CLERMONT COUNTY WATER RESOURCES DEPARTMENT
CLERMONT COUNTY, OHIO

VILLAGE OF NEWTONSVILLE
PART A - WASTEWATER TREATMENT PLANT (PROJECT No. 6402-60117) & PART B - COLLECTION SYSTEM ASSESSMENT (PROJECT No. 6402-60116)
2016

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COUNT DRAWING NUMBER DRAWINGS TITLE

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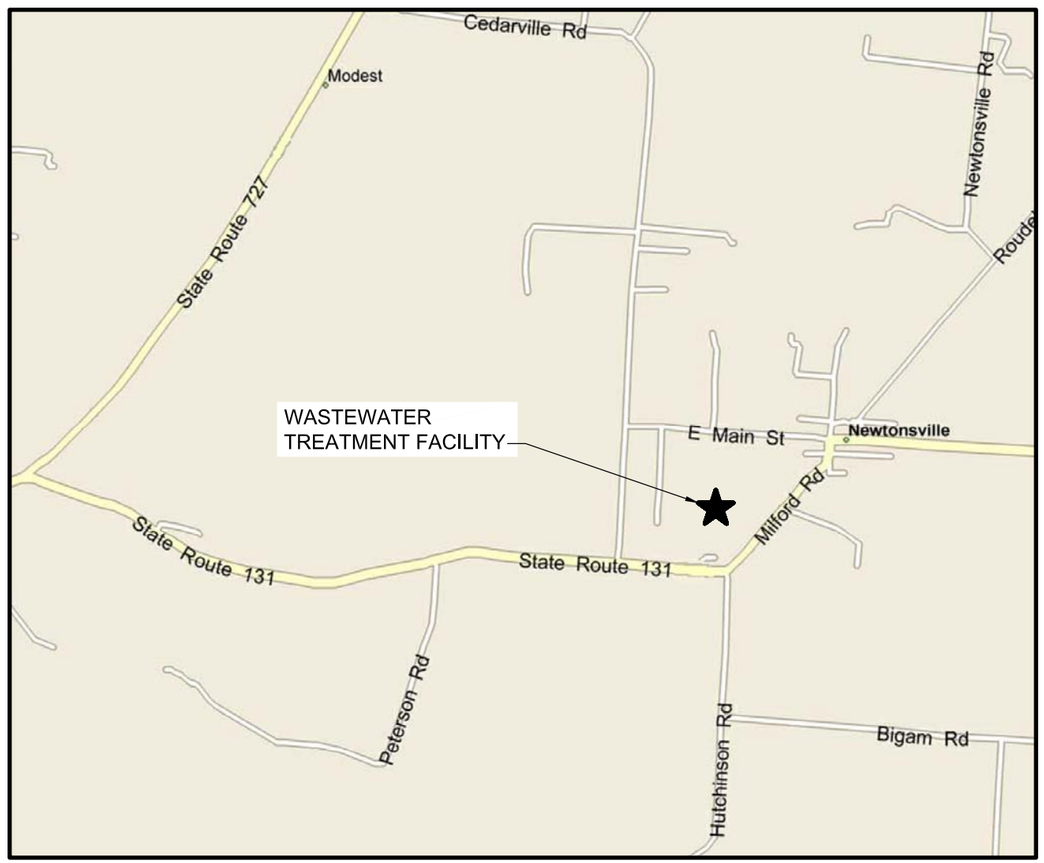

LOCATION MAP

N

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COUNT DRAWING NUMBER DRAWINGS TITLE

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Clermont County

BOARD OF COMMISSIONERS
ROBERT L. PROUD
EDWIN H. HUMPHREY
DAVID H. UIBLE

COUNTY ADMINSTRATOR
STEPHEN RABOLT

CLERMONT COUNTY DIRECTOR OF UTILITIES
LYLE G. BLOOM, P.E.

CH2MHILL PROFESSIONAL ENGINEER DATE

CH2MHILL PROFESSIONAL ENGINEER DATE

CH2MHILL PROFESSIONAL ENGINEER DATE

NO.	DATE	REVISION	BY	APVD

DSGN A SMITH | DR J. BRADLEY | CHK J GAGNON | APVD A SMITH

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VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART A AND B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

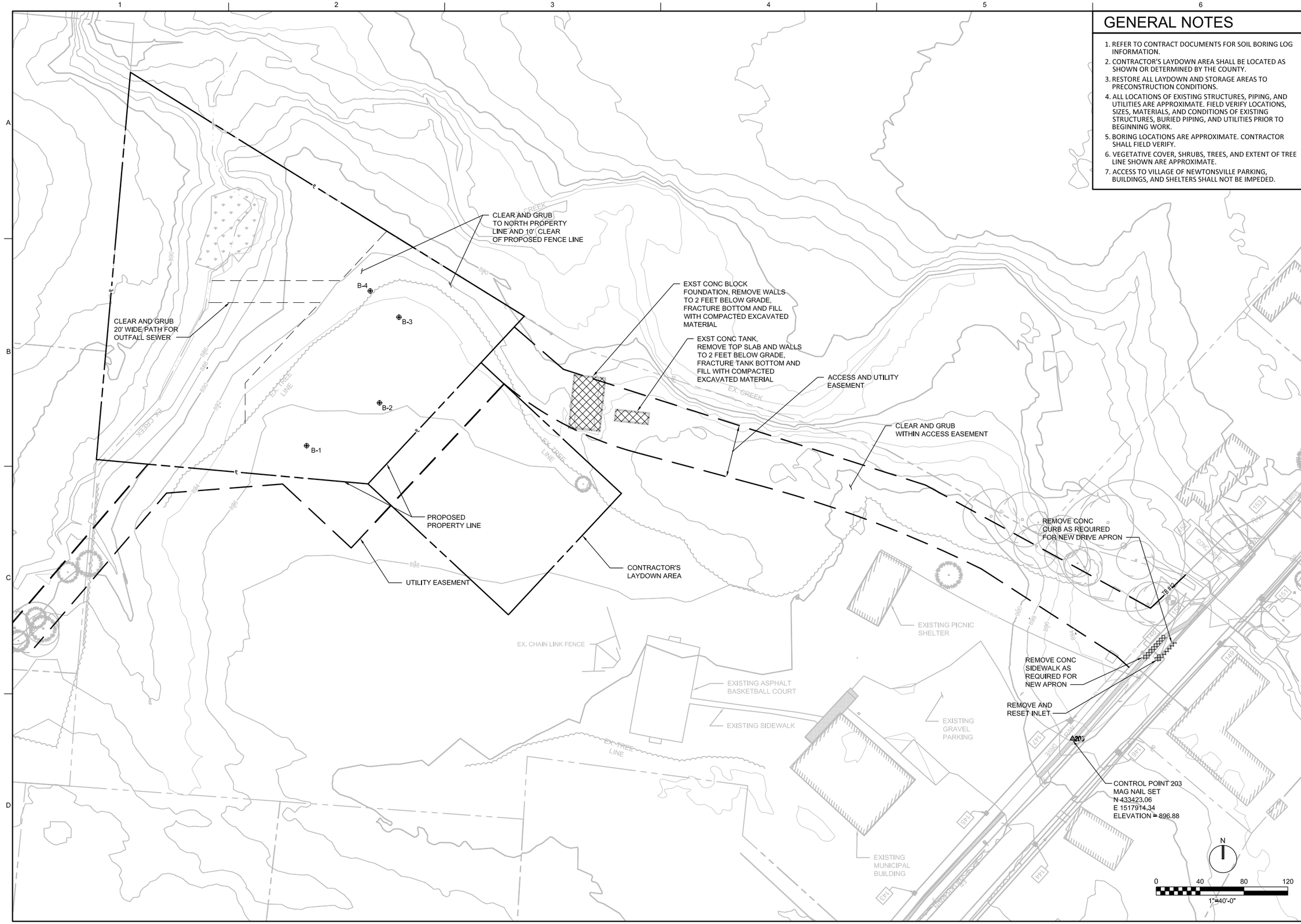
GENERAL
TITLE SHEET, INDEX OF DRAWINGS AND LOCATION PLAN

NTS
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-08-26
PROJ	652379
DWG	G-001
SHEET	1 of 91

GENERAL NOTES

1. REFER TO CONTRACT DOCUMENTS FOR SOIL BORING LOG INFORMATION.
2. CONTRACTOR'S LAYDOWN AREA SHALL BE LOCATED AS SHOWN OR DETERMINED BY THE COUNTY.
3. RESTORE ALL LAYDOWN AND STORAGE AREAS TO PRECONSTRUCTION CONDITIONS.
4. ALL LOCATIONS OF EXISTING STRUCTURES, PIPING, AND UTILITIES ARE APPROXIMATE. FIELD VERIFY LOCATIONS, SIZES, MATERIALS, AND CONDITIONS OF EXISTING STRUCTURES, BURIED PIPING, AND UTILITIES PRIOR TO BEGINNING WORK.
5. BORING LOCATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY.
6. VEGETATIVE COVER, SHRUBS, TREES, AND EXTENT OF TREE LINE SHOWN ARE APPROXIMATE.
7. ACCESS TO VILLAGE OF NEWTONSVILLE PARKING, BUILDINGS, AND SHELTERS SHALL NOT BE IMPEDED.



NO.	DATE	DR	REVISION	CHK	APVD	BY	APVD
		A SMITH	D CORBETT	J GAGNON			A SMITH

DSGN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART A
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CIVIL

EXISTING SITE PLAN

1"=40'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-08-26
PROJ	665163
DWG	C-002
SHEET	4 of 91

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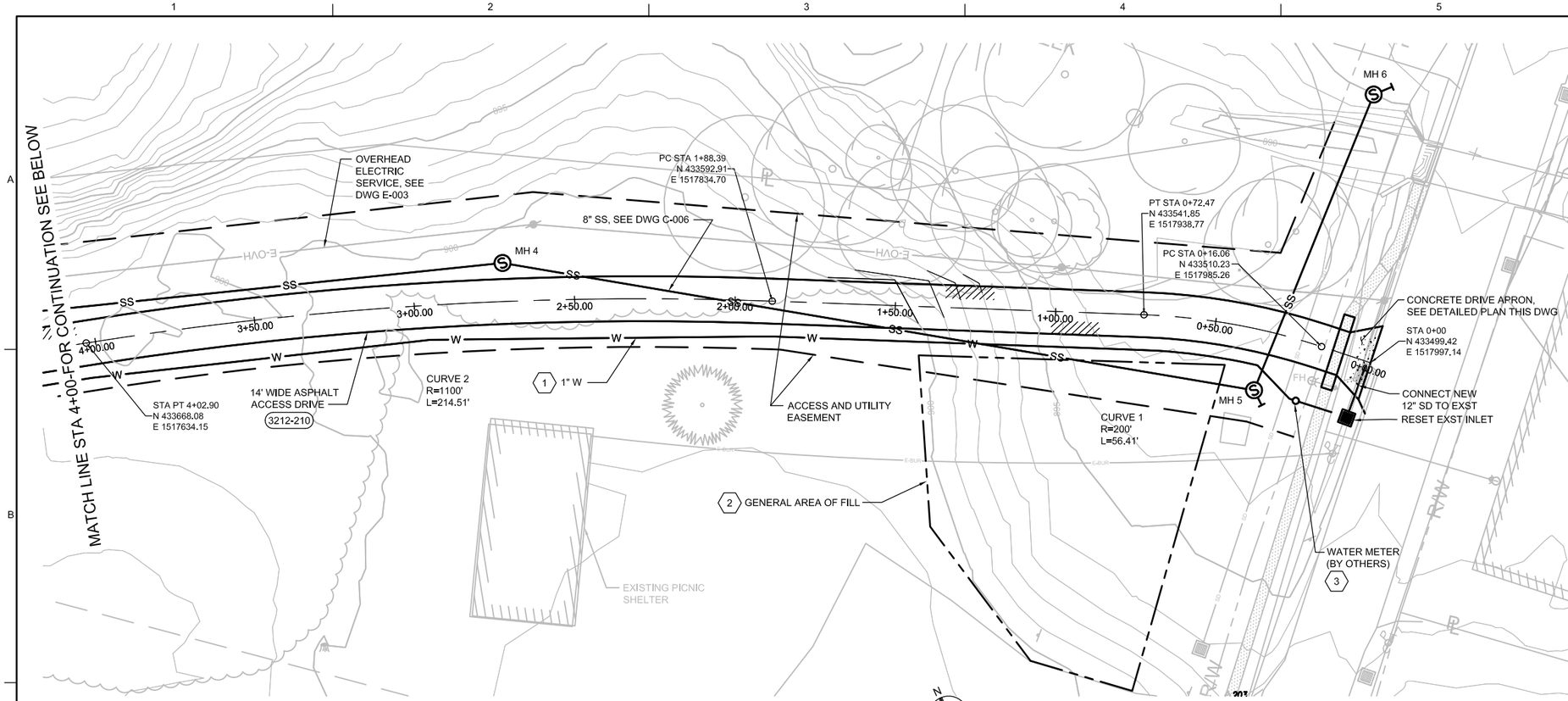
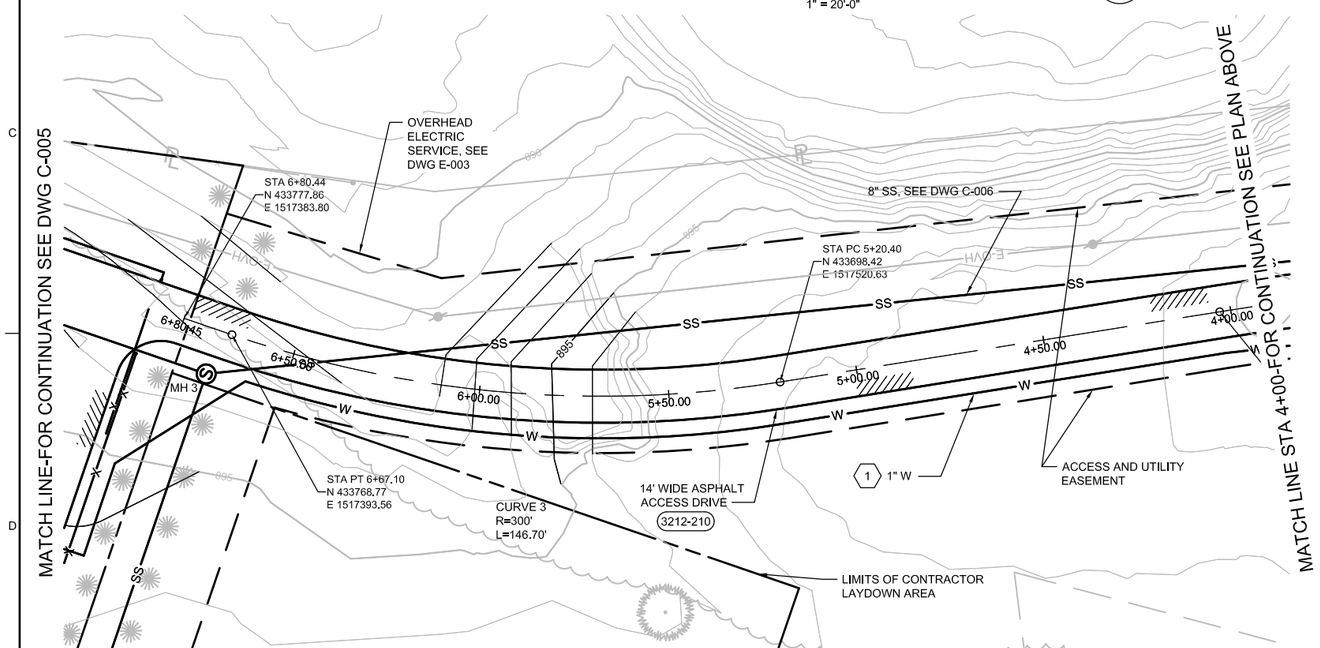


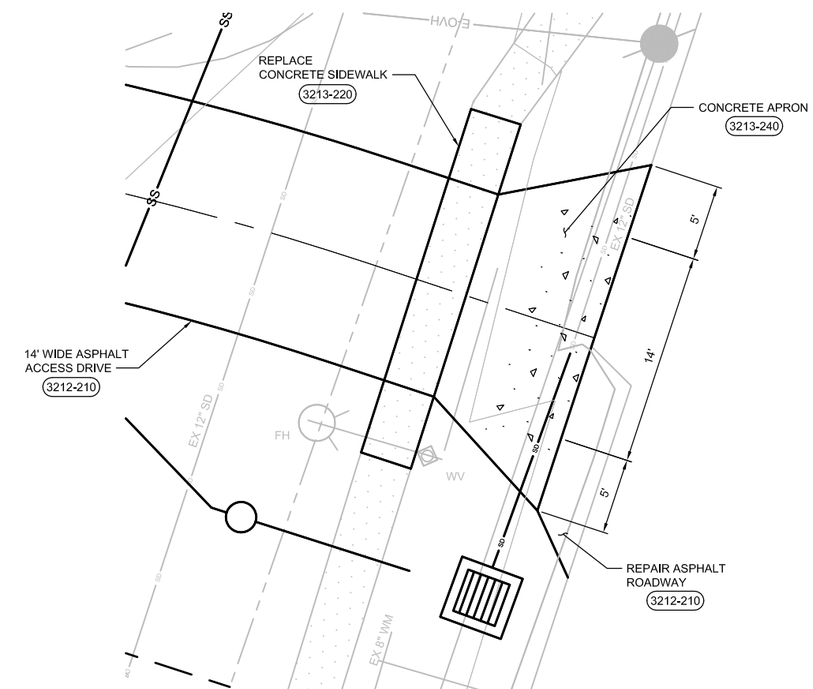
ACCESS DRIVE PLAN

1" = 20'-0"



ACCESS DRIVE PLAN

1" = 20'-0"



DRIVE APRON DETAIL

1" = 5'-0"

0 20 40 60
1"=20'-0"

0 5 10 15
1"=5'-0"

GENERAL SHEET NOTES

1. FINAL GRADE AND SEED ALL DISTRUBED AREAS PER SPECIFICATIONS.

SHEET KEYNOTES

1. NEW POTABLE WATER LINE SHALL BE 3'-6" MINIMUM BELOW FINISHED GRADE.
2. CONTRACTOR SHALL PLACE SURPLUS EXCAVATED MATERIAL WITHIN THE AREA SHOWN NORTH OF THE EXISTING GRAVEL PARKING LOT. THE FILL AREA SHALL BE RAISED NO HIGHER THAN NECESSARY TO MATCH GRAVEL SURFACE AND GRADED TO MAINTAIN SLOPE FROM SOUTHWEST TO NORTHEAST STOPPING PRIOR TO REACHING THE PROPOSED ACCESS DRIVE. COORDINATE WITH THE COUNTY'S ON SITE REPRESENTATIVE.
3. COUNTY SHALL PROVIDE WATER MAIN TAP, WATER SERVICE FROM MAIN TO METER, METER, AND SERVICE LINE 3'-0" PAST THE METER. CONNECT 1" W TO SERVICE LINE AND COORDINATE WITH THE COUNTY.

NO.	DATE	REVISION	BY	APVD

DSGN A SMITH | DR A SMITH | CHK D CORBETT | APVD J GAGNON | APVD A SMITH

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART A
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CIVIL
ROADWAY PLAN 1

VARIES
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-08-26
PROJ	665163
DWG	C-004
SHEET	6 of 91

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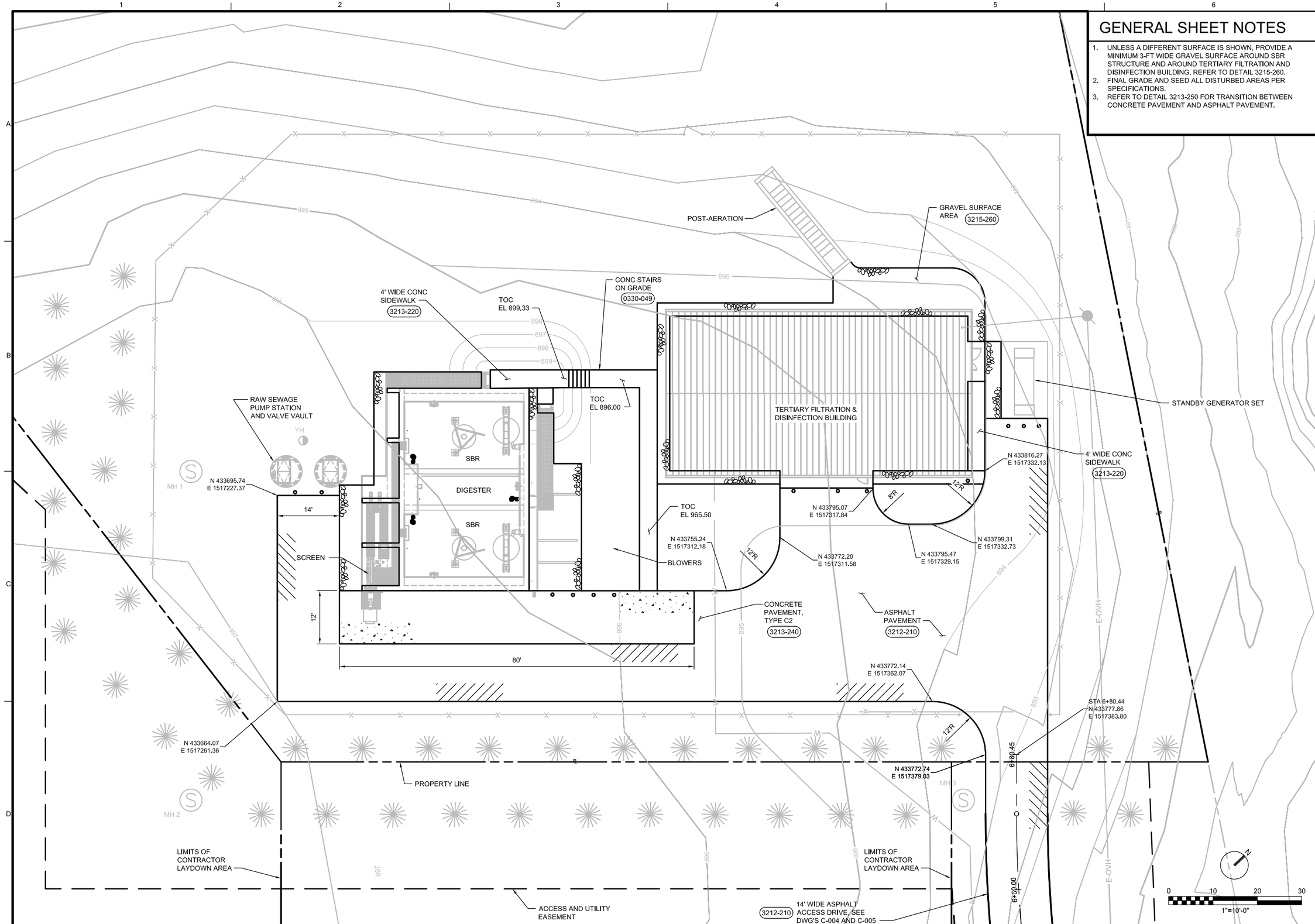
GENERAL SHEET NOTES

1. UNLESS A DIFFERENT SURFACE IS SHOWN, PROVIDE A MINIMUM 3-FT WIDE GRAVEL SURFACE AROUND SBR STRUCTURE AND AROUND TERTIARY FILTRATION AND DISINFECTION BUILDING. REFER TO DETAIL 3215-260.
2. FINAL GRADE AND SEED ALL DISTURBED AREAS PER SPECIFICATIONS.
3. REFER TO DETAIL 3213-250 FOR TRANSITION BETWEEN CONCRETE PAVEMENT AND ASPHALT PAVEMENT.



NO.	DATE	DR	REVISION	CHK	APVD	BY	APVD
DSGN	A SMITH	D CORBETT		J GAGNON		A SMITH	

Clermont County

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART A
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

ch2m

CIVIL

ROADWAY PLAN 2

1"=10'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-08-26
PROJ	665163
DWG	C-005
SHEET	7 of 91

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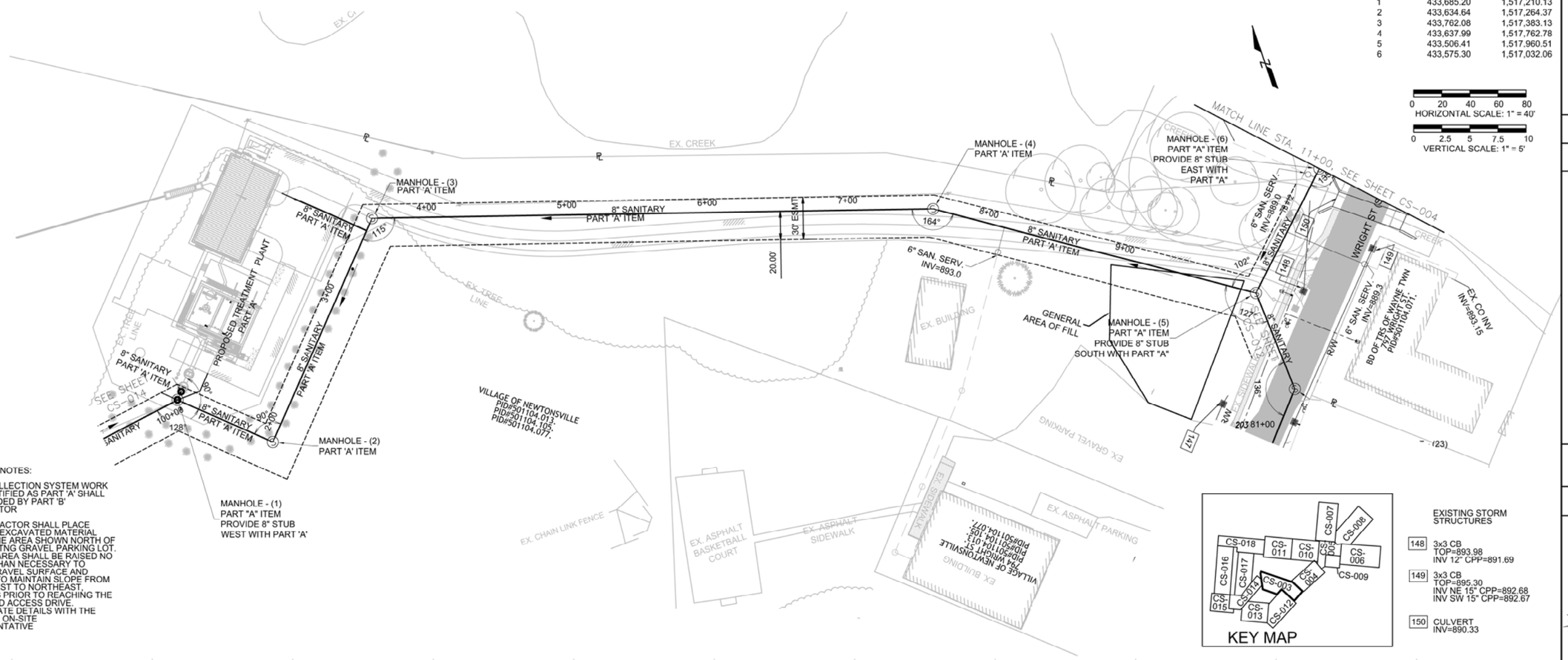
MANHOLE	NORTHING	EASTING
1	433,685.20	1,517,210.13
2	433,634.64	1,517,264.37
3	433,762.08	1,517,383.13
4	433,637.99	1,517,762.78
5	433,506.41	1,517,960.51
6	433,575.30	1,517,032.06



GENERAL NOTES:

1) ALL COLLECTION SYSTEM WORK NOT IDENTIFIED AS PART 'A' SHALL BE PROVIDED BY PART 'B' CONTRACTOR

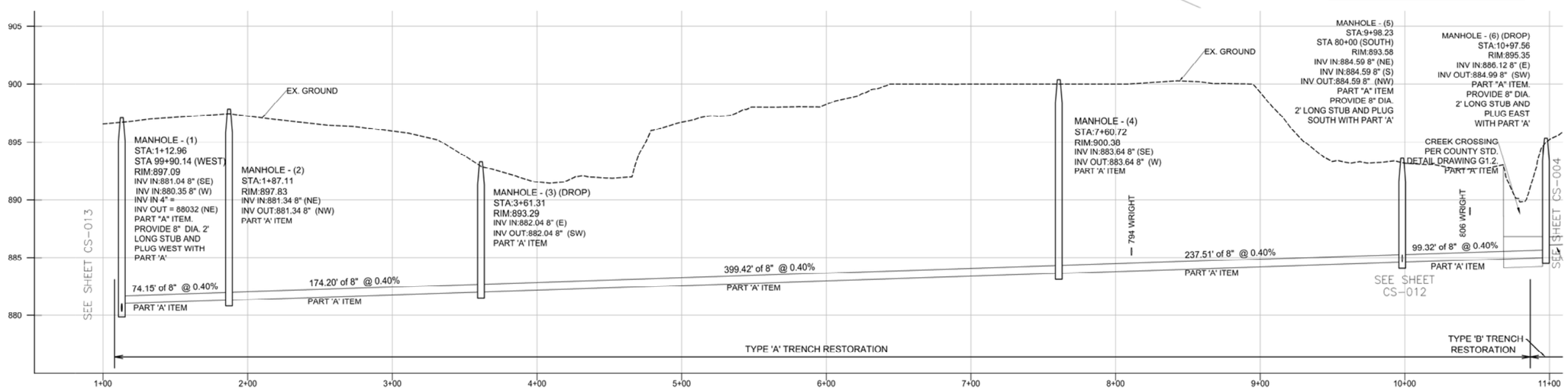
2) CONTRACTOR SHALL PLACE SURPLUS EXCAVATED MATERIAL WITHIN THE AREA SHOWN NORTH OF THE EXISITNG GRAVEL PARKING LOT. THE FILL AREA SHALL BE RAISED NO HIGHER THAN NECESSARY TO MATCH GRAVEL SURFACE AND GRADED TO MAINTAIN SLOPE FROM SOUTHWEST TO NORTHEAST, STOPPING PRIOR TO REACHING THE PROPOSED ACCESS DRIVE. COORDINATE DETAILS WITH THE COUNTY'S ON-SITE REPRESENTATIVE

EXISTING STORM STRUCTURES

148 3x3 CB TOP=893.98 INV 12" CPP=891.69

149 3x3 CB TOP=895.30 INV NE 15" CPP=892.68 INV SW 15" CPP=892.67

150 CULVERT INV=890.33



NO.	DATE	REVISION	BY	APVD

DSGN D. MARTIN | DR E. HAMMONS | CHK A. SMITH | APVD D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

Clermont County

ch2m

RA Consultants, LLC Engineers and Surveyors

CIVIL

PART "A" SANITARY SEWER PLAN AND PROFILE

1"=40'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING. 0 1"

DATE	2016-05-20
PROJ	665163
DWG	C-006
SHEET	8 of 91

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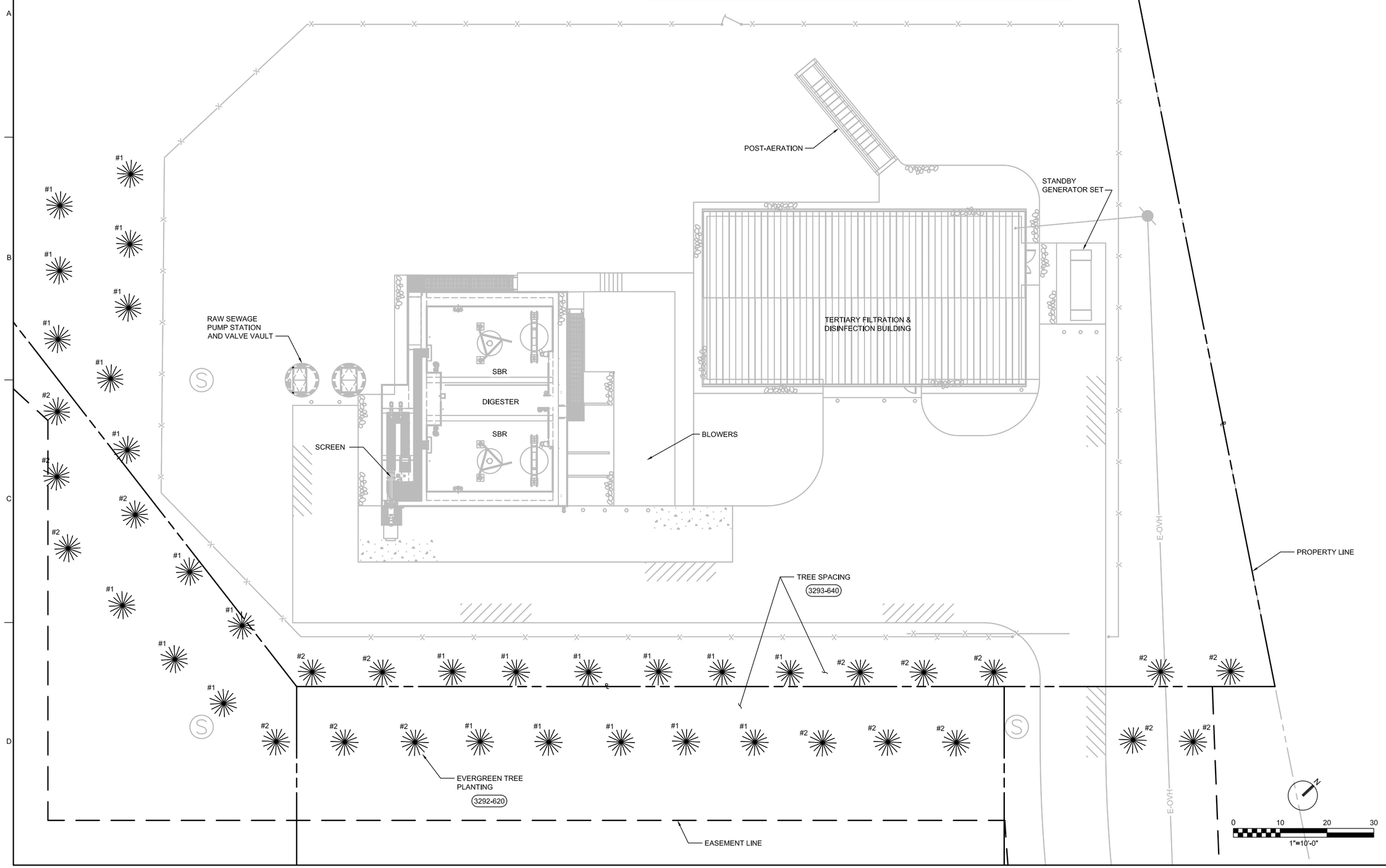
TREE ID	BOTANICAL/COMMON NAME	HGT	QTY	DETAIL
#1	PINUS STROBUS/EASTERN WHITE PINE	6'	24	3292-620
#2	PICEA OMORIKA/NORWAY SPRUCE	6'	19	3292-620



NO.	DATE	REVISION	BY	APVD
DSGN	A SMITH	DR A SMITH	CHK D CORBETT	APVD J GAGNON

A SMITH

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Clermont County

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART A
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

ch2m

CIVIL

LANDSCAPING PLAN

1"=10'

VERIFY SCALE

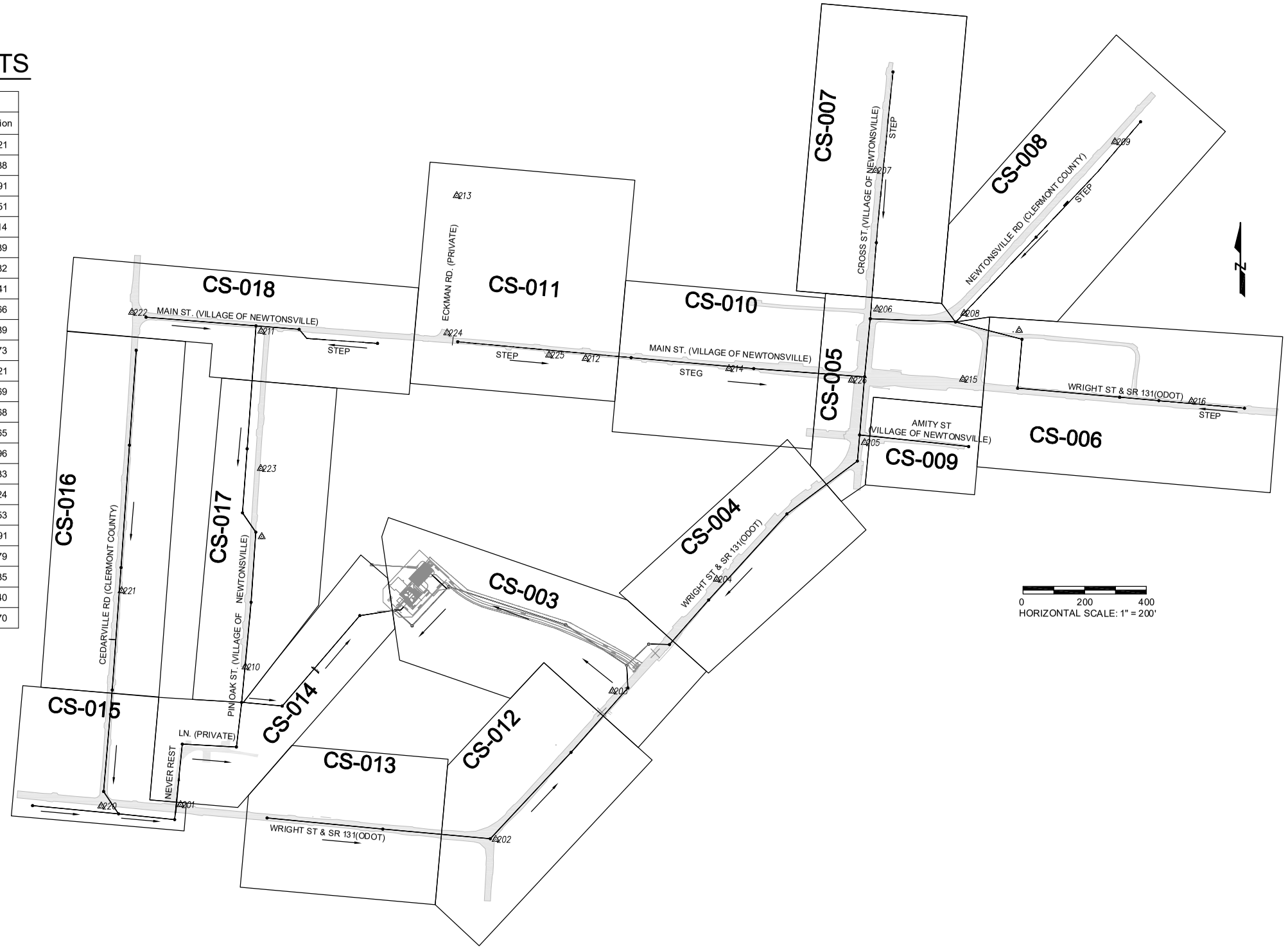
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-08-26
PROJ	665163
DWG	C-008
SHEET	10 of 91

SURVEY CONTROL POINTS

Point Table				
Point #	Description	NORTHING	EASTING	Elevation
202	IRON REBAR W/ CAP SET	432941.92	1517535.71	903.21
203	MAG NAIL SET	433423.06	1517914.34	896.88
204	MAG NAIL SET	433786.09	1518252.54	902.91
205	MAG NAIL SET	434229.46	1518732.63	905.51
206	MAG NAIL SET	434662.35	1518772.98	904.14
207	IRON REBAR W/ CAP SET	435112.15	1518768.42	893.39
208	MAG HUB SET	434639.67	1519022.47	903.82
201	IRON REBAR W/ CAP SET	433054.36	1516513.08	899.41
209	IRON REBAR W/ CAP SET	435205.21	1519544.69	892.66
210	MAG NAIL SET	433501.31	1516723.57	897.89
211	MAG NAIL SET	434590.46	1516774.95	895.73
212	MAG NAIL SET	434501.82	1517827.04	895.21
213	IRON REBAR W/ CAP SET	435030.37	1517409.13	882.69
214	IRON REBAR W/ CAP SET	434469.17	1518292.49	898.68
215	MAG NAIL SET	434434.18	1519051.41	907.65
216	IRON REBAR W/ CAP SET	434363.35	1519793.33	900.96
217	IRON REBAR W/ CAP SET	434319.29	1520369.56	901.33
220	MAG HUB SET	433050.15	1516255.83	901.24
221	IRON REBAR W/ CAP SET	433748.29	1516321.76	898.53
222	MAG HUB SET	434651.63	1516355.46	896.91
223	IRON REBAR W/ CAP SET	434144.90	1516773.28	897.79
224	IRON REBAR W/ CAP SET	434584.82	1517378.06	883.35
225	MAG NAIL SET	434513.40	1517708.75	895.40
226	MAG NAIL SET	434431.97	1518690.58	904.70

HORIZONTAL DATUM : NAD 83
VERTICAL DATUM : NAVD 88



PLAN AND PROFILE LEGEND

- UTILITY POLE
  - P - ELECTRIC POWER
  - T - TELEPHONE
  - C - CABLE
- POLE ANCHOR
- CATCH BASIN
- WATER METER
- FIRE HYDRANT & VALVE
- TREE STUMP
- TREES
- MAIL BOX
- SIGN
- TEST BORE
- LIGHT

JOHN SMITH - INDICATES OWNER
100 S.R. 131 - INDICATES AUDITORS ADDRESS
(AKA 110 WRIGHT ST) - INDICATES MAILING ADDRESS

1 - STEP POD
TOP= (INDICATES TOP OF LID)
INV= (INDICATES INVERT OF THE HOMEOWNERS CONNECTION)
BOTTOM= (INDICATES BOTTOM ELEVATION OF POD)

2 - STEG POD
TOP= (INDICATES TOP OF LID ELEVATION)
INV= (INDICATES INVERT OF THE HOMEOWNERS CONNECTION)
BOTTOM= (INDICATES BOTTOM ELEVATION POD)

3 - 20 AMP PANEL (BY HOMEOWNER) & PUMP CONTROL PANEL (BY CONTRACTOR)

4 - SANITARY 4" BALL VALVE,VALVE BOX AND PLUG FOR FUTURE STEP CONNECTION (REFER TO DETAIL)

- SANITARY BALL VALVE FOR PROPOSED CONNECTION TO LOW PRESSURE FORCE MAIN

- SANITARY CLEAN OUT FOR PROPOSED CONNECTION TO NON-PRESSURE MAIN

PLAN WINDOW ON PLAN AND PROFILE SHEET

CS-008

DRAWING NUMBER

NO.	DATE	REVISION	BY	APVD

DSGN D. MARTIN | DR E. HAMMONS | CHK | APVD

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

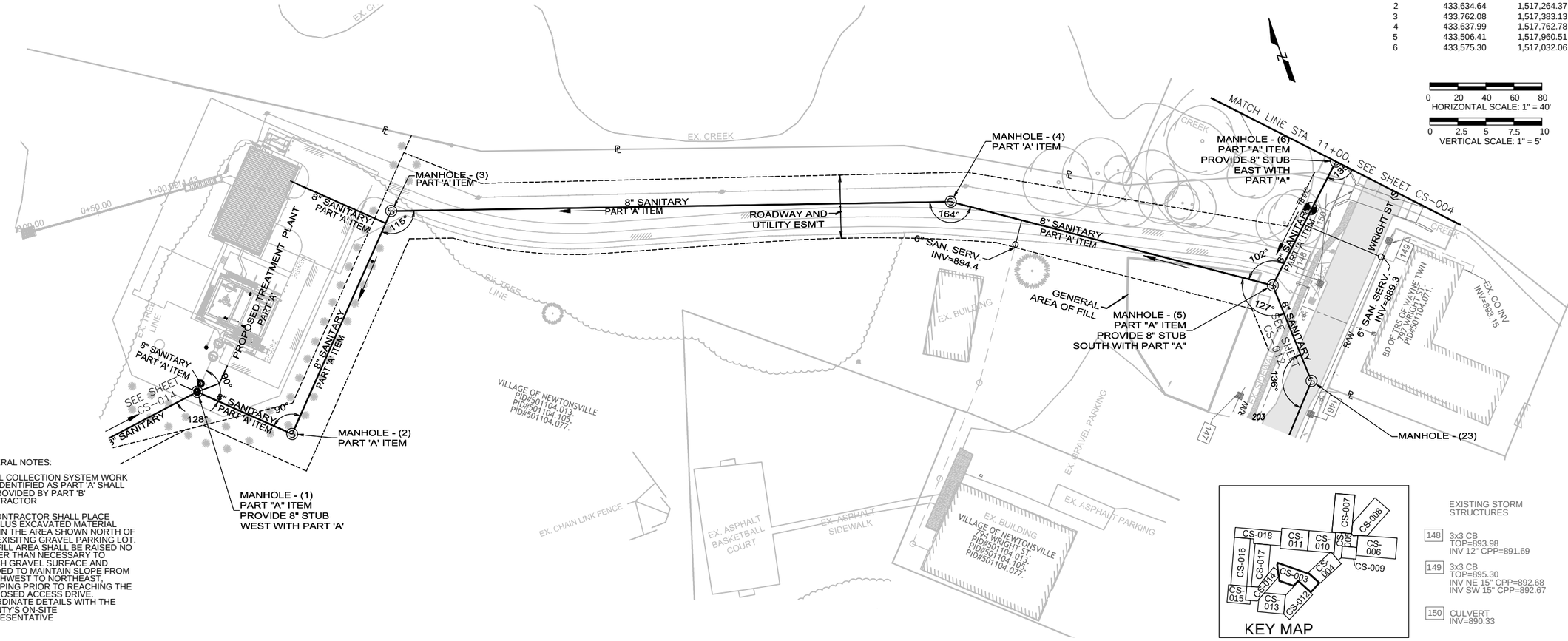
CONVEYANCE

KEY PLAN AND SURVEY CONTROL

NTS
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-001
SHEET	72 of 91

MANHOLE	NORTHING	EASTING
1	433,685.20	1,517,210.13
2	433,634.64	1,517,264.37
3	433,762.08	1,517,383.13
4	433,637.99	1,517,762.78
5	433,506.41	1,517,960.51
6	433,575.30	1,517,032.06



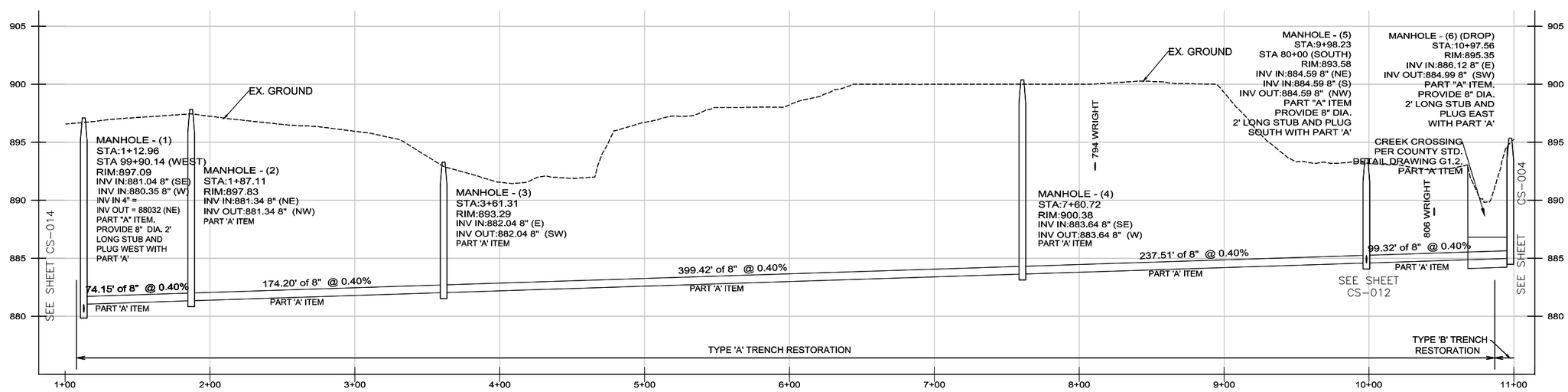
GENERAL NOTES:

1) ALL COLLECTION SYSTEM WORK NOT IDENTIFIED AS PART 'A' SHALL BE PROVIDED BY PART 'B' CONTRACTOR

2) CONTRACTOR SHALL PLACE SURPLUS EXCAVATED MATERIAL WITHIN THE AREA SHOWN NORTH OF THE EXISITNG GRAVEL PARKING LOT. THE FILL AREA SHALL BE RAISED NO HIGHER THAN NECESSARY TO MATCH GRAVEL SURFACE AND GRADED TO MAINTAIN SLOPE FROM SOUTHWEST TO NORTHEAST, STOPPING PRIOR TO REACHING THE PROPOSED ACCESS DRIVE. COORDINATE DETAILS WITH THE COUNTY'S ON-SITE REPRESENTATIVE

EXISTING STORM STRUCTURES

148	3x3 CB TOP=893.98 INV 12" CPP=891.69
149	3x3 CB TOP=895.30 INV NE 15" CPP=892.68 INV SW 15" CPP=892.67
150	CULVERT INV=890.33



NO.	DATE	REVISION	BY	APVD
DSGN	D. MARTIN	DR E. HAMMONS	CHK D. MARTIN	APVD D. MARTIN

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Clermont County

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT &
COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES
DEPARTMENT, CLERMONT COUNTY, OHIO

Consultants, LLC
Engineers and Surveyors
All Licensed in Ohio

ch2m:

CONVEYANCE

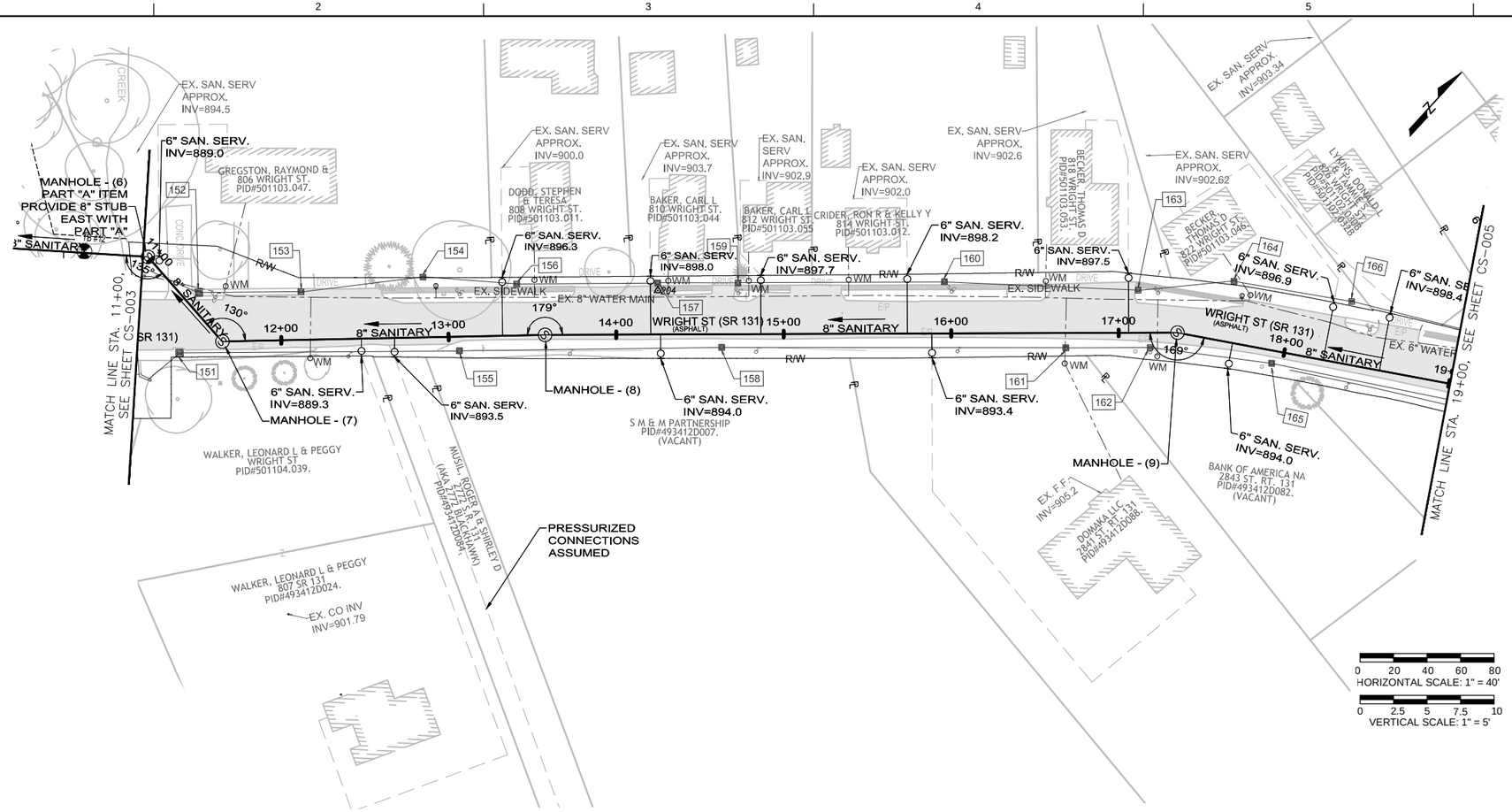
ACCESS DRIVE
STA. 1+00 TO 11+00

1"=40'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-003
SHEET	74 of 91



EXISTING STORM STRUCTURES

151 3x3 CB
TOP=896.36
INV NE 15" CPP=893.91
INV=S 15" CPP=893.81

152 3x3 CB
TOP=896.95
INV NE 15" CPP=895.02
INV SW 15" CPP=895.13

153 2x2 CB
TOP=898.79
INV NE 15" CPP=896.84
INV SW 15" CPP=896.89

154 2x2 CB
TOP=900.37
INV NE 15" CPP=897.03
INV SW 15" CPP=897.04

155 3x3 CB
TOP=900.64
INV NE 12" CPP=897.77
INV=SW 12" CPP=897.78

156 2x2 CB
TOP=901.32
INV NE 15" CPP=897.42
INV SW 15" CPP=897.40

157 2x2 CB
TOP=902.63
INV NE 15" CPP=897.92
INV SW 15" CPP=897.89

158 3x3 CB
TOP=901.32
INV NE 12" CPP=898.43
INV=SW 12" CPP=898.37

159 2x2 CB
TOP=902.92
INV NE 12" CPP=898.03
INV SW 15" CPP=898.11

160 2x2 CB
TOP=903.59
INV NE 12" CPP=898.23
INV SW 12" CPP=898.20

161 2x2 CB
TOP=901.98
INV NE 12" CPP=899.06
INV=SW 12" CPP=899.18

162 2x2 CB
TOP=903.30
INV NE 12" CPP=899.71
INV=SW 12" CPP=899.60

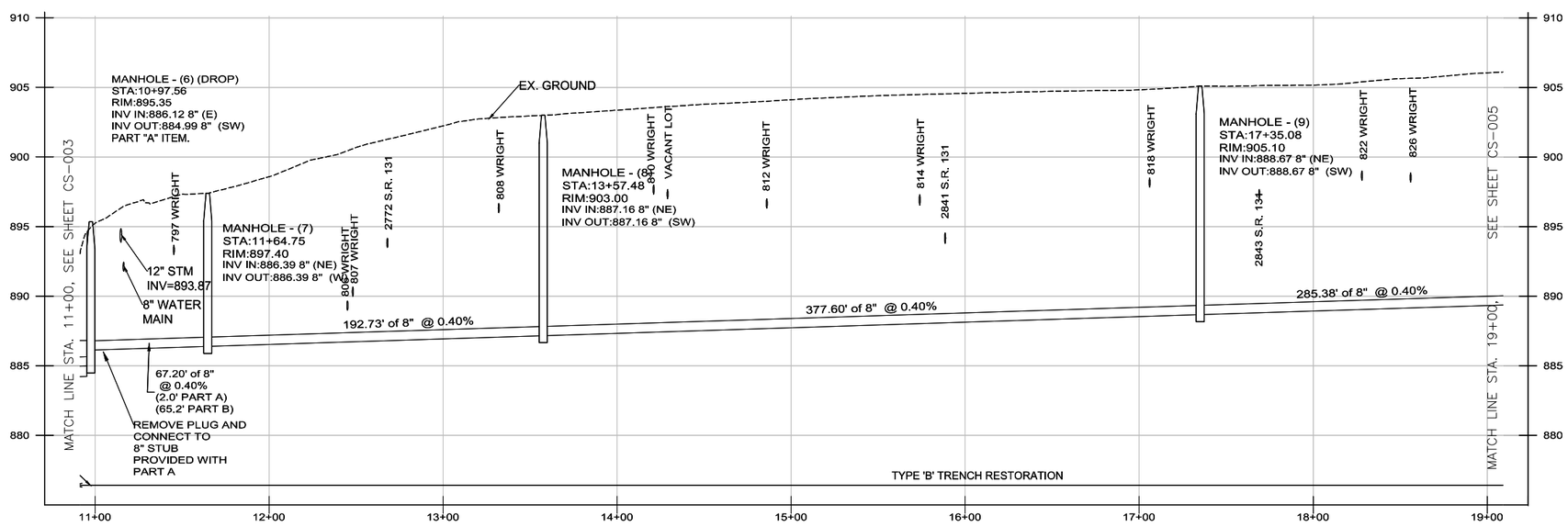
163 2x2 CB
TOP=904.07
INV NE 12" CPP=899.40
INV SW 12" CPP=899.35

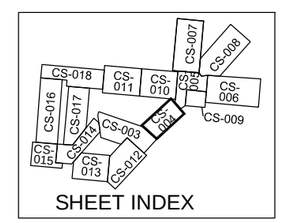
164 2x2 CB
TOP=903.88
INV NE 12" CPP=900.06
INV SW 12" CPP=900.02

165 2x2 CB
TOP=903.88
INV NE 12" CPP=900.22
INV SW 12" CPP=900.23

166 2x2 CB
TOP=904.17
INV NE 12" CPP=900.27
INV SW 12" CPP=900.29

MANHOLE	NORTHING	EASTING
7	433,573.80	1,518,099.24'
8	433,718.51'	1,518,226.54'
9	433,997.78'	1,518,480.68'





NO.	DATE	REVISION	BY	APVD
DSGN	D.MARTIN	DR D.MARTIN	CHK D.MARTIN	APVD D.MARTIN

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VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

Clermont County

ch2m: Consultants, LLC Engineers and Surveyors

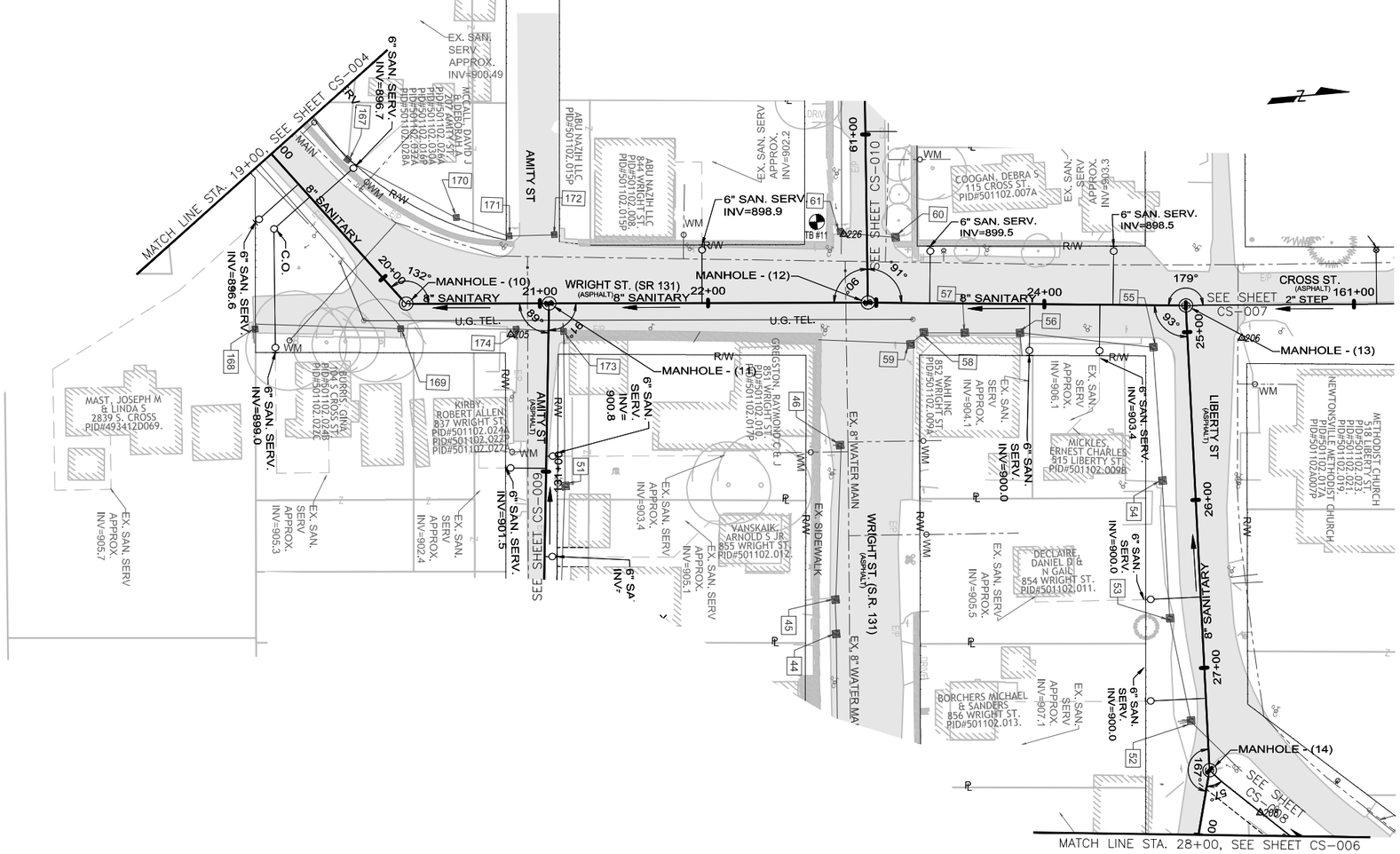
CONVEYANCE

WRIGHT STREET STA. 11+00 TO 19+00

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-004
SHEET	75 of 91



EXISTING STORM STRUCTURES

52 3x3 CB
TOP= 904.04
15" CPP W INV= 901.46
15" CPP E INV= 901.29
4" CPP S TOP= 902.05
4" PVC S TOP= 902.77
4" PVC S TOP= 902.06

53 3x3 CB
TOP= 904.40
15" CPP W INV= 901.61
15" CPP E INV = 901.63

54 3x3 CB
TOP= 905.17
15" CPP W INV= 902.47
15" CPP E INV = 902.43

55 3x3 CB
TOP=904.74
INV S 12" CPP=902.66
INV E 15" CPP=902.50

56 2x2 CB
TOP=905.32
INV N 12" CPP=903.03
INV S 12" CPP=903.17
INV E 4" PVC=904.30

57 2x2 CB
TOP=905.19
INV N 12" CPP=903.32
INV S 12" CPP=903.32

58 2x2 CB
TOP=905.52
INV N 12" CPP=903.50
INV SE 12" CPP=903.69

59 2x2 CB
TOP=905.53
INV NW 12" CPP=903.94
INV S 12" CPP=903.79

60 3x3 CB
TOP=904.52
12" RCP S INV=902.20

61 2x2 CB
TOP=904.73
15" CPP INV=899.56
12" CPP INV=899.70

167 2x2 CB
TOP=904.02
INV SW 12" CPP=900.52
INV NE 12" CPP=900.51

168 2x2 CB
TOP=905.12
INV NE 12" CPP=902.36

169 2x2 CB
TOP=905.05
INV N 12" CPP=901.55
INV E 12" CPP=903.20
INV S 12" CPP=901.57
INV SW 12" CPP=901.49

170 2x2 CB
TOP=904.16
INV N 12" CPP=900.77
INV E 12" CPP=900.76

171 2x2 CB
TOP=904.07
INV N 12" CPP=900.93
INV S 12" CPP=900.87

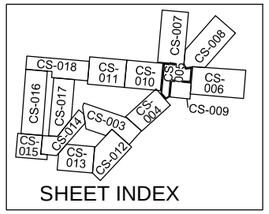
172 2x2 CB
TOP=903.94
INV S 12" CPP=901.13

173 2x2 CB
TOP=905.00
INV W 12" CPP=902.42
INV E 12" CPP=902.29
INV S 12" CPP=902.30

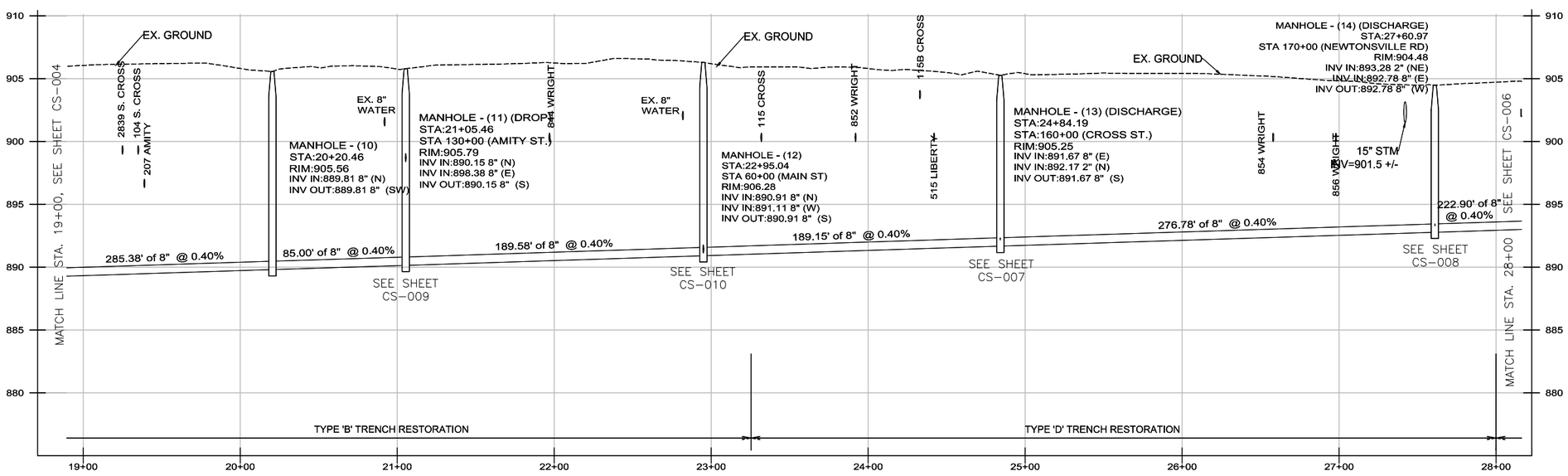
174 2x2 CB
TOP=905.11
INV E 12" CPP=903.41
INV S 12" CPP=902.21
INV N 12" CPP=902.22

MANHOLE	NORTHING	EASTING
10	434,169.06	1,518,708.95
11	434,253.75	1,518,716.21
12	434,442.63	1,518,732.42
13	434,630.89	1,518,750.78
14	434,620.55	1,519,027.36

0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'
0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'



SHEET INDEX



NO.	DATE	DR	REVISION	BY	APVD

DSGN D. MARTIN | DR E. HAMMONS | CHK D. MARTIN | APVD D. MARTIN | BY D. MARTIN | APVD

Clermont County

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT &
COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES
DEPARTMENT, CLERMONT COUNTY, OHIO

ch2m: Consultants, LLC Engineers and Surveyors

CONVEYANCE

WRIGHT ST., CROSS ST. & LIBERTY ST. STA. 19+00 TO 28+00

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-005
SHEET	76 of 91

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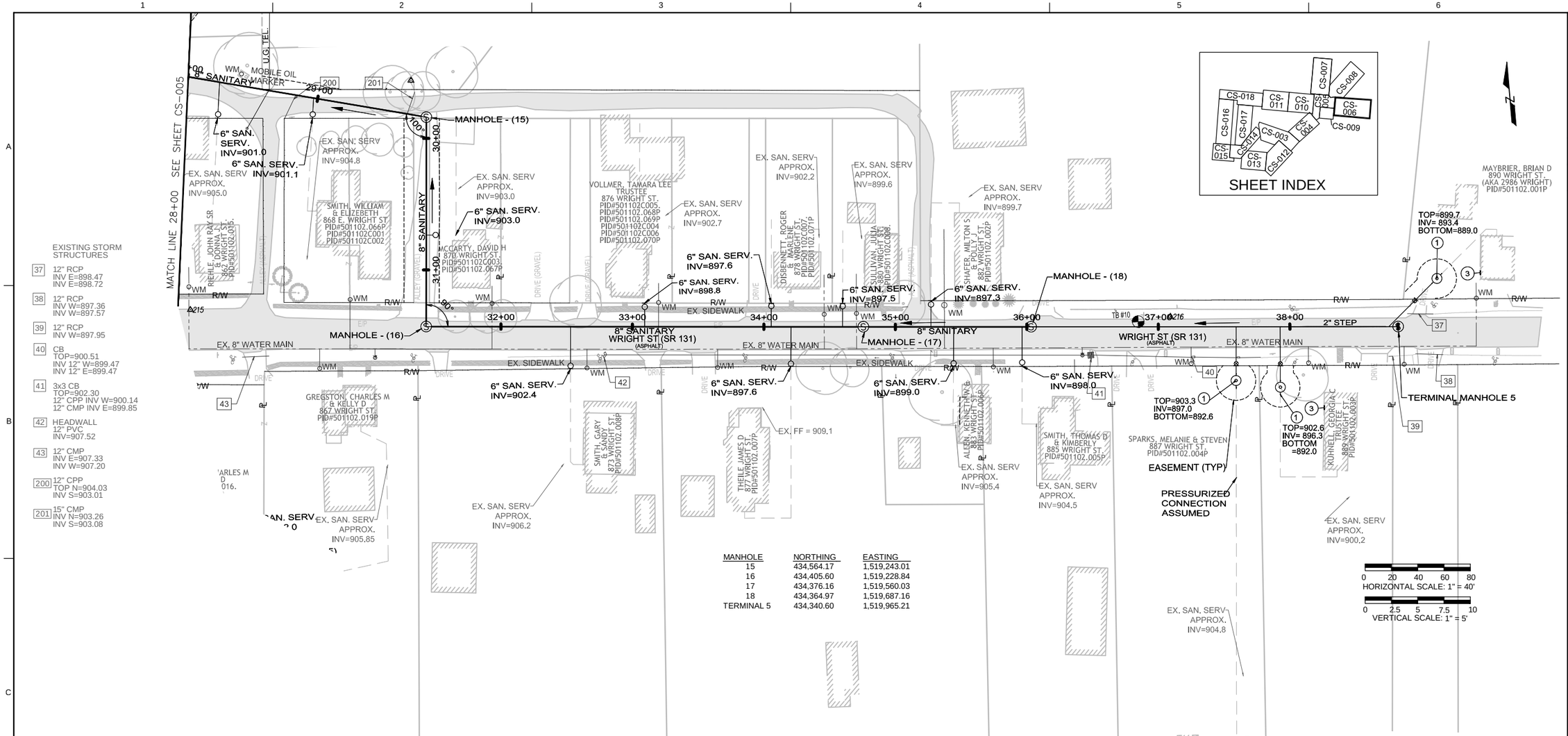
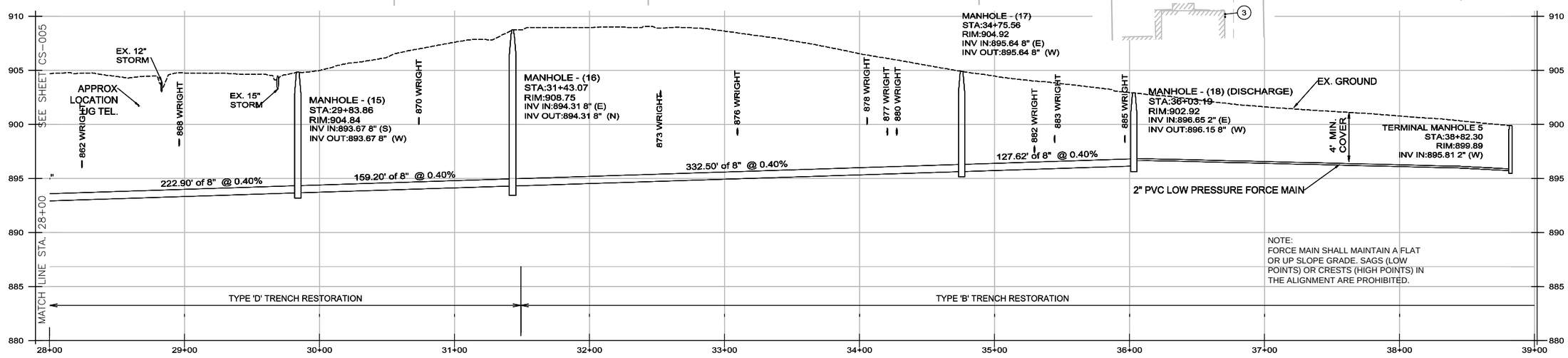


EXISTING STORM STRUCTURES

37	12" RCP INV E=898.47 INV E=898.72
38	12" RCP INV W=897.36 INV W=897.57
39	12" RCP INV W=897.95
40	CB TOP=900.51 INV 12" W=899.47 INV 12" E=899.47
41	3x3 CB TOP=902.30 12" CPP INV W=900.14 12" CMP INV E=899.85
42	HEADWALL 12" PVC INV=907.52
43	12" CMP INV E=907.33 INV W=907.20
200	12" CPP TOP N=904.03 INV S=903.01
201	15" CMP INV N=903.26 INV S=903.08

MANHOLE	NORTHING	EASTING
15	434,564.17	1,519,243.01
16	434,405.60	1,519,228.84
17	434,376.16	1,519,560.03
18	434,364.97	1,519,687.16
TERMINAL 5	434,340.60	1,519,965.21



NOTE:
FORCE MAIN SHALL MAINTAIN A FLAT OR UP SLOPE GRADE. SAGS (LOW POINTS) OR CRESTS (HIGH POINTS) IN THE ALIGNMENT ARE PROHIBITED.

NO.	DATE	REVISION	BY	APVD

DSGN D. MARTIN | DR E. HAMMONS | CHK D. MARTIN | APVD D. MARTIN | BY D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

WRIGHT STREET STA. 28+00 TO 38+82

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-006
SHEET	77 of 91

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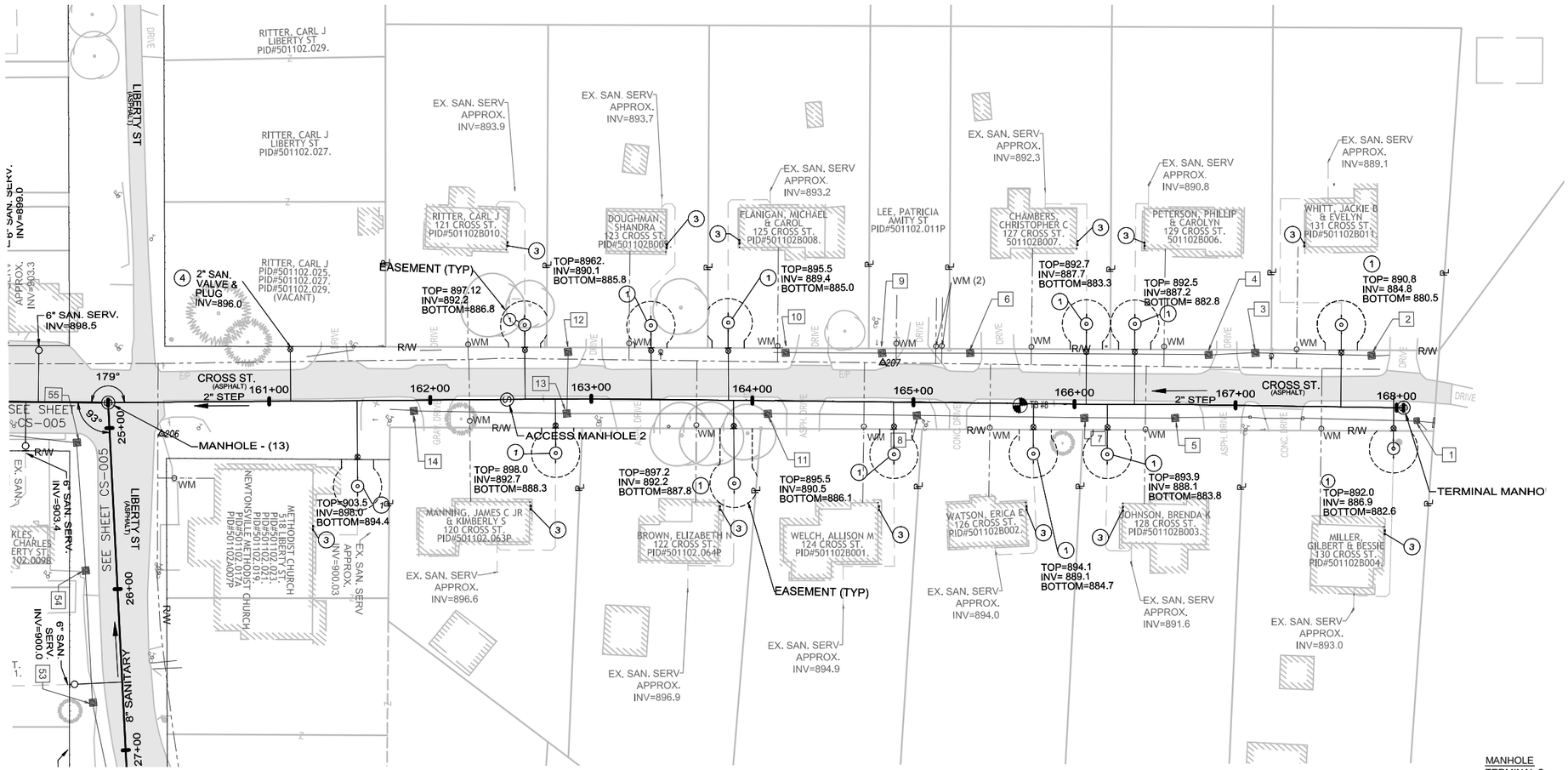
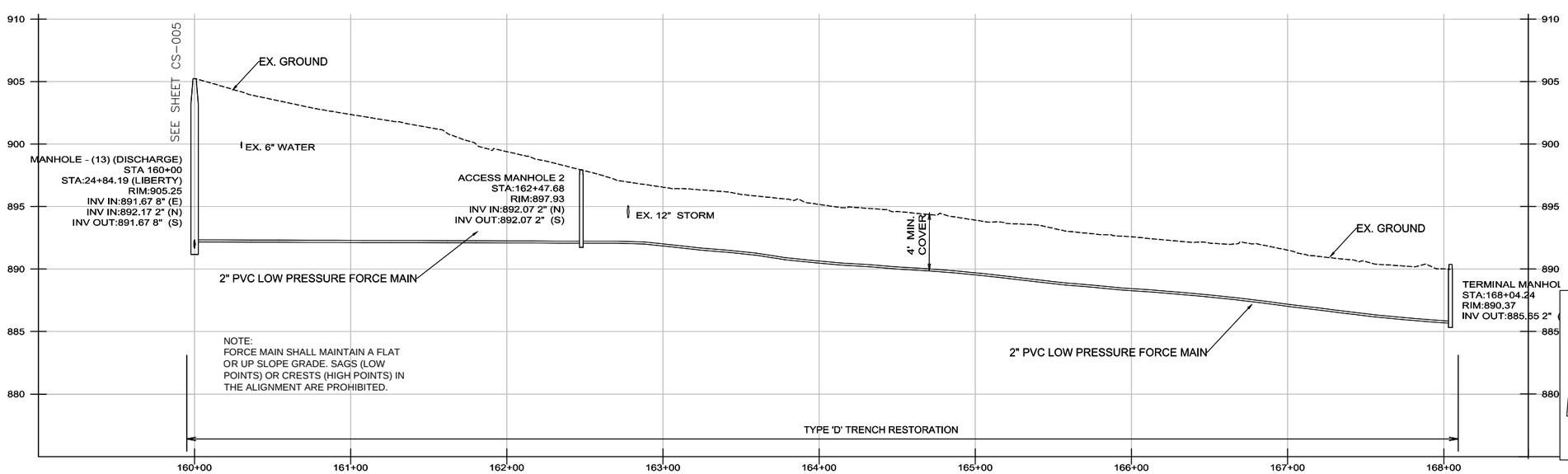
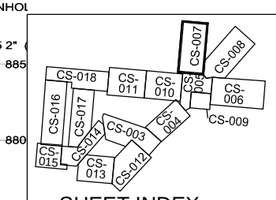


MANHOLE	NORTHING	EASTING
TERMINAL 2	435,431.68	1,518,824.74
ACCESS 2	434,877.77	1,518,770.69

0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'

0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'





NO.	DATE	REVISION	BY	APVD
DSGN	D. MARTIN	DR E. HAMMONS	CHK D. MARTIN	APVD D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT &
COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES
DEPARTMENT, CLERMONT COUNTY, OHIO

Clermont County

ch2m

Consultants, LLC
Engineers and Surveyors
4010 Aicholtz Road
Cincinnati, OH 45245-1010

CONVEYANCE

CROSS STREET
STA. 160+00 TO 168+04

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-007
SHEET	78 of 91

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EXISTING STORM STRUCTURES

15 15" CPP INV=889.97

16 15" CMP STM INV SW=889.95 INV NE=890.35

17 12" RCP STM INV SW=891.69 INV NE=891.90

18 15" CPP INV=890.97

19 12" RCP STM INV SW=893.62 INV NE=894.23

20 15" CMP STM NE HEADWALL INV=891.57 SW HEADWALL INV=892.02

21 4" PVC INV=893.86

22 12" CMP STM SW INV=895.35 NE INV=896.21

23 15" CMP STM SW INV=893.70 NE INV=894.37

24 DRAIN TOP=897.47 15" CPP STM =895.59

25 15" CPP INV=895.26

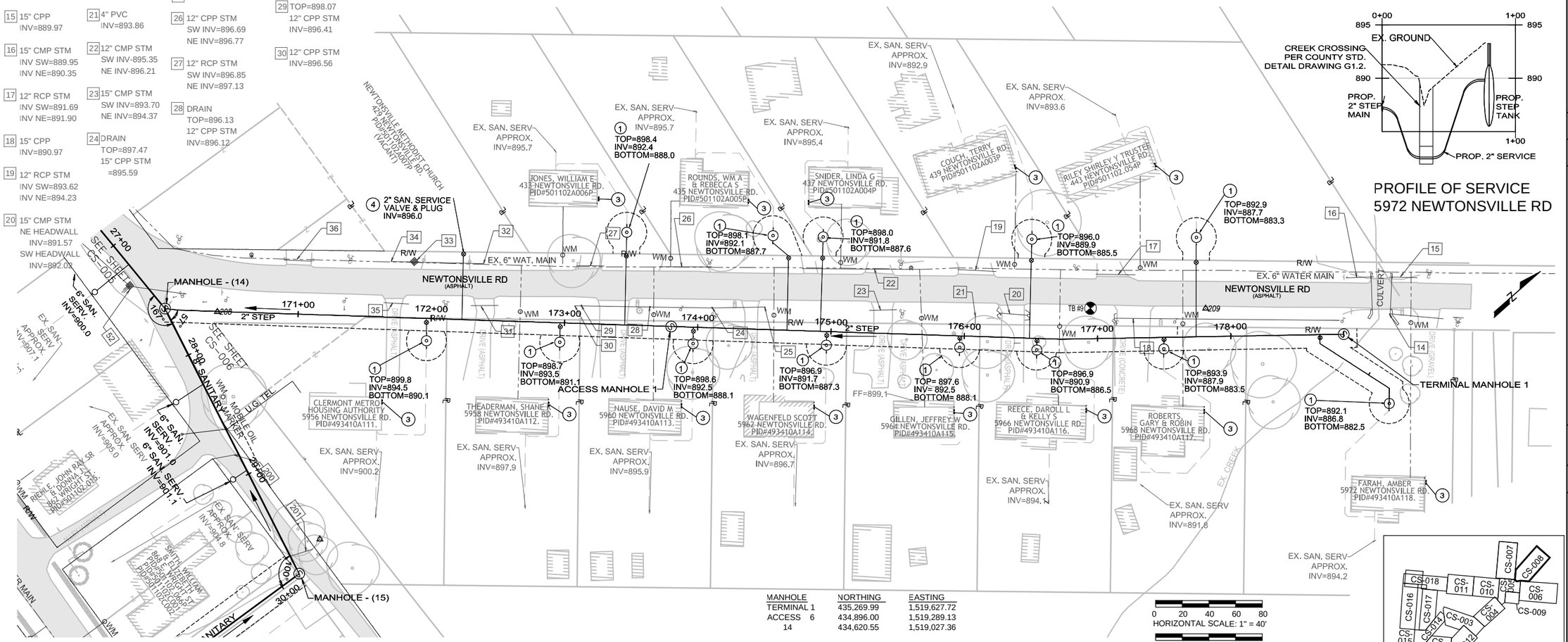
26 12" CPP STM SW INV=896.69 NE INV=896.77

27 12" RCP STM SW INV=896.85 NE INV=897.13

28 DRAIN TOP=896.13 12" CPP STM INV=896.12

29 DRAIN TOP=898.07 12" CPP STM INV=896.41

30 12" CPP STM INV=896.56

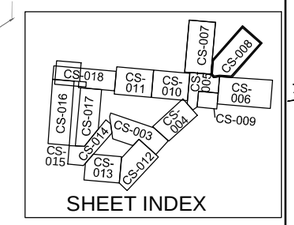


PROFILE OF SERVICE
5972 NEWTONSVILLE RD

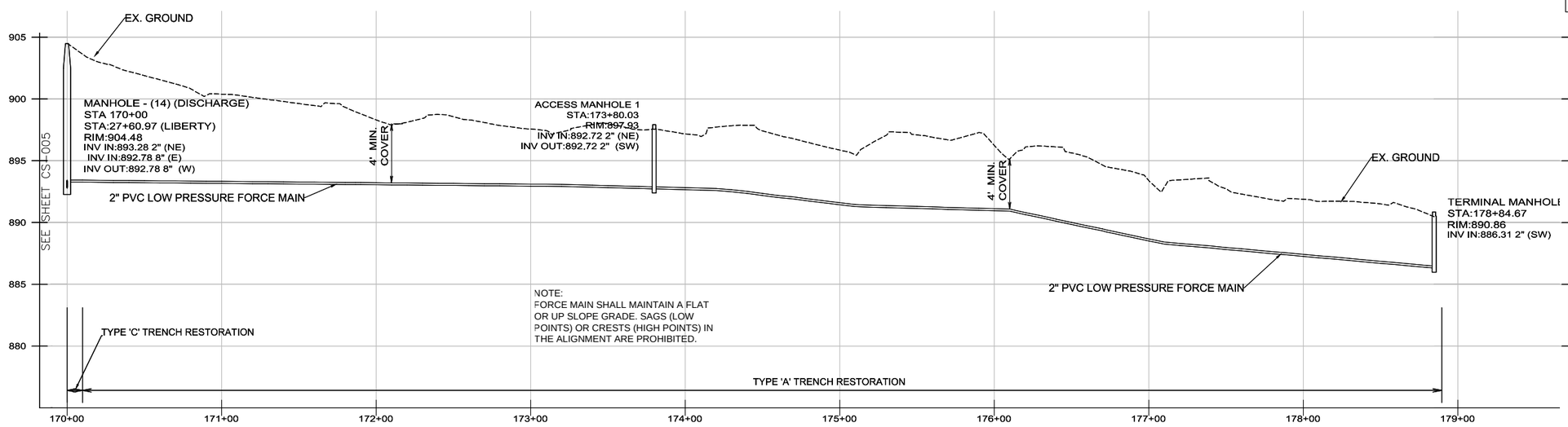
MANHOLE	NORTHING	EASTING
TERMINAL 1	435,269.99	1,519,627.72
ACCESS 6	434,896.00	1,519,289.13
14	434,620.55	1,519,027.36

0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'

0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'



SHEET INDEX



EXISTING STORM STRUCTURES

31 12" CMP STM SW INV=897.03 NE INV=897.08

32 12" CPP STM INV=897.49

33 3x3 CB TOP=899.71 INV NE 12" CPP =898.02 INV SW 12" CPP =898.03

34 12" CPP STM INV=898.43

35 15" CMP STM SW INV=897.79 NE INV=897.65

36 12" CMP STM. NE INV=900.16 SW INV=899.85

NO.	DATE	REVISION	BY	APVD

DSGN D. MARTIN | DR E. HAMMONS | CHK D. MARTIN | APVD D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES
DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

NEWTONSVILLE ROAD
STA. 170+00 TO 178+85

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-008
SHEET	79 of 91

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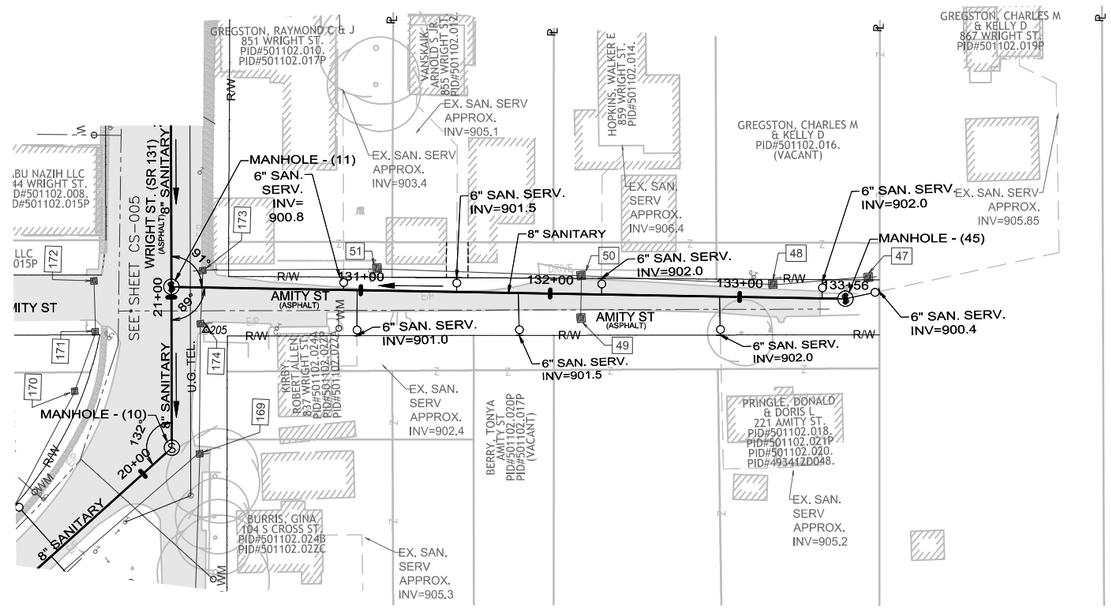


MANHOLE	NORTHING	EASTING
11	434,253.75	1,518,716.21
45	434,216.10	1,519,070.07

EXISTING STORM STRUCTURES

47 — 47 3x3 CB
TOP=907.20
12" CPP W INV=904.65
12" CPP E INV=904.70

48 — 48 3x3 CB
TOP=906.52
12" CPP W INV=904.12
12"CPP E INV=904.35

49 — 49 3x3 CB
TOP=906.18
12" CPP N INV=903.49

50 — 50 3x3 CB
TOP=906.96
12" CPP W INV=903.37
12" CPP E INV=903.42
12" CPP S INV=903.45

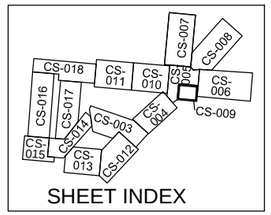
51 — 51 3x3 CB
TOP=905.12
12" CPP W INV=902.88
12" CPP E INV=902.88
12" CPP S INV=903.18

173 — 2x2 CB
TOP=905.00
INV W 12" CPP=902.42
INV E 12" CPP=902.29
INV S 12" CPP=902.30

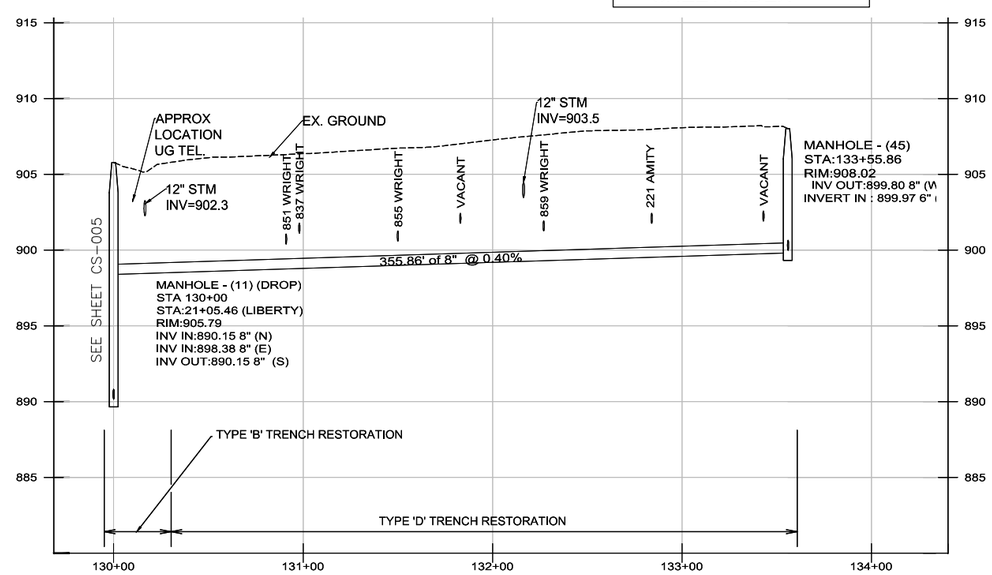
174 — 2x2 CB
TOP=905.11
INV N 12" CPP=902.22
INV E 12" CPP=903.41
INV S 12" CPP=902.21

0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'

0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'



SHEET INDEX



NO.	DATE	REVISION	BY	APVD

DSGN D. MARTIN | DR E. HAMMONS | CHK D. MARTIN | APVD D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

AMITY ST.
STA. 130+00 TO 133+56

1"=40'

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-009
SHEET	80 of 91

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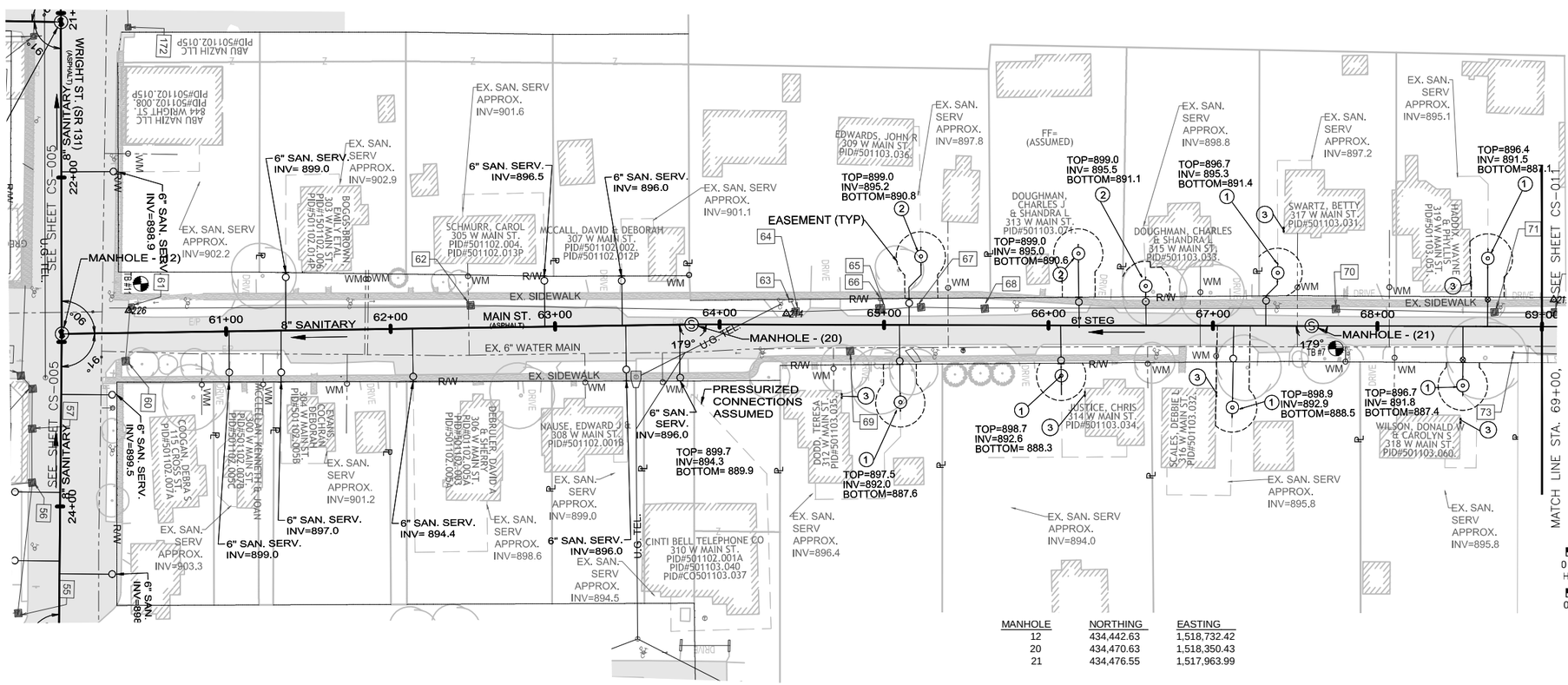


MANHOLE	NORTHING	EASTING
12	434,442.63	1,518,732.42
20	434,470.63	1,518,350.43
21	434,476.55	1,517,963.99

EXISTING STORM STRUCTURES

60 3x3 CB
TOP=904.52
12" RCP S INV=902.20

61 2x2 CB
TOP=904.73
15" CPP W INV=899.56
12" CPP E INV=899.70

62 3x3 CB
TOP=901.72
18" RCP E&W INV=897.36

63 3x3 CB
TOP=897.07
12" RCP N INV=896.34

64 3x3 CB
TOP=898.32
18" CPP INV W=895.87
18" CPP INV E=895.90
12" CPP INV S=896.23

65 3x3 CB
TOP=898.32
18" CPP INV W=895.63
18" CPP INV E=895.47
12" CPP INV S=896.90

66 3x3 CB
TOP=897.51
CLAY INV W=897.02

67 3x3 CB
TOP=897.47
8" RCP INV W=895.78
12" RCP INV E=895.69

68 3x3 CB
TOP=897.87
4" PVC INV SW=896.77
8" RCP INV=8 E 96.18

69 3x3 CB
TOP=897.90
FULL OF DEBRIS

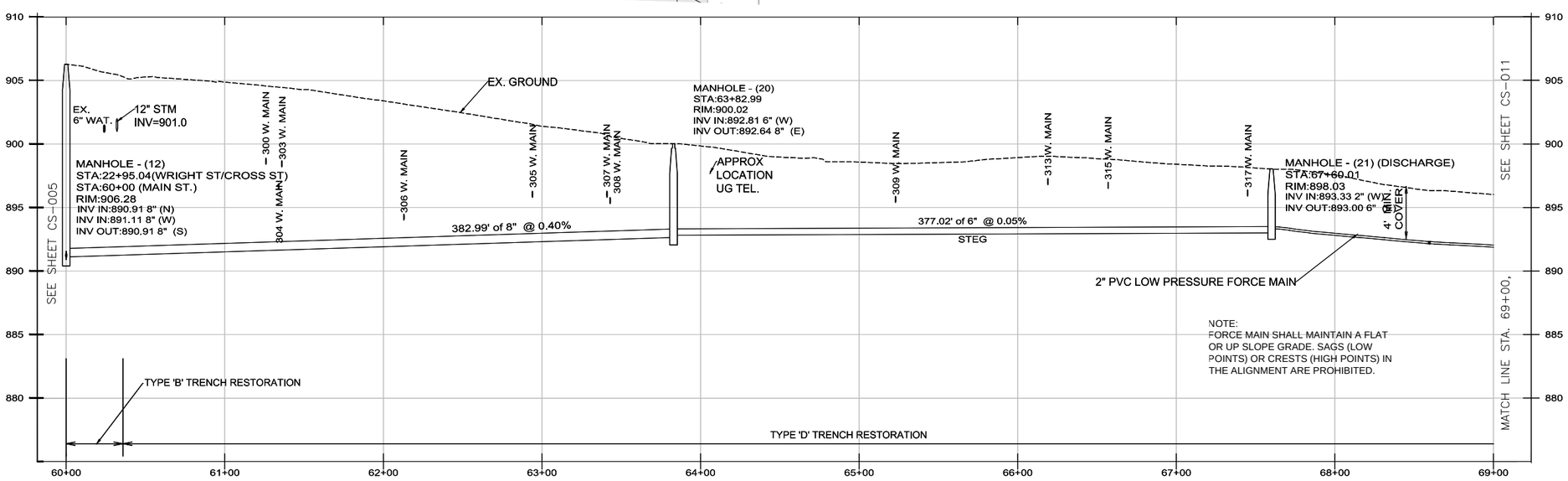
70 3x3 CB
TOP=896.12
15" RCP INV=893.87

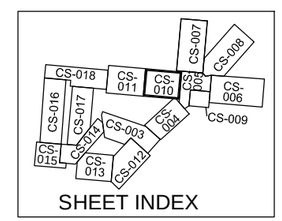
71 3x3 CB
TOP=895.36
15" RCP INV=892.50
15" RCP INV=892.51

72 3x3 CB
TOP=895.19
18" RCP INV=894.91
18" RCP INV=892.05

73 STORM DRAIN
TOP=894.87
INV=893.57

74 3x3 CB
TOP=894.92
12" RCP INV E=893.15
12" RCP INV W=893.12
4" PVC INV NW=894.57





NO.	DATE	REVISION	BY	APVD

DR: E. HAMMONS
CHK: D. MARTIN
APVD: D. MARTIN
D. MARTIN

Clermont County

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

MAIN STREET
STA. 60+00 TO 69+00

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-010
SHEET	81 of 91

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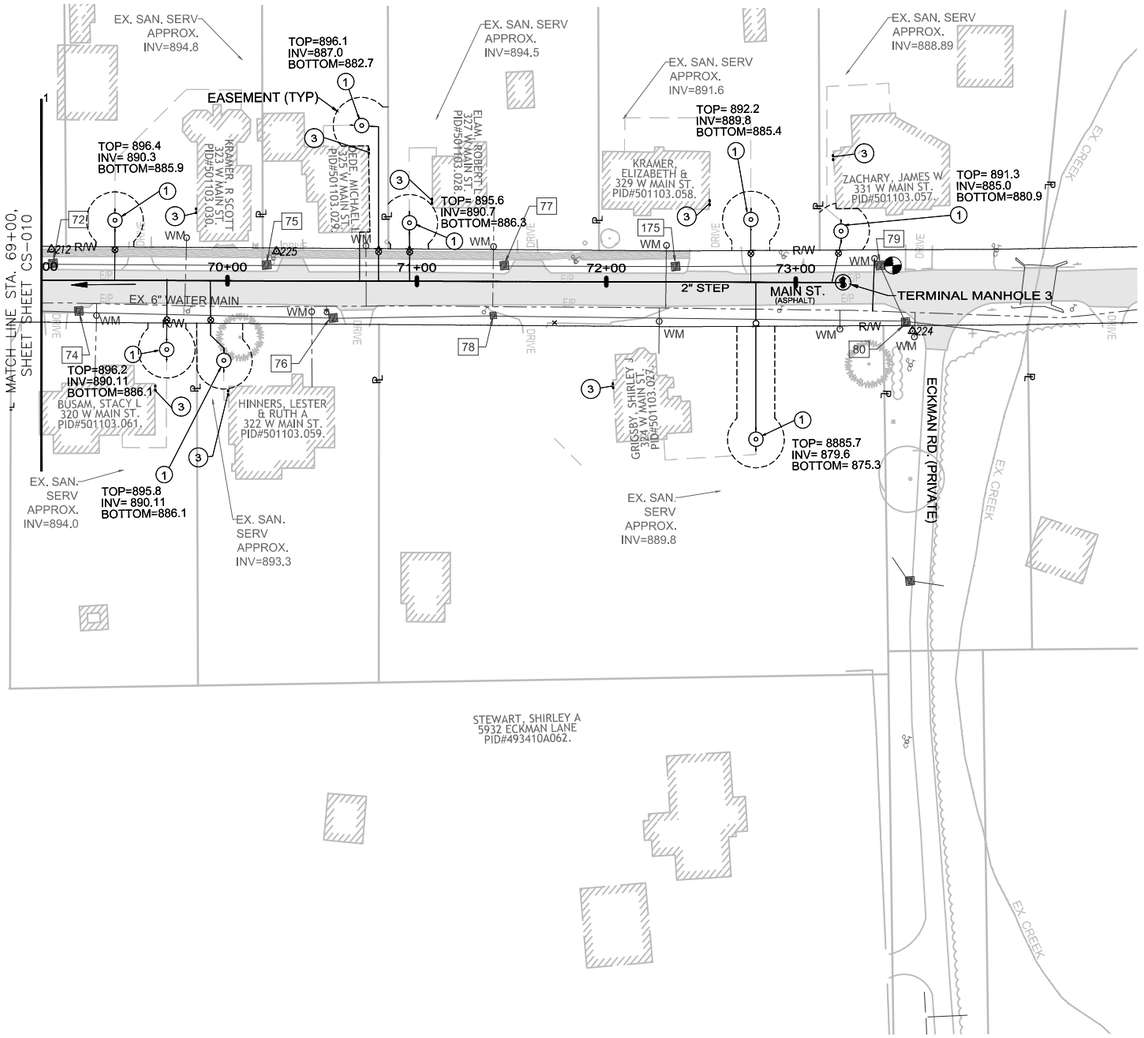


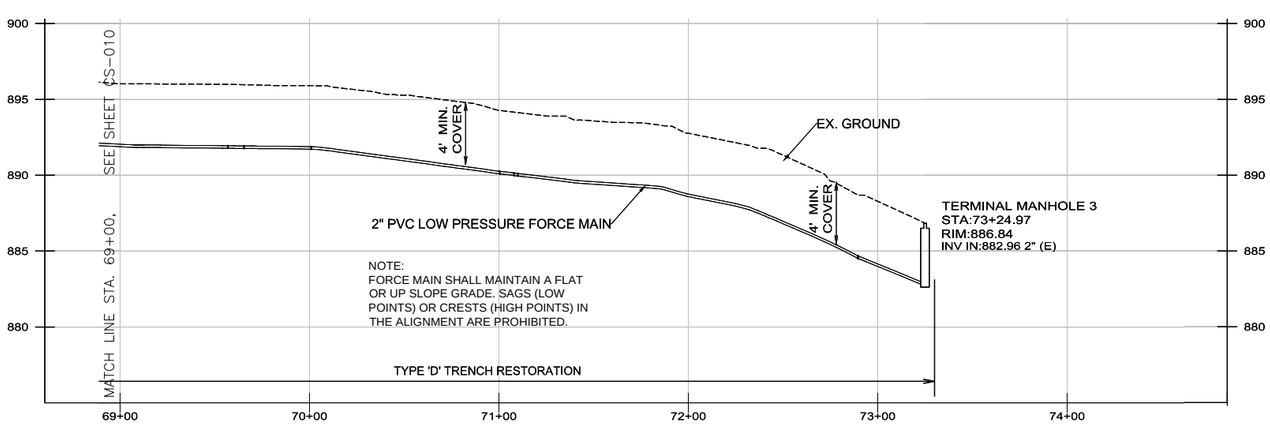
MANHOLE	NORTHING	EASTING
TERMINAL 3	434,556.04	1,517,412.35

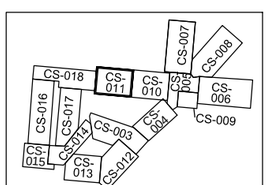
EXISTING STORM STRUCTURES

75	3x3 CB TOP=894.84 18" RCP INV=890.27 18" RCP INV=890.38
76	2x2 CB TOP=904.19 12" CPP INV W=891.80 12" CPP INV E=891.88
77	3x3 CB TOP=892.94 18" RCP INV=888.79 18" RCP INV=888.85
78	2x2 CB TOP=892.25 12" CPP INV W=889.90 12" CPP INV E=889.89
79	3x3 CB TOP=885.42 18" RCP E INV=882.24 18" RCP N INV=882.21
80	2x2 CB TOP=904.73 21" CPP INV W=880.48 15" CPP INV E=882.11 18" RCP INV SE=880.98
175	3x3 CB TOP=891.16 18" RCP INV=885.85 18" RCP W INV=885.90

0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'

0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'





SHEET INDEX

NO.	DATE	REVISION	BY	APVD

DSGN	D. MARTIN	DR	E. HAMMONS	CHK	D. MARTIN	APVD	D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

MAIN STREET
STA.69+00 TO 73+25

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-011
SHEET	82 of 91

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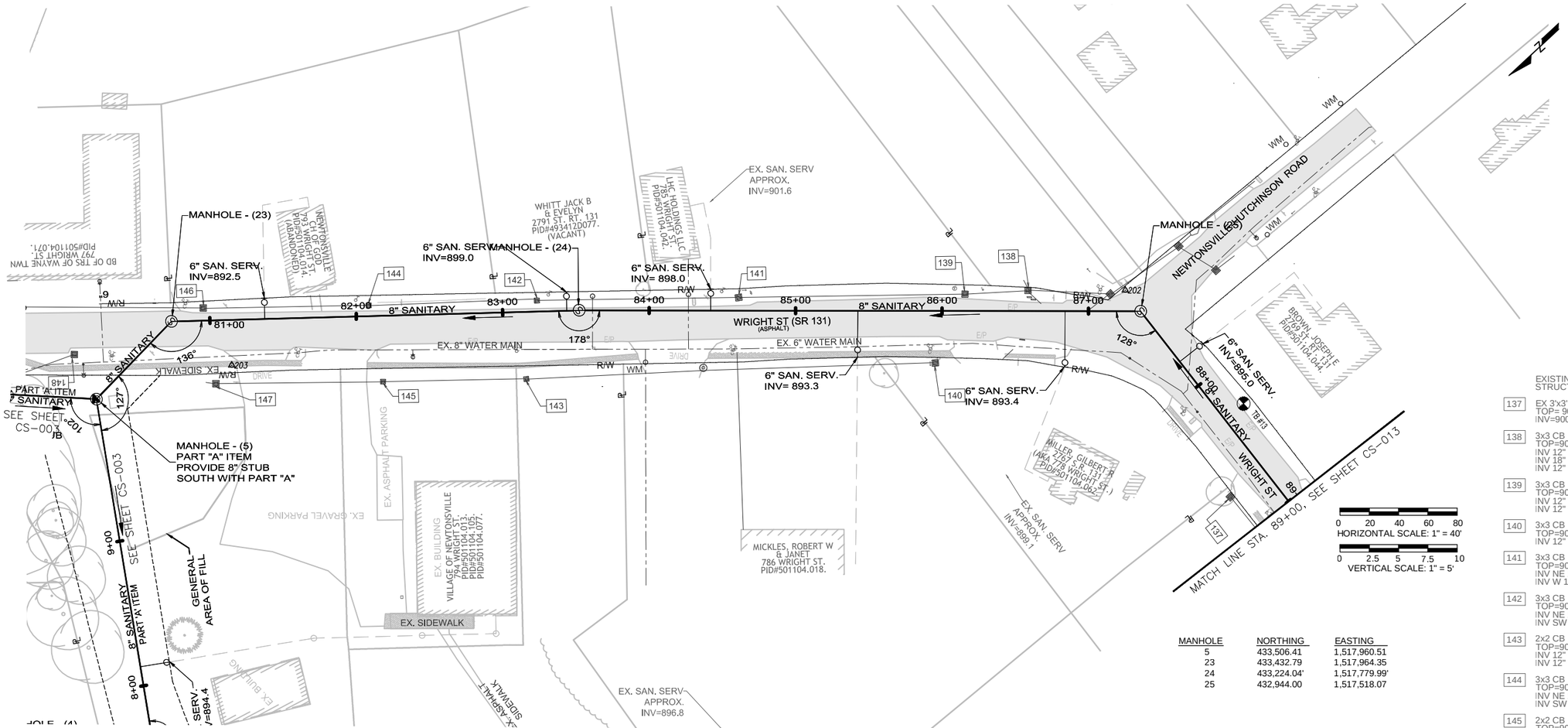


MANHOLE	NORTHING	EASTING
5	433,506.41	1,517,960.51
23	433,432.79	1,517,964.35
24	433,224.04'	1,517,779.99'
25	432,944.00	1,517,518.07

EXISTING STORM STRUCTURES

137 EX 3'x3' CB
TOP= 902.85
INV=900.98

138 3x3 CB
TOP=901.74
INV 12" CPP=899.59
INV 18" RCP=899.73
INV 12" SW=899.64

139 3x3 CB
TOP=902.58
INV 12" CPP=902.58
INV 12" SW=899.44

140 3x3 CB
TOP=902.22
INV 12" CPP=899.62

141 3x3 CB
TOP=901.72
INV NE 12" CPP=897.30
INV W 12" CPP=897.38

142 3x3 CB
TOP=901.68
INV NE 12" CPP=896.34
INV SW 12" CPP=896.91

143 2x2 CB
TOP=900.67
INV 12" CPP=896.76
INV 12" CPP=896.74

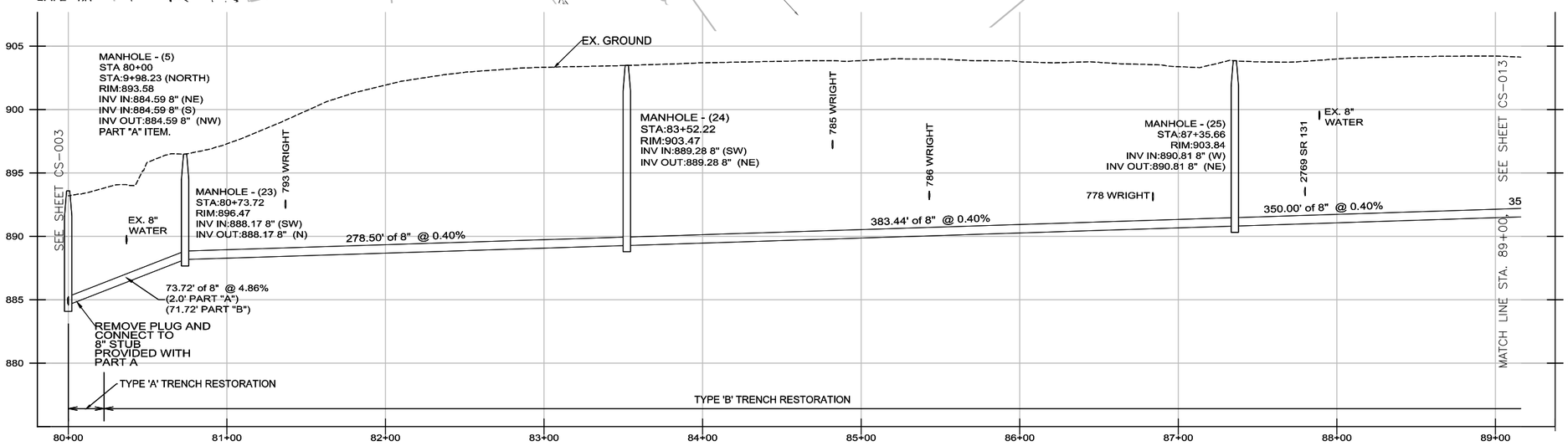
144 3x3 CB
TOP=900.65
INV NE 12" CPP=896.34
INV SW 12" CPP=896.37

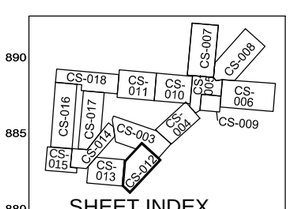
145 2x2 CB
TOP=900.900.39
INV NE 12" CPP=896.29
INV SW 12" CPP=896.22

146 3x3 CB
TOP=896.48
INV NE 15" CPP=893.65
INV SW 15" CPP=893.62

147 2x2 CB
TOP=896.09
INV NE 12" CPP=892.32
INV SW 12" CPP=892.33

148 3x3 CB
TOP=893.98
INV 12" CPP=891.69





SHEET INDEX

NO.	DATE	DR	REVISION	CHK	APVD	BY	APVD
DSGN	D. MARTIN	E. HAMMONS		D. MARTIN		D MARTIN	

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

WRIGHT STREET
STA. 80+00 TO 89+00

1"=40'
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-012
SHEET	83 of 91

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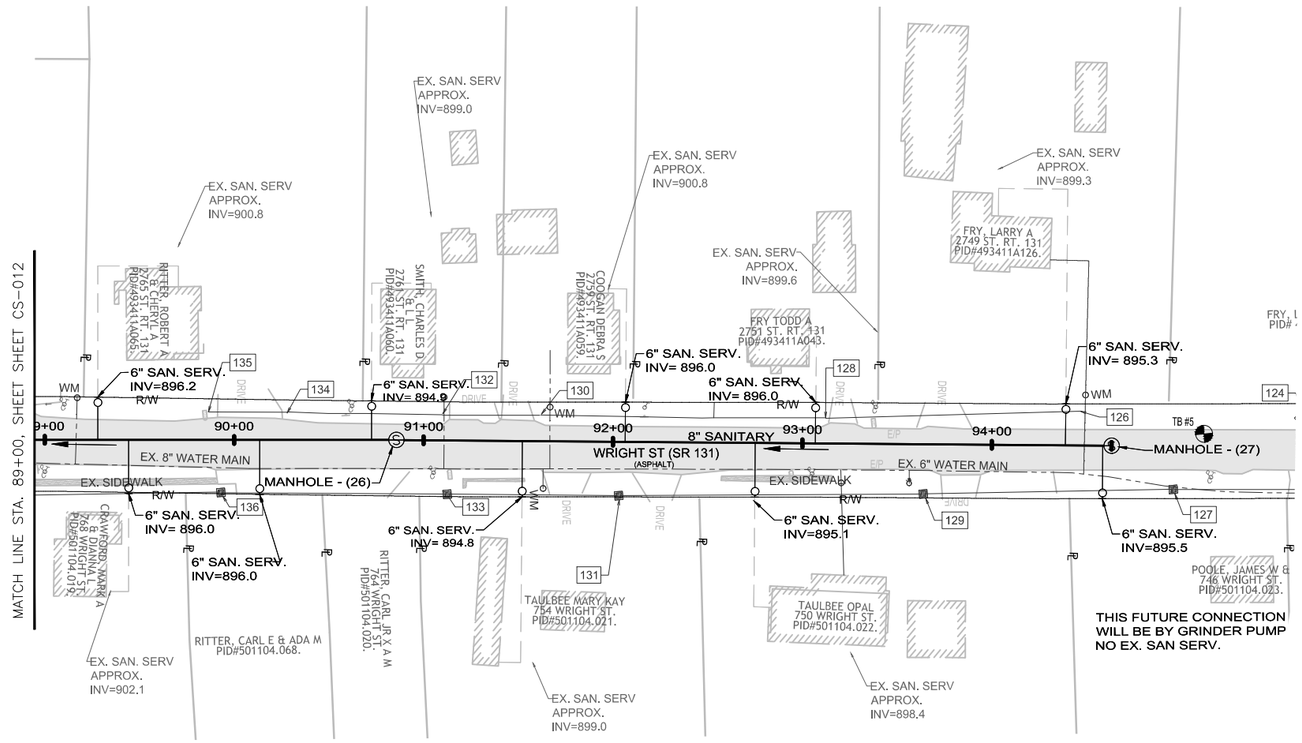
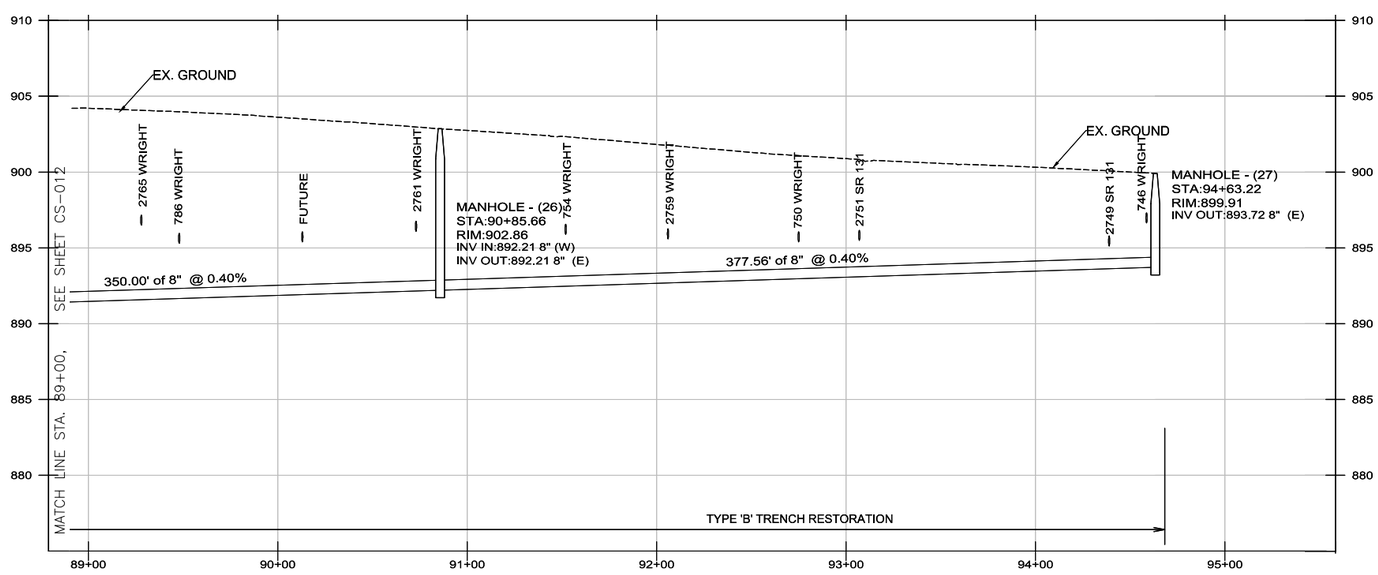
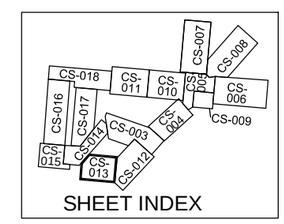
MANHOLE	NORTHING	EASTING
26	432,974.94	1,517,169.44
27	433,011.27	1,516,793.64



EXISTING STORM STRUCTURES

126	12" RCP STM INV=895.72
127	EX 3'x3' CB TOP= 898.19 INV W 15" CPP=895.72 INV E 15" CPP=895.79
128	12" RCP STM INV=898.44
129	EX 3'x3' CB TOP= 899.02 INV E 15" CPP=896.61 INV W 15" CPP=896.55
130	12" CPP STM TOP=900.82
131	EX 3'x3' CB TOP= 900.59 INV E 12" CPP=897.73 INV W 12" CPP=897.74
132	15" CPP STM TOP=900.40
133	EX 3'x3' CB TOP= 901.30 INV W=898.59 INV E=898.60
134	12" CPP STM TOP=900.40
135	12" CPP STM TOP=901.70
136	136 EX 3'x3' CB TOP= 902.51 INV E=899.79 INV W=899.79





NO.	DATE	REVISION	BY	APVD
DSGN	D. MARTIN	DR E. HAMMONS	CHK D. MARTIN	APVD D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

WRIGHT STREET STA. 89+00 TO 94+63

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-013
SHEET	84 of 91

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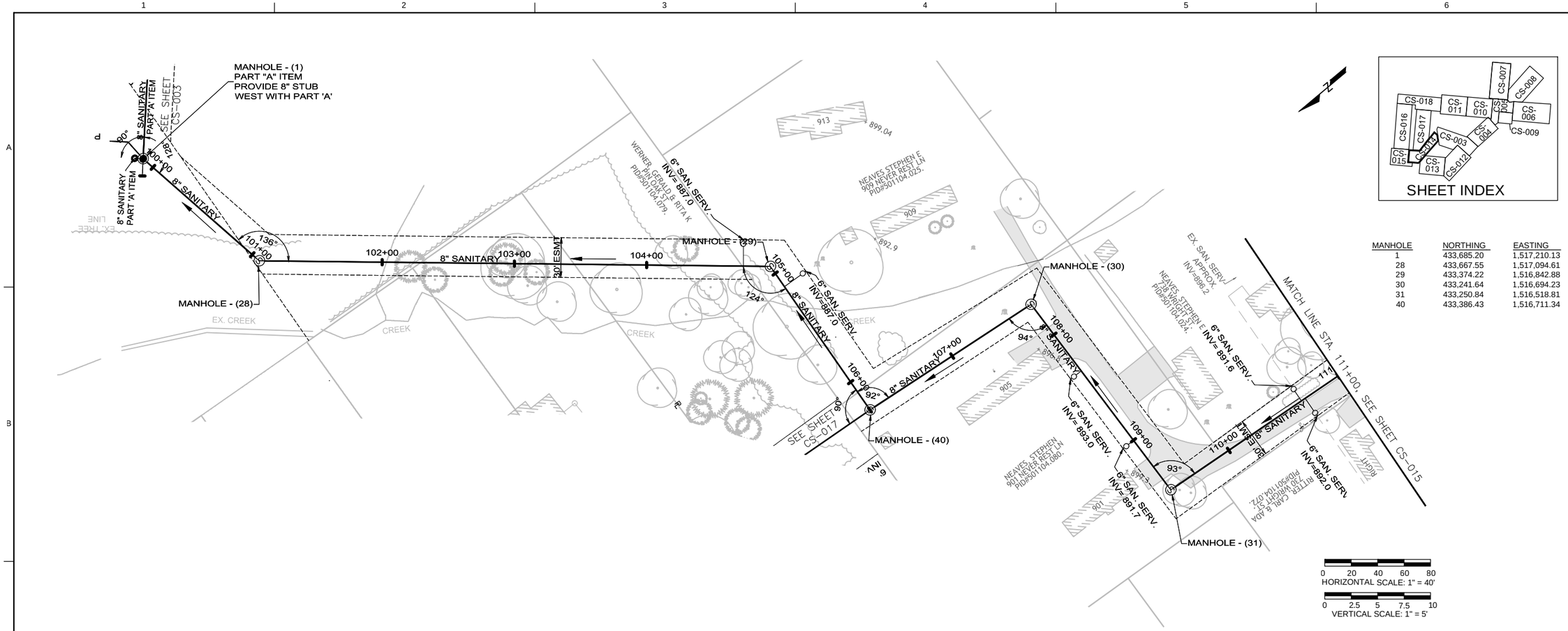
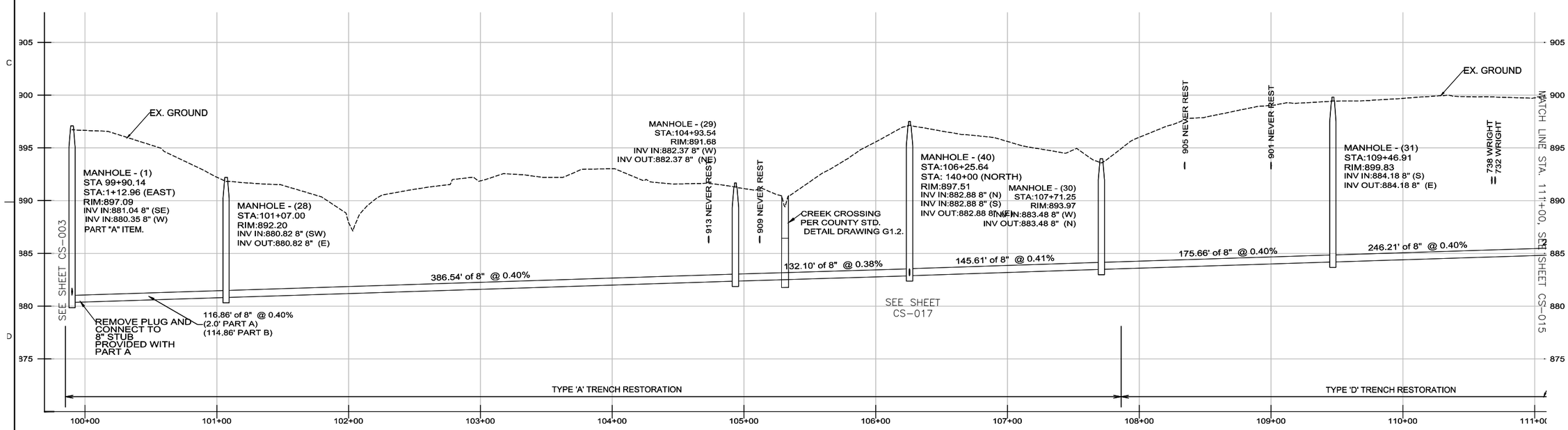


MANHOLE	NORTHING	EASTING
1	433,685.20	1,517,210.13
28	433,667.55	1,517,094.61
29	433,374.22	1,516,842.88
30	433,241.64	1,516,694.23
31	433,250.84	1,516,518.81
40	433,386.43	1,516,711.34

0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'

0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'



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NO.	DATE	DR	REVISION	CHK	APVD	BY	APVD
DSGN	D. MARTIN	E. HAMMONS		D. MARTIN		D. MARTIN	

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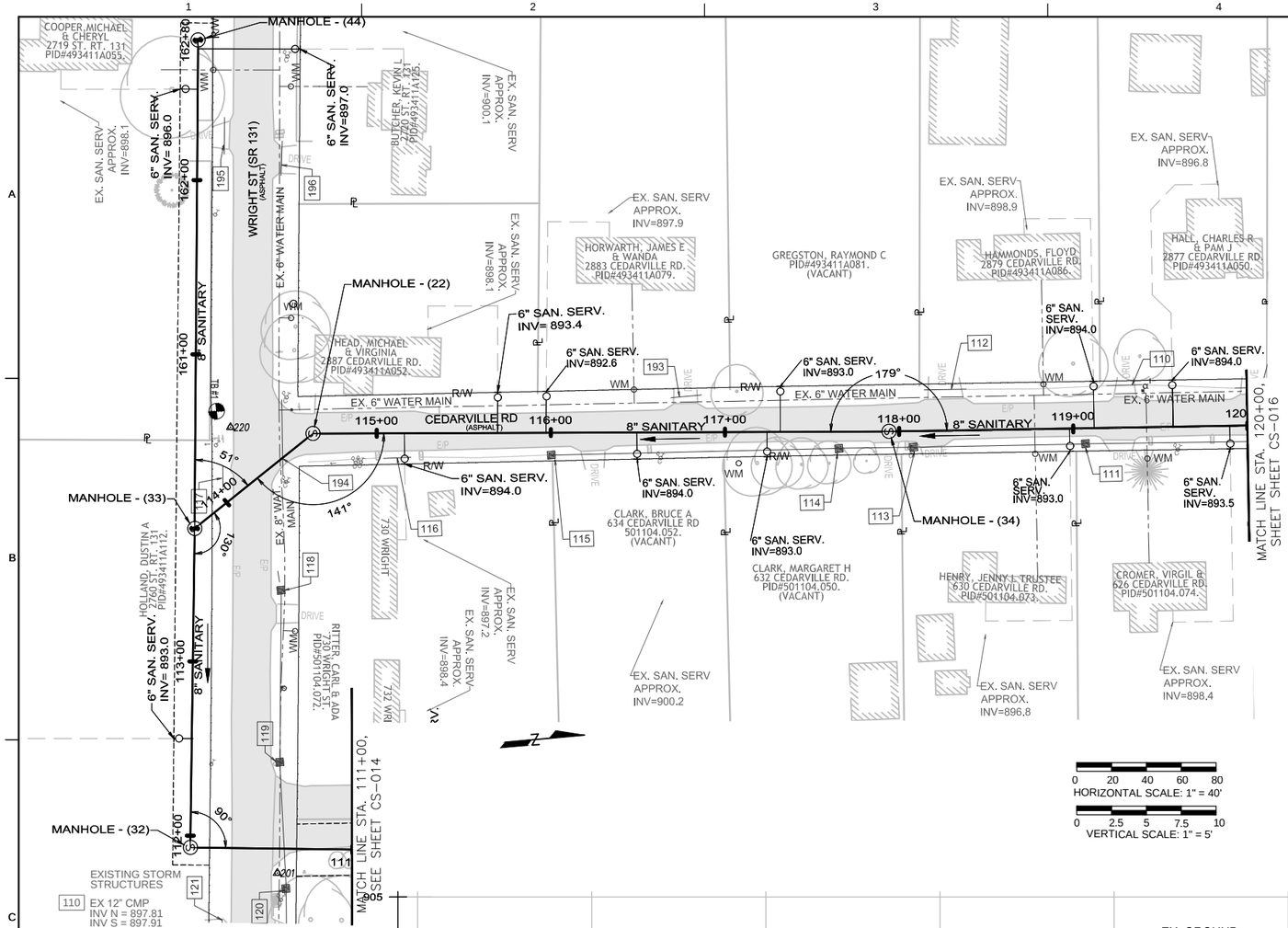
VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT &
COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES
DEPARTMENT, CLERMONT COUNTY, OHIO

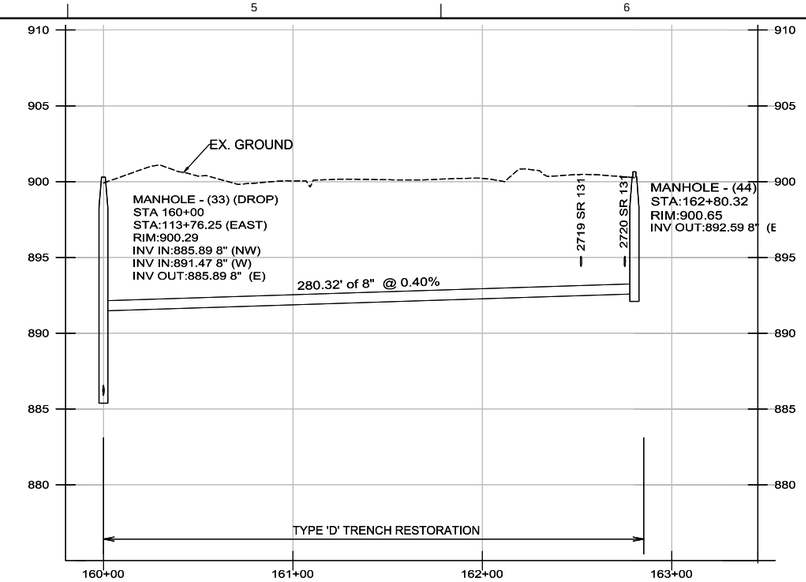
CONVEYANCE

PARK LAND AND PRIVATE LANDS
STA. 99+90 TO 111+00

1"=40'
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

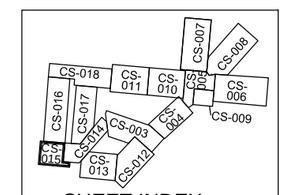
DATE	2016-05-20
PROJ	665163
DWG	CS-014
SHEET	85 of 91





MANHOLE	NORTHING	EASTING
32	433,005.87	1,516,494.11
33	433,024.50	1,516,311.93
34	433,426.49	1,516,291.53
44	4.33,051.14	1,516,032.88
22	433,096.93	1,516,263.62

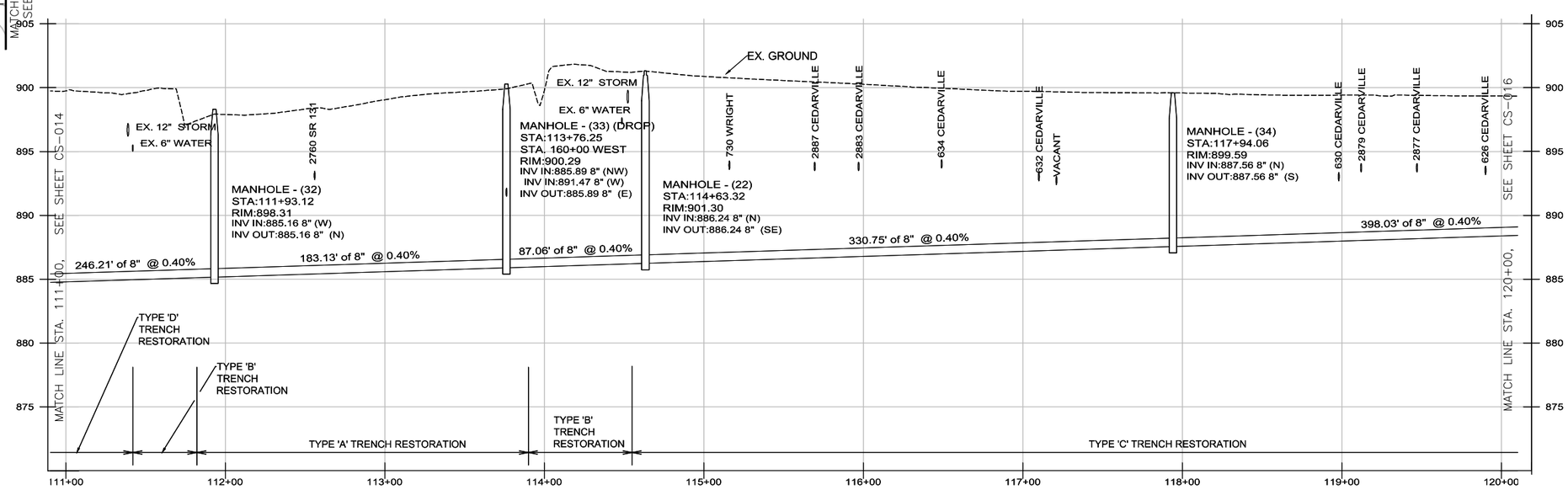
0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'
0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'



SHEET INDEX

EXISTING STORM STRUCTURES

110	EX 12" CMP INV N = 897.81 INV S = 897.91
111	EX. 3x3 CB TOP=898.39 12" CPP INV S=895.33 12" CPP INV N=895.27
112	EX 12" CMP INV N = 897.67 INV S = 897.78
113	EX. 3x3 CB TOP=898.76 12" CPP INV N=898.76 12" CPP INV S=895.79
114	EX 3'x3' CBTOP= 898.18 12" N. INV=895.76 12" S. INV=895.87
115	EX 3'x3' CBTOP= 898.60 INV=896.52
116	12" CMP STM TOP S=899.88 TOP N=899.75
117	24" RCP Stm TOP E=900.38 TOP W=900.13
118	EX 3'x3' CB TOP= 899.26 INV=897.19
119	EX 3'x3' CB TOP= 899.21 INV=896.57 INV=896.58
120	EX 3'x3' CB TOP= 898.45 INV=896.05 INV=896.08
194	15" CMP TOP E=898.98 TOP W=898.44
195	12" RCP TOP E = 899.96 TOP W = 900.48
196	12" RCP TOP E = 900.49 TOP W = 900.43



NO.	DATE	REVISION	BY	APVD
DSGN	D. MARTIN	DR E. HAMMONS	CHK D. MARTIN	APVD D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

WRIGHT ST. & CEDARVILLE RD. STA. 111+00 TO 120+00

1"=40'
VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-015
SHEET	86 of 91

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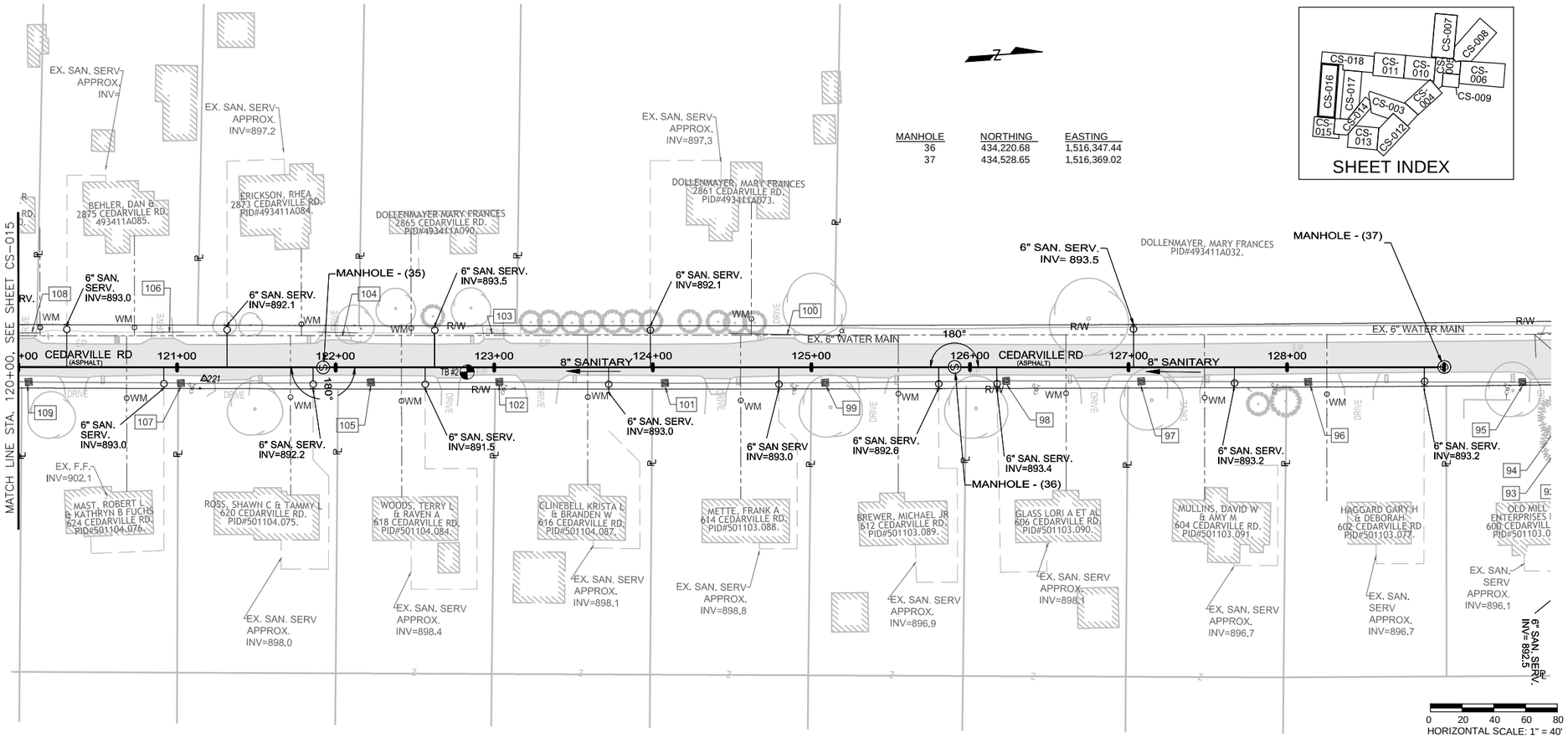


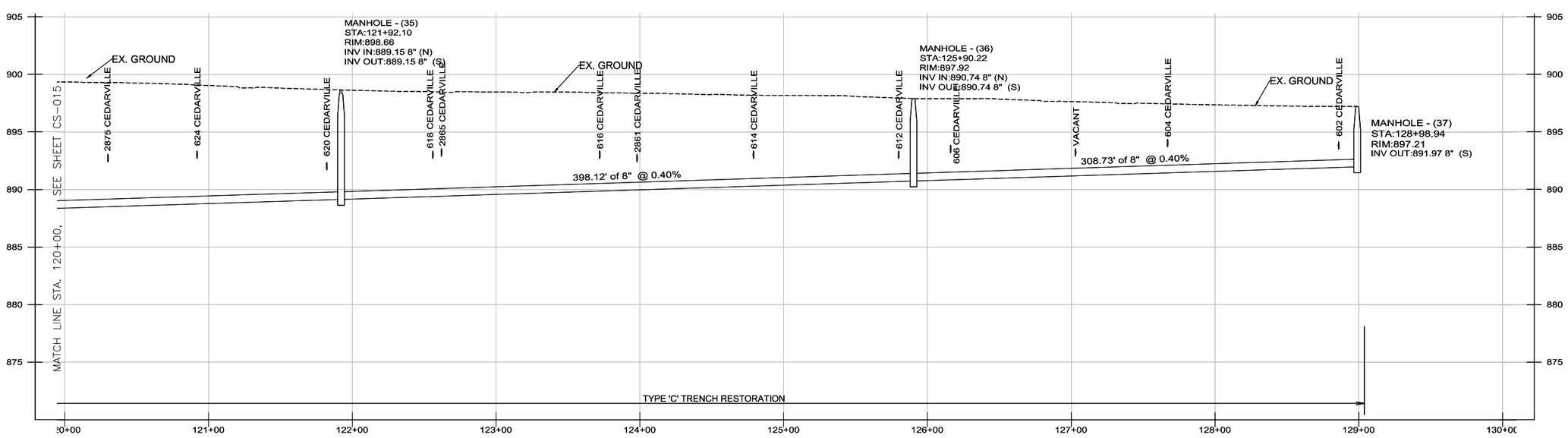
MANHOLE	NORTHING	EASTING
36	434,220.68	1,516,347.44
37	434,528.65	1,516,369.02

EXISTING STORM STRUCTURES

95	EX. 3x3 CB TOP=896.78 15" CPP INV N=890.96 15" CPP INV S=891.12
96	EX. 3x3 CB TOP=896.74 15" CPP INV N=891.88 15" CPP INV S=891.90
97	EX. 3x3 CB TOP=896.62 15" CPP INV N=892.31 15" CPP INV S=892.38
98	EX. 3x3 CB TOP=897.07 15" CPP INV N=892.72 15" CPP INV S=892.74
99	EX. 3x3 CB TOP=896.22 15" CPP INV N=893.13 15" CPP INV S=893.20
100	EX 15" PVC N INV= 896.00 S INV= 896.21
101	EX. 3x3 CB TOP=895.81 15" CPP INV N=893.56 15" CPP INV S=893.54
102	EX. 3x3 CB TOP=896.92 12" CPP INV N=893.82 12" CPP INV S=893.68
103	EX 15" PVC N INV= 896.00 S INV= 896.21
104	EX 12" CMP N INV=896.42 S INV=896.29
105	EX. 3x3 CB TOP=897.68 12" CPP INV N=896.42 12" CPP INV S=894.05
106	EX 12" CMP INV N =897.22 INV S =897.50
107	EX. 3x3 CB TOP=897.02 12" CPP INV N=894.62 12" CPP INV S=894.65
108	EX 12" CMP INV N =897.36 INV S =897.50
109	EX. 3x3 CB TOP=898.06 12" CPP INV N=894.98 12" CPP INV S=894.94

0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'

0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'



NO.	DATE	REVISION	BY	APVD

DSGN D. MARTIN | DR D. MARTIN | CHK E. HAMMONS | APVD D. MARTIN | D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

CONVEYANCE

CEDARVILLE ROAD
STA. 120+00 TO 128+99

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-016
SHEET	87 of 91

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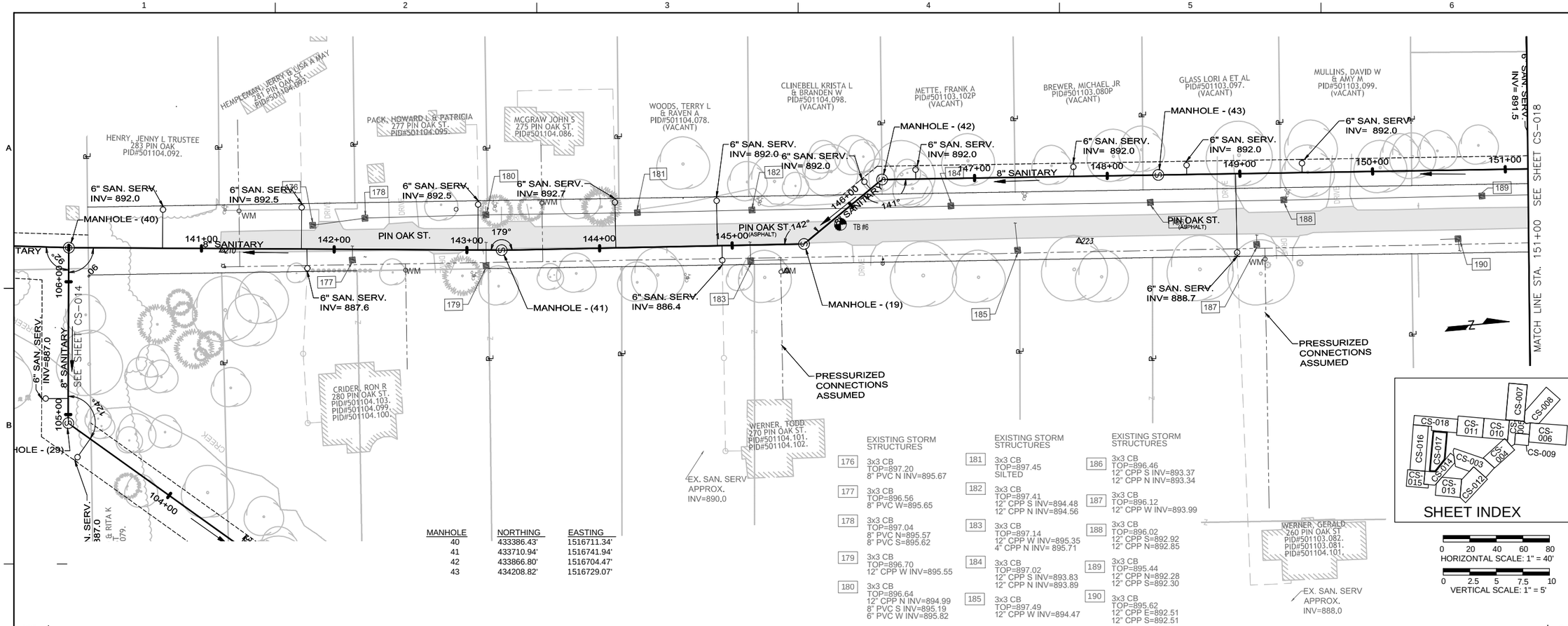
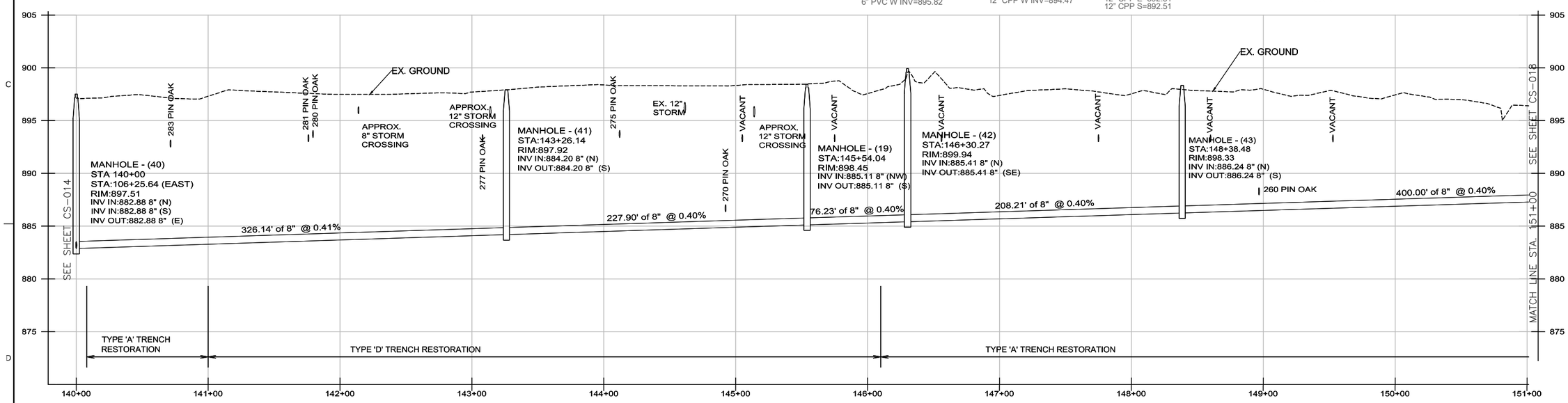


MANHOLE	NORTHING	EASTING
40	433386.43'	1516711.34'
41	433710.94'	1516741.94'
42	433866.80'	1516704.47'
43	434208.82'	1516729.07'

EXISTING STORM STRUCTURES

176	3x3 CB TOP=897.20 8" PVC N INV=895.67
177	3x3 CB TOP=896.56 8" PVC W=895.65
178	3x3 CB TOP=897.04 8" PVC N=895.57 8" PVC S=895.62
179	3x3 CB TOP=896.70 12" CPP W INV=895.55
180	3x3 CB TOP=896.64 12" CPP N INV=894.99 8" PVC S INV=895.19 6" PVC W INV=895.82
181	3x3 CB TOP=897.45 SILTED
182	3x3 CB TOP=897.41 12" CPP S INV=894.48 12" CPP N INV=894.56
183	3x3 CB TOP=897.14 12" CPP W INV=895.35 4" CPP N INV= 895.71
184	3x3 CB TOP=897.02 12" CPP S INV=893.83 12" CPP N INV=893.89
185	3x3 CB TOP=897.49 12" CPP W INV=894.47
186	3x3 CB TOP=896.46 12" CPP S INV=893.37 12" CPP N INV=893.34
187	3x3 CB TOP=896.12 12" CPP W INV=893.99
188	3x3 CB TOP=896.02 12" CPP S=892.92 12" CPP N=892.85
189	3x3 CB TOP=895.44 12" CPP N=892.28 12" CPP S=892.30
190	3x3 CB TOP=895.62 12" CPP E=892.51 12" CPP S=892.51



NO.	DATE	REVISION	BY	APVD

DR: D. MARTIN | CHK: E. HAMMONS | APVD: D. MARTIN | APVD: D. MARTIN

VILLAGE OF NEWTONSVILLE
WASTEWATER TREATMENT PLANT & COLLECTION SYSTEM - PART B
CLERMONT COUNTY WATER RESOURCES DEPARTMENT, CLERMONT COUNTY, OHIO

Clermont County

ch2m

Consultants, LLC
Engineers and Surveyors
4815 Cornell Road
Cincinnati, Ohio 45241

CONVEYANCE

ACCESS DRIVE
STA. 140+00 TO 151+00

1"=40'

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING.
0 1"

DATE	2016-05-20
PROJ	665163
DWG	CS-017
SHEET	88 of 91

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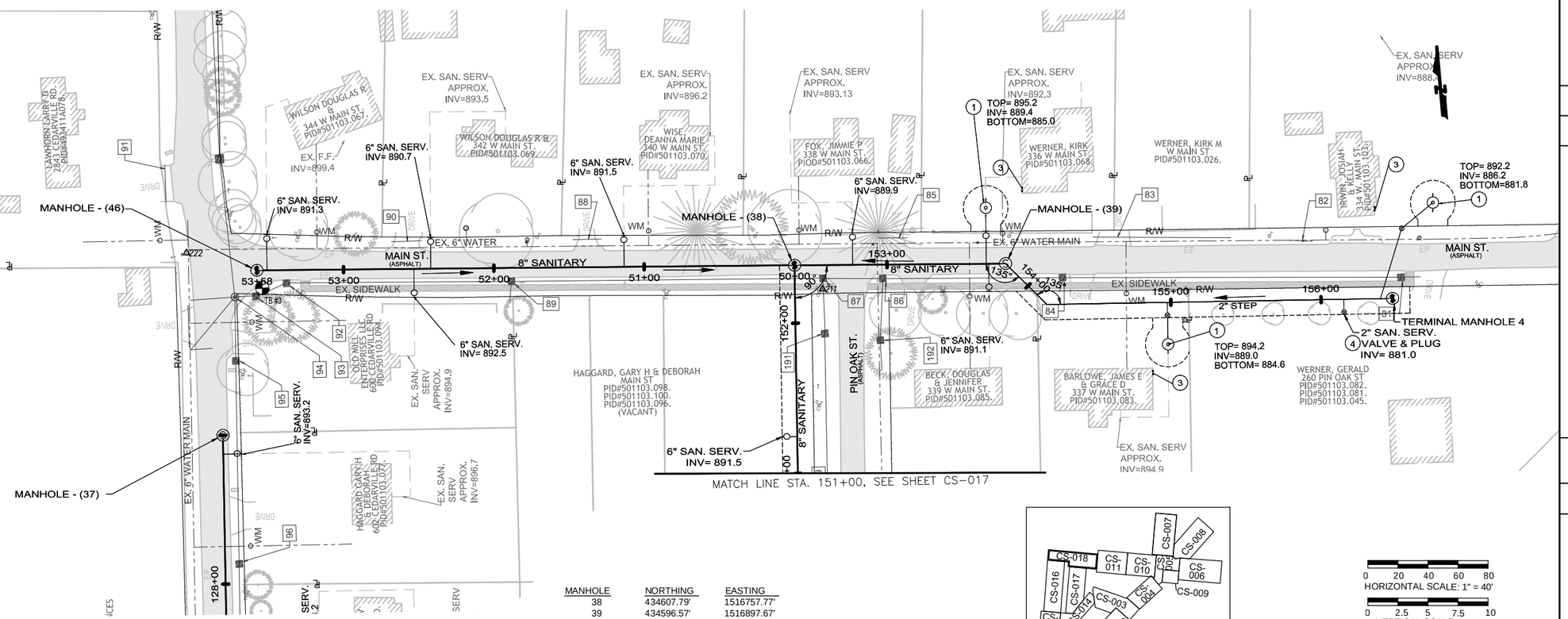
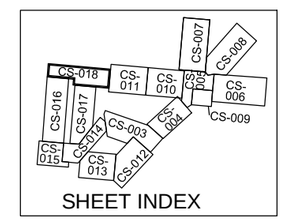
EXISTING STORM STRUCTURES

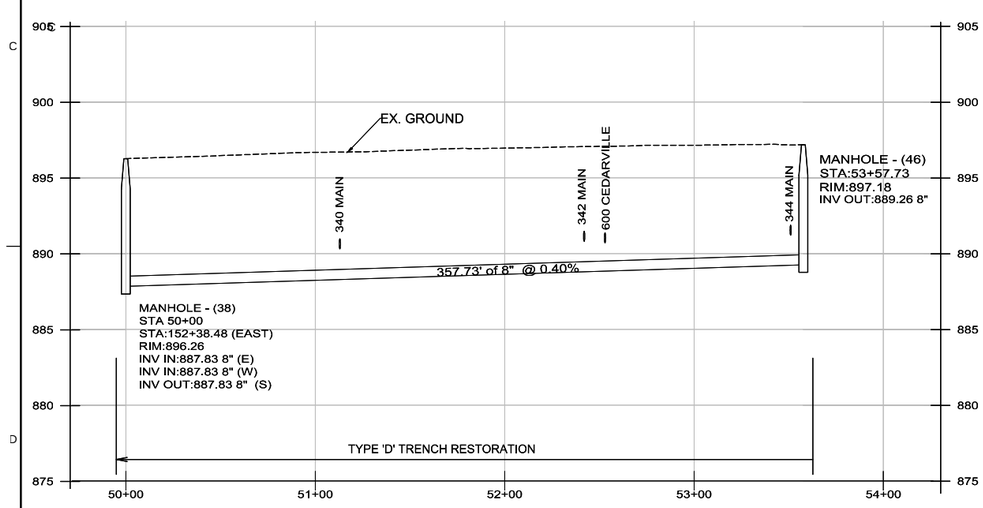
81	2x2 CB TOP=887.59 INV E 18" CPP=883.56 INV W 18" CPP=883.70
82	CATCH BASIN TOP=891.03 12" RCP W INV=889.70 12" RCP E INV=889.58
83	12" CMP INV W = 893.50 INV E = 891.87
84	2x2 CB TOP=894.39 INV W 18" CPP=889.50 INV E 18" CPP=889.47 INV SW 6" CPP=893.68
85	12" RCP INV E=894.36 INV W=894.36
86	3x3 CB TOP=895.25 18" RCP INV W=891.06 18" RCP INV E=891.11 12" CPP INV S=891.48
87	3x3 CB TOP=895.51 18" RCP INV W=891.38 18" RCP INV E=891.35 12" CPP INV S=891.51
88	12" CMP INV W=895.51 INV E=895.43
89	3x3 CB TOP=896.10 18" RCP INV W=892.88 18" RCP INV E=892.84 12" CPP INV S=892.95
90	12" RCP INV E=895.72 INV W=895.90
91	12" RCP INV N=895.20 INV S=895.31
92	3x3 CB TOP=896.64 18" RCP INV W=893.83 18" RCP INV E=893.78
93	EX. 3x3 CB TOP=896.64 18" CPP INV W=893.83 18" CPP INV E=893.78
94	Storm MH TOP=896.80
95	EX. 3x3 CB TOP=895.79 15" CPP INV N=890.96 15" CPP INV S=891.12
96	EX. 3x3 CB TOP=896.75 15" CPP INV N=891.88 15" CPP INV S=891.90

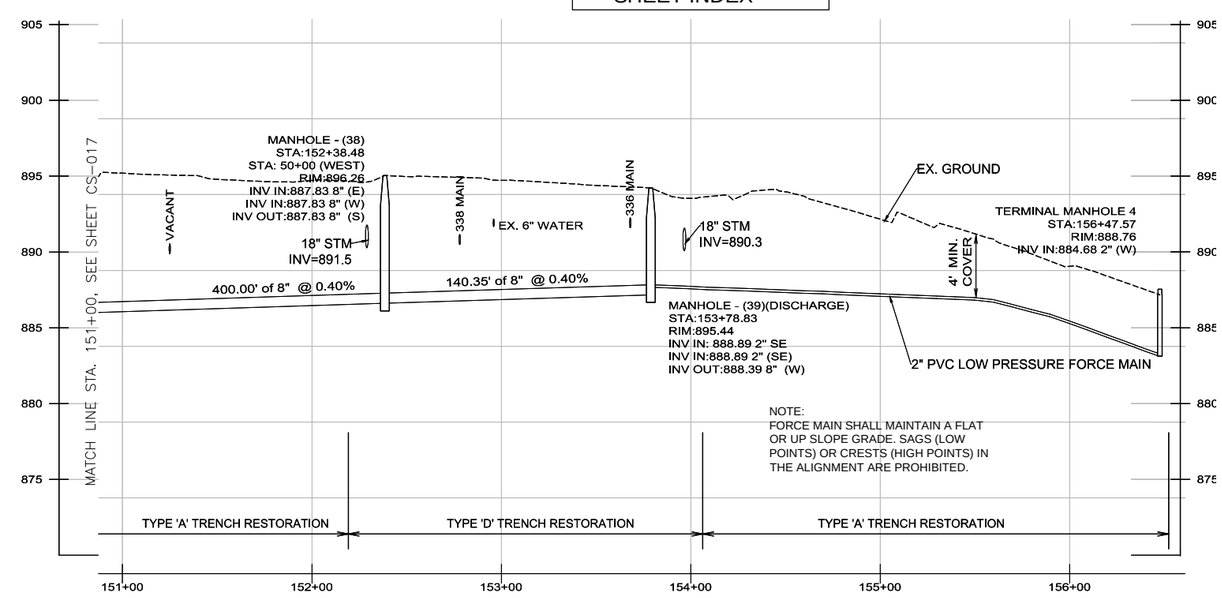


MANHOLE	NORTHING	EASTING
38	434607.79'	1516757.77'
39	434596.57'	1516897.67'
47	434635.89'	1516401.14'
TERMINAL 4	434550.85'	1517152.19'



0 20 40 60 80
HORIZONTAL SCALE: 1" = 40'
0 2.5 5 7.5 10
VERTICAL SCALE: 1" = 5'





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DSGN	D. MARTIN	DR E. HAMMONS	CHK D. MARTIN	APVD D. MARTIN

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