

BENCHMARK #1:
SANITARY MANHOLE #1
 T/RIM = EL 150.00
 (CANTON CITY DATUM)

BENCHMARK #2:
SANITARY MANHOLE #5
 T/RIM = EL 112.33
 (CANTON CITY DATUM)

CONTRACTOR SHALL ESTABLISH A NEW BENCHMARK PRIOR TO CONSTRUCTION. NEW BENCHMARK ELEVATION SHALL BE RELATIVE TO BENCHMARKS #1 AND #2.

SEE APPENDIX "F" FOR EXISTING MANHOLE PHOTOS

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NO.	DESCRIPTIONS	DATE	BY
1	REVISIONS BY CITY OF CANTON	7/24/2013	DJH

DESIGNED BY: TMK
 DRAWN BY: JAM
 CHECKED BY: TMK
 APPROVED BY: RWR

CITY OF CANTON, OHIO
 TRINITY PLACE & CAPRICE AVE NW
 SANITARY MANHOLE REHABILITATION
 G.P. #1174
 PROJECT LOCATION MAP



JOB NO. E11025
DATE 8/23/2012
SCALE NOT TO SCALE
SHEET NO. 1 OF 8

I. PRECONSTRUCTION INCIDENTALS

(A) PROJECT SPECIFICATIONS/REQUIREMENTS:

ALL WORK REQUIRED TO COMPLETE THIS IMPROVEMENT SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF CANTON AND SPECIFICATIONS/REQUIREMENTS OF THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIAL SPECIFICATIONS, EXCEPT AS HEREBY AMENDED. IN THE CASE OF A CONFLICT BETWEEN THE CITY OF CANTON AND THE OHIO DEPARTMENT OF TRANSPORTATION SPECIFICATIONS/REQUIREMENTS, THE CITY OF CANTON REQUIREMENTS WILL TAKE PRECEDENCE, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

THE DEVELOPER/CONTRACTOR SHALL COMPLY WITH THE CITY OF CANTON SUPPLEMENTAL SPECIFICATION 01-00 PROJECT DOCUMENTATION AND SUBMITTAL REQUIREMENTS.

(B) ADMINISTRATIVE REQUIREMENTS:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COMPLYING WITH ALL THE ADMINISTRATIVE DUTIES HEREIN CONTAINED.

THE DEVELOPER/CONTRACTOR SHALL DESIGNATE TO THE CITY AN EMPLOYEE RESPONSIBLE FOR CORRESPONDENCE, NOTIFICATIONS, AND SUBMITTALS PERTINENT TO THE PROJECT.

(C) RECONSTRUCTION MEETING:

A RECONSTRUCTION MEETING WITH THE DEVELOPER, CONTRACTOR REPRESENTATIVES OF ALL UTILITY COMPANIES, THE CITY OF CANTON ENGINEERING DEPARTMENT AND THE CITY OF CANTON WATER DEPARTMENT IS REQUIRED FOR THIS PROJECT PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

FOR SUBDIVISION DEVELOPMENTS, THE DEVELOPER SHALL CONTACT THE CITY ENGINEER'S OFFICE TO ARRANGE A MEETING DATE. THE DEVELOPER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

FOR CITY GENERAL PROJECTS, THE CITY ENGINEER WILL CONTACT THE CONTRACTOR TO ARRANGE A MEETING DATE. THE CITY ENGINEER WILL CONTACT THE ABOVE AGENCIES TO CONFIRM THE MEETING DATE.

IF THE PROPOSED PROJECT LAND-DISTURBANCE AREA IS ONE (1) OR MORE ACRES, A SEPARATE PRE-CONSTRUCTION MEETING IS ALSO REQUIRED. THIS MEETING SHALL OCCUR ON-SITE BETWEEN THE CONTRACTOR AND THE STARK SOIL & WATER CONSERVATION DISTRICT (SWCD). THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING THIS MEETING. NO LAND-DISTURBANCE ACTIVITIES SHALL START UNTIL SAID MEETING HAS OCCURRED AND APPROVAL HAS BEEN GRANTED BY STARK SWCD.

(D) PROJECT SAFETY:

THE CONTRACTOR SHALL MAINTAIN A SAFE WORKING ENVIRONMENT AT THE PROJECT SITE AT ALL TIMES. THE CONTRACTOR SHALL PROPERLY SUPPORT AND/OR MAINTAIN ALL EXCAVATIONS PER APPLICABLE SAFETY REQUIREMENTS AND COMPLY WITH ALL O.S.H.A. REGULATIONS. APPROPRIATE BARRICADES, WARNING LIGHTS, SIGNS, FENCING, ETC. SHALL BE ERECTED AROUND THE CONSTRUCTION AREA DURING ALL NON-WORKING HOURS TO ALERT PERSONS OF THE POTENTIAL DANGER ASSOCIATED WITH THE AREA UNDER CONSTRUCTION AS WELL AS TO PREVENT ACCESS BY UNAUTHORIZED PERSONNEL TO THE CONSTRUCTION SITE/AREA. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THE SAFETY OF THE GENERAL PUBLIC AS WELL AS ALL CONSTRUCTION PERSONNEL. PUBLIC STREETS SHALL BE KEPT CLEAN AND FREE OF DEBRIS (MUD, STONE, ETC.) AT ALL TIMES. THE CONTRACTOR SHALL ALERT ALL LOCAL EMERGENCY AGENCIES (FIRE, POLICE, AMBULANCE, ETC.) OF THE NATURE OF THE PROPOSED PROJECT PRIOR TO BEGINNING AND CONSTRUCTION ACTIVITY. ACCESS FOR EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.

(E) UNDERGROUND UTILITIES:

THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS WERE OBTAINED BY FIELD OBSERVATIONS, FROM EXISTING RECORDS, AND/OR FROM THE OWNERS OF THE RESPECTIVE UTILITIES. THE INFORMATION AS SHOWN IS BELIEVED TO BE CORRECT; HOWEVER, THE COMPLETENESS AND ACCURACY OF THIS INFORMATION CANNOT BE GUARANTEED. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT ALL THE VARIOUS UTILITY COMPANIES (PUBLIC AND PRIVATE) TO VERIFY THE EXISTENCE, LIMITS AND/OR LOCATION OF ANY UTILITIES WHICH MAY BE ALONG THE ROUTE OR WITHIN THE VICINITY OF THIS IMPROVEMENT.

(F) UTILITY NOTIFICATION:

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING OPERATIONS ON THIS PROJECT, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER, THE REGISTERED UTILITY PROTECTION AGENCY/SERVICE, AND THE OWNERS OF ANY OTHER UTILITIES (PUBLIC AND/OR PRIVATE) THAT MAY HAVE UTILITY LINES OR FACILITIES WITHIN THE VICINITY OF THIS PROJECT BUT WHO ARE NOT MEMBERS OF THE REGISTERED UTILITY PROTECTION SERVICE. THE OWNERS OF ANY UNDERGROUND UTILITY FACILITY SHALL, WITHIN 48 HOURS AFTER NOTICE IS RECEIVED, EXCLUDING SATURDAYS, SUNDAYS AND OTHER LEGAL HOLIDAYS, STAKE, MARK OR OTHERWISE DESIGNATE THE EXISTENCE AND/OR LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING AND/OR LOCATING SHALL BE COORDINATED TO START APPROXIMATELY TWO WORKING DAYS AHEAD OF THE PLANNED CONSTRUCTION. OHIO UTILITIES PROTECTION SERVICE: 1-800-362-2764 (CONTACT NON-MEMBERS DIRECTLY).

THE PRIMARY UTILITIES WITHIN THE CITY OF CANTON AREA:

NATURAL GAS DIST./TRANS. DOMINION EAST OHIO GAS 320 SPRINGSIDE DR. AKRON, OHIO 44333 330-664-2409	TELEPHONE AT&T 50 WEST BOWERY STREET AKRON, OHIO 44308 ATTN: RICH WILSON 330-384-2245 CINDY ZUCHEGNO 330-384-3561 EMERGENCY NO. 1-800-521-4400
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COMMUNICATIONS CABLE TIME WARNER CABLE 5520 WHIPPLE AVE. N.W. NORTH CANTON, OHIO 44720 330-494-9200 ext. 330-555-3003 ATTN: JUSTIN FREUDEMAN 330-492-9200 X3305353192 330-472-4449(CELL)	ELECTRIC AMERICAN ELECTRIC POWER 301 CLEVELAND AVE. S.W. P.O. BOX 24400 CANTON, OHIO 44701-4400 330-438-7739 ATTN: DWIGHT PARRISH 330-492-9200 1-800-672-2017
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SEWAGE AND STORM SEWER CITY ENGINEER'S OFFICE 2436-30TH ST. N.E. CANTON, OHIO 44705 330-489-3381 ATTN: DAN MOEGLIN	WATER WATER DEPARTMENT 2664 HARRISBURG RD. N.E. CANTON, OHIO 44708 330-489-3381 ATTN: LEWIS MILLER
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THE CITY ENGINEER'S OFFICE IS TO BE CONTACTED DIRECTLY FOR SANITARY AND STORM SEWER AND TRAFFIC INTERCONNECT FACILITIES LOCATION: 330-489-3381.

(G) PROPOSED PUBLIC UTILITY LOCATION IN PROPOSED SUBDIVISIONS:

THE DEVELOPER/CONTRACTOR AND REPRESENTATIVES OF THE CITY OF CANTON SHALL MEET WITH REPRESENTATIVES OF THE VARIOUS PUBLIC UTILITY COMPANIES (EAST OHIO GAS, AMERICAN ELECTRIC POWER, AMERITECH, WARNER CABLE, ETC.) TO DETERMINE THE APPROPRIATE LOCATION FOR THESE UTILITIES WITHIN THE PROJECT SITE. ONCE AN AGREEMENT HAS BEEN REACHED, IT SHALL BE THE RESPONSIBILITY OF THE UTILITY OWNERS TO INSPECT THE INSTALLATION OF THE VARIOUS PUBLIC UTILITY LINES WITHIN THE ROAD RIGHT-OF-WAY TO ENSURE THAT CONFLICTS ARE AVOIDED AND ADEQUATE CLEARANCE AND OFFSETS WITH OTHER UTILITIES ARE MAINTAINED. UTILITY COMPANIES SHALL SUBMIT PLANS INDICATING THEIR PROPOSED IMPROVEMENTS AND FACILITIES TO THE CITY OF CANTON FOR APPROVAL. THE SITE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE INSTALLATION OF THE OTHER UTILITIES NOT OWNED BY THE CITY.

(H) EXPLORATORY BORINGS:

EXPLORATORY SOIL BORING INFORMATION IS NOT THE RESPONSIBILITY OF THE CITY OF CANTON. IT IS THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO REVIEW ANY AND ALL INFORMATION AVAILABLE. IF DEVELOPER/CONTRACTOR REQUESTS TO DRILL AND/OR EXCAVATE WITHIN THE CITY'S R/W, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AT LEAST 3 WORKING DAYS PRIOR TO THIS WORK. THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UTILITY NOTIFICATION, AS SPECIFIED, ALL TRAFFIC CONTROL, PREMIUM BACKFILL, AND COMPACTION AND RESTORATION, AS NECESSARY.

(I) CONTINGENCY QUANTITIES:

WHEN SPECIFIED ON PLANS OR SPECIFICATIONS, CONTINGENCY QUANTITIES ARE TO BE PERFORMED ONLY UNDER DIRECTION OF THE CITY ENGINEER. THE DEVELOPER/CONTRACTOR SHALL NOT ORDER ANY CONTINGENCY MATERIAL OR PERFORM ANY WORK UNTIL DIRECTED BY THE ENGINEER. THE ACTUAL WORK LOCATION AND QUANTITIES FOR SUCH ITEMS SHALL BE DOCUMENTED BY THE DEVELOPER/CONTRACTOR AND THE ENGINEER.

II. CONSTRUCTION INCIDENTALS

(A) PLAN DISCREPANCIES:

ANY DISCREPANCIES FROM THE PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER SO THAT THE APPROPRIATE ADJUSTMENTS IN ALIGNMENT AND/OR GRADE MAY BE MADE PRIOR TO THE START OF CONSTRUCTION OR THE CONTINUATION OF THE SAME.

FAILURE BY THE DEVELOPER/CONTRACTOR TO VERIFY AND/OR DETERMINE EXISTING INFORMATION AS INDICATED WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ANY CHANGES NECESSARY TO COMPLETE THE WORK SPECIFIED WITHOUT ADDITIONAL COMPENSATION.

(B) VERIFICATION OF UNDERGROUND UTILITIES:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE EXISTENCE AS WELL AS THE ACTUAL LOCATION, ALIGNMENT, AND ELEVATIONS OF ALL EXISTING UTILITIES/FACILITIES WITHIN AND/OR ADJACENT TO THE GENERAL LIMITS OF THESE IMPROVEMENTS INCLUDING WATERLINES, SANITARY AND STORM SEWERS, GAS LINES, COMMUNICATION LINES/BANKS, ELECTRIC LINES, ETC. THIS MAY REQUIRE EXPLORATORY EXCAVATIONS TO BE PERFORMED BY THE CONTRACTOR FOR WHICH HE WILL NOT BE REIMBURSED. THE CONTRACTOR SHALL NOT ASSUME THAT EXISTING UTILITIES/CONDUITS WERE INSTALLED AT TYPICAL/STANDARD DEPTHS OR AT UNIFORM SLOPES/GRADES/DEPTHS BETWEEN ACCESS POINTS (CATCH BASINS, MANHOLES, JUNCTION CHAMBERS, ETC.)

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO INSTALL THE PROPOSED CONDUIT.

(C) PROTECTION OF UTILITIES:

THE DEVELOPER/CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES ENCOUNTERED DURING THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS AS APPROVED BY THE OWNERS OF THE UTILITY AND THE CITY ENGINEER.

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO CLOSELY COORDINATE THEIR WORK WITH ALL UTILITY COMPANIES. ANY POTENTIAL DELAYS WILL NOT BE THE RESPONSIBILITY OF THE CITY.

THE CONTRACTOR SHOULD EXPECT AT A MINIMUM ONE SANITARY SEWER LATERAL, ONE ROOF DRAIN, ONE WATER SERVICE, AND ONE GAS SERVICE FOR EACH LOT. ANY OF THE ABOVE UTILITIES DAMAGED DUE TO THE CONTRACTOR'S WORK SHALL BE RESTORED TO THE UTILITY OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(D) MAINTENANCE OF UTILITY SERVICES:

THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN UTILITY SERVICES AT ALL TIMES.
WATER SERVICE MAY BE INTERRUPTED FOR LIMITED PERIODS (4 HOURS MAXIMUM) DURING CONNECTION BETWEEN EXISTING WATER LINES AND RELOCATED/NEW WATER MAINS WHICH CANNOT BE COMPLETED OTHERWISE. NO SHUT DOWN SHALL OCCUR WITHOUT WRITTEN PERMISSION OF THE CITY OF CANTON WATER DEPARTMENT. PROPERTY OWNERS AFFECTED BY APPROVED INTERRUPTED SERVICE SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR.

STORM SEWER AND SANITARY SEWER SERVICES SHALL BE MAINTAINED WITHOUT INTERRUPTION, UNLESS APPROVED BY THE CITY ENGINEER.

IN THE EVENT THAT CONSTRUCTION DISRUPTS THE FLOW OF A SANITARY SEWER, THE CONTRACTOR SHALL IMMEDIATELY RECTIFY THE DISRUPTED SEWER BY EITHER TEMPORARILY FLOWING WITH MATERIALS ACCEPTABLE TO THE ENGINEER OR BYPASSING WITH PUMPS. COST OF MAINTAINING AND REPAIR OF SANITARY SEWERS DISTURBED BY CONSTRUCTION SHALL BE AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIFICATIONS.

(E) CONSTRUCTION NOISE:

CONSTRUCTION NOISE ASSOCIATED WITH ANY IMPROVEMENT PROJECT SHALL BE LIMITED TO LEVELS COMMENSURABLE WITH ADJOINING LAND AND THEIR ASSOCIATED USAGE AS DETERMINED BY THE CITY ENGINEER. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, ANY POWER-OPERATED CONSTRUCTION-TYPE DEVICES SHALL NOT BE OPERATED BETWEEN THE HOURS OF 7:00 P.M. AND 7:00 A.M. UNLESS AUTHORIZED BY THE CITY ENGINEER.

(F) OPEN TRENCH CONSTRUCTION:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION/TRENCHING PRACTICES FOR THE PROPOSED IMPROVEMENT, OR AS FURTHER SHOWN ON THE PLANS AND SPECIFICATIONS.

THE DEVELOPER/CONTRACTOR SHALL FOLLOW ALL APPLICABLE LOCAL AND STATE SAFETY REGULATIONS, INCLUDING CODE OF FEDERAL REGULATIONS, PART 1926 (SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION), SUBPART P (EXCAVATIONS), FOR ALL APPLICABLE REQUIREMENTS AND RESPONSIBILITIES.

PRIOR TO COMMENCING CONSTRUCTION, THE DEVELOPER/CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF THE PROJECT'S ASSIGNED "COMPETENT PERSON" IN OSHA EXCAVATION STANDARDS.

(G) TRENCH CLOSING AND TEMPORARY TOPPING:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NECESSARY LEVELS OF PROTECTION AND SAFEGUARDING OF ALL OPEN TRENCHES, WHEN WORK IS EITHER COMPLETED AT THE END OF THE DAY OR SUSPENDED FOR ANY OTHER REASON.

FOR TRENCH SURFACE REQUIREMENTS, REFER TO NOTE 4 ON CITY STANDARD DRAWING NO. 19.

(H) DUST CONTROL:

THE DEVELOPER/CONTRACTOR SHALL FURNISH AND APPLY WATER AND CALCIUM CHLORIDE FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. SUFFICIENT QUANTITIES OF CALCIUM CHLORIDE SHALL BE STORED ON THE JOB SITE AT ALL TIMES TO BE USED FOR DUST CONTROL.

(I) TESTING OF UTILITIES:

ALL NEWLY CONSTRUCTED WATERLINES AND SANITARY SEWERS (INCLUDING LATERALS) MUST BE INSTALLED AND TESTED IN ACCORDANCE WITH APPLICABLE STANDARDS (AWWA, ETC.) PER THE OHIO ENVIRONMENTAL PROTECTION AGENCY, AND PER THE REQUIREMENTS OF THE CITY OF CANTON WATER AND ENGINEERING DEPARTMENTS.

SANITARY SEWERS SHALL BE TESTED BY DEVELOPER/CONTRACTOR IN ACCORDANCE WITH THE CITY OF CANTON'S SUPPLEMENTAL SPECIFICATIONS:

- 02-00 TESTING FOR EXCESSIVE DEFLECTION FOR NON-PRESSURE THERMOPLASTIC SEWER PIPE.
- 03-00 TESTING PRACTICES FOR LOW-PRESSURE AIR TESTING OR INSTALLED, NON-PRESSURE, THERMOPLASTIC SEWER PIPE.
- 04-01 STANDARD TEST METHOD FOR CONCRETE SEWER MANHOLES BY THE NEGATIVE AIR PRESSURE TEST.
- SANITARY AND STORM SEWERS CONSTRUCTED WITH THIS PROJECT SHALL BE TESTED BY THE DEVELOPER/CONTRACTOR ONLY WHEN A PAY ITEM IS PROVIDED IN ACCORDANCE WITH CITY OF CANTON'S SUPPLEMENTAL SPECIFICATION:
- 06-01 SEWER TELEVISION INSPECTION AND DOCUMENTATION PROCEDURE.



CITY OF CANTON, OHIO
TRINITY PLACE & CAPRICE AVE NW
SANITARY MANHOLE REHABILITATION
G.P. #1174

GENERAL NOTES

DESIGNED BY	REVISIONS				
	NO.	DESCRIPTIONS	DATE	BY	APP'D
TMK	1	CITY OF CANTON REVISIONS	7/24/2013	D.H.	D.H.
DRAWN BY					
JAM					
CHECKED BY					
TMK					
APPROVED BY					
RWR					

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JOB NO.	E11025
DATE	8/23/2012
SCALE	NOT TO SCALE
SHEET NO.	2 OF 8

II. CONSTRUCTION INCIDENTALS (continued)

(J) PRESERVATION AND RESTORATION OF DISTURBED FEATURES: EXISTING DRIVES, BERMS, LAWNS, PAVEMENTS, CURBS, SIDEWALKS, SIGNS, MAILBOXES, FENCES, REMAINING WALLS, LANDSCAPING ITEMS, OR OTHER APPURTENANCES DISTURBED DURING CONSTRUCTION BUT NOT SPECIFICALLY DESIGNATED FOR REMOVAL/REPLACEMENT SHALL BE RESTORED BY THE DEVELOPER/CONTRACTOR AT HIS EXPENSE TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO DISTURBANCE AND TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER.

RESTORATION OF EXISTING ROADWAYS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY, TOWNSHIP, COUNTY, AND/OR OTHER AGENCIES HAVING AUTHORITY. COST FOR THE RESTORATION OF THESE ITEMS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS. NO PUBLIC ROADWAY SHALL BE DISTURBED WITHOUT PRIOR WRITTEN APPROVAL FROM THE GOVERNING AGENCY AND ACQUISITION OF NECESSARY PERMITS.

(K) SALVAGED CASTINGS:

WHEN DIRECTED BY THE CITY ENGINEER, ALL METAL CASTINGS SHALL BE CAREFULLY REMOVED AND STORED ON SITE OR DELIVERED TO A LOCATION DESIGNATED BY THE CITY ENGINEER.

(L) PLUG EXISTING CONDUIT:

THIS ITEM SHALL CONSIST OF THE CONSTRUCTION OF BULKHEADS IN AN EXISTING CONDUIT TO BE ABANDONED. BULKHEADS SHALL CONSIST OF BRICK AND/OR CONCRETE MASONRY WITH A MINIMUM THICKNESS OF 12 INCHES. PAYMENT FOR PLUGGING OF EXISTING CONDUIT FOR ABANDONMENT SHALL BE INCLUDED IN THE UNIT BID OF THE VARIOUS ITEMS OF THE PROJECT.

(M) CONSTRUCTION LAYOUT:

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT UTILIZING PERTINENT PLAN DATA. THE CITY ENGINEER WILL NOT BE RESPONSIBLE FOR STAKING HORIZONTAL OR VERTICAL CONTROL. CONSTRUCTION LAYOUT SHALL BE IN ACCORDANCE WITH ODOT 623 CONSTRUCTION LAYOUT STAKES.

AT THE CITY ENGINEER'S REQUEST, THE CONTRACTOR SHALL MAKE AVAILABLE ALL SURVEY FIELD NOTES FOR REVIEW.

(N) EXISTING MONUMENTATION:

THE CONTRACTOR SHALL PRESERVE ALL CORNERSTONES, IRON PINS, CONCRETE MONUMENTS AND/OR ANY TYPE OF LAND MONUMENT. THE CONTRACTOR SHALL HAVE ALL MONUMENTS IN THE PROXIMITY OF THE WORK REFERENCED. THE CONTRACTOR SHALL REPLACE/RESET ANY DISTURBED OR DAMAGED MONUMENTS AND SHALL FURNISH A CERTIFICATION BY A REGISTERED SURVEYOR THAT THE MONUMENTS HAVE BEEN RESTORED.

(O) ELEVATION DATUM:

ALL ELEVATIONS ARE BASED ON THE NAVD 1988 DATUM.

(P) DEWATERING OPERATIONS:

WHEN DEEMED NECESSARY, THE DEVELOPER/CONTRACTOR MAY INSTALL DEWATERING EQUIPMENT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

THE PROPOSED LOCATION OF WELL POINTS, HEADER PIPE, ELECTRICAL DISTRIBUTION, GENERATORS AND DISCHARGE PIPES, ETC. SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

THE DEVELOPER/CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS FOR THE INSTALLATION AND SUBSEQUENT REMOVAL OF DEWATERING EQUIPMENT AS WELL AS PROPER WATER DISCHARGE PROCEDURES AS MAY BE REQUIRED PER STATE AND LOCAL GOVERNING AGENCIES.

INSTALLATION OF ALL ELECTRICAL EQUIPMENT INCLUDING GROUNDING AND PROTECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR.

DEVELOPER/CONTRACTOR SHALL PROVIDE ALL COMBUSTIBLE ENGINE DRIVEN GENERATORS WITH "HOSPITAL GRADE" MUFFLERS. MUFFLERS SHALL BE RATED AT A MAXIMUM OF 67 DB AT 23 FEET AWAY RUNNING FULL LOAD.

(Q) INSPECTION:

FOLLOWING THE PRE-CONSTRUCTION MEETING(S) AND ESTABLISHMENT OF AN APPROVED SCHEDULE, THE CONTRACTOR SHALL GIVE A MINIMUM 48 HOUR NOTICE BEFORE STARTING ANY WORK ON THIS PROJECT AND SHALL KEEP THE CITY INFORMED OF HIS/HER CONSTRUCTION SCHEDULE. ALL WORK REQUIRED FOR THIS IMPROVEMENT SHALL BE SUBJECT TO INSPECTION BY THE CITY OF CANTON OR THEIR DESIGNATED REPRESENTATIVE. NO WORK SHALL BE PERFORMED WITHOUT AN AUTHORIZED INSPECTOR PRESENT, UNLESS OTHERWISE APPROVED.

(R) FIELD OFFICE:

IF A PAY ITEM IS PROVIDED, THE DEVELOPER/CONTRACTOR SHALL PROVIDE A FIELD OFFICE IN ACCORDANCE WITH ODOT 619. THE FIELD OFFICE SHALL BE TYPE 'A', UNLESS OTHERWISE SPECIFIED.

III. EARTHWORK / SITE WORK

(A) EASEMENTS AND RIGHT-OF-WAY:

THE DEVELOPER/CONTRACTOR SHALL STAY WITHIN THE DESIGNATED PROPERTIES, EASEMENTS, AND/OR RIGHT-OF-WAY PROVIDED FOR THE PROJECT AT ALL TIMES. NO MATERIAL SHALL BE STORED NOR ANY WORK PERFORMED ON PRIVATE PROPERTY UNLESS OTHERWISE APPROVED. DISTURBANCE OF EXISTING FEATURES AND/OR IMPROVEMENTS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND AS APPROVED BY THE CITY ENGINEER/PROPERTY OWNER.

(B) SUITABILITY OF SITE:

THE CITY OF CANTON SHALL NOT BE RESPONSIBLE FOR THE TYPE AND/OR SUITABILITY OF THE MATERIAL UNDERLYING THE PROJECT SITE. THE DEVELOPER/CONTRACTOR MUST APPRAISE THEMSELVES OF ANY EXISTING SITE CONDITIONS WHICH MAY AFFECT THEIR BID OR THE PERFORMANCE OF THE REQUIRED WORK. THE DEVELOPER/CONTRACTOR SHALL PERFORM ANY INVESTIGATIONS AND/OR TESTING NECESSARY TO ADEQUATELY DETERMINE/ESTIMATE TO THEIR SATISFACTION ALL SITE CONDITIONS WHICH COULD AFFECT THE PERFORMANCE OF THE PROPOSED IMPROVEMENTS. THIS COULD INCLUDE, BUT NOT BE LIMITED TO, UNSUITABLE AND/OR UNSTABLE SOIL/SUBSURFACE CONDITIONS, ROCK, WATER (PERCHED OR FREE), SPRINGS, ETC.

REFER TO CITY STANDARD DRAWING NO. 19 FOR ADDITIONAL DETAILS.

(C) REMOVAL/REPLACEMENT OF UNSUITABLE MATERIAL:

THE DEVELOPER/CONTRACTOR SHALL UNDERCUT AND REPLACE UNSUITABLE MATERIAL ENCOUNTERED DURING INSTALLATION OF THE PROPOSED UTILITIES AND ROADWAY IN ACCORDANCE WITH CITY STANDARD DRAWING NO. 19.

IV. ROADWAY / DRIVE APPROACHES / WALK / CURB

(A) PAVEMENT STANDARDS:

PAVEMENTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE CITY STANDARD DRAWINGS AND SPECIFICATIONS (LISTED BELOW) AND ODOT SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

CITY STANDARD DRAWING NO.:

- DRIVEWAYS, CURBS AND PAVEMENT
- 27 "DRIVE APPROACH WITH LAWNSTRIP BETWEEN SIDEWALK & CURB"
- 28 "DRIVE APPROACH WITH SIDEWALK AGAINST CURB"
- 29 "COMBINED CURB & WALK"
- 30 "CONCRETE CURB AND COMBINED CURB & GUTTER"
- 31 "BRICK PAVEMENT REPAIR & REPLACEMENT OVER TRENCHES/ALONG CURB"
- 32 "TYPICAL SECTION - LOCAL STREET"
- 33 "WHEELCHAIR RAMP"
- 34 "PAVEMENT TRANSITION, BRICK-ASPHALT"
- CITY STREETScape
- 40 "TYPICAL STREETScape CORRIDOR"
- 41 "ROADWAY BRICK & CROSSWALK PAVEMENT DETAILS"
- 42 "STREETScape CONCRETE WALK PAVEMENT DETAILS"
- 43 "CONCRETE WALK OVER VAULT CONSTRUCTION DETAILS"
- 44 "BRICK WALK OVER VAULT CONSTRUCTION DETAILS"

CITY SPECIFICATIONS:

"CITY OF CANTON SPECIFICATIONS FOR THE CONSTRUCTION, REPAIR, AND REPLACEMENT OF SIDEWALKS, CURBS, AND DRIVEWAYS"

(B) RESTRICTED WORK SCHEDULE:

NO CONCRETE FINISH WORK OR PERMANENT ASPHALT SHALL BE PLACED FROM NOVEMBER 15TH TO APRIL 15TH UNLESS WRITTEN APPROVAL IS GRANTED BY THE CITY ENGINEER.

(C) ASPHALT/CONCRETE:

IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO NOTIFY THE ENGINEER 48 HOURS IN ADVANCE OF BEGINNING WORK WHICH REQUIRES COMPACTION TESTING AND/OR PRE-POUR INSPECTION PRIOR TO PLACEMENT OF ASPHALT OR CONCRETE. WORK SHALL NOT PROCEED UNTIL TESTING AND/OR INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE CITY ENGINEER.

V. SANITARY SEWERS / STORM SEWERS

(A) SEWER STANDARDS:

ALL SANITARY/STORM SEWER CONDUITS AND APPURTENANCES SHALL BE CONSTRUCTED ACCORDING TO APPLICABLE CITY STANDARD DRAWINGS AND SPECIFICATIONS (LISTED BELOW) AND ODOT SPECIFICATIONS EFFECTIVE AT THE TIME OF CONSTRUCTION, UNLESS SPECIFIED OTHERWISE ON THE PLANS.

CITY STANDARD DRAWING NO.:

- CATCH BASINS
- 1 "CURB INLET CATCH BASIN"
- 2 "CURB INLET WATER QUALITY CATCH BASIN"
- 3 "HILLSIDE CURB INLET CATCH BASIN"
- 4 "SQUARE-TOP CATCH BASIN"
- 5 "SQUARE-TOP WATER QUALITY CATCH BASIN"
- MANHOLES
- 10 "PRECAST STORM OR SANITARY MANHOLE"
- 11 "OUTSIDE DROP CONNECTION FOR SANITARY MANHOLE"
- 12 "MANHOLE COVER"
- CONDUITS AND TRENCHES
- 18 "HOUSE CONNECTION STACK"
- 19 "UTILITY TRENCH REQUIREMENTS"
- 20 "SANITARY SEWERS AND LATERALS"
- 21 "CONCRETE ENGAGEMENT DETAIL"
- 22 "DOWNSPOUT OUTLET (NON-CURBED STREET)"
- 23 "DOWNSPOUT OUTLET (CURBED STREET)"
- 24 "GROUNDWATER DRAIN LINE CONNECTION"
- DRIVEWAYS CURBS AND PAVEMENT
- 32 "TYPICAL SECTION - LOCAL STREET"

VI. STORM WATER POLLUTION PREVENTION:

(A) FOR PROJECTS ONE (1) ACRE OR MORE OF TOTAL LAND-DISTURBANCE:

THE OWNER/DEVELOPER SHALL APPLY FOR AND OBTAIN AN OHIO EPA NPDES PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY. SAID PERMIT REQUIRES THE PREPARATION AND IMPLEMENTATION OF A STORM WATER POLLUTION PREVENTION PLAN (SWP3) TO ADDRESS CONSTRUCTION SITE STORM WATER RUNOFF AS WELL AS POST-CONSTRUCTION STORM WATER MANAGEMENT. THE SWP3 MUST BE REVIEWED AND APPROVED BY THE STARK COUNTY SOIL & WATER CONSERVATION DISTRICT (SWCD).

THE OWNER/DEVELOPER AND HIS REPRESENTATIVES SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF THE PERMIT AS WELL AS THE SWP3. ALL ACTIVITIES AND PRACTICES SHALL ALSO COMPLY WITH THE CURRENT EDITIONS OF THE CITY OF CANTON STORM WATER MANAGEMENT MANUAL AND THE OHIO DEPARTMENT OF NATURAL RESOURCES' RAINWATER AND LAND DEVELOPMENT MANUAL, AS APPLICABLE. SUCH PROJECTS ARE ALSO SUBJECT TO INSPECTION BY THE CITY OF CANTON AND/OR ITS AUTHORIZED REPRESENTATIVES (I.E. STARK SWCD) TO ENSURE COMPLIANCE WITH PERMIT AND SWP3 REQUIREMENTS AND LOCAL STORM WATER QUALITY REGULATIONS. A PRE-CONSTRUCTION MEETING INITIATED BY THE DEVELOPER/CONTRACTOR IS REQUIRED ON-SITE WITH THE STARK SWCD PRIOR TO ANY LAND-DISTURBING ACTIVITIES. THE DEVELOPER/CONTRACTOR SHALL ABIDE BY ALL ORDERS ISSUED BY THE CITY AND/OR STARK SWCD PURSUANT TO INSPECTION OF THE PROJECT SITE.

IN THE EVENT OF A DISCREPANCY, THE FOLLOWING ORDER OF PRECEDENCE SHALL APPLY:

1. TECHNICAL SPECIFICATIONS
2. PROJECT SPECIFIC DRAWINGS
3. CITY STANDARD DRAWINGS AND SPECIFICATIONS
4. ODOT SPECIFICATIONS

(B) FOR PROJECTS LESS THAN ONE (1) ACRE OF TOTAL LAND-DISTURBANCE:

AN EPA NPDES CONSTRUCTION STORM WATER PERMIT AND SWP3 IS NOT REQUIRED. HOWEVER, THE DEVELOPER/CONTRACTOR SHALL STILL ENSURE THAT APPROPRIATE PRACTICES ARE IN PLACE TO PROVIDE CONSTRUCTION RUNOFF AND EROSION AND SEDIMENT CONTROLS WITHIN THE PROJECT LIMITS. SUCH PRACTICES MAY INCLUDE THE USE OF SILT FENCE, STORM DRAIN INLET PROTECTION, JUTE MATTING, TEMPORARY SEEDING, MULCHING, CHECK DAMS, CONSTRUCTION ENTRANCES, CONCRETE WASHOUT AREAS, ETC. ALL PRACTICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CURRENT EDITION OF THE OHIO DEPARTMENT OF NATURAL RESOURCES' RAINWATER AND LAND DEVELOPMENT MANUAL, AS APPLICABLE.

EROSION AND SEDIMENT CONTROL PRACTICES MUST BE INSTALLED PRIOR TO BEGINNING CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTINUED INSPECTION AND MAINTENANCE OF ALL PRACTICES AND WILL BE HELD RESPONSIBLE FOR ADDRESSING ANY ON- OR OFF-SITE EROSION/SEDIMENT ISSUES RELATED TO THE PROJECT. THE OWNER/DEVELOPER/CONTRACTOR SHALL ABIDE BY ALL ORDERS ISSUED BY THE CITY PURSUANT TO INSPECTION OF THE PROJECT SITE.

VII. TRAFFIC:

(A) MAINTAINING TRAFFIC:

THE CONTRACTOR SHALL MAINTAIN TRAFFIC ADJACENT TO AND THROUGH THE PROJECT AS DESCRIBED BELOW AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE OHIO DEPARTMENT OF TRANSPORTATION MANUAL OF CONSTRUCTION AND MATERIALS SPECIFICATIONS ITEM 614 MAINTAINING TRAFFIC. THE CONTRACTOR SHALL FURNISH, MAINTAIN, AND REMOVE ALL SIGNS, FLAGS, FLAGMEN, WATCHMEN, BARRICADES, SIGN SUPPORTS, CONES, BARRIERS, AND INCIDENTALS IN CONFORMANCE WITH THE MOST RECENT EDITIONS OF THE CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. INTERFERENCE WITH VEHICULAR TRAFFIC SHALL BE KEPT TO A MINIMUM AT ALL TIMES. ALL OPEN TRENCHES AND EXCAVATIONS SHALL BE PROTECTED WITH DRUMS, BARRICADES, OR BARRIERS. ACCESS SHALL BE MAINTAINED AT ALL TIMES FOR EMERGENCY AND FIRE DEPARTMENT VEHICLES.

ANY TEMPORARY ROADWAY CLOSING MUST BE APPROVED IN WRITING BY THE CITY TRAFFIC ENGINEER AND ANY OTHER PUBLIC AGENCY HAVING JURISDICTION. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEER AT LEAST 72 HOURS IN ADVANCE OF ANY SUCH CLOSINGS FOR PUBLICATION AND EMERGENCY AGENCY NOTIFICATION.

(B) RESIDENTIAL AND BUSINESS AREAS:

THE CONTRACTOR SHALL MAINTAIN ACCESS TO LOCAL RESIDENCES AND BUSINESSES DURING CONSTRUCTION. IN THE EVENT A DRIVE ACCESS NEEDS TO BE CLOSED, THE CONTRACTOR SHALL GIVE NOTICE OF CLOSURE AND DURATION TO THE PROPERTY OWNER 24 HOURS IN ADVANCE. THE CONTRACTOR SHALL ARRANGE FOR ALTERNATE PARKING AND REASONABLE ACCESS FOR THOSE PROPERTY OWNERS AFFECTED BY DRIVE CLOSURES.

(C) EXISTING STREET NAME AND TRAFFIC CONTROL SIGNS:

WHERE WORK REQUIRES THE MOVEMENT OF EXISTING SIGNS (STOP SIGNS, SPEED LIMIT SIGNS, NO PARKING SIGNS, ETC.), THE CONTRACTOR IS REQUIRED TO MAINTAIN THE FUNCTION OF ALL TRAFFIC CONTROL SIGNS. ALL SIGNS REMOVED BY THE CONTRACTOR SHALL BE STORED ON SITE AND REINSTALLED BY THE CONTRACTOR.

(D) NEW STREET NAME & TRAFFIC CONTROL SIGNS:

ALL STREET NAME AND TRAFFIC CONTROL SIGNS SHALL COME COMPLETE AND BE MADE IN ACCORDANCE WITH THE CITY OF CANTON SIGN AND PAINT DEPARTMENT SPECIFICATIONS. GENERALLY, ALL SIGNS SHALL HAVE HI-INTENSITY SHEETING AND BE MADE WITH .080 50/52 ALUMINUM. STREET NAME SIGNS SHALL BE MADE WITH WHITE UPPER AND LOWER CASE LETTERING ON GREEN BACKGROUND USING 9" BLANKS, BE DOUBLED SIDED W/RADIUS CORNERS AND HAVE 6" NAME AND 3" SUFFIXES. ALL SIGN RELATED HARDWARE IS TO BE INCLUDED, SUCH AS 6" HEAVY DUTY U-CHANNEL CAPS AND STREET NAME CROSSES.

FOR SUBVISION DEVELOPMENTS, ALL PERMANENT STREET NAME SIGNS AND TRAFFIC CONTROL SIGNS SHALL BE FURNISHED AND INSTALLED BY THE DEVELOPER/CONTRACTOR.

CITY OF CANTON, OHIO
TRINITY PLACE & CAPRICE AVE NW
SANITARY MANHOLE REHABILITATION
G.P. #1174

GENERAL NOTES



220 MARKET AVENUE SOUTH
SUITE 202
CANTON, OH 44702
330-455-7733

DESIGNED BY	REVISIONS				
	NO.	DESCRIPTIONS	DATE	BY	APP'D
TMK	1	CITY OF CANTON REVISIONS	7/24/2013	DJH	DJH
DRAWN BY					
JAM					
CHECKED BY					
TMK					
APPROVED BY					
RWR					

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DATE	8/23/2012
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SHEET NO	3 OF 8

VII. TRAFFIC (continued)

(E) EXISTING TRAFFIC SIGNALS:

WHERE WORK REQUIRES INTERFERENCE WITH EXISTING SIGNALIZATION IN THE INTERSECTIONS, ALL WORK SHALL BE COORDINATED THROUGH THE CITY ENGINEER. THE CONTRACTOR SHALL NOT ALTER ANY SIGNALIZATION WITHOUT THE CITY ENGINEER'S AUTHORIZATION.

(F) NEW TRAFFIC SIGNALIZATION:

ALL NEW OR MODIFIED TRAFFIC SIGNALIZATION AT INTERSECTIONS SHALL BE IN ACCORDANCE WITH CITY TRAFFIC ENGINEERING TRAFFIC CONTROL GENERAL NOTES AND ODOT SPECIFICATIONS; WITH SPECIAL EMPHASIS ON ODOT ITEMS 625, 632, 633, 732, AND 733 WHICH DEALS WITH TRAFFIC CONTROL.

(G) TRAFFIC CONTROL PLAN:

THE DEVELOPER/CONTRACTOR SHALL SUBMIT TO THE CITY ENGINEER A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH CITY SUPPLEMENTAL SPECIFICATION 01-00. DETOURS, IF NECESSARY, SHALL BE APPROVED BY THE CITY ENGINEER PRIOR TO PLAN SUBMISSION.

IX. POST CONSTRUCTION INCIDENTALS

(A) AS-BUILT DRAWINGS:

AS-BUILT REPRODUCIBLE MYLARS SHALL BE PROVIDED TO THE CITY OF CANTON BY THE DESIGN ENGINEER AT THE COMPLETION OF THE PROJECT. AS-BUILT INFORMATION CONSISTS OF POST-CONSTRUCTION FIELD SURVEY DATA OF THE LOCATION, FLOWLINE ELEVATIONS, AND TOP-OF-GRADE/RIM ELEVATIONS FOR ALL STORM AND SANITARY STRUCTURES CONSTRUCTED AND/OR IMPACTED BY THE PROJECT.

FOR PRIVATE PROJECTS, THE CONSTRUCTION BOND WILL NOT BE RELEASED UNTIL THE AS-BUILT DRAWINGS HAVE BEEN ACCEPTED.

(B) PROPOSED MONUMENTATION:

THE DEVELOPER'S/CONTRACTOR'S SUPERVISOR SHALL NOTIFY THE CITY ENGINEER IN WRITING UPON THE COMPLETION OF MONUMENTS BEING SET AS PER PLAN OR RECORD PLAT.

(C) RELEASE OF RETAINER/BONDS:

PRIOR TO THE RELEASE OF RETAINER/CONSTRUCTION BOND BY THE CITY OF CANTON, THE CONTRACTOR SHALL HAVE COMPLETED THE ENGINEER'S PROJECT PUNCHLIST AND SUBMIT FINAL WAIVER OF LIEN, IN ACCORDANCE WITH CITY SS 01-00.

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY FLOW LINE ELEVATIONS OF EXISTING SANITARY SEWERS AND SANITARY LATERALS PRIOR TO WORK. ANY ADJUSTMENT OF GRADES SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
2. ALL DISTURBED EARTH SHALL BE SEEDED AND MULCHED AS SOON AS POSSIBLE TO PRECLUDE EROSION. JUTE MATTING SHALL BE PLACED IN AREAS WHERE GRASS COVER CANNOT BE ESTABLISHED DUE TO STEEP SLOPES.
3. ROOF DRAINS, FLOOR DRAINS, AND ALL CLEAN WATER CONNECTIONS SHALL BE PROHIBITED FROM CONNECTING TO THE SANITARY SYSTEMS.
4. NO GROUND OR SURFACE WATER ENCOUNTERED DURING SEWER LINE EXCAVATION WILL BE ALLOWED TO ENTER THE SANITARY SEWER COLLECTION SYSTEM.
5. A MINIMUM 10'-FOOT HORIZONTAL SEPARATION (MEASURED OUT-TO-OUT CLEAR) BETWEEN THE SANITARY SEWER AND EXISTING WATER LINES SHALL BE MAINTAINED.
6. A MINIMUM 18" VERTICAL CLEARANCE (MEASURED OUT-TO-OUT CLEAR) BETWEEN THE SANITARY SEWER AND EXISTING WATER LINES SHALL BE MAINTAINED.
7. ACCESS TO ALL DRIVEWAYS AND PARKING AREAS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED AT ALL TIMES. ALL OPEN TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING SANITARY PIPE SIZES PRIOR TO CONNECTING TO EXISTING TO ENSURE PROPER MATERIAL AND SIZE ARE UTILIZED.

EXCAVATED MATERIAL

ALL EXCAVATED MATERIAL AND ALL MATERIAL USED IN CONSTRUCTION OF THE WORK SHALL BE PILED IN A MANNER THAT WILL NOT ENDANGER THE WORK AND THAT WILL LEAVE DRIVEWAYS OR OTHER CONTROLS UNOBSERVED AND ACCESSIBLE WHILE THE WORK IS BEING COMPLETED. SANITARY PROVISIONS SHALL BE MADE FOR STREET DRAINAGE, AND NATURAL WATERCOURSES SHALL NOT BE OBSTRUCTED. DURING THE PROGRESS OF THE WORK, ALL MATERIAL PILES SHALL BE KEPT TRIMMED UP AND MAINTAINED IN A NEAT MANNER. ALL EXCAVATED WASTE SOIL AND MATERIAL SHALL BE REMOVED FROM THE PROJECT SITE, AS DIRECTED BY THE OWNER.

ABBREVIATIONS

A	ABANDONED	FT	FEET OR FOOT	P	PLUS	PLACES PROPOSED PAYMENT
ALT	ALTERNATIVE	G	GENERAL	PWP	PROPOSED	
ALUM	ALUMINUM	GEN	GENERAL	PROP	PROPOSED	
APPROX	APPROXIMATE	GRD	GRADE OR GRADING	RE	REMOVED	REINFORCED CONCRETE PIPE
ASPH	ASPHALT	H	HIGH DENSITY POLYETHYLENE	REMO	REMOVED	REMOVED
B	BASELINE	HDP	HORIZONTAL	REMO	REMOVED	REMOVED
BLDG	BUILDING	HT	HEIGHT	R/W	RIGHT OF WAY	
BLK	BLOCK	I	INSIDE DIAMETER	S	SANITARY	SOUTH
BM	BENCHMARK	IN	INCHES	SCH	SCHEDULE	
BOS	BOTTOM OF SLAB	INFL	INFLUENT	SHT	SHEET	
BOT	BOTTOM	INVT	INVERT	S STD	STANDARD	
BNG	BEARING	IP	IRON PIN	S STL	STANDARD STEEL	
C	CABLE TV	IP	IRON PIN	STL	STEEL	
CB	CATCH BASIN	IP	IRON PIN	STM	STORM SEWER	
C/L	CENTERLINE	L	LATERAL LENGTH	T	TOP OF BANK	
C/C	CENTERLINE TO CENTERLINE	LG	LATERAL LENGTH	TOS	TOP OF CONCRETE	
CONC	CONCRETE	LG	LATERAL LENGTH	TOS	TOP OF CONCRETE	
CONG	CONCRETE	M	MAXIMUM	TOP	TOP OF CONCRETE	
CONT	CONDUIT	MB	MANUFACTURER	TYP	TYPICAL	
CP	COURT	MFR	MANUFACTURER	U	UNDERGROUND ELECTRIC	
CP	COURT	MH	MANHOLE	UT	UNDERGROUND TELEPHONE	
CP	COURT	MISC	MISCELLANEOUS	V	VARIES	
CP	COURT	MJ	MECHANICAL JOINT	VCP	VARIABLE CLAY PIPE	
D	DEMOLITION	N	NORTH	VERT	VERTICAL	
DIA	DIAMETER	N	NORTH	W	WATER OR WIDE	
DIP	DUCTILE IRON PIPE	No.	NUMBER NOT TO SCALE	W/W	WATER OR WIDE WITH	
DTL	DETAIL	N/S	NORTH	W/W	WATER OR WIDE WITHOUT	
DWG	DRAWING	N/S	NORTH			
E	EDGE OF PAVEMENT					
EFTL	EAST EFFLUENT					
ELEC	ELECTRICAL					
EL	ELEVATION					
EOP	EDGE OF PAVEMENT					
EXIST	EXISTING					

TEXT LEGEND

SLANTED AND LIGHTER TEXT - EXISTING FEATURES
UPRIGHT AND BOLDER TEXT - PROPOSED WORK

SITE PLAN SYMBOLS

EXISTING FENCE	EXISTING GUARDRAIL, PROPOSED GUARDRAIL	ADJUST TO GRADE CATCH BASIN, MANHOLE
PROPOSED FENCE	PROPERTY LINE	GAS, WATER VALVE BOX
SILT FENCE	CENTERLINE LINE	FIRE HYDRANT, YARD HYDRANT
EXISTING GUARDRAIL, PROPOSED GUARDRAIL	BASELINE	CLEANOUT, FLOOR DRAIN
PROPERTY LINE	RIGHT OF WAY LINE	IRON PIN SET, IRON PIN FOUND
CENTERLINE LINE	PROPOSED CONTOUR	TREE, SHRUB
BASELINE	EXISTING CONTOUR	BRUSH, EVERGREEN
RIGHT OF WAY LINE	NEW GRADE SPOT ELEVATION	POWER POLE, LIGHT POLE
PROPOSED CONTOUR	EXISTING GRADE SPOT ELEVATION	TELEPHONE POLE, GUYED WIRE
EXISTING CONTOUR	EDGE OF WATER	POWER AND LIGHT POLE
NEW GRADE SPOT ELEVATION	DRAINAGE FLOW	POWER AND TELEPHONE POLE
EXISTING GRADE SPOT ELEVATION	EXISTING CATCH BASIN, MANHOLE	TELEPHONE, POWER, CABLE AND LIGHT POLE
EDGE OF WATER	PROPOSED CATCH BASIN, MANHOLE	
DRAINAGE FLOW		
EXISTING CATCH BASIN, MANHOLE		
PROPOSED CATCH BASIN, MANHOLE		

DEMOLITION LEGEND

ITEMS TO BE REMOVED OR DEMOLISHED

CITY OF CANTON, OHIO
TRINITY PLACE & CAPRICE AVE NW
SANITARY MANHOLE REHABILITATION
G.P. #1174

GENERAL NOTES,
ABBREVIATIONS, AND SYMBOLS



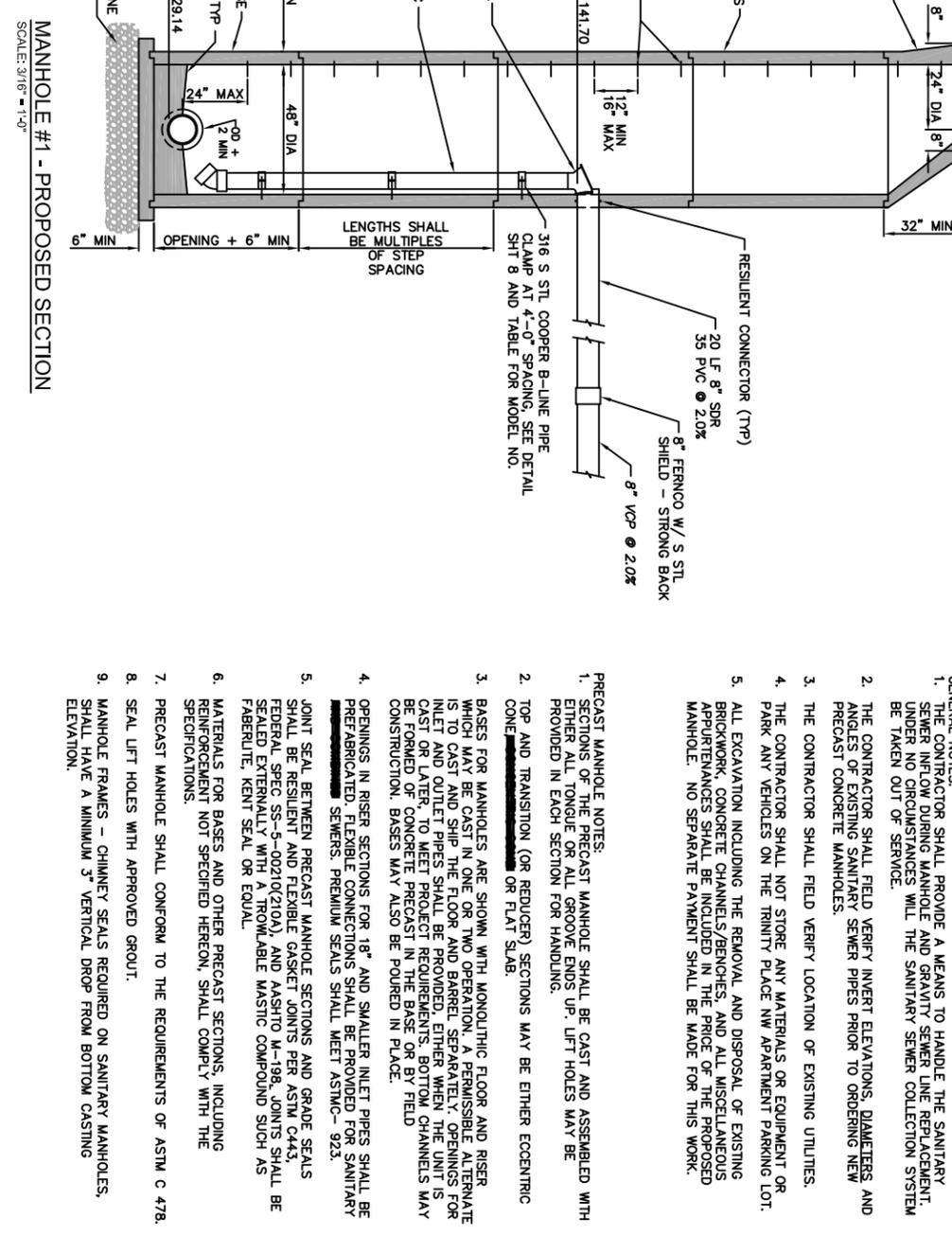
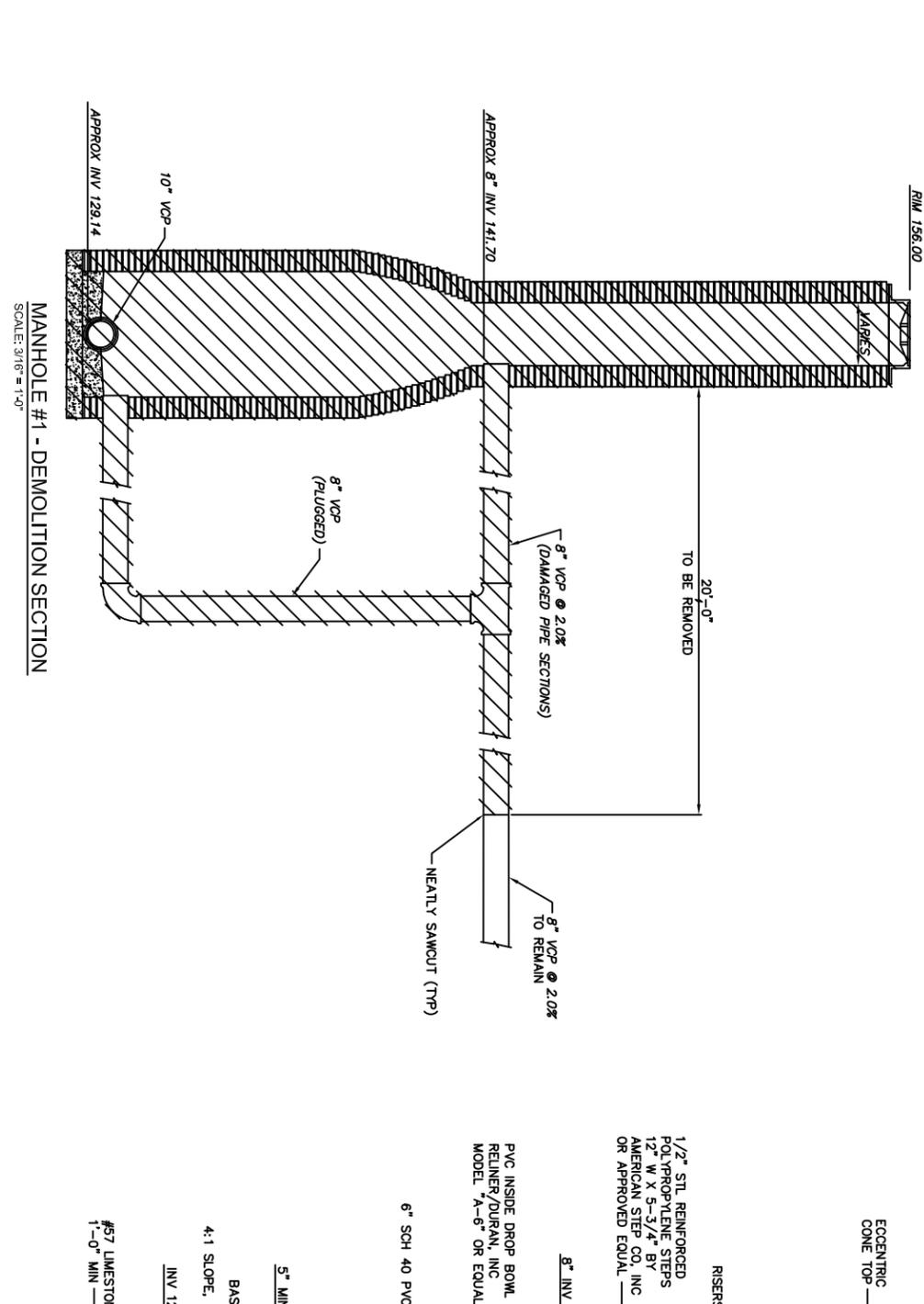
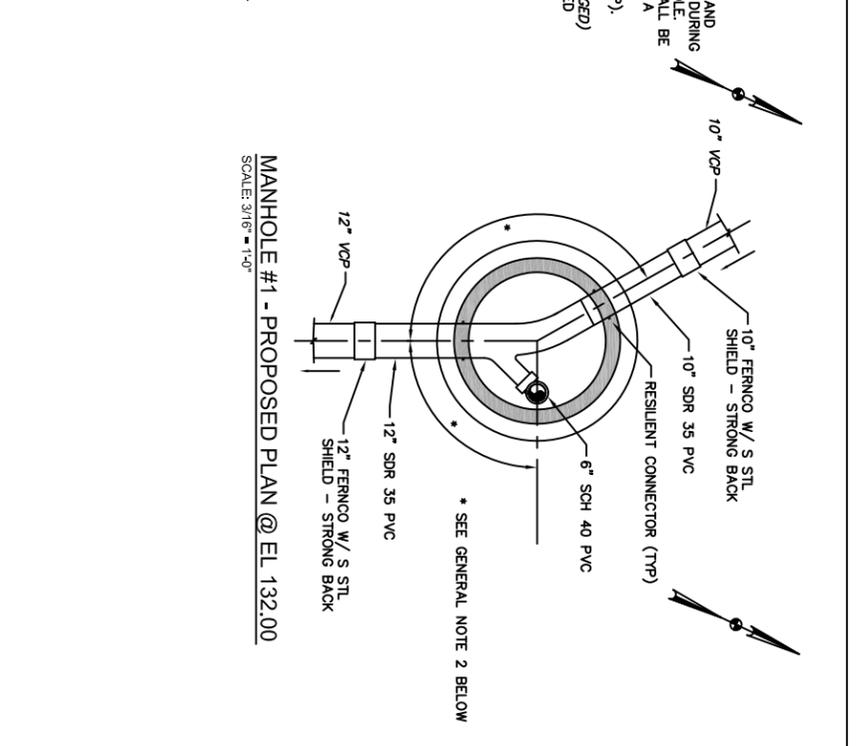
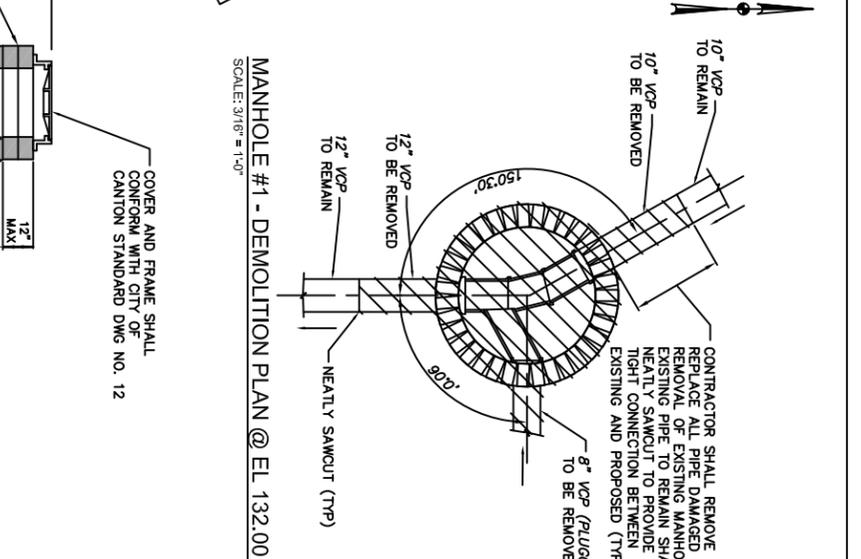
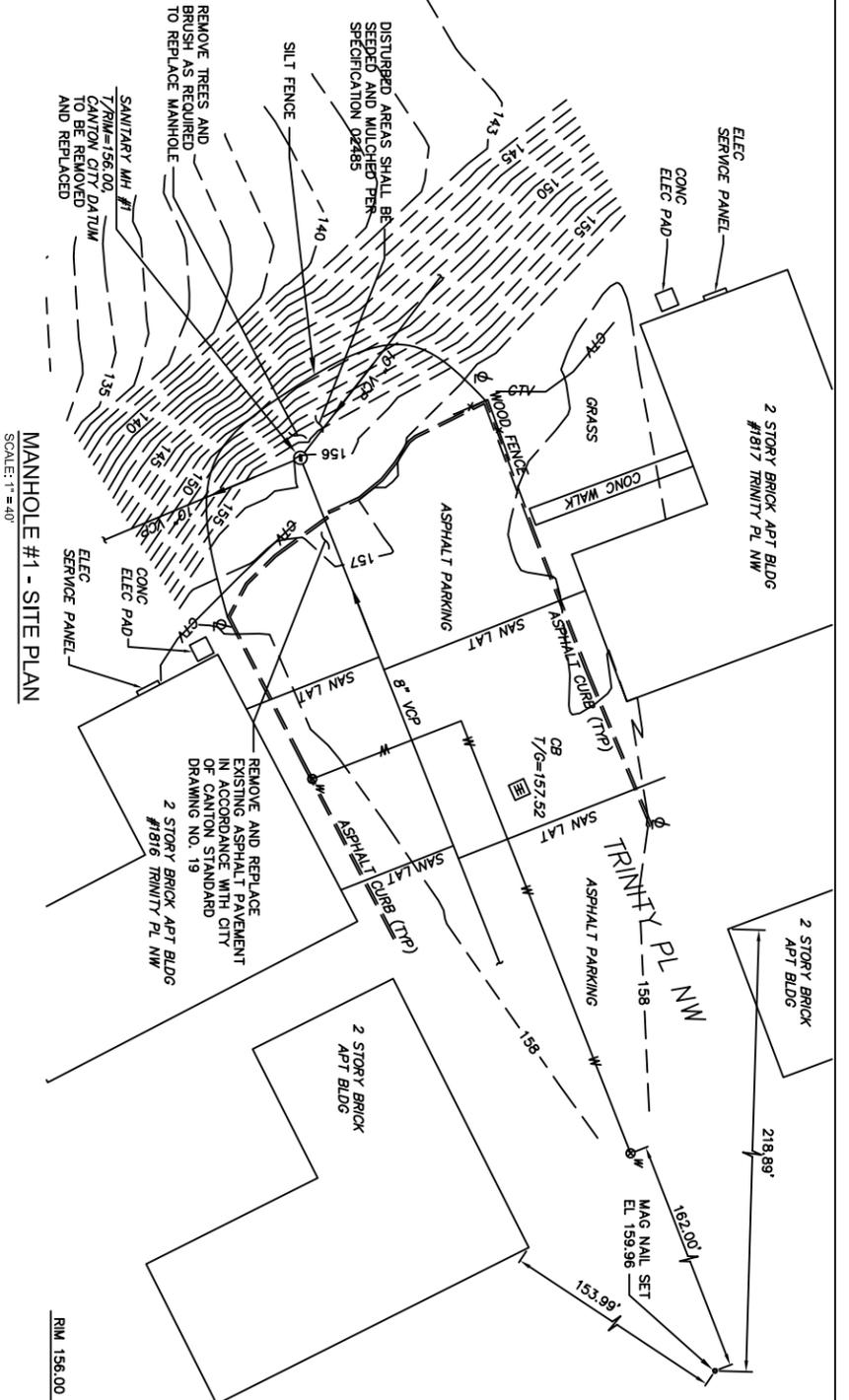
220 MARKET AVENUE SOUTH
SUITE 750
CANTON, OH 44702
330-455-7733

DESIGNED BY	TMK
DRAWN BY	JAM
CHECKED BY	TMK
APPROVED BY	RWR

REVISIONS				
NO.	DESCRIPTIONS	DATE	BY	APP'D

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DATE	8/23/2012
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SHEET NO.	4 OF 8



GENERAL NOTES:

- THE CONTRACTOR SHALL PROVIDE A MEANS TO HANDLE THE SANITARY SEWER INFLOW DURING MANHOLE AND GRAVITY SEWER LINE REPAIRMENT. UNDER NO CIRCUMSTANCES WILL THE SANITARY SEWER COLLECTION SYSTEM BE TAKEN OUT OF SERVICE.
- THE CONTRACTOR SHALL FIELD VERIFY INVERT ELEVATIONS, DIAMETERS AND ANGLES OF EXISTING SANITARY SEWER PIPES PRIOR TO ORDERING NEW PRECAST CONCRETE MANHOLES.
- THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES.
- THE CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT OR PARK ANY VEHICLES ON THE TRINITY PLACE NW APARTMENT PARKING LOT.
- ALL EXCAVATION INCLUDING THE REMOVAL AND DISPOSAL OF EXISTING BRICKWORK, CONCRETE CHANNELS/BENCHES, AND ALL MISCELLANEOUS APPURTENANCES SHALL BE INCLUDED IN THE PRICE OF THE PROPOSED MANHOLE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.

PRECAST MANHOLE NOTES:

- SECTIONS OF THE PRECAST MANHOLE SHALL BE CAST AND ASSEMBLED WITH EITHER ALL TONGUE OR ALL GROOVE ENDS UP- LIFT HOLES MAY BE PROVIDED IN EACH SECTION FOR HANDLING.
- TOP AND TRANSITION (OR REDUCER) SECTIONS MAY BE EITHER ECCENTRIC CONE OR FLAT SLAB.
- BASES FOR MANHOLES ARE SHOWN WITH MONOLITHIC FLOOR AND RISER WHICH MAY BE CAST IN PLACE OR PRECAST. PERMISSIBLE ALTERNATE INLET AND OUTLET PIPES SHALL BE PROVIDED. EITHER WHEN THE LIFT IS CAST OR LATER TO MEET PROJECT REQUIREMENTS. BOTTOM CHANNELS MAY BE FORMED OF CONCRETE PRECAST IN THE BASE OR BY FIELD CONSTRUCTION. BASES MAY ALSO BE POURED IN PLACE.
- OPENINGS IN RISER SECTIONS FOR 18" AND SMALLER INLET PIPES SHALL BE PREFABRICATED. FLEXIBLE CONNECTIONS SHALL BE PROVIDED FOR SANITARY SEWERS. PREMIUM SEALS SHALL MEET ASTM C- 923.
- JOINT SEAL BETWEEN PRECAST MANHOLE SECTIONS AND GRADE SEALS SHALL BE RESILIENT AND FLEXIBLE GASKET JOINTS PER ASTM C443. FEDERAL SPEC SS-5-00210(210A), AND AASHTO M-198. JOINTS SHALL BE SEALED EXTERNALLY WITH A TROWABLE MASTIC COMPOUND SUCH AS FABERLITE, KENT SEAL OR EQUAL.
- MATERIALS FOR BASES AND OTHER PRECAST SECTIONS, INCLUDING REINFORCEMENT NOT SPECIFIED HEREON, SHALL COMPLY WITH THE SPECIFICATIONS.
- PRECAST MANHOLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 478.
- SEAL LIFT HOLES WITH APPROVED GROUT.
- MANHOLE FRAMES - CHIMNEY SEALS REQUIRED ON SANITARY MANHOLES, SHALL HAVE A MINIMUM 3" VERTICAL DROP FROM BOTTOM CASTING ELEVATION.

MANHOLE #1 (132R004) PLANS AND SECTIONS

CITY OF CANTON, OHIO
 TRINITY PLACE & CAPRICE AVE NW
 SANITARY MANHOLE REHABILITATION
 G.P. #1174

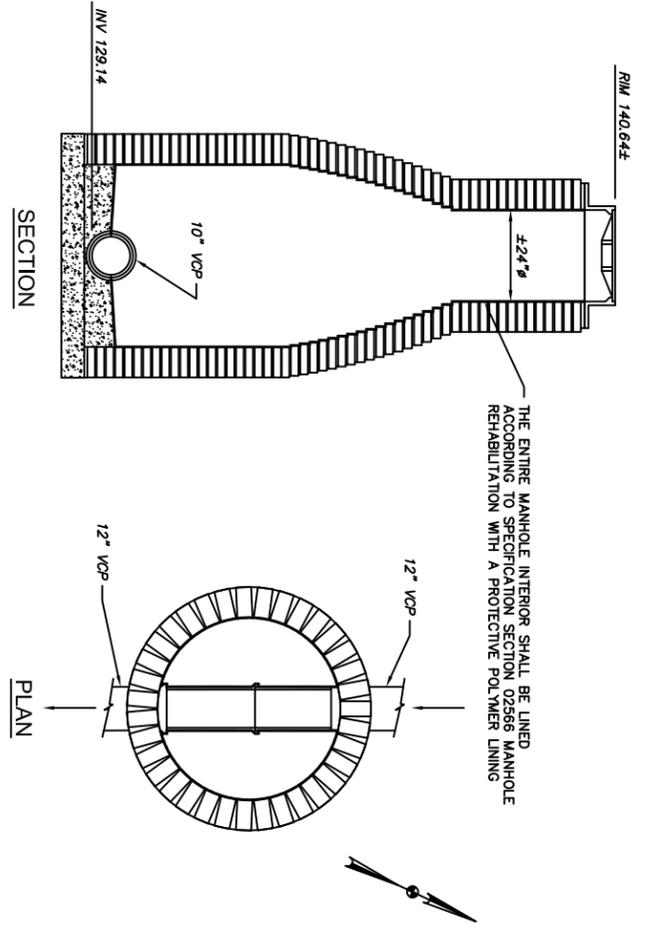
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DRAWN BY: JAM
CHECKED BY: TMK
APPROVED BY: RWR

REVISIONS				
NO.	DESCRIPTIONS	DATE	BY	APP'D
1	VARIOUS CITY REVISIONS	8/12/13	DJH	DJH

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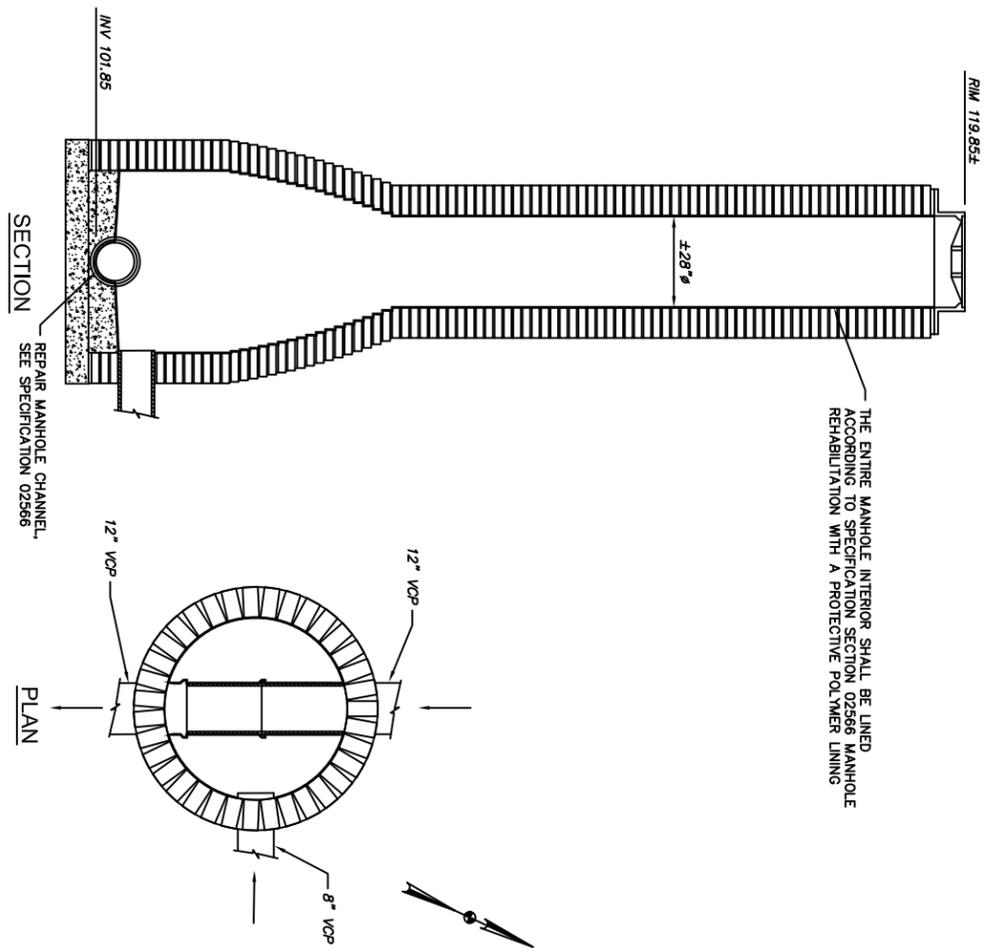
CTI ENGINEERS, INC.
 220 MARKET AVENUE SOUTH
 922 E. 12th Street
 CANTON, OH 44702
 330-455-7733

JOB NO.: E11025
DATE: 8/23/2012
SCALE: AS SHOWN
SHEET NO.: 5 OF 8



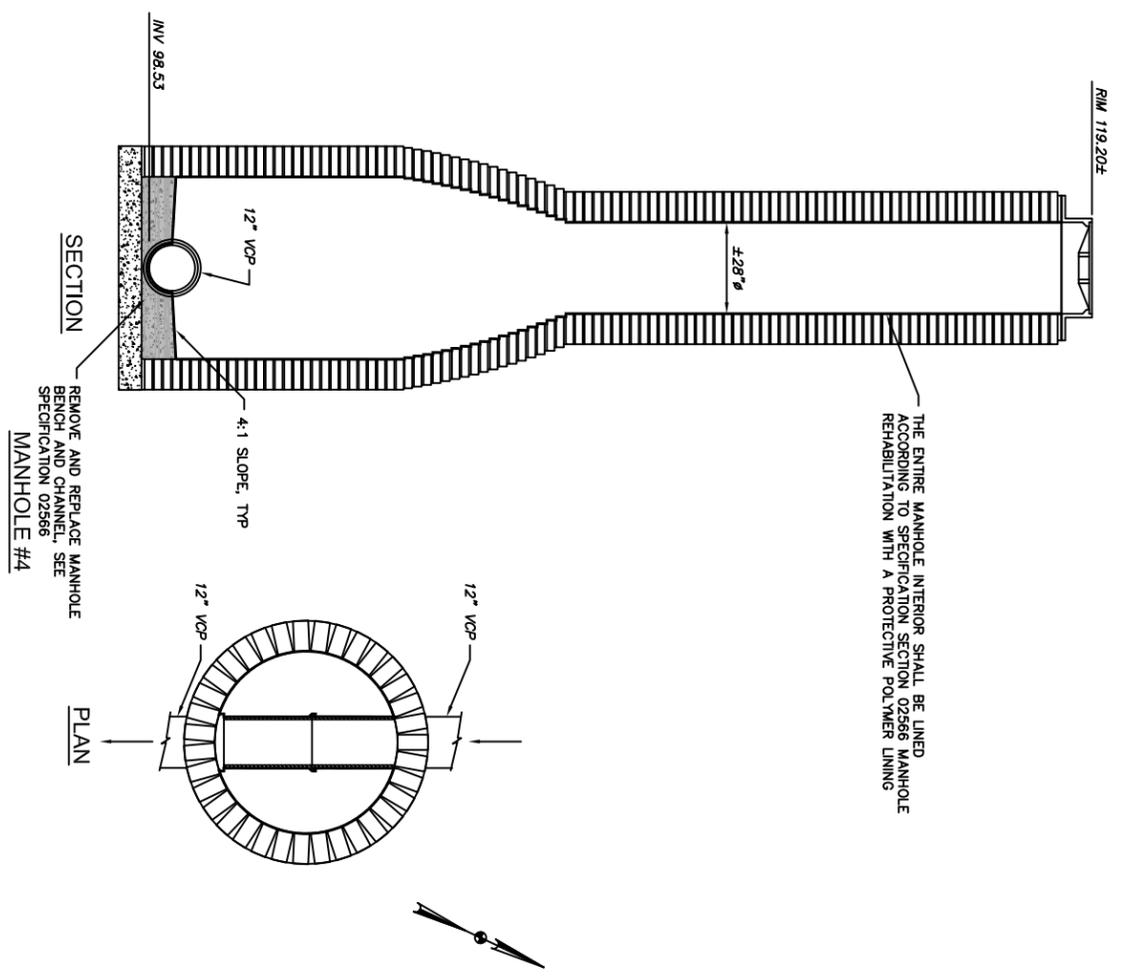
MANHOLE #2

THE ENTIRE MANHOLE INTERIOR SHALL BE LINED ACCORDING TO SPECIFICATION SECTION 02566 MANHOLE REHABILITATION WITH A PROTECTIVE POLYMER LINING



MANHOLE #3

REPAIR MANHOLE CHANNEL, SEE SPECIFICATION 02566

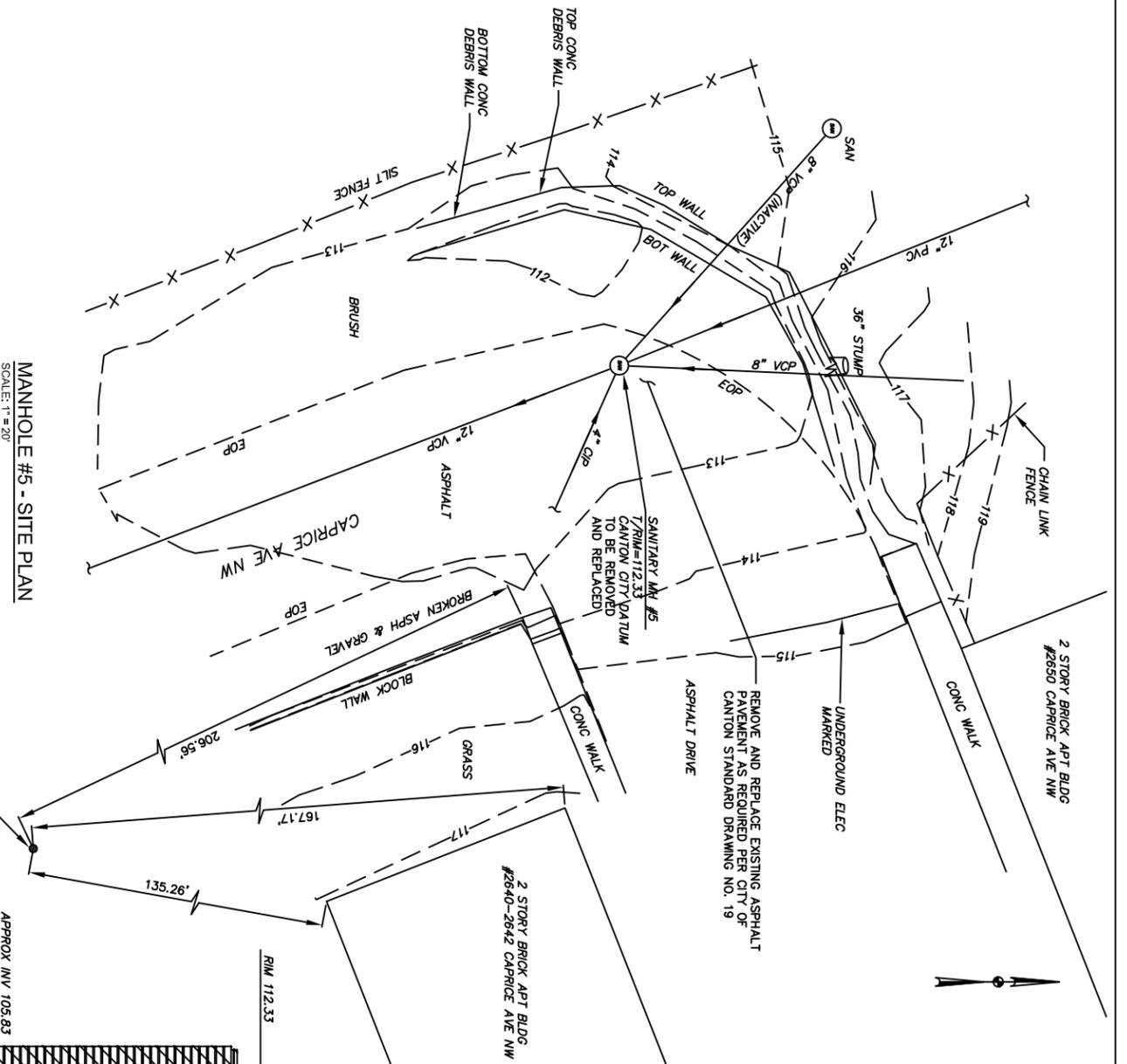


MANHOLE #4

REMOVE AND REPLACE MANHOLE BENCH AND CHANNEL, SEE SPECIFICATION 02566

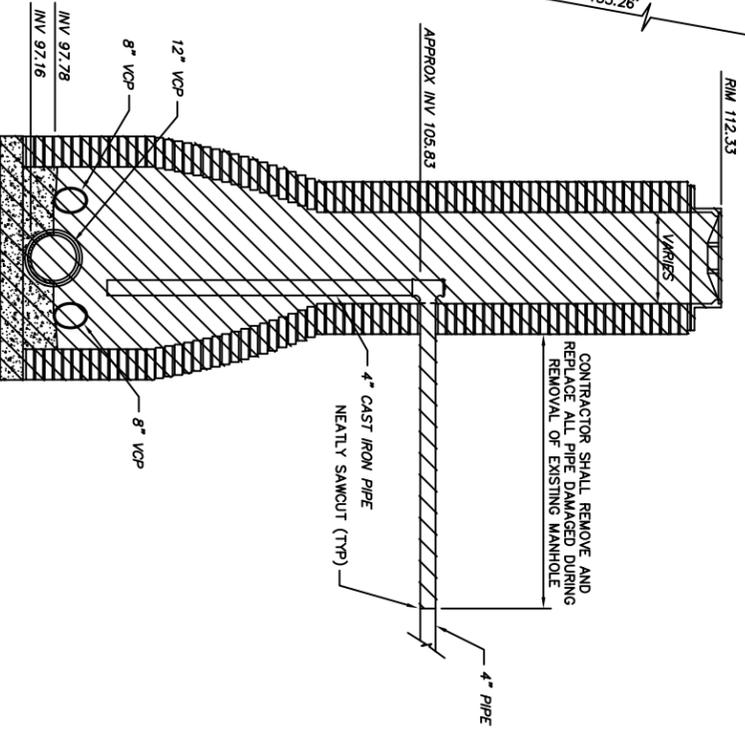
THE ENTIRE MANHOLE INTERIOR SHALL BE LINED ACCORDING TO SPECIFICATION SECTION 02566 MANHOLE REHABILITATION WITH A PROTECTIVE POLYMER LINING

 <p>220 MARKET AVENUE SOUTH SUITE 750 CANTON, OH 44702 330-455-7733</p>	CITY OF CANTON, OHIO TRINITY PLACE & CAPRICE AVE NW SANITARY MANHOLE REHABILITATION G.P. #1174		DESIGNED BY TMK				REVISIONS				THIS DRAWING IS AN INSTRUMENT OF SERVICE OWNED BY CTI ENGINEERS, INC. WHICH SHALL BE DEEMED THE AUTHOR AND WHICH SHALL RETAIN ALL STATUTORY AND COMMON LAW RIGHTS, INCLUDING COPYRIGHTS. THIS DRAWING SHALL NOT BE SCANNED, COPIED, OR DISTRIBUTED TO OTHERS IN ANY FORM OR USED FOR ANY OTHER PURPOSE OR PROJECT WITHOUT PRIOR WRITTEN CONSENT OF CTI ENGINEERS, INC. CTI ENGINEERS, INC. CANNOT GUARANTEE THAT ELECTRONIC COPIES OF THIS DRAWING ARE EXACT DUPLICATES OF THE SEALED ORIGINAL DRAWING. IN THE EVENT OF A CONFLICT BETWEEN AN ELECTRONIC COPY AND THE SEALED ORIGINAL, THE SEALED ORIGINAL SHALL GOVERN.
	MANHOLES #2(132R003), #3(132R002) & #4(132R001) PLAN & SECTION		DRAWN BY JAM		NO.	DESCRIPTIONS	DATE	BY	APP'D		
		CHECKED BY TMK		1	VARIOUS CITY REVISIONS	8/12/13	DJH	DJH			
		APPROVED BY RWR									
JOB NO. E11025	DATE 8/23/2012	SCALE 1/4" = 1'-0"	SHEET NO. 6 OF 8								

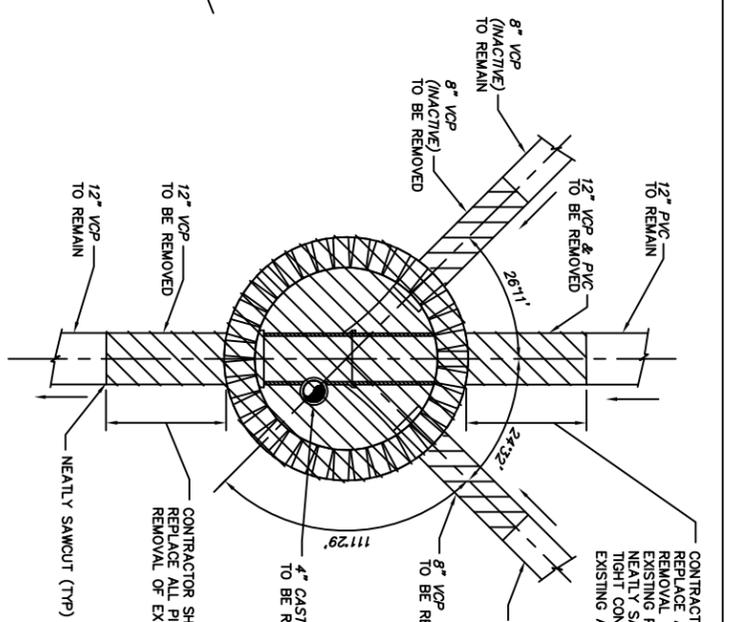


MANHOLE #5 - SITE PLAN
SCALE: 1" = 20'

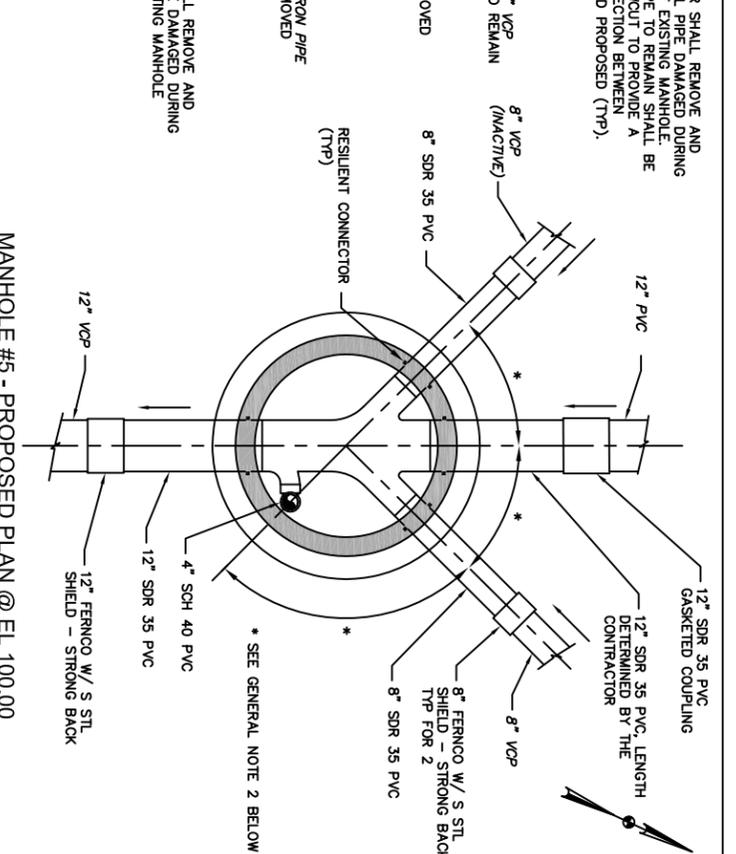
- GENERAL NOTES:
1. THE CONTRACTOR SHALL PROVIDE A MEANS TO HANDLE THE SANITARY SEWER INFLOW DURING MANHOLE AND GRAVITY SEWER LINE REPLACEMENT. UNDER NO CIRCUMSTANCES WILL THE SANITARY SEWER COLLECTION SYSTEM BE TAKEN OUT OF SERVICE.
 2. THE CONTRACTOR SHALL VERIFY INVERT ELEVATIONS, DIAMETERS AND ANGLES OF EXISTING SANITARY SEWER PIPES PRIOR TO ORDERING NEW PRECAST CONCRETE MANHOLE.
 3. THE CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES.
 4. CONTRACTOR SHALL FIELD COORDINATE WITH APARTMENT OWNER AND SUBMIT A MAINTENANCE OF TRAFFIC PLAN TO THE CITY OF CANTON FOR APPROVAL.
 5. ALL EXCAVATION INCLUDING THE REMOVAL AND DISPOSAL OF EXISTING BRICKWORK, CONCRETE CHANNELS/BENCHES, AND ALL MISCELLANEOUS APPURTENANCES SHALL BE INCLUDED IN THE PRICE OF THE PROPOSED MANHOLE. NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK.



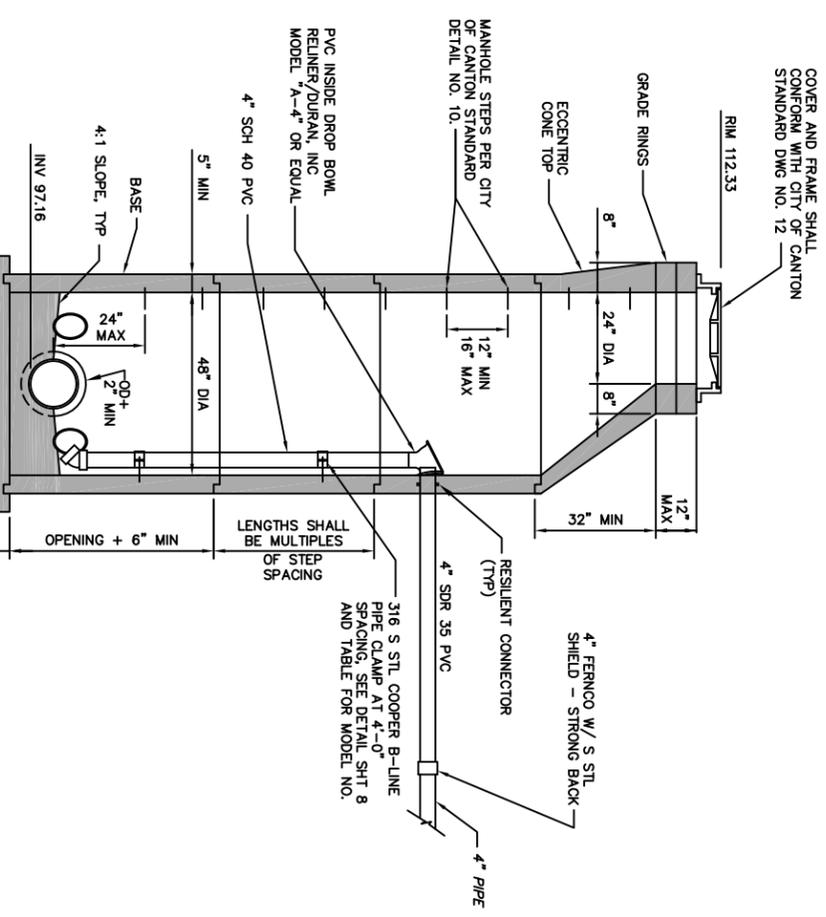
MANHOLE #5 - DEMOLITION SECTION
SCALE: 1/4" = 1'-0"



MANHOLE #5 - DEMOLITION PLAN @ EL. 100.00
SCALE: 1/4" = 1'-0"



MANHOLE #5 - PROPOSED PLAN @ EL. 100.00
SCALE: 1/4" = 1'-0"



MANHOLE #5 - PROPOSED SECTION
SCALE: 1/4" = 1'-0"

CITY OF CANTON, OHIO
TRINITY PLACE & CAPRICE AVE NW
SANITARY MANHOLE REHABILITATION
G.P. #1174

MANHOLE #5 (133R010)
PLANS AND SECTIONS

DESIGNED BY	REVISIONS				
	NO.	DESCRIPTIONS	DATE	BY	APP'D
TMK	1	VARIOUS CITY REVISIONS	8/12/13	DJH	DJH
DRAWN BY					
JAM					
CHECKED BY					
TMK					
APPROVED BY					
RWR					

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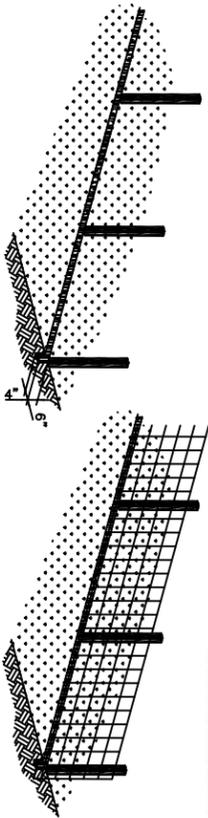


220 MARKET AVENUE SOUTH
SUITE 750
CANTON, OH 44702
330-455-7733

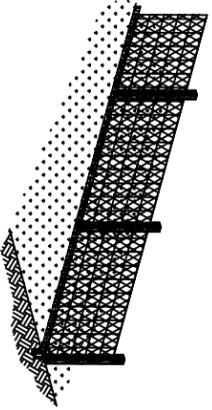
JOB NO.	E11025
DATE	8/23/2012
SCALE	AS SHOWN
SHEET NO.	7 OF 8

MANHOLE CHANNEL REPAIR	MANHOLE #1	MANHOLE #2	MANHOLE #3	MANHOLE #4	MANHOLE #5	MANHOLE #6
MANHOLE BENCH / CHANNEL REMOVAL & REPLACEMENT				X		
MANHOLE DROP REMOVAL & REPLACEMENT	X					X
MANHOLE REMOVED AND REPLACED	X					
MANHOLE INTERIOR LINER		X	X	X		
MANHOLE STEPS REMOVAL		X	X	X		
MANHOLE OVERALL DEPTH	27'-0" ±	11'-0" ±	18'-0" ±	20'-8" ±	14'-8" ±	*
MANHOLE CHIMNEY DEPTH	14'-0" ±	3'-6" ±	12'-6" ±	11'-6" ±	9'-0" ±	*
MANHOLE APPROXIMATE CHIMNEY DIAMETER	VARIES 18" - 26"	24"	28"	28"	VARIES 18" - 24"	*

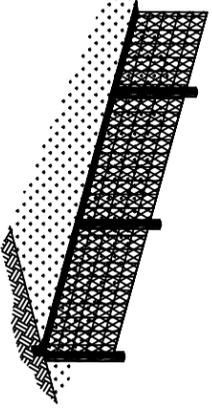
* - TO BE DETERMINED BY THE CONTRACTOR



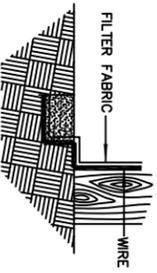
1. SET POSTS AND EXCAVATE A 4" DEEP X 6" WIDE TRENCH UPSLOPE ALONG THE LINE OF POSTS.



2. STAPLE WIRE FENCING TO THE POSTS.

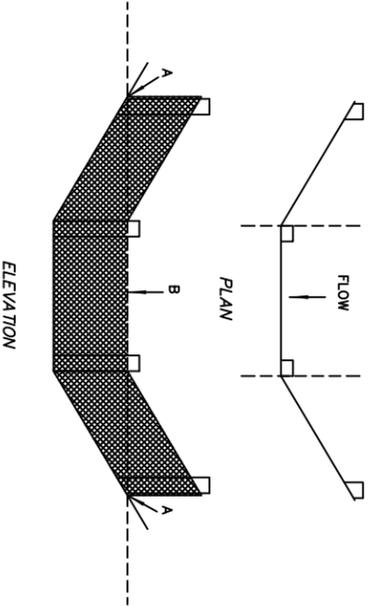


3. ATTACH THE FILTER FABRIC TO THE WIRE FENCING AND EXTEND IT INTO THE TRENCH.

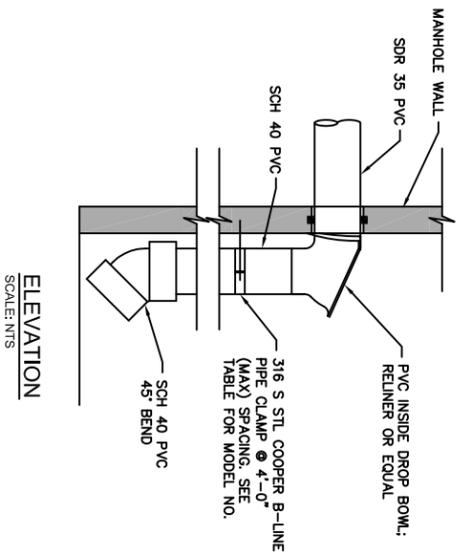


4. BACKFILL AND COMPACT THE EXCAVATED SOIL.

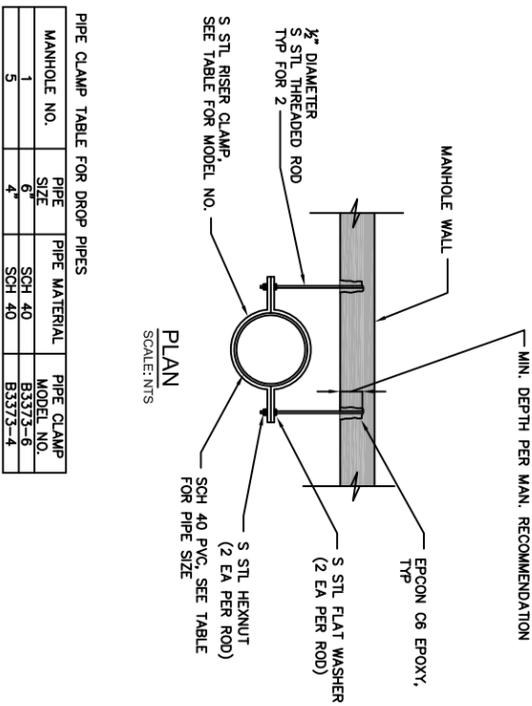
EXTENSION OF FABRIC AND WIRE INTO THE TRENCH.



SILT FENCE DETAILS
NOT TO SCALE



ELEVATION
SCALE: NTS



PLAN
SCALE: NTS

PIPE CLAMP TABLE FOR DROP PIPES

MANHOLE NO.	PIPE SIZE	PIPE MATERIAL	PIPE CLAMP MODEL NO.
1	6"	SCH 40	B3373-6
5	4"	SCH 40	B3373-4

SANITARY INSIDE DROP DETAIL

CITY OF CANTON, OHIO
TRINITY PLACE & CAPRICE AVE NW
SANITARY MANHOLE REHABILITATION
G.P. #1174

MANHOLE REHABILITATION CHART
AND MISCELLANEOUS DETAILS

DESIGNED BY	REVISIONS			
	NO.	DESCRIPTIONS	DATE	BY
TMK	1	VARIOUS CITY REVISIONS	8/12/13	DJH
DRAWN BY				
JAM				
CHECKED BY				
TMK				
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RWR				

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