

SUBDIVISION & SITE CONSTRUCTION
PLAN GENERAL NOTES

ALL MATERIALS AND CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION'S STANDARDS AND SPECIFICATIONS.

LAND USE PERMITS (CE-7P) MUST BE OBTAINED FROM THE VIRGINIA DEPARTMENT OF TRANSPORTATION PRIOR TO BEGINNING ANY CONSTRUCTION WITHIN THE EXISTING STATE MAINTAINED RIGHT-OF-WAY (INCLUDING ACCESS).
VDOT IS TO RECEIVE WRITTEN NOTIFICATION 48 HOURS PRIOR TO COMMENCING WITH INITIAL CONSTRUCTION ACTIVITIES WITHIN SAID RIGHT-OF-WAYS.

THE CONTRACTOR SHALL VERIFY THE ELEVATIONS OF ALL POINTS OF CONNECTION OR PROPOSED WORK TO EXISTING CURBS, SANITARY LINES, WATER LINES, ETC., PRIOR TO CONSTRUCTION.

UPON THE DISCOVERY OF SOILS THAT ARE UNSUITABLE FOR FOUNDATIONS, SUBGRADES, OR OTHER ROADWAY CONSTRUCTION PURPOSES, THE CONTRACTOR SHALL IMMEDIATELY CONTACT A GEOTECHNICAL ENGINEER AND VDOT. THESE AREAS SHALL BE EXCAVATED BELOW PLAN GRADE AS DIRECTED BY THE GEOTECHNICAL ENGINEER, BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED IN ACCORDANCE WITH CURRENT VDOT SPECIFICATIONS.

ALL STORM SEWER DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH VDOT STANDARDS AND SPECIFICATIONS.

IF PRE-CAST DRAINAGE UNITS ARE TO BE USED, VDOT SHALL BE NOTIFIED AND THE MANUFACTURER SHALL SUBMIT DRAWING DETAILS FOR REVIEW. CERTIFICATION AND VDOT STAMP WILL BE REQUIRED ON ALL UNITS.

ALL CONCRETE SHALL BE CLASS A3-AE (AIR ENTRAINED 3,000 PSI).

ALL ENTRANCES ARE TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH CURRENT VDOT STANDARDS. RESIDENTIAL LOT ACCESS SHALL BE PROVIDED PER THE FOLLOWING CRITERIA:

- a) ALL DRIVEWAY ENTRANCE CULVERTS ARE TO BE 15" DIAMETER X 20' LONG PIPE AND SHALL CONFORM TO PE-1 PRIVATE ENTRANCE STANDARDS UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER. NO ENTRANCE CULVERTS ARE TO BE INSTALLED WITHIN FIVE (5) FEET OF A PROPERTY CORNER.
- b) VDOT STANDARD CG-9D ENTRANCES SHALL BE INSTALLED IN CURB AND GUTTER NEIGHBORHOODS. THE SAWCUTTING REMOVAL OF THE STANDING CURB IS UNACCEPTABLE WHEN INSTALLING AN ENTRANCE ON EXISTING CURB AND GUTTER.

THE DEVELOPER IS RESPONSIBLE FOR FURNISHING AND INSTALLING STOP SIGNS AT STREET INTERSECTIONS.

CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON PLAN. IF THERE APPEARS TO BE A CONFLICT, AND/OR UPON DISCOVERY OF ANY UTILITY SHOWN ON THIS PLAN, CALL MISS UTILITY OF CENTRAL VIRGINIA AT 1-800-552-7001. THE DEVELOPER SHALL BE RESPONSIBLE FOR THE RELOCATION OF ANY UTILITY WITHIN EXISTING AND/OR PROPOSED RIGHT-OF-WAY REQUIRED BY THE DEVELOPMENT.

ALL STREETLIGHTS SHALL BE LOCATED A MINIMUM OF 9.5' FROM THE EDGE OF PAVEMENT ON CURB AND GUTTER STREETS AND/OR LOCATED A MINIMUM OF 5.5' BEHIND THE DITCH LINE ON OPEN DITCH STREETS.

CASING SLEEVES SHALL BE PLACED AT ALL ROAD CROSSINGS FOR GAS, POWER, TELEPHONE AND CABLE TV SERVICES TRUNK LINES.

THE INSTALLATION OF SEWER, WATER, AND GAS MAINS (INCLUDING SERVICES LATERALS AND SLEEVES) SHALL BE COMPLETED PRIOR TO PLACEMENT OF AGGREGATE BASE COURSE. PERMITS ARE REQUIRED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL UTILITIES TO REMAIN IN-PLACE AFTER STREET ACCEPTANCE.

ALL ROADSIDE DITCHES SHOWN AS PAVED ON PLANS ARE TO BE PAVED IN ACCORDANCE WITH THE TYPICAL SECTION AS SHOWN ON THE PLANS. GENERALLY, ALL DITCHES WITH SLOPES EXCEEDING 5% OR LESS THAN 0.75% SHALL BE PAVED UNLESS OTHERWISE SPECIFIED BY THE RESIDENT ENGINEER. ANY ADDITIONAL PAVING OF THE DITCHES, OTHER THAN THOSE SHOWN ON THE ROAD PLANS WILL BE DETERMINED PRIOR TO ACCEPTANCE OF THE ROADS INTO THE VDOT SECONDARY ROAD SYSTEM.

A PRIME COAT SEAL BETWEEN THE AGGREGATE BASE AND BITUMINOUS CONCRETE WILL BE REQUIRED AT A RATE OF 0.30 GALLONS PER SQUARE YARD (REC-250 PRIME COAT) PER VDOT STANDARDS AND SPECIFICATIONS.

THE SCHEDULING OF AGGREGATE BASE INSTALLATION AND SUBSEQUENT PAVING ACTIVITIES SHALL ACCOMMODATE FORECAST WEATHER CONDITIONS PER SECTION 315 OF THE ROAD AND BRIDGE SPECIFICATIONS.

ALL VEGETATION AND ORGANIC MATERIAL IS TO BE REMOVED FROM THE RIGHT-OF-WAY LIMITS PRIOR TO CONDITIONING OF THE SUBGRADE.

CERTIFICATION AND SOURCE OF MATERIALS ARE TO BE SUBMITTED TO VDOT FOR ALL MATERIALS AND BE IN ACCORDANCE WITH THE ROAD AND BRIDGE SPECIFICATIONS AND ROAD AND BRIDGE STANDARDS.

DRY GUTTER IS NOT ALLOWED IN VDOT RIGHT OF WAY.

THE NECESSITY AND LOCATIONS FOR ADDITIONAL VDOT STANDARD UNDERDRAINS TO BE DETERMINED AT TIME OF SUBGRADE INSPECTION.

VDOT SHALL BE PROVIDED DOCUMENTATION THAT ALL IN-PLACE PAVEMENTS MEET OR EXCEED THE APPROVED PAVEMENT DESIGN THICKNESS PRIOR TO STATE ACCEPTANCE.

THE FOLLOWING ARE GENERAL PROVISIONS FOR MISCELLANEOUS CONSTRUCTION STANDARDS AS REQUIRED BY SECTION 203.00 OF THE COUNTY OF ROANOKE PUBLIC STREET AND PARKING DESIGN STANDARDS AND SPECIFICATIONS, LATEST EDITION.

THE CONSTRUCTION MATERIALS AND METHODS USED FOR THIS SECTION SHALL CONFORM TO THE CURRENT VIRGINIA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE SPECIFICATIONS.

ALL GRADING AND UTILITY CONSTRUCTION WITHIN THE RIGHT-OF-WAY MUST BE COMPLETED AND APPROVED BY THE COUNTY PRIOR TO INSTALLING THE FINAL SURFACE ON THE STREET.

THE DEVELOPER WILL BE RESPONSIBLE FOR INSTALLING ALL DRIVEWAY ENTRANCES TO THE RIGHT-OF-WAY LINE PRIOR TO ACCEPTANCE BY ROANOKE COUNTY AND THE VIRGINIA DEPARTMENT OF TRANSPORTATION.

ALL DRIVEWAY ENTRANCES ACROSS A PAVED DITCH SHALL CONSIST OF STANDARD CONCRETE DRIVEWAY SLAB, SEE SECTION 207.09

GENERAL UTILITY NOTES

- SUPPLY AND INSTALL ALL MATERIALS AND METHODS FOR WATERLINES, SANITARY SEWERS AND STORM DRAINAGE IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF WVWA AND THE VIRGINIA DEPARTMENT OF TRANSPORTATION "ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS", LATEST EDITION.
- OBTAIN ALL REQUIRED PERMITS AND NOTIFY APPROPRIATE OFFICIALS 48 HOURS PRIOR TO COMMENCEMENT OF WORK. OBTAIN INFORMATION FROM WVWA CONCERNING PERMITS AND CONNECTIONS TO EXISTING LINES.
- ALL WORK SHALL BE SUBJECT TO INSPECTION BY ROANOKE COUNTY. NOTIFY APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF WORK.
- SITE SHALL BE TO SUB GRADE PRIOR TO INSTALLATION OF UTILITIES. ALL UTILITIES SHALL BE IN PLACE PRIOR TO PLACEMENT OF PAVEMENT BASE MATERIAL.
- USE SELECT MATERIAL FREE FROM FROST, LARGE CLODS, STONES, AND DEBRIS FOR BACKFILL FROM THE BOTTOM OF THE TRENCH TO TWELVE (12) INCHES ABOVE THE PIPE.
- MINIMIZE ANY DISTURBANCE TO EXISTING WATER SERVICE, SEWER LINES OR ANY OTHER UTILITY DURING CONSTRUCTION AND PROVIDE QUALITY WORKMANSHIP.
- MAKE ALL PIPE JOINTS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE COUNTY'S SPECIFICATIONS. MAKE JOINTS BETWEEN DIFFERENT PIPE MATERIALS WITH STANDARD FITTINGS MANUFACTURED FOR THE PURPOSE.
- MAINTAIN ALL WATER LINES AT TEN (10) FEET HORIZONTAL SEPARATION FROM SEWER LINES AND MANHOLES; MEASURE THE DISTANCE EDGE-TO-EDGE. WHEN LOCAL CONDITIONS PREVENT THE DESIRED HORIZONTAL SEPARATION, THE WATERLINE MAY BE LAID CLOSER TO THE SEWER OR MANHOLE PROVIDED THAT THE BOTTOM OF THE WATERLINE SHALL BE AT LEAST EIGHTEEN (18) INCHES ABOVE THE TOP OF THE SEWER. WHERE THIS VERTICAL SEPARATION CANNOT BE OBTAINED, CONSTRUCT THE SEWER OF AWWA APPROVED WATER PIPE AND PRESSURE TREAT IN PLACE PRIOR TO BACKFILLING. THE SEWER MANHOLE SHALL BE OF WATERTIGHT CONSTRUCTION TESTED IN PLACE.
- SEWER AND WATER TAPS SHALL BE LOCATED BY THE CONTRACTOR AND MADE BY THE WESTERN VIRGINIA WATER AUTHORITY.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS WHERE UTILITIES ENTER THE BUILDING.
- PRIOR TO COMMENCING WITH ANY UNDERGROUND PIPE CONSTRUCTION OF GRADING (EXCAVATION), THE GENERAL CONTRACTOR SHALL CALL MISS UTILITY OF VIRGINIA (TOLL FREE 1-800-552-7001) AT LEAST 48 HOURS PRIOR TO COMMENCING. THE G.C. IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO ANY UTILITY, PUBLIC OR PRIVATE, AS A RESULT OF NOT CONTACTING MISS UTILITY AND SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER/DEVELOPER.
- EXISTING UTILITY LOCATIONS SHOWN ARE A RESULT OF FIELD SURVEYS, AND AVAILABLE RECORDS. LOCATIONS ARE APPROXIMATE. GENERAL CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE ENGINEER IMMEDIATELY IF: 1) ANY LOCATION OR ELEVATION IS DIFFERENT FORM THAT SHOWN ON THE PLANS. 2) IF THERE APPEARS TO BE ANY CONFLICT. UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS. G.C. SHALL CALL "MISS UTILITY" OF VIRGINIA.
- PROVIDE A CONTINUOUS AND UNIFORM BEDDING IN THE TRENCH FOR ALL PIPE. REMOVE STONES AND ROCKS FOUND IN THE TRENCH FOR A DEPTH OF AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE AND TAMP SELECT FILL BEDDING PROVIDED. AFTER THE PIPE HAS BEEN PLACED IN THE TRENCH, BACKFILL THE TRENCH WITH SELECT MATERIAL, THOROUGHLY COMPACT TO 90% (95% UNDER PAVEMENT OR CONCRETE SLAB) OF THE STANDARD PROCTOR (ASTM D-698) USING CARE NOT TO DAMAGE THE PIPE. USE VDOT STANDARD PB-1 TRENCH FOR STORM SEWER AND UB-1 FOR SANITARY SEWER AND WATER.
- PLACE BACKFILL FOR ALL UTILITIES IN ACCORDANCE WITH THE COUNTY'S SPECIFICATIONS, AND THE FOLLOWING CRITERIA: 1) BACKFILL NO TRENCH UNTIL AUTHORIZED BY THE COUNTY. MATERIALS USED FOR BACKFILL FROM THE BOTTOM OF THE TRENCH TO TOP OF THE PIPE SHALL BE CRUSHER RUN, OR APPROVED EQUAL MATERIAL, THOROUGHLY AND CAREFULLY COMPACT THE BACKFILL MATERIAL. 2) COMPACT BACKFILL BY MECHANICAL TAMPING THROUGHOUT THE DEPTH OF THE TRENCH TO INSURE A SUITABLE SUBBASE ACCEPTABLE TO THE ROAD ENGINEER. IF THE MATERIAL TAKEN FROM THE DITCH IS NOT SUITABLE FOR BACKFILLING, REMOVE IT AND USE AN ACCEPTABLE MATERIAL FOR BACKFILLING THE TRENCH.
- IN AREAS OF WATER LINE CONSTRUCTION, GRADES SHALL BE WITHIN SIX (6) INCHES OF FINAL GRADE PRIOR TO BEGINNING CONSTRUCTION.
- THE WESTERN VIRGINIA WATER AUTHORITY COUNTY SHALL MAKE ALL CONNECTIONS TO EXISTING WATER MAINS.
- THE CONTRACTOR SHALL INSTALL ALL WATER SERVICE CONNECTIONS AND METER BOXES.
- WATER AND SANITARY SEWER PIPES AND FITTINGS SHALL BE POLYVINYL IN ACCORDANCE WITH WVWA SPECIFICATIONS AND STANDARDS.
- CONNECT PIPE TO MANHOLES THROUGH PRE CAST OPENINGS AND JOIN WITH EITHER A FLEXIBLE BOOT ADAPTER OR A PIPE SEAL GASKET.
- MAKE RESIDENTIAL SERVICE CONNECTIONS WITH A FOUR (4) INCH PIPE THROUGH A WYE OR TEE-WYE BRANCH FITTING AND SHALL BE INSTALLED ON A MINIMUM GRADE OF ONE-QUARTER (1/4") INCH PER ONE (1) FOOT FROM THE SEWER PIPE OR MANHOLE TO THE PROPERTY OR EASEMENT LINE WHERE A CLEANOUT SHALL BE PLACED AND THE SERVICE LATERAL PLUGGED / CAPPED UNTIL EXTENSION.
- FIELD MARK FUTURE SERVICE CONNECTIONS BY A TREATED, SOLID WOODED (2"x4") 23. MARKER THREE (3) FEET LONG SET VERTICALLY PLUMB WITH THE END OF THE CAPPED EXTENSION. PAINT THE TOPS OF THE MARKERS YELLOW AND SET FLUSH WITH THE FINISHED GRADE. SHOW THE LOCATION AND INVERT DEPTH OF THE SERVICE CONNECTION ON THE AS-BUILT PLANS.

STANDARD VIRGINIA DEPARTMENT
OF TRANSPORTATION NOTES

QUALITY CONTROL

STREETS SHALL BE GRADED AND PAVED IN ACCORDANCE WITH THE MOST CURRENT VERSIONS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S ROAD AND BRIDGE SPECIFICATIONS AND ROAD AND BRIDGE STANDARDS. ALL STRUCTURAL COMPONENTS ERRECTED WITHIN A PROPOSED VDOT RIGHT OF WAY SHALL BE INSTALLED IN ACCORDANCE WITH THE MOST CURRENT VERSIONS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S ROAD AND BRIDGE SPECIFICATIONS AND ROAD AND BRIDGE STANDARDS. ALL MATERIALS USED WITHIN A PROPOSED VDOT RIGHT OF WAY SHALL BE TESTED IN ACCORDANCE WITH STANDARD POLICIES. THE DEVELOPER MUST CONTACT THE OFFICE OF THE RESIDENT ENGINEER, PRIOR TO BEGINNING ANY CONSTRUCTION TO OBTAIN THE INSPECTION AND TESTING PROCEDURES. THE DEVELOPER SHALL PROVIDE TEST REPORTS, AT THE DEVELOPER'S EXPENSE, FROM INDEPENDENT LABORATORIES. THE RESIDENT ENGINEER MUST APPROVE ALL INDEPENDENT LABORATORIES.

UTILITIES

ALL NECESSARY UTILITY LATERALS ALONG WITH PROVISIONS FOR CONDUIT (I.e. WATER, SEWER, STORM, GAS AND TELEPHONE) SHALL BE CONSTRUCTED PRIOR TO PLACEMENT OF THE BASE MATERIAL.

GAS OR PETROLEUM TRANSMISSION LINES WILL NOT BE PERMITTED WITHIN THE PAVEMENT (BACK OF CURB TO BACK OF CURB) OR THE SHOULDER ELEMENT. SERVICE LATERALS CROSSING THE PAVEMENT, AND PIPE LINES LOCATED OUTSIDE THE PAVEMENT BUT INSIDE THE RIGHT OF WAY SHALL BE CONSTRUCTED IN CONFORMITY WITH ASA B 31.8 SPECIFICATIONS AND SAFETY REGULATIONS. DISTRIBUTION LINES WITH PRESSURES LESS THAN 120 psi ARE UNAFFECTED BY THE ABOVE.

PERMITS ARE REQUIRED FOR ANY UTILITIES WITHIN THE PROPOSED STREET RIGHT OF WAY PRIOR TO ACCEPTANCE OF THE STREET INTO THE SECONDARY HIGHWAY SYSTEM. HOWEVER, ANY RIGHT, TITLE OR INTEREST GRANTED TO A UTILITY COMPANY FOR PLACEMENT OF UTILITIES (E.G. POWER, TELEPHONE, ETC) IN PROPOSED STREETS MUST BE RELEASED PRIOR TO ACCEPTANCE OF THE STREET INTO THE SECONDARY SYSTEM.

DRIVEWAYS

PERMITS SHALL BE REQUIRED FOR ALL PRIVATE ENTRANCES CONSTRUCTED ON THESE STREET RIGHT-OF-WAY AFTER ACCEPTANCE OF THESE STREETS INTO THE SECONDARY HIGHWAY SYSTEM.

ALL DRIVEWAYS SHALL USE A VDOT STD. CG-9D CONCRETE ENTRANCE WITH A MAXIMUM WIDTH OF 18'. DRIVEWAYS SHALL BE LOCATED A MINIMUM OF 5' FROM A SIDE LOT LINE.

ALL PRIVATE ENTRANCES WITHIN THE RIGHT-OF-WAY SHALL NOT EXCEED EIGHT PERCENT (8%) MAXIMUM GRADE.

PARKING REQUIREMENTS FOR THE LOTS CREATED HEREON SHALL CONFORM TO THE COUNTY OF ROANOKE ZONING ORDINANCE AS SPECIFIED IN SEC. 30-91-9. THIS SECTION STATES THAT FOR EACH SINGLE FAMILY DWELLING, TWO (2) OFF-STREET SPACES SHALL BE PROVIDED.

EROSION CONTROL AND LANDSCAPING

CARE SHALL BE TAKEN DURING CONSTRUCTION TO PREVENT EROSION, DUST AND MUD FROM DAMAGING ADJACENT PROPERTY, CLOGGING DITCHES, TRACKING PUBLIC STREETS AND OTHERWISE CREATING A PUBLIC NUISANCE TO SURROUNDING AREAS.

THE ENTIRE CONSTRUCTION AREA INCLUDING DITCHES, CHANNELS, BACK OF CURBS AND/OR PAVEMENT IS TO BE BACKFILLED AND SEEDED AT THE EARLIEST POSSIBLE TIME AFTER FINAL GRADING.

THE ROAD WILL BE REVIEWED DURING CONSTRUCTION FOR THE NEED OF PAVED DITCHES. IF EROSION IS ENCOUNTERED IN ANY DRAINAGE EASEMENT, IT WILL BE THE RESPONSIBILITY OF THE DEVELOPER TO SOD, RIP RAP, GROUT, PAVE OR AS DIRECTED BY THE RESIDENT ENGINEER TO CORRECT THE PROBLEM.

ALL VEGETATION AND OVERBURDEN SHALL BE REMOVED FROM SHOULDER TO SHOULDER PRIOR TO CONDITIONING (CUTTING AND/OR PREPARATION) OF THE SUB-GRADE.

CONNECTIONS TO STATE MAINTAINED ROADS

WHILE THESE PLANS HAVE BEEN APPROVED, SUCH APPROVAL DOES NOT EXEMPT CONNECTIONS WITH EXISTING STATE-MAINTAINED ROADS FROM CRITICAL REVIEW DURING THE LIFETIME OF THE PERMIT. FIELD REVISIONS TO THE PERMIT SHALL BE MADE AS NEEDED IN ORDER TO ACCOMMODATE THE PREVAILING CONDITIONS AND TO ACCOMMODATE SAFETY ACCOMPANIMENTS SUCH AS TURNING LANES.

INSPECTION

AN INSPECTOR WILL NOT BE FURNISHED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION EXCEPT FOR PERIODIC PROGRESS INSPECTIONS, THE ABOVE MENTIONED FIELD REVIEWS AND CHECKING FOR REQUIRED STONE DEPTHS. THE DEVELOPER WILL BE REQUIRED TO POST A SURETY TO GUARANTEE THE ROAD FREE OF DEFECTS FOR ONE YEAR AFTER ACCEPTANCE BY THE DEPARTMENT OF TRANSPORTATION.

STREET MAINTENANCE

THE STREETS MUST BE PROPERLY MAINTAINED UNTIL ACCEPTANCE. WHEN ALL REQUIREMENTS HAVE BEEN MET FOR ACCEPTANCE, A FINAL INSPECTION WILL BE MADE TO DETERMINE THAT THE STREET HAS BEEN PROPERLY MAINTAINED.

UNDERGROUND UTILITIES

THE CONTRACTOR SHALL VERIFY BY CONTACTING "MISS UTILITY", THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT THE SITE ENGINEER IMMEDIATELY IF LOCATIONS OR ELEVATIONS IS DIFFERENT FROM THAT SHOWN ON THE PLANS. IF THERE APPEARS TO BE A CONFLICT, OR UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLAN, CALL "MISS UTILITY".

REVISIONS OF SPECIFICATIONS AND STANDARDS

APPROVAL OF THESE PLANS IS BASED ON THE ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS IN EFFECT AT THE TIME OF APPROVAL. HOWEVER, UNTIL COMPLETION OF THE ROADWAY AND ACCEPTANCE BY THE DEPARTMENT, THIS DEVELOPMENT IS SUBJECT TO ALL FUTURE REVISIONS OF THE ROAD AND BRIDGE SPECIFICATIONS AND STANDARDS.

TRAFFIC CONTROL DEVICES

THE DEVELOPER SHALL BE RESPONSIBLE FOR INSTALLATION OF ALL TRAFFIC CONTROL DEVICES, STOP SIGNS, YIELD SIGNS, SPEED LIMIT SIGNS, PAVEMENT STRIPING, ETC., REQUIRED BY THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE DEVELOPER SHALL BE RESPONSIBLE OF REINSTALLING AND MAINTAINING ALL TRAFFIC CONTROL DEVICES REQUIRED AS PART OF THIS DEVELOPMENT UNTIL THE STREETS ARE TAKEN INTO THE SECONDARY SYSTEM. ALL TRAFFIC CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE "MUTCD".

STORM DRAINAGE

INSTALLATION OF ALL STORM PIPES/CULVERTS LOCATED WITHIN VDOT RIGHT-OF-WAY AND EASEMENTS SHALL CONFORM TO THE 2001 VDOT ROAD AND BRIDGE STANDARDS. ALL STORM PIPE SHALL BE CLASS III REINFORCED CONCRETE (RCP) UNLESS OTHERWISE NOTED.

STEPS ARE REQUIRED IN STRUCTURES EXCEEDING 4.0' IN DEPTH (VDOT STD. 106.09) AND SAFETY SLABS ARE REQUIRED IN STRUCTURES EXCEEDING 12.0' IN DEPTH (VDOT STD. 106.14).

INLET SHAPING FOR THOSE STRUCTURES IDENTIFIED ON THE STORM DRAINAGE PROFILES MUST CONFORM TO VDOT STANDARD 106.08 IS-1, INLET SHAPING.

FIELD CHANGES

DESIGN CHANGES, SPECIFIED MATERIAL CHANGES AND/OR FIELD CHANGES FROM THE APPROVED PLANS MUST BE SUBMITTED TO THE SALEM VDOT RESIDENCY OFFICE PRIOR TO PROCEEDING WITH THE WORK. A LETTER OF EXPLANATION SHALL ACCOMPANY THE REVISED DESIGN PLANS AND/OR ENGINEERING CALCULATIONS, WHICH MUST BE SUBMITTED TO VDOT FOR REVIEW AND APPROVAL BY THE RESIDENCY OFFICE OR PERMIT OFFICE.

ANY DEVIATIONS BETWEEN THE PROPOSED CONTOURS AND PLANS AND THE AS-BUILT CONDITIONS MAY REQUIRE ADDITIONAL DRAINAGE STRUCTURES AND/OR EASEMENTS.

GENERAL NOTES

PROVIDE NEW MATERIALS AND WORKMANSHIP IN CONFORMANCE WITH ALL APPLICABLE CODES, STATE AND FEDERAL LAWS, LOCAL ORDINANCES, INDUSTRY STANDARDS, AND OTHER CRITERIA WHICH WOULD NORMALLY APPLY TO WORK OF THIS NATURE. NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERING A CONFLICT IN CODES, ORDINANCES, STANDARDS, OR OTHER CRITERIA. APPLICABLE CODES AND STANDARDS INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, THE FOLLOWING:

- BASIC CODES
- ROANOKE COUNTY
- VDOT - VIRGINIA DEPARTMENT OF TRANSPORTATION, ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS
- VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS AND HANDBOOK
- OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
- ASTM - AMERICAN SOCIETY FOR TESTING AND MATERIALS
- WVWA - WESTERN VIRGINIA WATER AUTHORITY

OBTAIN EACH REQUIRED PERMIT PRIOR TO COMMENCING THAT PART OF THE WORK. PAY REQUIRED FEES.

NOTIFY THE ENGINEER IMMEDIATELY UPON DISCOVERY OF CONDITIONS WHICH DIFFER FROM THOSE SHOWN ON THE PLANS.

COMPLY WITH LOCAL ORDINANCES FOR BURNING OF WASTE. TRANSPORT WASTE MATERIALS AND UNSUITABLE MATERIALS FROM OWNER'S PROPERTY.

VERIFY THE LOCATION AND ELEVATION OF EACH EXISTING UNDERGROUND UTILITY IN AREAS OF CONSTRUCTION PRIOR TO COMMENCEMENT OF WORK. CONTACT ENGINEER IMMEDIATELY IF THERE APPEARS TO BE A CONFLICT, UPON DISCOVERY OF A UTILITY WHICH IS NOT SHOWN, AND UPON DISCOVERY OF A LOCATION OR ELEVATION WHICH DIFFERS FROM THAT SHOWN. TO LOCATE UTILITIES, CALL "MISS UTILITY", 1-800-552-7001. UTILITY LOCATIONS SHOWN ARE THE RESULT OF A COMBINATION OF FIELD LOCATION AND EXISTING INFORMATION. LOCATIONS ARE APPROXIMATE.

REPAIR ALL DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE, CAUSED AS A RESULT OF CONSTRUCTION ACTIVITIES, AT NO ADDITIONAL COST TO OWNER.

NOTIFY OWNERS OF UTILITIES IN AREAS OF CONSTRUCTION PRIOR TO COMMENCEMENT OF EXCAVATION.

ANY SITE DEVELOPMENT OUTSIDE THE SCOPE OF THIS PLAN WILL REQUIRE ADDITIONAL PLAN REVIEW AND APPROVAL.

ADDITIONAL DRAINAGE STRUCTURES AND EASEMENTS MAY BE REQUIRED BY THE VIRGINIA DEPARTMENT OF TRANSPORTATION DUE TO ANY DEVIATIONS BETWEEN THE APPROVED PROPOSED CONTOURS AND THE AS-BUILT CONDITIONS OR ANY OTHER TOPOGRAPHIC CHANGES.

ANY SIGNAGE PROPOSED FOR THIS DEVELOPMENT SHALL COMPLY WITH THE APPLICABLE REGULATIONS OF THE COUNTY OF ROANOKE ZONING ORDINANCE, SPECIFICALLY SEC. 30-93. A SEPARATE SIGN PERMIT AND APPROVAL WILL BE REQUIRED.

ANY NEW ALIGNMENTS, CHANGES IN GRADES, ALTERNATIVE PIPE SIZES OR MANHOLES WILL REQUIRE A NEW SET OF PLANS STAMPED BY THE CONSULTING ENGINEER. COUNTY ENGINEER WILL REVIEW PLANS WITHIN THREE DAYS OF SUBMITAL. PLAN SHEETS CAN BE 8.5 X 11 IF THE INFORMATION IS LEGIBLE.

NO CONSTRUCTION/FIELD CHANGES WITHOUT APPROVAL OF THE CONSULTING ENGINEER AND ROANOKE COUNTY.

ENGINEERS NOTES

BALZER AND ASSOCIATES, INC. ASSUMES NO RESPONSIBILITY FOR ADEQUACY OF PLANS OR FOR INFORMATION ON PLANS UNTIL SUCH PLANS HAVE BEEN APPROVED BY THE REQUIRED PUBLIC AGENCIES.

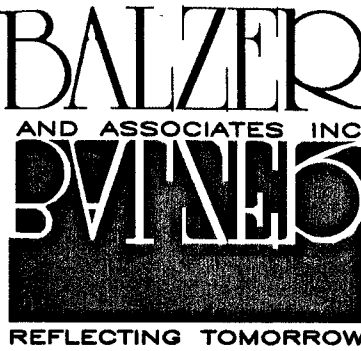
ANY WORK COMMENCED ON A PROJECT PRIOR TO PLAN APPROVAL IS AT SOLE RISK OF THE DEVELOPER.

BALZER AND ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR THE CONTRACTORS FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE PLANS OR WILL NOT BE RESPONSIBLE FOR ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, OR THEIR AGENTS OR EMPLOYEES, OR OF ANY OTHER PERSONS PERFORMING PORTIONS OF THE WORK.

SOURCE OF TOPOGRAPHIC INFORMATION IS AERIAL MAPPING, PROVIDED BY LUMSDEN ASSOCIATES, DATED 1994 AND SUPPLEMENTED BY FIELD SURVEYS PROVIDED BY BALZER AND ASSOCIATES, INC.

ABBREVIATIONS

AHFH	ARROW HEAD TOP OF FIRE HYDRANT	MIN	MINIMUM
APPROX	APPROXIMATE	MON	MONUMENT
ASPH	ASPHALT	NBL	NORTH BOUND LANE
BC	BOTTOM OF CURB	PR	PRIVATE
BIT	BITUMINOUS	PROP	PROPOSED
BLDG	BUILDING	PUE	PUBLIC UTILITY EASEMENT
BLK	BLOCK	PVMT	PAVEMENT
BM	BENCHMARK	R	RADIUS
BW	BOTTOM OF WALL	REQD	REQUIRED
C&G	CURB & GUTTER	R.O.W.	RIGHT-OF-WAY
CB	CINDER BLOCK	RR	RAILROAD
CMP	CORRUGATED METAL PIPE	RT	RIGHT
CONC	CONCRETE	RYS	REAR YARD SETBACK
COR	CORNER	SAN	SANITARY
DBL	DOUBLE	SBL	SOUTH BOUND LANE
DEFL	DEFLECTION	SD	STORM DRAIN
DI	DRAINAGE EASEMENT	SECT	SECTION
DIA	DIAMETER	SE	SLOPE EASEMENT
ELEC	ELECTRIC	SS	SANITARY SEWER
ELEV	ELEVATION	SSE	SANITARY SEWER EASEMENT
ENTR	ENTRANCE	STA	STATION
EP	EDGE OF PAVEMENT	STD	STANDARD
EW	ENDWALL	STO	STORAGE
EXIST	EXISTING	SYS	SIDE YARD SETBACK
FDN	FOUNDATION	TBM	TEMPORARY BENCHMARK
FF	FINISHED FLOOR	TC	TOP OF CURB
FG	FINISH GRADE	TEL	TELEPHONE
GTD	GRADE TO DRAIN	TRANS	TRANSFORMER
HOA	HOMEOWNERS ASSOCIATION	TF	TOP OF WALL
		TYP	TYPICAL
		VERT	VERTICAL
		VDOT	VIRGINIA DEPARTMENT OF TRANSPORTATION
HPT	HIGH POINT	WBL	WEST BOUND LANE
INTX	INTERSECTION	WVWA	WESTERN VIRGINIA WATER
INV	INVERT		
IP	IRON PIN	YD	YARD
LEFT	LEFT		
MBL	MINIMUM BUILDING LINE		
MH	MANHOLE		



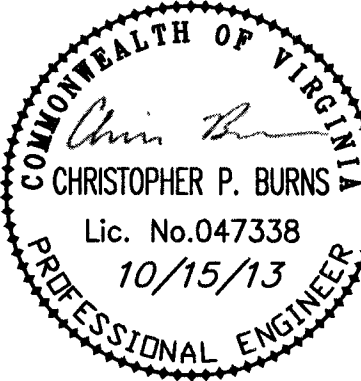
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Balzer and Associates, Inc.

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Roanoke, VA 24018
540-772-9580
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FAIRWAYS at HANGING ROCK

SECTION 4

GENERAL NOTES

CATAWBA DISTRICT
ROANOKE COUNTY, VIRGINIA

DRAWN BY C/PB

DESIGNED BY C/PB

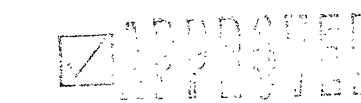
CHECKED BY BTC

DATE 8/16/2013

SCALE N/A

REVISIONS:

9/18/2013
9/23/2013
10/15/2013



SHEET NO.

C09

JOB NO. R0500377.04