QUANTITY + COST ESTIMATE **GENERAL NOTES** SEWER NOTES QUANTITY UNIT UNIT PRICE COST BONDABLE A minimum cover of three (3) feet is required over proposed lines. All construction methods and materials shall conform to the Construction CLEARING AND GRUBBING ACRES Standards and Specifications of Roanoke County and/or the Virginia EXCAVATION Contractor shall be responsible for locating and uncovering all CY Department of Transportation. manholes after paving. Manhole tops shall be adjusted to grade MBANKMENT CY. The contractor or developer is required to notify the Roanoke County Engineering Division in writing at least three (3) days prior to any All existing utilities may not be shown or may not be shown in the construction, including, but not limited to the following: URB INLET DIexact location. The contractor shall comply with State Water Works URB INLET DI-EACH Regulations, Section 12.05.03, where lines cross. A. Installation of approved erosion control devices B Clearing and grubbing C. Subgrade excavation House connections are to be made with 4" pipe installed at a minimum D. Installing storm sewers or culverts grade of 1/4 inch to 1 foot in R/W. MANHOLE MH-E. Setting curb and gutter forms Placing curb and gutter Laterals from manholes shall be PVC or Ductile Iron of sufficient MANHOLE MH-EACH G. Placing other concrete length to provide two (2) feet of bearing on natural ground. The H Placing gravel base transition from ductile iron to asbestos cement or concrete pipe I. Placing any roadway surface shall be made with an adapter coupling in R/W. J Installing water lines -IN. CONCRETE PIPE, CLASS III K Installing sanitary sewer lines All trenches in existing or future rights—of—way shall be compacted according to V.D.O.T. standards. -IN CONCRETE PIPE, CLASS 'V LIN. FT A pre-construction conference should be scheduled with the Roanoke County Engineering Division, to be held at least one (1) day prior Lines shall be staked prior to construction VICINITY MAP Measures to control erosion and siltation must be provided prior to -IN C M. CULVERT plan approva: Plan approval in no way relieves the developer or contractor of the responsibilities contained within the erosion and -IN CM. CULVERT siliation control policies WATER NOTES A permit must be obtained from the VDOT Residency Office, Roanoke County, prior to construction in the highway right—of-way Plan approval does not guarantee issuance of any permits by V.D.C.T. HOX CULVERT A minimum cover of three (3) feet is required over proposed lines LUMP SUM An approved set of pians and all permits must be available at the SURVEY INFORMATION Contractor shall be responsible for locating and uncovering valve PAVED DITCH LIN. FT. vaults after paving and adjustment to final grade if necessary. Field construction shall honor proposed drainage divides as shown All existing utilities may not be shown or may not be shown in the RIPRAP - CLASS S.F. Horizontal and vertical control surveys were performed in (year)_ exact location. The contractor shall comply with the State Water Works Regulations, Section 12.05.03, where lines cross All unsuitable material shall be removed from the construction limits SODDED SWALE of the roadway before placing embankment. S.Y. All trenches in existing or future highway right—of—ways shall be All elevations must be referenced to the National Geodetic Vertical Datum of 1929 compacted according to VDOT, standards. Pavement sections on approved plans are based on a minimum CBR of 10. CBR tests are to be performed by the engineer and submitted to V.D.O.T. - IN. CONCRETE ENDWALL EW-Lines shall be staked prior to construction Source of topographic mapping is___ and to the Roanoke County Engineering Division prior to placement. CBR values < 10 will require revised pavement sections Water main shall be minimum Class 52 Ductile Iron in accordance to AWWA C151 or DR-14 PVC in accordance with AWWA C-900. All roadside ditches or grades of more than 5 percent shall be paved -IN. END SECTION ES-EACH with cement concrete to the limits as indicated on the plans and as Boundary was performed by _____ Availability number _____ required at the field inspection. Location of guard rails shall be determined at a joint field inspection HEADER CURB & GUTTER CG-LIN. FT by the County and V.D.O.T The professional seal and signature below certifies the boundary survey and topographic **LEGEND** CURB & GUTTER CGmapping to be accurate and correct. LIN. FT All springs shall be capped and piped to the nearest storm sewer or EXISTING WATER LINE VALLEY GUTTER EACH natural watercourse. The pipe shall be 6 inch minimum diameter and OCAT OVERHEAD ELECTRIC AND TELEPHONE conform to VD.0 T Standard SB-1 CRAVEL BASE S.Y. OT ---- OVERHEAD TELEPHONE Standard street and traffic control signs shall be erected at each OE ----- OVERHEAD ELECTRIC intersection by the developer prior to final street acceptance. GRAVEL SHOULDER S.Y. SURFACE TREATMENT S.Y Construction debris shall be containerized in accordance with the Virginia Litter Control Act No less than one litter receptacle . -IN BIT. CONC .: TYPE B-S.Y. shall be provided on site. -IN BIT CONC: TYPE S-— SS — EXISTING SANITARY
SCWER LINE S.Y. -IN BASE MATERIAL C.Y The contractor shall provide adequate means of cleaning mud from SANITARY SEWER MAINING trucks and/or other equipment prior to entering public streets -IN SUBBASE MATERIAL BENCHMARK C.Y. It is the contractors responsibility to insure that the streets are in a clean, mud and dust free condition at all times STORM PIPE The developer and/or contractor shall supply all utility companies DROP INLET ==O=== RAFFIC BARRICADE EACH with copies of approved plans, advising them that all grading and FENCE WATER LINE installation shall conform to approved plans. LIN. FT. ים לי עדועדי POLE WATER LINE LIN. FT. Contractors shall notify utilities of proposed construction at least T Y CUY MPE two (2), but not more than ten (10) working days in advance. Area public utilities may be notified thru "Miss Utility". 1-800-552-7001. IRE HYDRANT ASSEMBLIES EACH TREE LINE BLOW OFFS W/VAULT, FRAME & COVER The developer or contractor shall supply the county with correct EACH SHRUBS As-Built plans before final acceptance -IN GATE VALVES, W/VAULT, FRAME & COVER TREE EACH PROFESSIONAL ENGINEER -IN GATE VALVES, W/VAULT, FRAME & COVER All work shall be subject to inspection by Roanoke County and/or EACH SEAL AND SIGNATURE MH. & S.S. TO BE ABANDONED Field corrections shall be approved by the Roanoke County Engineering PRP. S.S. PRP MH & S.S. LINE Division prior to such construction 8" SANITARY SEWER LIN. FT 100 year floodway and floodplain information shall be shown where COUNTY OF ROANOKE STANDARD MANHOLE W/FRAME & COVER EACH Grade stakes shall be set for all curb and gutter, culver, sanitary SAMPLING MANHOLE / PORT sewer and storm sewer. EACH OWNER/DEVELOPER, AM AWARE AS-BUILT PLANS INDEX MUDLICK INTERCEPTOR PHASE I LUMP SUM NAME OF DEVELOPMENT OF THE SITE DESIGN REQUIREMENTS IMPOSED BY SEWER LINE REPLACEMENT THIS SITE DEVELOPMENT PLAN AND OTHER APP-LICABLE COUNTY CODES. I HEREBY CERTIFY THAT I AGREE TO COMPLY WITH THESE REQUIREMENTS, STORMWATER MANAGEMENT WINDSOR HILLS MAGISTERIAL DISTRICT(S) LUMP SUM UNLESS MODIFIED IN ACCORDANCE WITH LOCAL LAW. ROANOKE COUNTY OWNER (name, address, telephone) 5204 BERNARD DRIVE 10% CONTINGENCY ROANOKE, VA. 24018 ROANOKE COUNTY DEVELOPER (name, address, telephone) 5204 BERNARD DRIVE ROANOKE ,VA. 24018 ESTIMATED TOTAL ROANOKE COUNTY ENGINEER, ARCHITECT OR SURVEYOR (name, address, telephone) 5204 BERNARD DRIVE I HEREBY CERTIFY THAT THE FOREGOING ESTIMATE REFLECTS THE CURRENT IMPROVEMENT COSTS OF THIS PROJECT. ROANOKE ,VA. 24018 TAX MAP NO(S) 77.05,77.09 BLOCK NO(S) _ PARCEL NO(S) SHEET 2 OF 10