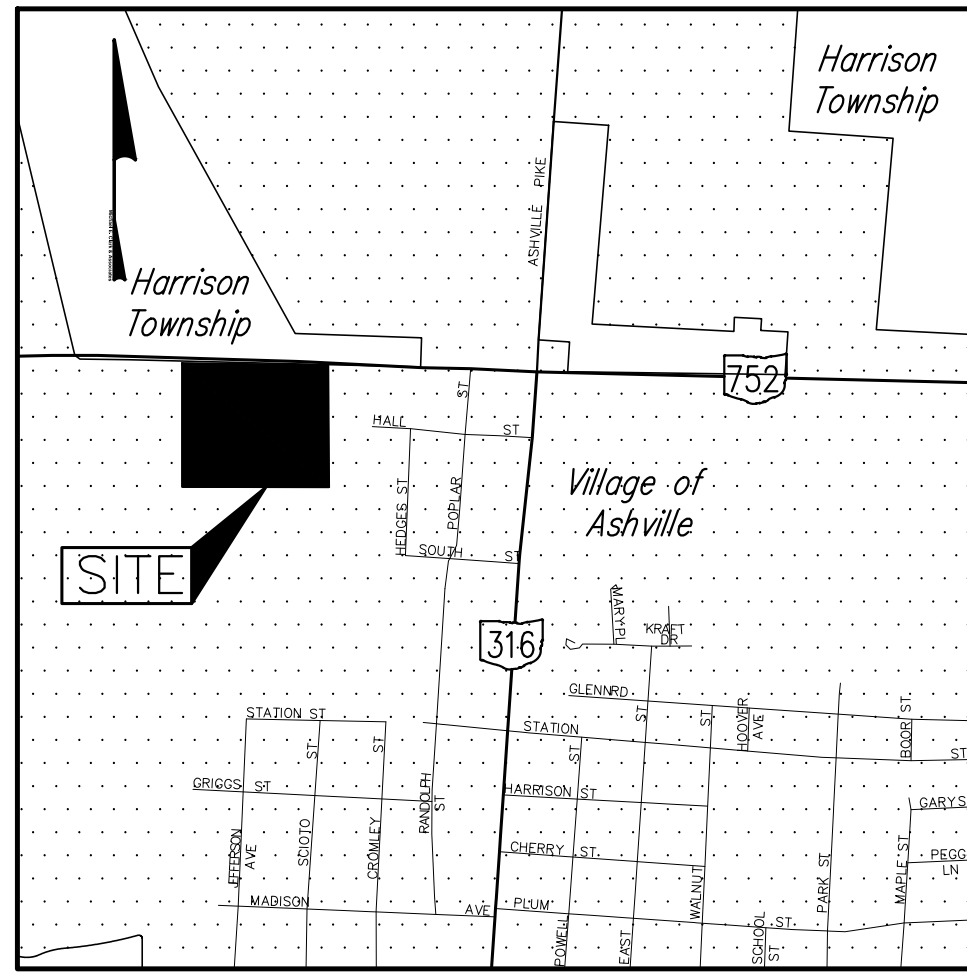


# VILLAGE OF ASHVILLE, PICKAWAY COUNTY, OHIO

## THE DISTILLERY

### SANITARY SEWER PLAN



**LOCATION MAP**  
1" = 1 Mile

#### BENCHMARKS

The Benchmark Elevations were Assigned Based on GPS Observations using the Ohio Department of Transportation's CORS Network.

#### Benchmark #1

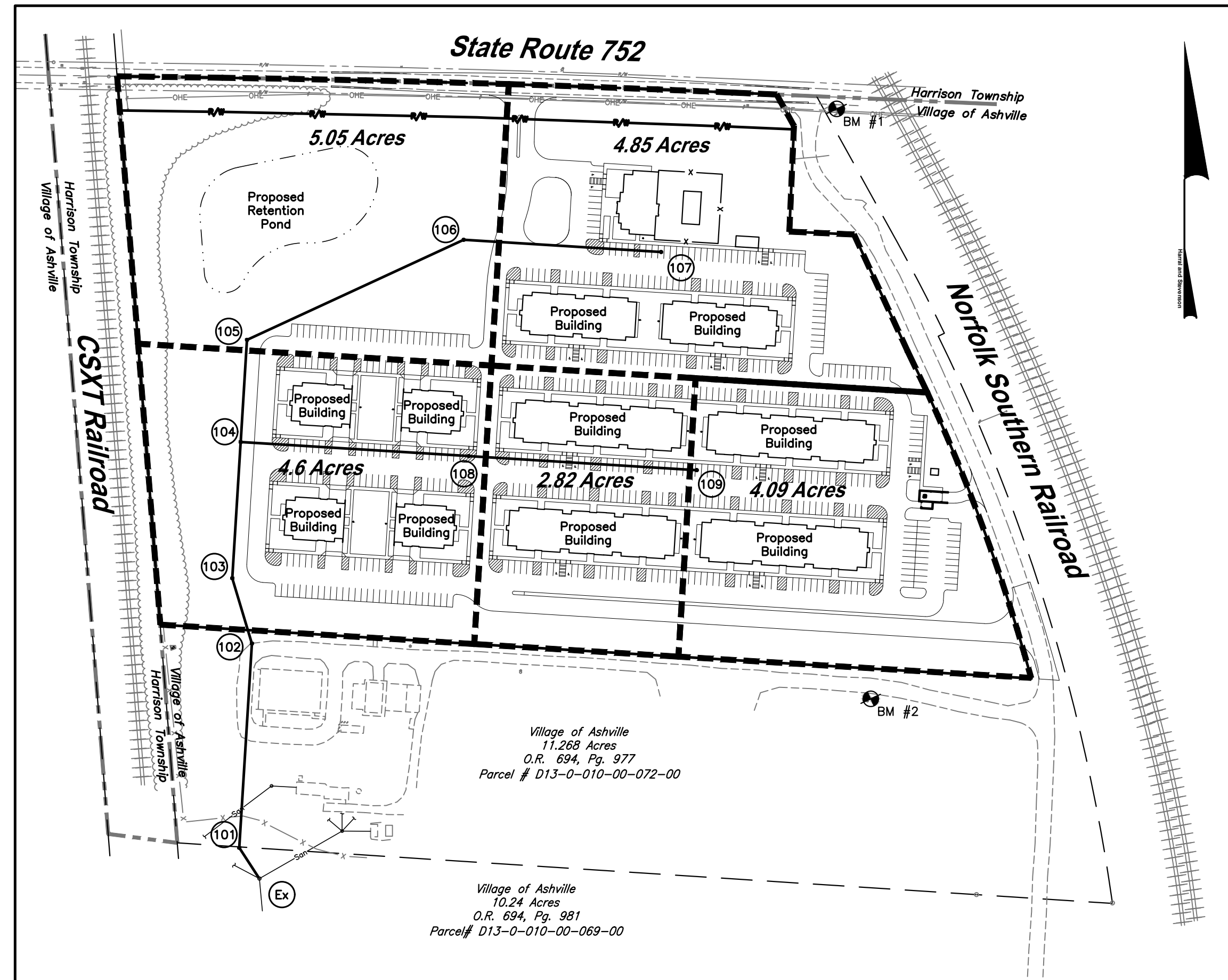
The Southwest Corner of a Concrete Catch Basin Located Approximately 85 Feet East of the Northeast Corner of the Site.

Elevation: 712.73 (NAVD 88 Datum)

#### Benchmark #2

The North Flange Bolt on a Fire Hydrant Located Approximately 240 Feet West of the Southeast Corner of the Site.

Elevation: 715.01 (NAVD 88 Datum)



**INDEX MAP**  
1" = 150'

#### STANDARD DRAWINGS

The City of Columbus Standard Drawings listed on this plan shall be considered part of this plan.

AA-S102	AA-S119
AA-S106	AA-S149
AA-S110	AA-S160
AA-S111	AA-S161
AA-S117	

#### SHEET INDEX

Sheet 1	Location Map, Index Map, General Notes and Estimated Quantities
Sheet 2	Standard Drawings
Sheet 3	Sanitary Sewer Plan
Sheet 4	Sanitary Sewer Profiles

#### UTILITY COMPANIES

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT AND DO NOT SUBSCRIBE TO A REGISTERED UNDERGROUND UTILITY SERVICES:

FRONTIER COMMUNICATIONS  
500 LANCASTER PIKE  
CIRCLEVILLE, OHIO 43113  
(740) 474-9197

COLUMBIA GAS TRANSMISSION  
1440 MCNAUGHTON ROAD  
COLUMBUS, OH 43232

SOUTH CENTRAL POWER COMPANY  
2780 COONPATH ROAD, NE  
LANCASTER, OHIO 43130  
(614) 653-4422

TIME WARNER COMMUNICATIONS  
1315 GRANVILLE PIKE  
LANCASTER, OHIO 43130  
(740) 635-9685

SBC  
140 WEST WHEELING STREET  
LANCASTER, OHIO 43130  
(740) 687-6696

COLUMBIA GAS OF OHIO  
843 PLATT AVENUE  
CHILLICOTHE, OHIO 45601  
(614) 772-9224

VILLAGE OF ASHVILLE SERVICE DEPARTMENT  
160 CHERRY STREET, ASHVILLE, OHIO 43103 (740) 983-4053  
(WATERLINE SANITARY SEWER & STORM SEWER ONLY)  
200 EAST STATION STREET, ASHVILLE OHIO 43103 (740) 983-6367

#### SANITARY SEWER NOTES

SAS 1 ALL SEWERS, APPURTENANCES, AND METHODS OF CONSTRUCTION AND WORKMANSHIP FOR SEWERS AND APPURTENANCES SHOWN ON THESE PLANS SHALL CONFORM TO THE CITY OF COLUMBUS CONSTRUCTION AND MATERIAL SPECIFICATION DIVISION 900 AND APPLICABLE REFERENCES THEREIN, CURRENT ON THE DATE OF THE CONTRACT, UNLESS THE REQUIREMENTS OF SUCH RULES AND REGULATIONS ARE UPGRADED OR MODIFIED BY THE FOLLOWING NOTES OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.

SAS 2 SANITARY SEWER LEAKAGE TESTING; LEAKAGE TESTING; LEAKAGE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF ITEM 901.20 AND SHALL INCLUDE MAIN SEWER, MANHOLES AND SERVICE CONNECTIONS DURING THE CONSTRUCTION OF THE SEWER AND MANHOLES GROUND WATER LEVELS SHALL BE OBSERVED AND REPORTED IN A SUITABLE LOG. GROUND WATER OBSERVATION PIPES SHALL BE INSTALLED IN MANHOLES AS FOLLOWS FOR THE PURPOSE OF MONITORING GROUND WATER LEVELS PREVAILING OVER THE PROJECT AT THE TIME OF LEAKAGE TESTING. THESE MANHOLES ARE MHS 2, 5, 7, 10, 13, 14, 17 AND 19.

SAS 3 THE CONTRACTOR'S SPECIFIC ATTENTION IS DIRECTED TO THE REQUIREMENTS OF EITHER THE INFILTRATION OR EXFILTRATION AS SPECIFIED BY THE VILLAGE OF ASHVILLE. LEAKAGE THROUGH THE JOINTS OF THE SEWER SHALL NOT EXCEED THE FOLLOWING ALLOWABLE LIMITS: ONE HUNDRED (100) GALLONS PER INCH OF TRIBUTARY SEWER DIAMETER PER TWENTY FOUR (24) HOURS PER MILE OF LENGTH OR THE COMPUTED EQUIVALENT FOR SHORTER LENGTHS AND SHORTER PERIODS OF TIME. ALL SANITARY SEWERS AND SERVICES SHALL BE TESTED. ALL SANITARY SEWERS SHALL BE SUBJECT TO AND PASS THE INFILTRATION OR EXFILTRATION TEST PRIOR TO ACCEPTANCE. AN AIR TEST IS ACCEPTABLE TO THE VILLAGE OF ASHVILLE. THIS AIR TEST SHALL BE PERFORMED ACCORDING TO THE CURRENT REGULATIONS OF THE VILLAGE'S ENGINEERING DEPARTMENT.

SAS 4 CLEAN WATER CONNECTIONS INCLUDING ROOF DRAINS, FOUNDATION DRAINS, PUMPS, ETC. ARE PROHIBITED FROM BEING CONNECTED TO THE SANITARY SEWER.

SAS 5 MATERIAL: UNLESS OTHERWISE INDICATED ON THE PLANS, SEWERS AND SERVICES ARE TO BE SUPPLIED WITH MATERIAL CONFORMING TO ITEM 901 CMSC.

POLYVINYL CHLORIDE (PVC) PLASTIC PIPE: ITEM 720.08 PIPE SHALL CONFORM TO ASTM D-3034 SDR 35 FOR SIZES 8", 10", 12" AND 15". FITTINGS SHALL ALSO CONFORM TO ASTM F-1336.

POLYVINYL CHLORIDE (PVC) LARGE DIAMETER PLASTIC PIPE: ITEM 720.08. THE PIPES AND FITTINGS SHALL CONFORM TO ASTM F-679 FOR SIZES 18" THROUGH 36".

SAS 6 PIPES FOR ALL 6" SERVICES SHALL BE PVC SEWER PIPE CONFORMING TO REQUIREMENTS OF ASTM D-3034, SDR 35. THESE SERVICES ARE ALSO SUBJECT TO LEAK TESTING. SERVICES EXTENSIONS SHALL BE INSTALLED AT A MINIMUM GRADE OF 1/4" PER FOOT AND SHALL BE CONSTRUCTED AT THE TIME OF CONSTRUCTING THE MAIN SEWER, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SAS 7 THE MINIMUM REQUIREMENT FOR SEWER PIPE ON THIS PROJECT SHALL BE SDR 35, ASTM D3034 POLYVINYL CHLORIDE (PVC) SEWER PIPE WITH ASTM C1784 CELL CLASSIFICATION OF 12454 B OR 12454 C, UNLESS OTHERWISE SHOWN ON THE PLANS.

SAS 8 ALL PVC PIPE SHALL BE DEFLECTION TESTED THIRTY (30) DAYS OR MORE AFTER THE TRENCH HAS BEEN BACKFILLED TO FINISHED GRADE. THE TESTING SHALL BE DONE IN ACCORDANCE WITH ITEM 901.21 CMSC. A RIGID MANHOLE PROVIDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER SHALL BE USED FOR THE TESTING. NO MECHANICAL PULLING DEVICES SHALL BE USED. PIPE DEFLECTION SHALL NOT EXCEED FIVE (5) PERCENT. AN ACCURATE LOG OF THE SEWER INSTALLATION SEGMENTS AND DATES SHALL BE KEPT BY THE CONTRACTOR.

SAS 9 6'-0" LONG CLAY DAMS ARE TO BE INSTALLED ALONG MAIN LINE SEWERS IN ACCORDANCE WITH ITEM 901.11 CMCS AT HALF THE DISTANCE BETWEEN EACH PAIR OF MANHOLES. BUT NO CLOSER THAN TEN (10) FEET FROM A LATERAL SERVICE. COST TO BE INCLUDED WITH CURIOUS SEWER ITEMS.

SAS 10 6'-0" LONG CLAY DAMS ARE TO BE INSTALLED ON ALL SANITARY LATERAL SEWERS BUT NO CLOSER THAN FIVE (5) FEET FROM THE END OF THE SERVICE. DAMS ARE TO BE INSTALLED BY SITE UTILITY CONTRACTOR WITH THE COST TO BE INCLUDED WITH VARIOUS SEWER ITEMS.

SAS 11 PUBLIC SANITARY MANHOLE COVERS ARE TO BE EAST JORDAN IRON WORKS NO. 1660-A2 OR EQUIVALENT AND EMBOSSED "VILLAGE OF ASHVILLE SANITARY SEWER".

SAS 12 ALL SANITARY MANHOLES AND LATERAL SERVICES ARE TO BE MARKED WITH A 4"x4"x10'-0" PRESSURE TREATED WOOD POST WITH 4'-0" PROJECTING ABOVE THE FINISHED GRADE AND WITH THE TOP 1'-0" PAINTED GREEN ON FOUR (4) SIDES. ADDITIONALLY A 2"x2" HARDWOOD WYE POLE IS TO BE WIRED TO THE BASE OF EACH 4"x4" POLE AND EXTENDED DOWN TO THE END OF EACH LATERAL SERVICE. COST TO BE INCLUDED IN THE VARIOUS ITEMS.

SAS 13 WHERE THE COVER TO FINISHED GRADE OVER A SANITARY WYE IS IN EXCESS OF TWELVE (12) FEET, A LENGTH OF RISER PIPE AND A FORTY-FIVE (45) DEGREE BEND SHALL BE INSTALLED ALONG WITH A MINIMUM OF ONE WHOLE LENGTH OF SIX (6) INCH PIPE SUCH THAT THE END OF THE SERVICE WILL BE TEN (10) FEET BELOW GRADE. ALL SANITARY LINES AND SERVICES ARE TO BE DESIGNED AND INSTALLED SO AS TO PROVIDE BASEMENT SERVICE.

SAS 14 WHERE THE SANITARY SEWER CROSSES UNDER A PROPOSED STORM SEWER OR WATERLINE THE TRENCH SHALL BE BACKFILLED TO THE BOTTOM OF THE PROPOSED STORM SEWER OR WATERLINE WITH COMPACTED GRANULAR MATERIAL AS PER ITEM 912, FOR A LENGTH OF TWENTY (20) LINEAR FEET CENTERED ON THE STORM SEWER OR WATERLINE. THE COST OF THIS WORK IS TO BE INCLUDED IN THE PRICE BID FOR THE VARIOUS SEWER ITEMS.

SAS 15 PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY MANHOLE CONSTRUCTION AND TOP-OF-CASTING ELEVATION MANHOLES SHALL BE BUILT OR ADJUSTED SO THE TOPS CONFORM TO THE ELEVATIONS SHOWN ON THESE PLANS. ALL MANHOLE CASTING ADJUSTMENTS SHALL BE ACCOMPLISHED WITH PRE-CAST CONCRETE ADJUSTMENT RINGS.

SAS 16 ALL PIPES SHALL BE INSTALLED WITH STONE OR GRAVEL BEDDING AS SHOWN IN THE STANDARD DRAWINGS.

SAS 17 SANITARY TRENCH DETAILS SHALL BE IN ACCORDANCE WITH THE CITY OF COLUMBUS STANDARD DRAWINGS AA-S149 UNLESS OTHERWISE INDICATED BY VILLAGE OF ASHVILLE STANDARD DRAWINGS. ALL

PIPES SHALL BE INSTALLED WITH STONE OR GRAVEL TYPE BEDDING.

SAS 18 TEMPORARY BULKHEADS SHALL BE PLACES WHERE INDICATED ON THE PLANS AND SHALL REMAIN IN PLACE UNTIL REMOVAL IS DIRECTED BY THE VILLAGE ENGINEER. BULKHEADS SHALL BE INSTALLED IN MANHOLE #2 ON 12' (E) AND ON MANHOLE #5 ON 8' (N) AND 12' (E).

SAS 19 SANITARY LATERALS INSTALLED IN A COMMON TRENCH ARE TO BE INSTALLED WITH A MINIMUM 2'-0"

CENTER TO CENTER SEPARATION OF PIPES IN A 4'-0" MINIMUM TRENCH WITH A 1'-0" MINIMUM BEDDING AROUND PIPES. PIPE ENDS ARE TO BE FLARED TO A MINIMUM 10'-0" CENTER TO CENTER SEPARATION OF PIPES AT 5'-0" FROM THE PROPERTY LINE RIGHT-OF-WAY.

SAS 20 A PERMANENT FLEXIBLE WATER JOINT SEALANT BETWEEN THE TOPS OF SANITARY MANHOLES AND MANHOLE CASTINGS SHALL BE INSTALLED. SEALANT TO BE "CONSEAL" AS MANUFACTURED BY CONCRETE SEALANTS, INC. NEW CARLISLE, OHIO OR APPROVED EQUAL.

SAS 21 EACH MANHOLE SHALL BE PROVIDED WITH A "CHIMNEY SEAL" CONSISTING OF A TRIPLE PLEATED RUBBER SLEEVE HAVING A MINIMUM THICKNESS OF 3/16 INCH, A MINIMUM UNEXPANDED VERTICAL HEIGHT OF EIGHT (8) INCHES, CAPABLE OF EXPANDING NOT LESS THAN TWO (2) INCHES VERTICALLY WHEN INSTALLED, EQUIPPED WITH SIXTEEN (16) GAUGE BY 1-3/4 INCH WIDE A.S.T.M. STAINLESS STEEL TYPE 304 EXPANSION BANDS. THE ENTIRE UNIT AS MANUFACTURED BY CRETEX SPECIALTY PRODUCTS OR APPROVED EQUAL.

SAS 22 NO FLOW MAY BE DIVERTED INTO THE NEW OR EXISTING SEWER UNTIL THEY HAVE BEEN INSPECTED, TESTED, AND APPROVED FOR USE. WRITTEN APPROVAL FOR SUCH USE SHALL BE OBTAINED FROM THE VILLAGE OF ASHVILLE.

**OPEN NOTES:**  
THE SEPARATION OF WATER MAINS AND SANITARY SEWER SHALL BE IN ACCORDANCE WITH TEN STATES STANDARDS 8.8.2 AND 8.8.3.  
  
ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAR WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

ESTIMATE OF QUANTITIES				
The plan quantities shown below are the engineer's estimate only. The Contractor shall be responsible for calculating quantities based on the plan for bidding and construction purposes.				
Item	Quan.	Unit	Description	
207	Lump	Sum	Erosion Control	
604	9	Each	Manhole, Type C	
901	2,114	L.F.	8" PVC, SDR 35 Sanitary Sewer	
915	11	Each	8"x6" Wye	
915	11	Each	Cleanout	
918	934	L.F.	6" PVC, SDR 35 Sanitary Service	
623	Lump	Sum	Construction Layout	
624	Lump	Sum	Mobilization	

#### APPROVED BY:

Approval of these plans does not constitute assurance to operate as intended. The reviewer does not accept responsibility for the integrity of the plans.

Charles K. Wise  
Mayor, Village of Ashville

Christopher M. Tebbe, P.E. No. 68106  
Village Engineer, Village of Ashville

Franklin Christman  
Village Administrator, Village of Ashville

Service Department Supervisor,  
Village of Ashville

#### OWNER/DEVELOPER

AB Contracting, Inc.  
740-794-1934  
clear@abcontractingvw.com  
5521 Ohio River Road  
Point Pleasant, West Virginia 25550

#### PREPARED BY:

**Harral and Stevenson**  
Civil Engineering and Surveying  
2869 North Court Street  
Circleville, Ohio 43113  
Ph: 740.497.4432  
www.harralstevenson.com

Craig E. Stevenson, PE #0114  
Harral and Stevenson, LLC

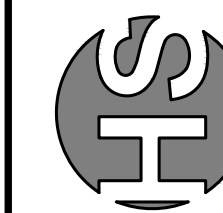
11/01/2022  
Date:

Date: Nov. 03, 2022  
Project: E221073

Scale: As Noted  
Sheet: 1/4

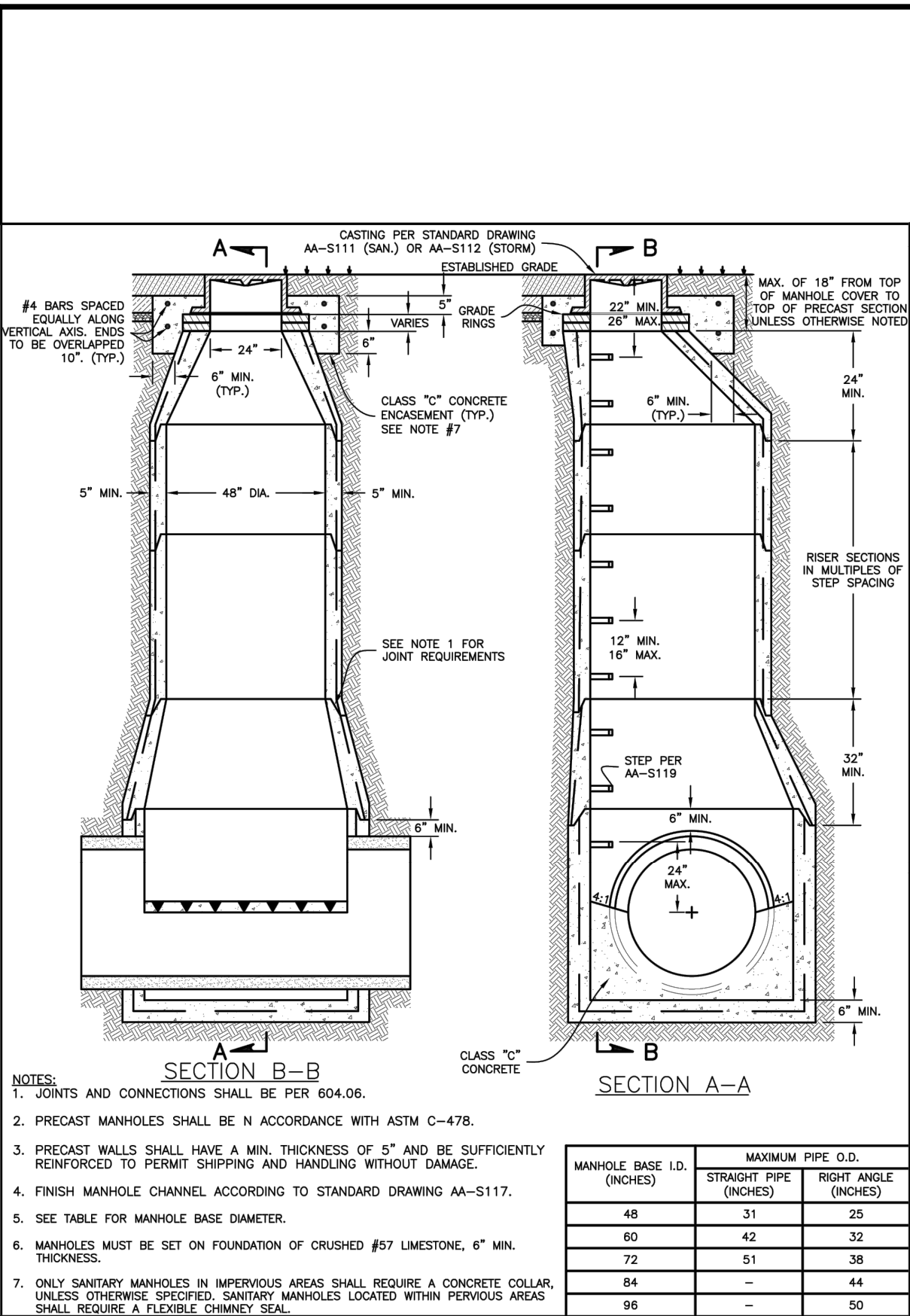
VILLAGE OF ASHVILLE, PICKAWAY COUNTY, OHIO  
**THE DISTILLERY**  
SANITARY SEWER PLAN  
LOCATION MAP, INDEX MAP, GENERAL NOTES AND ESTIMATED QUANTITIES

**Harral and Stevenson**  
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2869 North Court Street  
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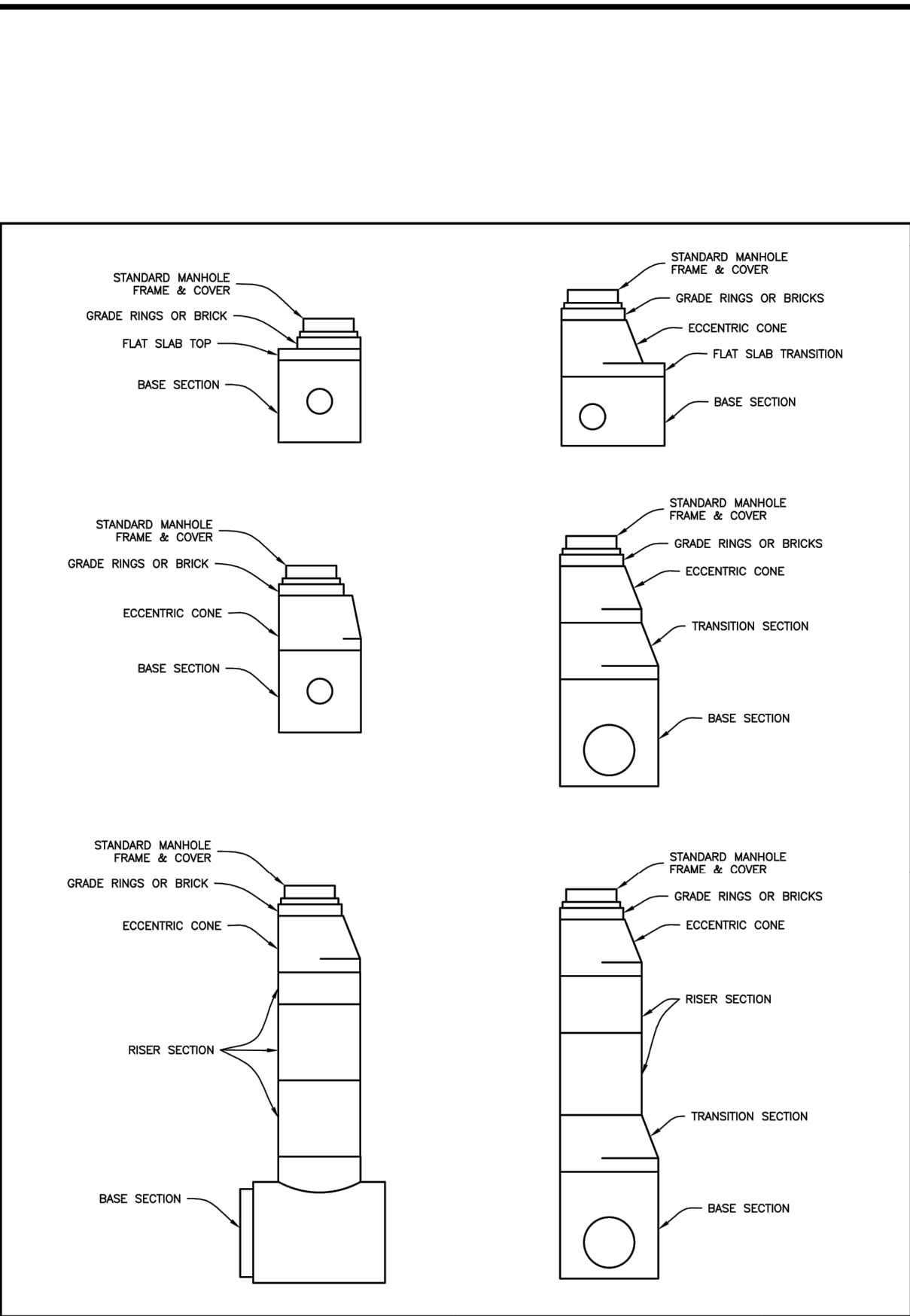
CALL AT LEAST 48 HOURS BUT NO MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND LEGAL HOLIDAYS)  
NON-MEMBERS MUST BE CALLED DIRECTLY





- NOTES:**
- JOINTS AND CONNECTIONS SHALL BE PER 604.06.
  - PRECAST MANHOLES SHALL BE IN ACCORDANCE WITH ASTM C-478.
  - PRECAST WALLS SHALL HAVE A MIN. THICKNESS OF 5" AND BE SUFFICIENTLY REINFORCED TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.
  - FINISH MANHOLE CHANNEL ACCORDING TO STANDARD DRAWING AA-S117.
  - SEE TABLE FOR MANHOLE BASE DIAMETER.
  - MANHOLES MUST BE SET ON FOUNDATION OF CRUSHED #57 Limestone, 6" MIN. THICKNESS.
  - ONLY SANITARY MANHOLES IN IMPERVIOUS AREAS SHALL REQUIRE A CONCRETE COLLAR, UNLESS OTHERWISE SPECIFIED. SANITARY MANHOLES LOCATED WITHIN PERVIOUS AREAS SHALL REQUIRE A FLEXIBLE CHIMNEY SEAL.

MANHOLE BASE I.D. (INCHES)	STRAIGHT PIPE (INCHES)	MAXIMUM PIPE O.D. (INCHES)	RIGHT ANGLE (INCHES)
48	31	25	32
60	42	32	40
72	51	38	48
84	-	44	-
96	-	50	-

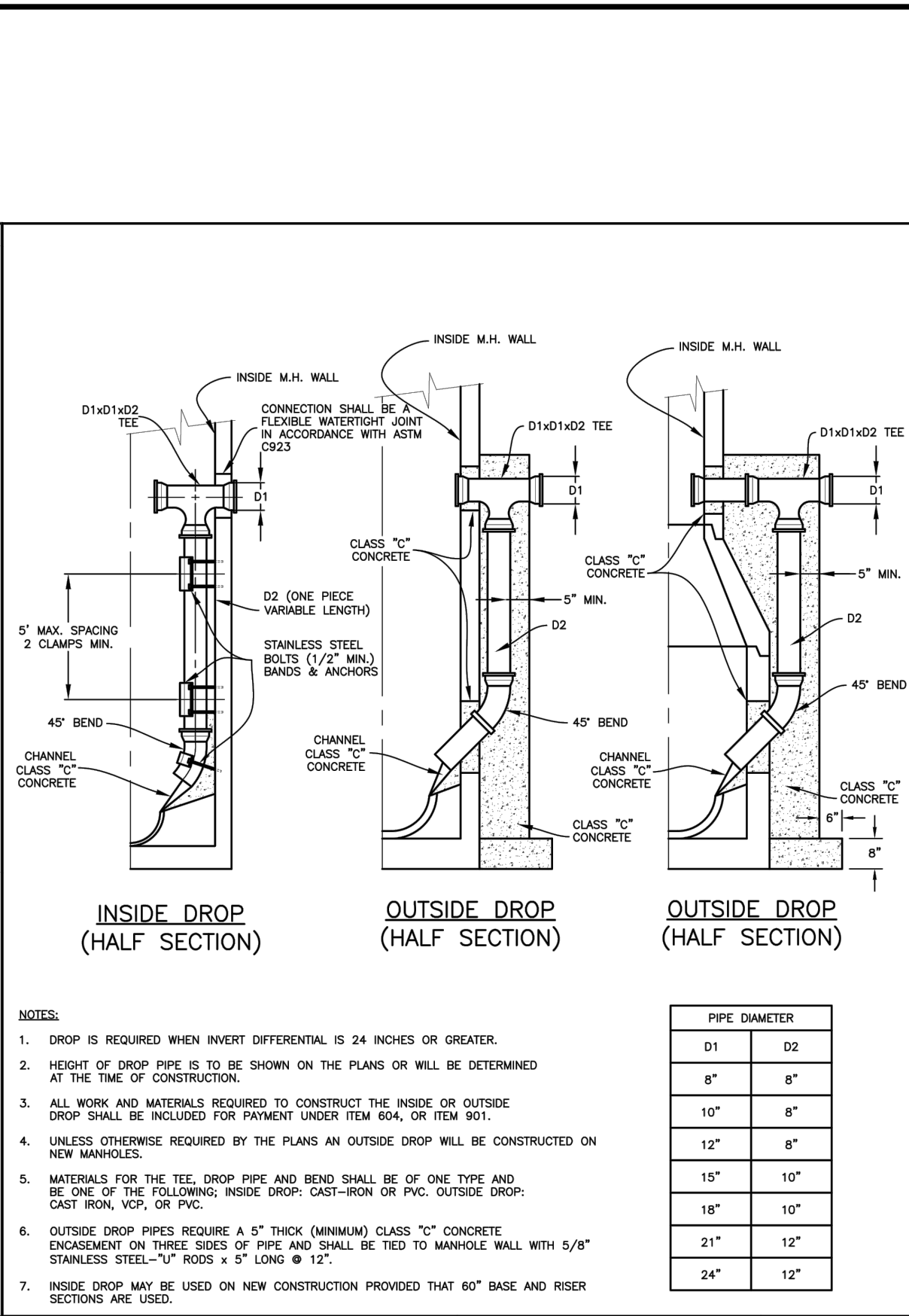


CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF SEWERAGE & DRAINAGE

STANDARD DRAWING  
AA-S106

REVISED 12/6/13

SS&S MANAGER *John H. Anderson*



- NOTES:**
- DROP IS REQUIRED WHEN INVERT DIFFERENTIAL IS 24 INCHES OR GREATER.
  - HEIGHT OF DROP PIPE IS TO BE SHOWN ON THE PLANS OR WILL BE DETERMINED AT THE TIME OF CONSTRUCTION.
  - ALL WORK AND MATERIALS REQUIRED TO CONSTRUCT THE INSIDE OR OUTSIDE DROP SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 604, OR ITEM 901.
  - UNLESS OTHERWISE REQUIRED BY THE PLANS AN OUTSIDE DROP WILL BE CONSTRUCTED ON NEW MANHOLES.
  - MATERIALS FOR THE TEE, DROP PIPE AND BEND SHALL BE OF ONE TYPE AND BE ONE OF THE FOLLOWING: INSIDE DROP- CAST-IRON OR PVC; OUTSIDE DROP- CAST IRON, VCP, OR PVC.
  - OUTSIDE DROP PIPES REQUIRE A 5" THICK (MINIMUM) CLASS "C" CONCRETE ENCASEMENT ON THREE SIDES OF PIPE AND SHALL BE TIED TO MANHOLE WALL WITH 5/8" STAINLESS STEEL-"U" RODS x 5" LONG @ 12".
  - INSIDE DROP MAY BE USED ON NEW CONSTRUCTION PROVIDED THAT 60" BASE AND RISER SECTIONS ARE USED.

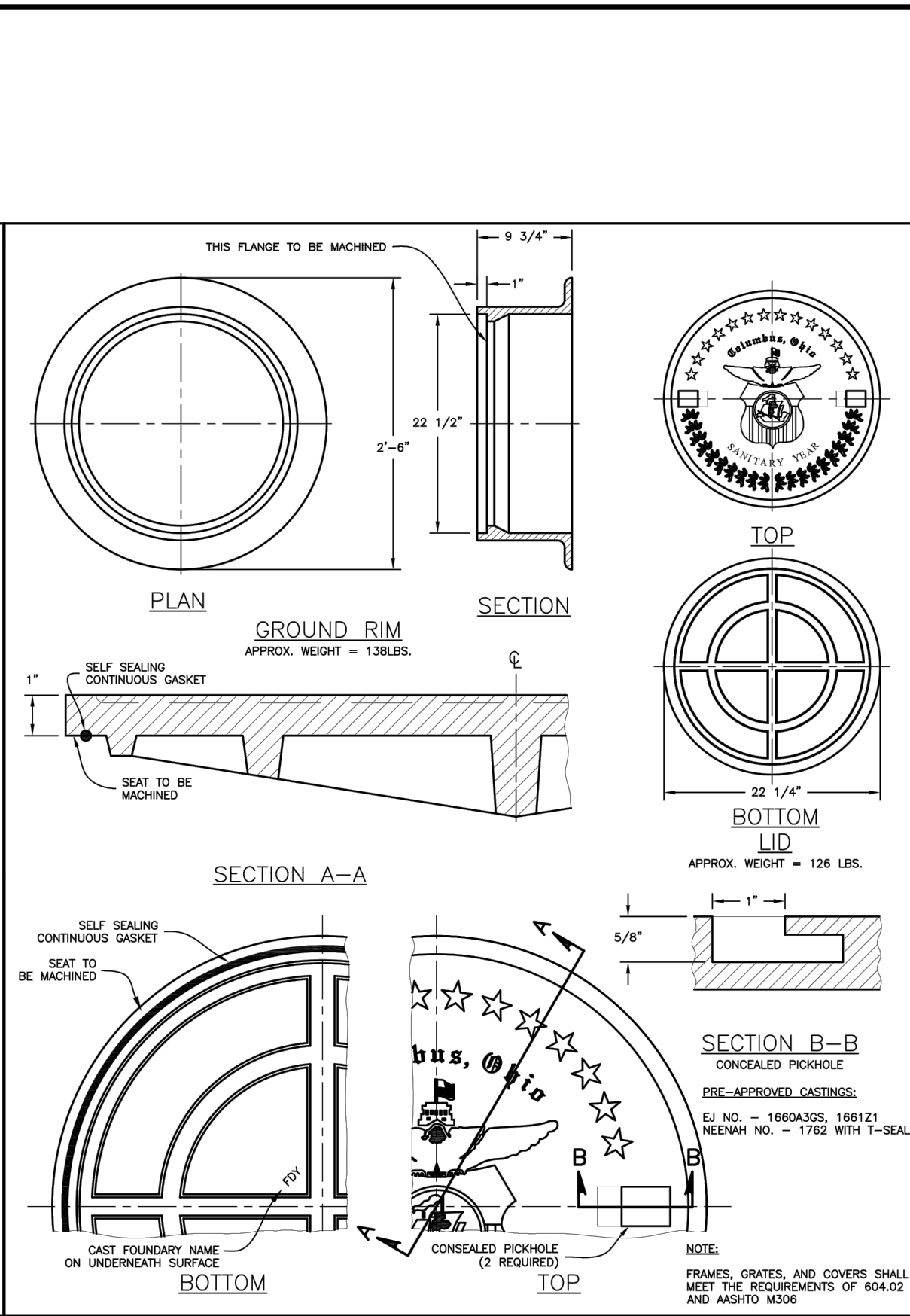
PIPE DIAMETER	
D1	D2
8"	8"
10"	8"
12"	8"
15"	10"
18"	10"
21"	12"
24"	12"

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

STANDARD DRAWING  
AA-S110

REVISED 9/20/12

SS&S MANAGER *John H. Anderson*



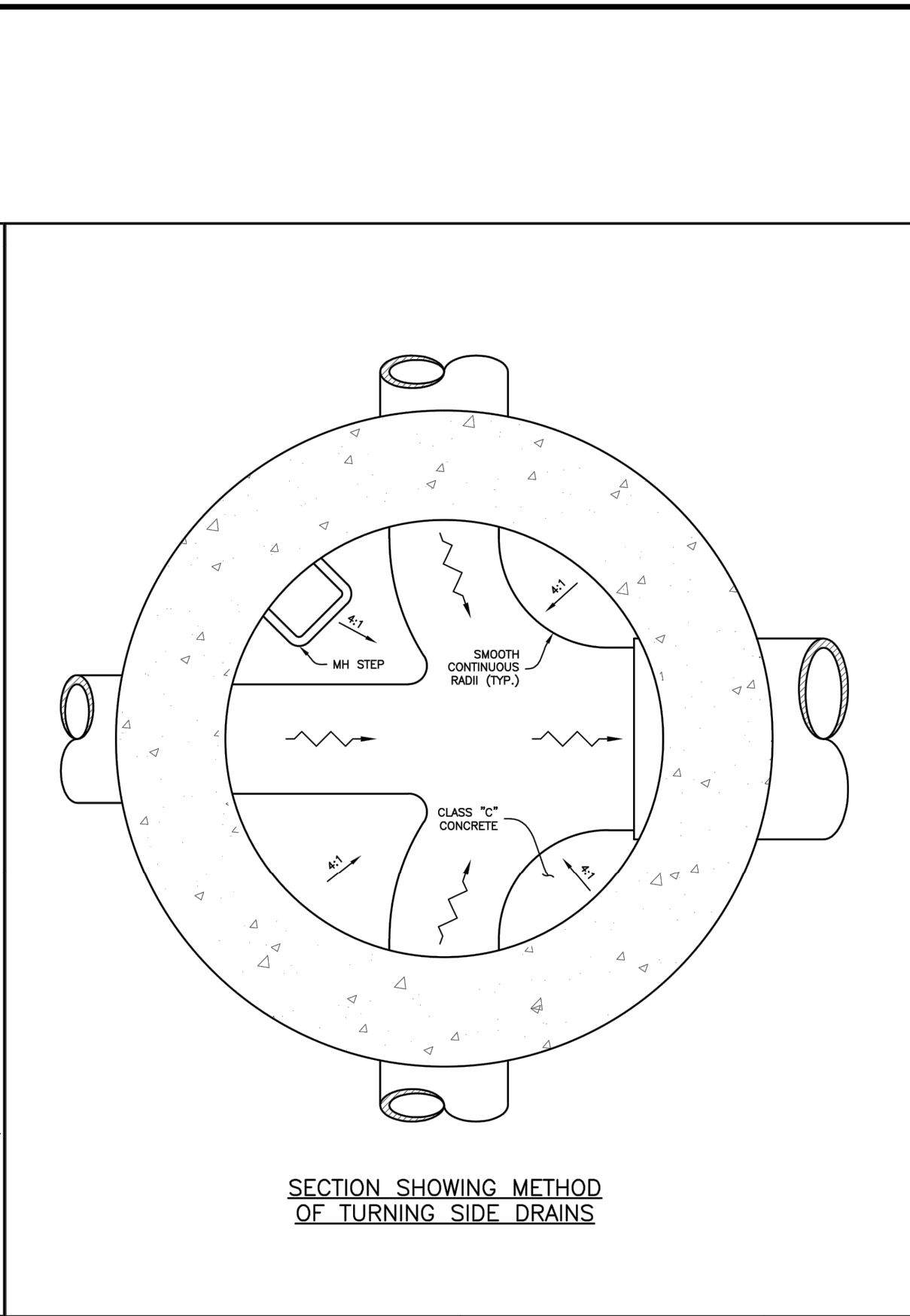
CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF SEWERAGE & DRAINAGE

STANDARD DIMENSIONS FOR MANHOLE FRAME & COVER CASTING (SANITARY SEWERS)

STANDARD DRAWING  
AA-S111

REVISED 12/6/13

SS&S MANAGER *John H. Anderson*



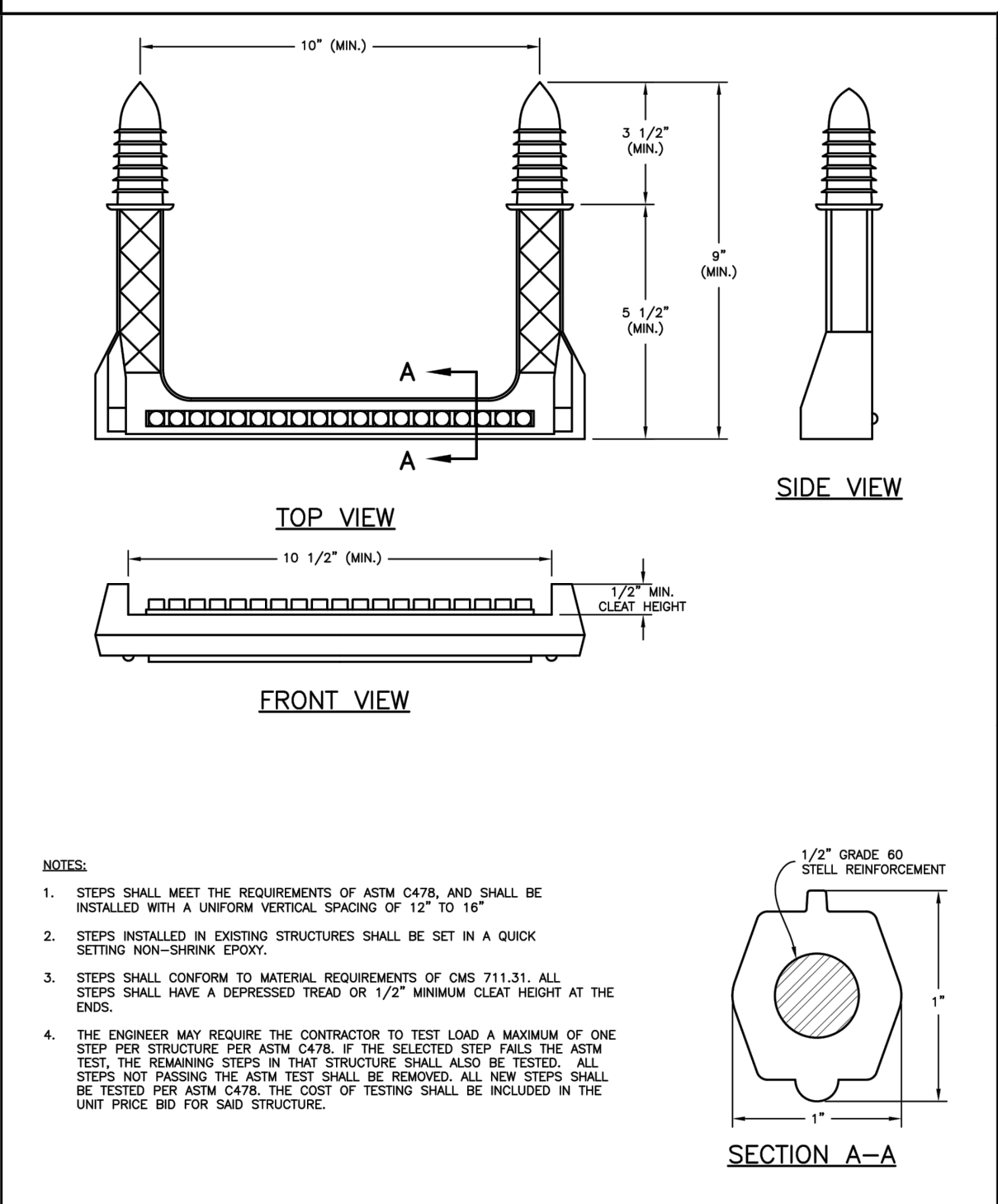
CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF SEWERAGE & DRAINAGE

PRECAST MANHOLE BASE CHANNEL DETAIL

STANDARD DRAWING  
AA-S117

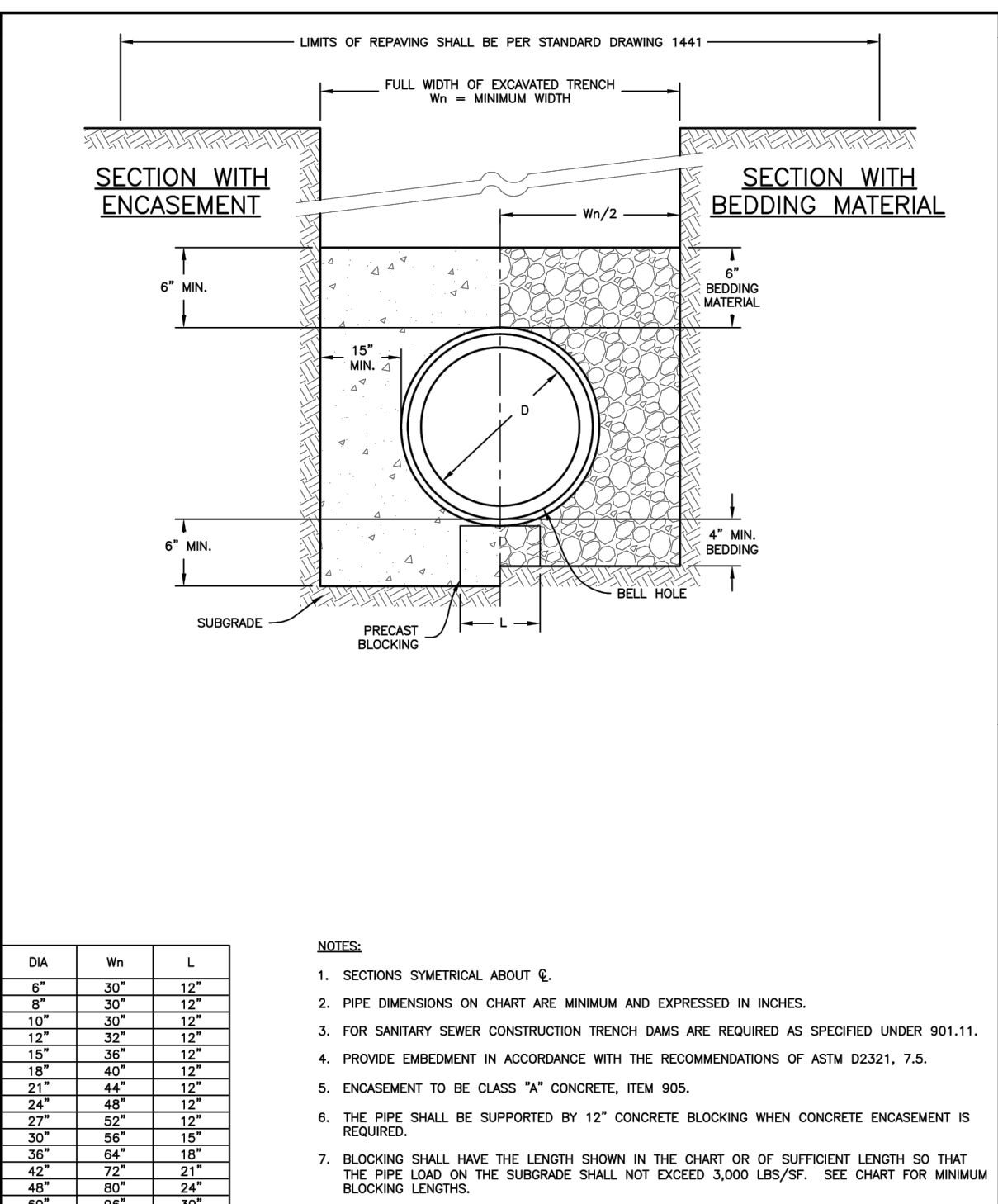
REVISED 7/9/12

SS&S MANAGER *John H. Anderson*



- NOTES:**
- STEPS SHALL MEET THE REQUIREMENTS OF ASTM C478, AND SHALL BE INSTALLED WITH A UNIFORM VERTICAL SPACING OF 12" TO 16"
  - STEPS INSTALLED IN EXISTING STRUCTURES SHALL BE SET IN A QUICK SETTING NON-SHRINK EPOXY.
  - STEPS SHALL CONFORM TO MATERIAL REQUIREMENTS OF CWS 711.31. ALL STEPS SHALL HAVE A DERESSED TREAD OR 1/2" MINIMUM CLEAR HEIGHT AT THE ENDS.
  - THE ENGINEER MAY REQUIRE THE CONTRACTOR TO TEST LOAD A MAXIMUM OF ONE STEP PER STRUCTURE PER ASTM C478. IF THE SELECTED STEP FAILS THE ASTM TEST, THE REMAINING STEPS IN THAT STRUCTURE SHALL ALSO BE TESTED. ALL STEPS NOT PASSING THE ASTM TEST SHALL BE REMOVED. ALL NEW STEPS SHALL BE TESTED PER ASTM C478. THE COST OF TESTING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR SAID STRUCTURE.

DIA	W <sub>n</sub>	L
6"	30"	12"
8"	30"	12"
10"	30"	12"
12"	30"	12"
15"	36"	12"
18"	40"	12"
21"	44"	12"
24"	48"	12"
27"	52"	12"
30"	56"	12"
36"	64"	18"
42"	72"	21"
48"	80"	24"
60"	96"	30"



- NOTES:**
- SECTIONS SYMMETRICAL ABOUT @.
  - PIPE DIMENSIONS ON CHART ARE MINIMUM AND EXPRESSED IN INCHES.
  - FOR SANITARY SEWER CONSTRUCTION TRENCH DAMS ARE REQUIRED AS SPECIFIED UNDER 901.11.
  - PROVIDE EMBEDMENT IN ACCORDANCE WITH THE RECOMMENDATIONS OF ASTM D2321, 7.5.
  - ENCASEMENT TO BE CLASS "A" CONCRETE, ITEM 905.
  - THE PIPE SHALL BE SUPPORTED BY 12" CONCRETE BLOCKING WHEN CONCRETE ENCASEMENT IS REQUIRED.
  - BLOCKING SHALL HAVE THE LENGTH SHOWN IN THE CHART OR OF SUFFICIENT LENGTH SO THAT THE PIPE LOAD ON THE SUBGRADE SHALL NOT EXCEED 3,000 LBS/SF. SEE CHART FOR MINIMUM BLOCKING LENGTHS.

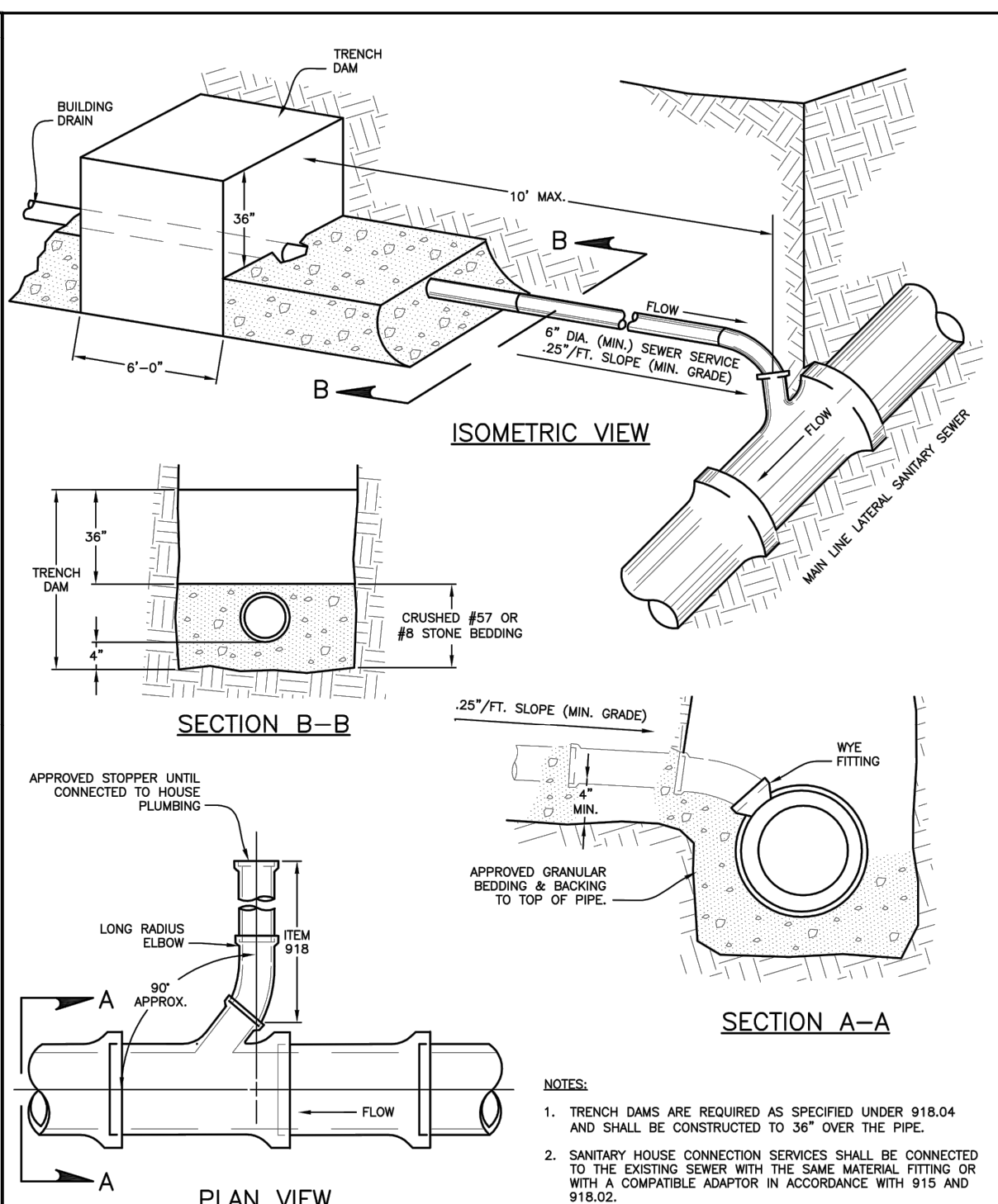
CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF SEWERAGE & DRAINAGE

TYPE I BEDDING FOR FLEXIBLE SEWER PIPE 6" TO 60" DIAMETER

STANDARD DRAWING  
AA-S149

REVISED 10/15/14

SS&S MANAGER *John H. Anderson*



- NOTES:**
- TRENCH DAMS ARE REQUIRED AS SPECIFIED UNDER 916.04 AND SHALL BE CONSTRUCTED TO 36" OVER THE PIPE.
  - SANITARY HOUSE CONNECTION SERVICES SHALL BE CONNECTED TO THE EXISTING SEWER WITH THE SAME MATERIAL FITTING OR WITH A COMPATIBLE ADAPTOR IN ACCORDANCE WITH 915 AND 916.02.

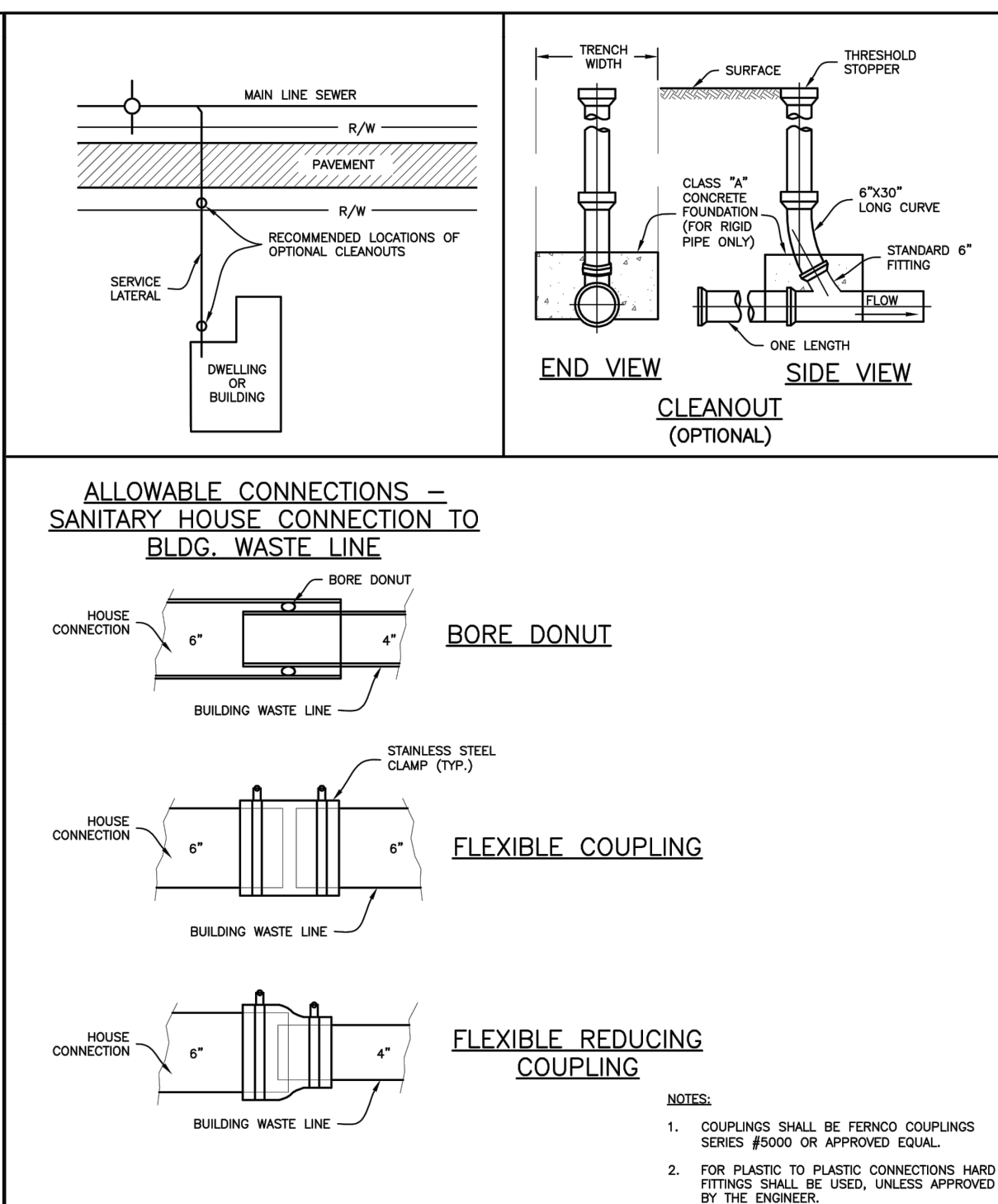
CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF SEWERAGE & DRAINAGE

TYPICAL SANITARY HOUSE SERVICE CONNECTION

STANDARD DRAWING  
AA-S160

REVISED 3/25/21

SS&S MANAGER *John H. Anderson*



- NOTES:**
- COUPLINGS SHALL BE FERROUS COUPLINGS SERIES #5000 OR APPROVED EQUAL.
  - FOR PLASTIC TO PLASTIC CONNECTIONS HARD FITTINGS SHALL BE USED, UNLESS APPROVED BY THE ENGINEER.

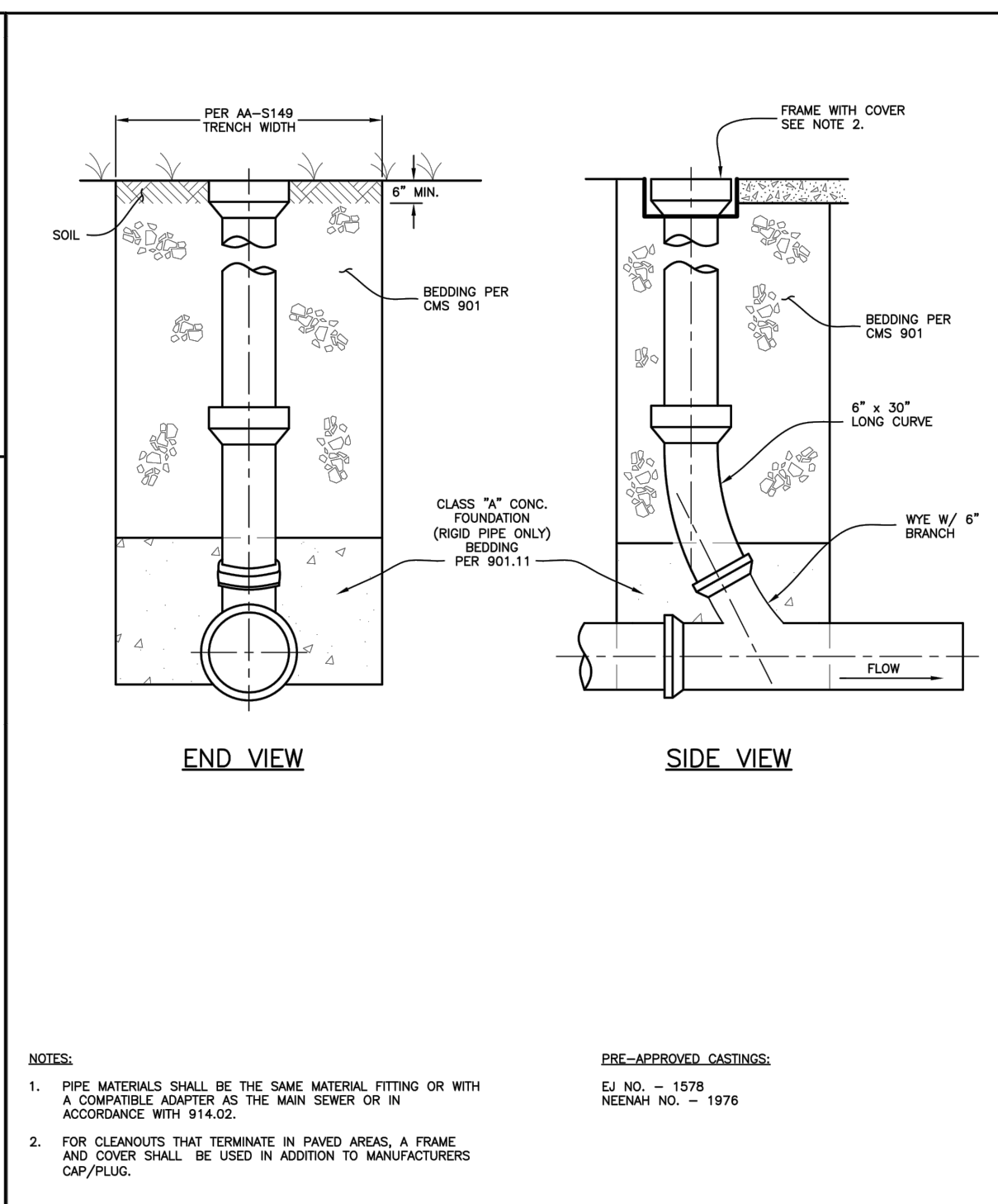
CITY OF COLUMBUS, OHIO  
DEPARTMENT OF PUBLIC UTILITIES  
DIVISION OF SEWERAGE & DRAINAGE

TYPICAL SANITARY HOUSE SERVICE CONNECTION

STANDARD DRAWING  
AA-S160

REVISED 3/25/20

SS&S MANAGER *John H. Anderson*



- NOTES:**
- PIPE MATERIALS SHALL BE THE SAME MATERIAL FITTING OR WITH A COMPATIBLE ADAPTER AS THE MAIN SEWER OR IN ACCORDANCE WITH 914.02.
  - FOR CLEANOUTS THAT TERMINATE IN PAVED AREAS, A FRAME AND COVER SHALL BE USED IN ADDITION TO MANUFACTURERS CAP/PLUG.

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

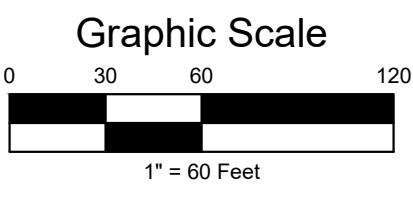
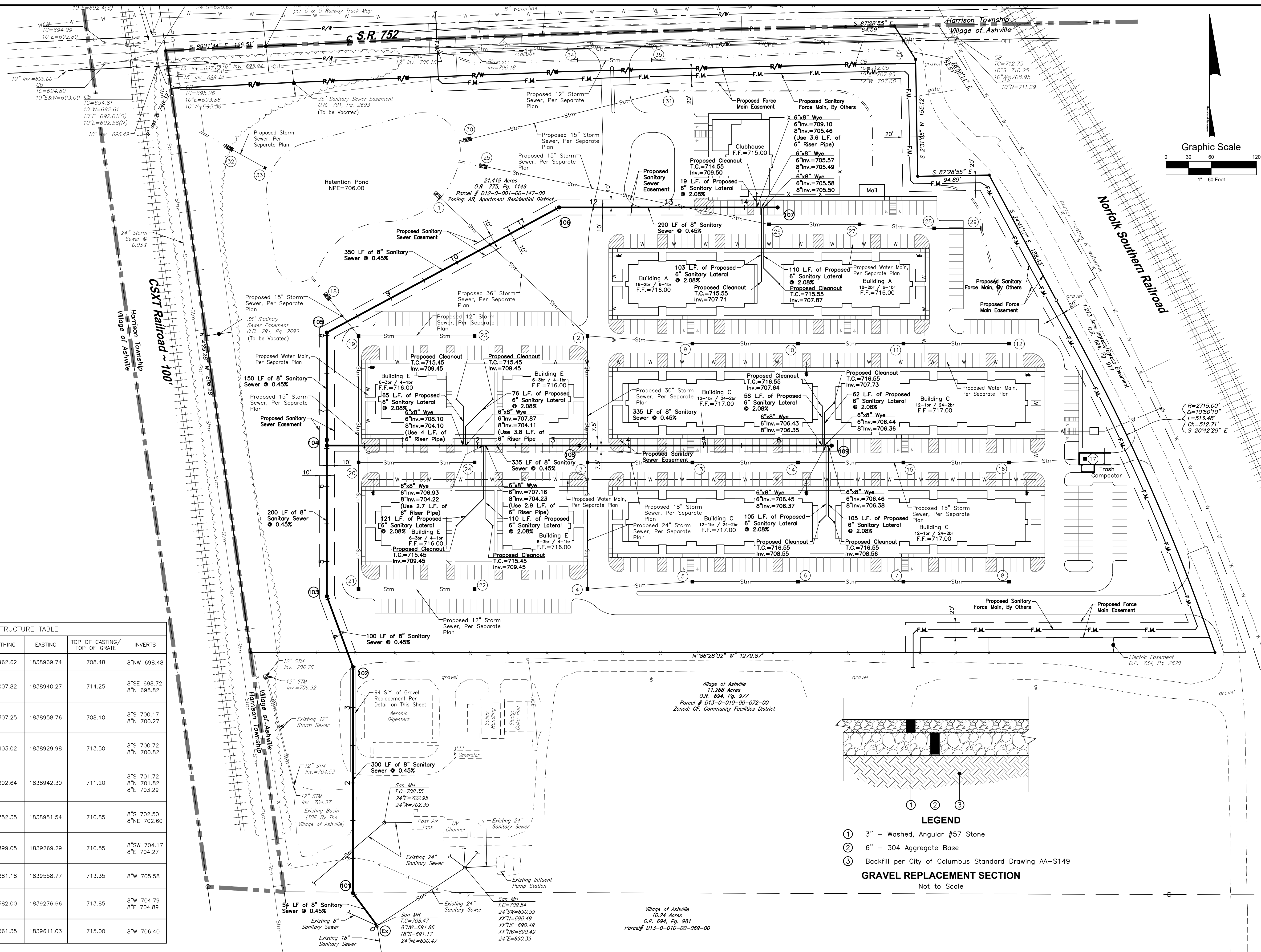
TYPICAL CLEANOUT

STANDARD DRAWING  
AA-S161

REVISED 12/6/13

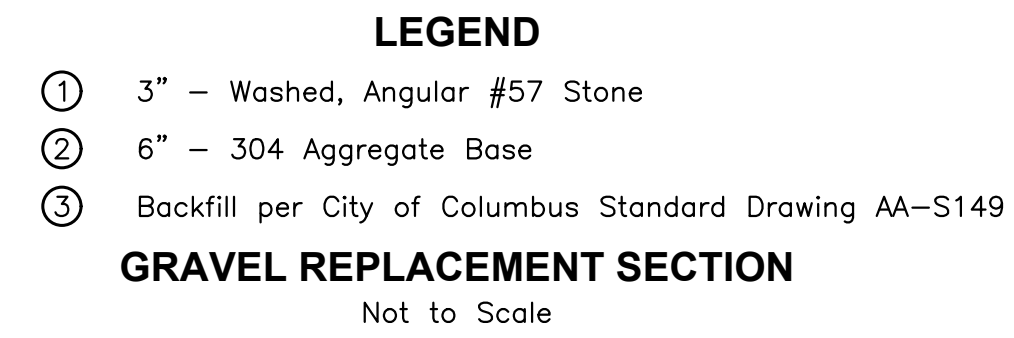
SS&S MANAGER *John H. Anderson*





MH-MH	SIZE	LENGTH	SLOPE	BEARING
Ex-101	8"	53.96	0.45%	N33°06'00"W
101-102	8"	300.00	0.45%	N3°31'58"E
102-103	8"	100.00	0.45%	N16°43'32"W
103-104	8"	200.00	0.45%	N3°31'58"E
104-105	8"	150.00	0.45%	N3°31'58"E
105-106	8"	349.97	0.45%	N65°13'03"E
106-107	8"	290.03	0.45%	S86°28'02"E
104-108	8"	335.00	0.45%	S86°28'02"E
108-109	8"	335.00	0.45%	S86°28'02"E

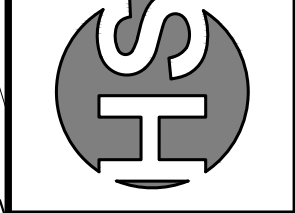
STRUCTURE #	STRUCTURE TYPE	NORTHING	EASTING	TOP OF CASTING / TOP OF GRATE	INVERTS
Ex	Existing Manhole, Type C (AA-S102)	626962.62	1838969.74	708.48	8"NW 698.48
101	Proposed Manhole, Type C (AA-S102)	627007.82	1838940.27	714.25	8"SE 698.72 8" N INV IN = 698.72 8" N INV OUT = 698.82
102	Proposed Manhole, Type C (AA-S102)	627307.25	1838958.76	708.10	8" S 700.17 8" N INV IN = 700.17 8" N INV OUT = 700.27
103	Proposed Manhole, Type C (AA-S102)	627403.02	1838929.98	713.50	8" S 700.72 8" N INV IN = 700.72 8" N INV OUT = 700.82
104	Proposed Manhole, Type C (AA-S102)	627602.64	1838942.30	711.20	8" S 701.72 8" N INV IN = 701.72 8" N INV OUT = 701.82 8" E INV OUT = 703.29
105	Proposed Manhole, Type C (AA-S102)	627752.35	1838951.54	710.85	8" S 702.50 8" NE INV IN = 702.50 8" NE INV OUT = 702.60
106	Proposed Manhole, Type C (AA-S102)	627899.05	1839269.29	710.55	8" SW 704.17 8" E INV IN = 704.17 8" E INV OUT = 704.27
107	Proposed Manhole, Type C (AA-S102)	627881.18	1839558.77	713.35	8" W 705.58
108	Proposed Manhole, Type C (AA-S102)	627582.00	1839276.66	713.85	8" W 704.79 8" E INV IN = 704.79 8" E INV OUT = 704.89
109	Proposed Manhole, Type C (AA-S102)	627561.35	1839611.03	715.00	8" W 706.40



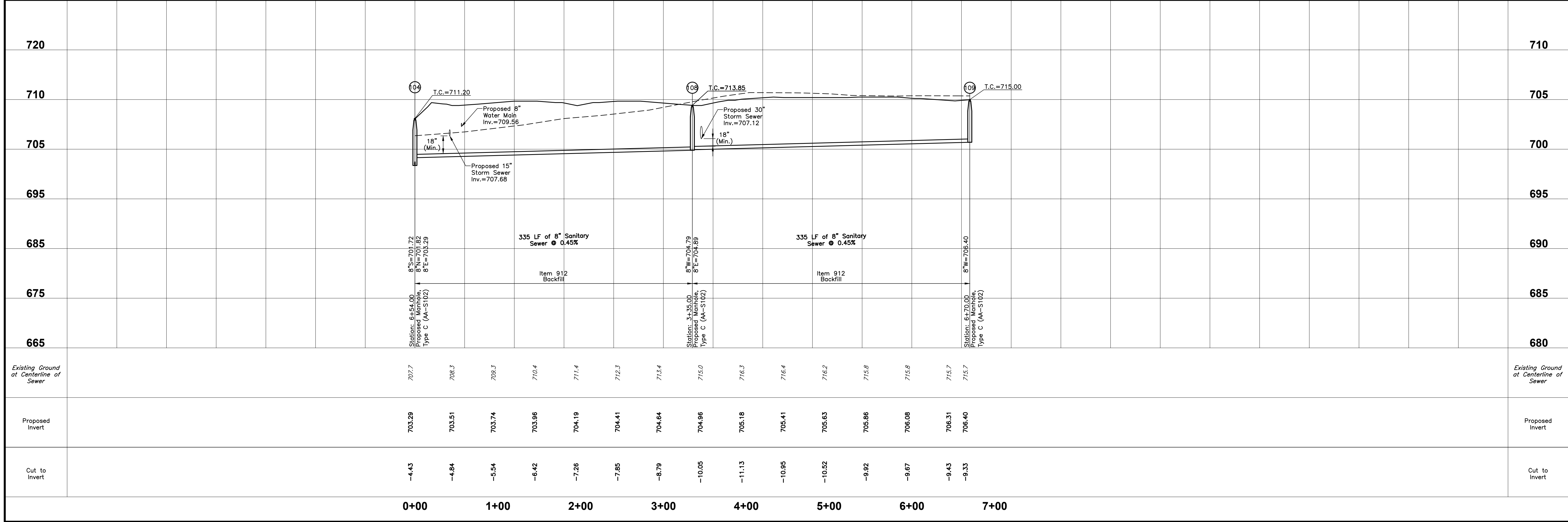
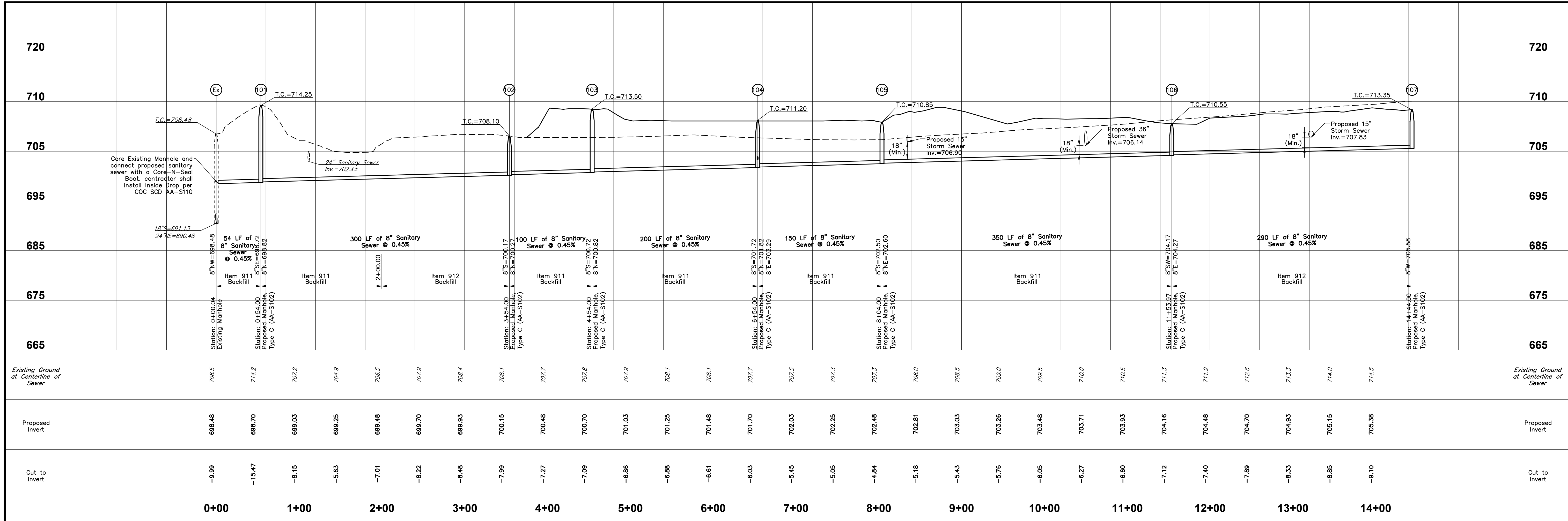
Revisions	Description

VILLAGE OF ASHVILLE, PICKAWAY COUNTY, OHIO  
**THE DISTILLERY**  
 SANITARY SEWER PLAN

**Harral and Stevenson**  
 Civil Engineering and Surveying  
 2869 North Court Street  
 Columbus, Ohio 43215  
 Ph: 740.457.4432  
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Project: E221073  
 Date: Nov. 03, 2022  
 Scale: 1" = 60'  
 Sheet: 3/4



Project:	E221073	Date:	Nov. 03, 2022
	Sheet:		4/4
Scale:		HORIZONTAL SCALE 1" = 50'	
Scale:		VERTICAL SCALE 1" = 10'	

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Cincinnati, Ohio 45311  
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**VILLAGE OF ASHVILLE, PICKAWAY COUNTY, OHIO**  
**THE DISTILLERY**  
SANITARY SEWER PLAN  
SANITARY SEWER PROFILES

Mark	Revisions	Description