CITY OF RIDGETOP
I & I REDUCTION / SEWER REHABILITATION

RIDGETOP, ROBERTSON COUNTY, TENNESSEE

VICINITY MAP

NOT TO SCALE

DRAWING INDEX

PROJECT TEAM

CIVIL

FOXPE, LLC
2711 BERRYWOOD DRIVE
NASHVILLE, TENNESSEE 37204

DUDNEY FOX
REGISTERED ENGINEER
STATE OF TENNESSEE

FOXPE
ENGINEERING FOR THE WATER ENVIRONMENT

CITY OF RIDGETOP
I & I REDUCTION / SEWER REHABILITATION
ROBERTSON COUNTY, TENNESSEE

CITY OF RIDGETOP

REV 0

GRADING & EXCAVATION

1 WHEN SPECIFIC GRADING REQUIREMENTS ARE NOT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL GRADE ALL AREAS WITHIN THE LIMITS OF CONSTRUCTION, OR OTHERWISE DISTURBED BY CONSTRUCTION.
2 THE CONTRACTOR SHALL PERFORM ALL NECESSARY STRIPPING OF EXISTING TOPSOIL ON THE JOBSITE.
3 NEWLY GRADED, EARTH AREAS NOT TO BE PAVED, RIP-RAPPED, OR STABILIZED, SHALL BE SEEDED IN ACCORDANCE WITH THE SPECIFICATIONS. PRIOR TO SEEDING, A FOUR INCH LAYER OF TOPSOIL SHALL BE PLACED ON THESE AREAS IN ACCORDANCE WITH SAID SPECIFICATIONS.
4 THE CONTRACTOR IS TO LEGALLY DISPOSE OF, AT HIS OWN EXPENSE, ALL UNSUITABLE AND/OR SURPLUS, EXCAVATED MATERIAL.
5 EXCAVATION ADJACENT TO EXISTING PAVEMENT SHALL BE MADE TO A NEAT LINE.
6 NO TREES SHALL BE REMOVED WITHOUT OWNER'S PERMISSION. ALL TREES THAT ARE CUT OR KNOCKED DOWN WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REMOVED AND DISPOSED OF OFF-SITE AT THE CONTRACTOR'S EXPENSE. BURNING IS NOT PERMITTED, EXCEPT AS PROVIDED IN THE SPECIFICATIONS.

EROSION & SEDIMENT CONTROL

1 ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL REQUIREMENTS SHALL BE FOLLOWED DURING CONSTRUCTION. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO A MINIMUM WIDTH NECESSARY TO ACCOMMODATE CONSTRUCTION SLOPES. EMBANKMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION. EROSION CHECKS AND SILT FENCE SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT-LADEN RUNOFF MAY ENTER A STREAM OR ADJACENT PROPERTY.
2 ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION, APPROVED BY THE ENGINEER, ABOVE THE NORMAL HIGH WATER ELEVATION.
3 THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL EROSION CONTROL PROVISIONS AS SET FORTH IN THE EROSION & SEDIMENT CONTROL HANDBOOK AVAILABLE FROM THE TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION.
4 THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL MEASURES THROUGHOUT THE LENGTH OF THE CONTRACT AS REQUIRED.
5 THE CONTRACTOR SHALL PROVIDE TEMPORARY EROSION AND WATER CONTROL MEASURES (SUCH AS BERMS, SEDIMENT BASINS, SLOPE DRAINS, AND SILT FENCES) AS DIRECTED BY THE ENGINEER.
6 NO EARTH OR OTHER ERODIBLE MATERIAL SHALL BE USED TO DIVERT STREAM FLOW OR TO CONSTRUCT COFFERDAMS. CLEAN CUT ROCK WITH FINES MAY BE USED, OR, IN THE CASE OF COFFERDAMS, STEEL SHEETING OR SAND BAGS IS PERMISSIBLE. WATER OR SEDIMENT ISOLATED BY COFFERDAMS SHALL BE PUMPED INTO SEDIMENT BASINS ON THE BANK OF THE STREAM.

UTILITIES

1 LOCATIONS OF UTILITIES, PUBLIC AND/OR PRIVATE, ARE APPROXIMATE ONLY, AND THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD. IT IS POSSIBLE THAT SOME EXISTING FACILITIES ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL UNDERGROUND UTILITY FACILITIES LOCATED AND MARKED PRIOR TO THE BEGINNING OF CONSTRUCTION.
2 THE CONTRACTOR SHALL NOTIFY ALL AFFECTED UTILITY OWNERS PRIOR TO INTERRUPTING ANY ELECTRICAL, COMMUNICATIONS, GAS, WATER, OR SEWER SERVICES. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY CUSTOMERS AT LEAST 24 HOURS BEFORE INTERRUPTING THE CUSTOMERS' SERVICE. WHERE INDIVIDUAL SERVICES ARE TO BE DISCONTINUED FOR MORE THAN 8 HOURS, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR PROVIDING TEMPORARY SERVICE SATISFACTORY TO THE AFFECTED CUSTOMER. THE REPAIR OR REPLACEMENT OF UTILITY COMPONENTS SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS OF THE UTILITY OWNER. NO SEPARATE PAYMENT SHALL BE MADE FOR THESE ACTIVITIES.
3 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. SHOULD SPECIAL EQUIPMENT BE REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR SHALL BE REQUIRED TO FURNISH SUCH EQUIPMENT. THE COST OF PROTECTING UTILITIES FROM DAMAGE AND FOR FURNISHING SPECIAL EQUIPMENT SHALL BE INCLUDED IN THE PRICE BID FOR OTHER ITEMS OF CONSTRUCTION.
4 ANY EXISTING STORM DRAINAGE PIPING DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AS RAPIDLY AS POSSIBLE AND THEN BE INSPECTED BY ITS RESPECTIVE OWNER.
5 IF ANY UTILITIES ARE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY'S OWNER. REPAIR OF THE UTILITY SHALL THEN BE ACCORDING TO THE OWNER'S INSTRUCTIONS, AND ALL COST PAID FOR BY CONTRACTOR.

MISCELLANEOUS

1 THE ENGINEER SHALL HAVE THE AUTHORITY TO DESIGNATE AND/OR LIMIT AREAS OF CONSTRUCTION.
2 THE OWNER MAKES NO REPRESENTATIONS ABOUT SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED WITHIN THE LIMITS OF THE PROJECT. THE CONTRACTOR SHOULD SATISFY HIMSELF BY ON-SITE INSPECTIONS, CORE DRILLINGS, OR OTHER METHODS, OF THE SUBSURFACE CONDITIONS THAT MAY BE ENCOUNTERED. THE RISK OF ENCOUNTERING AND CORRECTING UNFAVORABLE SUBSURFACE CONDITIONS SHALL BE BORNE SOLELY BY THE CONTRACTOR.
3 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL FIELD LAYOUTS.
4 ALL SALVAGEABLE MATERIAL FROM EXISTING PIPING AND STRUCTURES SHALL REMAIN PROPERTY OF THE OWNER. SAID MATERIAL SHALL BE CLEANED AND THEN DELIVERED TO THE OWNER AT A LOCATION DESIGNATED BY THE ENGINEER.
5 ALL UNSUITABLE MATERIAL, AS DETERMINED BY THE ENGINEER OR THROUGH TESTING, IS TO BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
6 THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AT HIS OWN EXPENSE ANY AND ALL DAMAGE THAT MAY OCCUR INSIDE AND OUTSIDE THE LIMITS OF THIS PROJECT AS A RESULT OF CONSTRUCTION.
7 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PAYMENT FOR TESTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND ORDERING APPROPRIATE TESTS AS REQUIRED. THE TESTING COMPANIES SHALL BE APPROVED BY OWNER AND ENGINEER.
8 THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE PROJECT WITHIN THIRTY (30) DAYS AFTER SUBSTANTIAL COMPLETION OF THE WORK. ("SUBSTANTIAL COMPLETION" SHALL BE DEFINED BY THE SPECIFICATIONS). THE OWNER RESERVES THE RIGHT TO WITHHOLD RETAINAGE UNTIL RECEIVING A COMPLETE SET OF SAID RECORD DRAWINGS.
9 SHOULD THERE BE A CONFLICT BETWEEN THESE GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, THE MOST RESTRICTIVE INTERPRETATION IN FAVOR OF THE OWNER SHALL PREVAIL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY CLARIFICATION OR INTERPRETATION OF GENERAL NOTES, CONTRACT DRAWINGS, AND/OR SPECIFICATIONS, IN ADVANCE AND IN WRITING, FROM THE ENGINEER.

PROJECT SPECIFIC NOTES

1 CONTRACTOR TO VERIFY ELEVATIONS OF EXISTING STRUCTURES PRIOR TO SUBMITTAL OF EQUIPMENT OR MATERIALS.
2 REPLACE ALL EXISTING PAVEMENT IN STREETS, DRIVEWAYS, OR PARKING AREAS WHICH IS REMOVED, DESTROYED, OR DAMAGED BY CONSTRUCTION OF IMPROVEMENTS.
3 CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

CONCRETE CLASS	CONC. WEIGHT (PCF)	28 DAY STRENGTH (PSI)	MAXIMUM W/C RATIO	CEMENT TYPE	MAXIMUM PERCENT FLY ASH	MAX. AGG. SIZE	AIR CONTENT
A	NWC 140-150	4,000	0.45	I OR II	25%	1"	6% +/- 1-1/2%
B	NWC 140-150	3,000	0.50	I OR II	25%	1"	6% +/- 1-1/2%

ABBREVIATIONS

GENERAL

ABV	ABOVE
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT
B&J	BORE AND JACK
BET	BETWEEN
BGS	BELOW GRADE SURFACE
BLDG	BUILDING
BLW	BELOW
BO	BOTTOM OF
BOT	BOTTOM
CLG	CEILING
CLR	CLEAR
CONC	CONCRETE
CONT	CONTINUOUS
CTR	CENTER
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DOOR
DS	DOWN SPOUT
DWG	DRAWING
E	EAST
EA	EACH
ELECT	ELECTRIC(AL)
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EQ	EQUAL
ETR	EXISTING TO REMAIN
EXST	EXISTING
EQUIP	EQUIPMENT
FA	FIRE ALARM
FD	FLOOR DRAIN
FH	FIRE HYDRANT
FIN	FINISH
FLR	FLOOR
FT	FOOT OR FEET
FO	FACE OF
GAL	GALLON
GALV	GALVANIZED
GND	GROUND
GV	GATE VALVE
HC	HANDICAPPED
HDWR	HARDWARE
HT	HEIGHT
HORIZ	HORIZONTAL
HR	HOUR
ID	INNER DIAMETER
INSUL	INSULATION
INT	INTERIOR
KILO	KILOGRAM
LB(S)	POUNDS
LDG	LANDING
LF	LINEAR FOOT
LT	LIGHT
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MTD	MOUNTED
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER (DIMENSION)
OC	OPEN CUT (METHOD)
OD	OUTSIDE DIAMETER
OFF	OFFICE
OPG	OPENING
OPP	OPPOSITE
PNT	POINT
PR	PAIR
PTD	PAINTED
R	RISER
RAD	RADIUS
RD	ROOF DRAIN
REF	REFERENCE
REINF	REINFORCED
REQ	REQUIRED
RM	ROOM
RO	ROUGH OPENING
S	SOUTH
SC	SERVICE CONNECTION
SCHED	SCHEDULED
SEAL	SEALANT
SECT	SECTION
SF	SQUARE FOOT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SEWER
STD	STANDARD
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SYM	SYMMETRICAL
TEL	TELEPHONE
THK	THICK
THR	THRESHOLD
TO	TOP OF
TYP	TYPICAL
UC	UNDERCUT
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	WEST
WT	WEIGHT
W/	WITH
W/O	WITHOUT
WP	WATERPROOF

PIPE MATERIALS

BSP	BLACK STEEL PIPE
CIP	CAST IRON PIPE
CISP	CAST IRON SOIL PIPE
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CPVC	CHLORINATED POLYVINYL CHLORIDE
CSP	CARBON STEEL PIPE (SEAMLESS)
CU	COPPER
DIP	DUCTILE IRON PIPE
FRP	FIBERGLASS REINFORCED PIPE
GIP	GALVANIZED IRON PIPE
GSP	GALVANIZED STEEL PIPE
HDPE	HIGH DENSITY POLYETHLENE
IP	IRON PIPE
PB	POLYBUTLENE
PCP	PRESTRESSED CONCRETE PRESSURE
PE	POLYETHLENE
PP	POLYPROPYLENE
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RH	RUBBER HOSE
SSTL	STAINLESS STEEL
STL	STEEL (FABRICATED)
VCP	VITRIFIED CLAY PIPE

JOINT TYPES

CC	CORRUGATED COUPLING
CPL	COUPLING
FLG	FLANGE
FREJ	FLEXIBLE RUBBER EXPANSION JOINT
MJ	MECHANICAL JOINT
OR	"O" RING
PE	PLAIN END
PO	PUSH ON
RJ	RESTRAINED JOINT
SW	SOLVENT WELD
SWT	SWEAT
NPT	THREADED

VALVE TYPES

ARV	AIR RELEASE VALVE
BLV	BALL VALVE
BFV	BUTTERFLY VALVE
CNV	CONE VALVE
CV	CHECK VALVE
DV	DIAPHRAGM VALVE
GV	GATE VALVE
GBV	GLOBE VALVE
KV	KNIFE VALVE
MO	MOTOR OPERATED VALVE
MV	MUD VALVE
NV	NEEDLE VALVE
PHV	PINCH VALVE
PV	PLUG VALVE
PRV	PRESSURE REDUCING VALVE

FOXPE
ENGINEERING FOR THE WATER ENVIRONMENT
2711 BERRYWOOD DRIVE
NASHVILLE, TENNESSEE 37204
FOXPE.COM

CITY OF RIDGETOP

I & I REDUCTION / SEWER REHABILITATION
4700-008

CITY OF RIDGETOP

NORTH

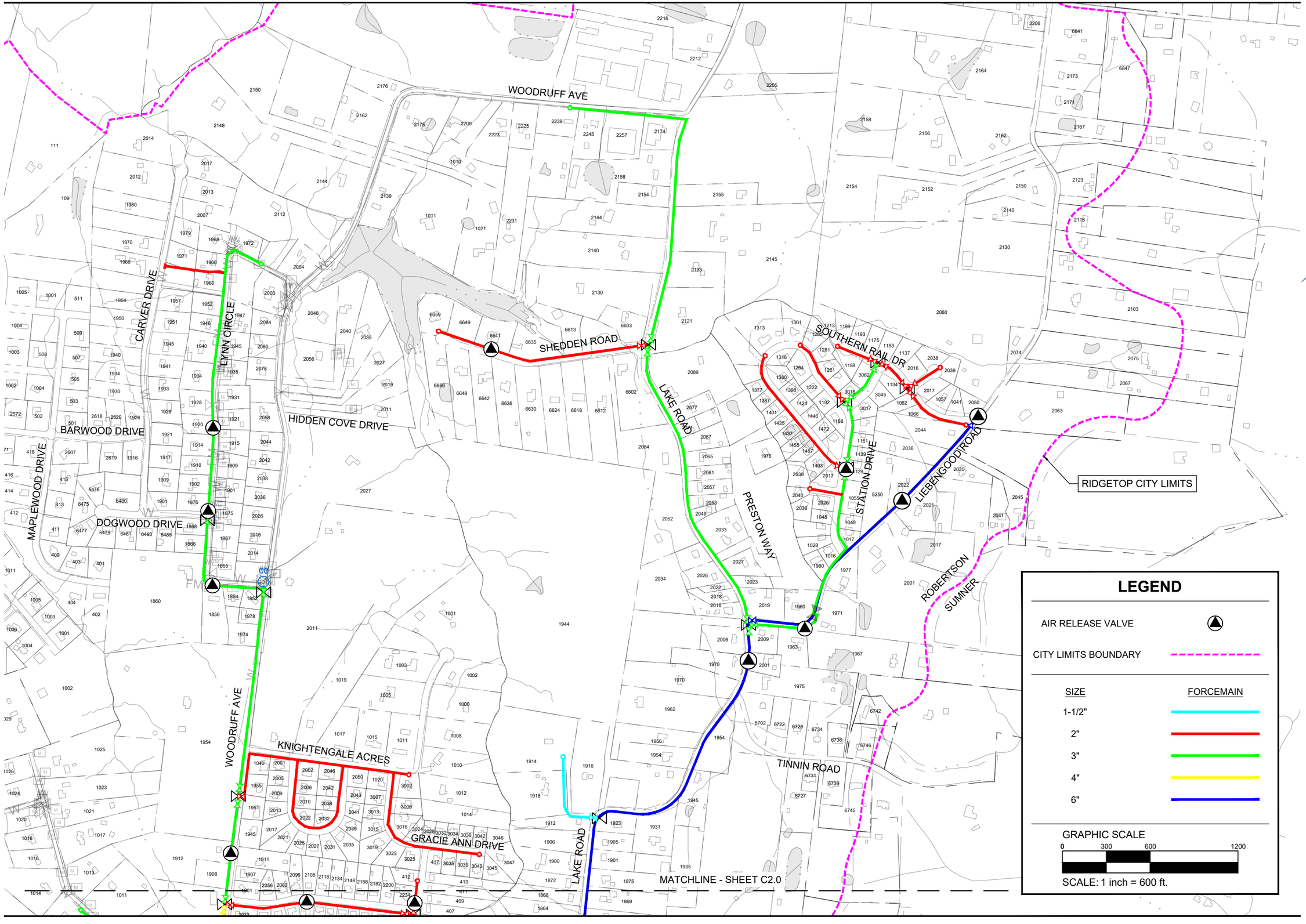
DRAWN BY: CAJ

APPROVED BY: JDF

REV	DATE	DESCRIPTION

TITLE: GENERAL NOTES

DRAWING NO.: G2.0



LEGEND

AIR RELEASE VALVE

CITY LIMITS BOUNDARY

SIZE	FORCEMAIN
1-1/2"	
2"	
3"	
4"	
6"	

GRAPHIC SCALE

0 300 600 1200

SCALE: 1 inch = 600 ft.

FOXPE
ENGINEERING FOR THE WATER ENVIRONMENT
2711 BERRYWOOD DRIVE
NASHVILLE, TENNESSEE 37204
FOXPE.COM

SIDNEY FOX
REGISTERED ENGINEER
STATE OF TENNESSEE

CITY OF RIDGETOP

I & I REDUCTION / SEWER REHABILITATION
4700-008

NORTH

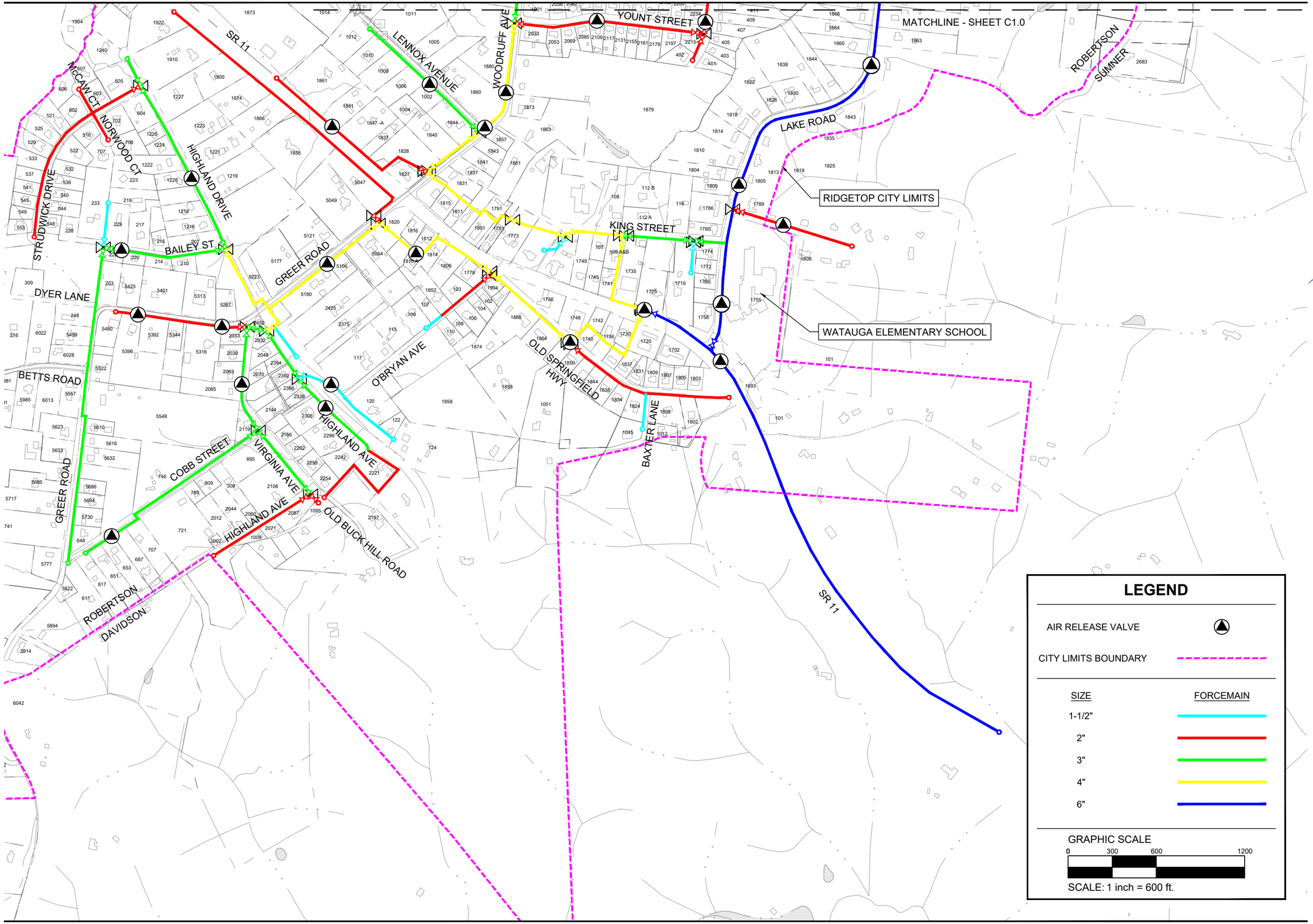
DRAWN BY: CAJ

APPROVED BY: JDF

REV	DATE	DESCRIPTION

TITLE: SYSTEM MAP

DRAWING NO.: C1.0



LEGEND

AIR RELEASE VALVE

CITY LIMITS BOUNDARY

SIZE	FORCEMAIN
1-1/2"	
2"	
3"	
4"	
6"	

GRAPHIC SCALE

0 300 600 1200

SCALE: 1 inch = 600 ft.

FOXPE
ENGINEERING FOR THE WATER ENVIRONMENT
2711 BERRYWOOD DRIVE
NASHVILLE, TENNESSEE 37204
FOXPE.COM

CITY OF RIDGETOP

I & I REDUCTION / SEWER REHABILITATION
4700-008

NORTH

DRAWN BY: CAJ

APPROVED BY: JDF

DESCRIPTION | DATE | REV

TITLE: SYSTEM MAP

DRAWING NO.: C2.0

PROPOSED REHABILITATION LOCATIONS

223 BAILEY ST
228 BAILEY ST
233 BAILEY ST
1045 BAXTER LN
5985 BETTS RD
6013 BETTS RD
611 COBB ST
617 COBB ST
648 COBB ST
651 COBB ST
653 COBB ST
687 COBB ST
707 COBB ST
746 COBB ST
789 COBB ST
809 COBB ST
203 DYER LN
101 E END RD
3002 GRACIE ANN DR LT49
3006 GRACIE ANN DR LT48
3007 GRACIE ANN DR LT28
3013 GRACIE ANN DR LT29
3015 GRACIE ANN DR LT30
3016 GRACIE ANN DR LT47
3019 GRACIE ANN DR LT31
3024 GRACIE ANN DR LT46
3025 GRACIE ANN DR LT33
3028 GRACIE ANN DR LT45
3032 GRACIE ANN DR LT44
3034 GRACIE ANN DR LT43
3035 GRACIE ANN DR LT35
3038 GRACIE ANN DR LT42
3039 GRACIE ANN DR LT36
3042 GRACIE ANN DR LT41
3043 GRACIE ANN DR LT37
3045 GRACIE ANN DR LT38
3046 GRACIE ANN DR LT 40
3047 GRACIE ANN DR LT 39
1914 GREER RD
5047 GREER RD
5049 GREER RD
5064 GREER RD
5106 GREER RD
5121 GREER RD
5190 GREER RD
5287 GREER RD
5313 GREER RD
5316 GREER RD
5344 GREER RD
5396 GREER RD
5480 GREER RD
5522 GREER RD
5548 GREER RD
5557 GREER RD
5610 GREER RD
5616 GREER RD
5623 GREER RD
5632 GREER RD
5633 GREER RD
5685 GREER RD
5686 GREER RD
5694 GREER RD
5730 GREER RD
5777 GREER RD
5822 GREER RD
401 HAZEL DR LT15
402 HAZEL DR LT14
403 HAZEL DR LT16
407 HAZEL DR LT18
409 HAZEL DR LT19
411 HAZEL DR LT20
412 HAZEL DR LT22
413 HAZEL DR LT21
417 HAZEL DR LT34
1095 HIGHLAND AVE LT4
1109 HIGHLAND AVE
1126 HIGHLAND AVE
1128 HIGHLAND AVE
2060 HIGHLAND AVE
2071 HIGHLAND AVE
2087 HIGHLAND AVE
2221 HIGHLAND AVE
2242 HIGHLAND AVE
2296 HIGHLAND AVE
2306 HIGHLAND AVE
2336 HIGHLAND AVE
2366 HIGHLAND AVE
2375 HIGHLAND AVE
2392 HIGHLAND AVE
2394 HIGHLAND AVE
2452 HIGHLAND AVE
1216 HIGHLAND DR
1218 HIGHLAND DR
1219 HIGHLAND DR
1220 HIGHLAND DR
1222 HIGHLAND DR
1223 HIGHLAND DR
1224 HIGHLAND DR
1226 HIGHLAND DR LT2
1227 HIGHLAND DR
1240 HIGHLAND DR LT1
1707 HIGHWAY 41 S
1719 HIGHWAY 41 S
1720 HIGHWAY 41 S
1725 HIGHWAY 41 S
1730 HIGHWAY 41 S
1735 HIGHWAY 41 S
1736 HIGHWAY 41 S
1741 HIGHWAY 41 S
1742 HIGHWAY 41 S
1745 HIGHWAY 41 S
1748 HIGHWAY 41 S
1749 HIGHWAY 41 S
1765 HIGHWAY 41 S
1773 HIGHWAY 41 S
1778 HIGHWAY 41 S
1781 HIGHWAY 41 S
1791 HIGHWAY 41 S
1801 HIGHWAY 41 S
1806 HIGHWAY 41 S
1807 HIGHWAY 41 S
1810 HIGHWAY 41 S
1811 HIGHWAY 41 S
1812 HIGHWAY 41 S A
1814 HIGHWAY 41 S
1815 HIGHWAY 41 S
1819 HIGHWAY 41 S
1827 HIGHWAY 41 S
1837 HIGHWAY 41 S
1847 HIGHWAY 41 S A
1851 HIGHWAY 41 S
1853 HIGHWAY 41 S
1855 HIGHWAY 41 S
1861 HIGHWAY 41 S
1866 HIGHWAY 41 S
1873 HIGHWAY 41 S A
1873 HIGHWAY 41 S B
1874 HIGHWAY 41 S
1877 HIGHWAY 41 S
1900 HIGHWAY 41 S
1910 HIGHWAY 41 S
1922 HIGHWAY 41 S
1934 HIGHWAY 41 S
101 KING ST
102 KING ST
104 KING ST
107 KING ST
108 KING ST
109 KING ST A
109 KING ST B
111 KING ST
112 KING ST A
112 KING ST B
116 KING ST
1020 KNIGHTENGALE ACRES
1021 KNIGHTENGALE ACRES
1034 KNIGHTENGALE ACRES LT26
1046 KNIGHTENGALE ACRES LT4
1600 KNIGHT CT
1601 KNIGHT CT
1603 KNIGHT CT LT3
1604 KNIGHT CT
1605 KNIGHT CT
1606 KNIGHT CT LT8A
1607 KNIGHT CT LT1
1608 KNIGHT CT
1755 LAKE RD B
1756 LAKE RD
1766 LAKE RD
1772 LAKE RD
1774 LAKE RD
1780 LAKE RD
1786 LAKE RD
1789 LAKE RD
1800 LAKE RD
1804 LAKE RD
1805 LAKE RD
1810 LAKE RD
1813 LAKE RD
1814 LAKE RD
1818 LAKE RD
1819 LAKE RD
1822 LAKE RD
1825 LAKE RD LT2
1826 LAKE RD
1830 LAKE RD
1835 LAKE RD
1838 LAKE RD
1844 LAKE RD
1855 LAKE RD
1860 LAKE RD
1863 LAKE RD
1864 LAKE RD
1868 LAKE RD
1869 LAKE RD
1872 LAKE RD
1875 LAKE RD
1900 LAKE RD
1901 LAKE RD
1905 LAKE RD
1912 LAKE RD
1914 LAKE RD
1916 LAKE RD
1918 LAKE RD
1923 LAKE RD LT2
1931 LAKE RD
1935 LAKE RD
1944 LAKE RD
1945 LAKE RD
1954 LAKE RD
1956 LAKE RD
1970 LAKE RD
1975 LAKE RD
2001 LAKE RD
2006 LAKE RD
2009 LAKE RD
2016 LAKE RD
2018 LAKE RD
2019 LAKE RD
2022 LAKE RD
2023 LAKE RD
2026 LAKE RD
2027 LAKE RD
2034 LAKE RD
2049 LAKE RD
2052 LAKE RD
2053 LAKE RD LT3
2057 LAKE RD
2064 LAKE RD LT8
2065 LAKE RD
2071 LAKE RD
2077 LAKE RD
2089 LAKE RD
2121 LAKE RD
2130 LAKE RD
2133 LAKE RD
2140 LAKE RD
2144 LAKE RD
2145 LAKE RD
2154 LAKE RD
2155 LAKE RD
2158 LAKE RD
2164 LAKE RD
2174 LAKE RD
2200 LAKE RD
2210 LAKE RD
1004 LENNOX AVE
1005 LENNOX AVE
1006 LENNOX AVE LT2
1010 LENNOX AVE
1011 LENNOX AVE
1012 LENNOX AVE
1013 LENNOX AVE
1014 LENNOX AVE
1016 LENNOX AVE LT10
1017 LENNOX AVE
1971 LIEBENGOOD RD
1976 LIEBENGOOD RD
1977 LIEBENGOOD RD
1980 LIEBENGOOD RD LT 1
2050 LIEBENGOOD RD LT67
1852 LYNN CIR LT33
1854 LYNN CIR
1855 LYNN CIR LT1
1856 LYNN CIR LT41
1860 LYNN CIR
1866 LYNN CIR
1867 LYNN CIR LT2
1868 LYNN CIR
1875 LYNN CIR LT41
1876 LYNN CIR LT39
1901 LYNN CIR LT42
1902 LYNN CIR LT45
1909 LYNN CIR LT43
1910 LYNN CIR LT36
1914 LYNN CIR LT5

FOXPE
ENGINEERING FOR THE WATER ENVIRONMENT
2711 BERRYWOOD DRIVE
NASHVILLE, TENNESSEE 37204
FOXPE.COM

DUDNEY J. FOX
REGISTERED ENGINEER
STATE OF TENNESSEE

CITY OF RIDGETOP
I & I REDUCTION / SEWER REHABILITATION
4700-008

CITY OF RIDGETOP

NORTH	DRAWN BY: CAJ
	APPROVED BY: JDF

REV	DATE	DESCRIPTION

TITLE: PROPOSED REHABILITATION LOCATION TABLE

DRAWING NO.: C3.0

PROPOSED REHABILITATION LOCATIONS

1915 LYNN CIR
1920 LYNN CIR LT43
1921 LYNN CIR LT9
1928 LYNN CIR LT40
1931 LYNN CIR LT4
1934 LYNN CIR LT46
1935 LYNN CIR LT61
1940 LYNN CIR LT47
1945 LYNN CIR LT62
1946 LYNN CIR LT100
1947 LYNN CIR LT63
1952 LYNN CIR LT101
1960 LYNN CIR LT50
1968 LYNN CIR
1972 LYNN CIR LT5
2003 LYNN CIR LT15
2004 LYNN CIR
2017 L&N CT LT10
2026 L&N CT
2036 L&N CT LT7
2039 L&N CT LT9
2040 L&N CT LT8
205 LOIS LN
209 LOIS LN
602 MCCAW CT LT57
603 MCCAW CT LT58
606 MCCAW CT LT56
607 MCCAW CT
702 NORWOOD CT LT5
706 NORWOOD CT LT6
707 NORWOOD CT LT8
102 OBRYAN AVE
103 OBRYAN AVE
104 OBRYAN AVE
105 OBRYAN AVE
106 OBRYAN AVE A
106 OBRYAN AVE B
107 OBRYAN AVE
108 OBRYAN AVE
109 OBRYAN AVE
110 OBRYAN AVE
113 OBRYAN AVE
117 OBRYAN AVE
120 OBRYAN AVE
122 OBRYAN AVE
124 OBRYAN AVE

1756 OLD SPRINGFIELD HWY
1800 OLD SPRINGFIELD HWY
1802 OLD SPRINGFIELD HWY
1803 OLD SPRINGFIELD HWY LT12
1805 OLD SPRINGFIELD HWY
1807 OLD SPRINGFIELD HWY
1809 OLD SPRINGFIELD HWY LT15
1837 OLD SPRINGFIELD HWY
1841 OLD SPRINGFIELD HWY LT18
1850 OLD SPRINGFIELD HWY
1864 OLD SPRINGFIELD HWY
1868 OLD SPRINGFIELD HWY
1870 OLD SPRINGFIELD HWY
1902 OLD SPRINGFIELD HWY
1904 OLD SPRINGFIELD HWY
2001 REBEKAH DR LT5
2005 REBEKAH DR
2006 REBEKAH DR LT25
2009 REBEKAH DR LT7
2010 REBEKAH DR LT24
2013 REBEKAH DR LT8
2021 REBEKAH DR LT10
2022 REBEKAH DR LT23
2025 REBEKAH DR LT11
2027 REBEKAH DR LT12
2031 REBEKAH DR LT13
2032 REBEKAH DR LT21A
2035 REBEKAH DR LT14
2038 REBEKAH DR LT21B
2039 REBEKAH DR LT15
2041 REBEKAH DR LT16
2042 REBEKAH DR LT20
2043 REBEKAH DR LT17
2046 REBEKAH DR LT19
2050 REBEKAH DR LT18
2016 SANTA FE CT LT61
2017 SANTA FE CT LT64
2038 SANTA FE CT LT62
2039 SANTA FE CT LT 63
6602 SHEDDEN RD LT9
6603 SHEDDEN RD
6612 SHEDDEN RD LT10
6613 SHEDDEN RD
6618 SHEDDEN RD LT11
6624 SHEDDEN RD LT12
6630 SHEDDEN RD LT13

6635 SHEDDEN RD
6636 SHEDDEN RD LT14
6641 SHEDDEN RD LT20
6642 SHEDDEN RD LT15
6648 SHEDDEN RD LT16
6656 SHEDDEN RD LT17
6659 SHEDDEN RD LT18
1693 SPRINGFIELD HWY
1016 STATION DR LT2
1017 STATION DR LT37
1028 STATION DR LT3
1038 STATION DR LT4
1048 STATION DR LT5
1049 STATION DR LT36
1055 STATION DR LT35
1129 STATION DR LT34
1139 STATION DR LT33
1161 STATION DR LT32
1167 STATION DR LT31
1168 STATION DR LT48
1192 STATION DR LT47
1203 STATION DR LT28
1222 STATION DR LT46
1261 STATION DR LT27
1264 STATION DR LT45
1281 STATION DR LT24
1285 STATION DR LT23
1301 STATION DR LT22
1313 STATION DR
1316 STATION DR LT44
1377 STATION DR LT18
1380 STATION DR LT43
1387 STATION DR LT17
1398 STATION DR LT42
1401 STATION DR LT16
1424 STATION DR LT41
1425 STATION DR LT15
1437 STATION DR LT14
1440 STATION DR LT40
1455 STATION DR LT13
1472 STATION DR LT39
1486 STATION DR LT38
1487 STATION DR LT12
1493 STATION DR LT11
504 STRUDWICK DR LT4
505 STRUDWICK DR LT61

516 STRUDWICK DR
521 STRUDWICK DR LT55
522 STRUDWICK DR LT10
525 STRUDWICK DR LT54
529 STRUDWICK DR LT53
532 STRUDWICK DR LT12
536 STRUDWICK DR LT13
540 STRUDWICK DR LT14
541 STRUDWICK DR LT50
544 STRUDWICK DR LT15
545 STRUDWICK DR LT49
548 STRUDWICK DR LT16
553 STRUDWICK DR LT47
3016 TACOMA LN LT29
3017 TACOMA LN LT30
3045 TACOMA LN LT52
3062 TACOMA LN LT53
6722 TINNIN RD LT1
6728 TINNIN RD LT2
6734 TINNIN RD LT3
2033 VIRGINIA AVE
2039 VIRGINIA AVE LT3
2063 VIRGINIA AVE
2070 VIRGINIA AVE
2085 VIRGINIA AVE
2119 VIRGINIA AVE
2166 VIRGINIA AVE
2202 VIRGINIA AVE
2236 VIRGINIA AVE
2254 VIRGINIA AVE
1831 WOODRUFF AVE
1837 WOODRUFF AVE
1840 WOODRUFF AVE
1841 WOODRUFF AVE
1842 WOODRUFF AVE
1844 WOODRUFF AVE
1857 WOODRUFF AVE
1860 WOODRUFF AVE
1861 WOODRUFF AVE LT14
1863 WOODRUFF AVE LT17
1873 WOODRUFF AVE
1877 WOODRUFF AVE
1879 WOODRUFF AVE
1880 WOODRUFF AVE LT1
1886 WOODRUFF AVE
1901 WOODRUFF AVE LT34

1907 WOODRUFF AVE LT35
1911 WOODRUFF AVE
1912 WOODRUFF AVE
1945 WOODRUFF AVE LT1
1951 WOODRUFF AVE LT2
1954 WOODRUFF AVE
1955 WOODRUFF AVE
1974 WOODRUFF AVE
1978 WOODRUFF AVE LT34
2011 WOODRUFF AVE
2014 WOODRUFF AVE LT44
2225 WOODRUFF AVE
2234 WOODRUFF AVE
2245 WOODRUFF AVE
2256 WOODRUFF AVE
2257 WOODRUFF AVE
2053 YOUNT DR LT3
2056 YOUNT DR LT33
2082 YOUNT DR LT32
2085 YOUNT DR LT5
2108 YOUNT DR LT30
2109 YOUNT DR LT6
2116 YOUNT DR LT29
2117 YOUNT DR LT7
2131 YOUNT DR LT8
2134 YOUNT DR LT28
2148 YOUNT DR LT27
2155 YOUNT DR LT9
2161 YOUNT DR LT10
2166 YOUNT DR LT26
2179 YOUNT DR LT11
2182 YOUNT DR LT25
2197 YOUNT DR LT12
2200 YOUNT DR LT24
2215 YOUNT DR LT13
2234 YOUNT DR LT23
1041 SOUTHERN RAIL DR LT66
1057 SOUTHERN RAIL DR LT65
1066 SOUTHERN RAIL DR LT49
1082 SOUTHERN RAIL DR LT50
1134 SOUTHERN RAIL DR LT51
1137 SOUTHERN RAIL DR LT60
1153 SOUTHERN RAIL DR LT59
1175 SOUTHERN RAIL DR LT58
1188 SOUTHERN RAIL DR LT54
1193 SOUTHERN RAIL DR LT57

1199 SOUTHERN RAIL DR LT56
1213 SOUTHERN RAIL DR LT55

FOXPE
ENGINEERING FOR THE WATER ENVIRONMENT
2711 BERRYWOOD DRIVE
NASHVILLE, TENNESSEE 37204
FOXPE.COM

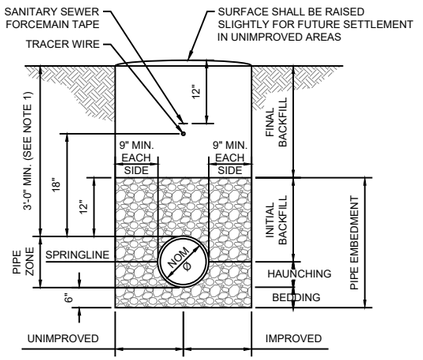
CITY OF RIDGETOP
I & I REDUCTION / SEWER REHABILITATION
4700-008

CITY OF RIDGETOP

NORTH
DRAWN BY: CAJ
APPROVED BY: JDF

REV	DATE	DESCRIPTION

TITLE: PROPOSED REHABILITATION LOCATION TABLE
DRAWING NO.: C4.0

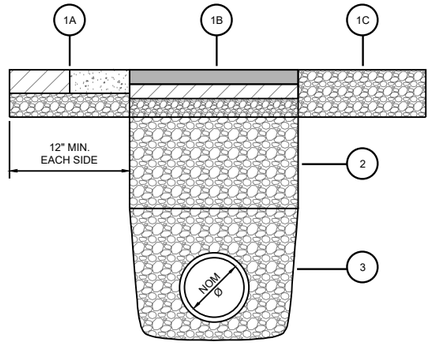


DETAIL 1

PVC PRESSURE PIPE INSTALLATION
NOT TO SCALE

NOTES:

1. PROVIDE 4'-0" MINIMUM COVER UNDER PUBLIC ROADWAYS.
2. BEDDING, HAUNCHING, AND INITIAL BACKFILL SHALL BE CRUSHED STONE COMPACTED TO 95% PER ATSM D698. #57/#67
3. FINAL BACKFILL SHALL BE COMMON EARTH, CRUSHED STONE, OR FLOWABLE FILL. CRUSHED STONE SHALL BE USED UNDER ALL IMPROVED SURFACES SUBJECT TO WHEEL LOAD. FLOWABLE FILL SHALL ONLY BE USED WHEN REQUIRED BY A DOT PERMIT REQUIREMENT & WITH ENGINEER APPROVAL.
4. PIPE TO BE CONTINUOUSLY SUPPORTED ALONG LENGTH OF PIPE BARREL EXCEPT AT BELL. BELL HOLES ARE REQUIRED SUCH THAT NO BEARING LOAD IS TAKEN BY THE BELL.
5. NOMINAL DIAMETER SHALL REFER TO CASING DIAMETER IN CASED INSTALLATIONS.
6. TRACER WIRE SHALL BE 14GA, THHN, SOLID COPPER WITH GREEN INSULATED JACKET AND WATERPROOF GREASE FILLED WIRE CONNECTORS AT JUNCTIONS. SANITARY SEWER FORCEMAIN TAPE SHALL BE INSTALLED (IN ADDITION TO TRACER WIRE) 12" BELOW GRADE.



DETAIL 2

PAVEMENT / IMPROVED SURFACE REPAIR
NOT TO SCALE

1A DRIVEWAYS AND PARKING LOTS
COMPACTED MINERAL AGGREGATE BASE. THE THICKNESS SHALL BE THE GREATER OF 8" OR THE EXISTING DEPTH OF BASE MATERIAL. THE MINERAL AGGREGATE SHALL BE COMPACTED 303-01, TYPE A, GRADING D ("33-P"), PER TDOT. SPECIFICATIONS. ASPHALTIC CONCRETE SURFACE COURSE SHALL BE MINIMUM 2" THICK, GRADING C, SECTION 307 SSRBC. PORTLAND CEMENT CONCRETE SURFACE COARSE SHALL BE MINIMUM 4" THICK, CLASS B. IRR (INFRARED) REPAIR METHODS ARE REQUIRED FOR ALL ASPHALTIC PAVEMENT REPAIRS.

1B CITY STREETS
COMPACTED MINERAL AGGREGATE BASE, 8" MINIMUM. A PRIME COAT SHALL BE APPLIED PRIOR TO 9" ASPHALTIC CONCRETE BINDER (307B MODIFIED), AND A TACK COAT APPLIED PRIOR TO 2" ASPHALTIC CONCRETE SURFACE (411E). IRR (INFRARED) REPAIR METHODS ARE REQUIRED FOR ALL ASPHALTIC PAVEMENT

1C REPAIRS.

GRAVEL TRAFFIC AREAS
COMPACTED MINERAL AGGREGATE BASE. THE THICKNESS SHALL BE THE GREATER OF 6" OR THE EXISTING DEPTH OF BASE MATERIAL. THE MINERAL AGGREGATE SHALL BE COMPACTED 303-01,

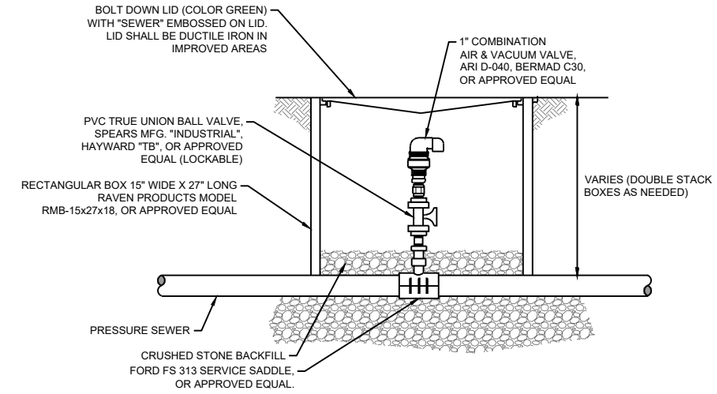
2 TYPE A, GRADING D ("33-P"), PER TDOT SPECIFICATIONS.

3 CRUSHED STONE BACKFILL PER SPECIFICATIONS

CRUSHED STONE BEDDING PER SPECIFICATIONS

GENERAL REQUIREMENTS

1. ALL STREET CUTS MUST BE REPAIRED IMMEDIATELY AFTER BACKFILLING AND ACCORDING TO THIS STANDARD.
2. A ROAD CUT PERMIT AND AN APPROVED TRAFFIC CONTROL PLAN ARE REQUIRED FOR ALL CUTS IN STREETS.
3. WHERE LONGITUDINAL CUTS ARE MADE THE OWNER RESERVES THE RIGHT TO REQUIRE ADDITIONAL RESURFACING BEYOND THE LIMITS OF THE REPAIR TO ENSURE THE PROPER RIDING REQUIREMENTS AND THE STABILITY OF THE PAVEMENT.
4. FOLLOWING TEMPORARY PAVEMENT REPAIRS, A MINIMUM OF 48 HOURS SHALL TRANSPIRE PRIOR TO COMPLETING PERMANENT PAVEMENT REPAIRS.
5. BARRICADES OR METAL PLATES SHALL BE PLACED AROUND ALL HOLES WIDER THAN 4 INCHES UNTIL CONCRETE CAN WITHSTAND TRAFFIC.
6. IMPROVED SURFACE RESTORATION INCLUDES ALL AREAS AND SURFACES EXCEPT AREAS TO RECEIVE FINAL GRADING AND SEEDING. IMPROVED SURFACES INCLUDES BUT NOT LIMITED TO STREETS, DRIVEWAYS, PARKING LOTS, SIDEWALKS, CURB AND GUTTER, AND GRAVEL TRAFFIC AREAS.
7. IMPROVED SURFACES SHALL BE CUT TO NEAT AND STRAIGHT LINES TO MINIMIZE THE WIDTH OF SURFACE REPLACEMENT AND TO PREVENT CRACKS OR DAMAGE IN THE SURROUNDING SURFACE.

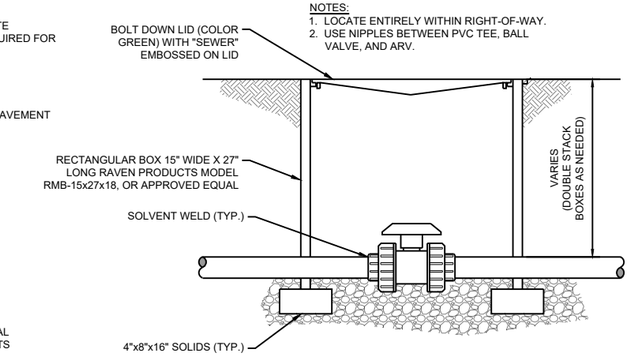


DETAIL 3

COMBINATION AIR / VACUUM VALVE (ARV)
NOT TO SCALE

NOTES:

1. LOCATE ENTIRELY WITHIN RIGHT-OF-WAY.
2. USE NIPPLES BETWEEN PVC TEE, BALL VALVE, AND ARV.

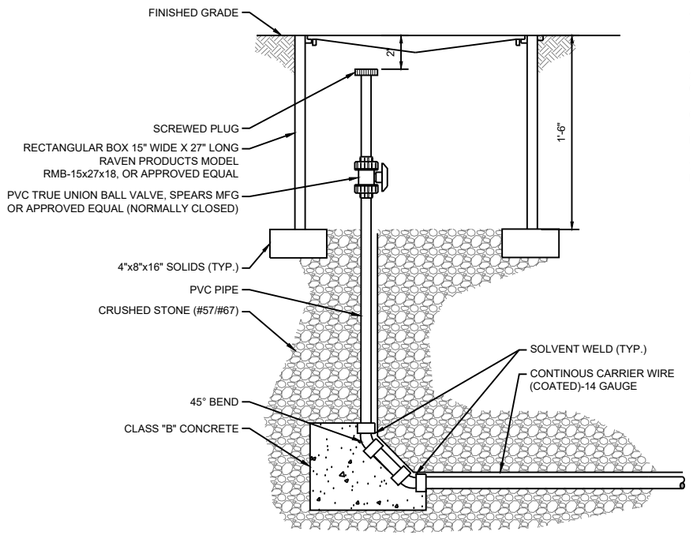


DETAIL 4

PVC BALL VALVE ASSEMBLY
NOT TO SCALE

NOTES:

1. PVC BALL VALVES TO BE USED ON 2" & 3" FORCEMAIN. BALL VALVES SHALL BE TRUE UNION BY SPEARS MFG. "INDUSTRIAL", HAYWARD "TB", OR APPROVED EQUAL.

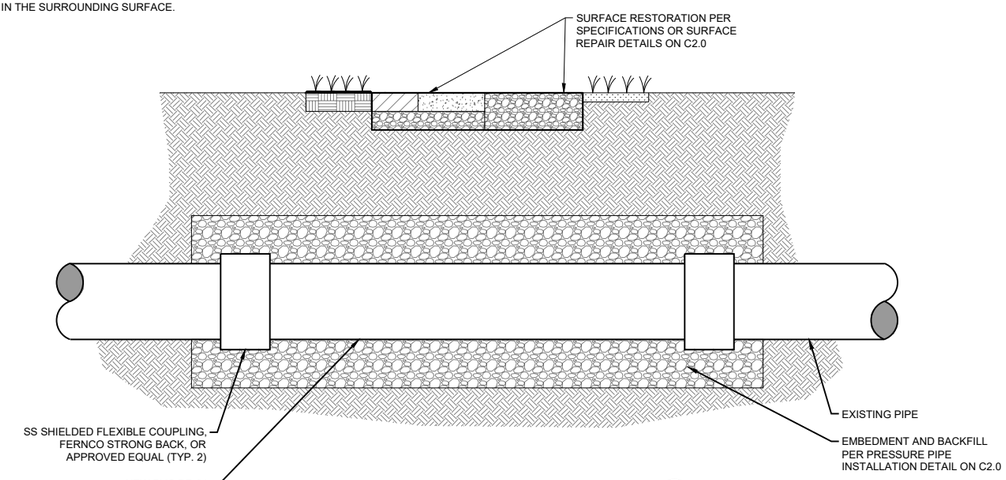


DETAIL 5

TERMINAL CLEANOUT (TYP.)
NOT TO SCALE

NOTES:

1. CLEANOUT SIZES SHALL MATCH THE SIZES OF THE FORCEMAINS ON WHICH THEY ARE TO BE INSTALLED.



DETAIL 6

POINT REPAIR (TYP.)
NOT TO SCALE

FOXPE
ENGINEERING FOR THE WATER ENVIRONMENT
2711 BERRYWOOD DRIVE
NASHVILLE, TENNESSEE 37204
FOXPE.COM

SIDNEY D. FOX — REGISTERED ENGINEER — STATE OF TENNESSEE

CITY OF RIDGETOP
I & I REDUCTION / SEWER REHABILITATION
4700-008

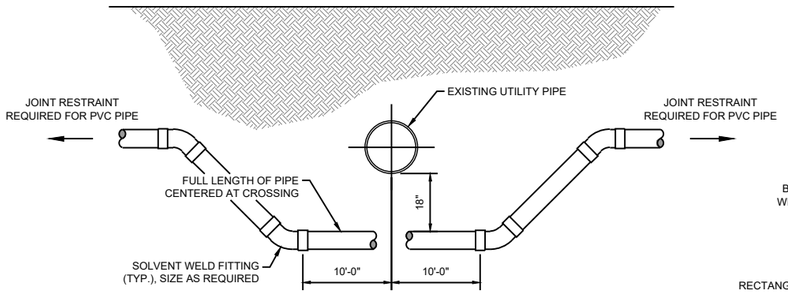
RIDGETOP — CITY LIMITS

NORTH	DRAWN BY: CAJ
	APPROVED BY: JDF

REV	DATE	DESCRIPTION

TITLE: CIVIL DETAILS

DRAWING NO.: C5.0

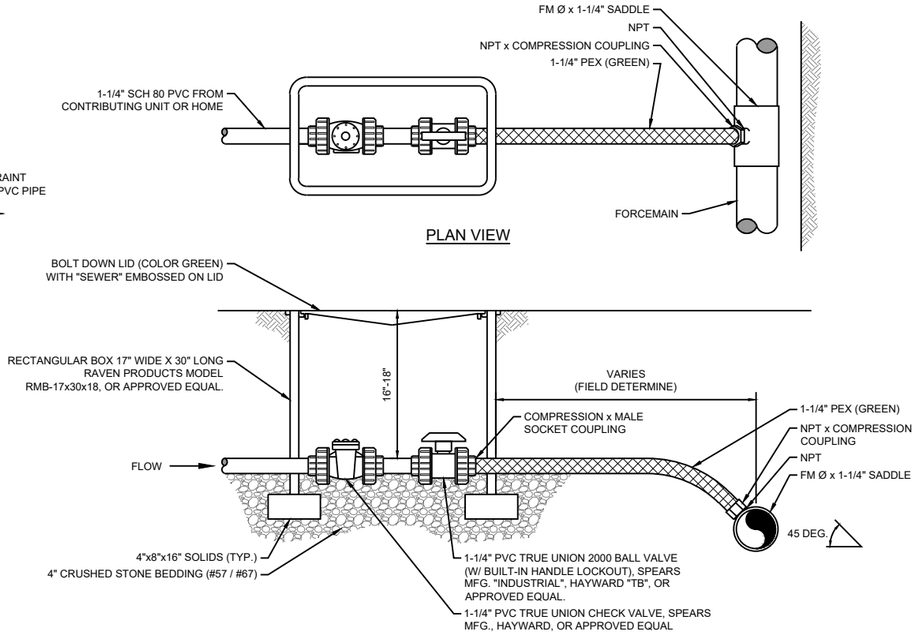


DETAIL 7

CONFLICTING UTILITY CROSSING
NOT TO SCALE

NOTES:

1. WHEREVER POSSIBLE DEFLECTION OF THE PIPE WILL BE USED TO AVOID EXISTING OBSTRUCTIONS. THIS CROSSING SHALL BE USED ONLY WHEN APPROVED BY ENGINEER.
2. WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, BOTH WATER AND SEWER SHALL BE CONSTRUCTED OF RESTRAINED JOINT PIPE AND SHALL BE PRESSURE TESTED TO ASSUME WATER TIGHTNESS.
3. HDD HDPE PIPE MAY BE USED IN THE ALTERNATIVE, FUSED JOINTS REQUIRED.



DETAIL 8

SERVICE SADDLE CONNECTION
NOT TO SCALE

NOTES:

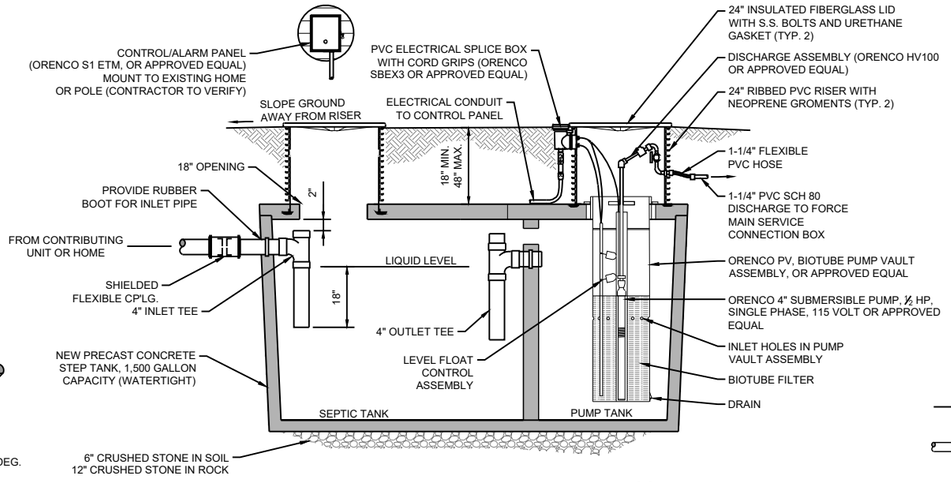
1. LOCATE SERVICES AT EXTENTS OF RIGHT-OF-WAY UNLESS NOTED OTHERWISE.
2. ALTERNATIVELY, HDPE FITTINGS & SERVICE LINE MAY BE USED. USE COMPRESSION FITTINGS & VALVES.

DETAIL 9

SERVICE SADDLE CONNECTION
NOT TO SCALE

NOTES:

1. TO BE USED WITH ENGINEER APPROVAL.

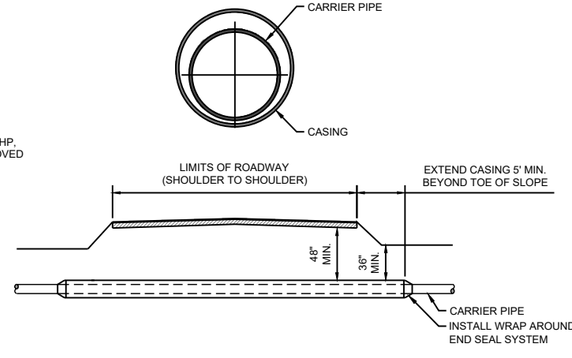


DETAIL 10

SEPTIC TANK EFFLUENT PUMP (STEP) INSTALLATION
NOT TO SCALE

NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR LOCATING THE EXISTING SEPTIC TANK ON THE SUBJECT PROPERTY.
2. REMOVE AND DISPOSE OF THE EXISTING SEPTIC TANK.
3. NEW SEPTIC TANK, INSPECTION PORTS, ACCESS RISERS AND TANK CONNECTIONS SHALL BE WATERTIGHT. TANK SHALL BE FIELD TESTED FOR WATER TIGHTNESS.
4. SEPTIC TANKS WITHIN TRAFFIC LOADING CONDITIONS SHALL BE DESIGNED BY AN ENGINEER TO MEET THE ANTICIPATED LOADING. DEPTH OF BURIAL, TRAFFIC OR NON-TRAFFIC LOADING SHALL BE CONSIDERED.
5. PLUMBING BETWEEN THE STRUCTURE AND SEPTIC TANK AND SEPTIC TANK AND FORCE MAIN SERVICE CONNECTION BOX SHALL BE WATERTIGHT AND INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODES.
6. ALL ELECTRICAL WORK SHALL BE INSTALLED BY A LICENSED ELECTRICIAN AND INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODES.



DETAIL 11

ROAD CROSSING
NOT TO SCALE

NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH TENNESSEE DEPT OF TRANSPORTATION RULES AND REGULATIONS FOR ACCOMMODATING UTILITIES WITHIN HIGHWAY RIGHTS OF WAY LATEST REVISION.
2. LOCATE EXISTING UTILITIES BEFORE CONSTRUCTION.
3. THE CASING PIPE SHALL BE HDPE, IPS DR17.
4. THE CARRIER PIPE SHALL BE HDPE, IPS DR11.

CARRIER PIPENORMAL SIZE(INCHES)	CASING PIPE NOMINAL DIAMETER (INCHES)
2	4
3	6
4	6
6	8
8	10

FOXPE
ENGINEERING FOR THE WATER ENVIRONMENT
2711 BERRYWOOD DRIVE
NASHVILLE, TENNESSEE 37204
FOXPE.COM

SIDNEY FOX — REGISTERED ENGINEER — STATE OF TENNESSEE

CITY OF RIDGETOP

I & I REDUCTION / SEWER REHABILITATION
4700-008

CITY OF RIDGETOP

NORTH	DRAWN BY: CAJ
	APPROVED BY: JDF

REV	DATE	DESCRIPTION

TITLE: CIVIL DETAILS

DRAWING NO.: C6.0