

GENERAL NOTES:

1. ALL UTILITIES EITHER SHOWN OR NOT SHOWN HAVE BEEN LOCATED BY THE ENGINEER FROM AVAILABLE RECORDS. THEIR LOCATIONS SHOULD BE CONSIDERED APPROXIMATE. THE CONTRACTOR HAS THE RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES, PRIOR TO CONSTRUCTION, TO HAVE EXISTING UTILITIES FIELD LOCATED.
2. ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.
3. PROPOSED CONTOURS SHOWN ARE FINISH GRADES AND READ TO TOP OF PAVEMENT AND FINISH DIRT GRADE.
4. TOPOGRAPHIC SURVEY MADE BY _____
Fox & Cole Consulting Engineers November, 1980
5. BOUNDARY SURVEY MADE BY _____
Fox & Cole Consulting Engineers November, 1980
6. SOIL BORINGS MADE BY Brouler & Associates
Consulting Engineers Denver 1980
7. TRENCH BACKFILLS WITHIN THE ROAD RIGHT-OF-WAY WILL BE WATER JETTED AND GRANULAR BACKFILL USED UNDER PAVED AREAS.
8. ALL FILLED PLACES UNDER PROPOSED STORM AND SANITARY SEWER LINES AND/OR PAVED AREAS INCLUDING TRENCH BACKFILLS WITHIN AND OFF THE ROAD RIGHT-OF-WAY SHALL BE COMPACTED TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE "MODIFIED AASHTO T-180 COMPACTION TEST" (ASTM D-1557). ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING AND BACKFILLING OPERATIONS.
9. ALL FILLED PLACES IN PROPOSED AND EXISTING ST. CHARLES COUNTY ROADS (HIGHWAYS) SHALL BE COMPACTED FROM THE BOTTOM OF THE FILL UP, TO 90% OF MAXIMUM DENSITY AS DETERMINED BY THE "STANDARD PROCTOR TEST AASHTO T-99, METHOD C, (ASTM D-698)". ALL TESTS SHALL BE VERIFIED BY A SOILS ENGINEER CONCURRENT WITH GRADING OPERATIONS.
10. EASEMENTS SHALL BE PROVIDED FOR STORM SEWERS, SANITARY SEWERS AND ALL UTILITIES ON THE RECORD PLAT. SEE RECORD PLAT FOR LOCATION AND SIZE OF EASEMENTS. THIS DOES NOT APPLY TO HOUSE LATERALS.
11. ALL CONSTRUCTION MATERIAL USED SHALL CONFORM TO CURRENT ST. CHARLES COUNTY STANDARDS.
12. ALL ROUGH GRADING SHALL BE WITHIN 0.2 FEET MORE OR LESS OF THOSE GRADES AS SHOWN ON THE GRADING PLAN.
13. NO SLOPE SHALL BE GREATER THAN 2:1 AND SHALL BE EITHER SODDED OR SEEDED AND MULCHED.
14. SHOULDERS TO BE SHAPED AND COMPACTED AS SOON AS PAVEMENT HAS SET AND FORMS ARE REMOVED.
15. GAS, WATER, AND OTHER UNDERGROUND UTILITIES SHALL NOT CONFLICT WITH THE DEPTH OR HORIZONTAL LOCATION OF EXISTING AND PROPOSED SANITARY AND STORM SEWERS INCLUDING HOUSE LATERALS.
16. NO GRADED AREA SHALL REMAIN UNDEVELOPED WITHOUT BEING SEEDED & MULCHED WHERE NECESSARY FOR SEDIMENTATION CONTROL.

SANITARY SEWER NOTES:

1. SEWER CONTRACTOR TO NOTIFY ENGINEER WHEN EXISTING SEWER MAIN AT MANHOLES F.N. 45 HAS BEEN EXCAVATED. ENGINEER WILL THEN VERIFY ± ELEVATION PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO START LAYING PIPE AT MANHOLES F.N. 45, AND LAY PIPE UPSTREAM.
3. ALL P.V.C. SANITARY PIPE TO BE SDR-35 OR EQUAL WITH CRUSHED STONE BEDDING UNIFORMLY GRADED BETWEEN 1" & 1/2" SIZE. THIS BEDDING SHALL EXTEND FROM 6" BELOW THE PIPE TO 7/10 OF THE PIPE DEPTH ABOVE THE BOTTOM OF THE PIPE.
4. ALL 8" MAIN AND 4" LATERALS TO BE CONSTRUCTED OF V.C.P. CONFORMING TO CURRENT A.S.T.M. STANDARD C-700 OR P.V.C. SDR-35 THICKWALL PIPE A.S.T.M. D-3034.
5. ALL MANHOLE FRAMES AND COVERS SHALL BE M.S.D. STANDARD FRAME AND COVER.
6. ALL LATERAL SEWER CONSTRUCTION METHODS TO CONFORM TO LATEST STANDARDS AND SPECIFICATIONS OF THE SEWER DISTRICT.
7. THE MIN. VERT. DISTANCE FROM THE LOW POINT OF A BASEMENT TO THE FLOWLINE OF A SANITARY SEWER AT THE CORRESPONDING HOUSE CONNECTION, SHALL NOT BE LESS THAN THE DIAMETER OF THE MAIN SEWER, PLUS 2 1/2 FEET.
8. CLEANOUTS SHALL BE LOCATED AT ALL HORIZONTAL AND VERTICAL CHANGES IN DIRECTION OF FLOW OF HOUSE LATERALS.
9. A CLEAN-OUT SHALL BE PROVIDED FOR ANY SANITARY LATERAL 100 FT. OR LONGER.
10. ALL FILL UNDER STORM OR SANITARY LINE CONSTRUCTED ABOVE ORIGINAL GRADE SHALL BE COMPACTED TO 90% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED AASHTO COMPACTION TEST (CURRENT A.S.T.M. SPECIFICATION D-1557).
11. TYPE "C" BEDDING PER M.S.D. STANDARDS IS REQUIRED FOR PIPES IN ROCK.
12. ALL SANITARY AND STORM SEWERS SHALL MEET ALL SPECIFICATIONS AND INSTALLATION REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY.

STORM SEWER NOTES:

1. ALL TRENCHES UNDER AREAS TO BE PAVED AND UNDER EXISTING PAVING SHALL BE GRANULARLY FILLED WITH ONE INCH MINUS CRUSHED WHITE ROCK ONLY. BACKFILL SHALL BE PLACED IN ACCORDANCE WITH ST. CHARLES COUNTY STANDARDS.
2. ALL CONCRETE PIPE SHALL CONFORM TO A.S.T.M. DESIGNATION C14-67 STANDARD STRENGTH EXCEPT AS NOTED, REINFORCED CONCRETE PIPE SHALL CONFORM TO A.S.T.M. DESIGNATION C76-67 CLASS II, EXCEPT AS NOTED.
3. ALL STORM SEWER STRUCTURES TO BE CONSTRUCTED IN ACCORDANCE WITH METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARDS.
4. ALL STORM SEWER PIPES WITHIN PROPOSED RIGHT-OF-WAY TO BE REINFORCED CONCRETE PIPE, (ASTM C76 CLASS II), UNLESS NOTED OTHERWISE ON THE PLANS.
5. ALL STANDARD STREET CATCH BASINS SHALL BE LOCATED 1 FOOT BEHIND CURB AND INLET TOP TO BE LOCATED 0.25 FT. ABOVE TOP OF CURB, OR IF SLIP FORM IS USED, 2 FOOT BEHIND THE CURB.
6. TYPE "C" BEDDING PER METROPOLITAN ST. LOUIS SEWER DISTRICT STANDARDS IS REQUIRED FOR PIPES IN ROCK.
7. CORRUGATED METAL PIPE SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR CORRUGATED CULVERT PIPE M36, AASHTO.

WATER LINE NOTE:

1. WATER LINES, VALVES, SLEEVES, METERS, AND ETC. SHALL MEET ALL SPECIFICATIONS AND INSTALLATION REQUIREMENTS OF THE LOCAL GOVERNING AUTHORITY. St. Charles Co. Water, Public Water Supply District No. 2
2. ALL CAST IRON PIPE FOR WATER MAINS SHALL CONFORM TO AWWA SPECIFICATION C-106 AND/OR C-108. THE CAST IRON FITTINGS SHALL CONFORM TO AWWA SPECIFICATION C-110. ALL RUBBER GASKET JOINTS FOR WATER CAST IRON PRESSURE PIPE AND FITTINGS SHALL CONFORM TO AWWA SPECIFICATION C-11.
3. ALL P.V.C. WATER PIPE SHALL HAVE A MINIMUM PRESSURE RATING OF PR-200 OR SDR-21.
4. ALL WATER HYDRANTS AND VALVES SHALL BE CAST IRON AND INSTALLED IN ACCORDANCE WITH PLANS AND DETAILS.

TEMPORARY TURNAROUND NOTES: (IF REQUIRED)

1. CONSTRUCT TEMPORARY TURNAROUND CENTERED AT STATION _____
2. CONSTRUCT 80' DIAMETER ASPHALT PAVEMENT OF 6" TYPE "X" ASPHALT BASE AND 2" TYPE "C" ASPHALT SURFACE.
3. AN AMOUNT OF MONEY SHALL BE PLACED IN PERMANENT ESCROW FOR THE REMOVAL OF TEMPORARY TURNAROUND, UNTIL TEMPORARY TURNAROUND HAS BEEN REMOVED.

CONSTRUCTION NOTES

Fox & Cole

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