12TH STREET FORCEMAIN IMPROVEMENTS

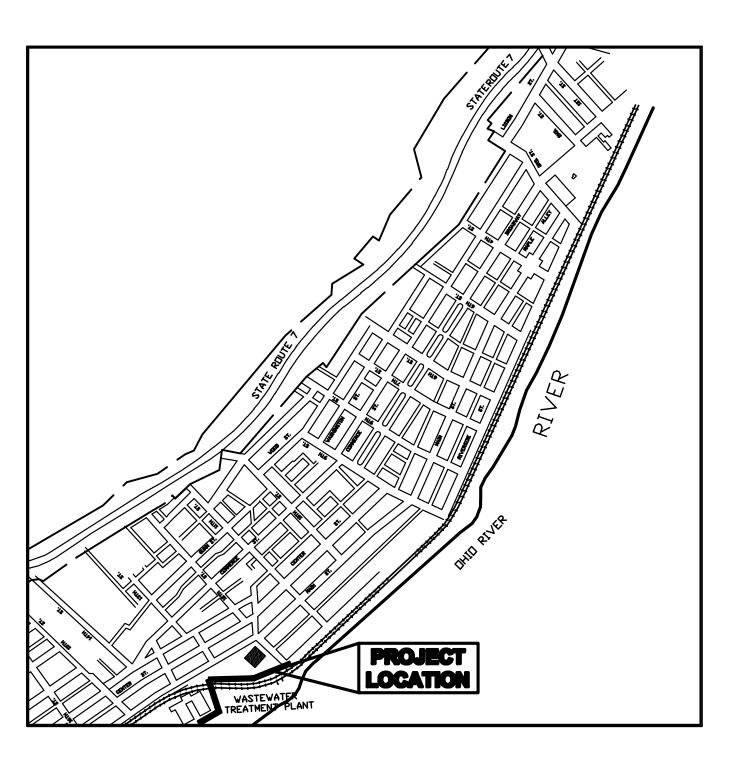
PROJECT #13-011-001

VILLAGE OF WELLSVILLE

COLUMBIANA COUNTY, OHIO **AUGUST 2013**

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PLAN & PROFILE)



LOCATION MAP

JOHN M. SABO, PE# E-69811

APPROVALS

SUSAN A. HAUGH

DATE

THOMAS EDGELL..... VILLAGE ADMINISTRATOR CASSANDRA BLOOR. FISCAL OFFICER

VILLAGE COUNCIL

DON BROWN. COUNCIL PRESIDENT PRO TEM ROSIE GOSS. VILLAGE COUNCIL TONY CATALDO. VILLAGE COUNCIL DIANE DINCH. VILLAGE COUNCIL JOHN MORROW. VILLAGE COUNCIL TONDA ROSS. VILLAGE COUNCIL

UNDERGROUND UTILITIES

CONTACT BOTH SERVICES CALL TWO WORKING DAYS **BEFORE YOU DIG**

1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE SERVICE CALL: 1-800-925-0988



THE LATEST STANDARD SPECIFICATIONS OF THE OHIO DEPARTMENT OF TRANSPORTATION INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS AND STANDARD DRAWINGS. SHALL GOVERN ALL EARTHWORK, DRAINAGE, CONCRETE AND PAVING WORK FOR THIS PROJECT.

ALL WORK CONTEMPLATED SHALL BE GOVERNED BY THE RULES, REGULATIONS AND SPECIFICATIONS OF THE VILLAGE OF WELLSVILLE, COLUMBIANA CO., AND UTILITIES AND AT ALL TIMES SHALL BE SUBJECT TO THEIR DIRECT SUPERVISION AND INSPECTION.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT SHALL COMPLY TO THE U.S. DEPARTMENT OF LABOR OCCUPATIONAL AND HEALTH ACT.

STATIONING SHOWN HEREIN IS ALONG THE SURVEY BASELINE, UNLESS OTHERWISE NOTED ON THE

THE CONTRACTOR SHALL INCLUDE THE COST OF COMPACTED BACKFILL MATERIAL INCLUDING COMPACTION TESTS UNDER ALL EXISTING AND PROPOSED PAVEMENTS IN THE PRICE BID PER LINEAL FOOT OF PIPE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AND CONSTRUCTION SIGNS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. ALL SIGNS AND MATERIALS USED SHALL CONFORM TO THE SPECFICATIONS SET FORTH IN THE CURRENT EDITION, INCLUDING ALL SUPPLEMENTAL SPECIFICATIONS, OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

IT IS THE OBLIGATION AND THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE HIS OWN INVESTIGATION OF THE SURFACE AND SUBSURFACE CONDITIONS PRIOR TO SUBMITTING HIS

AS BUILT DRAWINGS ARE TO BE SUBMITTED TO THE ENGINEER PRIOR TO PROJECT CLOSE OUT. AS BUILTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

THE OWNER RESERVES THE RIGHT TO KEEP IN THEIR POSSESSION ANY ITEM BEING DEMOLISHED OR REMOVED AS PART OF THIS CONTRACT.

THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ALL MATERIALS THAT ARE REMOVED OR DEMOLISHED AS PART OF THIS CONTRACT.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON ALL DRAWINGS PRIOR TO PROCEEDING WITH CONSTRUCTION. (FIGURED DIMENSIONS ONLY SHALL BE USED) ANY DISCREPANCY BETWEEN ACTUAL AND GRAPHIC CONDITIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH ANY CONSTRUCTION.

ELEVATIONS: THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE INSTALLING ANY PROPOSED PIPE, MANHOLES OR CATCH BASINS. ANY ADJUSTMENTS SHALL BE APPROVED BY THE ENGINEER.

ANY EXISTING PROPERTY, STRUCTURES OR UTILITY LINES DAMAGED IN OR OUTSIDE OF THE CONSTRUCTION LIMITS DURING THE CONSTRUCTION OF THIS PROJECT SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

THE CONTRACTOR SHALL IMPLEMENT SOIL EROSION AND SEDEMENTATION CONTROL MEASURES AT HIS OWN EXPENSE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO ENVIRONMENTAL PROTECTION AGENCY AND AS STATED IN THE PROJECT SPECIFICATIONS.

THE PRESERVATION OF PROPERTY CORNERS AND SURVEY MARKERS: THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS. OR ANY OTHER TYPE OF LAND MONUMENT. THE CONTRACTOR SHALL HAVE ALL LAND MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. THE CONTRACTOR SHALL REPLACE DESTROYED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

PAVEMENT CUTTING: ALL ASPHALT AND CONCRETE ITEMS, AND PAVEMENT SHALL BE NEATLINE SAW CUT.

THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID TO PERSONALLY ASCERTAIN THE CONDITIONS OF THE WORK.

UPON COMPLETION OF CONSTRUCTION, THE WORK AREA SHALL BE RETURNED AS NEAR AS POSSIBLE TO ITS ORGINAL CONDITION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MATERIAL TESTING AND ALL PERMITS REQUIRED FOR THIS PROJECT.

SANITARY SEWERS:

ALL HDPE PIPE TO BE DR 17 MIN.

THE EXISTING FORCE MAIN AND PUMP STATION IS TO REMAIN IN SERVICE UNTIL THE NEW PUMP STATION AND FORCE MAIN HAS BEEN INSTALLED AND TESTED.

ANY BYPASS PUMPING REQUIRED IS THE RESPONSIBILITY OF THE CONTRACTOR.

ALL SANITARY SEWERS MUST HAVE PREMIUM JOINTS AND THE ENTIRE SYSTEM MUST PASS BOTH AN EXFILTRATION AND AN INFILTRATION TEST AFTER CONSTRUCTION HAS BEEN COMPLETED. THE MAXIMUM ALLOWABLE RATE OF INFILTRATION AND EXFILTRATION SHALL BE 100 GAL. PER INCH DIAMETER OF SEWER PIPE PER MILE PER DAY.

AIR TESTING IN ACCORDANCE WITH ASTM F-1417 WILL ALSO BE ACCEPTABLE.

MANHOLES MUST BE AIR TESTED IN ACCORDANCE WITH ASTM C-1244.

NO SANITARY MANHOLES AND PREFERABLY NO SANITARY CONNECTIONS ARE TO BE CONSTRUCTED IN SIDEWALKS AND/OR DRIVEWAYS.

DEFLECTION TESTING OF THE PIPE SHALL BE REQUIRED. THE MAX. ALLOWABLE DEFLECTION

CLEAN WATER CONNECTIONS TO THE SANITARY SEWER WILL NOT BE PERMITTED.

UTILITIES

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. AND AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

UNDERGROUND BUILDING SERVICE UTILITY LINES ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE RESPECTIVE UTILITY COMPANIES TO LOCATE, MAINTAIN AND REPLACE AS NECESSARY TO ENSURE CONTINUAL SAFE SERVICE TO EACH BUILDING.

THE CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES FOR THE RELOCATION OF EXISTING GAS LINES, WATER LINES, BURIED ELECTRIC LINES, PHONE LINES, AND CABLE LINES. ANY COST TO RELOCATED THESE UTILITY LINES SHALL BE IN THE PRICE BID PER LINEAL FOOT OF SEWER PIPE.

THE CONTRACTOR WILL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE ENGINEER, PLAN SHEET. THE EXISTING GROUND PROFILE IS OVER THE CENTERLINE OF THE PROPOSED SEWER. PLEASANT CITY AND ALL RESPECTIVE UTILITY COMPANIES PRIOR TO BEGINNING ANY WORK IN THE AREAS WHERE THE SEWER LINE MAY BE IN CONFLICT WITH ANY UTILITY LINES, AS NOTED ON THE PLAN SHEETS.

THE UTILITY OWNERSHIPS ARE AS FOLLOWS:

STORM SEWER/ SANITARY SEWER VILLAGE OF WELLSVILLE 1200 MAIN ST. WELLSVILLE, OHIO 43968 (330)532 - 2510

ELECTRICAL AMERICAN ELECTRICAL POWER ATTN: BOB BORIS 16203 ANNESLEY ROAD EAST LIVERPOOL, OH 43920 (330)382 - 1475

WATER BUCKEYE WATER DISTRICT ATTN: MARCUS DALRYMPLE 1925 CLARK AVE. WELLSVILLE, OH 43968 (330)532 - 2448

COLUMBIA GAS ATTN: TIM SEECH 300 LURAY DRIVE WINTERSVILLE, OH 43953 (740)630-8709

TELEPHONE/CABLE AT&T OHIO ATTN: HAROLD MAYNARD 2933 SALT SPRINGS RD. YOUNGSTOWN, OH 44509 (330)270 - 8816

TELEPHONE/CABLE COMCAST ATTN: CRAIG TRACY 100 WELDAY AVE., SUITE A WINTERSVILLE, OH 43953 (740)346 - 2250

SEEDING AND MULCHING/EROSION AND SEDIMENTATION CONTROL SEDIMENT CONTROL SHALL BE ACCOMPLISHED BY SEEDING AND MULCHING IMMEDIATELY UPON COMPLETION OF EXCAVATION OR FILL AND FINISHED GRADING, CONSTRUCTION AND MATERIALS SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

THE FOLLOWING MIXTURE SHALL BE USED:

SEED - 5 LBS. PER 1000 S.F. KENTUCKY BLUEGRASS - 40% CREEPING RED FESCUE - 40% PERENNIAL RYEGRASS - 20%

FERTILIZER - 20 LBS. PER 1000 S.F. (12-12-12)

MULCH - 3 TONS PER ACRE

RESTORATION OF ALL DISTURBED AREAS SHALL IMMEDIATELY FOLLOW EXCAVATION AND GRADING OPERATIONS. DELAY IN RESTORATION SHALL NECESSITATE TEMPORARY EROSION CONTROL MEASURES APPROVED BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES AND OTHER AREAS AS SHOWN ON PLANS SHALL BE PROPERTY RESTORED WITH 6" OF TOPSOIL, SEEDING AND MULCHING

CONTOURS IN ALL DISTURBED AREAS WILL BE RESTORED IN A MANNER THAT MAINTAINS EXISTING DRAINAGE PATTERNS, FOLLOWED BY SEEDING AND MULCHING. IF, DUE TO WEATHER, FINAL GRADING CANNOT BE ACCOMPLISHED IMMEDIATELY, TEMPORARY SEEDING, WITHIN THIRTY DAYS, WILL BE USED UNTIL FINAL RESTORATION CAN OCCUR.

ALL DISTURBED DRAINAGE CHANNELS, SWALES, DITCHES AND BERMS SHALL BE RESTORED TO THEIR ORIGINAL SHAPE AND GRADE OR AS SHOWN ON THE CONTRACT DRAWINGS. ALL DISTURBED DRIVE CULVERTS SHALL BE REPLACED IN THEIR ORIGINAL LOCATION AND GRADE.

ALL WORK SHALL BE COMPLETED PRIOR TO THE RELEASE OF FUNDS FOR GRADING.

MAINTENANCE OF TRAFFIC

PLACEMENT OF ASPHALT CONCRETE: TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT TWO-WAY ONE LANE TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, SATISFACTORY BARRIERS, LIGHTING, FLAGMEN, TEMPORARY GUARDRAIL, AND SUCH OTHER TRAFFIC CONTROL DEVICES AS PROVIDED IN THE OHIO DEPARTMENT OF TRANSPORTATION GUIDELINES SO AS TO AVOID DAMAGE AND/OR INJURY TO VEHICLES AND PERSONS USING THE ROADWAY DURING CONSTRUCTION.

PAYMENT FOR LABOR AND EQUIPMENT REQUIRED FOR THE CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL OF APPROACHES, CROSSOVERS, DRIVEWAYS, BARRICADES, LIGHTS, SIGNS, AND SIGN SUPPORTS, SHALL BE INCLUDED IN THE PRICE BID FOR THIS CONTRACT.

EARTHWORK OPERATIONS

THE DESIGNATED AREAS OF EXCAVATION AND FILL SHALL BE CLEARED AND STRIPPED BY THE CONTRACTOR PRIOR TO THE START OF ANY EARTH WORK OPERATIONS.

THE CONTRACTOR SHALL STRIP ALL TOPSOIL FROM THE RIGHT-OF-WAY AND OTHER WORK AREAS AND STOCKPILE THE TOPSOIL IN THE AREAS DESIGNATED BY THE OWNER FOR

CLEARING AND GRUBBING SHALL BE PERFORMED WITHIN THE ENTIRE RIGHT-OF-WAY AND EASEMENT AREAS. CLEARING AND GRUBBING SHALL ALSO INCLUDE TREE REMOVAL

THE CONTRACTOR SHALL PLACE AND COMPACT ALL SUITABLE FILL MATERIAL EXCAVATED DURING HIS CONSTRUCTION OPERATIONS WITHIN THE FILL AREAS DESIGNATED ON THE IMPROVEMENT PLANS. THE FINAL GRADE OF THE EXCAVATED AND FILLED AREAS SHALL CORRESPOND TO THE PROPOSED GRADES AS SHOWN ON THE PLANS. EMBANKMENT SHALL BE PERFORMED AND TESTED IN ACCORDANCE WITH O.D.O.T. ITEM 203, WITH ADDITIONAL DIRECTION FROM THE OWNER'S GEOTECHNICAL ENGINEER.

PAVEMENT

ALL PAVEMENT DETAILS, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE LATEST STATE OF OHIO DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIALS SPECIFICATIONS", OR AS MODIFIED BY THE CONTRACT DRAWINGS OR THE SPECIFICATIONS. IN THE EVENT OF A DISCREPANCY THE CONTRACT DRAWINGS SHALL SUPERSEDE THE ODOT SPECIFICATIONS.

PAVEMENT WORK ZONE LENGTHS SHALL BE KEPT TO AN ABSOLUTE TRAFFIC SHALL NOT BE EXPOSED TO LONGITUDINAL VERTICAL FACES DURING NON-WORKING HOURS.

TRANSVERSE VERTICAL FACES SHALL BE TEMPORARILY RAMPED A MINIMUM OF 10 FOOT IN LENGTH.

ALL CASTINGS SHALL BE ADJUSTED TO GRADE PRIOR TO THE 404 SURFACE COURSE BEING PUT DOWN. THE CASTING ELEVATION DIFFERENTIAL WITH THE SURROUNDING PAVEMENT SHALL NOT BE GREATER THAN 1 INCH WHEN EXPOSED TO TRAFFIC.

ANY NECESSARY CLEANING ALONG THE CURB, INCLUDING DEBRIS REMOVAL. SHALL BE INCLUDED IN THE COST OF PAVEMENT PLANING.

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND AND PROFILE OF THE EXISTING PAVEMENT. THE PROPOSED ASPHALT CONCRETE OVERLAY SHALL HAVE A MINIMUM THICKNESS OF TWO (2) INCHES.

THE RATE OF APPLICATION OF THE 407 TACK COAT SHALL BE SUBJECT TO ADJUSTMENT AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AN AVERAGE APPLICATION RATE OF 0.1 GALLONS PER SQUARE YARD OF TACK COAT FOR ESTIMATING PURPOSES ONLY.

ALL CASTINGS, EXCEPT THOSE OWNED BY PRIVATE COMPANIES, SHALL BE ADJUSTED BY THE CONTRACTOR. THE TIME BETWEEN ADJUSTING THE CASTINGS AND RESURFACING SHALL BE KEPT TO AN ABSOLUTE MINIMUM. ESTIMATED QUANTITIES ARE SHOWN ON THE GENERAL SUMMARY.

ALL WATER METER MANHOLES AND VALVES SHALL BE ADJUSTED TO GRADE BY THE USE OF ADJUSTING RINGS SUPPLIED BY SOUTHERN COLUMBIA COUNTY REGIONAL WATER DISTRICT.



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