

WESTERN VIRGINIA WATER
AUTHORITY NOTES
AVAILABILITY No.: 16-001

GENERAL NOTES:
A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH THE WESTERN VIRGINIA WATER AUTHORITY TO BE HELD AT LEAST ONE (1) DAY PRIOR TO ANY CONSTRUCTION OF THE APPROVED WATER AND SANITARY SEWER FACILITIES.

A MINIMUM COVER OF THREE (3) FEET IS REQUIRED OVER PROPOSED LINES.

ALL SANITARY SEWER AND WATER CONNECTIONS TO EXISTING LINES SHALL BE COORDINATED WITH AND PERFORMED BY THE WESTERN VIRGINIA WATER AUTHORITY.

CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND UNCOVERING VALVE VAULTS, MANHOLES, ETC. AFTER PAVING AND ADJUSTING TO FINAL GRADE IF NECESSARY.

ALL EXISTING UTILITIES MAY NOT BE SHOWN OR MAY NOT BE SHOWN IN THE EXACT LOCATION. THE CONTRACTOR SHALL COMPLY WITH THE STATE WATER WORKS REGULATIONS, SECTION 12.05.03, WHERE LINES CROSS.

ALL TRENCHES IN EXISTING OR FUTURE HIGHWAY RIGHT-OF-WAYS SHALL BE COMPACTED ACCORDING TO CITY OF ROANOKE STANDARDS.

LINES SHALL BE STAKED PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL REFER TO THE WESTERN VIRGINIA WATER AUTHORITY STANDARD WATER AND SEWER REGULATIONS FOR CONSTRUCTION DETAILS AND INSTALLATION METHODS AS REQUIRED TO COMPLETE THE PROPOSED UTILITY FACILITIES AS INDICATED BY THESE DRAWINGS.

FIELD CORRECTIONS SHALL BE APPROVED BY THE WWA ENGINEERING DIVISION PRIOR TO SUCH CONSTRUCTION.

THE CONTRACTOR SHALL PROVIDE THE WESTERN VIRGINIA WATER AUTHORITY WITH CORRECT AS-BUILT PLANS PRIOR TO SUBSTANTIAL COMPLETION OF ANY NEW PUBLIC EXTENSIONS.

WATER NOTES:
WATER MAINS SHALL BE MINIMUM CLASS 350 DUCTILE IRON IN ACCORDANCE TO AWWA C151 OR DR-14 PVC IN ACCORDANCE WITH AWWA C-900.

WATER LATERALS FROM THE METER TO THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

THE CONSTRUCTION OF THE PROPOSED PUBLIC WATER MAIN AND ALL COMMERCIAL SERVICES SHALL BE IN COMPLIANCE WITH THE CURRENT WESTERN VIRGINIA WATER AUTHORITY REGULATIONS. REFER TO THESE REGULATIONS FOR COMPLETE DETAILS AND INSTALLATION METHODS.

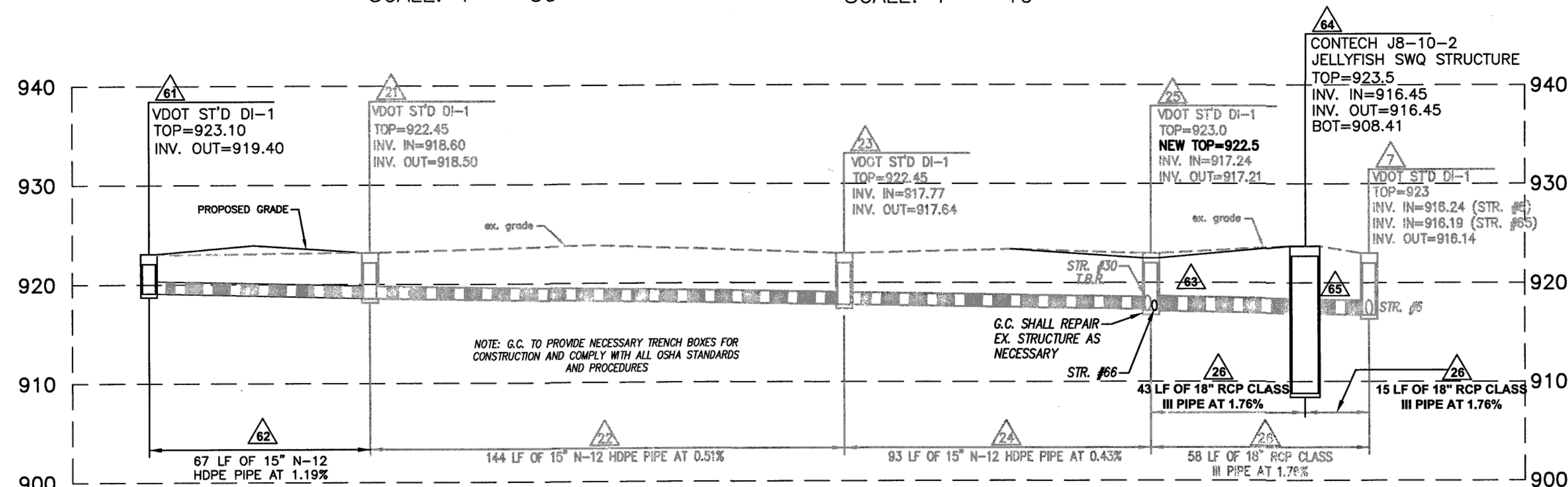
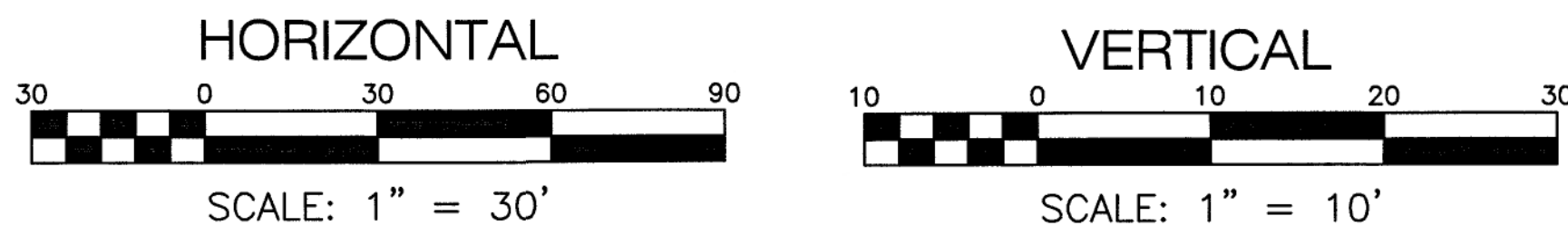
SEWER NOTES:
COMMERCIAL SANITARY SEWER LATERAL SHALL BE MINIMUM 6" PIPE INSTALLED AT SLOPES AS SHOWN ON THE PLAN.

THE LATERALS AND REQUIRED FITTINGS LOCATED WITHIN A PUBLIC RIGHT-OF-WAY OR PUBLIC EASEMENT SHALL BE OF THE SAME TYPE OF MATERIAL AS THE MAINLINE SEWER PIPE.

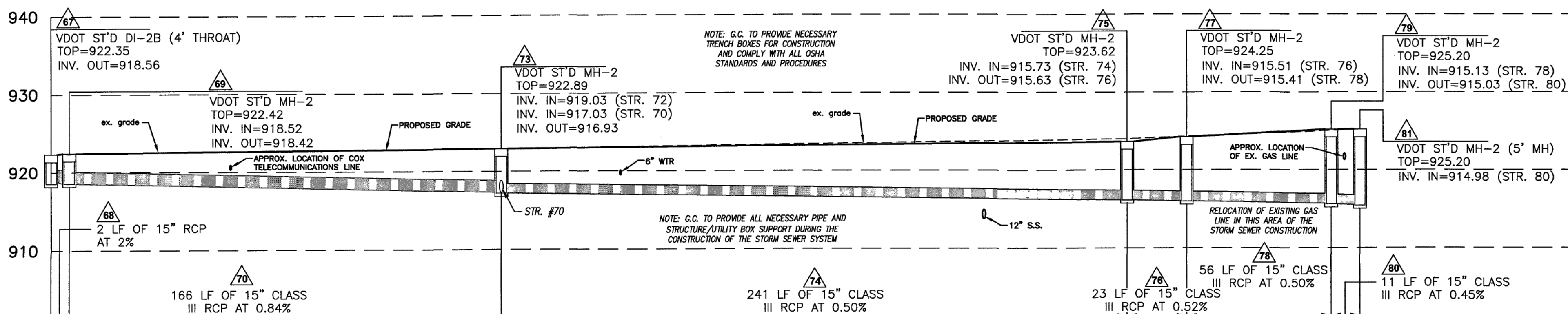
THE CONSTRUCTION OF THE PROPOSED PUBLIC SEWER MAIN AND ALL COMMERCIAL SERVICES SHALL BE IN COMPLIANCE WITH THE CURRENT WESTERN VIRGINIA WATER AUTHORITY REGULATIONS. REFER TO THESE REGULATIONS FOR COMPLETE DETAILS AND INSTALLATION METHODS.

ALL SANITARY SEWER PIPING SHALL BE PVC (POLYVINYL CHLORIDE) MANUFACTURED IN ACCORDANCE WITH ASTM DESIGNATION 3034-77 (SDR 35) UNLESS OTHERWISE NOTED ON THE PLANS/PROFILES.

ALL MANHOLE FRAMES AND COVERS SHALL BE WATERTIGHT AND ALL COVERS SHALL BE BOLT-DOWN MANHOLE COVERS (SEE DETAIL S-05 AND S-06) WHERE APPLICABLE.



STORM SEWER PROFILE (61-7)
1"=30' HORIZONTAL
1"=10' VERTICAL



STORM SEWER PROFILE (67-81)
1"=30' HORIZONTAL
1"=10' VERTICAL

PROPOSED STORM
SEWER SCHEDULE:

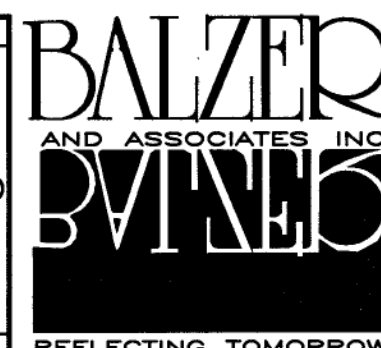
- STR. 1A-42
PHASE 1
STR. 43-60
PHASE 2
- VDOT ST'D DI-1
TOP=923.10
INV. OUT=919.40
- 67 LF OF 15" N-12
HDPE PIPE AT 1.19%
- 43 LF OF EX. 18" RCP
CLASS III PIPE AT 1.76%
- CONTECH J8-10-2
JELLYFISH SWQ STRUCTURE
(TREATMENT AREA 1.34 AC.)
TOP=923.5
INV. IN=916.45
INV. OUT=916.45
BOT=908.41
- 15 LF OF EX. 18" RCP
CLASS III PIPE AT 1.76%
- BLDG. ROOF LEADERS
430 LF OF 10" SCH. 40 PVC PIPE
AT MIN. 2% W/ (6) 6" CO.
SET FLUSH WITH FINAL GRADE
INV. OUT=917.24 (ex. str. 25)
- VDOT ST'D DI-2B (4' THROAT)
TOP=922.35
INV. OUT=918.56
- 2 LF OF 15" RCP
AT 2%
- VDOT ST'D MH-2
TOP=922.42
INV. IN=918.52
INV. OUT=918.42
- 166 LF OF 15" RCP
AT 0.84%
- VDOT ST'D DI-2B (6' THROAT)
TOP=922.82
INV. OUT=919.07
- 2 LF OF 15" RCP
AT 2%
- VDOT ST'D MH-2
TOP=922.89
INV. IN=919.03 (STR. 72)
INV. IN=917.03 (STR. 70)
INV. OUT=916.93
- 241 LF OF 15" RCP
AT 0.50%
- VDOT ST'D MH-2
TOP=923.62
INV. IN=915.73
INV. OUT=915.63
- 23 LF OF 15" RCP
AT 0.52%
- VDOT ST'D MH-2
TOP=924.25
INV. IN=915.51
INV. OUT=915.41
- 56 LF OF 15" RCP
AT 0.50%
- VDOT ST'D MH-2
TOP=925.2
INV. IN=915.13
INV. OUT=915.03
- 11 LF OF 15" RCP
AT 0.45%
- VDOT ST'D MH-2 (5' MH)
TOP=925.2
INV. IN=914.98

EX. STORM STRUCTURE SCHEDULE:

- VDOT ST'D MH-2
TOP=924.28
INV. IN=919.35 (STR. #20)
INV. IN=919.08
INV. OUT=918.98
- 91 LF OF 18" RCP
CLASS III PIPE AT 1.45%
- VDOT ST'D DI-1
TOP=922.29
INV. IN=917.66
INV. OUT=917.56
- 104 LF OF 24" RCP
CLASS III PIPE AT 0.37%
- VDOT ST'D DI-1
TOP=922.62
INV. IN=918.00 (STR.16)
INV. IN=917.18 (STR.50)
INV. OUT=917.08
- 186 LF OF 24" RCP
CLASS III PIPE AT 0.45%
- VDOT ST'D DI-1
TOP=923.16
INV. IN=916.24
INV. IN=916.19 (STR.26)
INV. OUT=916.14
- 95 LF OF 24" RCP
CLASS III PIPE AT 0.43%
- VDOT ST'D DI-1
TOP=922.00 NEW TOP=922.3
INV. IN=915.73
INV. OUT=915.63
- 95 LF OF 30" RCP
CLASS III PIPE AT 0.26%
- VDOT ST'D DI-1
TOP=924.31 NEW TOP=922.5
INV. IN=915.38
INV. OUT=915.28
- 134 LF OF 30" RCP
CLASS III PIPE AT 0.40%
- VDOT ST'D DI-7 (GRATE III)
TOP=924.0
INV. IN=914.75
INV. OUT=914.65
- 81 LF OF 38"x24" RCP
CLASS III ELLIPTICAL
PIPE AT 0.43%
INV. OUT=914.30
(EX. STR. MM)
- VDOT ST'D DI-3C
(6' THROAT)
TOP=923.7
INV. OUT=918.24
- 47 LF OF 15" RCP
CLASS III PIPE AT 0.50%
- VDOT ST'D DI-2A
TOP=923.91
INV. OUT=920.01
- 35 LF OF 15" RCP
CLASS III PIPE AT 0.60%
- VDOT ST'D DI-2A
TOP=923.85
INV. IN=919.80
INV. OUT=919.70
- 54 LF OF 15" RCP
CLASS III PIPE AT 0.65%
INV. OUT=919.35
(STR. #3)
- VDOT ST'D DI-1
TOP=922.45
NEW INV. IN=918.60
INV. OUT=918.50
- 144 LF OF 15" N-12
HDPE PIPE AT 0.51%
- VDOT ST'D DI-1
TOP=922.45
INV. IN=917.77
INV. OUT=917.64
- 93 LF OF 15" N-12
HDPE PIPE AT 0.43%
- VDOT ST'D DI-1
TOP=923.00 NEW TOP=922.5
INV. IN=917.24
INV. IN=917.24 (STR.30)
NEW INV. IN=917.24 (ROOF DRAIN)
INV. OUT=917.21
- 58 LF OF 18" RCP
CLASS III PIPE AT 1.76%
- OMITTED
- OMITTED
- VDOT ST'D DI-1 T.B.R.
TOP=923.80
INV. OUT=917.83
- 75.5 LF OF 18" RCP T.B.R.
CLASS III PIPE AT 0.78%
- ex. di-36 curb inlet
(6' throat)
TOP=921.87
Inv. 18"RCP(Out)=918.82'

EXISTING S.S. SCHEDULE:

- S.S. MH (ST'D S-1)
TOP=923.97
INV. IN=917.86
INV. OUT=917.76
- 220 LF OF 10" SDR-35
PVC PIPE AT 0.40%
- S.S. MH (ST'D S-1)
TOP=923.35
INV. IN=916.88
INV. OUT=916.78
- 66 LF OF 10" SDR-35
PVC PIPE AT 1.21%
- S.S. MH (ST'D S-1)
TOP=921.98
12" INV. IN=915.78
10" INV. IN=915.98
6" INV. IN=916.18
12" INV. IN=915.68
SHELF=916.68
- 237 LF OF 12" SDR-35
PVC PIPE AT 0.25%
- S.S. MH (ST'D S-1)
TOP=922.59
12" INV. IN=915.09
6" INV. IN=915.29
12" INV. IN=914.97
SHELF=915.99
- 292 LF OF 12" SDR-35
PVC PIPE AT 0.22%
- S.S. MH (ST'D S-1)
TOP=923.34
12" INV. IN=914.34
6" INV. IN=914.49
12" INV. OUT=914.24
SHELF=915.24



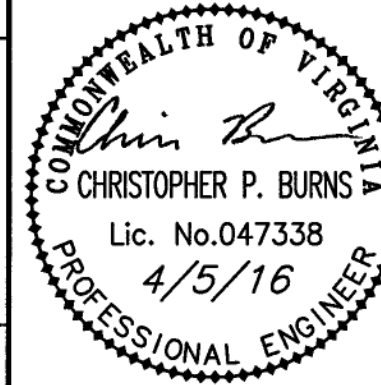
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Balzer and Associates, Inc.

1208 Corporate Circle
Roanoke, VA 24018
540-772-9580
FAX 540-772-8050



BRIDGES - BLOCK A APARTMENTS

UTILITY SCHEDULES

CITY OF ROANOKE, VIRGINIA

DRAWN BY LAR
DESIGNED BY BTC
CHECKED BY CPB
DATE 2/4/2016
SCALE N/A

REVISIONS:
3/14/2016
3/24/2016
4/5/2016

APPROVED
MAY 16 2016

SHEET NO.

C06

JOB NO. 04150058.00