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ENGINEERS NOTES

SPECTRUM DESIGN, PC ASSUMES NO RESPONSIBILITY FOR INFORMATION ON OR ADEQUACY OF THE PLANS UNTIL THEY HAVE BEEN APPROVED BY REQUIRED PUBLIC AUTHORITIES.

COMMENCEMENT OF ANY WORK ON THE PROJECT IS AT THE SOLE RISK OF THE OWNER/DEVELOPER.

GENERAL NOTES

STANDARDS: ALL MATERIALS AND METHODS SHALL COMPLY WITH THE APPLICABLE STANDARDS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT), VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (ESC HANDBOOK), COMMONWEALTH OF VIRGINIA DEPARTMENT OF HEALTH (VDH) AND/OR THE CITY OF ROANOKE, LATEST EDITIONS. RECOMMENDATIONS OF APPLICABLE MATERIALS MANUFACTURERS SHALL ALSO BE FOLLOWED AS PART OF THIS CONTRACT.

DEBRIS: CONSTRUCTION DEBRIS SHALL BE CONTAINERIZED IN ACCORDANCE WITH THE VIRGINIA LITTER CONTROL ACT. NO LESS THAN ONE LITTER RECEPTACLE SHALL BE PROVIDED ON SITE. ALL DAMAGED MATERIAL OR SURPLUS EXCAVATED MATERIAL NOT SUITABLE FOR USE AS FILL, BACKFILL OR TOPSOIL SHALL BECOME THE PROPERTY OF THE CONTRACTOR TO DISPOSE OF OFFSITE AS HE WISHES, WITHOUT INJURY TO THE OWNER OR ANY INDIVIDUAL.

ALL WORK WITHIN PUBLIC R/W SHALL ADHERE TO THE CITY OF ROANOKE EXCAVATION AND RESTORATION STANDARDS. COPIES OF THESE STANDARDS ARE AVAILABLE AT THE CITY OR ONLINE IN *.PDF FORMAT AT WWW.ROANOKEVA.GOV. SPECIFIC AREAS TO ADDRESS INCLUDE:
A. WIDTHS AND DEPTHS OF PAVEMENT RESTORATION INCLUDING EITHER REPLACEMENT OR MILL AND OVERLAY.
B. PAVEMENT MARKING REPLACEMENT OR ADDITIONS WHERE DISTURBED OR RELOCATED.
C. SIGNALIZED INTERSECTIONS: AFTER LOOP DETECTOR LOCATION BY MISS UTILITY, ALL LOOPS DISTURBED SHALL BE REPLACED OR REPAIRED WITHIN THREE BUSINESS DAYS.
D. SIGNS: SALVAGE SIGN PANELS AND HARDWARE RELOCATED DURING WORK. POSTS SHALL BE STEEL U-CHANNEL. COORDINATE WITH CITY TRANSPORTATION.
E. FORMS: PERMIT APPLICATION, PERMIT BOND, AND WORK LOCATION SHEET.

OBTAIN AND PAY FOR ALL REQUIRED PERMITS AND FEES TO PERFORM WORK WITHIN ALLEY AND PUBLIC RIGHT-OF-WAY.

OBTAIN AND PAY FOR ALL STREET OPENING PERMITS REQUIRED BY THE CITY FOR UTILITY OR RETAINING WALL INSTALLATIONS.

REFER TO ARCHITECTURAL DRAWINGS FOR CONCRETE SCORING PATTERNS.

CONTRACTOR TO SUPPLY CITY WITH TRAFFIC CONTROL PLAN PRIOR TO ANY WORK WITHIN THE RIGHT OF WAY OF NORFOLK AVENUE, SALEM AVENUE, AND 3RD STREET.

UTILITIES SHOWN WERE OBTAINED FROM BEST AVAILABLE SOURCES. CONTRACTOR SHALL ASSUME MINOR DISCREPANCIES AND ASSUME COSTS ASSOCIATED TO CONNECT OR PROVIDE MINOR ADJUSTMENTS.

GRADING & TRENCHING NOTES

CLEAR, GRUB & STRIP: ALL VEGETATION AND OVERBURDEN INCLUDING TOPSOIL, ORGANIC MATERIAL AND ANY UNSATISFACTORY SOIL MATERIALS, SHALL BE REMOVED TO THE EXTENT OF GRADING INDICATED ON THE GRADING PLAN.

BACKFILL: MATERIAL, COMPACTION AND METHODS PER VDOT REQUIREMENTS.

COMPACTION: FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING SIX (6) INCHES AND COMPACTED TO NINETY-FIVE (95) PERCENT OF ITS MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D698 (STANDARD PROCTOR). SEPARATE PROCTORS SHALL BE RUN FOR EACH SOIL TYPE BEING USED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE TESTING AGENCY OF SOURCES OF FILL OR BACKFILL MATERIAL OTHER THAN THAT OBTAINED ON-SITE.

RIGHT-OF-WAY: ALL TRENCHING, BACKFILLING AND PATCHING WITHIN PUBLIC RIGHT-OF-WAY SHALL CONFORM TO THE CITY OF ROANOKE AND WVWA STANDARDS AND REQUIREMENTS INCLUDING TESTING AND INSPECTION PROCEDURES.

PAVEMENT NOTES

STANDARDS: ALL CONSTRUCTION METHODS AND MATERIALS SHALL BE IN ACCORDANCE WITH THE VDOT "ROAD & BRIDGE STANDARDS & SPECIFICATIONS," LATEST EDITION AND THE LATEST REQUIREMENTS OF THE CITY OF ROANOKE.

UTILITIES: ALL UTILITIES SHALL BE IN PLACE PRIOR TO LAYING THE BASE MATERIAL.

PAVEMENT MARKING: RIGHT OF WAY PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH VDOT STANDARDS, LATEST EDITION.

DRAINAGE NOTES

NATURAL DRAINAGE: THE CONTRACTOR SHALL MAKE PROVISIONS AT ALL TIMES TO ALLOW NATURAL DRAINAGE TO FLOW THROUGH THE WORK AREA WITH MINIMUM DAMAGE TO THE NEW CONSTRUCTION AND NO DAMAGE TO ADJACENT PROPERTY OR THE EXISTING DOWNSTREAM STORM DRAINAGE SYSTEM, WHETHER NATURAL OR MAN-MADE.

MATERIALS: REFER TO SHEET C303 FOR PIPING MATERIALS.

UNDERGROUND CONVEYANCE CONNECTIONS TO EXISTING STORM DRAIN PIPES AND STRUCTURES SHALL BE VIA INSERTA TEE MANIFOLD ADAPTOR, UNLESS NOTED OTHER WISE. COORDINATE PRIVATE DRAINAGE NETWORK CONNECTIONS TO CITY OF ROANOKE STORMWATER NETWORK WITH CITY OF ROANOKE, STORMWATER DIVISION.

FLOOD: THE SUBJECT PROPERTY IS NOT WITHIN THE LIMITS OF THE FEMA 100 YEAR FLOOD BOUNDARY.

RECONDITIONING EXISTING SURFACES TO REMAIN: RECONDITION EXISTING SURFACES DAMAGED BY CONTRACTOR'S OPERATIONS, INCLUDING STORAGE OF MATERIALS AND EQUIPMENT, AND MOVEMENT OF VEHICLES. ALSO RECONDITION EXISTING LANDSCAPED AREAS WHERE MINOR REGRADING IS REQUIRED.

WATER NOTES

STANDARDS: CONSTRUCTION OF ALL WATER LINES, STRUCTURES, AND PAVEMENT

REPLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) "ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS" AND THE COMMONWEALTH OF VIRGINIA/STATE BOARD OF HEALTH (VDH) "WATER WORKS REGULATIONS" LATEST EDITIONS, AS MINIMUM STANDARDS, AS WELL AS THOSE OF THE WESTERN VIRGINIA WATER AUTHORITY (WVWA). SEE DETAILS.

SURFACE & COVER: IN AREAS OF WATER LINE CONSTRUCTION, GRADES SHALL BE WITHIN SIX (6) INCHES OF FINISHED SUBGRADE PRIOR TO THE COMMENCEMENT OF THIS WORK. MINIMUM CLEAR COVER OVER ALL WATER PIPE SHALL BE THREE (3) FEET, UNLESS NOTED OTHERWISE - COORDINATE WITH WVWA AND OTHER UTILITY OWNERS RIGHT OF WAY.

TAPS/CONNECTIONS: ALL CONNECTIONS TO EXISTING WATER MAINS AND METER BOXES SHALL BE PERFORMED BY THE CONTRACTOR AND COORDINATED WITH WVWA.

SEPARATION: THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER WORKS REGULATIONS PERTAINING TO SEPARATION OF WATER AND SANITARY SEWER.

MATERIALS AND BEDDING: SEE PROJECT MANUAL.

SERVICE: SEE PROJECT MANUAL.

FINISH GRADE: THE CONTRACTOR SHALL LOCATE AND UNCOVER ALL VALVE BOXES AFTER PAVEMENT/SURFACE TREATMENT OF PAVED AREAS AND ADJUST THE TOPS TO FINAL ROAD GRADES, IF NECESSARY.

SEWER NOTES

STANDARDS: CONSTRUCTION OF ALL SANITARY SEWER LINES, STRUCTURES, AND PAVEMENT REPLACEMENT SHALL CONFORM TO THE REQUIREMENTS OF THE VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) "ROAD AND BRIDGE STANDARDS AND SPECIFICATIONS" AND THE COMMONWEALTH OF VIRGINIA/STATE BOARD OF HEALTH (VDH) "SEWAGE HANDLING AND DISPOSAL REGULATIONS" LATEST EDITIONS, AS MINIMUM STANDARDS, AS WELL AS THOSE OF THE WVWA. SEE DETAILS.

SURFACE & COVER: IN AREAS OF SEWER CONSTRUCTION, GRADES SHALL BE THREE (3) FEET OVER THE CROWN OF THE PIPE TO BE LAID OR WITHIN SIX (6) INCHES OF FINISHED SUBGRADE PRIOR TO THE COMMENCEMENT OF THIS WORK. MINIMUM CLEAR COVER OVER PROPOSED LINES SHALL BE THREE (3) FEET.

SEPARATION: THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER WORKS REGULATIONS PERTAINING TO SEPARATION OF WATER AND SANITARY SEWER. WHEN THE SEWER CANNOT MAINTAIN TEN (10) FEET HORIZONTAL SEPARATION MEASURED EDGE TO EDGE OR EIGHTEEN (18) INCHES VERTICAL SEPARATION EDGE TO EDGE (BELOW WATERLINE), THE SEWER SHALL BE CONSTRUCTED OF AWWA APPROVED MECHANICAL JOINT WATER PIPE AND PRESSURE TESTED IN PLACE TO FIFTY (50) PSI WITHOUT LEAKAGE PRIOR TO BACKFILLING.

MATERIAL & BEDDING: PIPE AND FITTINGS SHALL BE POLYVINYL CHLORIDE (PVC) SDR-35 AND SHALL CONFORM TO ASTM D-3034. BEDDING SHALL BE PER VDOT STANDARD AND SPEC. (CLASS B MIN.). ALL TRENCHES SHALL BE COMPACTED ACCORDING TO VDOT STANDARDS.

TAPS: ALL CONNECTIONS TO EXISTING SANITARY SEWER MAINS SHALL BE MADE BY THE CONTRACTOR AND COORDINATED WITH THE WVWA.

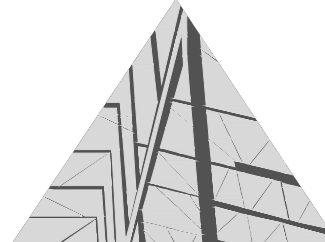
MANHOLE CONNECTIONS: PIPE SHALL BE CONNECTED TO MANHOLES THROUGH PRECAST OPENINGS AND JOINED WITH EITHER A FLEXIBLE BOOT ADAPTER OR A PIPE SEAL GASKET. TRANSITIONS BETWEEN ALLOWABLE TYPES OF PIPE SHALL BE MADE WITH AN ADAPTER COUPLING APPROVED BY THE WVWA WITHIN THE RIGHT-OF-WAY.

FINISH GRADE: THE CONTRACTOR SHALL LOCATE AND UNCOVER ALL SEWER MANHOLES AFTER PAVEMENT/SURFACE TREATMENT OF PAVED AREAS AND ADJUST THE TOPS TO FINAL ROAD GRADES, IF NECESSARY.

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CITY STORMWATER:	MICHAEL VENABLE (540) 853-5911
CITY TRANSPORTATION (STREETS):	HONG LIU (540) 853-2676 / IAN COFFEY (540) 853-2210
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City of Roanoke Planning, Building, & Development
COMPREHENSIVE DEVELOPMENT PLAN
APPROVED
by Aaron Cypher 09/08/2021

NEW CONSTRUCTION FOR

GRTC
TRANSIT STATION

CITY OF ROANOKE

Spectrum Design Project No.: 19106



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GENERAL NOTES

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