ASHTON CROSSING
SECTION 2, PARTS 1 & 2
SANITARY SEWER IMPROVEMENT PLAN
VILLAGE OF ASHVILLE, PICKAWAY COUNTY, OHIO
2017

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 SE 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, SUMPS, 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.

(1) POLYVINYL CHLORIDE (PVC) PLASTIC PIPE: ITEM 720.08 PIPE SHALL CONFORM TO ASTM D-3034 SDR 35 FOR SIZES 6", 8", 10", 12" AND 15". FITTINGS SHALL ALSO CONFORM TO ASTM F-1336.

(2) 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 ALS 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 SDR35, 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 MANDREL 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 CARIOUS 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.

REFERENCES

EXISTING TOPOGRAPHIC INFORMATION IS BASED ON SURVEY PREFORMED BY CIVIL & ENVIRONMENTAL CONSULTANTS, INC IN JANUARY 2017.

ENGINEER/SURVEY

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.
250 OLD WILSON BRIDGE ROAD, SUITE 250
WORTHINGTON, OH 43085
CONTACT: CHAD J. BUCKLEY, P.E.
PHONE: (614) 540-6633

DEVELOPER/OWNER

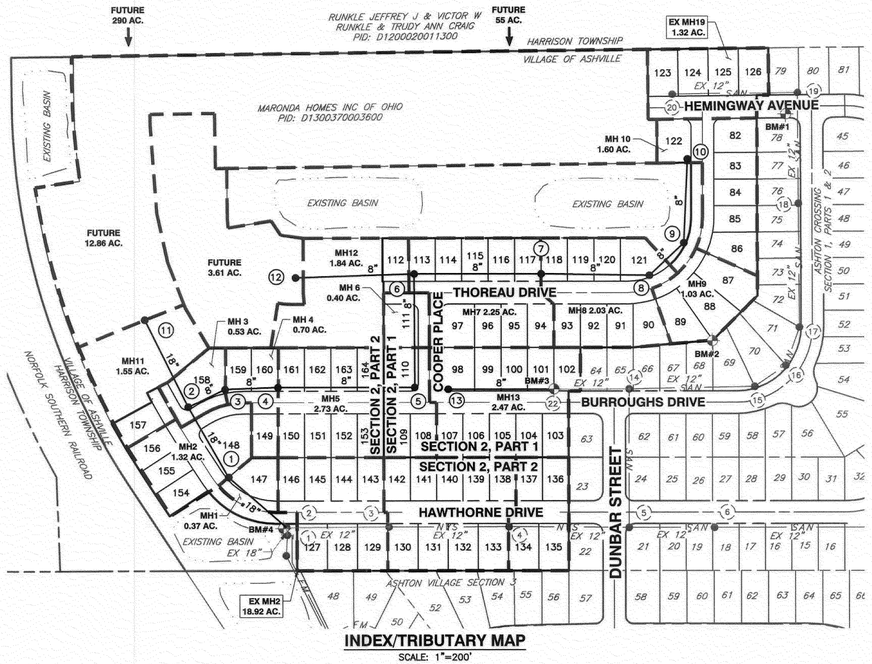
MARONDA HOMES INC. OF OHIO
3966 BROWN PARK DRIVE, SUITE E
HILLIARD, OH 43026
CONTACT: MARK SCHEEL
PHONE: (614) 274-5775 X14
EMAIL: SCHEELMA@MARONDA.COM

STANDARD DRAWINGS	
CITY OF COLUMBUS	
AA-S102	AA-S150
AA-S106	AA-S151
AA-S107	AA-S160
AA-S110	
AA-S111	
AA-S117	
AA-S119	
AA-S149	
THE STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS LISTED ABOVE SHALL BE CONSIDERED A PART OF THESE DRAWINGS.	

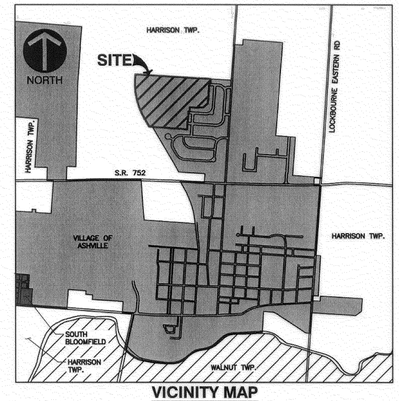
PLAN PREPARED BY:
Civil & Environmental Consultants, Inc.
250 Old Wilson Bridge Road, Suite 250 - Worthington, OH 43085
Ph: 614.540.6633 · 888.598.6808 · Fax: 614.540.6638
www.cecinc.com

Chad J. Buckley — 74383 — 9/15/17
REGISTERED ENGINEER — NUMBER — DATE

NORTH
SCALE IN FEET
0 200 400



INDEX/TRIBUTARY MAP
SCALE: 1"=200'



VICINITY MAP
NOT TO SCALE

DRAWING INDEX	
NUMBER	SHEET TITLE
1	TITLE SHEET
2	PLAN & PROFILE
3	PLAN & PROFILE
4	PLAN & PROFILE

BENCHMARKS

SOURCE BM:

BENCHMARK #1 FROM ASHTON CROSSING SECTION 1, PART 1 & 2 STREET, STORM SEWER, WATER LINE AND SANITARY IMPROVEMENT PLANS. EAST BOLT OF FIRE HYDRANT SOUTH OF ASHTON DRIVE ON THE WEST SIDE OF LONG STREET.
ELEV = 716.50' (NAVD 88)

BM 1:
CHISELED "X" ON NORTH BOLT OF HYDRANT AT SW CORNER OF HEMINGWAY AVENUE AND BURROUGHS DRIVE INTERSECTION.
ELEV = 714.71' (NAVD 88)

BM 2:
CHISELED "X" ON SW CORNER OF CONC RIM OF CATCH BASIN AT THE NE CORNER OF LOT 68 OF ASHTON CROSSING SUBDIVISION SECTION 1, PART 2.
ELEV = 709.80' (NAVD 88)

BM 3:
CHISELED "X" ON THE NORTH RIM OF FIRST SANITARY MANHOLE OF DUNBAR STREET, NORTH SIDE OF BURROUGHS DRIVE.
ELEV = 713.66' (NAVD 88)

BM 4:
CHISELED "X" ON THE NORTH BOLT OF A HYDRANT LOCATED WEST OF DUNBAR STREET, SOUTH SIDE OF HAWTHORNE DRIVE, AND BEING NORTH OF GATED AREA AND EAST OF POND "A" AS SHOWN IN SAID ASHTON CROSSING SECTION 1, PART 1 & 2 STREET, STORM SEWER, WATER LINE AND SANITARY IMPROVEMENT PLANS.
ELEV = 711.56' (NAVD 88)
ELEV = 712.10' (NGVD 29)

SANITARY SEWER ESTIMATE OF QUANTITIES			
ITEM	TOTAL	UNIT	DESCRIPTION
604	13	EA	MANHOLE, TYPE "C", AS PER AA-S102 W/ WRAPIDSEAL MANHOLE ENCAPSULATION SYSTEM OR APPROVED EQUAL
604	1	EA	INSIDE DROP PIPE FOR MANHOLE, AS PER AA-S110
901	2,473	LF	8" SANITARY SEWER PIPE WITH TYPE I BEDDING (PVC, ASTM D-3034, SDR-35, CMS 720.08)
901	675	LF	18" SANITARY SEWER PIPE WITH TYPE I BEDDING (PVC, ASTM D-3034, SDR-35, CMS 720.08)
914	425	LF	6" DIAMETER PIPE RISER
915	71	EA	8"X6" WYE FITTING
918	1879	LF	6" DIAMETER PIPE, SANITARY HOUSE CONNECTION SERVICE
918	1608	LF	6" DIAMETER PIPE, SANITARY HOUSE CONNECTION SERVICE (2 PER TRENCH)

NOTE: THE ENGINEER'S ESTIMATE OF QUANTITIES IS FOR THE DETERMINATION OF REVIEW AND INSPECTION FEES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ACTUAL QUANTITIES NEEDED BASED ON STANDARD CONSTRUCTION PROCEDURES AND THE INTENT OF THESE PLANS.

OHIO Utilities Protection SERVICE
Call Before You Dig
800-362-2764 or 8-1-1
www.oups.org

APPROVALS

SIGNATURES BELOW SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN.

SERVICE DEPARTMENT, SUPERVISOR — DATE 20 Sept 2017

VILLAGE ENGINEER, VILLAGE OF ASHVILLE — E-Mail — DATE 18 Sept 2017

MAYOR, VILLAGE OF ASHVILLE — DATE 05 OCT 17

VILLAGE ADMINISTRATOR, VILLAGE OF ASHVILLE — DATE 10/2/2017

REVISION RECORD			
NO	DESCRIPTION	APPROVAL	DATE
1	ADDED PARKING SPOTS, SHEETS: 1 & 3	CMT	27Apr18
	RECORD DRAWING: SECTION 1 PART 1 ONLY - OCTOBER 2018		

Civil & Environmental Consultants, Inc.
250 Old Wilson Bridge Road · Suite 250 · Worthington, OH 43085
614-540-6633 · 888-598-6808
www.cecinc.com

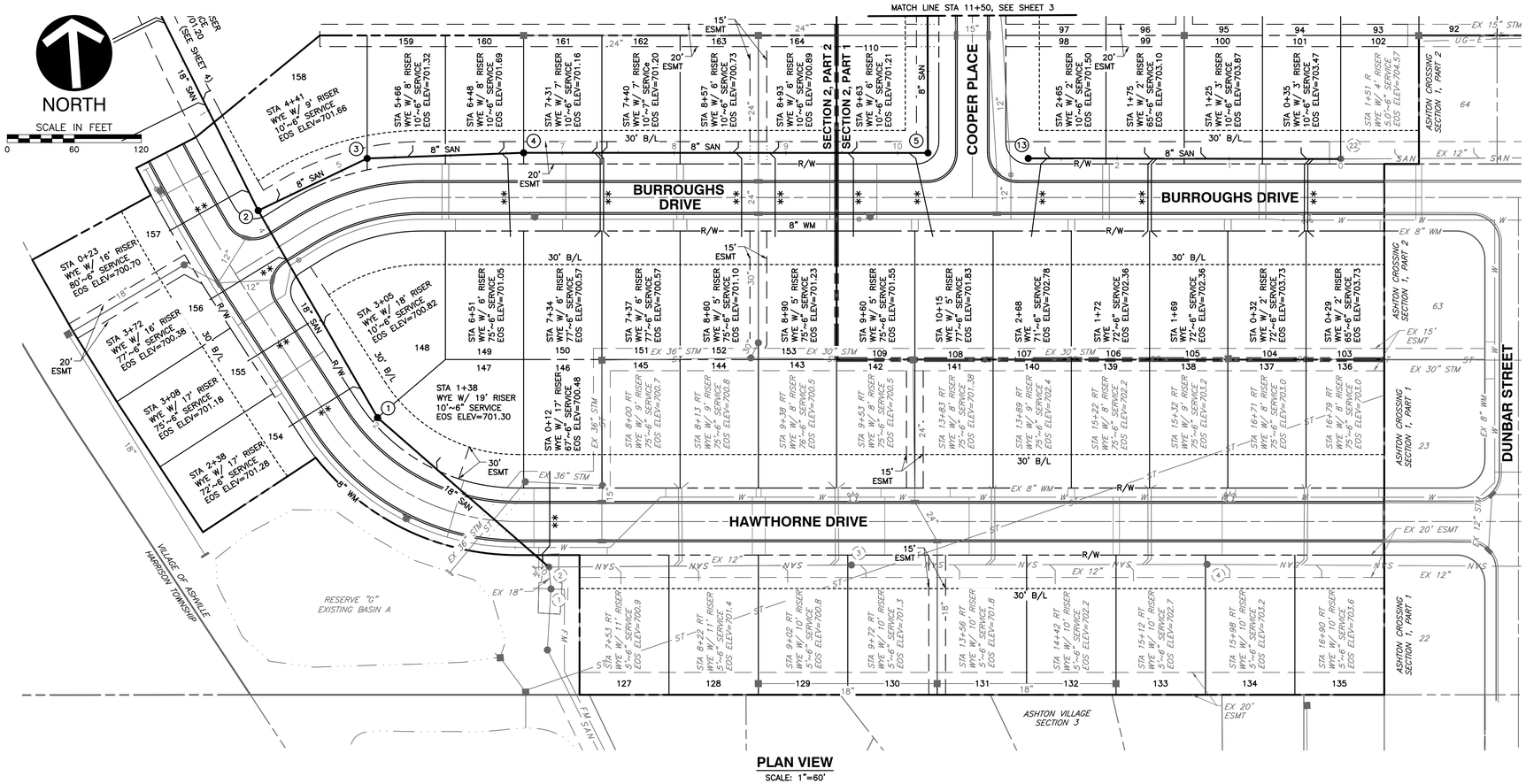
ASHTON CROSSING
SECTION 2, PART 1 & 2
VILLAGE OF ASHVILLE, OHIO

TITLE SHEET

DATE: FEBRUARY 2017 | DRAWN BY: MGS
DWG SCALE: AS NOTED | CHECKED BY: CJB
PROJECT NO: 164-591 | APPROVED BY: CLL

DRAWING NO.: C000
SHEET 1 OF 4

P:\2016\164-591\-CAD\Dwg\C002 Sanitary Plan\164591-C002_TitleSheet.dwg[LAYOUT1] LS[9/14/2017 - mgsmith] - LP: 9/14/2017 3:31 PM



PLAN VIEW
SCALE: 1"=60'

PART 1

EX2-10 PROFILE
SCALE H: 1"=60'; V: 1"=10'

PART 1

EX22-12 PROFILE
SCALE H: 1"=60'; V: 1"=10'

PART 1

NOTES

1. LENGTH OF RISER REPRESENTS DISTANCE FROM THE INVERT OF THE MAINLINE SEWER TO THE TOP OF THE RISER.
2. LENGTH OF SANITARY HOUSE CONNECTION SERVICE REPRESENTS 2D DISTANCE BETWEEN END OF SERVICE AND MAINLINE SEWER.
3. SERVICES TO BE CONSTRUCTED TO NOT CONFLICT WITH PROPOSED STORM SEWER AND WATER MAIN. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM 1.5' VERTICAL CLEARANCE BETWEEN THE 6" SANITARY SEWER SERVICES AND ALL UTILITY CROSSINGS WHILE MAINTAINING A MINIMUM 2.08% GRADE FOR THE SANITARY SERVICES UNLESS OTHERWISE NOTED.

   DOUBLE LATERALS. SEE DETAIL SHOWN ON SHEET 4.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
5. ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
6. ALL EXISTING INFORMATION IS PER AS-BUILT UNLESS OTHERWISE NOTED.
7. 1.5' MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.

* COMPACTED NATIVE BACKFILL PER ITEM 911.

** COMPACTED GRANULAR BACKFILL COMPACTED TO 98% MAXIMUM DRY DENSITY IN ACCORDANCE W/ CMSC ITEM 912 OR GEOTECHNICAL ENGINEER APPROVED EQUAL.

ALL SANITARY SEWER PIPE AND SERVICES EXCEPT AS NOTED SHALL BE PVC GRAVITY SEWER PIPE ASTM D-3034 (SDR-35), JOINTS SHALL CONFORM TO ASTM D-3212.

LEGEND

- EXISTING RIGHT-OF-WAY
- EXISTING UNPAVED DRIVEWAY
- EXISTING ROADWAY
- EXISTING CENTERLINE
- EXISTING STORM SEWER
- EXISTING SANITARY
- EXISTING WATER
- EXISTING SANITARY MANHOLE
- EXISTING STORM STRUCTURES
- EXISTING FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY SERVICE
- PROPOSED SANITARY MANHOLE
- PROPOSED WATER
- PROPOSED WATER SERVICE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED PROJECT BOUNDARY
- PROPOSED CENTERLINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED EDGE OF PAVEMENT
- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- PROPOSED CATCH BASIN
- PROPOSED STORM MANHOLE

REVISION RECORD

NO	DESCRIPTION	APPROVAL	DATE
	RECORD DRAWING: SECTION 1 PART 1 ONLY		
	OCTOBER 2018		

Civil & Environmental Consultants, Inc.
250 Old Wilson Bridge Road · Suite 250 · Worthington, OH 43085
614-540-6633 · 888-598-6808
www.cecinc.com

ASHTON CROSSING SECTION 2, PART 1 & 2 VILLAGE OF ASHVILLE, OHIO

PLAN & PROFILE

DATE:	FEBRUARY 2017
DRAWN BY:	MGS
DWG SCALE:	AS NOTED
CHECKED BY:	CJB
PROJECT NO:	164-591
APPROVED BY:	DRAFT

DRAWING NO.: **C600**

SHEET 2 OF 4

P:\2016\164-591\~Survey\Dwg\Addfull\164591-C600_Plan & Prof#e58.dwg[LAYOUT1 LS(10/23/2018 - dcox) - LP: 11/2/2018 10:50 AM

NORTH

SCALE IN FEET

0 60 120

NOTES

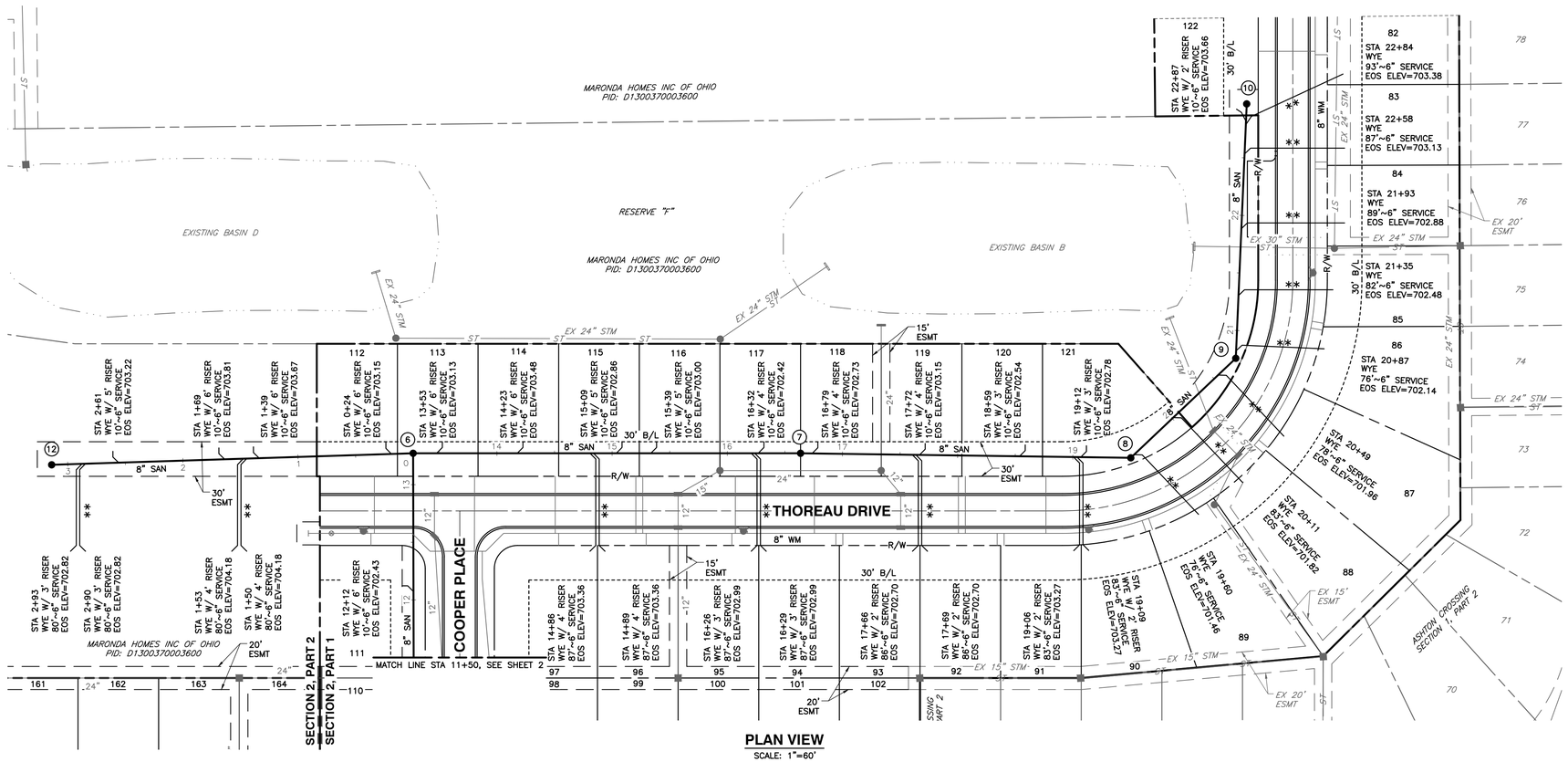
1. LENGTH OF RISER REPRESENTS DISTANCE FROM THE INVERT OF THE MAINLINE SEWER TO THE TOP OF THE RISER.
2. LENGTH OF SANITARY HOUSE CONNECTION SERVICE REPRESENTS 2D DISTANCE BETWEEN END OF SERVICE AND MAINLINE SEWER.
3. SERVICES TO BE CONSTRUCTED TO NOT CONFLICT WITH PROPOSED STORM SEWER AND WATER MAIN. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM 1.5' VERTICAL CLEARANCE BETWEEN THE 6" SANITARY SEWER SERVICES AND ALL UTILITY CROSSINGS WHILE MAINTAINING A MINIMUM 2.08% GRADE FOR THE SANITARY SERVICES UNLESS OTHERWISE NOTED.

   DOUBLE LATERALS. SEE DETAIL SHOWN ON SHEET 4.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
5. ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
6. ALL EXISTING INFORMATION IS PER AS-BUILT UNLESS OTHERWISE NOTED.
7. 1.5' MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.

* COMPACTED NATIVE BACKFILL PER ITEM 911.

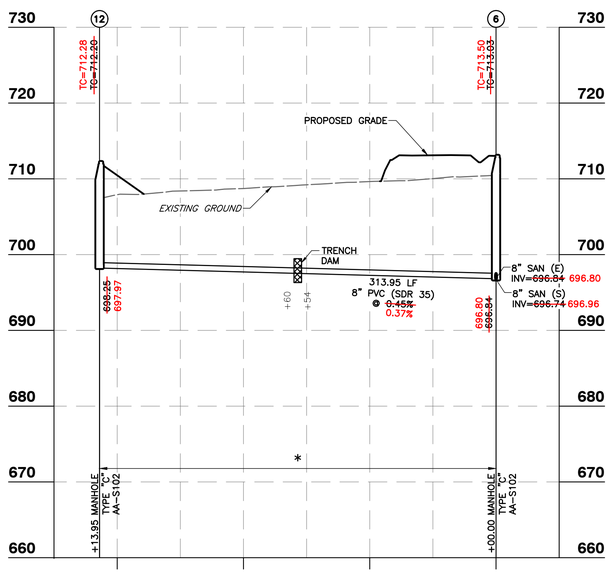
** COMPACTED GRANULAR BACKFILL COMPACTED TO 98% MAXIMUM DRY DENSITY IN ACCORDANCE W/ CMSC ITEM 912 OR GEOTECHNICAL ENGINEER APPROVED EQUAL.

ALL SANITARY SEWER PIPE AND SERVICES EXCEPT AS NOTED SHALL BE PVC GRAVITY SEWER PIPE ASTM D-3034 (SDR-35). JOINTS SHALL CONFORM TO ASTM D-3212.



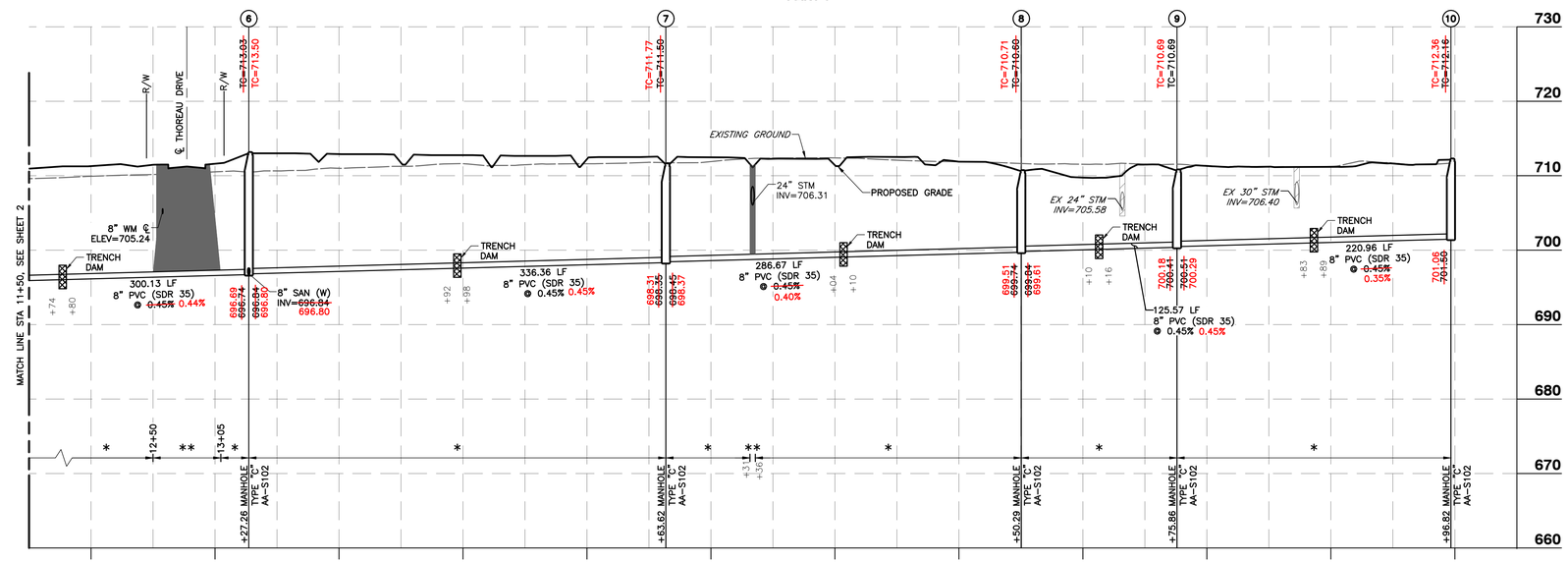
PLAN VIEW

SCALE: 1"=60'



6-11 PROFILE

SCALE H: 1"=60'; V: 1"=10'



EX2-10 PROFILE

SCALE H: 1"=60'; V: 1"=10'

LEGEND

- EXISTING RIGHT-OF-WAY
- EXISTING UNPAVED DRIVEWAY
- EXISTING ROADWAY
- EXISTING CENTERLINE
- EXISTING STORM SEWER
- EXISTING SANITARY
- EXISTING WATER
- EXISTING SANITARY MANHOLE
- EXISTING STORM STRUCTURES
- EXISTING FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY SERVICE
- PROPOSED SANITARY MANHOLE
- PROPOSED WATER
- PROPOSED WATER SERVICE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED PROJECT BOUNDARY
- PROPOSED CENTERLINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED EDGE OF PAVEMENT
- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- PROPOSED CATCH BASIN
- PROPOSED STORM MANHOLE

REVISION RECORD

NO	DESCRIPTION	APPROVAL	DATE
	RECORD DRAWING - SECTION 1, PART 1 ONLY		
	OCTOBER 2018		

CEC

Civil & Environmental Consultants, Inc.
250 Old Wilson Bridge Road · Suite 250 · Worthington, OH 43085
614-540-6633 · 888-598-6808
www.cecinc.com

ASHTON CROSSING SECTION 2, PART 1 & 2 VILLAGE OF ASHVILLE, OHIO

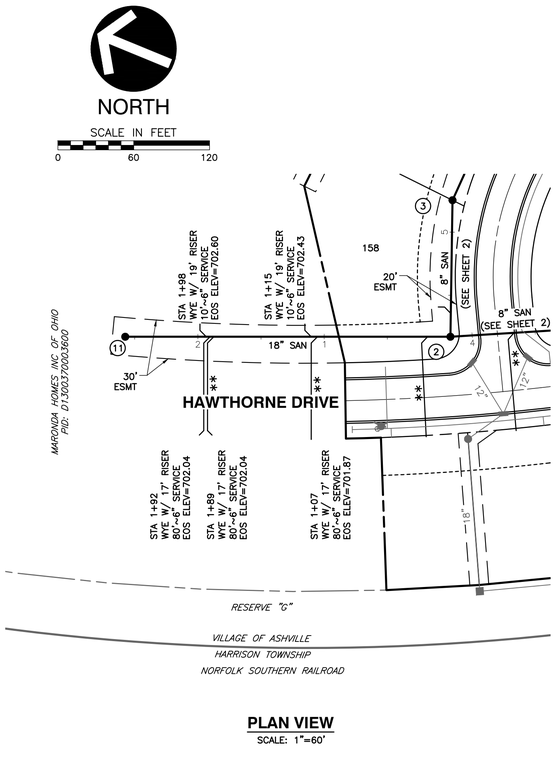
PLAN & PROFILE

DATE:	FEBRUARY 2017
DWG SCALE:	AS NOTED
PROJECT NO:	164-591
DRAWN BY:	MGS
CHECKED BY:	CJB
APPROVED BY:	DRAFT

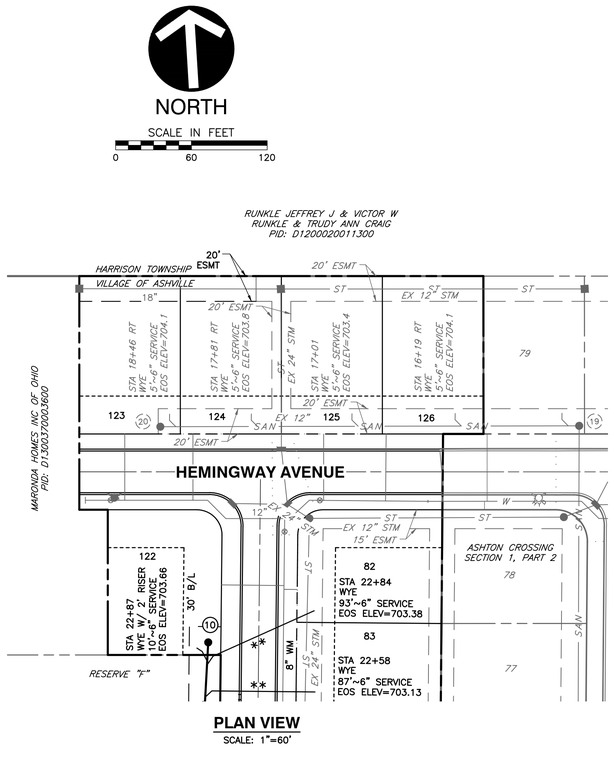
DRAWING NO.: **C601**

SHEET 3 OF 4

P:\2016\164-5911-Survey\Dwg\AsBuilt\164591-C600_Plan & Profile458.dwg[LAYOUT2] LST:10/23/2018 - dcox - LP: 11/2/2018 10:51 AM



PLAN VIEW
SCALE: 1"=60'



PLAN VIEW
SCALE: 1"=60'

NOTES

1. LENGTH OF RISER REPRESENTS DISTANCE FROM THE INVERT OF THE MAINLINE SEWER TO THE TOP OF THE RISER.
2. LENGTH OF SANITARY HOUSE CONNECTION SERVICE REPRESENTS 2D DISTANCE BETWEEN END OF SERVICE AND MAINLINE SEWER.
3. SERVICES TO BE CONSTRUCTED TO NOT CONFLICT WITH PROPOSED STORM SEWER AND WATER MAIN. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A MINIMUM 1.5' VERTICAL CLEARANCE BETWEEN THE 6" SANITARY SEWER SERVICES AND ALL UTILITY CROSSINGS WHILE MAINTAINING A MINIMUM 2.08% GRADE FOR THE SANITARY SERVICES UNLESS OTHERWISE NOTED.

   DOUBLE LATERALS. SEE DETAIL SHOWN ON THIS SHEET.
4. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING ELEVATIONS AND INVERTS PRIOR TO START OF CONSTRUCTION.
5. ALL ELEVATIONS SHOWN ON THIS PLAN ARE NAVD 88.
6. ALL EXISTING INFORMATION IS PER AS-BUILT UNLESS OTHERWISE NOTED.
7. 1.5' MINIMUM VERTICAL CLEARANCE SHALL BE MAINTAINED BETWEEN ALL STORM, SANITARY AND WATER LINES.

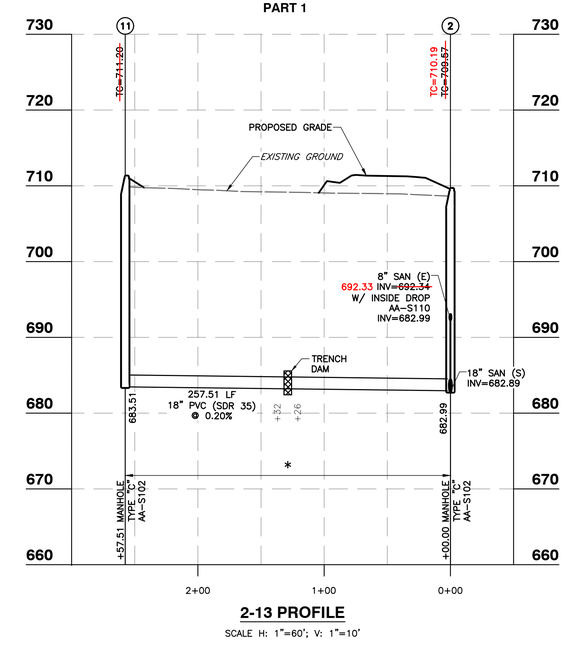
* COMPACTED NATIVE BACKFILL PER ITEM 911.

** COMPACTED GRANULAR BACKFILL COMPACTED TO 98% MAXIMUM DRY DENSITY IN ACCORDANCE W/ CMSC ITEM 912 OR GEOTECHNICAL ENGINEER APPROVED EQUAL.

ALL SANITARY SEWER PIPE AND SERVICES EXCEPT AS NOTED SHALL BE PVC GRAVITY SEWER PIPE ASTM D-3034 (SDR-35). JOINTS SHALL CONFORM TO ASTM D-3212.

LEGEND

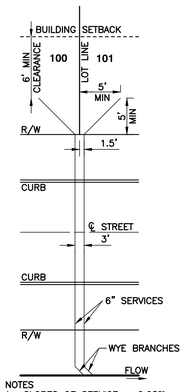
- EXISTING RIGHT-OF-WAY
- EXISTING UNPAVED DRIVEWAY
- EXISTING ROADWAY
- EXISTING CENTERLINE
- ST — EXISTING STORM SEWER
- SAN — EXISTING SANITARY
- W — EXISTING WATER
- EXISTING SANITARY MANHOLE
- EXISTING STORM STRUCTURES
- EXISTING FIRE HYDRANT
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY SERVICE
- PROPOSED SANITARY MANHOLE
- PROPOSED WATER
- PROPOSED WATER SERVICE
- PROPOSED WATER VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED PROJECT BOUNDARY
- PROPOSED CENTERLINE
- PROPOSED RIGHT-OF-WAY
- PROPOSED EDGE OF PAVEMENT
- PROPOSED STORM SEWER
- PROPOSED CURB INLET
- PROPOSED CATCH BASIN
- PROPOSED STORM MANHOLE



2-13 PROFILE
SCALE H: 1"=60'; V: 1"=10'

SANITARY SEWER TABLE

	PLAN				AS-BUILT	
MH	NORTHING	EASTING	BEARING	DISTANCE	NORTHING	EASTING
EX2					*629763.93*	*1839344.98*
			S 44° 48' 13" E	203.34		
1	629908.21	1839201.69			629908.48	1839200.41
			S 25° 52' 36" E	213.87		
2	630100.63	1839108.35			630103.18	1839106.93
			S 68° 30' 12" W	108.10		
3	630140.24	1839208.92			630141.95	1839210.43
			N 87° 58' 48" W	140.09		
4	630135.30	1839348.93			630136.48	1839352.72
			N 85° 53' 34" W	361.73		
5	630109.40	1839709.73			630109.11	1839711.62
			S 03° 56' 19" W	300.13		
6	630408.82	1839730.34			630410.16	1839730.47
			N 85° 54' 50" W	336.36		
7	630384.85	1840065.85			630385.31	1840066.98
			N 85° 07' 18" W	286.67		
8	630360.48	1840351.48			630359.45	1840353.34
			S 50° 38' 51" W	125.57		
9	630440.10	1840448.57			630440.05	1840449.35
			S 06° 32' 56" W	220.96		
10	630659.62	1840473.78			630660.78	1840474.70
2	630100.63	1839108.35			630103.18	1839106.93
			S 22° 22' 21" E	257.51		
11	630338.75	1839010.33			–	–
6	630408.82	1839730.34			630410.16	1839730.47
			S 87° 44' 21" E	313.95		
12	630421.21	1839416.63			630421.24	1839415.86
EX22					*630077.68*	*1840077.70*
			S 85° 48' 01" E	279.58		
13	630098.15	1839798.87			630098.51	1839797.90



NOTES
1. SLOPES OF SERVICE = 2.08% (TYP) UNLESS OTHERWISE NOTED.
2. PROVIDE BEND AT PROPERTY CORNER (AS SHOWN) AND EXTEND SERVICE A MINIMUM 5 FEET INTO LOT BEING SERVED. (TYPICAL BOTH SIDES).
3. WHERE SERVICES CROSS STORM SEWER, EXTEND SERVICE A MINIMUM 5 FEET BEYOND STORM SEWER.
4. SERVICES WITHIN THE R/W MUST UTILIZE ITEM 912 BACKFILL.

DOUBLE LATERAL DETAIL
NOT TO SCALE

REVISION RECORD

NO	DESCRIPTION	APPROVAL	DATE
	RECORD DRAWING: SECTION 1 PART 1 ONLY		
	OCTOBER 2018		

Civil & Environmental Consultants, Inc.
250 Old Wilson Bridge Road · Suite 250 · Worthington, OH 43085
614-540-6633 · 888-598-6808
www.cecinc.com

ASHTON CROSSING SECTION 2, PART 1 & 2 VILLAGE OF ASHVILLE, OHIO

PLAN & PROFILE

DATE:	FEBRUARY 2017
DWG SCALE:	AS NOTED
PROJECT NO:	164-591
APPROVED BY:	DRAFT
DRAWN BY:	MGS
CHECKED BY:	CJB

DRAWING NO.: **C602**
SHEET 4 OF 4

P:\2016\164-591_Survey\Dwg\AsBuilt\164591-C600_Plan & Profile638.dwg[LAYOUT3] LS(10/23/2018 - dcox) - LP: 11/2/2018 10:51 AM