SUMMIT COUNTY GENERAL NOTES

ALL CONSTRUCTION AND MATERIALS INCLUDED ON THIS PROJECT SHALL BE IN ACCORDANCE WITH

(SCE). WHERE CONFLICTS OCCUR IN THE ABOVE, THE SCE SHALL DETERMINE THE GOVERNING

AUTHORITY

THE LATEST EDITION OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE SPECIFICATIONS AND DETAILS OF THE SUMMIT COUNTY ENGINEER

UTILI

<u>OLINEIXAE OTIELLE NOTE</u>	GENERAL	UTILITY	NOTES
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- CONTRACTOR SHALL CONTACT ALL UTILITY COMPANI THE UTILITY COMPANIES HAVE THE ESSENTIALS REQ CONTRACTOR SHALL NOTIFY CONSTRUCTION MANAGER BY UTILITY COMPANIES WHICH WILL NOT MEET THE
- 2. CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, INV WHICH ARE INTENDED TO BE UTILIZED AS A CONNEC ANY CONSTRUCTION. CONTRACTOR TO ENSURE EXIST FLOWING (IF APPLICABLE). IF ELEVATIONS, SIZE, OR CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- 3. WHERE PLANS PROVIDE FOR PROPOSED WORK TO B SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR BOTH AS TO LINE AND GRADE BEFORE STARTING TH ELEVATION OF THE EXISTING CONDUIT, OR EXISTING THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING WORK WHICH WOULD BE AFFECTED BY THE INTERFE ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE THE PERTINENT ITEM.
- 4. COLOR VIDEO RECORDING INSPECTION WITH AUDIO E STORM AND SANITARY SEWERS 48" AND SMALLER
- 4.1. PERFORM THOROUGH FLUSHING/CLEANING AND SANITARY SEWERS AND STORM SEWERS. ALL INS EXPERIENCED AND QUALIFIED FIRM ENGAGED IN ENGINEER. WRITTEN REPORTS OF ALL INSPECTIO AND THE COUNTY ENGINEER FOR APPROVAL. AI VIDEO RECORDING INSPECTION IN ACCORDANCE COMPLETION OF THE PAVEMENT CONSTRUCTION. REQUIREMENT OF THESE TESTS AND INSPECTION DEFECTS AND RETEST THE INSTALLATION.
- 4.2. ALL STORM AND SANITARY SYSTEM STRUCTURES OF THE VIDEO RECORDING.
- 5. ALL SEWER RUN DISTANCES GIVEN ARE FROM CENTE INVERT ELEVATIONS GIVEN AT MANHOLES ARE AT CE
- 6. PLUG ALL UPSTREAM PIPE AND COVER MANHOLES
- 7. ALL DISTURBED AND/OR DAMAGED STORM SEWER PI BERMS AND DITCHES SHALL BE REPAIRED AND/OR ENGINEER AND THE OWNER.
- 8. IT IS THE OBLIGATION AND RESPONSIBILITY OF THE SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS UNDERGROUND UTILITY FACILITIES ARE SHOWN ON THE FIELD SURVEY IN ACCORDANCE WITH SECTION SHALL BE RESPONSIBLE FOR NOTIFICATION OF THE SERVICE LISTED BELOW IN ACCORDANCE WITH SECT
- 9. WATER MAINS, ROOF DRAINS, FOUNDATION DRAINS SANITARY SEWER ARE PROHIBITED.

STORM SEWER NOTES

- 1. ALL STORM SEWER PIPE GREATER THAN 15" IN DIAI POLYETHYLENE (HDPE) SMOOTH INTERIOR PIPE (UNLE CONFORM TO ASTM D 3350 AND JOINTS PER ASTM IN DIAMETER SHALL BE PVC, SDR 35, PER ASTM D EQUAL).
- 2. WHERE SPECIFIED, RCP PIPE SHALL BE CLASS IV, PE
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PIPE MATERIAL AND TAP CONNECTION. SEE SHEET COORDINATE ALL WORK.
- 4. ALL FIELD TILE ENCOUNTERED SHALL BE EVALUATED THE STORM SEWER SYSTEM. ALL SUCH TIE-INS SHA OF THE DETENTION CONTROLS AND BE ACCURATELY THE "AS-BUILT" DRAWINGS.
- 5. STORM SEWER MANHOLES COVERS SHALL BE SET E STRUCTURES ARE DEPICTED WITH A SOLID CIRCLE F WALLS. ORIENT AS SHOWN ON THE PLANS.
- 6. ALL CATCH BASINS, CASTING GRATES AND INLET CO DRAINS TO WATERWAYS" CAST IN A VISIBLE LOCATION CONSERVATION AWARENESS.

ELECTRICAL NOTES

THE CONTRACTOR SHALL RETRIEVE ALL INSTALLATIO ELECTRIC COMPANY THROUGH THEIR SERVICE DESIGN

TELEPHONE NOTES

. THE CONTRACTOR SHALL RETRIEVE ALL INSTALLATION REQUIREMENTS AND PROJECT DUTIES FROM THE TELEPHONE COMPANY THROUGH THEIR SERVICE DESIGN.

NATURAL GAS NOTES

THE CONTRACTOR SHALL RETRIEVE ALL INSTALLATION REQUIREMENTS AND PROJECT DUTIES FROM THE GAS COMPANY THROUGH THEIR SERVICE DESIGN.

CABLE NOTES

THE CONTRACTOR SHALL RETRIEVE ALL INSTALLATION REQUIREMENTS AND PROJECT DUTIES FROM THE CABLE COMPANY THROUGH THEIR SERVICE DESIGN.

LATERAL NOTES

- 1. ALL SANITARY HOUSE LATERALS SHALL BE 6" PVC LAID AT A MINIMUM 1.0% SLOPE.
- 2. ALL STORM HOUSE LATERALS SHALL BE 6" PVC LAID AT A MINIMUM 1.0% SLOPE.
- 3. ALL WATERLINE HOUSE LATERALS SHALL BE 1" TYPE K COPPER WATER LINE WITH A MINIMUM 4.5' OF COVER. A CURB STOP SHALL BE INSTALLED ON THE LATERAL 2' BEHIND THE RIGHT OF WAY LINE.
- ANY DEFECTS IN THE CONSTRUCTION, INCLUDING MATERIALS OR WORKMANSHIP, SHALL BE REPLACED OR CORRECTED BY REMOVAL AND REPLACEMENT OR OTHER APPROVED METHOD PRIOR TO ACCEPTANCE BY THE SCE. THE SCE SHALL NOT BE HELD LIABLE FOR DAMAGES OF ANY TYPE WHICH MAY OCCUR AS A RESULT OF ERROR AND/OR OMISSIONS IN THE ENGINEERING DESIGN DATA PRESENTED BY THE DEVELOPER'S ENGINEER. THE SCE SHALL NOT BE LIABLE FOR ANY DAMAGES RESULTING FROM THE DEVELOPER'S CONTRACTOR NOT COMPLYING WITH THE APPROVED PLANS OR BY USING CONSTRUCTION METHODS OR MATERIALS NOT APPROVED BY THE SCE. THE DEVELOPER'S ENGINEER SUBSTANTIATES THAT ALL DESIGN DATA AND CALCULATIONS PERTAINING TO THESE IMPROVEMENT PLANS, WHERE APPLICABLE, ARE CORRECT AND DO CONFORM TO THE CURRENT DESIGN CRITERIA. THE SCE IN APPROVING THESE PLANS AND DEDICATION PLAT THEREOF, DOES NOT, IN ANY WAY, RELIEVE THE DEVELOPER'S ENGINEER OF HIS RESPONSIBILITY FOR ACCURATE AND COMPLETE ENGINEERING DESIGN RELATIVE TO THE PLANS. ALL ROAD SURFACES, EASEMENTS OR RIGHTS-OF-WAY DISTURBED BY CONSTRUCTION OF ANY PART OF THIS IMPROVEMENT ARE TO BE RESTORED COMPLETELY TO THE BEFORE CONSTRUCTION CONDITION OR BETTER WHEN DIRECTED BY THE SCE AND/OR THE SUMMIT COUNTY D.S.S.S. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES AND SHALL BACKFILL AND GRADE EXCAVATED AREAS TO ELIMINATE PONDING ON THE SITE. THE LOCATIONS OF ALL BURIED UTILITY ARE TO BE DETERMINED BY THE CONTRACTOR. EXISTING UTILITY APPURTENANCES ARE TO BE SAFEGUARDED BY THE CONTRACTOR DURING CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE UTILITIES PROTECTION SERVICE, 1-800-362-2764, AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY UNDERGROUND WORK IS COMMENCED. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE SCE PRIOR TO THE START OF ANY CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL NOT COMMENCE WITH ANY FORM OF CONSTRUCTION WITHOUT NOTIFYING THE SCE FORTY-EIGHT (48) HOURS PRIOR TO STARTING CONSTRUCTION (330-643-2850). IF ANY CHANGE IN THE WORK SCHEDULE BECOMES NECESSARY, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE INSPECTOR TO AVOID UNNECESSARY INSPECTION COSTS. IF NO NOTIFICATION IS MADE IN REGARDS TO THE CANCELLATION OF WORK, THE DEVELOPER WILL BE CHARGED FOR THE INSPECTION TIME INCURRED. THE DEVELOPER WILL BE BILLED QUARTERLY FOR INSPECTION SERVICES. THE CONTRACTOR OR DEVELOPER SHALL OBTAIN ALL NECESSARY PERMITS. A ROAD OPENING PERMIT IS REQUIRED ON ALL SUBDIVISIONS BEFORE ACCESS IS GRANTED FOR CONSTRUCTION PURPOSES WITHIN A PUBLIC RIGHT-OF-WAY. THE SCE WILL NOT INSPECT OR ACCEPT ANY WORK THAT IS DONE WITHOUT A ROAD OPENING PERMIT BEING AVAILABLE ON THE CONSTRUCTION SITE. IN ADDITION, LOCAL TRAFFIC MUST BE MAINTAINED AT ALL TIMES. ANY DISTURBED SIGNS, GUARDRAIL, MAIL/PAPER BOXES, DRIVES, DRIVE CULVERTS, STORM SEWER PIPES, STRUCTURES, PAVEMENTS, BERMS AND DITCHES SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED BY THE SCE. ANY DISTURBED LAWN AREAS SHALL BE REPLACED BY SEEDING AND MULCHING, INCLUDING TOPSOIL WHERE NEEDED, IN ACCORDANCE WITH ODOT ITEM 653 & 659, AS DIRECTED BY THE SCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY SOIL EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH SUMMIT SOIL AND WATER CONSERVATION DISTRICT AND THE SCE. EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE ANY OTHER CONSTRUCTION COMMENCES ON THIS SITE. THE CONTRACTOR SHALL, ON A DAILY BASIS, CLEAN ALL EXISTING STREETS OF MUD AND DIRT DURING THE CONSTRUCTION PHASE. THE STORMWATER POLLUTION PREVENTION PLAN MUST BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION. ALL STORM SEWER INSTALLATION WITHIN THE RIGHT-OF-WAY LIMITS SHALL CONFORM TO ODOT ITEM - 611 WHERE SEWER INTERSECTIONS HAVE LESS THAN EIGHTEEN (18) INCH VERTICAL SEPARATION, ENCASE THE LOWER PIPE AND MONOLITHICALLY CRADLE THE UPPER PIPE IN CLASS QC1 CONCRETE FOR THE WIDTH OF THE TRENCH. STORM SEWER LATERALS SHALL BE PVC (SDR 35). ALL PIPES SHALL HAVE PREFORMED WYES OF 6" DIAMETER FOR HOUSE LATERAL CONNECTIONS. ALL WYES AND LATERALS FOR DOWNSPOUT DRAINS SHALL BE INSTALLED WHEN THE STORM SEWER IS INSTALLED. ALL SEWER/UTILITY TRENCH CONSTRUCTION, CONDUIT BEDDING, PIPE COVER, BACKFILL AND COMPACTION SHALL CONFORM TO THE UTILITY TRENCH DETAIL STANDARD DRAWING ON SHEET 26. ALL INSPECTION AND TESTING SHALL BE DONE BY AN EXPERIENCED AND QUALIFIED FIRM ENGAGED IN THIS TYPE OF WORK. ALL STORM SEWERS/CULVERTS MUST BE FLUSHED AND HAVE A COLOR TELEVISION INSPECTION ACCOMPANIED WITH A WRITTEN REPORT SUBMITTED TO THE SCE FOR REVIEW AND APPROVAL. A VIDEO RECORDING MUST BE SUBMITTED, REVIEWED AND APPROVED PRIOR TO RELEASE OF THE PERFORMANCE BOND. IF THE STORM SEWER/CULVERT VIDEO RECORDING AND WRITTEN REPORT IS NOT APPROVED. THE CONTRACTOR SHALL REPAIR OR REPLACE THE DEFECTS AND RESUBMIT THE INFORMATION. THE INTENT IS TO VIDEO RECORD PIPES NOT EASILY ACCESSIBLE FOR VISUAL INSPECTION. FOR EXAMPLE: A CULVERT UNDER A ROAD THAT CAN BE VISUALLY CHECKED IS EXEMPT FROM BEING VIDEO RECORDED. A SYSTEM OF PIPES WITH MANHOLES AND CATCH BASINS WILL BE REQUIRED TO BE VIDEO RECORDED. THE SCE WILL DETERMINE IF A PIPE CAN BE VISUALLY CHECKED OR IF A VIDEO RECORDING IS REQUIRED. UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH ODOT ITEM 605; CONDUIT SHALL BE A MINIMUM OF FOUR (4) INCH DIAMETER PIPE AND CONFORMING TO ODOT SPECIFICATION 707.33. 707.41, 707.42 OR 707.45 WITH NO. 8 AGGREGATE ON FOUR (4) INCHES OF BEDDING. THE UNDERDRAIN SHALL BE MODIFIED WITH FOUR (4) ROWS OF PERFORATIONS. SEE UNDERDRAIN STANDARD DRAWING ON SHEET 27. 8. ALL PROPOSED STORM SEWER MANHOLES AND CATCH BASINS SHALL ADHERE TO ODOT ITEM 611 AND THE CURRENT EDITION OF THE ODOT STANDARD CONSTRUCTION DRAWINGS. WHEREVER UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED THAT ARE NOT INDICATED ON THE PLANS, THE WORK SHALL BE DISCONTINUED UNTIL THE SCE APPROVES THE METHOD AND MATERIAL TO BE INCORPORATED INTO THE WORK, AS ALL CONDUITS SHALL BE INSTALLED ON A FIRM BED FOR ITS FULL LENGTH IN ACCORDANCE WITH ODOT ITEM 611 UNLESS OTHERWISE SPECIFIED. 20. ALL FILLED AREAS, EXCLUDING TRENCHES, WITHIN RIGHT-OF-WAY AREAS SHALL BE COMPACTED IN ACCORDANCE WITH ODOT ITEM 203. IN ADDITION, FOR ANY FILL IN EXCESS OF TWO (2) FEET. NUCLEAR COMPACTION TESTS SHALL BE PERFORMED BY AN APPROVED TESTING COMPANY IN ACCORDANCE WITH ODOT ITEM 203. THESE TESTS SHALL BE APPROVED BY THE SCE BEFORE ANY PAVEMENT CONSTRUCTION COMMENCES AND SHALL MEET THE COMPACTION REQUIREMENTS OF THE TRENCH DETAIL STANDARD DRAWING ON SHEET 26. EMBANKMENT CONSTRUCTION AT DETENTION/RETENTION FACILITIES SHALL BE COMPACTED IN ACCORDANCE WITH ODOT ITEM 203 AND TO A MINIMUM OF 98% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY AND MUST BE WITHIN 2% OF THE MATERIAL'S OPTIMUM MOISTURE CONTENT PRIOR TO COMPACTION. BEFORE ACCEPTANCE OF THE SUB-GRADE BY THE SCE, A FORTY (40) TON PROOF ROLL SHALL BE REQUIRED ON ALL AREAS TO BE PAVED. THE SUBGRADE AND PROOF ROLL MUST BE IN ACCORDANCE WITH ODOT ITEM 204. IN LIEU OF USING THE EQUIPMENT UNDER ODOT ITEM 204, A TANDEM DUMP TRUCK WITH A GROSS WEIGHT OF 60,000 POUNDS MAY BE SUBSTITUTED. 2. FOR ODOT ITEMS 301 & 448, THE CONTRACTOR SHALL PROVIDE THE SCE WITH A JOB MIX FORMULA FOR REVIEW AND APPROVAL PRIOR TO PAVING OPERATIONS. ALL MATERIALS USED MUST BE OBTAINED FROM A SOURCE APPROVED BY ODOT. FOR ITEM 448 SURFACE COURSE, THE COARSE AGGREGATE IN THE MIX SHALL BE CRUSHED LIMESTONE. THE SURFACE COURSE SHALL BE CONSTRUCTED NO LATER THAN ONE (1) YEAR AFTER ITEM 301 IS PLACED. 23. CURB AND GUTTER SHALL BE CONSTRUCTED IN ACCORDANCE WITH ODOT ITEM 609, CAST IN PLACE CONCRETE CURB AND GUTTER. NO ASPHALT AND/OR CONCRETE PAVEMENT AND CURB AND GUTTER SHALL BE LAID ON A FROZEN SURFACE. 24. ALL MONUMENT BOXES SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE ODOT STANDARD ROADWAY CONSTRUCTION DRAWINGS. 25. IMMEDIATELY FOLLOWING THE COMPLETION OF GRADING OPERATIONS FOR A PROPOSED DETENTION / RETENTION BASIN, FINAL RESTORATION OF THE BASIN MUST BE COMPLETED TO ESTABLISH PROPER VEGETATION AND LIMIT SOIL EROSION. A MINIMUM THICKNESS OF 3" OF TOPSOIL MUST BE APPLIED TO THE LIMITS OF THE GRADING FOR THE BASIN AND THEN SEEDED AND MULCHED. THE MATERIAL UTILIZED IN RESTORATION OF THE BASIN SHALL ADHERE TO ODOT ITEMS 652. 653 AND 659.

TY NOTES	SUMMIT COUNTY D.S.S.S. NOTES	
	1. ALL SANITARY SEWERS AND APPURTENANCES SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS OF THE DEPARTMENT OF SANITARY SEWER SERVICES (D.S.S.S.).	1. THE CONTRACTOR SHA PIPE, FITTINGS AND FI
NIES IMMEDIATELY AFTER BID IS AWARDED AND ENSURE	2. ROOF DRAINS, FOUNDATION DRAINS AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED. ORDINANCE 85-656, APPROVED 10/08/85	OTHER APPURTENANCE INSTALLATION. ALL W. ENGINEERING BUREAU.
EQUIRED FOR COMPLETE SERVICE INSTALLATION. GER AND ENGINEER OF ANY TIME FRAMES ESTABLISHED	3. APPROVAL BY D.S.S.S. CONSTITUTES NEITHER EXPRESSED NOR IMPLIED WARRANTIES AS TO THE FITNESS,	MAIN MATERIALS. INS SECTION 250, WATER N
E COMPLETION DATE.	ACCURACY, OR SUFFICIENCY OF PLANS, DESIGNS OR SPECIFICATIONS. 4. THE DESIGN ENGINEER CERTIFIES THAT ALL UTILITIES IN EXISTING AND PROPOSED ROADS AND EASEMENTS ARE	UTILITIES ENGINEER PR 2. MUST MAINTAIN A TEN
NECTION POINT FOR ALL PROPOSED UTILITIES, PRIOR TO STING UTILITIES ARE IN GOOD CONDITION AND FREE	SHOWN.	EDGE OF ALL SANITAR 3. MUST MAINTAIN AN 18
OR LOCATION DIFFER FROM WHAT IS SHOWN, Y.	 ALL SANITARY SEWERS SHALL PASS THE AIR ACCEPTANCE TEST PRIOR TO ACCEPTANCE BY D.S.S.S. ALL SANITARY SEWER SHALL BE VIDEO TAPED BY THE OWNER AND FOUND TO BE FREE OF DEFECTS AND ALL 	AND/OR SERVICE LINES
BE CONNECTED TO, OR CROSS OVER AN EXISTING OR SHALL LOCATE THE EXISTING PIPES OR UTILITIES THE PROPOSED WORK. IF IT IS DETERMINED THAT THE	FOREIGN MATTER AND IN PROPER ALIGNMENT PRIOR TO FORMAL ACCEPTANCE BY D.S.S.S. 7. ALL MANHOLES SHALL BE SUPPLIED WITH SOLID COVERS EXCEPT IN EASEMENTS WHERE MANHOLE COVERS	4. THE CONTRACTOR MUS MAIN PIPE TO EDGE OI POLE BASES, AND HAN
G APPURTENANCE RESULTS IN A CHANGE IN THE PLAN, ING CONSTRUCTION OF ANY PORTION OF THE PROPOSED	SHALL BE SOILD-LOCKING TYPE.	5. THE CONTRACTOR MUS
FERENCE WITH AN EXISTING FACILITY. PAYMENT FOR E INCLUDED IN THE CONTRACT ORIGINAL BID PRICE FOR	8. ALL SANITARY LATERALS SHALL BE EXTENDED TO NOT LESS THAN 15 FEET INTO THE PROPERTY.	WATER MAIN PIPE TO LIGHT POLE BASES, AN
EVALUATION OF CONDITIONS AND TESTING OF ALL	9. ALL SANITARY LATERALS SHALL BE LAID AT NO LESS THAN 1% GRADE. 10. SANITARY SEWER MATERIALS SHALL CONFORM TO D.S.S.S. AND O.E.P.A. STANDARDS.	6. WHERE WATER MAINS (GRANULAR MATERIAL.
R PRIOR TO ANY PAVING OPERATIONS:	11. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING SEWERAGE SYSTEM	7. APPROVED PIPE FITTIN
O COLOR VIDEO RECORDING INSPECTION AND TESTING OF INSPECTION AND TESTING SHALL BE DONE BY AN	RESULTING FROM NON-CONFORMANCE WITH SUMMIT COUNTY STANDARDS OR GENERAL NEGLIGENCE.	PIPE: CLASS 53 DUC
N THIS TYPE OF WORK, AS APPROVED BY THE COUNTY TON AND TESTING SHALL BE SUBMITTED TO THE OWNER ALL SEWERS MUST BE CLEANED AND HAVE A COLOR	12. A 12" MAXIMUM MANHOLE GRADE ADJUSTMENT IS PERMITTED. ADJUSTMENT IS TO BE MADE WITH PRECAST GRADE RINGS OR INFRA-RISER RUBBER RISER RINGS. A MINIMUM OF ONE (1) GRADE RING IS REQUIRED AT EACH MANHOLE.	LABELED POLYETHYLEN PIPE JOINTS: PUSH-(
E WITH THE COUNTY ENGINEER SPECIFICATION AFTER N. IF THE INSTALLATION FAILS TO MEET THE	13. INTERNAL CHIMNEY SEALS SHALL BE INSTALLED IN ALL MANHOLES.	OR RESTRAINING RU
ONS, THE CONTRACTOR SHALL REPAIR OR REPLACE ALL	14. MANHOLE COVER INSERTS SHALL BE PROVIDED FOR ALL MANHOLES, REGARDLESS OF THE TYPE OF COVER REQUIRED.	FITTINGS: CLASS 350 PER AWWA C110 ARE ANCHOR PIPE IS REQU
RES I.E. MANHOLES, YARD DRAINS, ETC. SHALL BE PART	15. WHERE INLET AND OUTLET PIPES CONNECT TO MANHOLES, A FLEXIBLE WATERTIGHT JOINT, AS APPROVED BY D.S.S.S., IS REQUIRED.	RESTRAINED PIPE SYST GRIP GASKETS (4 THR
NTER LINE TO CENTER LINE OF MANHOLES. ALL PIPE CENTERLINE OF MANHOLE.	16. SANITARY SEWER MATERIALS SHALL CONSIST OF <u>P.V.C. SDR 35</u> MEETING <u>A.S.T.M. D3034</u> WITH JOINTS CONFORMING TO <u>ASTM D3212.</u> *(CHECK STANDARDS FOR APPROVED MATERIAL AND ASTM SECTIONS)*	AND 6 OUNCE ŻINC AŁ REQUIRED ON ALL 16– RESTRAINED FITTING DI
S AT THE END OF EACH WORKING DAY. PIPES, STORM SEWER APPURTENANCES, PAVEMENTS,	AVEMENTS, 17. THE OWNER (CONTRACTOR) MUST ALERT THE OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 AT LEAST 48 HOURS BEFORE ANY EXCAVATION HAS BEGUN.	
R REPLACED TO THE SATISFACTION OF THE COUNTY	18. ALL ROUGH GRADING (WITHIN 6" OF FINISHED GRADE) SHALL BE COMPLETED WITHIN THE RIGHT-OF-WAY PRIOR TO SANITARY SEWER AND WATER LINE CONSTRUCTION.	THROUGH 8-INCH, CON CONCRETE BLOCKING IS RESTRAINED JOINTS FO
E CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF HIS PROPOSAL. THE LOCATION OF ALL EXISTING THE PLANS FROM DATA AVAILABLE AT THE TIME OF	19. NO SEWER CONSTRUCTION WILL BE PERMITTED UNTIL SUCH TIME THAT THE PLANS ARE APPROVED BY D.S.S.S. AND THE O.E.P.A. INCLUDING PAYMENT OF REVIEW AND "PERMIT TO INSTALL" FEES REQUIRED BY THE O.E.P.A.	FEET ON EACH SIDE O GASKETS OR MECHANIC DIAMETERS 16-INCH A VALVE, BEND OR OFFS
I 153.64 OF THE OHIO REVISED CODE. THE CONTRACTOR E EXISTING UTILITY OWNERS AND UTILITY PROTECTION CTION 153.64 OF THE O.R.C.	20. ALL SANITARY SEWERS CONTAINED HEREIN ARE TO BE PUBLICLY OWNED AND MAINTAINED.	MECHANICAL JOINT T-
S AND OTHER CLEAN WATER CONNECTIONS TO THE		CONSTRUCTION-GRADE STANDARD LENGTH AN
	OEPA NOTES	HYDRANTS: AKRON-S "FLOWMASTER" CD250; CONTROL MODEL B84B
IAMETER SHALL BE CORRUGATED HIGH DENSITY NLESS OTHERWISE NOTED ON PLAN). HDPE PIPE SHALL	1. THE SANITARY SEWERS MUST PASS A LEAKAGE TEST WHICH SHALL BE A LOW PRESSURE AIR TEST IN ACCORDANCE WITH THE TEN STATES STANDARDS SECTION 33.95.	WATER WORKS STANDA LEAD-FREE PER NSF (
TM F477. STORM SEWER EQUAL TO OR LESS THAN 15" D 3034 AND JOINTS PER ASTM D 3212 (OR APPROVED	2. ALL FLEXIBLE SANITARY SEWERS MUST PASS A DEFLECTION TEST (5% MAXIMUM).	GATE VALVES: RESILI SHALL HAVE NON-RISI
	3. ALL WATER MAIN SHALL BE INSTALLED AND PRESSURE TESTED PER AWWA C-600	BUTTERFLY VALVES, 16
PER ASTM C76, AND JOINTS PER ASTM C-443.	4. ALL WATER MAIN SHALL BE DISINFECTED PER AWWA C-651.	VICTAULIC ENDS WITH VALVE MUST BE REPLA
LL TRENCHING, BACKFILLING AND PIPE INSTALLATION, I 01 FOR THE UTILITY CONTACT INFORMATION TO	5. THE WATER MAIN SHALL MAINTAIN A MINIMUM OF 35 PSI TO THE CURB STOP DURING NORMAL OPERATING CONDITIONS.	VALVE BOXES: BIBBY COMPATIBILITY.
TED BY THE COUNTY ENGINEER BEFORE BEING TIED INTO HALL BE ROUTED TO A SEPARATE OUTLET DOWNSTREAM ILY LOCATED BY THE CONTRACTOR FOR INCLUSION IN	6. BOOSTER PUMPS ARE NOT PERMITTED ON WATER SERVICE CONNECTIONS.	CURB BOXES: RISER
	7. A MINIMUM OF 18 INCHES VERTICAL AND 10 FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND STORM SEWERS.	IRON AND THREAD INT 8. COMPACTED PREMIUM
ENTIRELY IN OR OUT OF SIDEWALK LIMITS. FOR THE GRATE WITH AN OUTLINE OF MANHOLE	8. A MINIMUM OF 18 INCHES VERTICAL AND 10 FEET HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN THE WATER MAIN AND SANITARY SEWERS.	FEET OF ANY PROPOSI SECTION 551.09 OF TH
COVERS SHALL BE SUPPLIED WITH "DUMP NO WASTE, ATION TO PROMOTE POLLUTION PREVENTION AND	9. A FLEXIBLE WATERTIGHT JOINT IS REQUIRED. FLEXIBLE MANHOL CONNECTIONS SHALL MEET ASTM C-923. PRECAST MANHOLE CONSTRUCTION SHALL MEET ASTM C-478 WITH JOINTS PER ASTM C-443.	9. ANY EXISTING WATER I CURB BOXES THAT AR ADJUSTED, MOVED AND
	10. MANHOLE TESTING MUST CONFORM TO ASTM SPECIFICATION ASTM C1244.	WATER DISTRIBUTION S
	11. SEWER LINE TESTING MUST CONFORM TO ASTM SPECIFICATION ASTM F1417.	10. NO TAPS FOR WATER STERILIZED. ALL TAPS THE CITY OF AKRON.
TION REQUIREMENTS AND PROJECT DUTIES FROM THE IGN.		11. ALL WATER MAIN CONS AKRON (TONY PUGLIA
		BEGINNING CONSTRUCT 12. PRIOR TO ACCEPTANCE AND DISINFECTED AS S

AKRON WATER NOTES TOR SHALL SUPPLY ALL OF THE WATER MAIN MATERIALS, INCLUDING THE DUCTILE IRON AND FITTING RESTRAINTS, HYDRANTS AND VALVES, POLYETHYLENE ENCASEMENT, ALL RTENANCES AND ANY ITEMS SPECIALLY ITEMIZED AS REQUIRED FOR THE WATER MAIN ALL WATER MAIN MATERIALS SHALL COMPLY WITH THE CITY OF AKRON, AKRON BUREAU, CONSTRUCTION AND MATERIAL SPECIFICATIONS (LATEST EDITION) ITEM 715, WATER Glaus, Pyle, Schomer, Burns & DeHaven, In-LS. INSTALLATION OF ALL WATER MAIN MATERIALS SHALL BE IN ACCORDANCE WITH WATER MAINS. SUBMITTALS OF MATERIAL SPECIFICATIONS ARE TO BE MADE TO THE INEER PRIOR TO PURCHASING MATERIAL. IN A TEN-FOOT MINIMUM HORIZONTAL CLEARANCE FROM EDGE OF ALL WATER MAIN PIPE TO Copyright; Glaus, Pyle, Schomer, Burns & DeHaven, Inc. 201 SANITARY AND STORM SEWER PIPES AND/OR FORCE MAIN PIPES. IN AN 18-INCH MINIMUM VERTICAL CLEARANCE FROM EDGE OF ALL WATER MAIN PIPE /ICE LINES TO EDGE OF ALL SANITARY SEWER AND STORM PIPES WHERE THEY CROSS. TOR MUST MAINTAIN A 12-INCH MINIMUM VERTICAL CLEARANCE FROM EDGE OF ALL WATER EDGE OF ALL DIRECT BURIAL CONDUITS, CONCRETE ENCASED ELECTRICAL CONDUITS, LIGHT AND HAND HOLE PULL BOXES. TOR MUST MAINTAIN A 36-INCH MINIMUM HORIZONTAL CLEARANCE FROM EDGE OF ALL PIPE TO EDGE OF ALL DIRECT BURIAL CONDUITS, CONCRETE ENCASED ELECTRICAL CONDUITS, ASES, AND HAND HOLE PULL BOXES. MAINS CROSS SEWER TRENCHES, THE TRENCH IS TO BE BACKFILLED WITH APPROVED PE FITTINGS, BOLTS, ETC., FOR AKRON SYSTEM WATER MAIN INSTALLATION: 53 DUCTILE IRON PER AWWA C151 SPECIFICATIONS, WITH CEMENT-LINING PER AWWA C104. YETHYLENE ENCASEMENT PER AWWA C105 IS REQUIRED. PUSH-ON JOINTS (TYTON, BELL-TITE, ETC.), PER AWWA C151 SPECIFICATIONS WITH PLAIN INING RUBBER GASKETS PER AWWA C111 SPECIFICATIONS. ASS 350 DUCTILE IRON COMPACT FITTINGS PER AWWA C153 OR FULL THICKNESS CASTINGS. 10 ARE ACCEPTABLE, WITH MECHANICAL JOINT ENDS AND DUCTILE IRON FOLLOWER GLANDS. IS REQUIRED ON ALL HYDRANT RUNS BETWEEN THE TEE AND HYDRANT RUN VALVE. PIPE SYSTEMS: PUSH-ON JOINT WITH FIELD LOCK (4 THROUGH 12-INCH ONLY) OR FAST 6 (4 THROUGH 12-INCH ONLY), OR MECHANICAL JOINT WITH RESTRAINED FOLLOWER GLANDS, ZINC ANODE CAPS ON EVERY BOLT THREAD. SUPER LOCK, TR FLEX OR FLEX-RING ALL 16-INCH OR LARGER PIPE DIAMETERS. ITTING DEVICES: ALL VALVES, BENDS, OFFSETS, HYDRANT INLETS, CAPS, PLUGS, AND TEES AND WYES MUST BE RESTRAINED USING MECHANICAL JOINT WITH RESTRAINED ANDS OR RESTRAINING GASKETS. HARDWOOD BLOCKING IS REQUIRED FOR ALL DIAMETERS 4 NCH, CONCRETE BLOCKING AND STRAPPING FOR ALL DIAMETERS 12-INCH AND LARGER. OCKING IS REQUIRED ON ALL FIRE LINES AND ON ALL DIAMETERS IN AREAS OVER 100 PSI. OINTS FOR DIAMETERS 12-INCH AND UNDER SHALL BE INSTALLED FOR A LENGTH OF 30 SIDE OF A VALVE. BEND OR OFFSET USING FIELD-LOCK OR FAST-GRIP RESTRAINING MECHANICAL JOINT WITH RESTRAINED FOLLOWER GLANDS. RESTRAINED JOINTS FOR -INCH AND LARGER, SHALL BE INSTALLED FOR A LENGTH OF 30 FEET ON EACH SIDE OF A OR OFFSET USING MECHANICAL JOINT WITH RESTRAINED FOLLOWER GLANDS. JOINT T-HEAD BOLTS: ALL MECHANICAL JOINTS SHALL BE MADE WITH COR-TEN OR N-GRADE ALLOYED DUCTILE IRON BOLTS. T-HEAD BOLTS SHALL BE ½-INCH LONGER THAN NGTH AND MUST INCLUDE A 6 OZ. ZINC ANODE CAP ON EVERY BOLT THREAD. AKRON–STYLE MUELLER "CENTURIAN" MODEL A423; KENNEDY "GUARDIAN" MODEL K–81A; E CD250; AMERICAN FLOW CONTROL MODEL B62B WITH 6-INCH INLET, AMERICAN FLOW EL B84B WITH 8-INCH INLET. THREADS SHALL BE AKRON STYLE AS SHOWN ON AKRON STANDARD CONSTRUCTION DRAWINGS F-3258 AND F-3440. HYDRANTS MUST BE ER NSF 61-G. RESILIENT-SEAT WEDGE (RSW) VALVES WITH RESTRAINED MECHANICAL JOINTS. VALVES NON-RISING STEMS AND SHALL OPEN TO THE RIGHT (CLOCKWISE). ALVES, 16—INCH AND UP: RESTRAINED MECHANICAL JOINT OR SHOULDERED (NOT GROOVED DS WITH STYLE 44N COUPLINGS AND STAINLESS STEEL 316 BOLTS. RUBBER SEALS IN THE 3E REPLACEABLE. FLANGED END OR WAFER-STYLE VALVES ARE NOT ACCEPTABLE. BIBBY, TYLER, BINGHAM AND TAYLOR OR EAST JORDAN BRANDS ARE ACCEPTABLE FOR RISER PIPE MUST BE OF YOLOY CORROSION RESISTANT MATERIAL. PLUG MUST BE CAST READ INTO A BRASS RING. PREMIUM BACKFILL IS REQUIRED FOR UNDERGROUND CONSTRUCTION UNDER OR WITHIN THREE PROPOSED OR EXISTING SIDEWALK OR PAVEMENT. THE BACKFILLING SHALL CONFORM TO D9 OF THE CITY OF AKRON CONSTRUCTION AND MATERIAL SPECIFICATIONS, LATEST EDITION. WATER MAINS, HYDRANTS, VALVES, VALVE BOXES, METER VAULTS, SERVICE LINES, OR THAT ARE DAMAGED OR MUST BE ADJUSTED AND OR MOVED MUST BE REPAIRE OVED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE. CONTACT DOUG ZWAHLEN, \geq BUTION SUPERVISOR, AT (330) 375-2420 TO SCHEDULE THIS WORK. RD WATER SERVICES SHALL BE MADE UNTIL AFTER THE MAINLINE HAS BEEN TESTED AND ALL TAPS 2–INCH AND SMALLER SHALL BE MADE BY THE CONTRACTOR AND INSPECTED B` AKRON. ALL BRASS FITTINGS USED SHALL BE LEAD-FREE PER NSF 61-G. AIN CONSTRUCTION SHALL BE INSPECTED BY THE CITY OF AKRON. NOTIFY THE CITY OF PUGLIA OR DOUG ZWAHLEN) AT (330) 375-2420 AT LEAST 48 HOURS PRIOR TO INSTRUCTION AND FOR ALL PRECONSTRUCTION MEETINGS. CEPTANCE, THE WATER LINE SHALL BE PRESSURE TESTED, AS SPECIFIED IN AWWA C600, AND DISINFECTED AS SPECIFIED IN AWWA C651 LATEST REVISIONS, BY THE CONTRACTOR. 13. USE EXTREME CAUTION WHEN EXCAVATING IN THE AREA OF EXISTING WATER MAIN PIPES, VALVES, <u></u>Δ 0 HYDRANTS AND THRUST BLOCKS. 4. THE CONTRACTOR SHALL SUPPLY A TEMPORARY SAFE WATER SERVICE TO ALL HOMES THAT WILL HAVE THEIR WATER SERVICE INTERRUPTED BY THIS CONSTRUCTION. 15. THE PROPOSED FACILITIES MUST MAINTAIN A MINIMUM OF 35 PSI PRESSURE DELIVERED TO THE CURB Ш 0 STOP DURING NORMAL OPERATING CONDITIONS. ഗ СĽ - 1 | | 16. BOOSTER PUMPS ARE NOT PERMITTED ON SERVICE CONNECTIONS. . ANY CONNECTION TO EXISTING DUCTILE IRON WATER MAIN SHALL BE MADE WITH A DUCTILE IRON SOLID SLEEVE WITH RESTRAINING GLAND. ANY CONNECTION TO EXISTING CAST IRON WATER MAIN MAY BE MADE WITH A CAST COUPLING OR DUCTILE IRON SOLID SLEEVE WITH RESTRAINING GLAND. **ISSUED FOR:** PERMIT BID CONSTRUCTION AS-BUILT PROJECT MANAGER MAI

520 South Main Street, Suite 253

330.572.2100 Fax 330.572.210

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DESIGNER

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JOB NO

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Akron, Ohio 4431