

MEMORANDUM

Date: June 22, 2016

To: Bidders for:
14 Riverside Drive Renovations
14 Riverside Drive, Asheville, North Carolina 28801

From: Shane Elliott, LEED AP
Mathews Architecture, P.A.

Re: **ADDENDUM NO. 2**
14 Riverside Drive
City of Asheville

The attached is **Addendum No. 2**, which includes additions, deletions, modifications, and/or clarifications to the above referenced Project Documents released for bids on June 13, 2016, and dated October 27th 2015. Please incorporate this into your Bid Documents upon receipt and sign the "Form of Proposal" acknowledging receipt of Addendum No. 2. The date for receipt of bids remains unchanged. It is 2:00 PM, Wednesday, July 6th, 2016.

ADDENDUM ITEMS

ITEM NO. C -1:

Please find attached Revise Drawings C3 and C6.

The GC shall include the following water and sewer fees in their lump sum bid price. This will be required to be paid prior to the release of the building permit.

MSD

Sewer Allocation:	\$170.00
Sewer Connection to MH:	\$650.00
Fee for 1" Meter:	\$5,560.00

City of Asheville	
New Tap and 1" Meter	\$5,106.40

ELECTRICAL ITEM E-1

REFERENCE SHEET E1.0, DETAIL 1, Community Hall: Two dual head egress fixtures denoted as type "EX" should be denoted as type "EB".

ELECTRICAL ITEM E-2

REFERENCE SHEET E1.0, DETAIL 2, & SHEET E0.2, DETAIL 4: Meter base/service disconnect mounting height, above finish floor level, is to be maximum allowed by NEC to top breaker handle, or bottom of panel to be 1' (one foot) clear of 100 year flood level, if top breaker handle lower then maximum allowed by NEC.

ELECTRICAL ITEM E-3

REFERENCE SHEET E0.2, DETAIL 4: Meter base/service disconnect breaker size is to be 200 ampere.

ELECTRICAL ITEM E-4

REFERENCE SHEET E0.2, DETAIL 4: Service wiring from meter/service disconnect to interior panel is to be 3 phase – 4#3/0, 1#6G, 2" RMC

ELECTRICAL ITEM E-5

REFERENCE SHEET E0.2, DETAIL 4, NOTE 4: Surge protective device rating of TVSS (SPD) in type 2 location is to be 160 kA per phase/80 kA per mode, see specifications 26 41 13.2.1.A for additional requirements.

ATTACHMENTS:

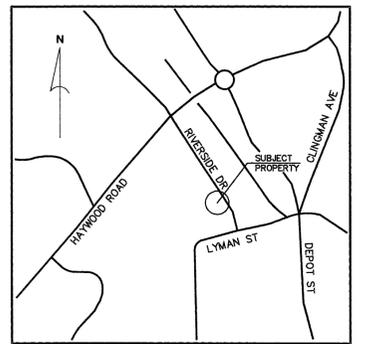
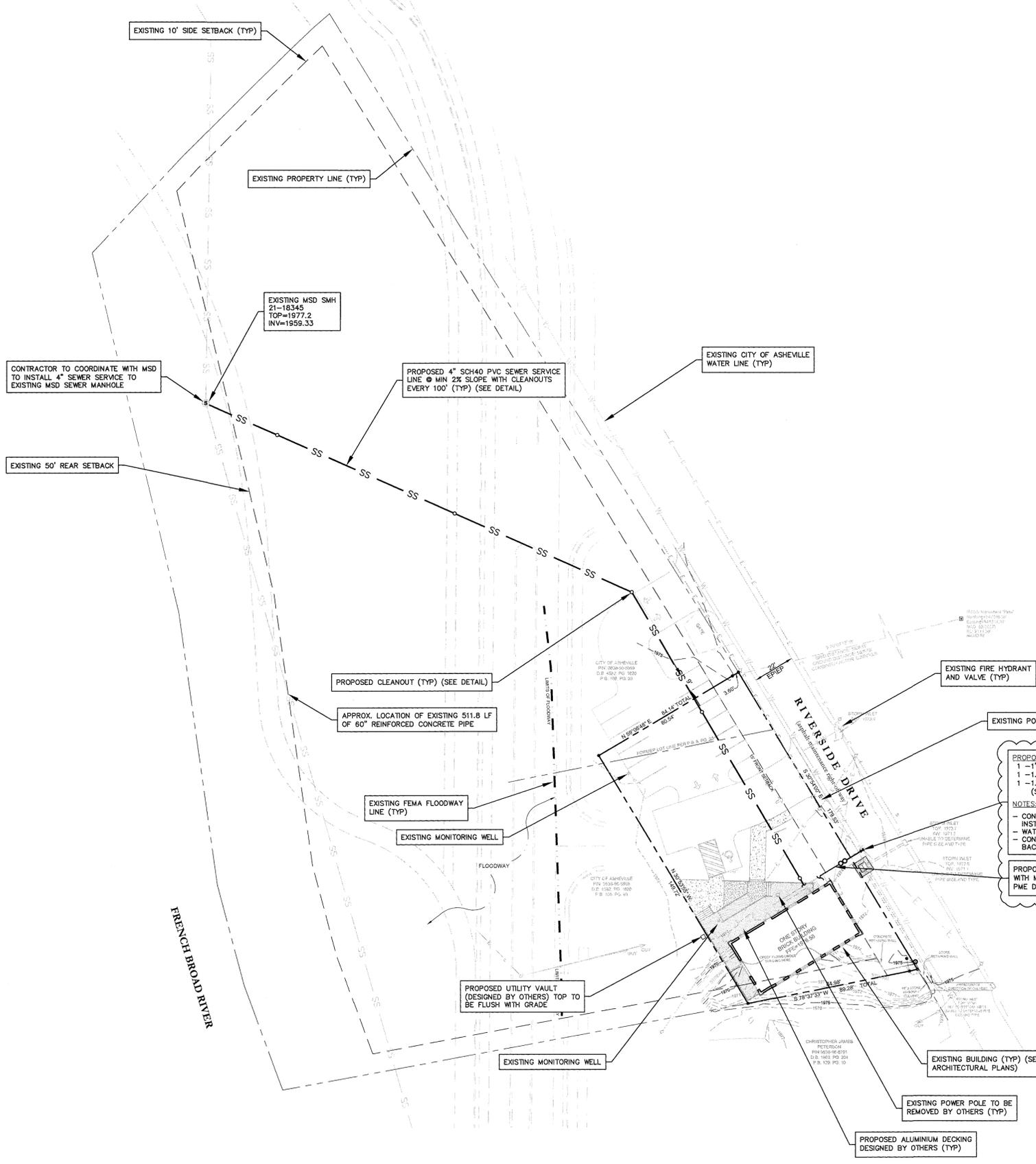
- Revised C-3
- Revised C-6

Thank You,



Shane Elliott, LEED AP

Mathews Architecture, PA



VICINITY MAP
(NOT TO SCALE)

DEVELOPMENT DATA	
OWNER/DEVELOPER:	CITY OF ASHEVILLE 70 COURT PLAZA ASHEVILLE, NC 28802
CIVIL ENGINEER:	CIVIL DESIGN CONCEPTS, P.A. 168 PATTON AVENUE ASHEVILLE, NORTH CAROLINA 28801 JESSE GARDNER, P.E. (828) 252-5388
ARCHITECT:	MATHEWS ARCHITECTURE, P.A. 34 WALL STREET, SUITE 307 ASHEVILLE, NORTH CAROLINA 28805 JAMES MATHEWS (828) 253-4300
LANDSCAPE ARCHITECT:	SITE DESIGN STUDIO PO BOX 8359 ASHEVILLE, NORTH CAROLINA 28814 JASON GILLILAND (828) 545-5989
PIN:	9638-96-5969; 9638-96-7846
ZONING:	RIVER DISTRICT
PROJECT LOCATION:	14 RIVERSIDE DRIVE ASHEVILLE, NC
PROJECT AREA:	0.32 ACRES
SETBACK:	FRONT: 15' SIDE: 10' REAR: 20' MIN 50' MAX
USE:	1928 SF COMMUNITY BUILDING 1310 SF DECK AREA
PARKING CALCS:	REQUIRED: 7 MIN, 13 MAX. PROVIDED: 13 SPACES
SOIL TYPE:	A
IMPERVIOUS CALCULATIONS:	
PIN: 9638-96-5969	2.55 AC
PRE-DEVELOPMENT IMPERVIOUS TOTAL:	0 SF
POST-DEVELOPMENT IMPERVIOUS TOTAL:	2828 SF
PIN: 9638-96-7846	0.07 AC (2.6%)
PRE-DEVELOPMENT IMPERVIOUS TOTAL:	0.32 AC
POST-DEVELOPMENT IMPERVIOUS TOTAL:	5772 SF
	0.13 AC (41.4%)

NOTES

- SEE SEWER DETAIL SHEETS FOR ALL GENERAL SEWER NOTES. CONTRACTOR RESPONSIBLE FOR INCLUSION OF DETAILS SHEETS WITH ALL SEWER PLANS.
- ALL CROSSINGS IDENTIFIED BY THE FOLLOWING SYMBOL: CROSSINGS TO MAINTAIN MSD REQUIRED VERTICAL SEPARATION. CONTRACTOR TO CONTACT ENGINEER ON ANY CROSSING THAT DOES NOT MEET THIS SEPARATION, OR SEPARATION IS CLOSER THAN 1'. REFER TO GENERAL NOTES ON SEWER DETAIL SHEET FOR SEPARATION REQUIREMENTS BETWEEN UTILITIES.
- DISTANCES LISTED ON PLANS ARE MEASURED HORIZONTALLY FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. CONTRACTOR SHALL DETERMINE EXACT LENGTHS OF PIPE NECESSARY TO ACHIEVE SLOPES AS SHOWN ON PLAN/PROFILE DRAWINGS.
- TYPICAL EASEMENTS FOR SEWER LINES LOCATED OUTSIDE ESTABLISHED UTILITY EASEMENTS OR ROAD RIGHT-OF-WAYS SHALL BE AS SHOWN. THE ENTIRE SEWER EASEMENT MUST BE CLEAR AND REMAINED CLEARED OF TREE PLANTINGS, EXISTING TREES, AND ANY PERMANENT STRUCTURES.
- NO PORTION OF THIS PROJECT LIES WITHIN THE 100-YR FEMA FLOODPLAIN.

NOTES

- SEE WATER DETAIL SHEETS FOR ALL GENERAL WATER NOTES. CONTRACTOR RESPONSIBLE FOR INCLUSION OF DETAILS SHEETS WITH ALL WATER PLANS.
- WATER METERS ARE TO BE PLACED MAXIMUM OF 5' OFF EDGE OF PAVEMENT/SIDEWALK WHEN A UTILITY STRIP IS PRESENT. METERS SHALL BE INSTALLED WITHIN STRIP. WHEN SIDEWALK IS CONSTRUCTED AND NO STRIP IS AVAILABLE, SERVICE LINES CROSSING SIDEWALK SHALL BE CONSTRUCTED WITH PVC SLEEVE EXTENDING 6" ON EITHER SIDE OF SIDEWALK PER CITY OF ASHEVILLE STANDARDS AND SPECIFICATIONS.
- TYPICAL EASEMENTS FOR WATER LINES LOCATED OUTSIDE ESTABLISHED UTILITY EASEMENTS OR ROAD RIGHT-OF-WAYS SHALL BE A 20 FEET. THE ENTIRE WATER EASEMENT MUST BE CLEAR AND REMAINED CLEARED OF TREE PLANTINGS, EXISTING TREES, AND ANY PERMANENT STRUCTURES.

PROPOSED
1 - 1" DOMESTIC METER
1 - 1.5" DOUBLE CHECK ASSEMBLY (SEE DETAIL)
1 - 1.5" COPPER WATER SERVICE BETWEEN TAP AND METER (SEE DETAILS)

NOTES:
- CONTRACTOR TO COORDINATE WITH THE CITY OF ASHEVILLE FOR INSTALLATION OF METER AND METER BOX.
- WATER METER BEYOND METER TO BE PRIVATELY OWNED AND MAINTAINED.
- CONTRACTOR TO REFER TO TO THE CITY OF ASHEVILLE LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES FOR MAKE AND MODEL.

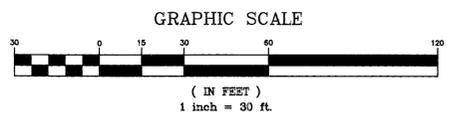
PROPOSED 1.5" SDR21 PVC WATER LINE WITH MIN 3' COVER (SEE DETAIL) (SEE PME DRAWINGS FOR CONTINUATION)



ADDENDUM 2

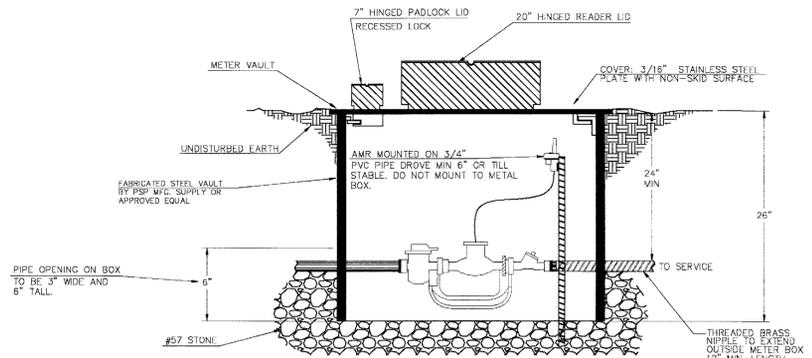


UTILITY PLAN



GENERAL NOTES

- DUAL CHECK ON OUTLET
 - REMOVE READING ASSEMBLY TO BE COMPATIBLE WITH CITY OF ASHEVILLE READING DEVICES
 - ALL METER SERVICE FITTINGS AND APPURTENANCES IN CONTACT WITH WATER SHALL BE LEAD FREE TYPE PRODUCTS.
- MATERIAL: COPPER-STEEL
 METHOD OF CONSTRUCTION: 3/4" STEEL PLATE WELDED & POWDERCOATED
 LID: 3/16" STAINLESS STEEL PLATE-REINFORCED WITH 20"x10" READER DOOR AND PADLOCK RECESSED JOOK.
 WEIGHT: 200lbs SIZE: 36" X 22" X 26" D



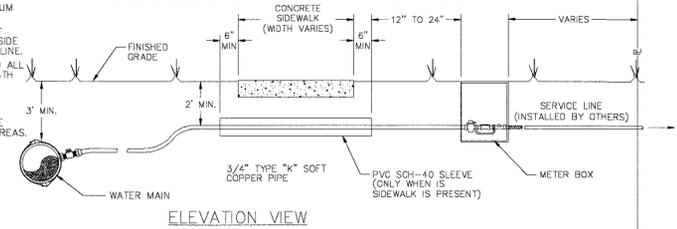
1" WATER METER BOX

DATE	REVISIONS	STD. NO.
11/11	REVISED BOX DETAILS	W.02

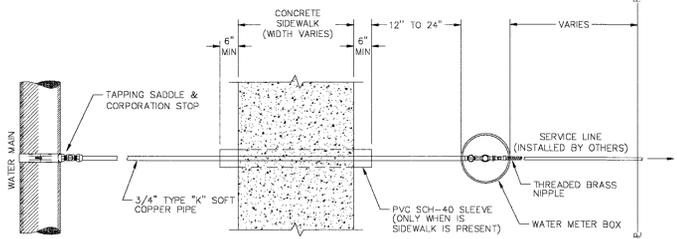
GENERAL NOTES:

- PVC SLEEVE SHALL EXTEND A MINIMUM OF 6" EITHER SIDE OF SIDEWALK.
- PVC SLEEVE DIAMETER SHALL BE AT LEAST 1/2" LARGER THAN THE OUTSIDE DIAMETER OF THE COPPER SERVICE LINE.
- SLEEVE REQUIREMENT APPLICABLE TO ALL SERVICE LINES INSTALLED UNDERNEATH SIDEWALKS, REGARDLESS OF SIZE.
- MINIMUM LENGTH OF BRASS NIPPLE SHALL BE 12 INCHES (12").
- METERS SHALL BE LOCATED OUTSIDE DITCHES AND IN RELATIVELY FLAT AREAS.

ALL OTHER UTILITIES SHALL BE LOCATED A MINIMUM OF 3' AWAY FROM WATERLINE



ELEVATION VIEW



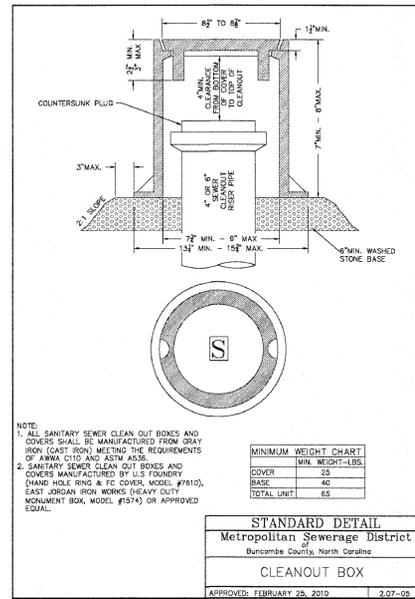
PLAN VIEW

TYPICAL WATER SERVICE INSTALLATION WITH SIDEWALK

DATE	REVISIONS	STD. NO.
		W.06

GENERAL NOTES FOR WATER

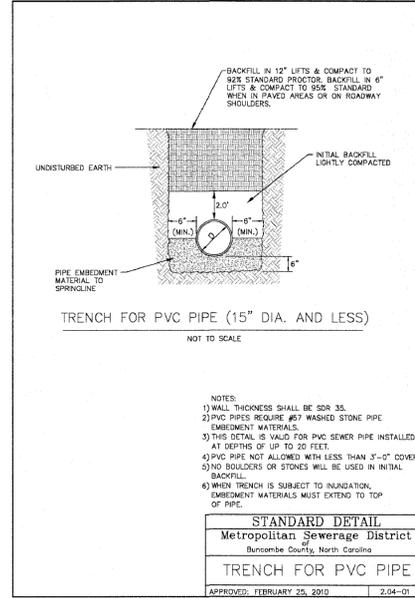
- WATER CONSTRUCTION ON THIS SITE MUST BE AUTHORIZED BY PERMITS ISSUED BY THE CITY OF ASHEVILLE WATER DEPARTMENT. ALL SITING SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS, AND REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS.
- CONTRACTOR TO VERIFY WITH ENGINEER THAT THE REQUIRED WATER PERMITS AND ASSOCIATED NON-WATER PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE UNDER THE INSPECTION OF THE ENGINEER, THE OWNER, AND THE CITY OF ASHEVILLE. THE ENGINEER SHALL PERIODICALLY INSPECT THE PROGRESS OF INSTALLATION AND SHALL COMPLETE A FINAL WATER AND SEWER INSPECTION. THE CONTRACTOR SHALL FURNISH, SECURE, AND PROVIDE ALL NECESSARY TESTING MATERIALS, EQUIPMENT, PROCEDURES, AND CERTIFIED LABORATORY TEST RESULTS FOR USE WITH ENGINEERS FINAL CERTIFICATION OF COMPLETION. ANY WORK COVERED PRIOR TO ENGINEER'S INSPECTION IS SUBJECT TO UNCOVERING AND BACKFILLING AT THE CONTRACTOR'S EXPENSE.
- ALL WORK MUST BE PERFORMED BY A NORTH CAROLINA LICENSED UTILITY CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION, AND TO NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROTECT EXISTING AND NEWLY BUILT UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4646 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS. NOTIFY THE ENGINEER AT LEAST 72 HOURS BEFORE STARTING CONSTRUCTION ACTIVITIES.
- EROSION CONTROL IS FIELD PERFORMANCE BASED AND CONTRACTOR SHALL INSTALL AND MAINTAIN ANY EROSION CONTROL MEASURES NECESSARY TO ASSURE MAXIMUM PROTECTION OF THE SITE. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL MEASURES REQUIRED TO CONTROL SEDIMENT DURING INSTALLATION ALL WATER PIPES AND APPURTENANCES.
- ALL WATER LINES AND SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH NC PLUMBING CODES AND THE CITY OF ASHEVILLE WATER RESOURCES DEPARTMENT DESIGN & CONSTRUCTION MANUAL. WATER LINE AND METER ASSEMBLY LOCATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO FINAL VERIFICATION. COORDINATE EXACT LOCATIONS OF SERVICE LINES AND APPURTENANCES WITH THE ARCHITECTURAL, PLUMBING, AND LANDSCAPING PLANS.
- CONTRACTOR TO PROVIDE 5' MIN. LATERAL SEPARATION BETWEEN WATER LINE AND OTHER UNDERGROUND UTILITIES. SEE DETAILS FOR GENERAL NOTES CONCERNING WATER MAIN INSTALLATION REQUIREMENTS.
- A 3' COVER DEPTH SHALL BE MAINTAINED FOR ALL PROPOSED WATER LINES, ANY NECESSARY FIELD ADJUSTMENTS MUST BE APPROVED BY THE ENGINEER AND THE CITY INSPECTOR.
- INSTALL FERROUS PIPING FOR BOTH WATER AND SEWER WITHIN 10' OF A CROSSING IF:
 - SEWER LINE CROSSES OVER WATER, OR
 - VERTICAL CLEARANCE BETWEEN WATER AND SEWER IS LESS THAN 18". MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SEWER AND WATER MAINS UNLESS LAID IN SEPARATE TRENCHES WITH THE BOTTOM OF THE WATER LINE AT LEAST 18" ABOVE THE TOP OF SEWER OR USE FERROUS MATERIAL FOR BOTH WATER AND SANITARY SEWER.
- MAINTAIN 18" VERTICAL SEPARATION BETWEEN STORM DRAIN AND WATER OR THE WATER MAIN MUST BE CONSTRUCTED OF FERROUS MATERIALS FOR A DISTANCE OF AT LEAST 10- FEET TO EITHER SIDE OF THE CROSSING.
- CITY OF ASHEVILLE OWNERSHIP AND MAINTENANCE ENDS AT WATER METER AND/OR THE FIRE LINE ISOLATION VALVE. WATER SYSTEM BEYOND IS TO BE PRIVATELY OWNED AND MAINTAINED.
- METERS, VAULTS, AND FIRE HYDRANTS ARE TO BE PLACED IN RELATIVELY FLAT AREAS.
- BRASS FITTINGS MUST BE LEAD FREE PER CITY OF ASHEVILLE REQUIREMENTS.
- CONTRACTOR RESPONSIBLE FOR ADJUSTING EXISTING WATER APPURTENANCES AS NECESSARY DUE TO ANY SITE CONSTRUCTION OR INSTALLATION.
- TRENCH BACKFILL AND COMPACTION TESTING SHALL BE PERFORMED BY A CERTIFIED SOILS LABORATORY UNDER ALL PAVED AREAS.
- CONTRACTOR SHALL SUPPLY THE ENGINEER WITH RECORD OF DEVIATIONS FROM PLANS FOR PREPARATION OF FINAL RECORD DRAWINGS.
- PRESSURE TEST WATER MAINS TO 200 PSI MIN. AND 250 PSI MAX. AS PER CITY OF ASHEVILLE REQUIREMENTS. DISINFECT WATER LINES AND PROVIDE ACCEPTABLE BACTERIOLOGICAL TEST FROM A CERTIFIED TESTING LABORATORY FOR USE WITH THE ENGINEER'S CERTIFICATION OF COMPLETION.
- THE PERMITS REQUIRE CERTIFICATION OF COMPLETION BY THE ENGINEER OF THE WATER SYSTEM PRIOR TO ISSUANCE OF FINAL OPERATION APPROVAL BY THE CITY OF ASHEVILLE. SERVICE WILL BE PROVIDED ONCE FINAL CLOSEOUT SUBMITTALS HAVE BEEN APPROVED BY THE CITY OF ASHEVILLE'S ENGINEERING DEPARTMENT.
- CROSS-CONNECTION CONTROL PROTECTION DEVICES ARE REQUIRED BASED ON DEGREE OF HEALTH HAZARD INVOLVED AS LISTED IN APPENDIX-B OF THE RULES GOVERNING PUBLIC WATER SYSTEMS IN NORTH CAROLINA. THESE GUIDELINES ARE THE MINIMUM REQUIREMENTS. THE DEVICES SHALL BE LISTED ON THE UNIVERSITY OF SOUTHERN CALIFORNIA APPROVED ASSEMBLIES. THEY SHALL BE INSTALLED AND TESTED (BOTH INITIAL AND PERIODIC TESTING THEREAFTER) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS OR THE LOCAL CROSS-CONNECTION CONTROL PROGRAM, WHICHEVER IS MORE STRINGENT.



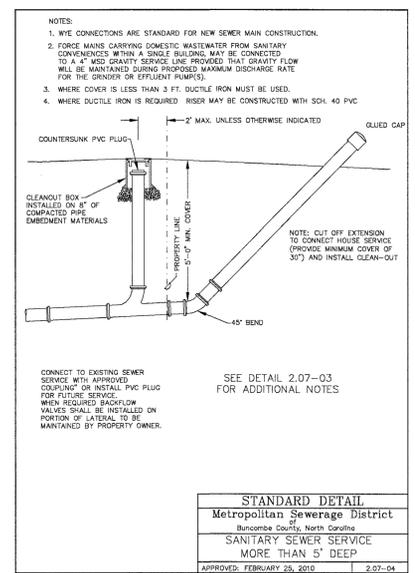
MINIMUM WEIGHT CHART

COVER	MIN. WEIGHT - LBS.
COVER	25
BASE	40
INITIAL LIFT	65

STANDARD DETAIL
 Metropolitan Sewerage District
 Buncombe County, North Carolina
 CLEANOUT BOX
 APPROVED: FEBRUARY 25, 2010 2.07-05



STANDARD DETAIL
 Metropolitan Sewerage District
 Buncombe County, North Carolina
 TRENCH FOR PVC PIPE
 APPROVED: FEBRUARY 25, 2010 2.04-01

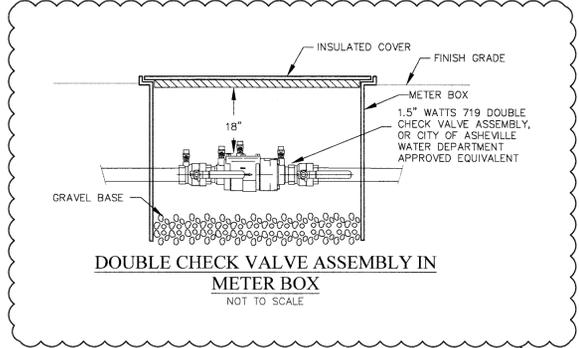


STANDARD DETAIL
 Metropolitan Sewerage District
 Buncombe County, North Carolina
 SANITARY SEWER SERVICE MORE THAN 5' DEEP
 APPROVED: FEBRUARY 25, 2010 2.07-04

GENERAL NOTES FOR SEWER

- SEWER CONSTRUCTION ON THIS SITE MUST BE AUTHORIZED BY PERMITS ISSUED BY THE METROPOLITAN SEWERAGE DISTRICT OF BUNCOMBE COUNTY (MSD). ALL SITING SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND NATIONAL REGULATORY STANDARDS, AND ALL REQUIREMENTS IN THE PROJECT TECHNICAL SPECIFICATIONS, REQUIREMENTS AND SPECIFICATIONS OF MSD STANDARDS SUPERSEDE ALL OTHERS IN THE INSTALLATION OF THE PROPOSED SEWER EXTENSION.
- CONTRACTOR TO VERIFY WITH ENGINEER THAT THE REQUIRED SEWER PERMITS AND ASSOCIATED NON-SEWER PERMITS HAVE BEEN OBTAINED PRIOR TO BEGINNING CONSTRUCTION. CONTRACTOR TO PROVIDE COPY OF STREET CUT PERMIT TO MSD PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE UNDER THE INSPECTION OF THE ENGINEER, THE OWNER, THE METROPOLITAN SEWERAGE DISTRICT. THE ENGINEER SHALL PERIODICALLY INSPECT THE PROGRESS OF INSTALLATION AND SHALL COMPLETE A FINAL WATER AND SEWER INSPECTION. THE CONTRACTOR SHALL FURNISH, SECURE, AND PROVIDE ALL NECESSARY TESTING MATERIALS, EQUIPMENT, PROCEDURES, AND CERTIFIED LABORATORY TEST RESULTS FOR USE WITH ENGINEERS FINAL CERTIFICATION OF COMPLETION. ANY WORK COVERED PRIOR TO ENGINEER'S INSPECTION IS SUBJECT TO UNCOVERING AND BACKFILLING AT THE CONTRACTOR'S EXPENSE.
- ALL WORK MUST BE PERFORMED BY A NORTH CAROLINA LICENSED UTILITY CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING THE EXACT LOCATION AND ELEVATION FOR ALL UTILITIES PRIOR TO CONSTRUCTION; AND TO NOTIFY ENGINEER OF ANY CONFLICTS OR DISCREPANCIES. THE LOCATION OF SOME UTILITIES SHOWN ON THE PLANS HAVE BEEN APPROXIMATED. ALL BURIED UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR LOCATION PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROTECT EXISTING AND NEWLY BUILT UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO UTILITIES INCURRED DURING OR RESULTING FROM CONSTRUCTION ACTIVITY IS THE RESPONSIBILITY OF THE CONTRACTOR AND IS TO BE REPAIRED IN ACCORDANCE WITH APPLICABLE STANDARDS OF APPROPRIATE AGENCIES AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES AT LEAST 72 HOURS BEFORE CONSTRUCTION ACTIVITY IS TO BEGIN. THE CONTRACTOR SHALL NOTIFY ULOCO AT 1-800-632-4646 OR 811, 72 HOURS BEFORE CONSTRUCTION BEGINS. NOTIFY THE ENGINEER AT LEAST 72 HOURS BEFORE STARTING CONSTRUCTION ACTIVITIES.
- EROSION CONTROL IS FIELD PERFORMANCE BASED AND CONTRACTOR SHALL INSTALL AND MAINTAIN ANY EROSION CONTROL MEASURES NECESSARY TO ASSURE MAXIMUM PROTECTION OF THE SITE. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL MEASURES REQUIRED TO CONTROL SEDIMENT DURING INSTALLATION ALL SEWER PIPES AND APPURTENANCES.
- SAFETY AND TRAFFIC ROUTING TO BE COORDINATED WITH CITY OF ASHEVILLE AND IN STRICT ACCORDANCE WITH NCDOT GUIDELINES FOR CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS.
- ALL SEWER SERVICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH NC PLUMBING CODES AND ANY REQUIREMENTS PER LOCAL AUTHORITIES. COORDINATE EXACT LOCATIONS OF SERVICE LINES WITH THE ARCHITECTURAL, PLUMBING, AND LANDSCAPING PLANS. SEWER CLEANOUT ASSEMBLY LOCATIONS SHOWN ARE APPROXIMATE AND ARE SUBJECT TO FINAL VERIFICATION.
- ALL NON-FERROUS UNDERGROUND SERVICE LINES OUTSIDE BUILDING FOOTPRINT SHALL BE REQUIRED TO HAVE A MAGNETIC-TYPE WARNING TAPE INSTALLED IN THE BACKFILL AT LEAST 6" BELOW GRADE.
- CONTRACTOR TO INSTALL D.I.P. WHERE THE MINIMUM OF 3' COVER OR AT UTILITY CROSSINGS WHERE MINIMUM VERTICAL SEPARATION REQUIREMENTS CANNOT BE MET. PIPE MATERIAL MUST TRANSITION TO D.I.P. 10' PRIOR TO CROSSING VIA A SOLID SLEEVE COUPLING AND EXTEND TO THE NEXT MANHOLE.
- INSTALL FERROUS PIPING FOR BOTH WATER AND SEWER WITHIN 10' OF A CROSSING IF:
 - SEWER LINE CROSSES OVER WATER, OR
 - VERTICAL CLEARANCE BETWEEN WATER AND SEWER IS LESS THAN 18". MAINTAIN 10' HORIZONTAL SEPARATION BETWEEN SEWER AND WATER MAINS UNLESS LAID IN SEPARATE TRENCHES WITH THE BOTTOM OF THE WATER LINE AT LEAST 18" ABOVE THE TOP OF SEWER OR USE FERROUS MATERIAL FOR BOTH WATER AND SANITARY SEWER.
- MAINTAIN 24" VERTICAL SEPARATION BETWEEN STORM DRAIN AND SANITARY SEWER, OR INSTALL FERROUS MATERIAL ON THE SANITARY SEWER WITHIN 10' EACH SIDE OF THE CROSSING.
- CONTRACTOR RESPONSIBLE FOR ADJUSTING EXISTING WATER APPURTENANCES AS NECESSARY DUE TO ANY SITE CONSTRUCTION OR INSTALLATION.
- TRENCH BACKFILL AND COMPACTION TESTING SHALL BE PERFORMED BY A CERTIFIED SOILS LABORATORY UNDER ALL PAVED AREAS.
- THE ENTIRE SEWER EASEMENT MUST BE CLEAR AND REMAINED CLEARED OF TREE PLANTINGS, EXISTING TREES, AND ANY PERMANENT STRUCTURES.
- CONTRACTOR SHALL SUPPLY THE ENGINEER WITH RECORD OF DEVIATIONS FROM PLANS FOR PREPARATION OF FINAL RECORD DRAWINGS.
- THE PERMITS REQUIRE CERTIFICATION OF COMPLETION BY THE ENGINEER OF THE SEWER SYSTEMS PRIOR TO ISSUANCE OF FINAL OPERATION APPROVAL BY THE METROPOLITAN SEWERAGE DISTRICT. SECURE FINAL OPERATIONAL APPROVAL FROM MSD PRIOR TO ACTIVATION OF THE SYSTEM.

UTILITY DETAILS



DOUBLE CHECK VALVE ASSEMBLY IN METER BOX

ADDENDUM 2

14 RIVERSIDE DRIVE RENOVATIONS
 14 RIVERSIDE DRIVE
 ASHEVILLE NC 28801

14 RIVERSIDE DRIVE RENOVATIONS
 ASHEVILLE NC 28801
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 Asheville, NC 28801
 Tel: 828.253.4500 Fax: 828.253.4567
 E-mail: firm@matthewsarchitecture.com

MATHEWS
 ARCHITECTURE, P.A.

DATE: 10/27/2015
 PROJECT: 1412
 C6