

CALEDONIA ROAD

GENERAL SEWER REHABILITATION

PROJECT NO. 2014153

MSD OF BUNCOMBE COUNTY

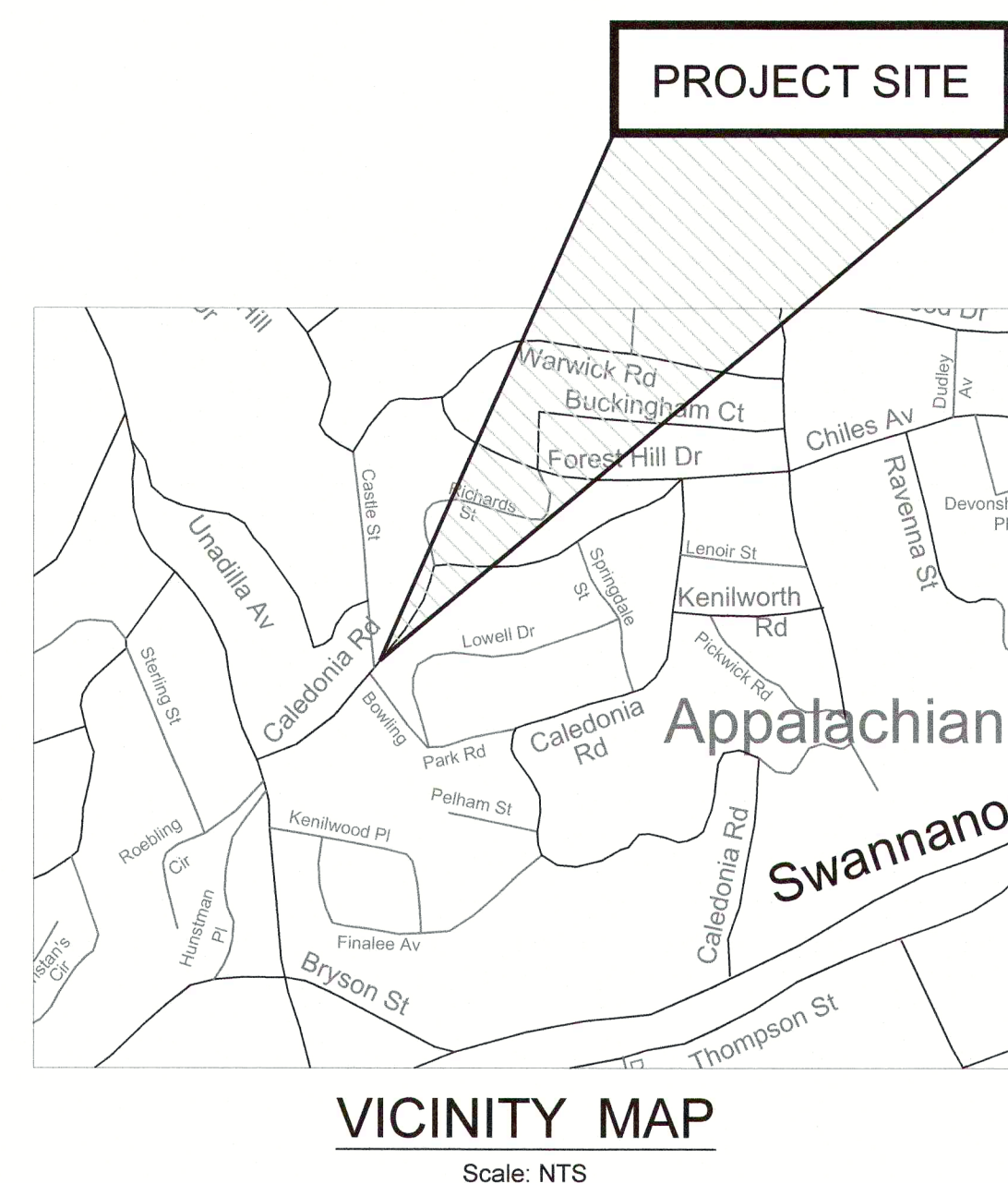
INDEX OF DRAWINGS

SHEET NO.	DESCRIPTION
C-1	INDEX OF DRAWINGS AND VICINITY MAP
PL-1	SANITARY SEWER OVERALL & SURFACE REPAIR PLAN
PL-2	SANITARY SEWER PLAN & PROFILE LINE "A"
PL-3	SANITARY SEWER PLAN & PROFILE LINE "B" & "C"
PL-4	SANITARY SEWER PLAN & PROFILE LINE "D" & "E"
D-1	SANITARY SEWER DETAILS



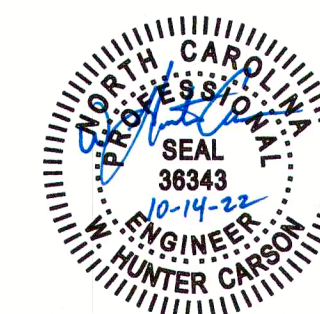
LEGEND

+	FFE = FINISHED FLOOR ELEV.	1	PROPOSED ABANDON PLUG
■	CM = CONCRETE MONUMENT	2	PROPOSED MANHOLE NUMBER
■	CMRW CONCRETE MONUMENT RIGHT OF WAY	CO	PROPOSED ABANDON SEWER MANHOLE
□	DOT MON = DOT MONUMENT	CO	PROPOSED CLEANOUT
●	PK FIND = PK NAIL FOUND	●	EXISTING SANITARY SEWER MANHOLE
●	EIP = EXISTING IRON PIN FOUND	●	EXISTING CLEANOUT
●	REBAR FOUND	●	SAT DISH = SATELLITE
+	SIGN	●	WW = WATER VALVE
+	GAS VALVE	●	WELL
+	GAS METER	●	FH = FIRE HYDRANT
○	TELEPHONE MANHOLE	●	WM = WATER METER
○	TELEPHONE PEDESTAL	+	SPIGOT
▲	STAKE	+	UTILITY POLE
▲	TRAVERSE	+	GUY WIRE
▲	SHRUB	+	ELECTRIC JUNCTION BOX
▲	TREE	+	ELECTRIC MANHOLE
		+	LIGHT POLE
		+	CURB INLET
		+	STORM MANHOLE
		+	CATCH BASIN
---	PROPOSED SANITARY SEWER LINE		
---	EXISTING SANITARY SEWER LINE		
---	EXISTING PERMANENT EASEMENT		
---	PROPOSED PERMANENT EASEMENT		
---	PROPOSED TEMPORARY EASEMENT		
---	PROPOSED SILT FENCE LINE		
---	PROPOSED SURFACE REPAIR		
---	PROPERTY LINE		
---	RIGHT OF WAY LINE		
---	EXISTING WATER LINE		
---	EXISTING ROCK WALL LINE		
---	EXISTING STREAM/CREEK		
---	EXISTING GAS LINE		
---	EXISTING OVER HEAD UTILITY LINE		
---	EXISTING UNDERGROUND UTILITY		
---	EXISTING STORM DRAINAGE PIPE		
---	EXISTING FENCE LINE		
---	DITCH LINE		
---	TOE/TOP OF SLOPE		
---	TREE LINE		
---	SHRUB LINE		
---	CONCRETE		
---	GRAVEL AREA (RIP-RAP)		
---	ASPHALT ROADWAY		
---	EXISTING BUILDINGS		
---	EXISTING MAJOR CONTOUR		
---	EXISTING MINOR CONTOUR		

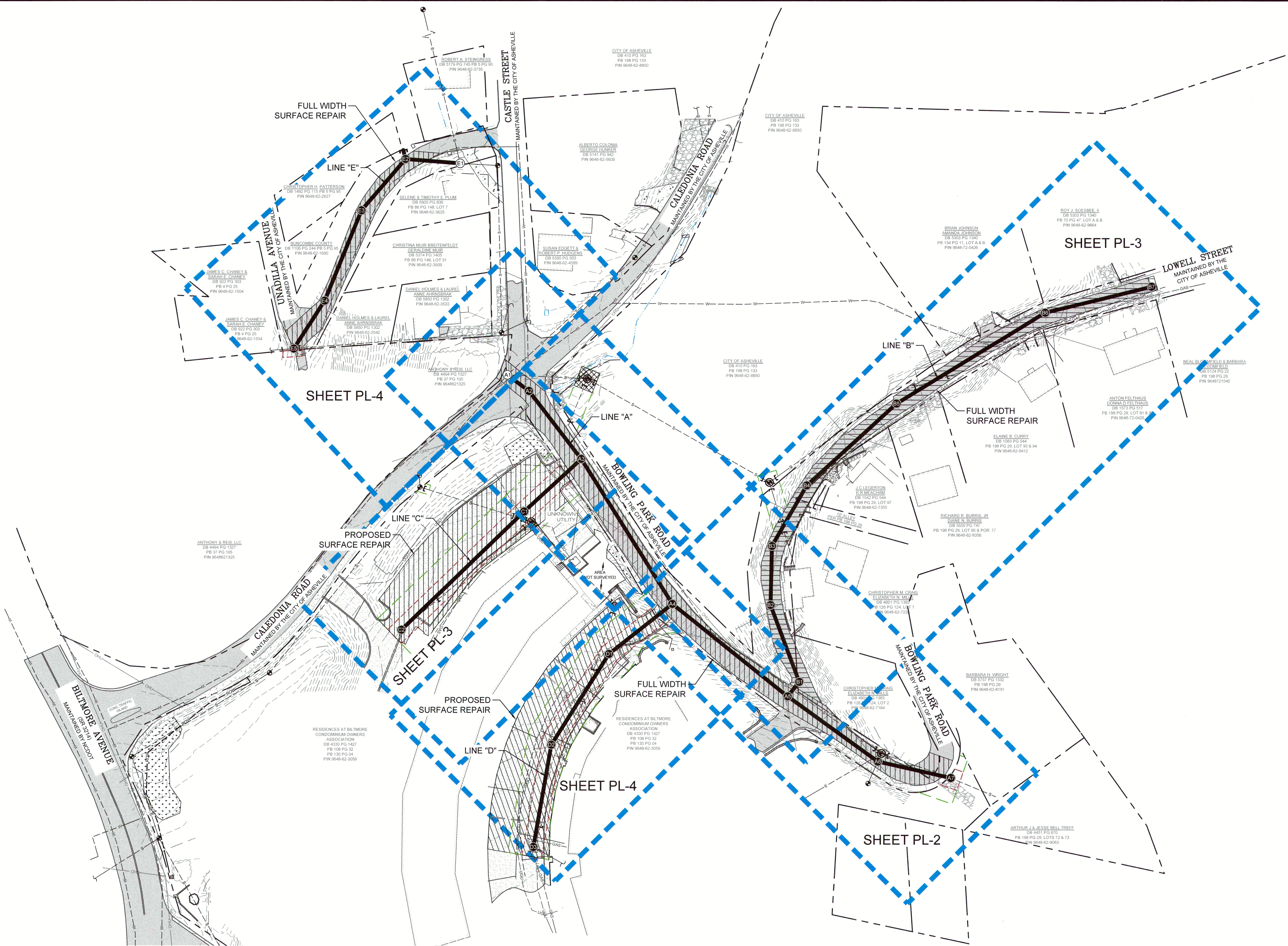
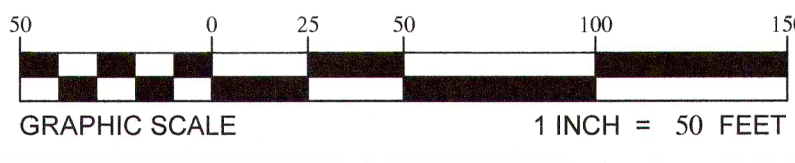


GENERAL NOTES:

- ALL WORK ON THIS PROJECT SHALL COMPLY WITH THE CURRENT STANDARD DETAILS AND SPECIFICATIONS OF THE METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY. SPECIAL CONDITIONS AND SPECIAL PROVISIONS MAY APPLY TO THIS PROJECT - SEE SPECIFICATIONS.
- ALL WORK SHALL COMPLY WITH FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS, AS MAY BE APPLICABLE TO THIS PROJECT AND THE WORK DONE HEREUNDER.
- WHERE FEDERAL, STATE, OR LOCAL LAWS REQUIRE THAT A PERMIT BE ISSUED AND OBTAINED FOR WORK DONE UNDER THIS PROJECT, ALL WORK PERFORMED BY THE CONTRACTOR SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE TERMS AND CONDITIONS SET FORTH IN THE PERMIT.
- ANY MODIFICATIONS TO THESE CONSTRUCTION PLANS OR SPECIFICATIONS SHALL BE APPROVED BY THE MSD PROJECT ENGINEER.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO KEEP THE SEWER AND ALL OTHER UTILITIES IN SERVICE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR REPAIRS OF ANY KIND FOR DAMAGES RESULTING FROM THE CONTRACTOR'S CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL LOCATE ALL SERVICES CURRENTLY SERVED BY THE EXISTING SEWER AND RECONNECT TO THE NEW SEWER, INSTALLING A CLEANOUT ASSEMBLY AS REQUIRED (SEE DETAIL).
- THE CONTRACTOR SHALL RESTORE ALL STREETS, PROPERTIES, AND IMPROVEMENTS TO AS GOOD OR BETTER CONDITION THAN EXISTED PRIOR TO CONSTRUCTION.
- PROPERTY LINES SHOWN ON PLANS ARE APPROXIMATE ONLY. PROPERTY MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE RESET BY A LICENSED NC PROFESSIONAL LAND SURVEYOR.
- DESIGN BASED ON SURVEY INFORMATION PROVIDED BY COLE SURVEY DESIGN 828.251.7025.

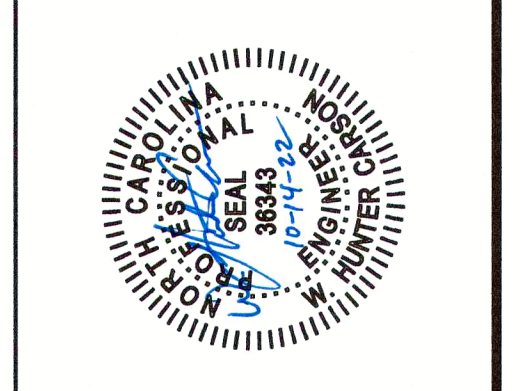


\\COLLECTIONS\STAFF\JESSE_BELL\Projects\201112\20111201\Sanitary Sewer\Sanitary Sewer Overall & Surface Repair Plan - 20111201\DWG\Sanitary Sewer Overall & Surface Repair Plan.dwg, 10/17/2022, 11:59 AM, 0000



N.C. GRID NORTH
NAD83(2011) NAVD88

Metropolitan Sewerage District
of Buncombe County
CALEDONIA ROAD
Sanitary Sewer Overall
& Surface Repair Plan



No.	DESCRIPTION	DATE
1.	BID SET	09-16-2022
2.	ADDENDUM 1	10-13-2022

MSD

Metropolitan Sewerage District • Buncombe County

Engineering Division

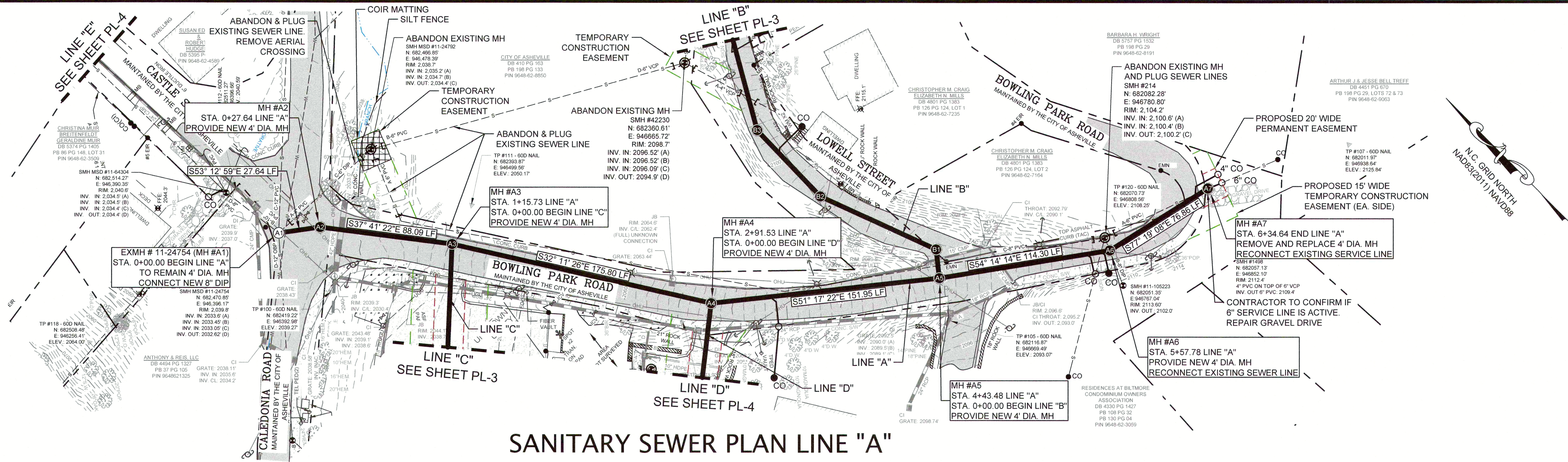
PL-1

DATE: 04/13/2021
SCALE: 1"=50'

APPROVED BY: WJC
DRAWN BY: WJC

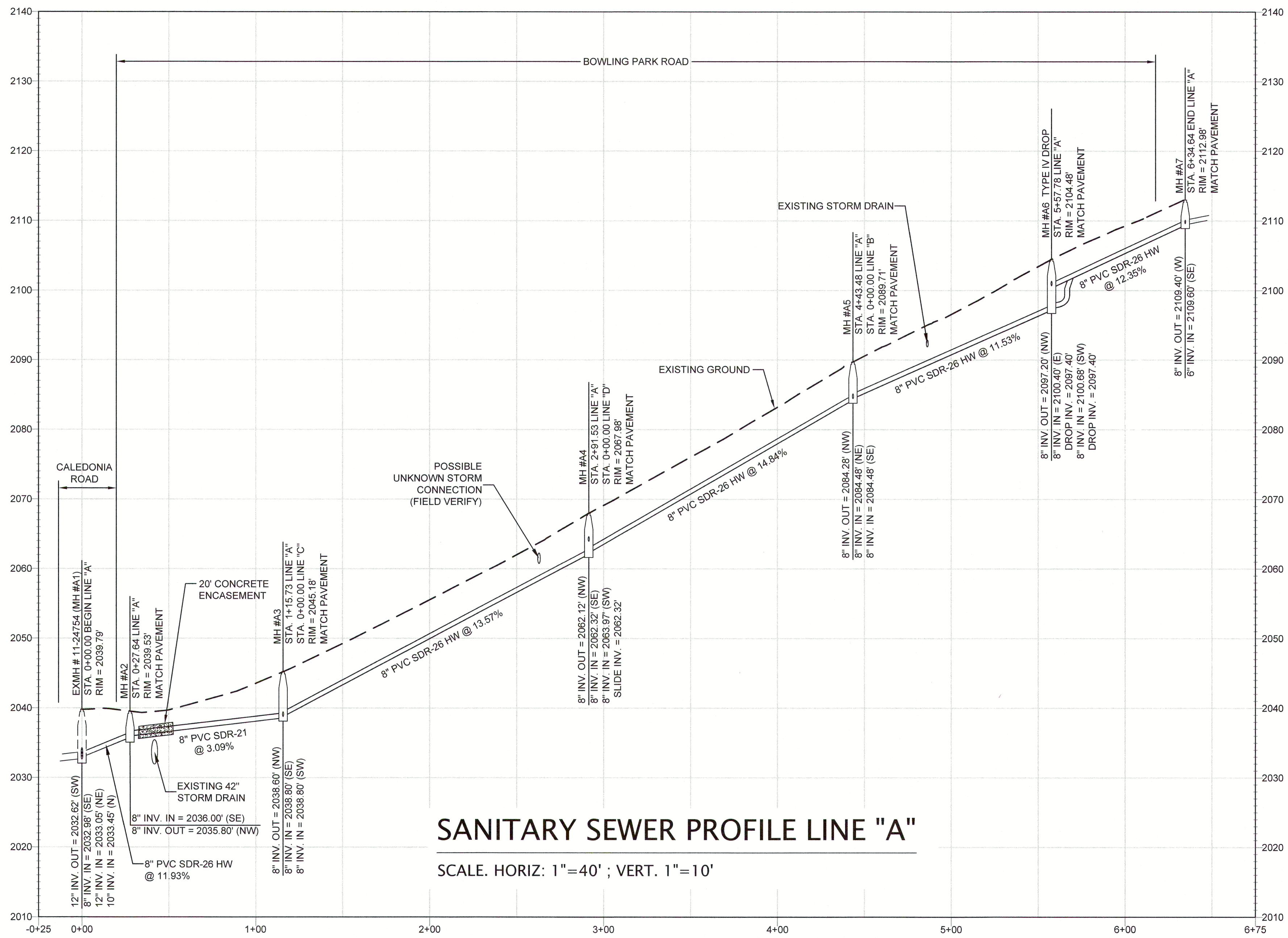
SANITARY SEWER OVERALL & SURFACE REPAIR PLAN

SCALE: 1"=50'



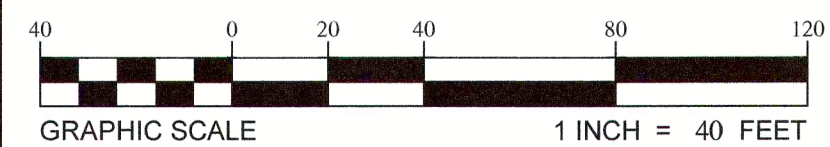
SANITARY SEWER PLAN LINE "A"

SCALE: 1"=40'

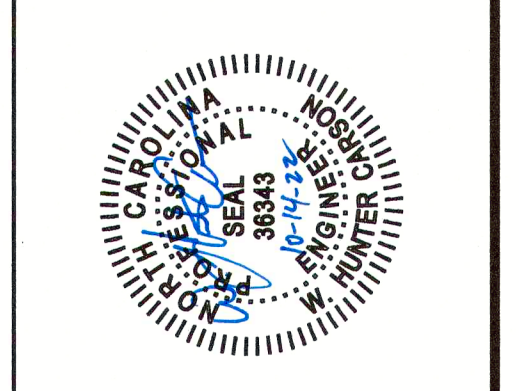


SANITARY SEWER PROFILE LINE "A"

SCALE: HORIZ: 1"=40'; VERT. 1"=10'



Metropolitan Sewerage District
of Buncombe County
CALEDONIA ROAD
Sanitary Sewer Plan & Profile LINE "A"

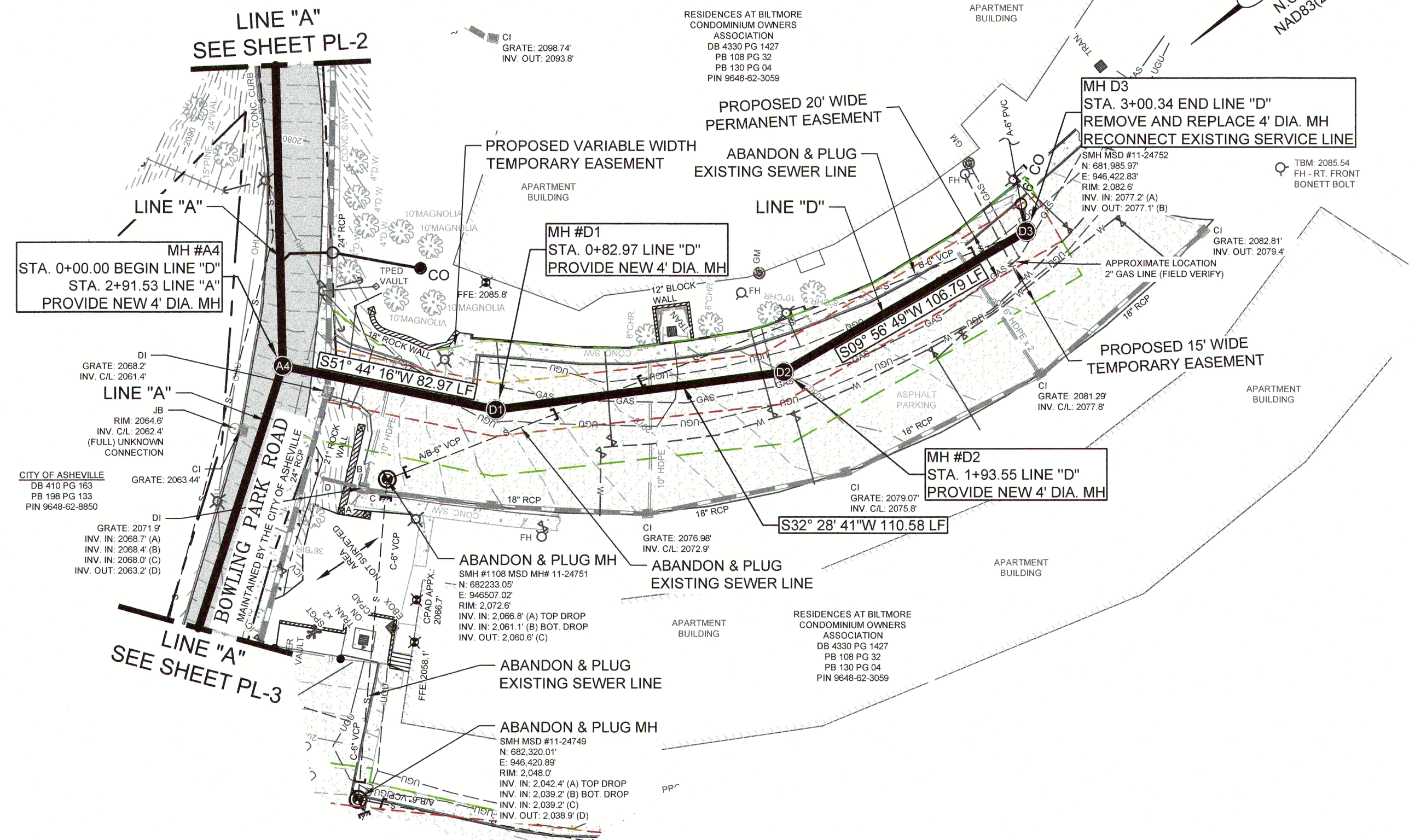


No.	DESCRIPTION	DATE
1.	BID SET	09-16-2022
2.	ADDENDUM 1	10-13-2022

MSD
Metropolitan Sewerage District of Buncombe County

Engineering Division

PL-2
DRAWN: WMC
CHECKED BY: WMC
APPROVED: WMC
DATE: 04/13/2021
SCALE: 1"=40'

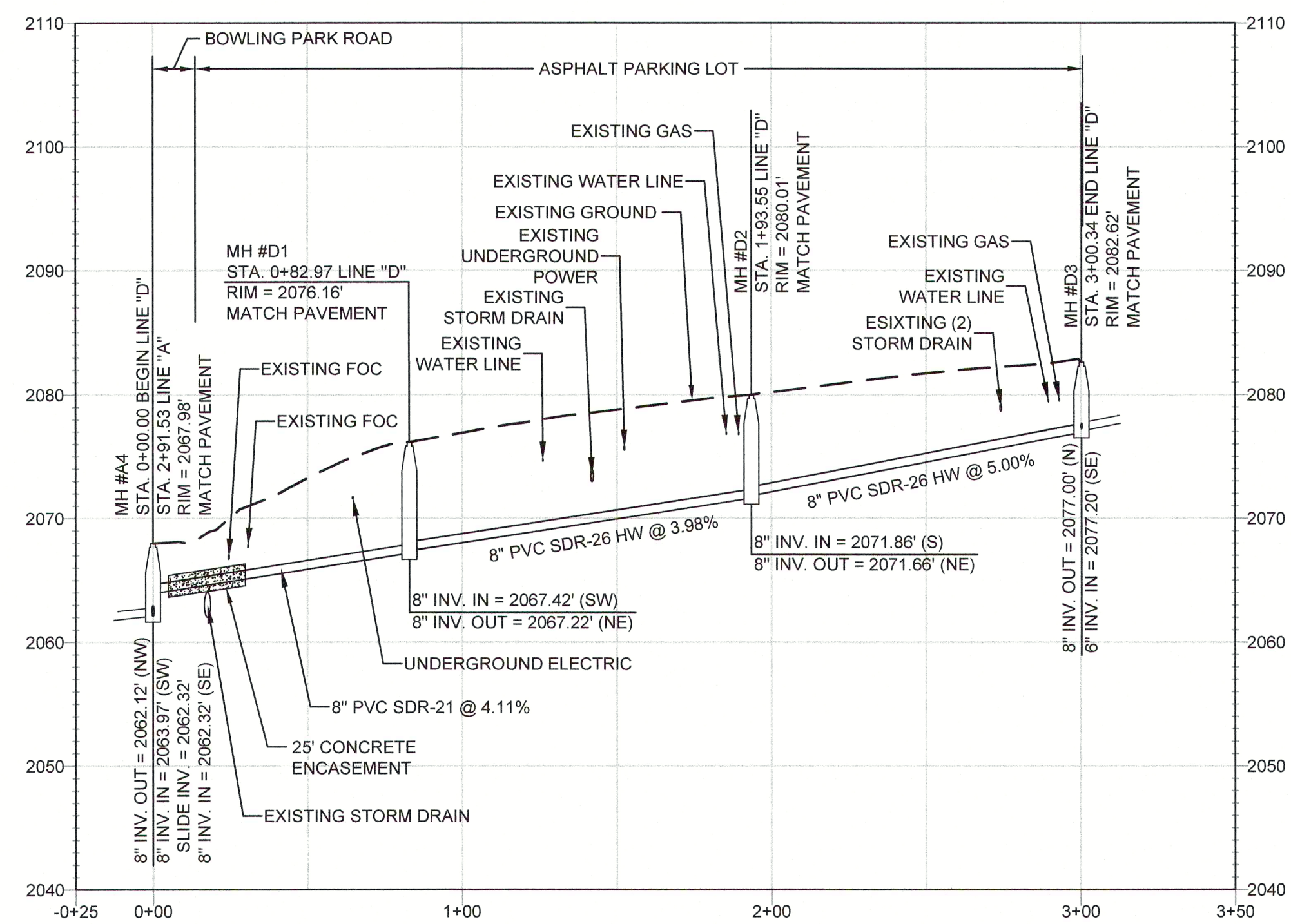


SANITARY SEWER PLAN LINE "D"

SCALE: 1"=40'

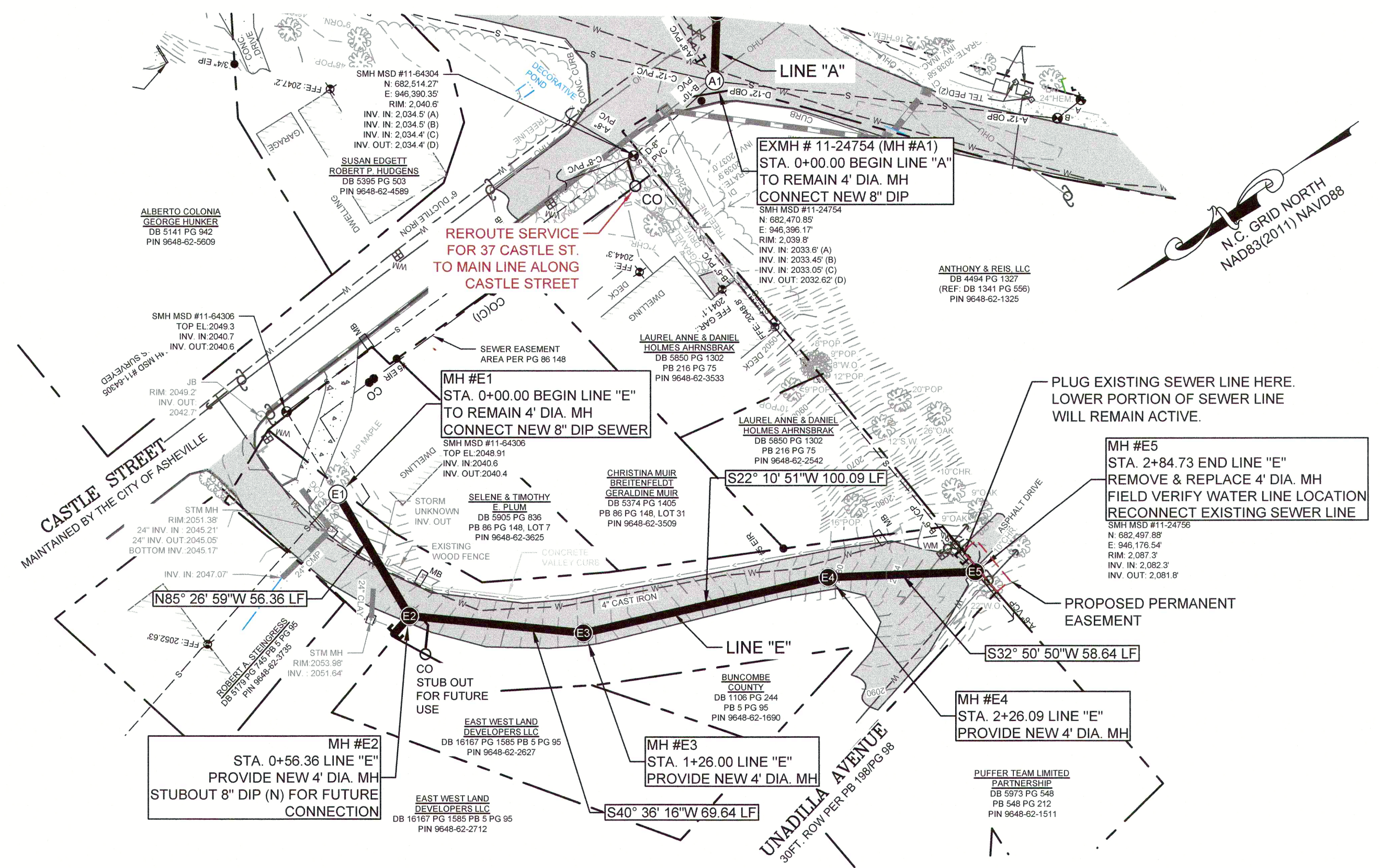
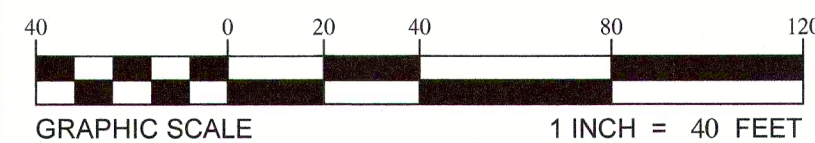
NOTE:

HEAVY UTILITIES PRESENT IN THE VICINITY OF PROPOSED LINE "D". SPOT DIG FOR ALL UTILITIES AND VERIFY DEPTH. IF ANY CONFLICT, CONTACT ENGINEER IMMEDIATELY.



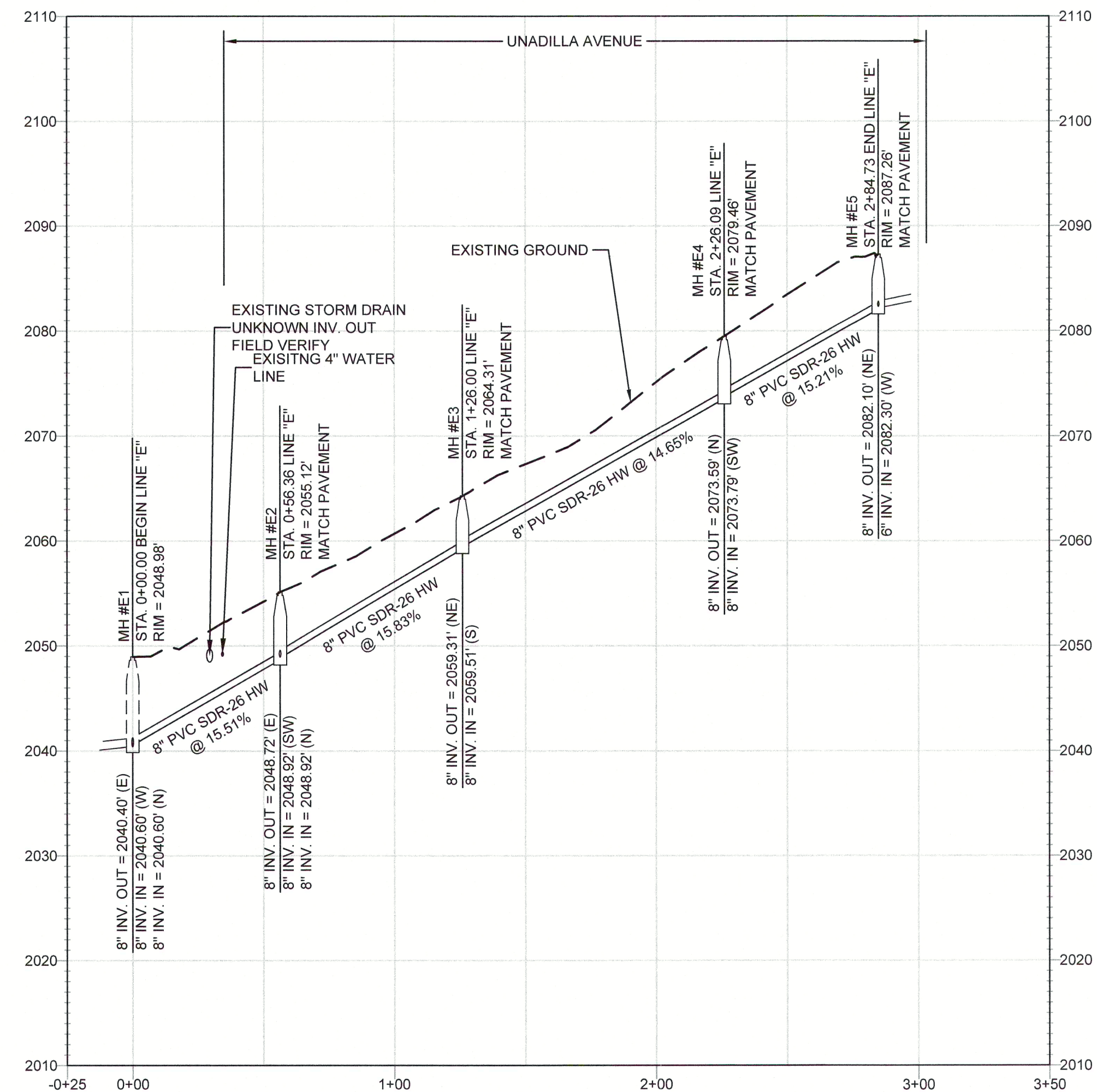
SANITARY SEWER PROFILE LINE "D"

SCALE. HORIZ: 1"=40'; VERT. 1"=10'



SANITARY SEWER PLAN LINE "E"

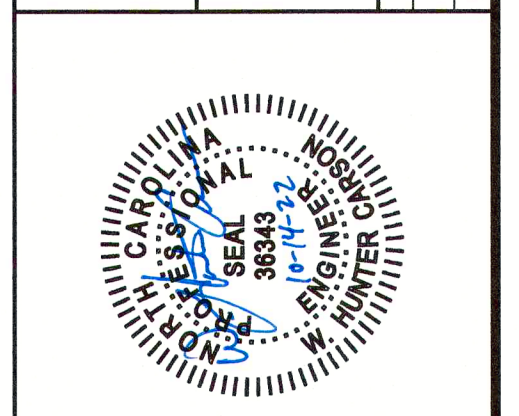
SCALE: 1"=40'



SANITARY SEWER PROFILE LINE "E"

SCALE. HORIZ: 1"=40'; VERT. 1"=10'

Metropolitan Sewerage District
of Buncombe County
CALEDONIA ROAD
Sanitary Sewer Plan & Profile
Lines "D" & "E"



No.	DESCRIPTION	DATE
1.	ADDENDUM 1 1. BID SET	09-16-2022
2.		10-13-2022

MSD

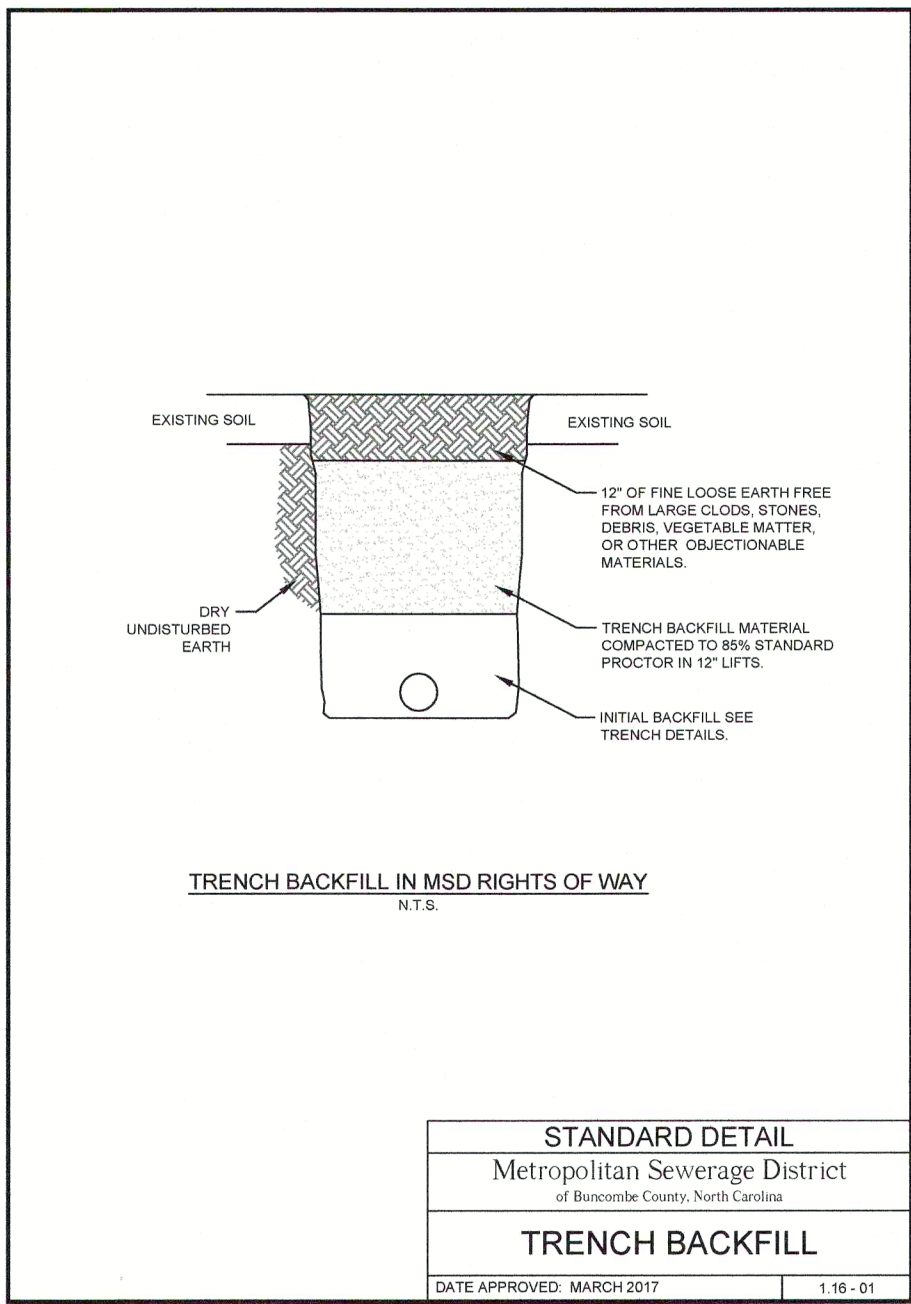
Metropolitan Sewerage District of Buncombe County

Engineering Division

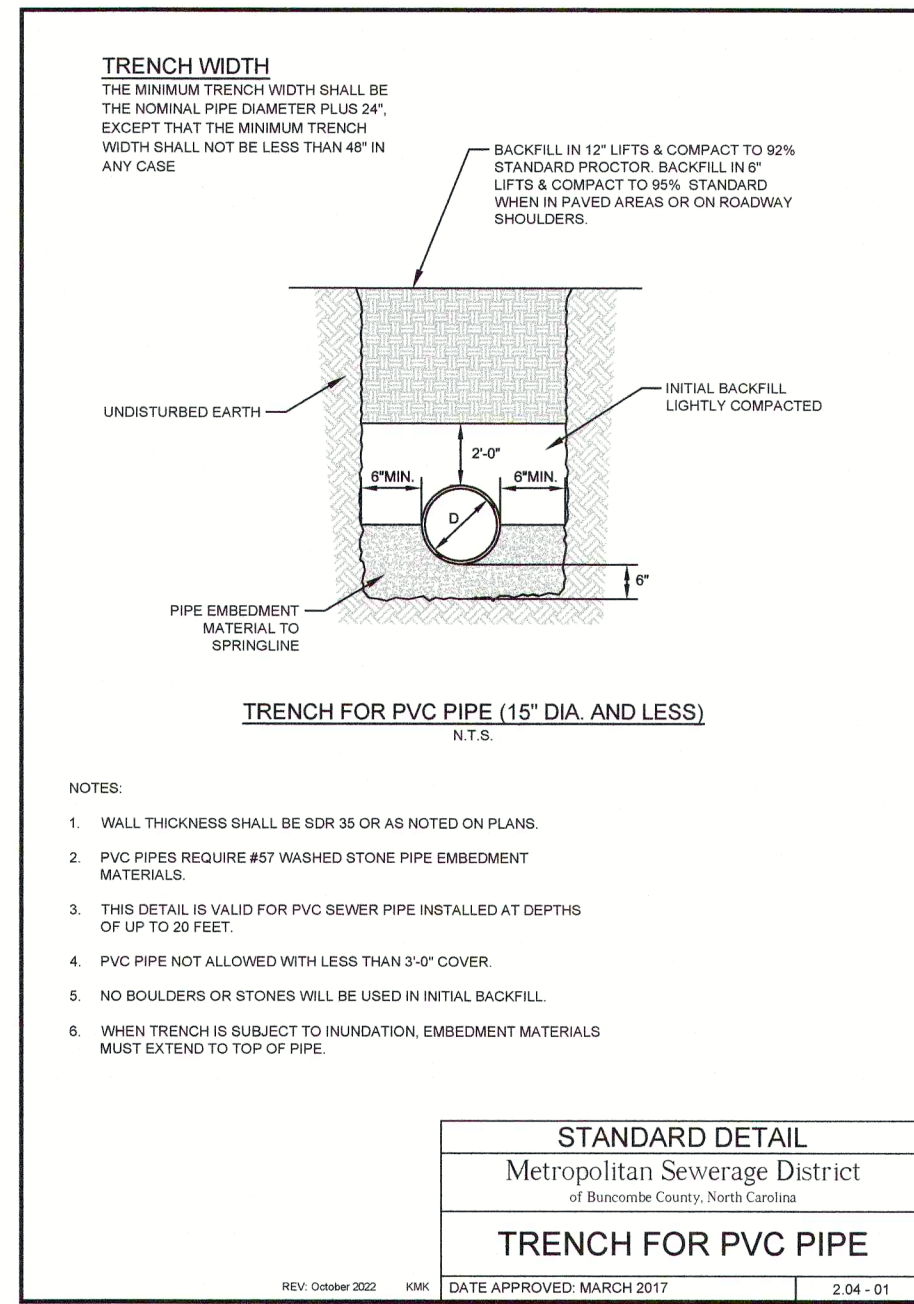
PL-4

DATE: 04/13/2021
SCALE: 1"=40'

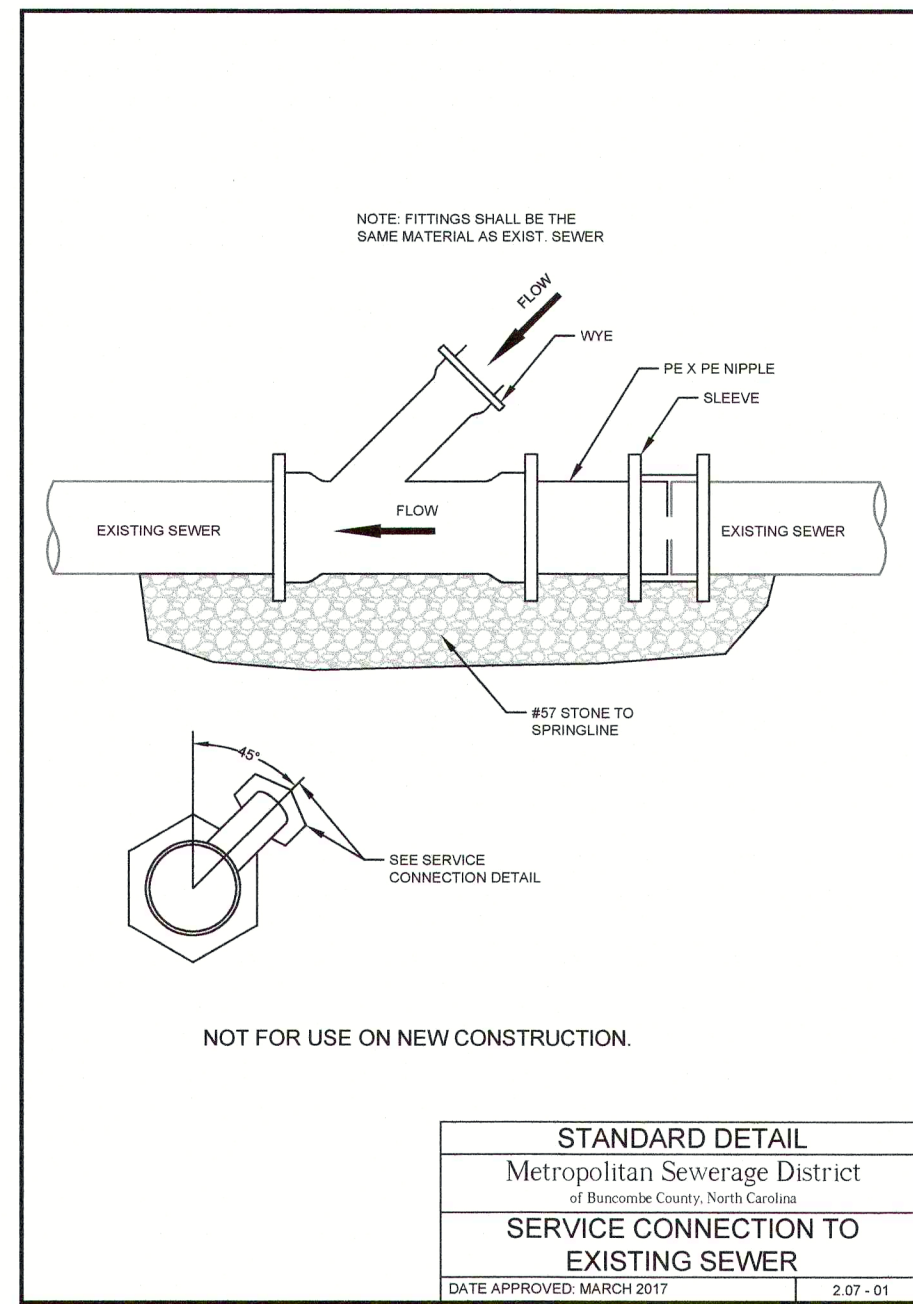
DRAWN: MAM
CHECKED BY: WAC
APPROVED: WAC



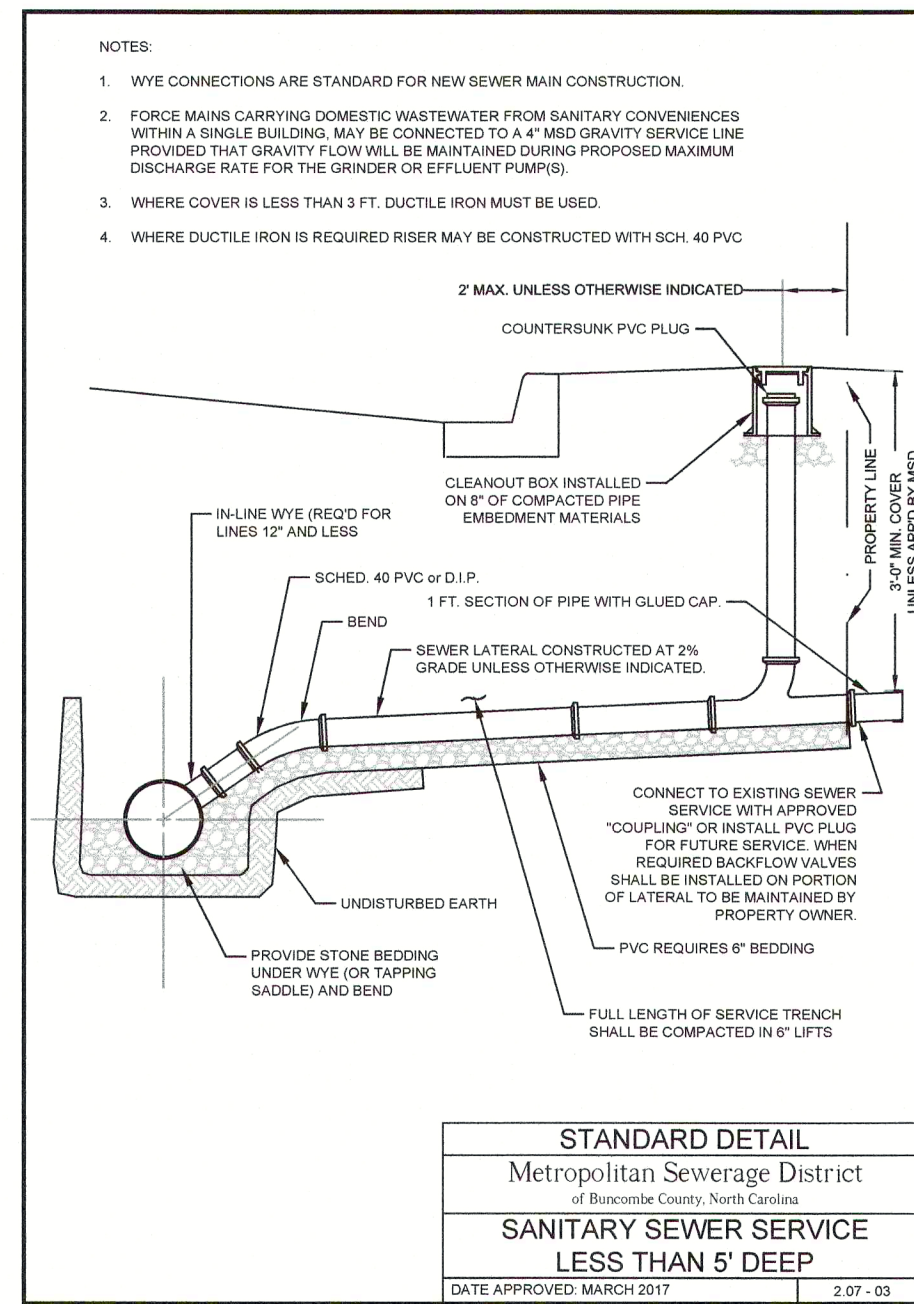
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
TRENCH BACKFILL
DATE APPROVED: MARCH 2017
2.01-01



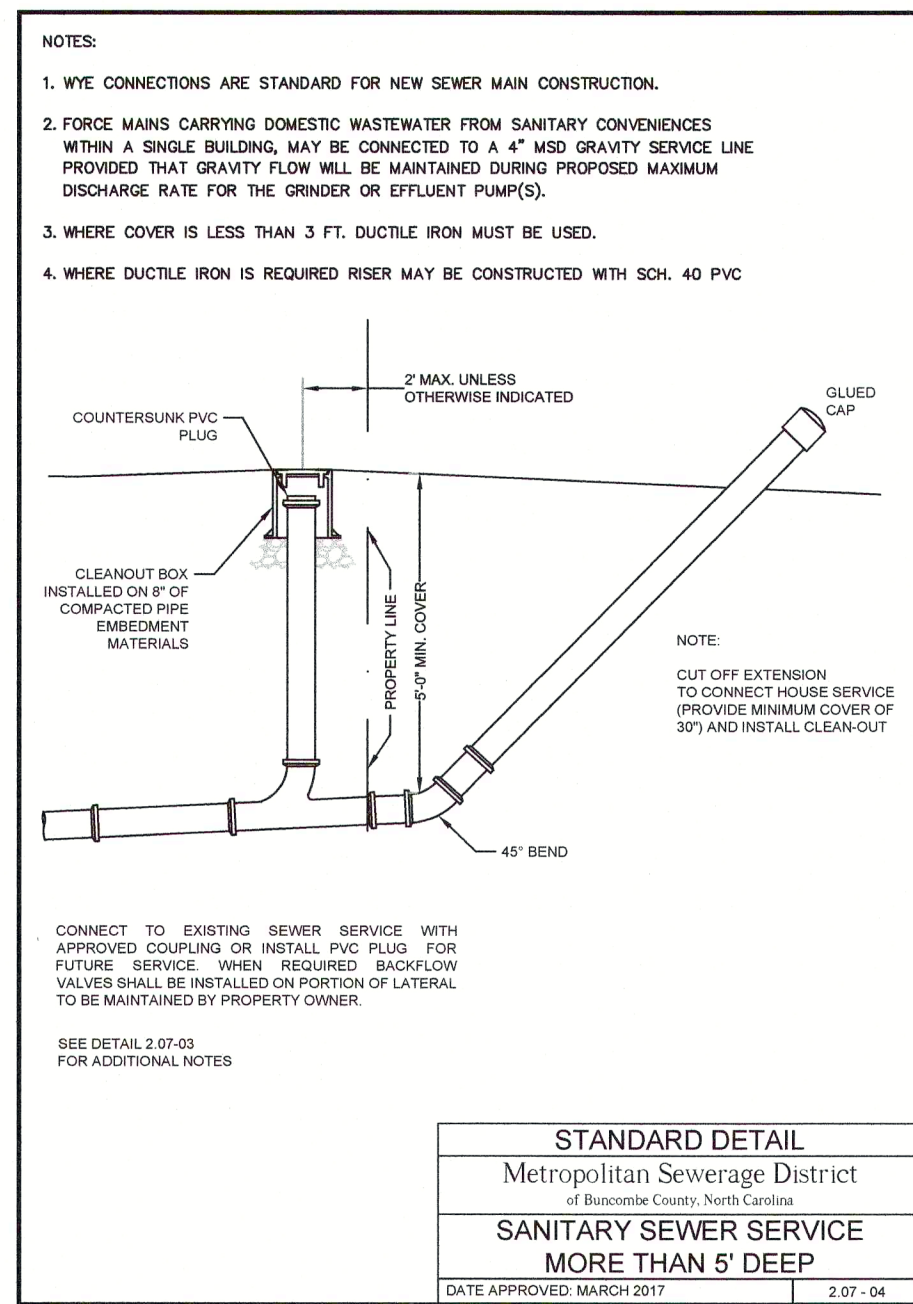
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
TRENCH FOR PVC PIPE
DATE APPROVED: MARCH 2017
2.04-01



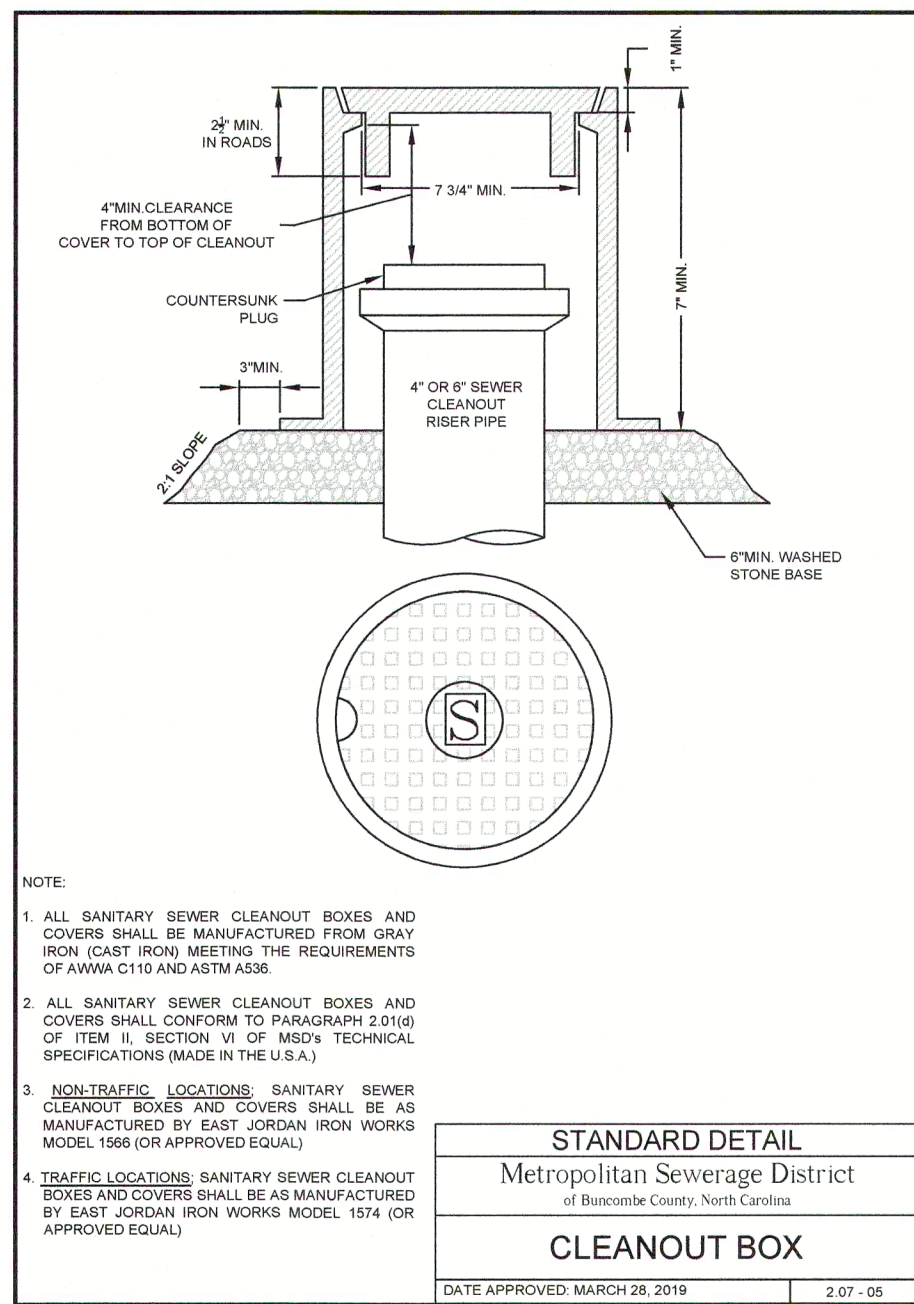
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
SERVICE CONNECTION TO EXISTING SEWER
DATE APPROVED: MARCH 2017
2.07-01



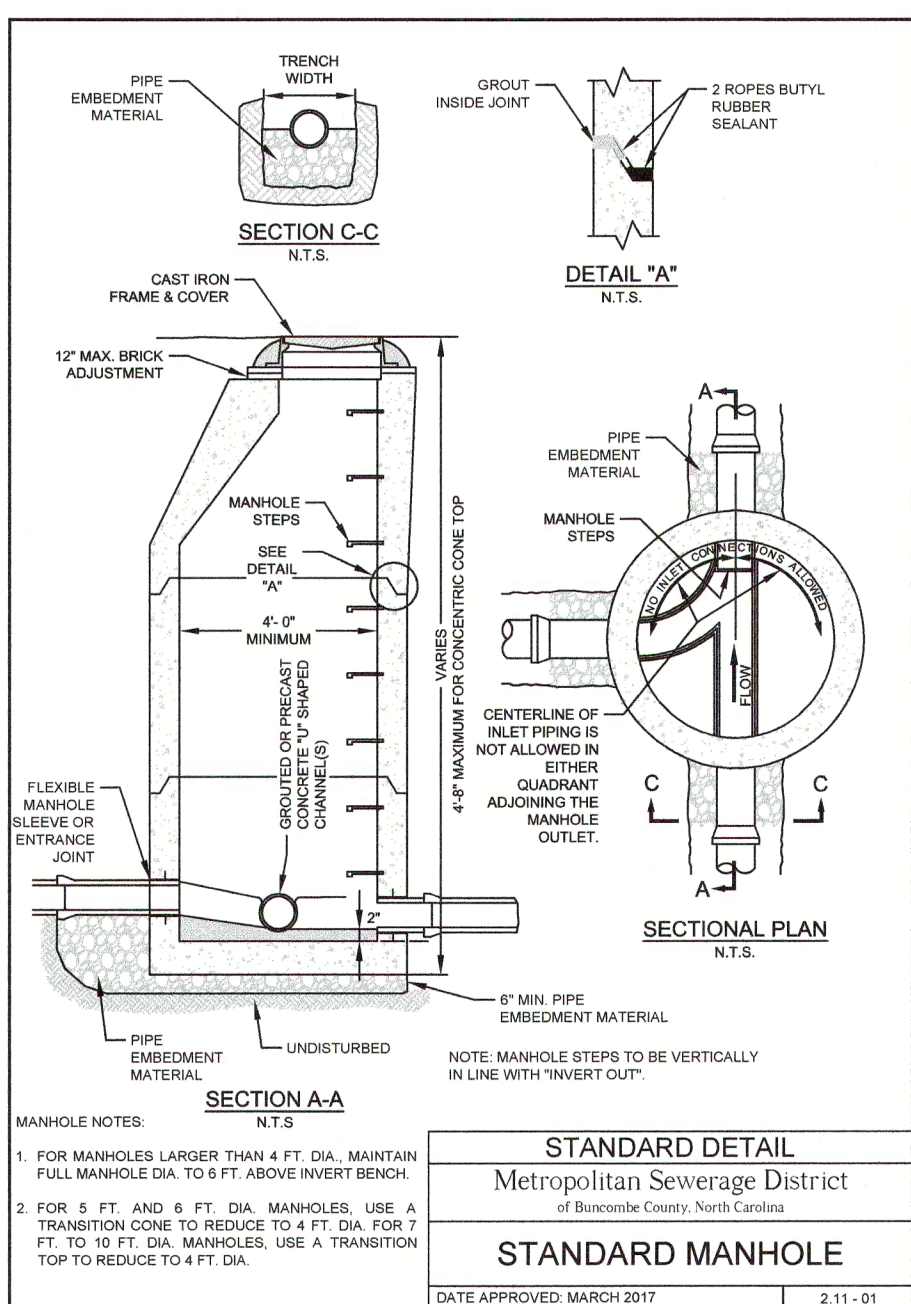
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
SANITARY SEWER SERVICE LESS THAN 5' DEEP
DATE APPROVED: MARCH 2017
2.07-03



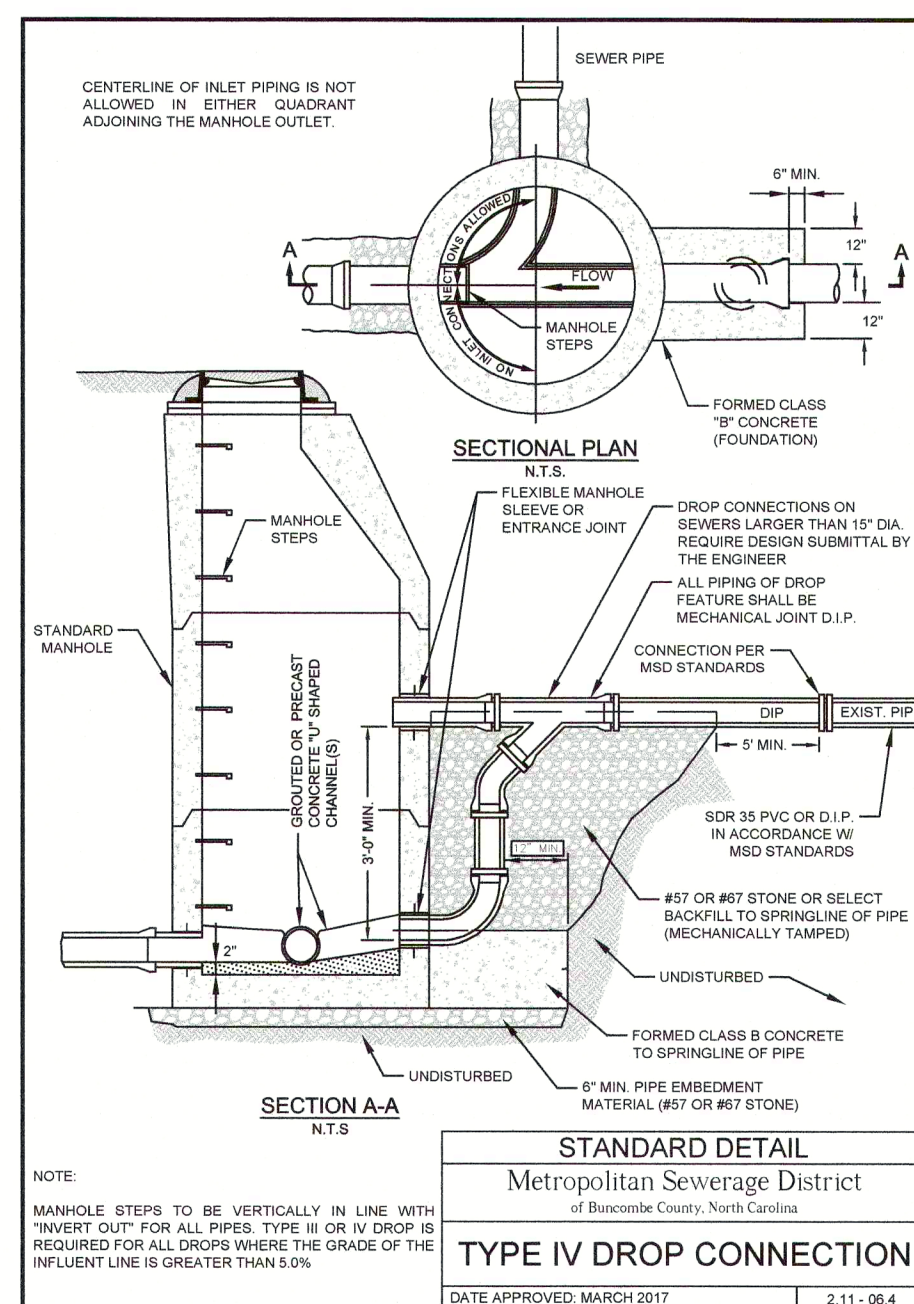
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
SANITARY SEWER SERVICE MORE THAN 5' DEEP
DATE APPROVED: MARCH 2017
2.07-04



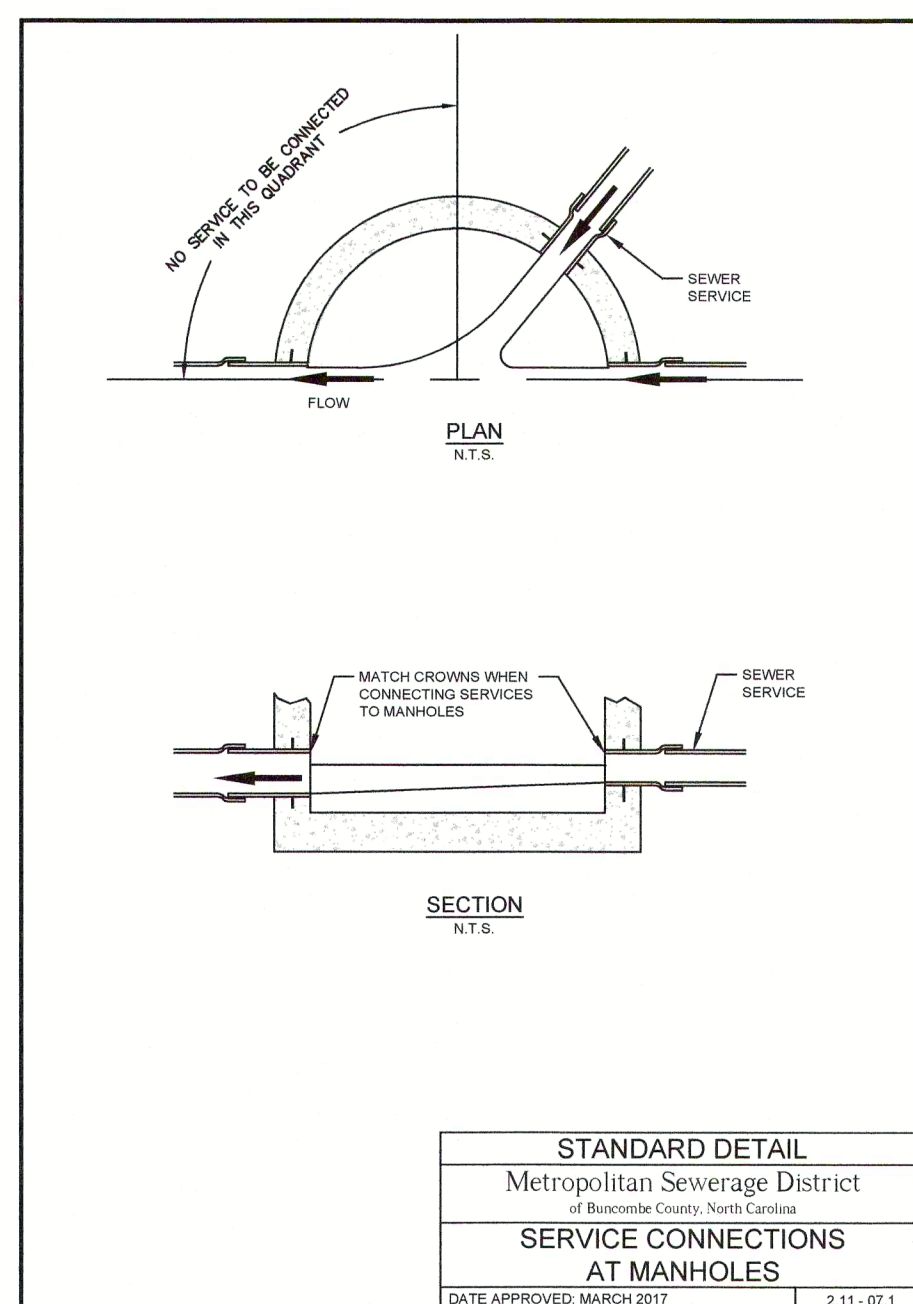
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
CLEANOUT BOX
DATE APPROVED: MARCH 28, 2019
2.07-05



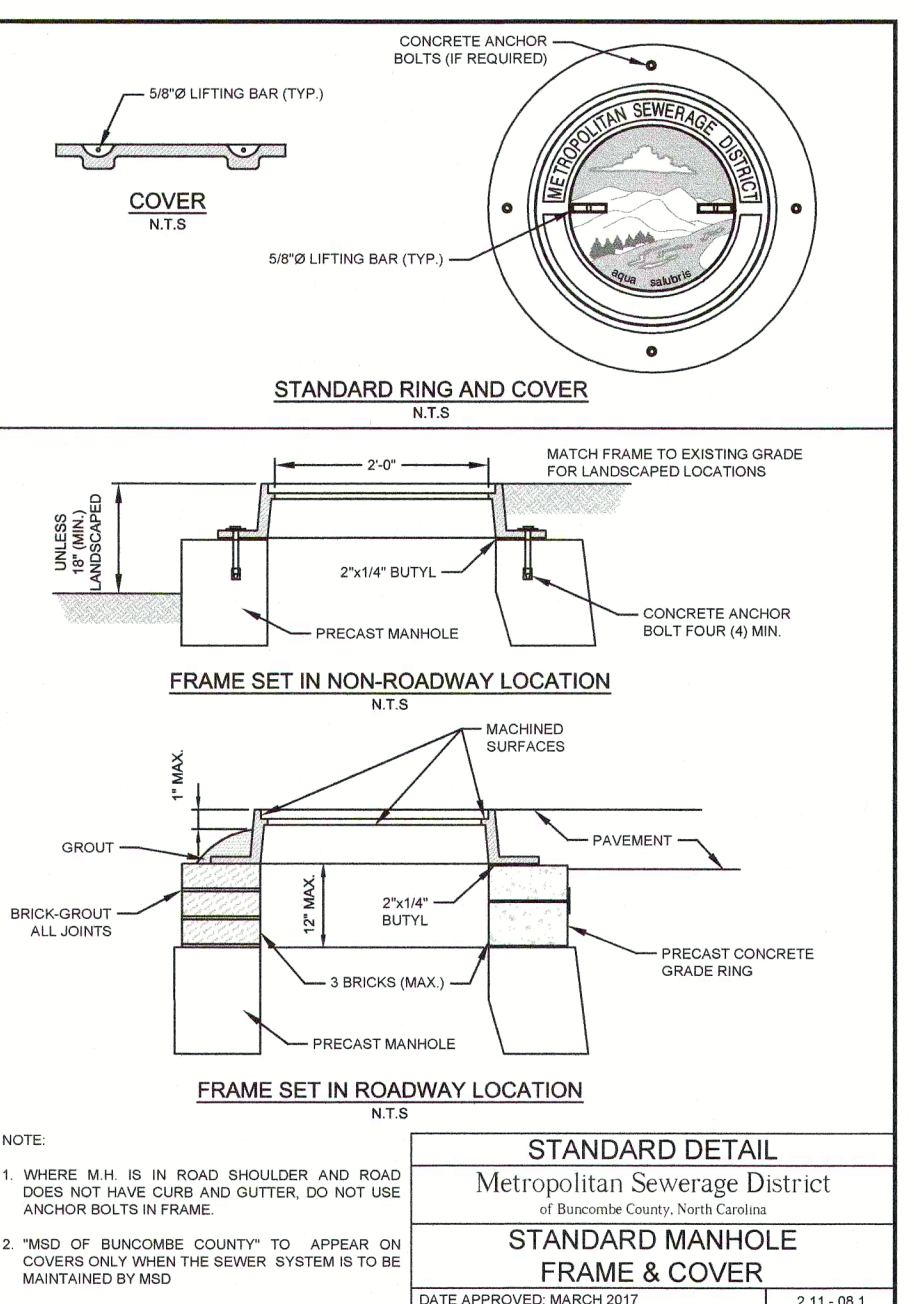
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
STANDARD MANHOLE
DATE APPROVED: MARCH 2017
2.11-01



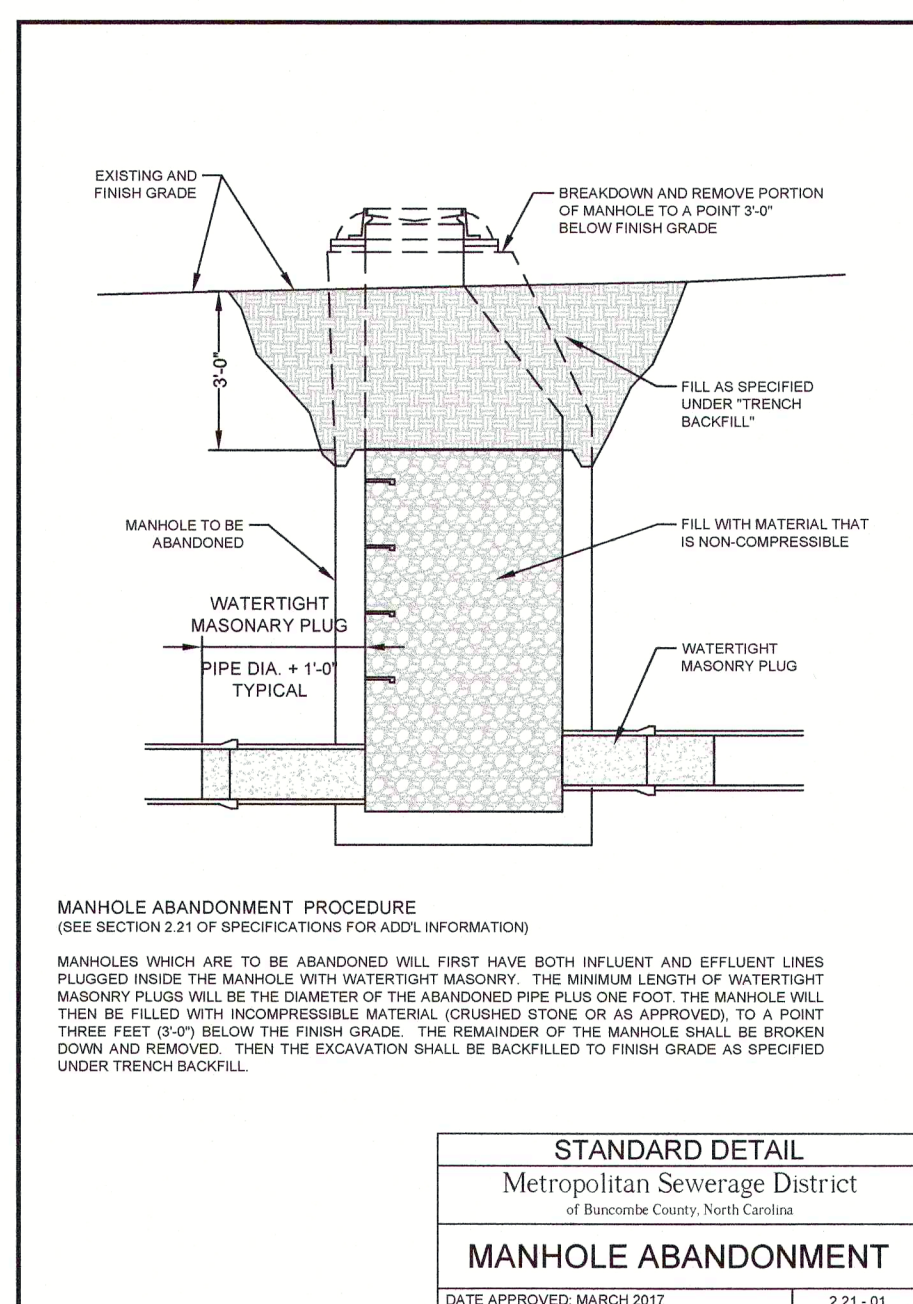
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
TYPE IV DROP CONNECTION
DATE APPROVED: MARCH 2017
2.11-04



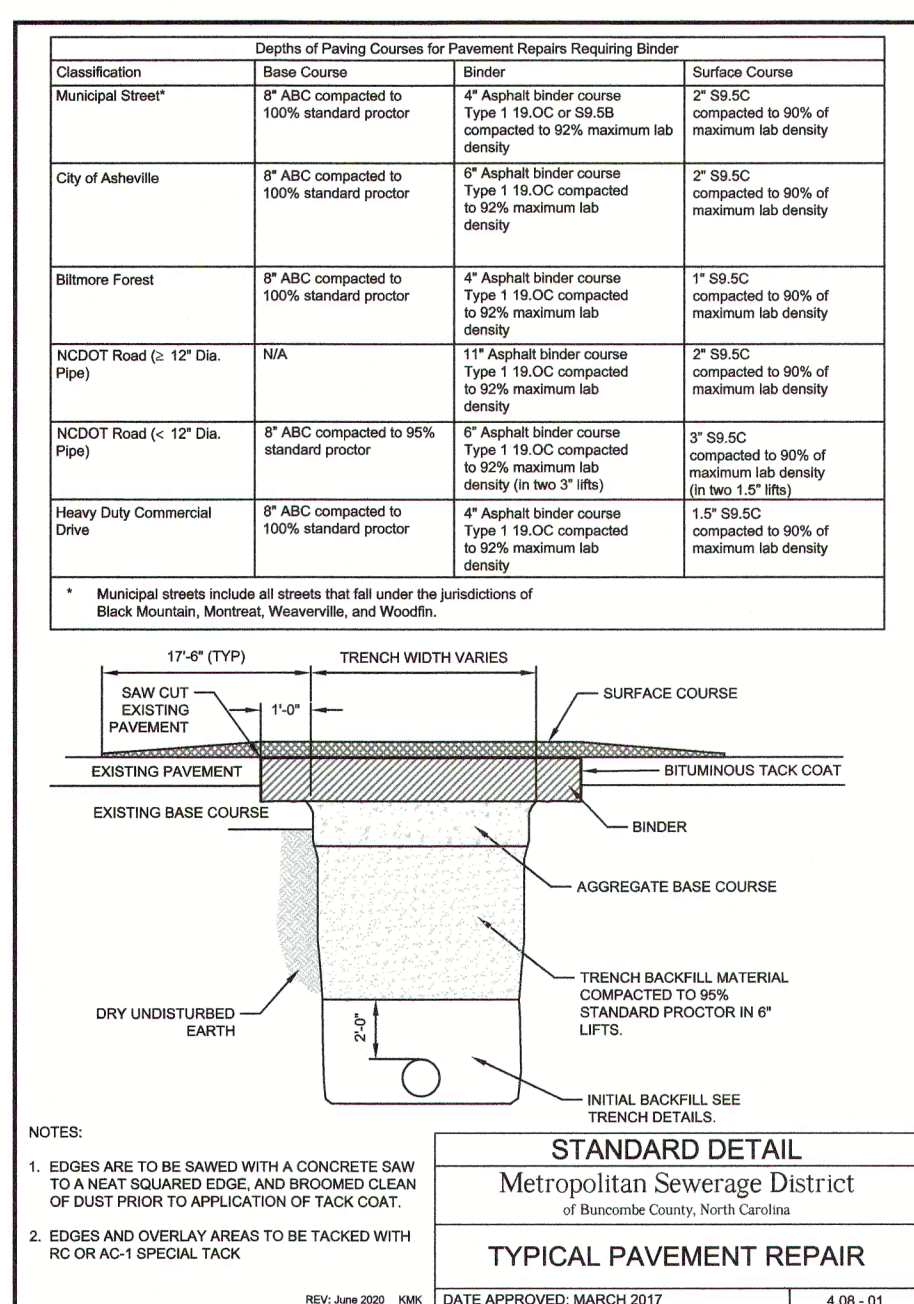
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
SERVICE CONNECTIONS AT MANHOLES
DATE APPROVED: MARCH 2017
2.11-07.1



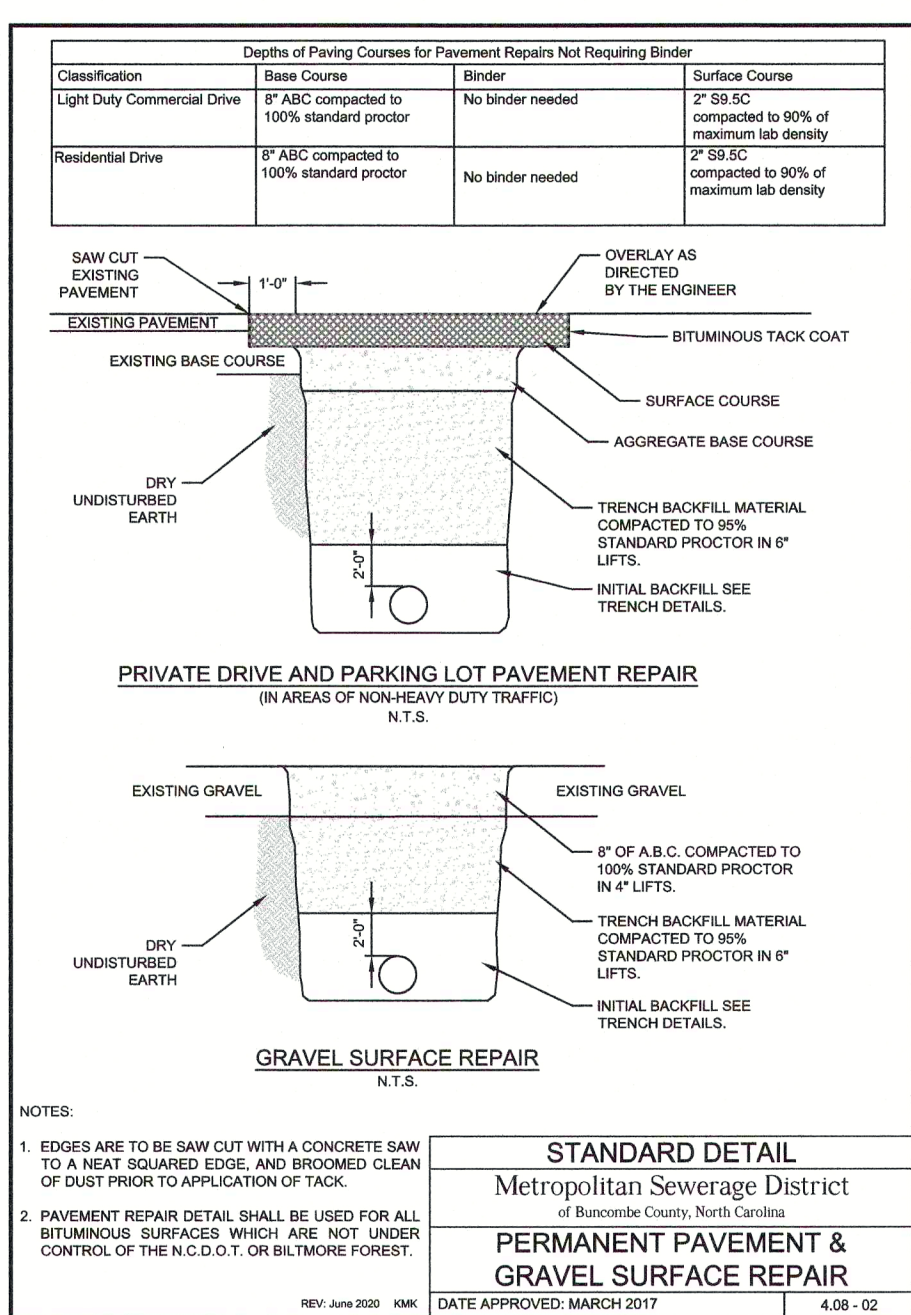
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
STANDARD RING AND COVER
DATE APPROVED: MARCH 2017
2.11-08.1



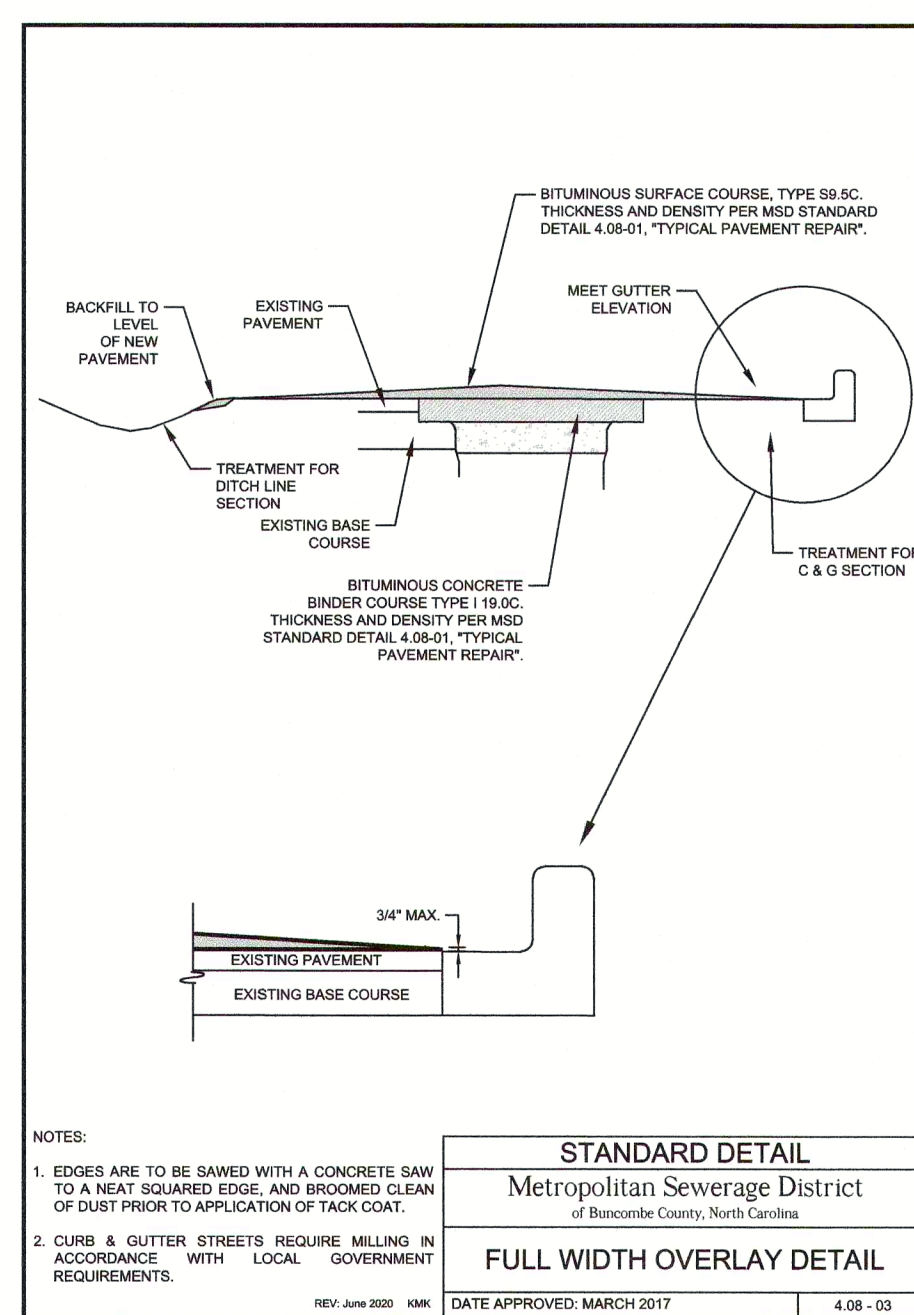
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
MANHOLE ABANDONMENT
DATE APPROVED: MARCH 2017
2.21-01



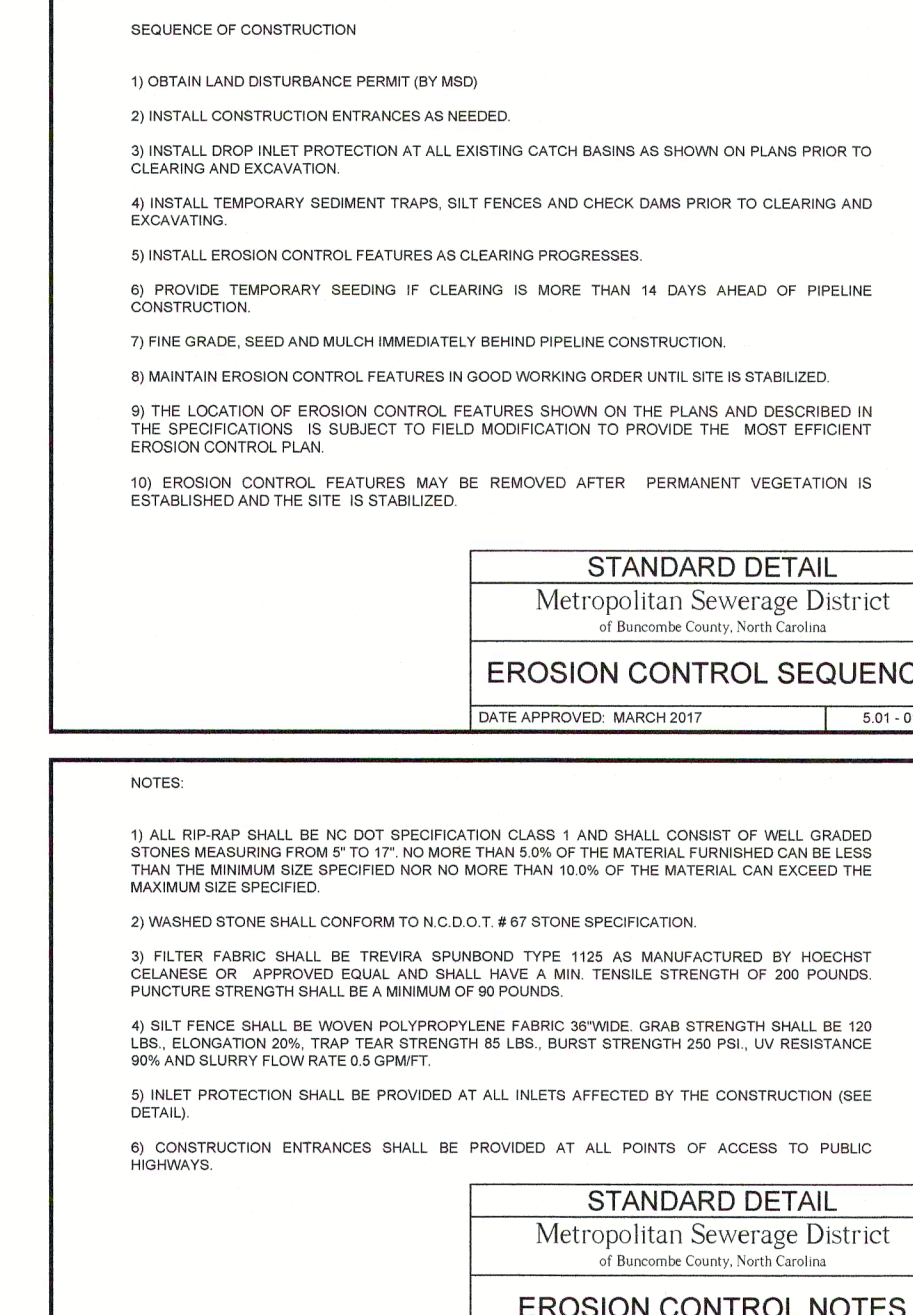
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
TYPICAL PAVEMENT REPAIR
DATE APPROVED: MARCH 2017
4.08-01



STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
PERMANENT PAVEMENT & GRAVEL SURFACE REPAIR
DATE APPROVED: MARCH 2017
4.08-02



STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
FULL WIDTH OVERLAY DETAIL
DATE APPROVED: MARCH 2017
4.08-03



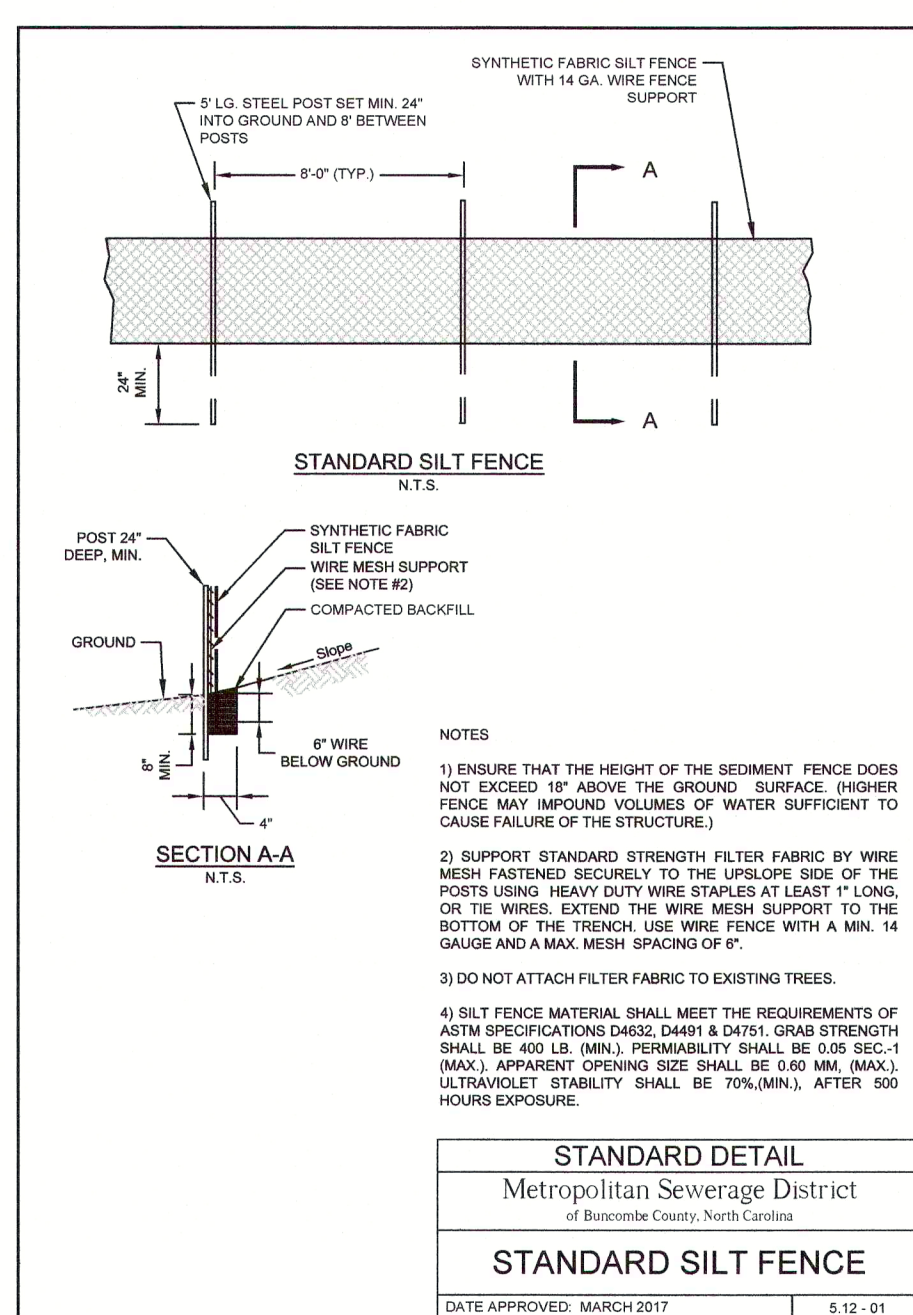
STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
EROSION CONTROL NOTES
DATE APPROVED: MARCH 2017
5.01-02

LOCATION	PERMANENT SEEDING SPECIFICATIONS (SEED THROUGH MULCH)	TEMPORARY SEEDING SPECIFICATIONS (SEED THROUGH MULCH)
LAWNS	FALCON FESCUE 175 LB/AC KENTUCKY 31 FESCUE 175 LB/AC BURNING MIX 200 LB/AC	RYE (GRASS) GERMAN RYE (GRASS) TALL FESCUE (10-15-10) MULCH
SEED TYPE	4,000 LB/AC (GROUND AS) 1,000 LB/AC, 5-10-10 500 LB/AC, 5-10-10	2,000 LB/AC (GROUND AS) 500 LB/AC, 5-10-10 3,000-4,000 LB/AC STRAW
LINE APPLICATION	4,000 LB/AC (GROUND AS) 1,000 LB/AC, 5-10-10 500 LB/AC, 5-10-10	2,000 LB/AC (GROUND AS) 500 LB/AC, 5-10-10 3,000-4,000 LB/AC STRAW
FERTILIZER	1,000 LB/AC, 5-10-10 500 LB/AC, 5-10-10	1,000 LB/AC, 5-10-10 500 LB/AC, 5-10-10
MULCH	4,000-1,000 LB/AC STRAW	3,000-4,000 LB/AC STRAW

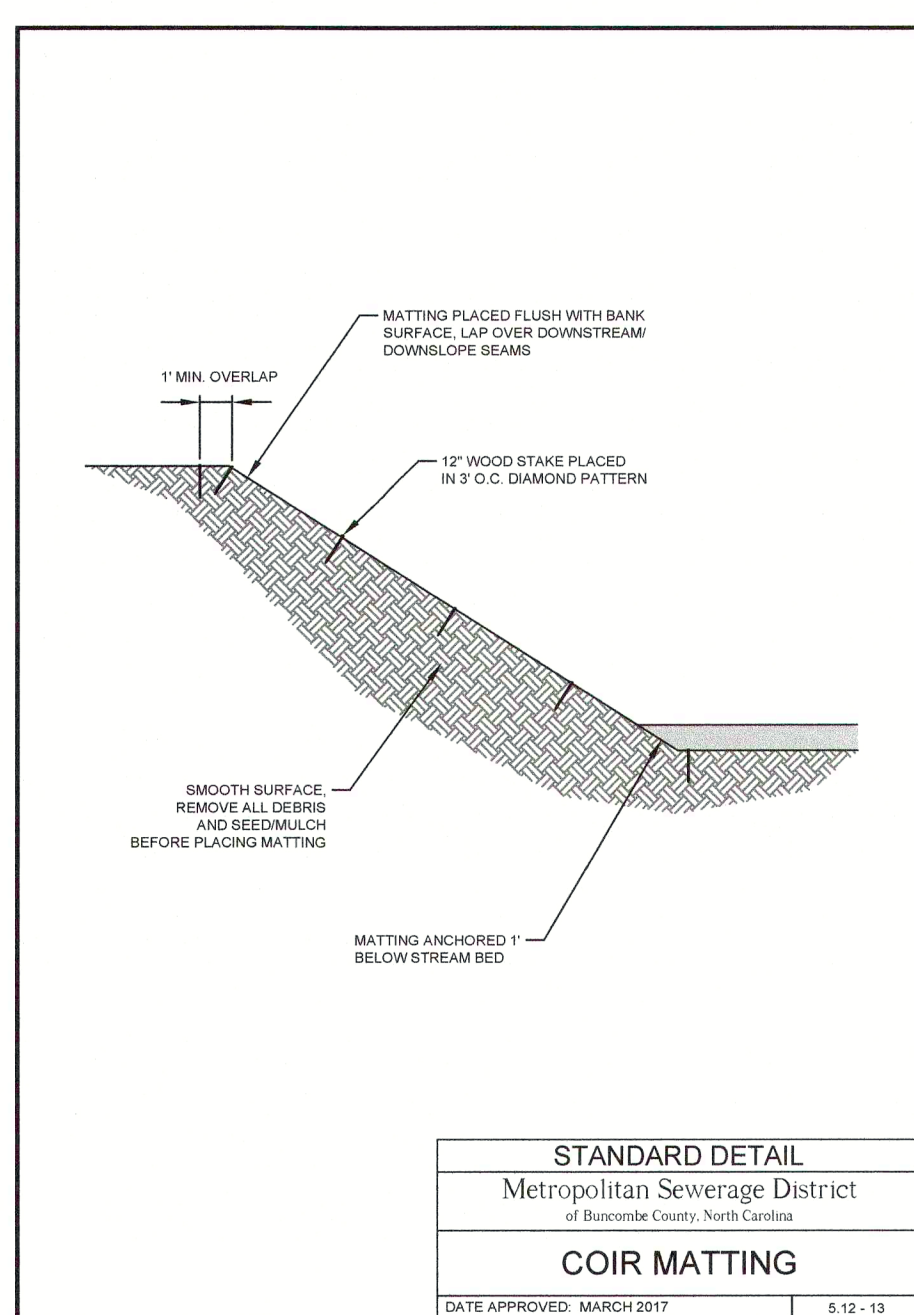
SEEDING SCHEDULES
N.T.S.

DATE APPROVED: MARCH 2017

STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
SEEDING SCHEDULES
DATE APPROVED: MARCH 2017
5.04-01



STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
STANDARD SILT FENCE
DATE APPROVED: MARCH 2017
5.12-01



STANDARD DETAIL
Metropolitan Sewerage District of Buncombe County, North Carolina
COIR MATTING
DATE APPROVED: MARCH 2017
5.12-13

Metropolitan Sewerage District
of Buncombe County

**CALEDONIA ROAD
Sanitary Sewer Details**

Engineering Division

10-13-2022 DATE
09-16-2022 DATE
1. ADDENDUM 1
2. BIG SET

No.	DESCRIPTION	REVISIONS
1	ADDENDUM 1	
2	BIG SET	

DRAWN: KMK
CHECKED BY: WMC
APPROVED: WMC

DATE: 04/12/2021
SCALE: NTS

D-1