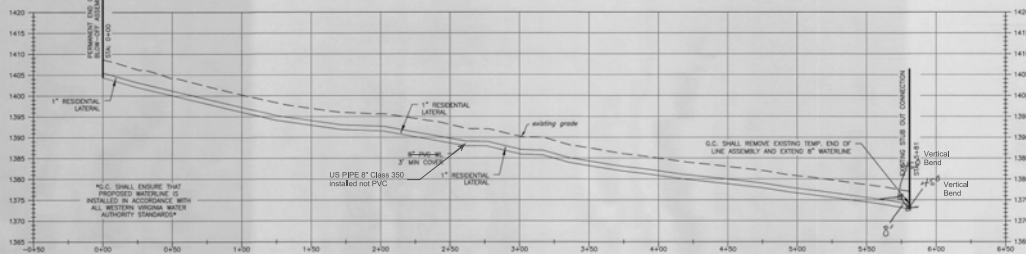


WATERLINE EXTENSION PROFILE



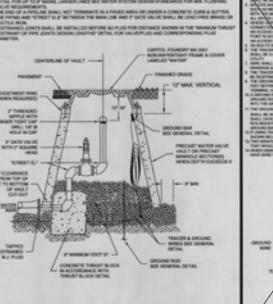
GENERAL UTILITY NOTES

- SUPPLY AND INSTALL ALL MATERIALS AND METHODS FOR WATERLINES, SANITARY SEWERS AND STORM DRAINAGE IN ACCORDANCE WITH THE SPECIFICATIONS AND REQUIREMENTS OF VIRGINIA 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 VMA CONCERNING PERMITS AND CONNECTIONS TO EXISTING LINES.
- ALL WORK SHALL BE SUBJECT TO INSPECTION BY REGIONAL COUNTY AND/OR VMA. NOTIFY APPROPRIATE OFFICIALS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF UTILITIES. ALL UTILITIES SHALL BE IN PLACE PRIOR TO PLACEMENT OF PAYMENT BASE MATERIAL.
- USE SELECT MATERIAL, FREE FROM ROOTS, LARGE CLODS, STONES, AND DEBRIS FOR BACKFILL. FROM THE BOTTOM OF THE TRENCH TO TWELVE (12) INCHES ABOVE THE PIPE.
- MAINTAIN ANY DISBURSANCE 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 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 MANHOLE. MEASURE THE DISTANCE EDGE-TO-EDGE. WITH LOCAL CONDITIONS PREVENT THE DESIRED HORIZONTAL SEPARATION, THE WATERLINE MAY BE LADDER TO THE SEWER OR MANHOLE PROVIDED THAT THE BOTTOM OF THE WATERLINE SHALL BE AT LEAST FORTY-FOUR (44) INCHES ABOVE THE TOP OF THE SEWER. WHERE THIS VERTICAL SEPARATION CANNOT BE OBTAINED, CONSTRUCT THE TRENCH OF ADEQUATE DEPTH TO ACCOMMODATE THE WATERLINE AND PLACE PIPE TO BACKFILLING. THE SEWER MANHOLE SHALL BE OF WATER TIGHT CONSTRUCTION AND TESTED IN ACCORDANCE WITH THE COUNTY SPECIFICATIONS.
- SEWER AND WATER TAPS SHALL BE LOCATED BY THE CONTRACTOR AND MADE AS BY THE WESTERN VIRGINIA WATER AUTHORITY.
- LOCATE AND UNDERGO VALVE VAULTS AND MANHOLES AFTER PAVING AND ADJUST TO FINAL GRADE, IF NECESSARY.
- REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS WHERE UTILITIES CROSS THE BOILING.
- PROVIDE TO COMMENCING WITH ANY UNDERGROUND PIPE CONSTRUCTION OF GRADING (EXCAVATIONS). THE GENERAL CONTRACTOR SHALL CALL MISS UTILITY OF VIRGINIA (TOLL FREE 1-800-525-7007) AT LEAST 48 HOURS PRIOR TO COMMENCING. THE E.C. IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY 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 ARE NOT GUARANTEED. LOCATIONS SHOWN ARE NOT TO BE CONSIDERED. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THE PLANS IN A FIELD SURVEY. PRIOR TO STARTING WORK, CONTACT THE ENGINEER IMMEDIATELY IF: 1) ANY LOCATION OR ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS, 2) IF THERE APPEARS TO BE ANY CONFLICT, UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLANS, E.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. TRANSDUCER CONTACT TO SOIL (OR UNDER PAVEMENT OR CONCRETE SLAB) OF THE STANDARD PROCTOR (ASTM D-1556) SHALL BE USED TO COMPACT THE PIPE. USE VIBRO STAMPING FOR TRENCH FOR STORM SEWER AND 8\"/>

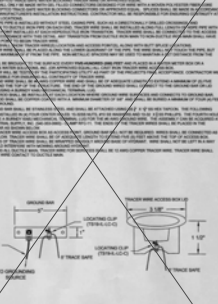
- IN AREAS OF WATER LINE CONSTRUCTION, GRADES SHALL BE WITHIN SIX (6) INCHES OF FINAL GRADE PRIOR TO BEGINNING CONSTRUCTION.
- MINIMUM COVER OVER WATER AND SANITARY SEWER LINES SHALL BE THREE (3) FEET.
- THE WESTERN VIRGINIA WATER AUTHORITY SHALL MAKE ALL CONNECTIONS TO EXISTING WATER MAINS. THE E.C. SHALL FURNISH ALL MATERIALS.
- THE CONTRACTOR SHALL INSTALL ALL WATER SERVICE CONNECTIONS AND WATER BODIES.
- WATER AND SANITARY SEWER PIPES AND FITTINGS SHALL BE POLYVINYL IN ACCORDANCE WITH VMA SPECIFICATIONS AND STANDARDS.
- CONNECT PIPE TO MANHOLES THROUGH PIPE CAST OPENINGS AND JOIN WITH EITHER A FLEXIBLE ROOF JOINT OR A PIPE SEAL GASKET.

MAKE RESIDENTIAL SERVICE CONNECTIONS WITH A FOUR (4) INCH PIPE THROUGH A WE-TIE-ON BRANCH FITTING AND SHALL BE INSTALLED ON A MINIMUM GRADE OF ONE-FOURTH (1/4) INCH PER FOOT 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.

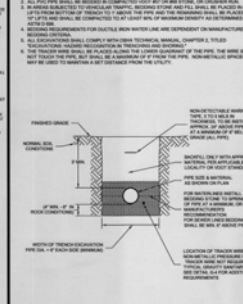
FIELD MAKE FUTURE SERVICE CONNECTIONS BY A TREATED, SLOD WOODS (T747) 2 1/2 INCHER THREE (3) FEET LONG SET VERTICALLY PLUMB WITH THE TOP OF THE CAPPED END DOWN. PLUMB THE TOPS OF THE MARKERS YELLOW AND SET PLUMB WITH THE FINISHED GRADE. SHOW THE LOCATION AND INVERT DEPTH OF THE SERVICE CONNECTION ON THE AS-BUILT PLANS.



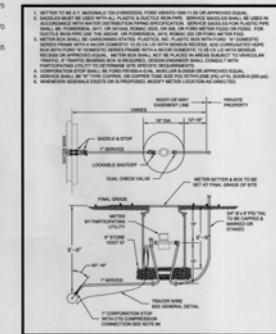
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL



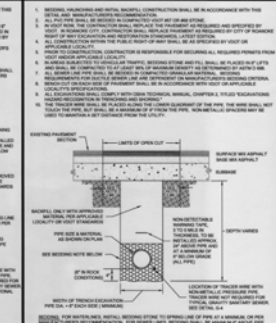
WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL



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WESTERN VIRGINIA REGIONAL - CONSTRUCTION DETAIL

BALZER & ASSOCIATES
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MCCALL RESIDENCE ESC PLAN
SITUATE CHECKER HILLS DRIVE
WATERLINE PROFILE AND DETAILS

DESIGNED BY: E.A.P.
CHECKED BY: E.A.P.
DATE: 08/08/2022
SCALE: N/A
REVISIONS:
NOTED THE C.D. COMMENTS
FURNISHED ACCESS AND UTILITY
REVISIONS:
ESC-6
PROJECT NO: 22000000