

THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATIONS, (C.C.M.S.) 2002 EDITION, INCLUDING ALL SUPPLEMENTS THEREIN, SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE PART OF THIS PLAN UNLESS OTHERWISE NOTED.

ANY MODIFICATIONS TO THE SPECIFICATIONS OR CHANGES TO THE WORK AS SHOWN ON THE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR OF THE BUREAU OF SEWERAGE AND DRAINAGE.

UTILITY UTILITIES THE INFORMATION SHOWN CONCERNING EXISTING UTILITIES IS AS ACCURATE AS THE INFORMATION PROVIDED BY THE OWNERS OF THE UTILITY. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND ELEVATION OF ALL UTILITIES LOCATED AND VERIFY IN THE FIELD, ALL UTILITY LOCATIONS AND ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PHYSICALLY LOCATE AND VERIFY, IN THE FIELD, ALL UTILITY LOCATIONS AND ELEVATIONS. THE CONTRACTOR SHALL SUPPORT, PROTECT, AND RESTORE ALL EXISTING UTILITIES AND THEIR ASSOCIATED ITEMS AND THE CITY OF COLUMBUS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR THE DEPTH OF THE UNDERGROUND UTILITIES.

THE CONTRACTOR SHALL NOTIFY THE REGISTERED UTILITY PROTECTORS SERVICE AND ALL UTILITY OWNERS HAVING FACILITIES IN THE CONSTRUCTION AREA, IN ACCORDANCE WITH SECTION 163.64, OHIO REVENUE CODE, AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CITY OF COLUMBUS OF ANY CHANGES TO THE WORK SCHEDULE UNTIL ALL WORK IS COMPLETED TO BEGINNING ANY WORK.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH EVIDENCE OF HAVING NOTIFIED THE UTILITIES AND PROVIDING THEM WITH HIS WORK SCHEDULE PRIOR TO BEGINNING ANY WORK.

NOTE: THE FOLLOWING DIVISIONS AT LEAST 24 HOURS IN ADVANCE OF THE ANTICIPATED START OF CONSTRUCTION:

- DIVISION OF SEWERAGE & DRAINAGE 415-9155
- TRANSPORTATION DIVISION 645-3102
- DIVISION OF ELECTRICITY (48 HOUR NOTICE) 645-7927

THE SEWERS SHOWN ON THIS DRAWING ARE TO BE CONSTRUCTED AS A PRIVATE STORM SEWER SYSTEM. THEREFORE, THE CITY WILL NOT ASSUME MAINTENANCE THEREOF AFTER COMPLETION. STANDBY INSPECTION BY THE DIVISION OF CONSTRUCTION IS MANDATORY. BUREAU CONSULTANTS, INC. IS REQUIRED TO ANY CONSTRUCTION OPERATION, DEPOSIT WITH THE CITY, THE TOTAL ESTIMATED COST FOR INSPECTION AND, WHERE APPROPRIATE, A REPAIRING GUARANTEE.

ALL CONCRETE PIPE AND STORM SEWER STRUCTURES SHALL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE OR STRUCTURE HAS BEEN INSPECTED BY THE CITY OF COLUMBUS AND MEETS CITY SPECIFICATIONS. PIPE AND STRUCTURES WITHOUT PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

THE FLOODING OR DETENTION AREAS SHOWN IN THESE PLANS ARE PART OF THE STORM SEWER PLAN. THE DEVELOPER/OWNER WILL ASSUME THE RESPONSIBILITY TO MAINTAIN THE FLOODING OR DETENTION AREAS IN A WAY AS NOT TO REDUCE THE LOAD ON THE STORM SEWER. THE CITY WILL NOT MAINTAIN THE FLOODING OR DETENTION AREAS. THIS PLAN WILL BECOME VOID AND THE CITY WILL PLUG THE SEWER AT THE OUTLET.

ALL PROPOSED STORM SEWER TRENCHES WITHIN THE RIGHT-OF-WAY AND UNDER THE PAVEMENT, OR WITHIN THREE (3) FEET OF THE PAVEMENT, SHALL USE ALL PAVED AGGREGATE BACKFILL AS PER ITEM 912. ALL OTHER STORM SEWER TRENCH BACKFILL WITHIN THE RIGHT-OF-WAY, THREE (3) FEET OR MORE FROM THE PAVEMENT, SHALL BE AS PER ITEM 911 (FOR CONCRETE PIPE ONLY).

ALL PLASTIC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION.

ANY WORK DONE BY THE TRANSPORTATION DIVISION, INCLUDING THE INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF PERMANENT TRAFFIC SIGNALS, SHALL BE DONE BY THE TRANSPORTATION DIVISION AS A RESULT OF WORK DONE BY THE CONTRACTOR OR AS A RESULT OF NECESSITY OF THE CONTRACTOR SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	PHASE 1		PHASE 2	
				ESTIMATE	QUANTITIES	ESTIMATE	QUANTITIES
207	244	SY	CONSTRUCTION ENTRANCE	122	122		
207	4,202	LF	SILT FENCE	1374	2828		
801	CT	108	ROCK CHANNEL PROTECTION, TYPE B	43	75		
604	EA	4	800T 2-3	1	3		
604	EA	11	800T 4-5	1	10		
604	EA	2	800T 6-7	2	4		
604	EA	21	800T 8-9	10	11		
659	SY	1147	6" RCP DRAINS	774	1353		
501	LF	45	8" PVC	328	1616		
801	LF	76	10" PVC	45	76		
801	LF	1134	12" STORM PIPE W/TYP T BEDDING	738	396		
801	LF	282	15" STORM PIPE W/TYP T BEDDING	282	282		
801	LF	229	18" STORM PIPE W/TYP T BEDDING	122	707		
801	LF	538	24" STORM PIPE W/TYP T BEDDING	48	539		
801	LF	41	30" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	36" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	42" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	48" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	54" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	60" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	66" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	72" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	78" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	84" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	90" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	96" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	102" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	108" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	114" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	120" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	126" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	132" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	138" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	144" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	150" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	156" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	162" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	168" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	174" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	180" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	186" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	192" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	198" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	204" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	210" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	216" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	222" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	228" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	234" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	240" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	246" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	252" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	258" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	264" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	270" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	276" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	282" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	288" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	294" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	300" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	306" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	312" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	318" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	324" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	330" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	336" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	342" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	348" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	354" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	360" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	366" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	372" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	378" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	384" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	390" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	396" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	402" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	408" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	414" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	420" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	426" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	432" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	438" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	444" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	450" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	456" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	462" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	468" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	474" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	480" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	486" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	492" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	498" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	504" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	510" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	516" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	522" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	528" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	534" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	540" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	546" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	552" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	558" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	564" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	570" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	576" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	582" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	588" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	594" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	600" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	606" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	612" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	618" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	624" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	630" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	636" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	642" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	648" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	654" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	660" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	666" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	672" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	678" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	684" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	690" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	696" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	702" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	708" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	714" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	720" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	726" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	732" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	738" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	744" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	750" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	756" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	762" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	768" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	774" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	780" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	786" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	792" STORM PIPE W/TYP T BEDDING	41	41		
801	LF	41	798" STORM PIPE W/TYP T BEDDING	4			



**GENERAL NOTES**  
 THE CITY OF COLUMBUS CONSTRUCTION AND MATERIALS SPECIFICATIONS DATED 2002, INCLUDING ALL SUPPLEMENTS THEREIN, SHALL GOVERN THIS WORK EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY INDICATED NOTES OR DETAILS.  
 CONSTRUCTION OF THIS PROJECT MAY NOT BEGUN UNTIL THE EASEMENTS INDICATED ARE RECORDED BY THE CITY.  
 ANY MODIFICATIONS TO THE WORK AS SHOWN ON THESE DRAWINGS MUST HAVE PRIOR WRITTEN APPROVAL BY THE ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE.  
 ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED ON THIS PROJECT.

**SPECIAL NOTES**  
 THE CONTRACTOR AND SUB-CRACKER SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL SAFETY REQUIREMENTS, TOGETHER WITH EXERCISING PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS (INCLUDING EMPLOYEES) AND PROPERTY. THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SUB-CRACKER TO INITIATE, MAINTAIN, AND SUPERVISE ALL SAFETY REQUIREMENTS, PRECAUTIONS, AND PROGRAMS IN CONNECTION WITH THE WORK.  
**EXISTING UTILITIES**  
 THE IDENTITY AND LOCATION OF THE EXISTING UNDERGROUND UTILITY FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN SHOWN ON THE PLANS AS ACCURATELY AS PROVIDED BY THE OWNER OF THE UNDERGROUND UTILITY. THE CITY OF COLUMBUS AND/OR ITS DESIGN AGENTS MAKE NO REPRESENTATION AS TO THE ACCURACY OF LOCATIONS OR DEPTHS OF THE UNDERGROUND FACILITIES SHOWN ON THESE PLANS.  
 INVESTIGATION, LOCATION, PROTECTION, AND REPAIR OF ALL EXISTING UTILITIES AND APURTANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE.  
 CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE OHIO UTILITIES PROTECTION SERVICE (PHONE - 600/562-2784 TOLL FREE) 72 HOURS BEFORE CONSTRUCTION AND 48 HOURS NOTICE TO OWNERS OF UTILITIES AND TO THE OWNERS OF UNDERGROUND UTILITY FACILITIES SHOWN ON THE PLANS WHO ARE NOT MEMBERS OF A REGISTERED UNDERGROUND PROTECTION SERVICE. IN ACCORDANCE WITH SECTION 15364 OF THE REVISED CODE.  
 THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND THE OWNERS DO NOT SUBSCRIBE TO A REGISTERED UNDERGROUND UTILITY PROTECTION SERVICE.

SEWER SERVICE	PHONE	KEY
SEWER DIVISION	(614) 645-7100	(614) 645-1310
WATER DIVISION	(614) 645-7388	(614) 645-0250
ELECTRIC DIVISION	(614) 645-7627	(614) 645-7150
TRANSPORTATION DIVISION	(614) 645-7363	(614) 645-5967
COMMUNICATIONS	(614) 645-7344 EXT 125	(614) 645-6588
TELECOMMUNICATIONS	(614) 645-1501	(614) 645-8627

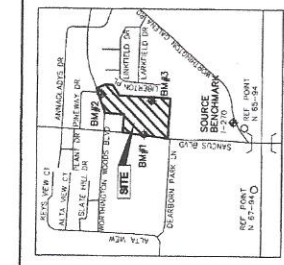
THE CONTRACTOR SHALL NOTIFY DIVISION OF TRANSPORTATION (PHONE - 614/645-3162) AND THE DIVISION OF SEWERAGE AND DRAINAGE (PHONE - 614/645-7102) AT LEAST 24 HOURS PRIOR TO CONSTRUCTION.  
 THE DEVELOPER/OWNER SHALL BE RESPONSIBLE TO ANY CONSTRUCTION OPERATION DEPOSIT WITH THE CITY THE TOTAL ESTIMATED COST OF INSPECTION, AND WHERE REQUIRED, A REPLACING GUARANTEE.

ALL PVC SEWER LINES SHALL BE DEFLECTION TESTED AFTER INSTALLATION, IN CONFORMANCE WITH THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIALS SPECIFICATIONS, CURRENT EDITION.  
 ALL CONCRETE, STORM, AND SANITARY SEWER STRUCTURES WILL BE STAMPED OR HAVE SUCH IDENTIFICATION NOTING THAT SAID PIPE, SLOPE, AND MANHOLE NUMBER, AND THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIALS SPECIFICATIONS PIPE AND STRUCTURES WITHOUT THE PROPER IDENTIFICATION WILL NOT BE PERMITTED FOR INSTALLATION.

EROSION AND SEDIMENT CONTROL MEASURES ARE REQUIRED AS PART OF THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES SPECIFIC TO THIS SITE MAY BE FOUND ON DRAWING NUMBER CC-1437B.  
 LAND-DISTURBING ACTIVITIES MUST COMPLY WITH ALL PROVISIONS OF THE DIVISION OF SEWERAGE AND DRAINAGE EROSION AND SEDIMENTATION CONTROL REGULATION. ALL LAND-DISTURBING ACTIVITIES SHALL BE SUBJECT TO INSPECTION AND SIGNATURE OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA. FAILURE TO COMPLY WITH THESE REGULATIONS IS SUBJECT TO LEGAL ENFORCEMENT ACTION.  
 THE CONTRACTOR SHALL ENSURE THERE IS A SURVEYOR'S (EAS) AND BORN ON THE PROJECT FOR USE IN PERFORMING GRADE CHECKS. WHENEVER SEWER LINE STRUCTURES OR PIPE ARE BEING INSTALLED, THE CONTRACTOR SHALL MAKE THIS EQUIPMENT AVAILABLE TO THE CITY INSPECTOR IN ORDER TO PERFORM GRADE CHECKS. THE CONTRACTOR SHALL MAKE ALL NECESSARY ATTEMPTS TO CONFIRM REQUESTS FOR ASSISTANCE IN PERFORMING GRADE CHECKS TO TIMES CONVENIENT TO THE CONTRACTOR.  
 THESE CHECKS WILL BE PERFORMED TO ENSURE THE FOLLOWING:  
 1. PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE  
 2. PROPER INSTALLATION OF INITIAL RUNS OF PIPE FROM A STRUCTURE  
 3. GRADE, AFTER AN OVERNIGHT OR LONGER SHUTDOWN  
 4. GRADE, AT ANY OTHER TIME THE INSPECTOR HAS REASON TO QUESTION GRADE OF INSTALLATION  
 ACCEPTANCE TESTING, (REFLECTION AND LEAKAGE) OF ALL SANITARY SEWERS SHALL REQUIRE A 30 DAY WAITING PERIOD FROM THE DATE OF FINAL BACKFILLING THIS SHALL INCLUDE ALL LATERALS INSTALLED AS PART OF MANHOLE CONSTRUCTION. TESTING SHALL CONFORM TO THE REQUIREMENTS OF ITEM 901 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIALS SPECIFICATIONS CURRENT EDITION.  
 GRADE CHECKS BY THE CITY INSPECTOR IN NO WAY RELIEVE THE CONTRACTOR FOR THE ULTIMATE RESPONSIBILITY TO ENSURE CONSTRUCTION TO THE PLAN GRADE.

ACCESS TO ALL ADJOINING PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.  
 ALL TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AND MAINTENANCE OPERATIONS (CURRENT EDITION), COPIES OF WHICH ARE AVAILABLE FROM THE OHIO DEPT. OF TRANSPORTATION, BUREAU OF TRAFFIC, 1980 WEST BROAD STREET, COLUMBUS, OHIO 43223.  
 ALL PERMANENT TRAFFIC CONTROLS NOT IN CONFLICT WITH THE TEMPORARY TRAFFIC CONTROLS SHALL BE MAINTAINED THROUGHOUT THIS PROJECT BY THE CONTRACTOR. PERMANENT TRAFFIC CONTROLS MAY BE TEMPORARILY RELOCATED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR MISSING, DAMAGED, AND IMPROPERLY PLACED SIGNS.  
 ANY WORK DONE BY THE TRANSPORTATION DIVISION, INCLUDING INSTALLATION, RELOCATION, REMOVAL AND/OR REPLACEMENT OF TEMPORARY TRAFFIC CONTROLS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.  
 CONTRACTOR SHALL BE AT THE EXPENSE OF THE CONTRACTOR.

CITY NO.	ESTIMATE NUMBER	PAGE	QUANTITY	DESCRIPTION	APPROVAL DATE	PLAN PREPARED BY	
						DATE	BY
						Civil & Earth	Final Consultants, Inc.
						3710 ADVANCE PLACE, SUITE 100	(614) 244-0683 (614) 244-4009
						APPROVED:	DATE: 3/15/04
						FOR THE CITY OF COLUMBUS:	DATE: 3/15/04
						FOR THE ENGINEER:	DATE: 3/15/04



**SOURCE BENCH MARK**  
 FRANKLIN COUNTY MONUMENT "118-45" LOCATED 50 YARDS NORTHEAST OF THE EAST CORNER OF 1-270 BRIDGE OVER WORTHINGTON-GALENA ROAD, AND BEING ABOUT 1' BELOW GROUND IN A 6" TILE WITH A METAL ID.

**SITE BENCH MARKS NAVD 1988**  
 THESE PLANS WERE PREPARED USING NAVD 1988

**B.M.P. #1**  
 THE TOP OF CASTING ON A CURB INLET LOCATED ON THE EASTERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 926.86' (88 DATUM) ELEV 927.41' (29 DATUM)

**B.M.P. #2**  
 BEING A CHIEF BOX ON A FIRE HYDRANT LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND SANCUS BOULEVARD. ELEV 932.37' (88 DATUM) ELEV 932.85' (29 DATUM)

**B.M.P. #3**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #4**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #5**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #6**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #7**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #8**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #9**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #10**  
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**B.M.P. #11**  
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**B.M.P. #13**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #14**  
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**B.M.P. #15**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #16**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #17**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

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 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

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**B.M.P. #24**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

**B.M.P. #25**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

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**B.M.P. #29**  
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**B.M.P. #30**  
 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

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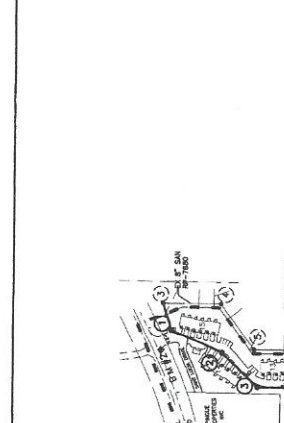
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 BEING A CHIEF BOX AT THE SOUTHEAST CORNER OF A HEADWALL LOCATED ON THE SOUTHERLY SIDE OF SANCUS BOULEVARD AND NORTHINGTON WOODS BOULEVARD INTERSECTION OF SAID BOULEVARD AND NORTHINGTON WOODS BOULEVARD. ELEV 920.06' (88 DATUM) ELEV 920.59' (29 DATUM)

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**B.M.P. #36**  
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**INDEX / TRIBUTARY AREA MAP**  
 SCALE 1" = 200'

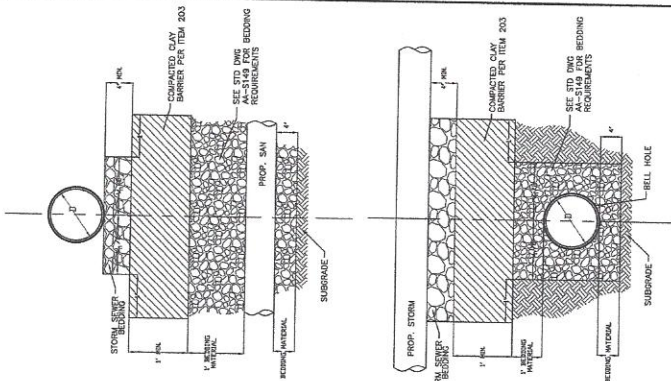
**NOTE TO PERMIT CLERK CONTRACTOR AND CONSTRUCTION INSPECTOR**  
 1. THE SERVICE FOR BUILDINGS 11-15, 16-20, 21-25, 26-30, 31-35, 36-40, 41-45, 46-50, 51-55, 56-60, 61-65, 66-70, 71-75, 76-80, 81-85, 86-90, 91-95, 96-100, 101-105, 106-110, 111-115, 116-120, 121-125, 126-130, 131-135, 136-140, 141-145, 146-150, 151-155, 156-160, 161-165, 166-170, 171-175, 176-180, 181-185, 186-190, 191-195, 196-200, 201-205, 206-210, 211-215, 216-220, 221-225, 226-230, 231-235, 236-240, 241-245, 246-250, 251-255, 256-260, 261-265, 266-270, 271-275, 276-280, 281-285, 286-290, 291-295, 296-300, 301-305, 306-310, 311-315, 316-320, 321-325, 326-330, 331-335, 336-340, 341-345, 346-350, 351-355, 356-360, 361-365, 366-370, 371-375, 376-380, 381-385, 386-390, 391-395, 396-400, 401-405, 406-410, 411-415, 416-420, 421-425, 426-430, 431-435, 436-440, 441-445, 446-450, 451-455, 456-460, 461-465, 466-470, 471-475, 476-480, 481-485, 486-490, 491-495, 496-500, 501-505, 506-510, 511-515, 516-520, 521-525, 526-530, 531-535, 536-540, 541-545, 546-550, 551-555, 556-560, 561-565, 566-570, 571-575, 576-580, 581-585, 586-590, 591-595, 596-600, 601-605, 606-610, 611-615, 616-620, 621-625, 626-630, 631-635, 636-640, 641-645, 646-650, 651-655, 656-660, 661-665, 666-670, 671-675, 676-680, 681-685, 686-690, 691-695, 696-700, 701-705, 706-710, 711-715, 716-720, 721-725, 726-730, 731-735, 736-740, 741-745, 746-750, 751-755, 756-760, 761-765, 766-770, 771-775, 776-780, 781-785, 786-790, 791-795, 796-800, 801-805, 806-810, 811-815, 816-820, 821-825, 826-830, 831-835, 836-840, 841-845, 846-850, 851-855, 856-860, 861-865, 866-870, 871-875, 876-880, 881-885, 886-890, 891-895, 896-900, 901-905, 906-910, 911-915, 916-920, 921-925, 926-930, 931-935, 936-940, 941-945, 946-950, 951-955, 956-960, 961-965, 966-970, 971-975, 976-980, 981-985, 986-990, 991-995, 996-1000, 1001-1005, 1006-1010, 1011-1015, 1016-1020, 1021-1025, 1026-1030, 1031-1035, 1036-1040, 1041-1045, 1046-1050, 1051-1055, 1056-1060, 1061-1065, 1066-1070, 1071-1075, 1076-1080, 1081-1085, 1086-1090, 1091-1095, 1096-1100, 1101-1105, 1106-1110, 1111-1115, 1116-1120, 1121-1125, 1126-1130, 1131-1135, 1136-1140, 1141-1145, 1146-1150, 1151-1155, 1156-1160, 1161-1165, 1166-1170, 1171-1175, 1176-1180, 1181-1185, 1186-1190, 1191-1195, 1196-1200, 1201-1205, 1206-1210, 1211-1215, 1216-1220, 1221-1225, 1226-1230, 1231-1235, 1236-1240, 1241-1245, 1246-1250, 1251-1255, 1256-1260, 1261-1265, 1266-1270, 1271-1275, 1276-1280, 1281-1285, 1286-1290, 1291-1295, 1296-1300, 1301-1305, 1306-1310, 1311-1315, 1316-1320, 1321-1325, 1326-1330, 1331-1335, 1336-1340, 1341-1345, 1346-1350, 1351-1355, 1356-1360, 1361-1365, 1366-1370, 1371-1375, 1376-1380, 1381-1385, 1386-1390, 1391-1395, 1396-1400, 1401-1405, 1406-1410, 1411-1415, 1416-1420, 1421-1425, 1426-1430, 1431-1435, 1436-1440, 1441-1445, 1446-1450, 1451-1455, 1456-1460, 1461-1465, 1466-1470, 1471-1475, 1476-1480, 1481-1485, 1486-1490, 1491-1495, 1496-1500, 1501-1505, 1506-1510, 1511-1515, 1516-1520, 1521-1525, 1526-1530, 1531-1535, 1536-1540, 1541-1545, 1546-1550, 1551-1555, 1556-1560, 1561-1565, 1566-1570, 1571-1575, 1576-1580, 1581-1585, 1586-1590, 1591-1595, 1596-1600, 1601-1605, 1606-1610, 1611-1615, 1616-1620, 1621-1625, 1626-1630, 1631-1635, 1636-1640, 1641-1645, 1646-1650, 1651-1655, 1656-1660, 1661-1665, 1666-1670, 1671-1675, 1676-1680, 1681-1685, 1686-1690, 1691-1695, 1696-1700, 1701-1705, 1706-1710, 1711-1715, 1716-1720, 1721-1725, 1726-1730, 1731-1735, 1736-1740, 1741-1745, 1746-1750, 1751-1755, 1756-1760, 1761-1765, 1766-1770, 1771-1775, 1776-1780, 1781-1785, 1786-1790, 1791-1795, 1796-1800, 1801-1805, 1806-1810, 1811-1815, 1816-1820, 1821-1825, 1826-1830, 1831-1835, 1836-1840, 1841-1845, 1846-1



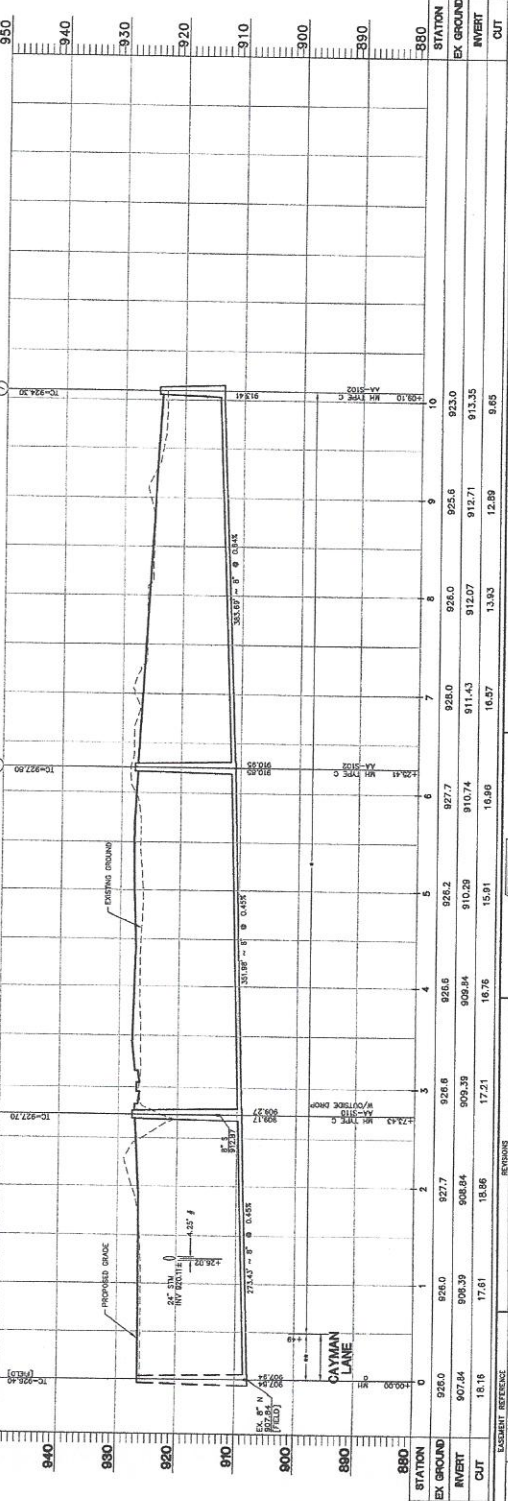
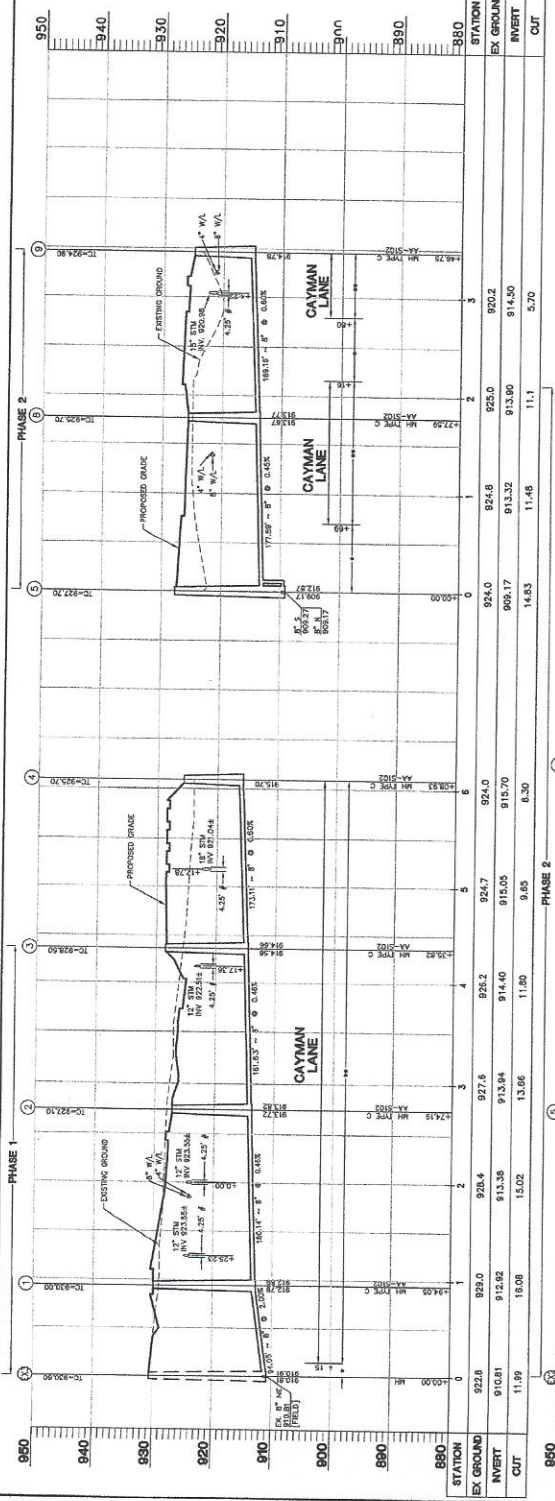




NOTE: ALL ELEVATIONS SHOWN ON THIS PLAN ARE BASED ON NAVD 83 DATUM, UNLESS OTHERWISE LABELED.  
 MINIMUM SLOPE OF 8" SANITARY IS 0.45%. ANY 8" SANITARY LAD AT LESS THAN MINIMUM CONTRACTOR'S EXPENSE. RELOAD AT CONTRACTOR'S EXPENSE.  
 \*COMPACTED GRANULAR BACKFILL PER CITY OF COLUMBUS ITEM 911.  
 \*COMPACTED GRANULAR BACKFILL PER CITY OF COLUMBUS ITEM 912.  
 # COMPACTED CLAY BARRIER PER DETAIL ON ANTI INFILTRATION AND INFLOW BARRIER CROSSINGS OF THE SANITARY MAINLINE AND SERVICES.



ANTI INFILTRATION AND INFLOW BARRIER DETAIL  
 NOTE: THE DETAIL INCLUDES BOTH SANITARY MAINLINE AND SERVICE LINES THAT ARE CROSSED BY STORM SEWER.



STATION	EX GROUND	INVERT	CUT
880	926.0	907.84	18.16
890	926.6	909.39	17.21
900	927.7	909.84	17.86
910	928.0	910.29	17.71
920	928.0	911.43	16.57
930	928.0	912.71	15.29
940	928.0	912.07	13.93
950	928.0	913.35	9.65

SANITARY SEWERS FOR THE TRADITIONS AT WORTHINGTON WOODS PHASES 1 AND 2

CITY OF COLUMBUS, OHIO  
 DEPARTMENT OF PUBLIC UTILITIES  
 DIVISION OF SEWERAGE AND DRAINAGE

OWNER: DIVISION USE ONLY  
 CONTRACTOR: [ ]  
 INSPECTOR: [ ]  
 AGREEMENT: [ ]  
 RFD: [ ]  
 LCKD: [ ]  
 CD: [ ]  
 INDEX: [ ]  
 RECORD: [ ]  
 DETAIL: [ ]  
 FILE: [ ]

Scale: 1" = 60' HORIZ. 1" = 10' VERT.  
 SHEET: 3 of 3  
 CONTRACT DRAWING NO.: CC-14535  
 RECORD PLAN NO.: [ ]

**Chil & Park**  
 Environmental Consultants, Inc.  
 4100 WOODLAND PARKWAY, SUITE 100  
 COLUMBUS, OHIO 43219  
 (614) 240-8833 (504) 788-4008