Construction and Development Guidelines

Randolph County ◆ Guilford County

North Carolina

May 2012

Table of Contents

Detail	*Description*	*Revision Date*
GC-01	General Construction Notes – Pavement	March 5, 2012
GC-02	General Construction Notes – Water and Sewer	April 25, 2012
GC-03	General Construction Notes – Storm Sewer	March 5, 2012
GC-04	Current Blank [To be determined]	
PA-01	Street, Residential	March 5, 2012
PA-02	Street, Non-residential	March 5, 2012
PA-03	Street, Industrial	March 5, 2012
PA-04	Street, North Carolina Department of Transportation	March 5, 2012
PA-05	Driveway, Residential	March 5, 2012
PA-06	Driveway, Non-Residential	March 5, 2012
PA-07	Driveway, Industrial	March 5, 2012
PA-08	Pedestrian Greenway	March 5, 2012
PA-09	Handicap Ramp	March 5, 2012
PA-10	Standard – Decorative	September 25, 2012
PA-11	Standard - Cobra	September 25, 2012
WD-01	Meter , ¾ inch – 1 inch	March 5, 2012
WD-02	Fire Hydrant	April 25, 2012
WD-03	Backflow Cross-Connection and Domestic Service	April 25, 2012
WD-04	Water Tap	April 25, 2012
WD-05	Meter, 1 1/2 inch – 2 inch	April 25, 2012
WD-06	Meter Vault, 3-inch	March 5, 2012
WW-01	Manhole	March 5, 2012
WW-02	Cleanout	March 5, 2012
WW-03	Pressure Release	April 25, 2012
WW-04	Saddle Tap	March 5, 2012
SW-01	Catch Basin	March 5, 2012
SW-02	Drop Inlet	March 5, 2012
SW-03	Polyacrylamide Wattle	March 5, 2012
SW-04	Swale Headwall	March 5, 2012
SW-05	Driveway Headwall	March 5, 2012
SW-06	Diffused Flow	March 5, 2012

END OF TABLE OF CONTENTS

A. A NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER MUST STAMP ALL CONSTRUCTION PLANS AND REVISIONS SUBMITTED FOR CITY REVIEW, AS WELL AS AS-BUILT DRAWINGS VERIFYING THAT THE CONSTRUCTION WAS COMPLETED ACCORDING TO PLANS.

B. FOR ALL NEW STREET CONSTRUCTION, CURB AND GUTTER IS REQUIRED. SIDEWALKS SHALL BE CONSTRUCTED AS REQUIRED BY ORDINANCE AND THE PEDESTRIAN NETWORK PLAN.

C. PAVEMENT DESIGN IS TO BE BASED ON TYPICAL PROJECTED TRAFFIC VOLUMES AND PERCENTAGE OF TRUCKS. FOR STREETS AFFECTED BY ATYPICAL VOLUMES AND PERCENTAGES, A SPECIAL PAVEMENT DESIGN REVIEW WILL BE REQUIRED.

D. ON RESIDENTIAL STREETS, CUL-DE-SACS SHALL HAVE A MINIMUM 40-FOOT ROADWAY RADIUS TO THE FACE OF CURB AND A 50 FOOT RIGHT-OF-WAY RADIUS, UNLESS A T-TURNAROUND IS APPROVED BY THE TECHNICAL REVIEW COMMITTEE

E. MAXIMUM CUT AND FILL SLOPE IS TWO-TO-ONE (2:1)

F. ALL WATER AND SEWER MAINS AND STORM DRAINS SHALL BE LOCATED WITHIN PAVED STREET AREA.

G. THE MINIMUM DESIGN SPEED IS 45 MILES PER HOUR ON ALL STREETS. FOR STREETS WITH DESIGN SPEEDS GREATER THAN 45 MPH, A SPECIAL DESIGN REVIEW WILL BE REQUIRED. DESIGN STANDARDS WILL FOLLOW AASHTO REQUIREMENTS, CURRENT EDITION.

H. STREETS THAT ARE MULTI-LANE AND/OR DIVIDED WILL REQUIRE SPECIAL DESIGN REVIEWS.

I. THE MNIMUM CENTERLINE RADIUS FOR INDUSTRIAL AND NON-RESIDENTIAL STREETS IS 410 FEET. THE MINIMUM CENTER-LINE RADIUS FOR COLLECTOR STREETS IS 300 FEET. THE MINIMUM CENTER-LINE RADIUS FOR RESIDENTIAL STREETS IS 200 FEET. FOR DESIGN SPEEDS GREATER THAN 45 MPH, THE MINIMUM CENTERLINE RADIUS IS TO BE DETERMINED BY CURRENT AASHTO STANDARDS. SUPERELEVATION MAY BE PERMITTED SUBJECT TO REVIEW BY THE CITY ENGINEER OR HIS/HER DESIGNEE.

J. MINIMUM RATE OF VERTICAL CURVATURE ("K" VALUE) FOR INDUSTRIAL AND NON-RESIDENTIAL STREETS SHALL BE 40 (MINIMUM SIGHT DISTANCE OF 250 FEET). THE MINIMUM RATE OF VERTICAL CURVATURE ("K" VALUE) FOR COLLECTOR STREETS SHALL BE 28 (MINIMUM SIGHT DISTANCE OF 200 FEET). THE MINIMUM RATE OF VERTICAL CURVATURE ("K" VALUE) FOR RESIDENTIAL STREETS SHALL BE 20 (MINIMUM SIGHT DISTANCE OF 150 FEET.)

K. CRITERIA FOR STREET GRADES

K.A. MAXIMUM GRADE FOR INDUSTRIAL AND NON-RESIDENTIAL IS 8%. THE MAXIMUM GRADE FOR COLLECTOR STREETS IS 8%. THE MAXIMUM GRADE FOR RESIDENTIAL STREETS IS 10%.

K.B. MINIMUM GRADE FOR ALL STREETS SHALL BE 1%.

K.C. GRADES AT AN INTERSECTION SHOULD NOT EXCEED 3% FOR THE FIRST 300 FEET FROM THE CENTERLINE OF ANY PUBLICLY MAINTAINED ROAD FOR INDUSTRIAL AND NON-RESIDENTIAL STREETS. GRADES AT AN INTERSECTION SHOULD NOT EXCEED 5% FOR THE FIRST 100 FEET FROM THE CENTERLINE OF ANY PUBLICLY MAINTAINED ROAD FOR COLLECTOR AND RESIDENTIAL STREETS.

L. INTERSECTIONS SHALL INTERSECT AT 90 DEGREES.

M. TURN LANES SHALL HAVE A MINIMUM WIDTH OF 12 FEET AND BE INCORPORATED WHEN REQUIRED. TAPERS SHALL BE DESIGNED TO MEET THE AASHTO DESIGN SPEED CRITERIA.

N. PLANS FOR ALL WIDENINGS SHALL SHOW THAT THE CONTRACTOR WILL SAW AND REMOVE THE EXISTING PAVEMENT A MINIMUM OF 12 INCHES FROM THE EDGE, A FULL DEPTH PATCH SHALL BE USED FOR THE WIDENING OF THE EXISTING ROADWAY WITH A BASE MEETING THE REQUIREMENTS OF 100% STANDARD PROCTOR COMPACTION FOLLOWED BY A ONE INCH OVERLAY FOR THE ENTIRE LENGTH OF ROADWAY AFFECTED.

O. CURB AND GUTTER SHALL BE IN ACCORDANCE WITH CITY OF ARCHDALE STANDARDS.

P. GUARDRAILS SHALL BE INSTALLED MEETING THE CRITERIA OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION AND ACCORDING TO AASHTO REQUIREMENTS. GUARDRAIL LOCATIONS SHALL BE REVIEWED BY THE CITY ENGINEER OR HIS/HER DESIGNEE.

Q. ALL BACKFILL SHALL BE COMPACTED TO 85%, EXCEPT THE LAST 12 INCHES OF SUBGRADE, WHICH SHALL BE COMPACTED TO 100%, STANDARD PROCTOR.

R. ALL DRIVEWAY ENTRANCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ARCHDALE STANDARDS. PERMITS ARE REQUIRED BEFORE CONSTRUCTION BEGINS.

S. FOLLOWING THE DATE OF CITY OF ARCHDALE' WARRANTY PERIOD INSPECTION BY THE CITY ENGINEER OR HIS/HER DESIGNEE;

S.A. CONTRACTOR/ENGINEER SHALL COMPLETE REPAIRS NOTED DURING INSPECTION

S.B. CONTRACTOR/ENGINEER SHALL SUBMIT DIGITAL AS-BUILTS OF THE PROJECT TO CITY ENGINEER OR HIS/HER DESIGNEE.

S.C. UPON RECEIPT OF DIGITAL 'AS-BUILTS,' BY THE CITY ENGINEER OR HIS /HER DESIGNEE, A CERTIFICATE OF WARRANTY PERIOD SHALL BE ISSUED TO THE CONTRACTOR/ENGINEER.

S.D. UPON ISSUANCE OF CERTIFICATE OF WARRANTY, A ONE YEAR WARRANTY PERIOD ON MATERIALS AND WORKMANSHIP, INCLUDING DAMAGE FROM SETTLEMENT SHALL COMMENCE.

S.E. AT THE END OF THE WARRANTY PERIOD, CONTRACTOR/ENGINEER SHALL REQUEST FINAL INSPECTION.

S.F. UPON COMPLETION OF FINAL INSPECTION, CONTRACTOR/ENGINEER MAY PETITION FOR FINAL ACCEPTANCE OF THE PROJECT BY THE CITY COUNCIL

T. CONSTRUCTION STANDARDS SHALL MEET NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, CURRENT EDITION (AND AS SUBSEQUENTLY AMENDED), EXCEPT WHERE STANDARDS IN THESE GUIDELINES ARE MORE STRINGENT.

PAVEMENT		CITY OF ARCHDALE CONSTRUCTION NOTES	
GC-01	SCALE CUSTOM / DRAWN BY D. J. Señeres		
	DATE 04/24/2012 / APPROVED BY City Council		

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision

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A. A NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER MUST STAMP ALL CONSTRUCTION PLANS AND REVISIONS SUBMITTED FOR CITY REVIEW, AS WELL AS AS-BUILT DRAWINGS VERIFYING THAT THE CONSTRUCTION WAS COMPLETED ACCORDING TO PLANS.
B. THE DEVELOPER SHALL SUBMIT PRIOR TO THE TECHNICAL REVIEW COMMITTEE FINAL APPROVAL THE MANUFACTURERS SPECIFICATION SHEET(S) OF BRAND, MODEL, SIZE, ETC. OF PIPE, FITTINGS, METER SETTINGS, VALVES AND ASSOCIATED CONNECTIONS.
C. THE DEVELOPER SHALL BE RESPONSIBLE FOR SUBMITTAL OF WATER AND SEWER PLANS TO APPLICABLE STATE AGENCIES INCLUDING "AS-BUILT' CERTIFICATIONS. NO CONSTRUCTION SHALL BE ALLOWED UNTIL AN "AUTHORIZATION TO CONSTRUCT" IS RECEIVED FROM THE APPLICABLE STATE AGENCY. FINAL ACCEPTANCE FROM THE APPROPRIATE STATE AGENCY WILL NOT BE PROVIDED UNTIL ALL "AS-BUILT" CERTIFICATIONS ARE OBTAINED AND FORWARDED TO THE CITY.
D. THERE SHOULD BE AT LEAST 10 FEET OF HORIZONTAL DISTANCE BETWEEN WATER AND SEWER MAINS, OR 18 INCH MINIMUM VERTICAL SEPARATION.
E. VERTICAL SEPARATION OF LINES SHALL BE AS FOLLOWS:
   E.A. 12" MINIMUM BETWEEN STORM AND SANITARY
   E.B. 12" MINIMUM BETWEEN STORM AND WATER
F. PROPOSED WATER AND SANITARY SEWER LINES SHALL BE PLACED A MINIMUM OF 5 FEET OFF EDGE OF PAVEMENT OF ALL NORTH CAROLINA DEPARTMENT OF TRANSPORTATION ROADS AND APPLICABLE ENCROACHMENT AGREEMENTS OBTAINED BY THE DEVELOPER..
G. IN CASES WHERE CITY AND STATE DESIGN CRITERIA CONFLICT, THE MOST STRINGENT SHALL APPLY.
H. MINIMUM PIPE MATERIAL SHALL BE DUCTILE IRON (CL 350) OR PVC C900 (CL 165 MINIMUM UP TO 305) UNLESS STATIC PRESSURES REQUIRE A HIGHER PRESSURE RATING.
I. MINIMUM DIAMETER PIPE SHALL BE 6 INCHES FOR LINES WITH HYDRANTS. 8 INCH MINIMUM DIAMETER PIPE WILL BE UTILIZED IN ALL THROUGHFARES.
J. FITTING LISTS, INCLUDING VALVES, SHALL BE SHOWN ON THE PLAN VIEW FOR ALL INTERSECTION WATER MAINS AND AT FIRE HYDRANTS. BENDS SHALL BE LABELED ON THE PLAN AND PROFILE VIEWS. USE HYDRANT TEES FOR HYDRANTS AND 6 INCH STUB-OUTS.
K. HYDRANTS IN A SINGLE-FAMILY, RESIDENTIAL AREA SHALL BE PLACED SO THAT THE CENTERS OF ALL LOTS ARE WITHIN 350 FEET OF A HYDRANT AND NOT MORE THAN 700 FEET BETWEEN HYDRANTS.
L. HYDRANTS IN A MULTI-FAMILY/COMMERCIAL/INDUSTRIAL OR OTHER AREA SHALL BE PLACED SO THAT THE CENTERS OF ALL LOT LINES ARE WITHIN 250 FEET OF A HYDRANT AND NO MORE THAN 500 FEET BETWEEN HYDRANTS.
M. HYDRANTS ARE TO BE PLACED ON THE LOT LINES WHENEVER POSSIBLE.
N. ALL DEAD-END MAINS MUST HAVE A HYDRANT OR SPECIAL APPROVAL BY THE CITY ENGINEER OR HIS DESIGNEE OF A BLOW-OFF. NO CONNECTIONS SHALL BE MADE BEYOND THE HYDRANT OR BLOW-OFF.
O. SEWER DESIGN MUST BE CONSISTENT WITH OVERALL NEEDS OF WATERSHED. ENGINEER SHALL FURNISH TOPOGRAPHIC MAPS, ZONING MAPS AND DESIGN DATA TO SUBSTANTIATE SIZING OF ALL MAJOR WATERSHED OUTFALLS.
P. MINIMUM DIAMETER PIPE SHALL BE 8 INCHES.
Q. BEDDING REQUIREMENTS SHALL BE SHOWN IN THE PROFILE DRAWINGS, AND BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
R. THE MINIMUM GRADE ON SEWER IS 0.5% IN LINES LESS THAN 18 INCHES IN DIAMETER. GRADES SHALL BE A MINIMUM OF 1.0% FOR DEADEND LINES AND WHERE LOW FLOWS ARE EXPECTED.
S. MANHOLES SHALL BE PLACED A MAXIMUM OF 500 FEET APART AND AT ALL ANGLE POINTS. PIPES SHALL RUN STRAIGHT BETWEEN ALL MANHOLES.
T. MANHOLE STATIONS SHALL BE SHOWN ON PLAN VIEW AND PROFILE VIEW (EX. MH Sta. 10+00.00).
U. ALL MANHOLES SHALL HAVE A CENTERLINE INVERT ELEVATION SHOWN ON PROFILE VIEW (EX. C/L MH Inv. 800.50). ASSUMED ELEVATIONS WILL NOT BE ACCEPTED. ALL ELEVATIONS SHALL BE TIED TO THE NORTH CAROLINA GRID SYSTEM.
V. THE TOP OF MANHOLES ON SANITARY SEWER OUTFALLS SHALL BE A MINIMUM OF 2 FEET ABOVE THE 100-YEAR FLOODPLAIN ELEVATION. MANHOLES IN A YARD MAY BE FLUSH WITH GROUND BUT MUST HAVE A MINIMUM OF A 6-INCH CONCRETE COLLAR.
W. WHEN CONNECTING TO AN EXISTING MANHOLE, SHOW INVERT ELEVATION, SHELF ELEVATIONS, TOP OF MANHOLE ELEVATION, VENT PIPE ELEVATION (OUTFALLS ONLY), ALIGNMENT OF EXISTING LINE AND NAME AND PROJECT NUMBER FOR EXISTING LINE.
X. AERIAL SEWERS WILL BE ALLOWED WHERE COVER CANNOT BE MAINTAINED OVER SEWER LINE. THE MAXIMUM UNSUPPORTED CLEAR SPAN IS 40 FEET. SUSPENDED JOINTS SHALL BE MECH-LOK RIGID RESTRAINED JOINT BY GRIFFIN (OR EQUAL). PIERS OR PILES ARE REQUIRED TO SUPPORT PIPE FOR SPANS GREATER THAN 40 FEET.
Y. FOLLOWING THE DATE OF CITY OF ARCHDALE' WARRANTY PERIOD INSPECTION BY THE CITY ENGINEER OR HIS/HER DESIGNEE;
   S.A. CONTRACTOR/ENGINEER SHALL COMPLETE REPAIRS NOTED DURING INSPECTION
   S.B. CONTRACTOR/ENGINEER SHALL SUBMIT DIGITAL AS-BUILTS OF THE PROJECT TO CITY ENGINEER OR HIS/HER DESIGNEE.
   S.C. UPON RECEIPT OF DIGITAL 'AS-BUILTS,' BY THE CITY ENGINEER OR HIS /HER DESIGNEE, A CERTIFICATE OF WARRANTY PERIOD SHALL BE ISSUED TO THE CONTRACTOR/ENGINEER.
   S.D. UPON ISSUANCE OF CERTIFICATE OF WARRANTY, A ONE YEAR WARRANTY PERIOD ON MATERIALS AND WORKMANSHIP, INCLUDING DAMAGE FROM SETTLEMENT SHALL COMMENCE.
   S.E. AT THE END OF THE WARRANTY PERIOD, CONTRACTOR/ENGINEER SHALL REQUEST FINAL INSPECTION.
   S.F. UPON COMPLETION OF FINAL INSPECTION, CONTRACTOR/ENGINEER MAY PETITION FOR FINAL ACCEPTANCE OF THE PROJECT BY THE CITY COUNCIL.

WATER AND SEWER			CITY OF ARCHDALE CONSTRUCTION NOTES		
GC-02	SCALE CUSTOM	DRAWN BY D. J. Señeres		NO.	DATE / REVISION
	DATE 04/24/2012	APPROVED BY City Council		1	08/02/10 Public Works Comments Incorporated in Revision
				1	04/25/12 Public Works Comments Incorporated in Revision
				C:\R\AutoCAD Standard Details\GC-02.dwg	

A. GRADING PERMITS COVERING SEDIMENTATION AND EROSION CONTROL MEASURES MUST BE OBTAINED FROM THE CITY OF ARCHDALE, UNDER AUTHORIZATION FROM THE NORTH CAROLINA DIVISION OF LAND QUALITY, BEFORE CONSTRUCTION CAN COMMENCE. A PRECONSTRUCTION CONFERENCE SHALL BE HELD ON THE PROPOSED SITE WITH EROSION CONTROL PERSONNEL OF THE CITY OF ARCHDALE AND THE STATE OF NORTH CAROLINA.

B. ALL STORMWATER CONTROLS SHALL BE DESIGNED MEETING THE REQUIREMENTS OF THE BEST MANAGEMENT PRACTICES DESIGN MANUAL, JULY 2009, OR AMENDED.

C. ALL SITES SHALL BE EVALUATED FOR LOW IMPACT DEVELOPMENT.

D. DRAINAGE STRUCTURES SHALL BE SIZED USING RATIONAL METHOD. CALCULATIONS USED FOR DRAINAGE DESIGN SHALL BE SUBMITTED TO THE CITY OF ARCHDALE.

E. MINIMUM DESIGN FREQUENCY SHALL BE 25 YEARS FOR STORM WATER SEWERS CARRYING OFF-SITE DRAINAGE AND 10 YEARS FOR INCIDENTAL DRAINAGE.

F. ALL SYSTEMS SHALL BE DESIGNED TO ACCOMODATE 1-INCH OF TOTAL RUNOFF.

G. THE MINIMUM PIPE DIAMETER SHALL BE 15 INCHES. THE MINIMUM SLOPE ON ALL DRAINAGE LINES SHALL BE 1.0%.

H. REINFORCED CONCRETE PIPE (RCP) IS REQUIRED MATERIAL FOR ALL SLOPES LESS THAN OR EQUAL TO 12%. OTHER PIPE MATERIAL MAY BE USED ONLY WITH SPECIFIC APPROVAL BY THE CITY. CAP MUST BE USED FOR SLOPES GREATER THAN 12%.

I. DRAINAGE LINES SHALL HAVE AT LEAST ONE FOOT VERTICAL DISTANCE FROM ALL WATER AND SANITARY LINES.

J. STREET YARD INLET AND CATCH BASINS SHALL BE CITY STANDARD. DOUBLE CATCH BASIN WITH TYPE E, F, OR G GRATES AS APPROPRIATE (NCDOT STANDARD 840.03). PRECAST STRUCTURES SHALL BE USED WHEN APPLICABLE.

K. THE GRADE OF THE STREET AND FLOW SHALL DETERMINE ACCEPTABLE PLACEMENT AND SPACING.

L. STORM DRAIN OUTFALLS SHALL BE PIPED TO THE REAR OF ANY PROPERTY AND RELEASED IN A NATURAL DRAINAGE DITCH OR STREAM. IT MAY BE NECESSARY TO CROSS INTERVENING PROPERTY AND TO OBTAIN PRIVATE DRAINAGE EASEMENTS TO INSURE DISCHARGE INTO NATURAL WATER COURSE. ALL COSTS SHALL BE BORNE BY THE DEVELOPER.

M. ALL STORM DRAINAGE EASEMENTS SHALL BE SHOWN ON THE PLAN SHEET AND LABELED, "PRIVATE STORM DRAINAGE EASEMENT."

N. FLARED-END SECTIONS WILL BE USED ON THE INLET/OUTLET END OF ANY PIPE RECEIVING OR DISCHARGING SURFACE WATER (I.E. TO OR FROM A DITCH, CHANNEL, OR CREEK). RIP-RAP WILL BE USED IN ADDITION AS NECESSARY.

O. COMPACTION TESTS BY AN INDEPENDENT TESTING LAB TO BE MADE AS DIRECTED BY ENGINEER AT OWNER'S EXPENSE.

P. CONSTRUCTION STANDARDS SHALL MEET NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, CURRENT EDITION, OR AS AMENDED, EXCEPT WHERE STANDARDS IN THESE GUIDELINES ARE MORE STRINGENT.

Q. EXISTING CURB AND GUTTER AND PAVEMENT TO BE REPLACED OR REPAIRED AS REQUIRED TO TIE ON TO SOUND MATERIAL.

R. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.

S. WATER AND SEWER CONNECTIONS SHALL BE BESIDE EACH OTHER, SPACED AT 30 INCH CENTER TO CENTER AND HAVE 2 INCH BY 2 INCH STAKES PLACED ON EACH SIDE WITH FLAGGING.

T. FOLLOWING THE DATE OF CITY OF ARCHDALE' WARRANTY PERIOD INSPECTION BY THE CITY ENGINEER OR HIS/HER DESIGNEE;

S.A. CONTRACTOR/ENGINEER SHALL COMPLETE REPAIRS NOTED DURING INSPECTION

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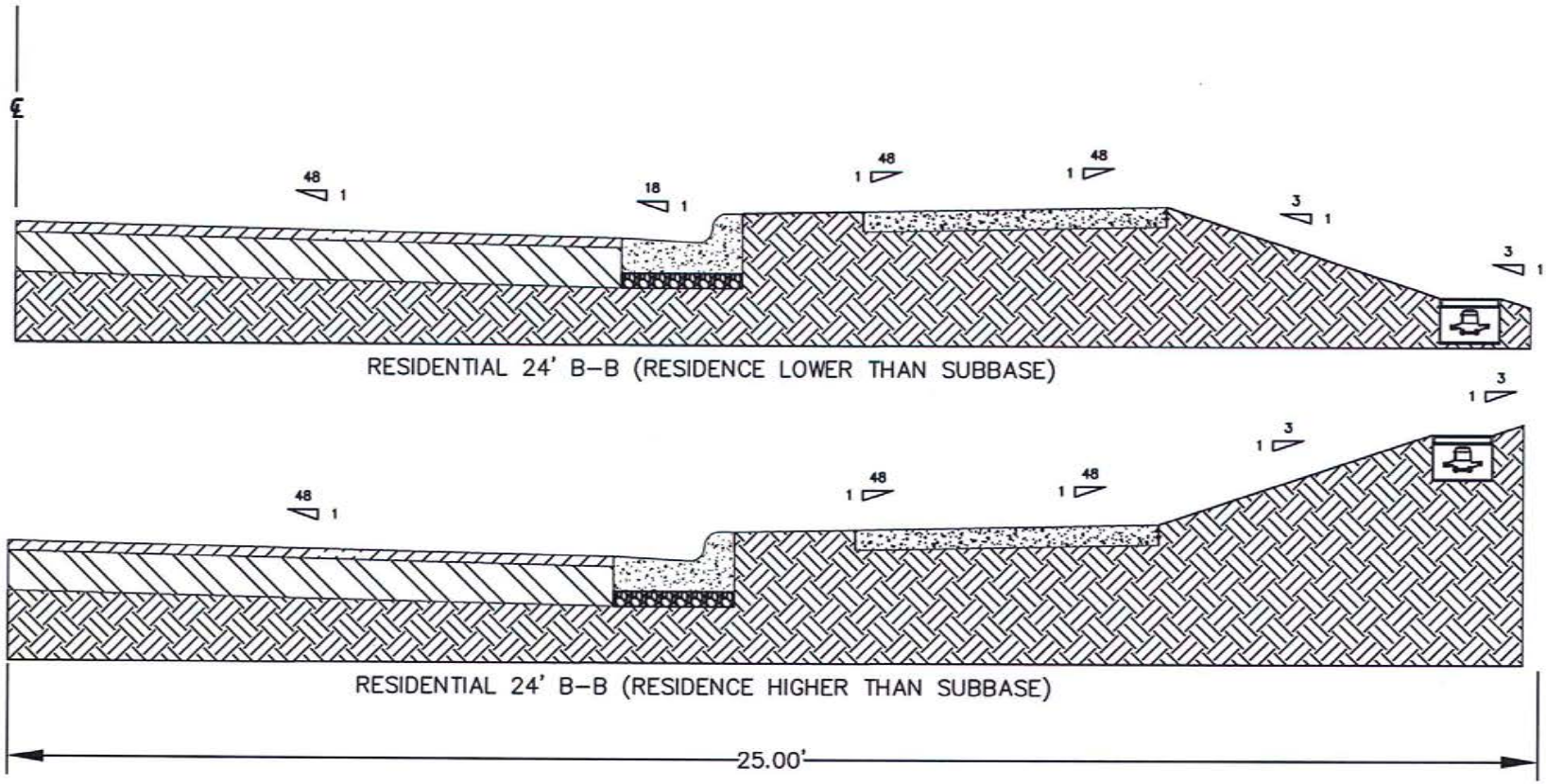
S.F. UPON COMPLETION OF FINAL INSPECTION, CONTRACTOR/ENGINEER MAY PETITION FOR FINAL ACCEPTANCE OF THE PROJECT BY THE CITY COUNCIL.

STORM SYSTEM			CITY OF ARCHDALE CONSTRUCTION NOTES	CITY OF ARCHDALE NORTH CAROLINA	NO. / DATE / REVISION
GC-03	SCALE CUSTOM	DRAWN BY D. J. Señeres, PE			1 / 08/02/10 / Public Works Comments Incorporated in Revision
	DATE 04/24/2012	APPROVED BY City Council			C:\R\AutoCAD Standard Details\GC-03.dwg



- SF 9.5B PG 64–22[2–inches]
- I 19.0B PG 64–22 [6–inches]
- CONCRETE, 3000 psi [4–inches]
- AGGREGATE BASE COURSE [2–inches]
- EXISTING GROUND

A. USE OF THE FOLLOWING DETAIL IS ONLY AUTHORIZED UPON APPROVAL OF THE PROJECT BY THE TECHNICAL REVIEW COMMITTEE.
B. ALL PROJECTS IN THE CITY OF ARCHDALE ARE SUBJECT TO A WARRANTY PERIOD OF A MINIMUM OF ONE YEAR FOLLOWING ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER.
C. DURING THE WARRANTY PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DISCREPANCIES IN PERFORMANCE OF THE INTENDED DESIGN. AS A MINIMUM, PERFORMANCE ITEMS TO BE MONITORED SHALL INCLUDE EROSION AND SEDIMENT CONTROL FEATURES, STORMWATER RUNOFF CONTROLS, MATERIALS, AND WORKMANSHIP.
D. PAVEMENT SECTIONS SHALL BE CONSTRUCTED AS SHOWN UNLESS REVISED PAVEMENT WITH EQUIVALENT STRUCTURAL NUMBER IS APPROVED BY THE CITY ENGINEER.

RESIDENTIAL STREET

PA–01

SCALE 1": 3'	DRAWN BY D. J. Señeres
DATE 03/27/2012	APPROVED BY City Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	Plannning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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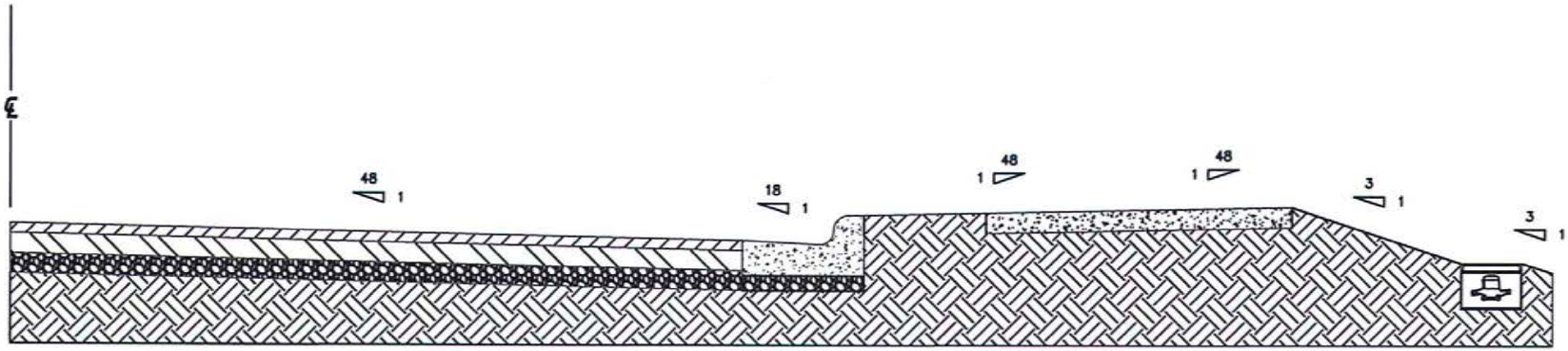
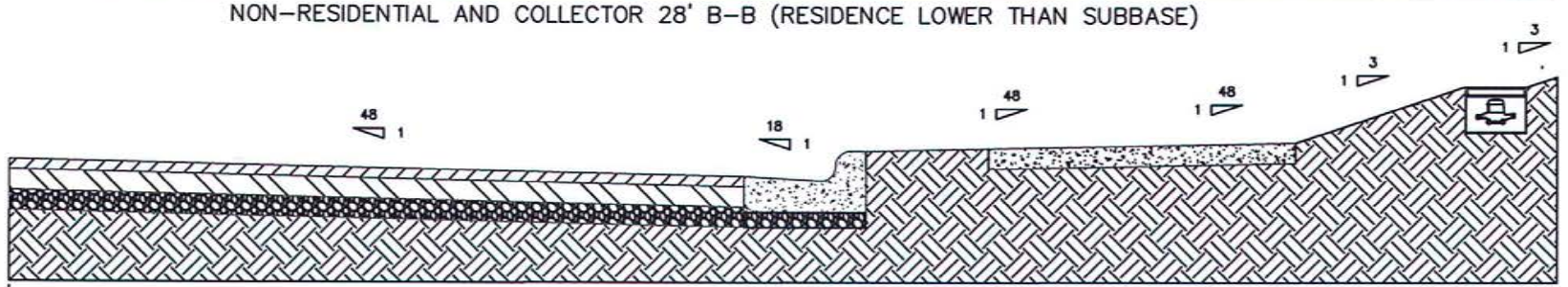


NON–RESIDENTIAL AND COLLECTOR 28' B–B (RESIDENCE LOWER THAN SUBBASE)



NON–RESIDENTIAL AND COLLECTOR 28' B–B (RESIDENCE HiGHER THAN SUBBASE)

25.00'

- SF 9.5B PG 64–22 [2–inches]
- I 19.0B PG 64–22 [4–inches]
- CONCRETE, 3000 psi [4–inches]
- AGGREGATE BASE COURSE [4–inches]
- EXISTING GROUND

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D. PAVEMENT SECTIONS SHALL BE CONSTRUCTED AS SHOWN UNLESS REVISED PAVEMENT WITH EQUIVALENT STRUCTURAL NUMBER IS APPROVED BY THE CITY ENGINEER.

NON–RESIDENTIAL STREET

PA–02

SCALE 1": 3'	DRAWN BY D. J. Señeres
DATE 03/27/2012	APPROVED BY City Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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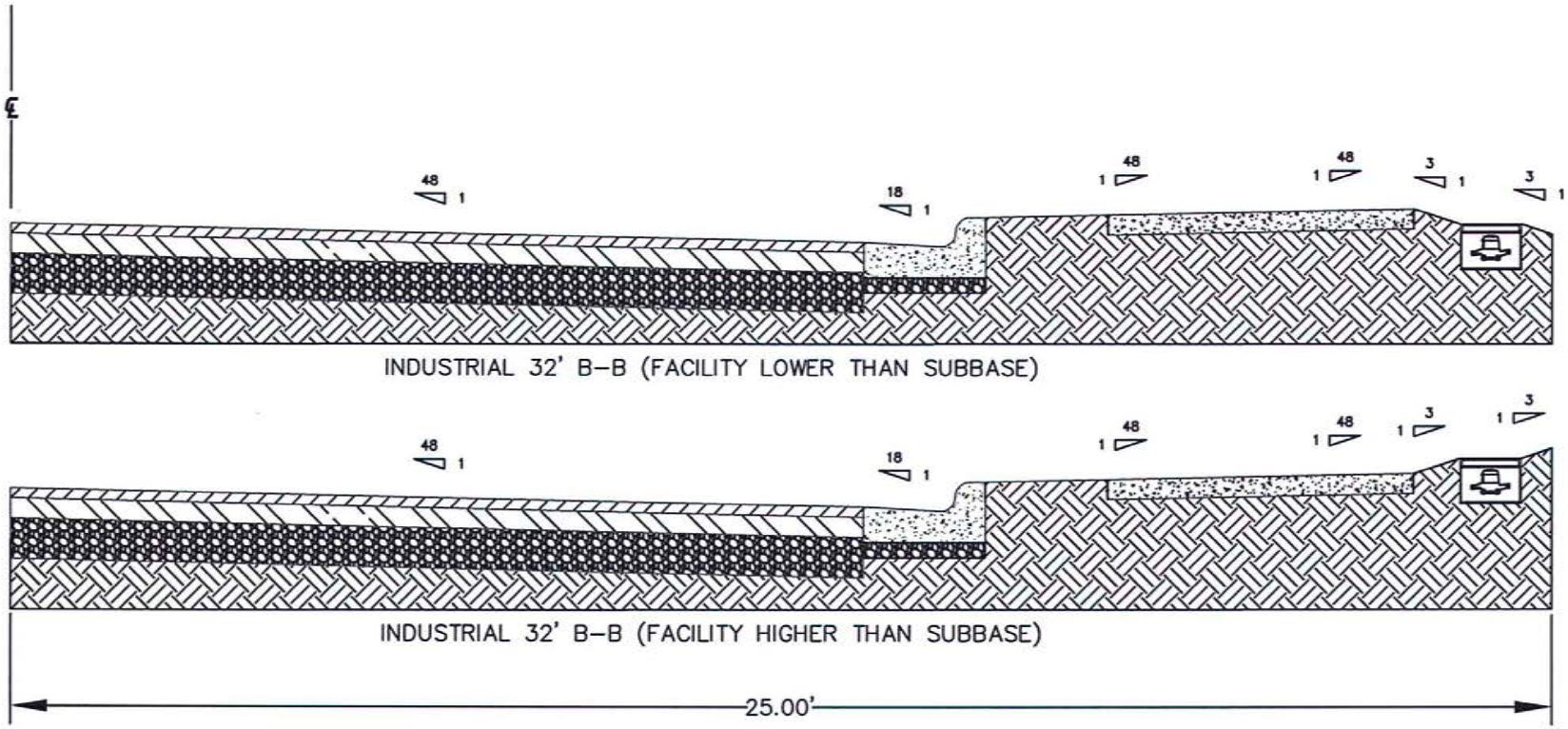

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- I 19.0B PG 64–22 [4–inches]
- CONCRETE, 3000 psi [4–inches]
- AGGREGATE BASE COURSE [6–inches]
- EXISTING GROUND

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D. PAVEMENT SECTIONS SHALL BE CONSTRUCTED AS SHOWN UNLESS REVISED PAVEMENT WITH EQUIVALENT STRUCTURAL NUMBER IS APPROVED BY THE CITY ENGINEER.

INDUSTRIAL STREET

PA-03

SCALE 1":3'	DRAWN BY D. J. Señeres
DATE 03/27/2012	APPROVED BY City Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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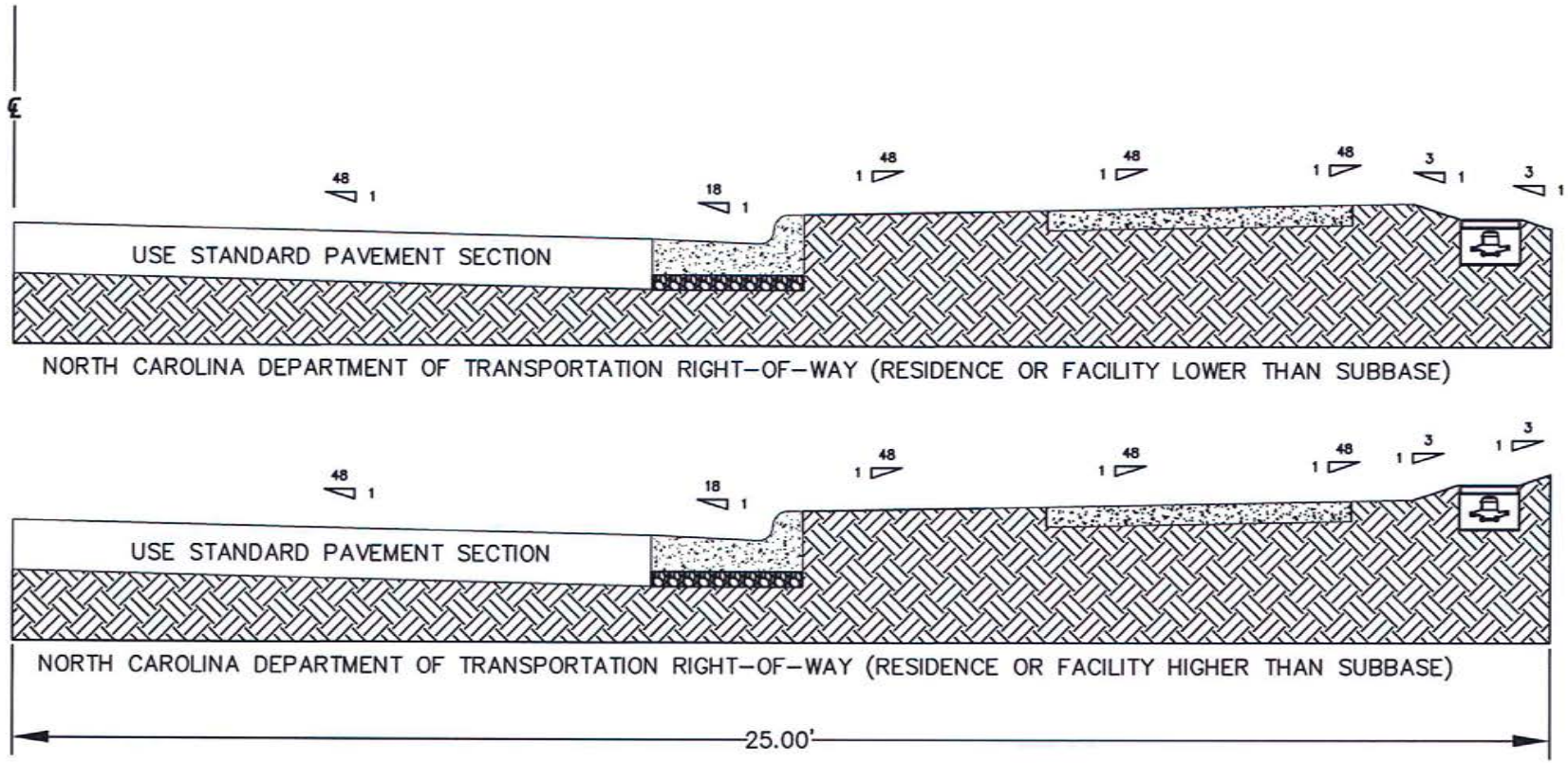

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D. PAVEMENT SECTIONS SHALL BE CONSTRUCTED AS SHOWN UNLESS REVISED PAVEMENT WITH EQUIVALENT STRUCTURAL NUMBER IS APPROVED BY THE CITY ENGINEER.

NCDOT REQUIREMENT

PA–04	SCALE 1":3'	DRAWN BY D. J. Señeres
	DATE 03/27/2012	APPROVED BY City Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	NCDOT Increases Utility Strip from 2' to 3'
3	03/05/12	Additional Public Works & Planning Comments

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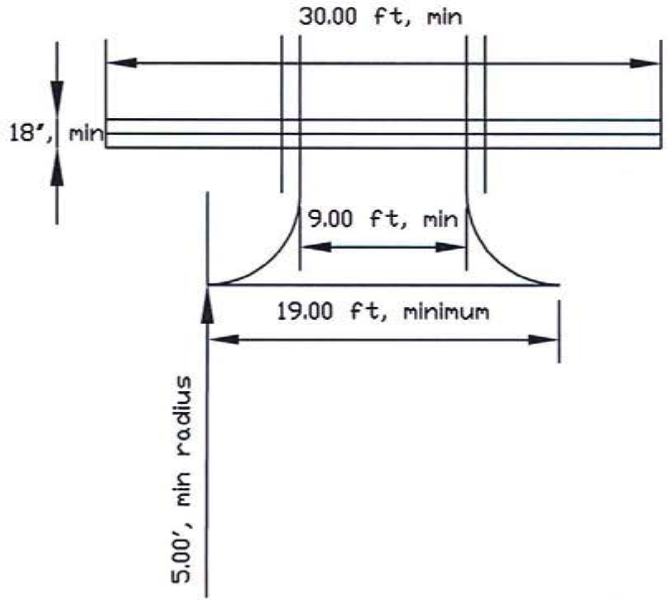

A. EXCEPT AS OTHERWISE PROVIDED IN CHAPTER 7, ARTICLE 2 OF THE CITY CODE, DRIVEWAYS AND EXCAVATIONS, NO PERSON MAY OPEN, CONSTRUCT, ALTER, OR RELOCATE ANY DRIVEWAY ACROSS ANY PUBLIC SIDEWALK OR INTO ANY STREET, OR CUT ANY CURB FOR SUCH PURPOSE WITHOUT HAVING OBTAINED A PERMIT FROM THE DIRECTOR OF PUBLIC WORKS OR HIS/HER DESIGNEE.

B. ANY PERSON WHO RECIEVED A PERMIT UNDER THE ABOVE MENTIONED SECTION OF THE CITY CODE SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SIDEWALK OR STREET (INCLUDING CURB AND GUTTER) CAUSED BY THE DRIVEWAY CONSTRUCTION.

C. THE DIRECTOR OF PUBLIC WORKS OR HIS/HER DESIGNEE SHALL REVIEW THE DRIVEWAY CONSTRUCTION AND DESIGN PLANS AND SHALL ISSUE THIS PERMIT UNLESS HE FINDS THE DRIVEWAY, IF CONSTRUCTED AS PROPOSED, WILL SUBSTANTIALLY INTERFERE WITH OR POSE A DANGER TO;
   - 1.1. PERSONS USING THE STREET OR SIDEWALK INTERSECTION BY THE DRIVEWAY; OR
   - 1.2. PUBLIC FACILITIES (INCLUDING UTILITY POLES, TRAFFIC SIGNALS, ETC.); OR
   - 1.3. WILL FAIL TO COMPLY WITH ANY PROVISIONS OF THIS SECTION.

D. NO DRIVEWAY MAY BE CONSTRUCTED CLOSER THAN FIVE (5) FEET TO A FIRE HYDRANT OR CATCH BASIN OR CLOSER THAN THIRTY (30) FEET TO THE RIGHT-OF-WAY LINE OF A STREET THAT INTERSECTS WITH THE STREET THE DRIVEWAY OPENS ONTO.

E. IF THE DRIVEWAY CROSSES A DRAINAGE DITCH ON A LOT THAT ABUTS A STREET WITHOUT CURB OR GUTTER, THEN PIPING OF SUFFICIENT SIZE AND STRENGTH (AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS/HER DESIGNEE) SHALL BE INSTALLED BENEATH THE DRIVEWAY SURFACE SO THAT THE DRAINAGE CAPABILITY OF THE DRAINAGE DITCH IS NOT MATERIALLY IMPAIRED.

F. THIS PERMIT SHALL NOT APPLY TO DRIVEWAYS THAT OPEN INTO STATE MAINTAINED STREETS TO THE EXTENT THAT THE STATE HAS APPROVED THE DRIVEWAY. NOR SHALL A PERSON BE REQUIRED TO OBTAIN A PERMIT UNDER THIS SECTION TO THE EXTENT THAT THE DRIVEWAY IS BEING CONSTRUCTED IN ACCORDANCE WITH THE PLANS APPROVED PURSUANT TO A REVIEW PROCESS AUTHORIZED BY A ZONING OR SUBDIVISION ORDINANCE.

DRIVEWAY – RESIDENTIAL

PA-05

SCALE 1':10'	DRAWN BY D. J. Señeres
DATE 03/27/2012	APPROVED BY City Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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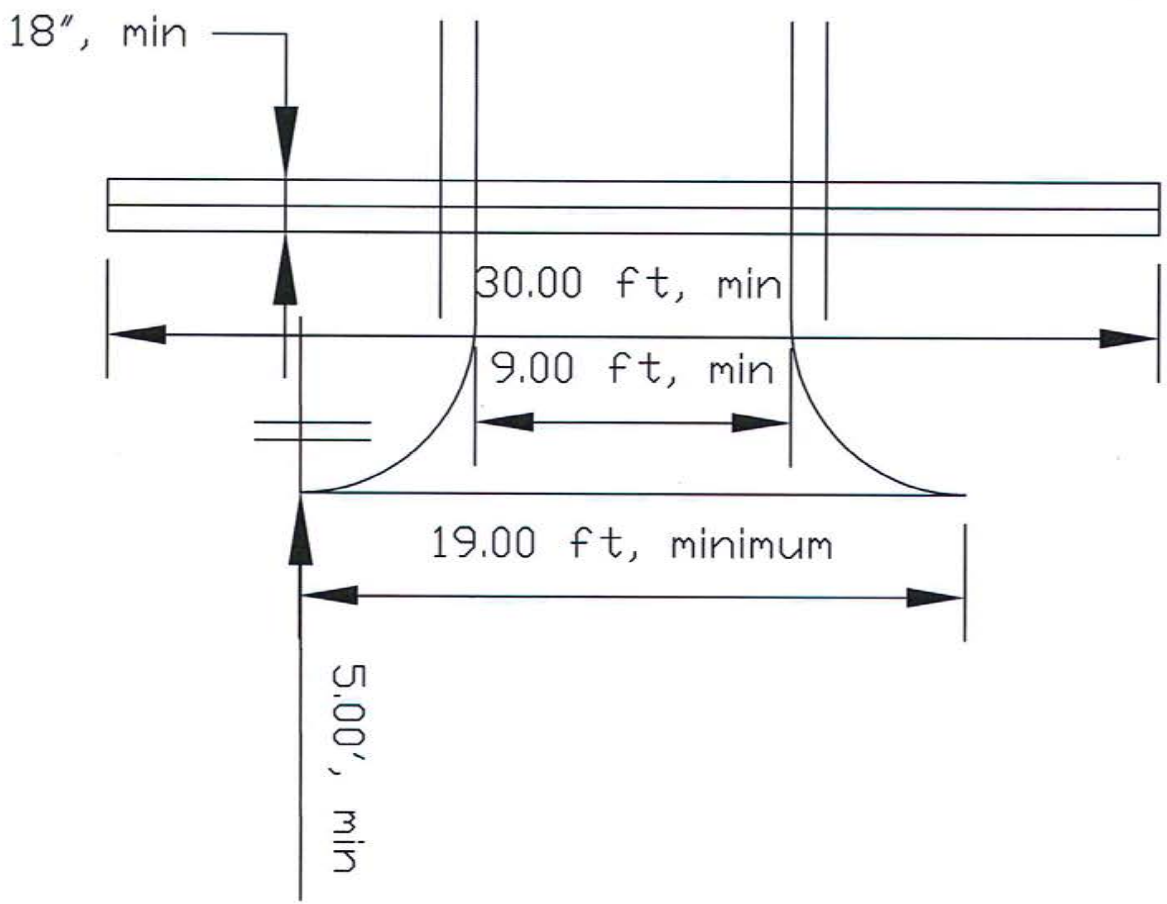

A. EXCEPT AS OTHERWISE PROVIDED IN ARTICLE II, DRIVEWAYS AND EXCAVATIONS, SECTION 7-11, NO PERSON MAY OPEN, CONSTRUCT, ALTER, OR RELOCATE ANY DRIVEWAY ACROSS ANY PUBLIC SIDEWALK OR INTO ANY STREET, OR CUT ANY CURB FOR SUCH PURPOSE WITHOUT HAVING OBTAINED A PERMIT FROM THE DIRECTOR OF PUBLIC WORKS OR HIS/HER DISGNEE.

B. ANY PERSON WHO RECIEVED A PERMIT UNDER THE ABOVE MENTIONED SECTION OF THE CITY CODE SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SIDEWALK OR STREET (INCLUDING CURB AND GUTTER) CAUSED BY THE DRIVEWAY CONSTRUCTION.

C. THE DIRECTOR OR PUBLIC WORKS SHALL REVIEW THE DRIVEWAY CONSTRUCTION AND DESIGN PLANS AND SHALL ISSUE THIS PERMIT UNLESS HE FINDS THE DRIVEWAY, IF CONSTRUCTED AS PROPOSED, WILL SUBSTANTIALLY INTERFERE WITH OR POSE A DANGER TO;
   - 1.1. PERSONS USING THE STREET OR SIDEWALK INTERSECTION BY THE DRIVEWAY; OR
   - 1.2. PUBLIC FACILITIES (INCLUDING UTILITY POLES, TRAFFIC SIGNALS, ETC.); OR
   - 1.3. WILL FAIL TO COMPLY WITH ANY PROVISIONS OF THIS SECTION.

D. NO DRIVEWAY MAY BE CONSTRUCTED CLOSER THAN FIVE (5) FEET TO A FIRE HYDRANT OR CATCH BASIN OR CLOSER THAN THIRTY (30) FEET TO THE RIGHT-OF-WAY LINE OF A STREET THAT INTERSECTS WITH THE STREET THE DRIVEWAY OPENS ONTO.

E. IF THE DRIVEWAY CROSSES A DRAINAGE DITCH ON A LOT THAT ABUTS A STREET WITHOUT CURB OR GUTTER, THEN PIPING OF SUFFICIENT SIZE AND STRENGTH (AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS/HER DESIGNEE) SHALL BE INSTALLED BENEATH THE DRIVEWAY SURFACE SO THAT THE DRAINAGE CAPABILITY OF THE DRAINAGE DITCH IS NOT MATERIALLY IMPAIRED.

F. THIS PERMIT SHALL NOT APPLY TO DRIVEWAYS THAT OPEN INTO STATE MAINTAINED STREETS TO THE EXTENT THAT THE STATE HAS APPROVED THE DRIVEWAY. NOR SHALL A PERSON BE REQUIRED TO OBTAIN A PERMIT UNDER THIS SECTION TO THE EXTENT THAT THE DRIVEWAY IS BEING CONSTRUCTED IN ACCORDANCE WITH THE PLANS APPROVED PURSUANT TO A REVIEW PROCESS AUTHORIZED BY A ZONING OR SUBDIVISION ORDINANCE.

DRIVEWAY NONRESIDENTIAL

PA-06	SCALE 1":3'	DRAWN BY D. J. Señeres
	DATE 03/27/2012	APPROVED BY City Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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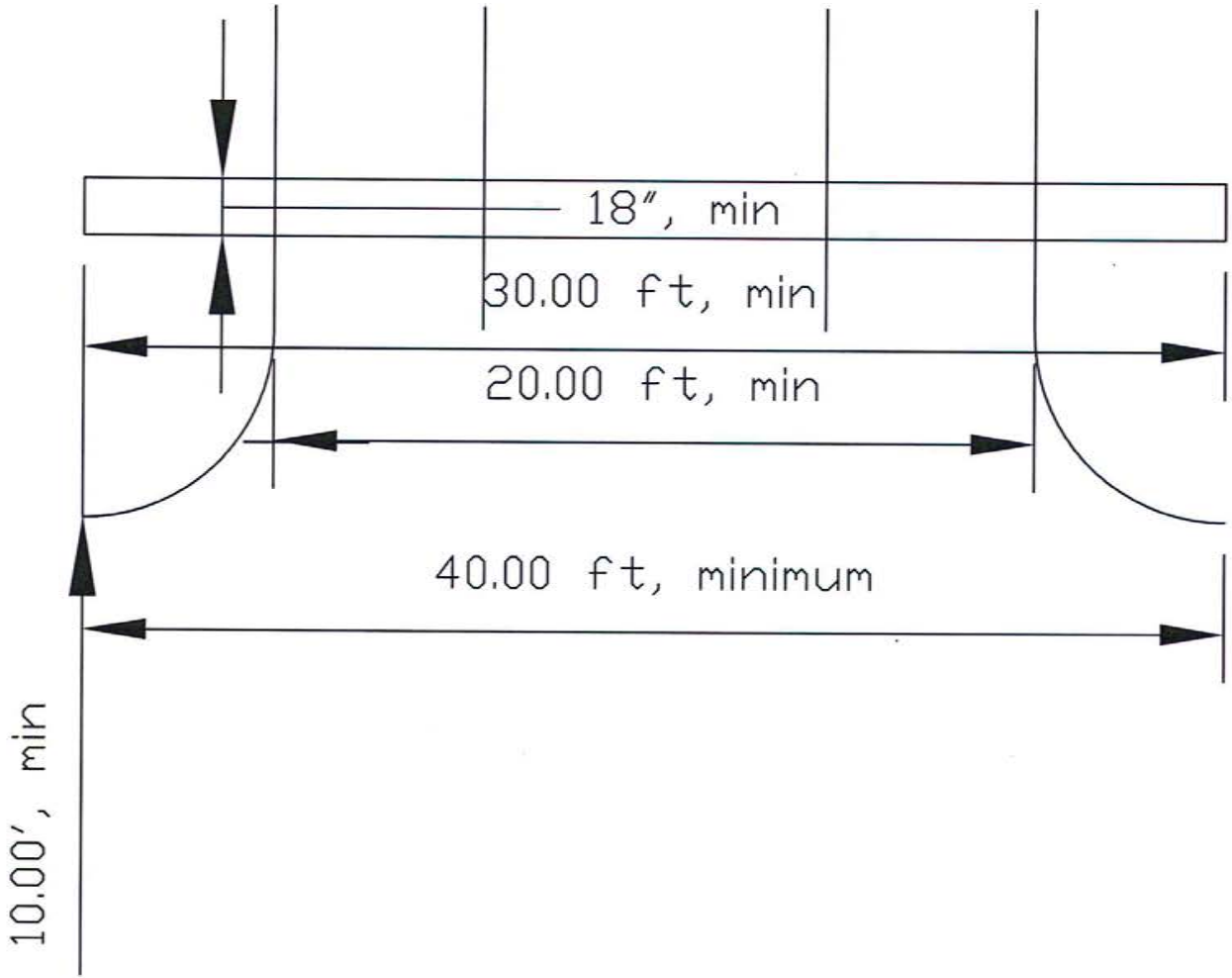

A. EXCEPT AS OTHERWISE PROVIDED IN ARTICLE II, DRIVEWAYS AND EXCAVATIONS, SECTION 7-11, NO PERSON MAY OPEN, CONSTRUCT, ALTER, OR RELOCATE ANY DRIVEWAY ACROSS ANY PUBLIC SIDEWALK OR INTO ANY STREET, OR CUT ANY CURB FOR SUCH PURPOSE WITHOUT HAVING OBTAINED A PERMIT FROM THE DIRECTOR OF PUBLIC WORKS OR HIS/HER DESIGNEE.

B. ANY PERSON WHO RECIEVED A PERMIT UNDER THE ABOVE MENTIONED SECTION OF THE CITY CODE SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO THE SIDEWALK OR STREET (INCLUDING CURB AND GUTTER) CAUSED BY THE DRIVEWAY CONSTRUCTION.

C. THE DIRECTOR OR PUBLIC WORKS SHALL REVIEW THE DRIVEWAY CONSTRUCTION AND DESIGN PLANS AND SHALL ISSUE THIS PERMIT UNLESS HE FINDS THE DRIVEWAY, IF CONSTRUCTED AS PROPOSED, WILL SUBSTANTIALLY INTERFERE WITH OR POSE A DANGER TO;
   - 1.1. PERSONS USING THE STREET OR SIDEWALK INTERSECTION BY THE DRIVEWAY; OR
   - 1.2. PUBLIC FACILITIES (INCLUDING UTILITY POLES, TRAFFIC SIGNALS, ETC.); OR
   - 1.3. WILL FAIL TO COMPLY WITH ANY PROVISIONS OF THIS SECTION.

D. NO DRIVEWAY MAY BE CONSTRUCTED CLOSER THAN FIVE (5) FEET TO A FIRE HYDRANT OR CATCH BASIN OR CLOSER THAN THIRTY (30) FEET TO THE RIGHT-OF-WAY LINE OF A STREET THAT INTERSECTS WITH THE STREET THE DRIVEWAY OPENS ONTO.

E. IF THE DRIVEWAY CROSSES A DRAINAGE DITCH ON A LOT THAT ABUTS A STREET WITHOUT CURB OR GUTTER, THEN PIPING OF SUFFICIENT SIZE AND STRENGTH (AS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR HIS/HER DESIGNEE) SHALL BE INSTALLED BENEATH THE DRIVEWAY SURFACE SO THAT THE DRAINAGE CAPABILITY OF THE DRAINAGE DITCH IS NOT MATERIALLY IMPAIRED.

F. THIS PERMIT SHALL NOT APPLY TO DRIVEWAYS THAT OPEN INTO STATE MAINTAINED STREETS TO THE EXTENT THAT THE STATE HAS APPROVED THE DRIVEWAY. NOR SHALL A PERSON BE REQUIRED TO OBTAIN A PERMIT UNDER THIS SECTION TO THE EXTENT THAT THE DRIVEWAY IS BEING CONSTRUCTED IN ACCORDANCE WITH THE PLANS APPROVED PURSUANT TO A REVIEW PROCESS AUTHORIZED BY A ZONING OR SUBDIVISION ORDINANCE.

DRIVEWAY INDUSTRIAL

PA-07	SCALE 1": 3'	DRAWN BY D. J. Señeres
	DATE 03/27/2012	APRROVED BY City Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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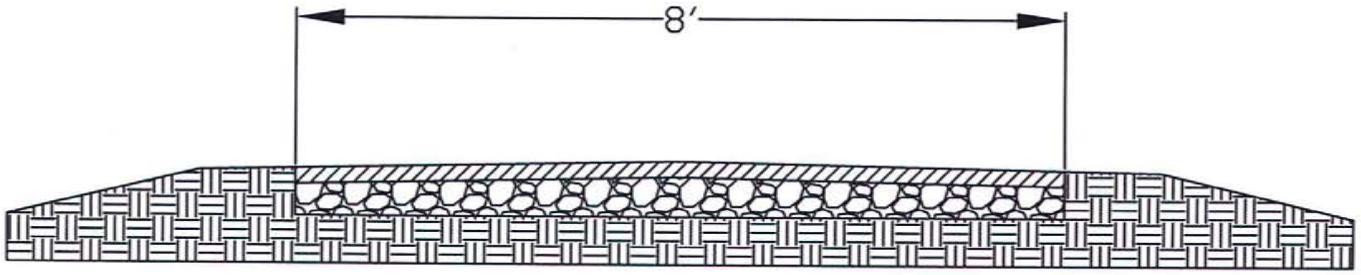

- SF 9.5B PG 64-22[2-inches]
- I 19.0B PG 64-22 [0-inches]
- CONCRETE, 3000 psi [0-inches]
- AGGREGATE BASE COURSE [4-inches]
- EXISTING GROUND

A. USE OF THE FOLLOWING DETAIL IS ONLY AUTHORIZED UPON APPROVAL OF THE PROJECT BY THE TECHNICAL REVIEW COMMITTEE.
B. ALL PROJECTS IN THE CITY OF ARCHDALE ARE SUBJECT TO A WARRANTY PERIOD OF A MINIMUM OF ONE YEAR FOLLOWING ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER.
C. DURING THE WARRANTY PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DISCREPANCIES IN PERFORMANCE OF THE INTENDED DESIGN. AS A MINIMUM, PERFORMANCE ITEMS TO BE MONITORED SHALL INCLUDE EROSION AND SEDIMENT CONTROL FEATURES, STORMWATER RUNOFF CONTROLS, MATERIALS, AND WORKMANSHIP.
D. PAVEMENT SECTIONS SHALL BE CONSTRUCTED AS SHOWN UNLESS REVISED PAVEMENT WITH EQUIVALENT STRUCTURAL NUMBER IS APPROVED BY THE CITY ENGINEER.

PEDESTRIAN GREENWAY

PA-08

SCALE 1":2'	DRAWN BY D. J. Señeres
DATE 03/27/2012	APPROVED BY City Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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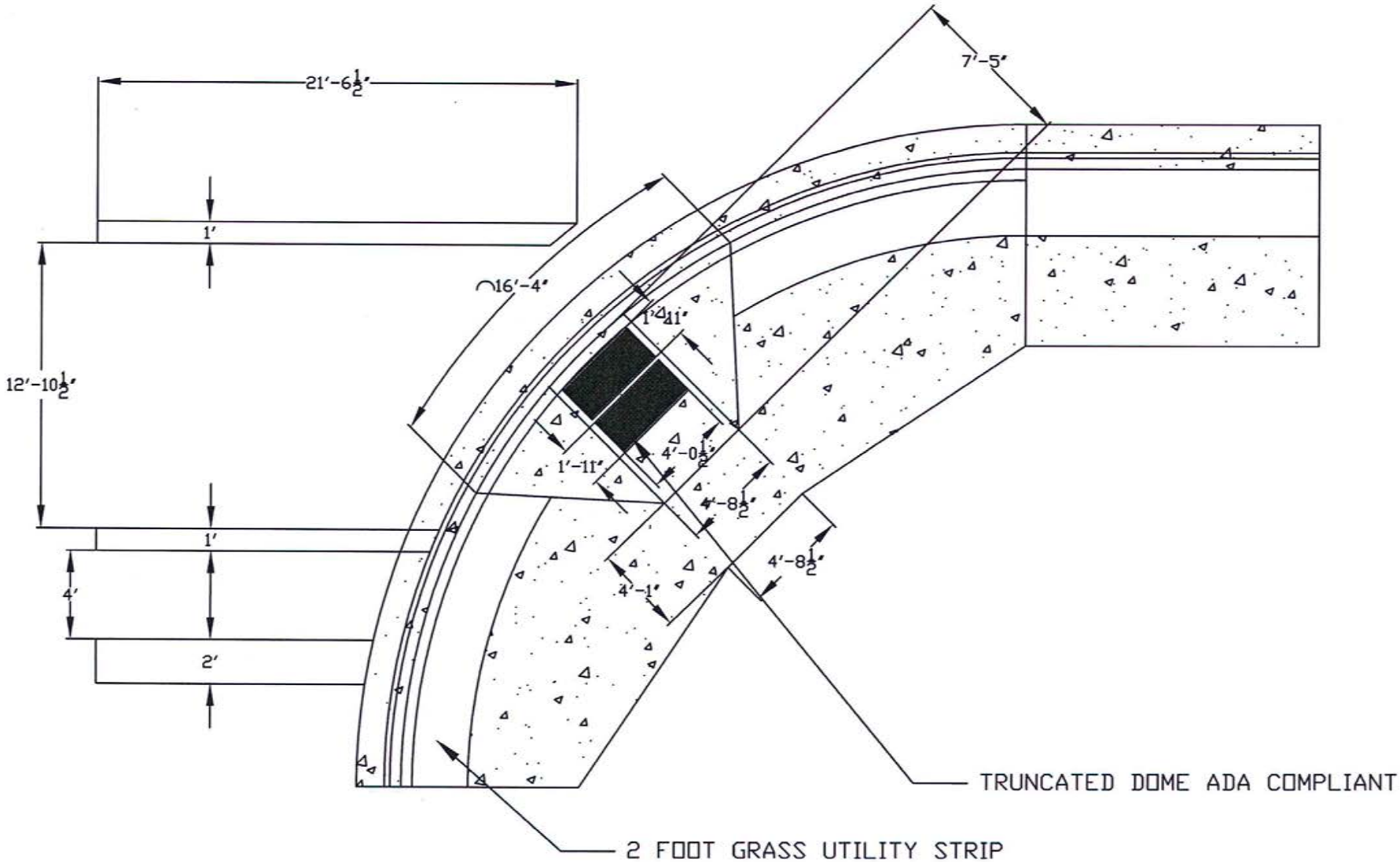

HANDICAP RAMP

PA-09	SCALE CUSTOM	DRAWN BY D. J. Señeres
	DATE 03/27/2012	APPROVED BY DCity Council

CITY OF ARCHDALE PAVEMENT DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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NOTES:

POLE HEIGHTS HAVE
A TOLERANCE OF ± 2

MODEL MS805B

1. THE DEVELOPER, CONTRACTOR, OR HOA SHALL MEET THE STANDARDS AS DEPICTED. THE STANDARDS DEPICTED ARE BASED ON THE CURRENT PRACTICES OF DUKE ENERGY AS SOLE SOURCE UTILITY PROVIDER FOR PLACEMENT OF DECORATIVE LIGHTS. ALL WIRES SHALL BE INSTALLED UNDERGROUND.
2. ALL NEW DEVELOPMENTS WITH PUBLIC STREETS REQUIRE DECORATIVE FIXTURES. A STREET LIGHTING PLAN DESIGNED BY DUKE ENERGY SHALL BE INCLUDED AS PART OF A TRC SUBMITTAL. IF A TRC REVIEW IS NOT REQUIRED THE STREET LIGHTING PLAN SHALL BE REVIEWED BY PLANNING STAFF.
3. ALL DECORATIVE FIXTURES SHALL BE LOCATED IN THE PUBLIC RIGHT OF WAY IN A MANNER SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC.
4. THE DEVELOPER, CONTRACTOR, OR HOA IS RESPONSIBLE FOR INSTALLATION AND COST OF DECORATIVE FIXTURES. THE COST OF THE FIXTURES MUST BE PAID UPFRONT. THE CITY WILL NOT ACCEPT RESPONSIBILITY FOR THE ENERGY COSTS OF ANY DECORATIVE FIXTURES THAT ARE LEASED.
5. EACH DECORATIVE LIGHT FIXTURE SHALL BE SPACED 150'-200' IN A STAGGERED PATTERN UNLESS THE LAYOUT DICTATES AN ALTERNATIVE IS NECESSARY. EACH DECORATIVE LIGHT FIXTURE SHALL BE LOCATED ON PROPERTY LINES. A FIXTURE MAY BE PLACED AT A STREET INTERSECTION AT THE DISCRETION OF THE CITY THROUGH CONSULTATION WITH DUKE ENERGY.
6. THE CITY REQUIRES A 100 WATT, 9500 LUMEN HIGH PRESSURE SODIUM BULB IN EACH DECORATIVE LIGHT FIXTURE.
7. DECORATIVE STREET LIGHTS SHALL BE INSPECTED IN THE SAME MANNER AS STREETS AND UTILITIES AND WILL BE SUBJECT TO A 1 YEAR WARRANTY PERIOD. AFTER ACCEPTANCE BY CITY COUNCIL, THE CITY WILL PAY FOR THE ENERGY COST OF EACH LIGHT AT THE CURRENT GOVERNMENT RATE SCHEDULE OF DUKE ENERGY.
8. IF THE DEVELOPER, CONTRACTOR, OR HOA WISH TO INSTALL FIXTURES THAT EXCEED THE CITY'S SPACING REQUIREMENTS OR WISH TO INSTALL BULBS THAT EXCEED THE CITY'S REQUIREMENTS THE DEVELOPER, CONTRACTOR, OR HOA SHALL BE RESPONSIBLE FOR PAYING FOR THE COSTS THAT EXCEED CITY STANDARDS. THE CITY RESERVES THE RIGHT TO APPROVE AN OUTDOOR LIGHTING PLAN THAT EXCEEDS THE STANDARDS REQUIRED BY DUKE ENERGY.

STANDARD – DECORATIVE		CITY OF ARCHDALE LIGHT SYSTEM DETAIL	CITY OF ARCHDALE NORTH CAROLINA
PA-10	SCALE CUSTOM / DRAWN BY D. J. Señeres		
	DATE 09/25/2012 / APPROVED BY City Council		

NO.	DATE	REVISION
2	09/19/12	Modifications for work session
1	07/08/12	Initial Standards, Duke Energy

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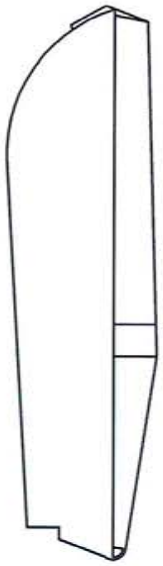
NOTES:



POLE HEIGHTS HAVE
A TOLERANCE OF ± 2

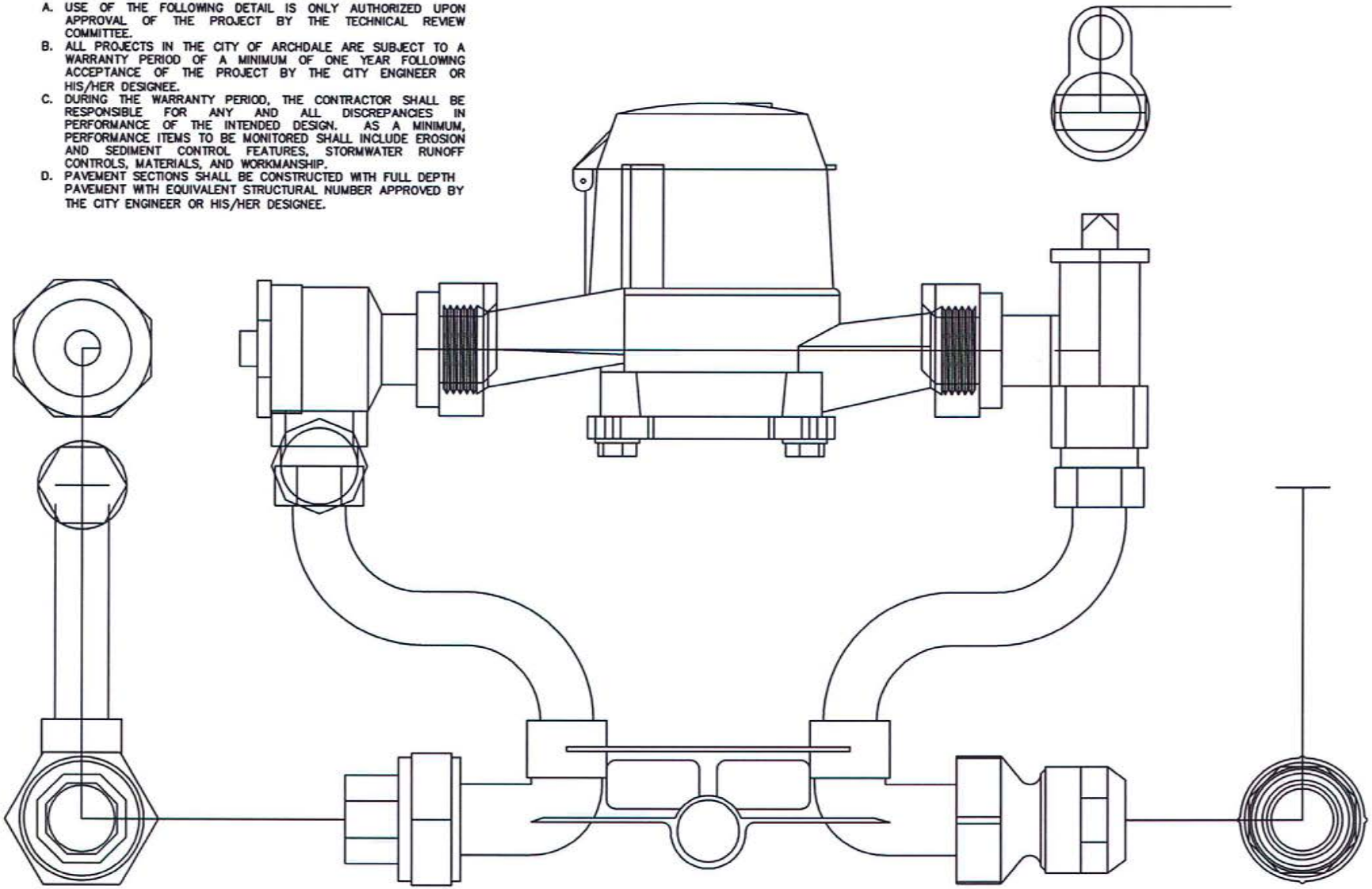
1. THE DEVELOPER, CONTRACTOR, OR HOA SHALL MEET THE STANDARDS AS DEPICTED. THE STANDARDS DEPICTED ARE BASED ON THE CURRENT PRACTICES OF DUKE ENERGY AS SOLE SOURCE UTILITY PROVIDER FOR PLACEMENT OF COBRA LIGHTS. ALL WIRES SHALL BE INSTALLED UNDERGROUND.
2. COBRA FIXTURES ARE INTENDED TO BE INSTALLED WITHIN EXISTING NEIGHBORHOODS WHEN THEY MEET THE CRITERIA OF THE STANDARDS. EACH REQUEST FOR A COBRA FIXTURE SHALL BE REVIEWED BY PLANNING STAFF.
3. ALL COBRA FIXTURES SHALL BE LOCATED IN THE PUBLIC RIGHT OF WAY IN A MANNER SO AS NOT TO INTERFERE WITH PEDESTRIAN OR VEHICULAR TRAFFIC.
4. EACH COBRA LIGHT FIXTURE SHALL BE SPACED 400'-500' UNLESS THE LAYOUT DICTATES AN ALTERNATIVE IS NECESSARY. EACH COBRA LIGHT FIXTURE SHALL BE LOCATED ON PROPERTY LINES. A FIXTURE MAY BE PLACED AT A STREET INTERSECTION AT THE DISCRETION OF THE CITY THROUGH CONSULTATION WITH DUKE ENERGY.
5. EACH COBRA FIXTURE SHALL BE A PLACED ON A MINIMUM 10' ARM ATTACHED TO A UTILITY OR DECORATIVE POLE.
6. THE CITY REQUIRES A 150 WATT, 16000 LUMEN HIGH PRESSURE SODIUM BULB IN EACH COBRA LIGHT FIXTURE.
7. IF THE DEVELOPER, CONTRACTOR, OR HOA WISH TO INSTALL FIXTURES THAT EXCEED THE CITY'S SPACING REQUIREMENTS OR WISH TO INSTALL BULBS THAT EXCEED THE CITY'S REQUIREMENTS THE DEVELOPER, CONTRACTOR, OR HOA SHALL BE RESPONSIBLE FOR PAYING FOR THE COSTS THAT EXCEED CITY STANDARDS. THE CITY RESERVES THE RIGHT TO APPROVE AN OUTDOOR LIGHTING PLAN THAT EXCEEDS THE STANDARDS REQUIRED BY DUKE ENERGY.

STANDARD – COBRA			CITY OF ARCHDALE LIGHT SYSTEM DETAIL	CITY OF ARCHDALE NORTH CAROLINA	
PA-11	SCALE CUSTOM	DRAWN BY D. J. Señeres			
	DATE 09/25/2012	APPROVED BY City Council			

NO.	DATE	REVISION
2	09/19/12	Modifications for work session
1	07/08/12	Initial Standards, Duke Energy

C:\R\AutoCAD Standard Details\PA-11.dwg

A. USE OF THE FOLLOWING DETAIL IS ONLY AUTHORIZED UPON APPROVAL OF THE PROJECT BY THE TECHNICAL REVIEW COMMITTEE.
B. ALL PROJECTS IN THE CITY OF ARCHDALE ARE SUBJECT TO A WARRANTY PERIOD OF A MINIMUM OF ONE YEAR FOLLOWING ACCEPTANCE OF THE PROJECT BY THE CITY ENGINEER OR HIS/HER DESIGNEE.
C. DURING THE WARRANTY PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DISCREPANCIES IN PERFORMANCE OF THE INTENDED DESIGN. AS A MINIMUM, PERFORMANCE ITEMS TO BE MONITORED SHALL INCLUDE EROSION AND SEDIMENT CONTROL FEATURES, STORMWATER RUNOFF CONTROLS, MATERIALS, AND WORKMANSHIP.
D. PAVEMENT SECTIONS SHALL BE CONSTRUCTED WITH FULL DEPTH PAVEMENT WITH EQUIVALENT STRUCTURAL NUMBER APPROVED BY THE CITY ENGINEER OR HIS/HER DESIGNEE.



WATER METER, 3/4-1

WD-01

SCALE CUSTOM | DRAWN BY D. J. Señeres

DATE 04/24/2012 | APPROVED BY City Council

CITY OF ARCHDALE WATER SYSTEM DETAIL

CITY OF ARCHDALE NORTH CAROLINA

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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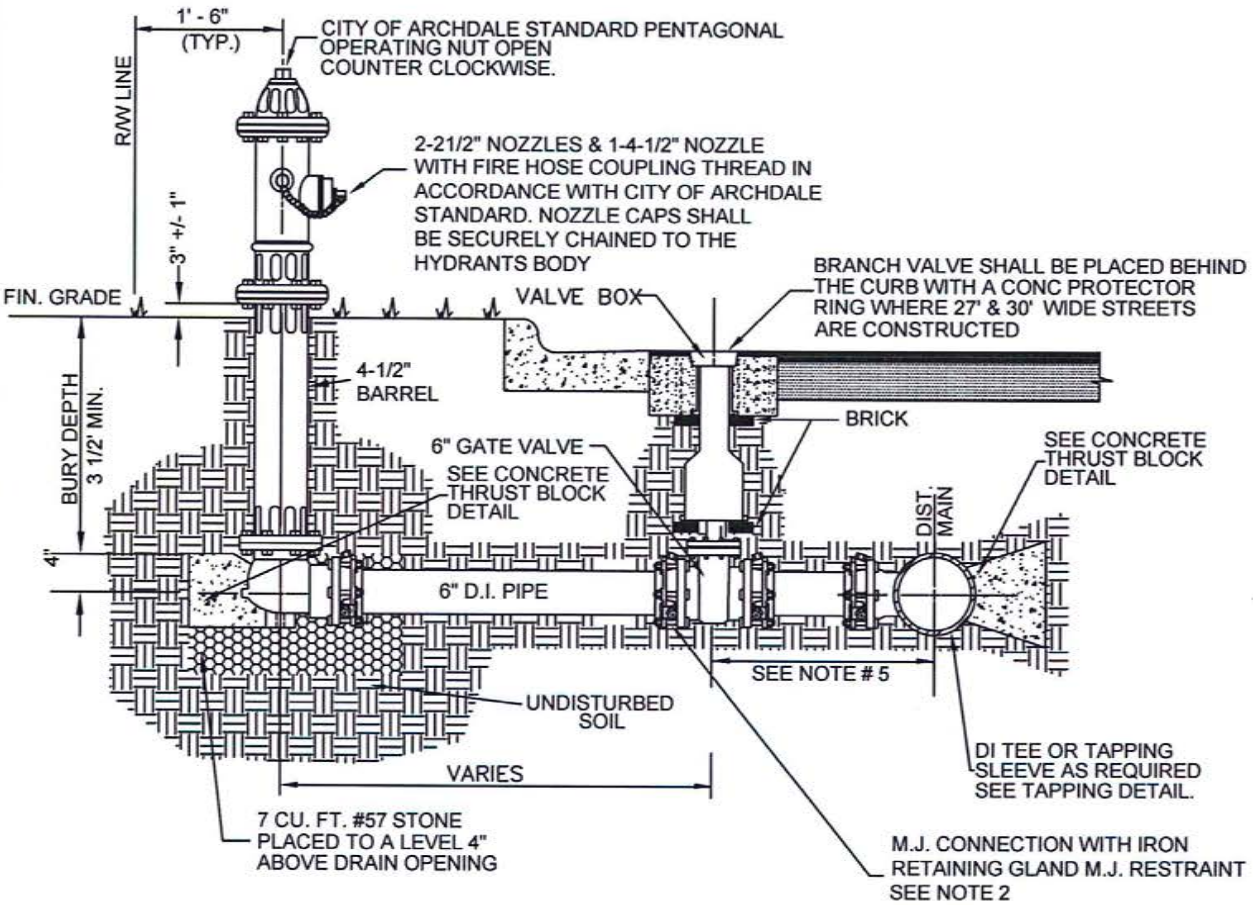

NOTES:

1. FIRE HYDRANT SHALL BE MODELS MANUFACTURED BY MUELLER CO. (CENTURIAN), AMERICAN VALVE AND HYDRANT CO. (MODEL MARK 73), KENNEDY OR APPROVED EQUAL.
2. ALL VALVES AND HYDRANTS SHALL HAVE M.J. CONNECTIONS WITH IRON RETAINING GLAND M.J. RESTRAINT OR ANCHOR LUGS AND 3/4" DIA. STEEL ANCHOR RODS. IF DUCTILE IRON, USE MEGALUG CONNECTIONS.
3. 3/4" DIA. STEEL RODS AND ALL BURIED SURFACES SHALL BE PAINTED WITH 2 COATS OF BITUMINOUS PAINT. MARRED OR SCRATCHED SURFACES SHALL BE REPAINTED. PAINT SHALL CURE PRIOR TO BACK FILLING TRENCH.
4. FIRE HYDRANT SHALL BE FIELD PAINTED IN ACCORDANCE WITH CITY OF ARCHDALE STANDARDS BEFORE PROJECT IS ACCEPTED.
5. HYDRANT VALVE SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE MAIN, BUT DO NOT PLACE VALVE IN PROPOSED OR EXISTING CURB AND GUTTER. IF THE STREET IS SOIL AND NO PAVING IS TO BE DONE AT THIS TIME, THE LOCATION OF THE VALVE IS TO BE DETERMINED BY THE CITY OF ARCHDALE CITY ENGINEER OR HIS/HER DESIGNEE.
6. FIRE HYDRANTS SHALL BE PLACED AS DIRECTED BY THE CITY OF ARCHDALE CITY ENGINEER OR HIS/HER DESIGNEE
7. HYDRANT BRANCH SHALL NOT BE BACK FILLED UNTIL INSPECTED AND APPROVED BY CITY OF ARCHDALE CITY ENGINEER OR HIS/HER DESIGNEE.
8. GATE VALVE AND BOX SHALL BE IN ACCORDANCE WITH CITY OF ARCHDALE STANDARD DETAIL.
9. HYDRANT EXTENSIONS SHALL BE APPROVED BY CITY OF ARCHDALE CITY ENGINEER OR HIS/HER DESIGNEE.

FIRE HYDRANT

WD-02

SCALE	CUSTOM	DRAWN BY	D. J. Señeres
DATE	04/24/2012	APPROVED BY	City Council

CITY OF ARCHDALE WATER SYSTEM DETAIL

CITY OF ARCHDALE NORTH CAROLINA

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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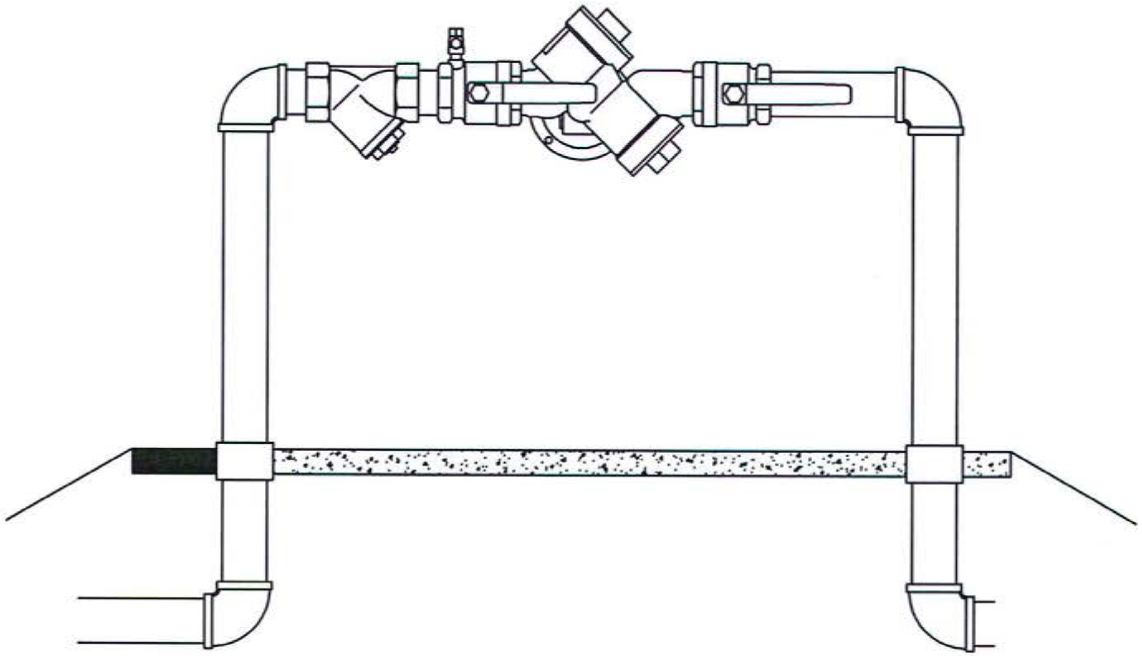

NOTES:

1. THERE SHALL BE NO UNAPPROVED TAPS, PIPE BRANCHES, BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER - USING DEVICES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED BACKFLOW PREVENTER.
2. REMOVEABLE INSULATED ENCLOSURE WITH FREEZE PROTECTION BY 110 VOLT HEAT TYPE IS RECOMMENDED FOR ABOVE GROUND ASSEMBLIES
3. THE CITY OF ARCHDALE REQUIRES A SEPARATE METER FOR LAWN IRRIGATION AS OF JULY 1, 2009.
4. SEE CITY OF ARCHDALE SCHEDULE OF FEES FOR CURRENT CONNECTION FEE. NO TAP LARGER THAN 1 -1/2 INCH WILL BE ALLOWED FOR LAWN IRRIGATION
5. INSPECTION ARE REQUIRED FOR ALL BACKFLOW PREVENTERS. CALL CITY OF ARCHDALE WATER/SEWER SYSTEMS MANAGER (336) 434-7464
6. ALL BACKFLOW PREVENTERS ARE REQUIRED TO BE TESTED ANNUALLY.
7. SEE CITY OF ARCHDALE BACKFLOW CROSS-CONNECTION POLICY FOR DETAILS.
8. "BACKFLOW CONNECTION" REFERS TO BACKFLOW CROSS-CONNECTION AND DOMESTIC SERVICE FOR 3/4" LINE AND UP, INCLUDING LAWN IRRIGATION.

BACKFLOW CONNECTION

WD-03

SCALE CUSTOM	DRAWN BY D. J. Señeres
DATE 04/24/2012	APPROVED BY City Council

CITY OF ARCHDALE WATER SYSTEM DETAIL

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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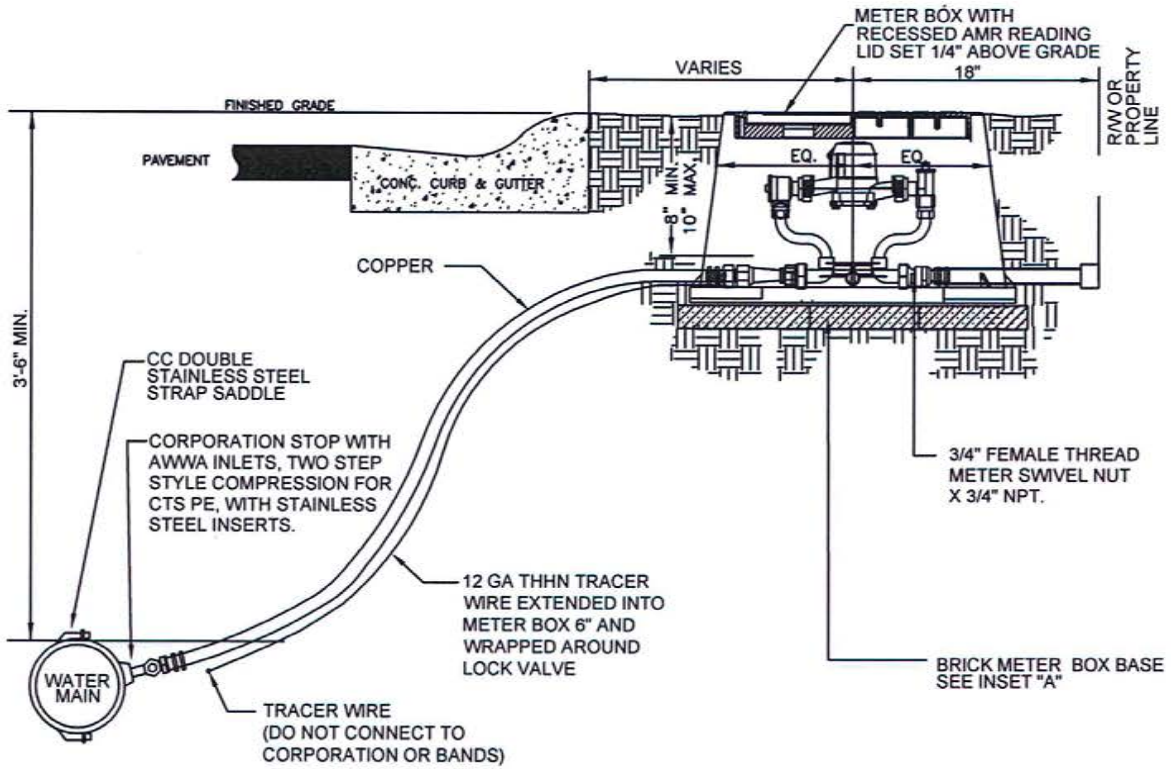

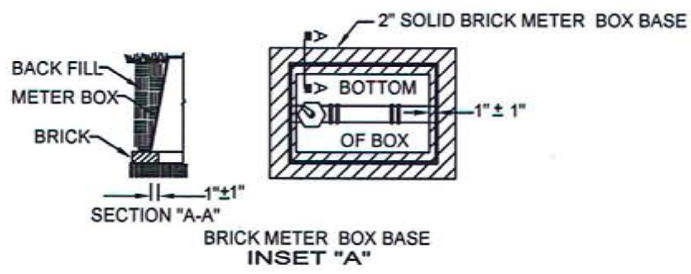

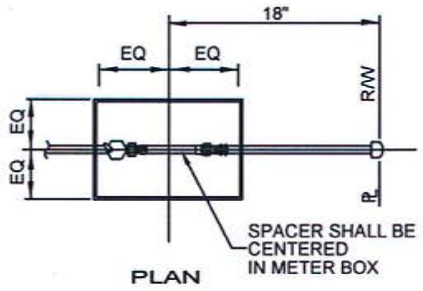

NOTES:

1. ALL MATERIALS TO BE APPROVED BY CITY OF ARCHDALE
2. COPPER SERVICE LATERAL 3/4" COPPER TO 3/4 X 5/8 SETTER
3. SERVICE LATERAL INSTALLATION SHALL BE APPROVED BY CITY OF ARCHDALE
4. WATER SERVICE LOCK VALVE TO BE LOCATED 18" FROM SANITARY SEWER CLEAN OUT STACK WHEN INSTALLED IN SAME DITCH.
5. WHEN INSTALLED IN A PAVED AREA, METER BOX TO BE SET 1/4" ABOVE FINISHED PAVEMENT GRADES AND PAVEMENT FEATHERED TO TOP OF BOX TO PROVIDE DRAIN AWAY FROM BOX
6. C.I. METER BOXES SHALL BE USED IN TRAFFIC AREAS.
7. PERIMETER SOLID CONCRETE BRICK BASE WITH NO GAPS, DO NOT LAY BRICK ON PIPE. SEE INSET "A"
8. WHERE ASPHALT CURB OR STRIP PAVEMENT EXIST, THE LOCATION OF BOX SHALL BE AS DIRECTED BY CITY ENGINEER OR HIS/HER DESIGNEE.
9. DISTANCE FROM TOP OF LOCK VALVE OPERATING STEM TO TOP OF BOX SHALL BE 8" MIN. TO 10" MAX.
10. RESIDENTIAL METER BOX SHALL BE SET 18" FROM R/W TO CENTERLINE OF METER BOX PERPENDICULAR TO THE R/W.
11. COMMERCIAL METER BOX LOCATION SHALL BE AS APPROVED (IN NO CASE SHALL METER BE INSTALLED LESS THAN 5' FROM BLDG. TO EDGE OF BOX).
12. LATERAL SHALL BE CENTERED ON LOT UNLESS OTHERWISE NOTED.
13. LATERAL SHALL NOT BE BACK FILLED UNTIL INSPECTED BY CITY ENGINEER OR HIS/HER DESIGNEE.
14. WATER MAIN AND LATERAL SHALL PASS HYDROSTATIC, LEAKAGE AND STERILIZATION TESTS.
15. BARB-TYPE FITTINGS ARE NOT ACCEPTABLE

WATER TAP

WD-04

SCALE CUSTOM | DRAWN BY D. J. Señeres

DATE 04/24/2012 | APPROVED BY City Council

CITY OF ARCHDALE WATER SYSTEM DETAIL

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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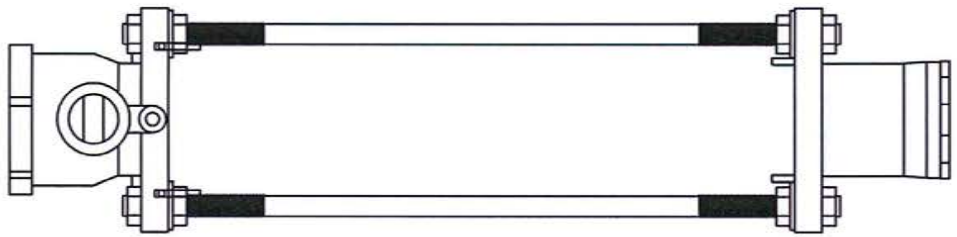

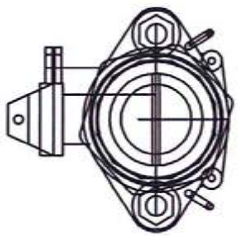

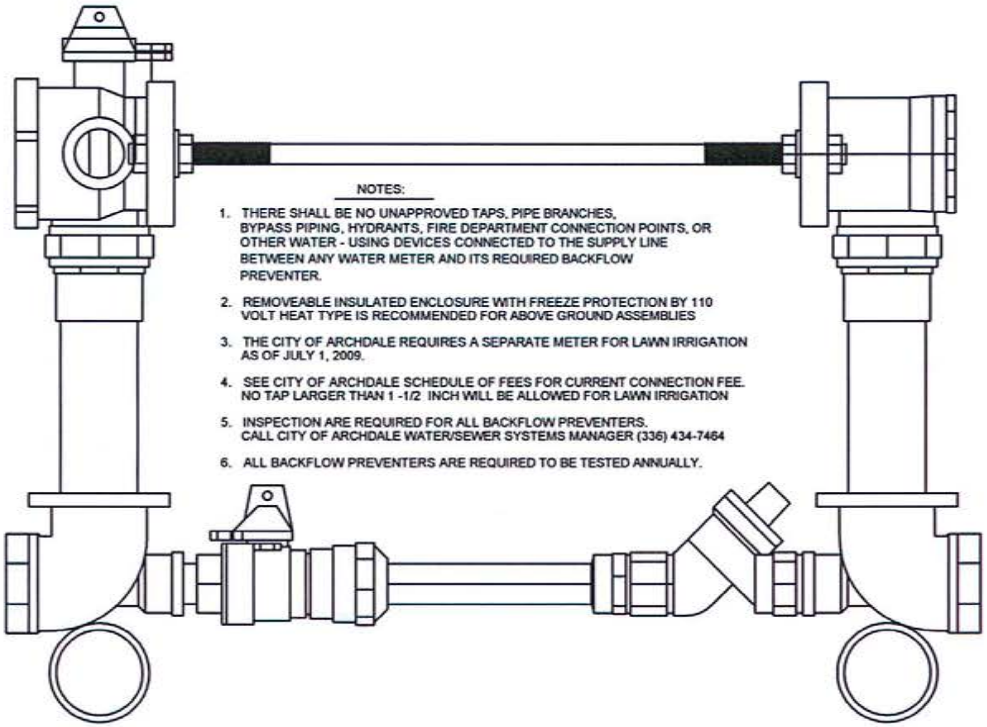

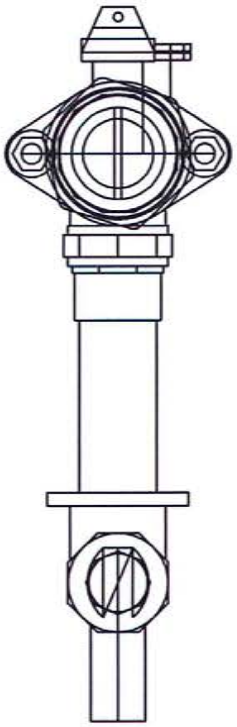

NOTES:

1. THERE SHALL BE NO UNAPPROVED TAPS, PIPE BRANCHES, BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER - USING DEVICES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS REQUIRED BACKFLOW PREVENTER.
2. REMOVEABLE INSULATED ENCLOSURE WITH FREEZE PROTECTION BY 110 VOLT HEAT TYPE IS RECOMMENDED FOR ABOVE GROUND ASSEMBLIES
3. THE CITY OF ARCHDALE REQUIRES A SEPARATE METER FOR LAWN IRRIGATION AS OF JULY 1, 2009.
4. SEE CITY OF ARCHDALE SCHEDULE OF FEES FOR CURRENT CONNECTION FEE. NO TAP LARGER THAN 1 -1/2 INCH WILL BE ALLOWED FOR LAWN IRRIGATION
5. INSPECTION ARE REQUIRED FOR ALL BACKFLOW PREVENTERS. CALL CITY OF ARCHDALE WATER/SEWER SYSTEMS MANAGER (336) 434-7464
6. ALL BACKFLOW PREVENTERS ARE REQUIRED TO BE TESTED ANNUALLY.

WATER METER, 1 1/2 TO 2

WD-05

SCALE CUSTOM	DRAWN BY D. J. Señeres
DATE 04/24/2012	APRROVED BY City Council

CITY OF ARCHDALE WATER SYSTEM DETAIL

CITY OF ARCHDALE NORTH CAROLINA

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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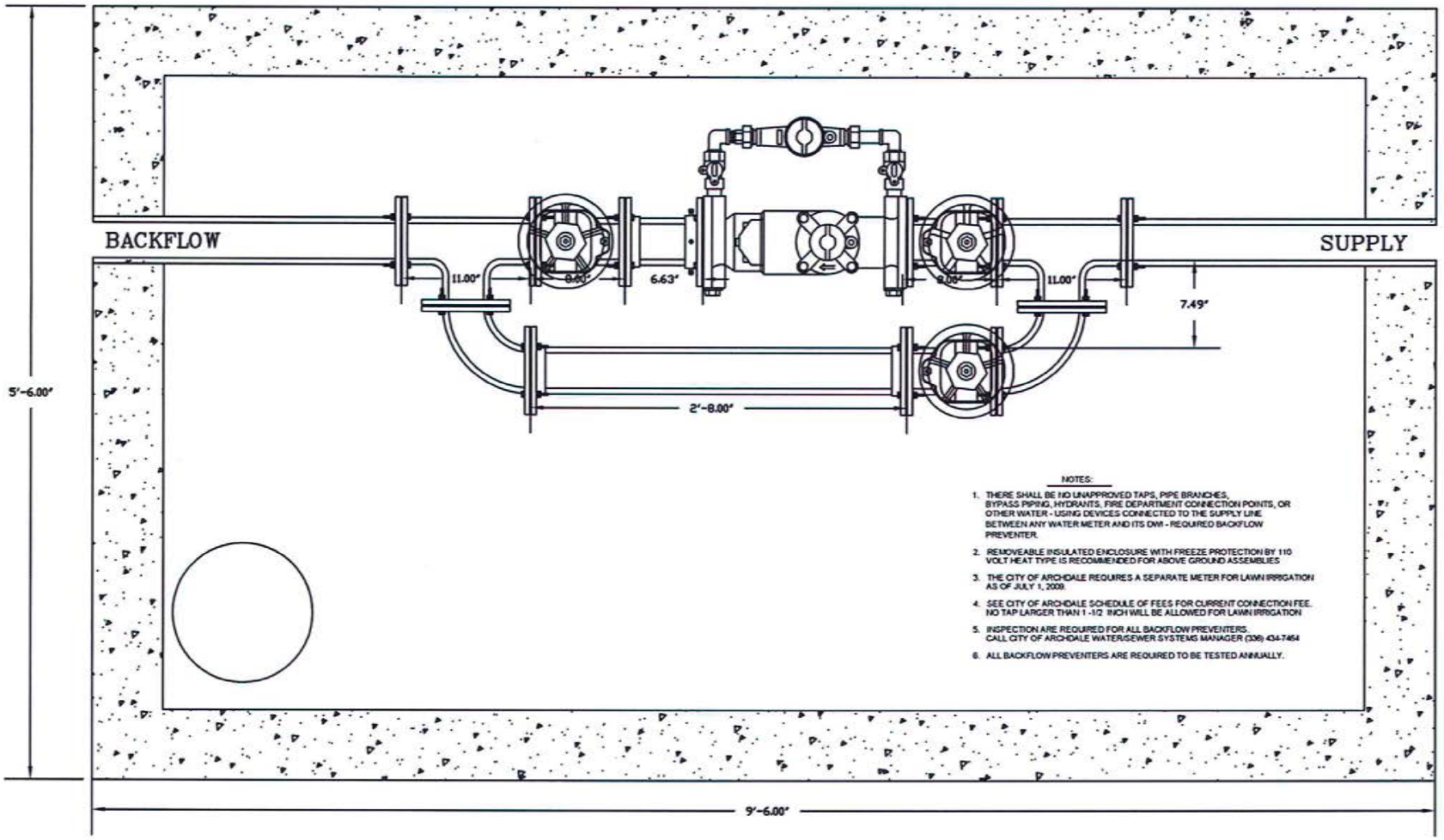

NOTES:

1. THERE SHALL BE NO UNAPPROVED TAPS, PIPE BRANCHES, BYPASS PIPING, HYDRANTS, FIRE DEPARTMENT CONNECTION POINTS, OR OTHER WATER - USING DEVICES CONNECTED TO THE SUPPLY LINE BETWEEN ANY WATER METER AND ITS DWI - REQUIRED BACKFLOW PREVENTER.
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5. INSPECTION ARE REQUIRED FOR ALL BACKFLOW PREVENTERS. CALL CITY OF ARCHDALE WATER/SEWER SYSTEMS MANAGER (336) 434-7464
6. ALL BACKFLOW PREVENTERS ARE REQUIRED TO BE TESTED ANNUALLY.

3-INCH METER VAULT

WD-06	SCALE CUSTOM	DRAWN BY D. J. Señeres
	DATE 04/24/2012	APPROVED BY Engineering

CITY OF ARCHDALE WATER SYSTEM DETAIL

NO.	DATE	REVISION
1	01/19/10	Field Notes for Design
2	03/05/12	Additional Public Works & Planning Comments

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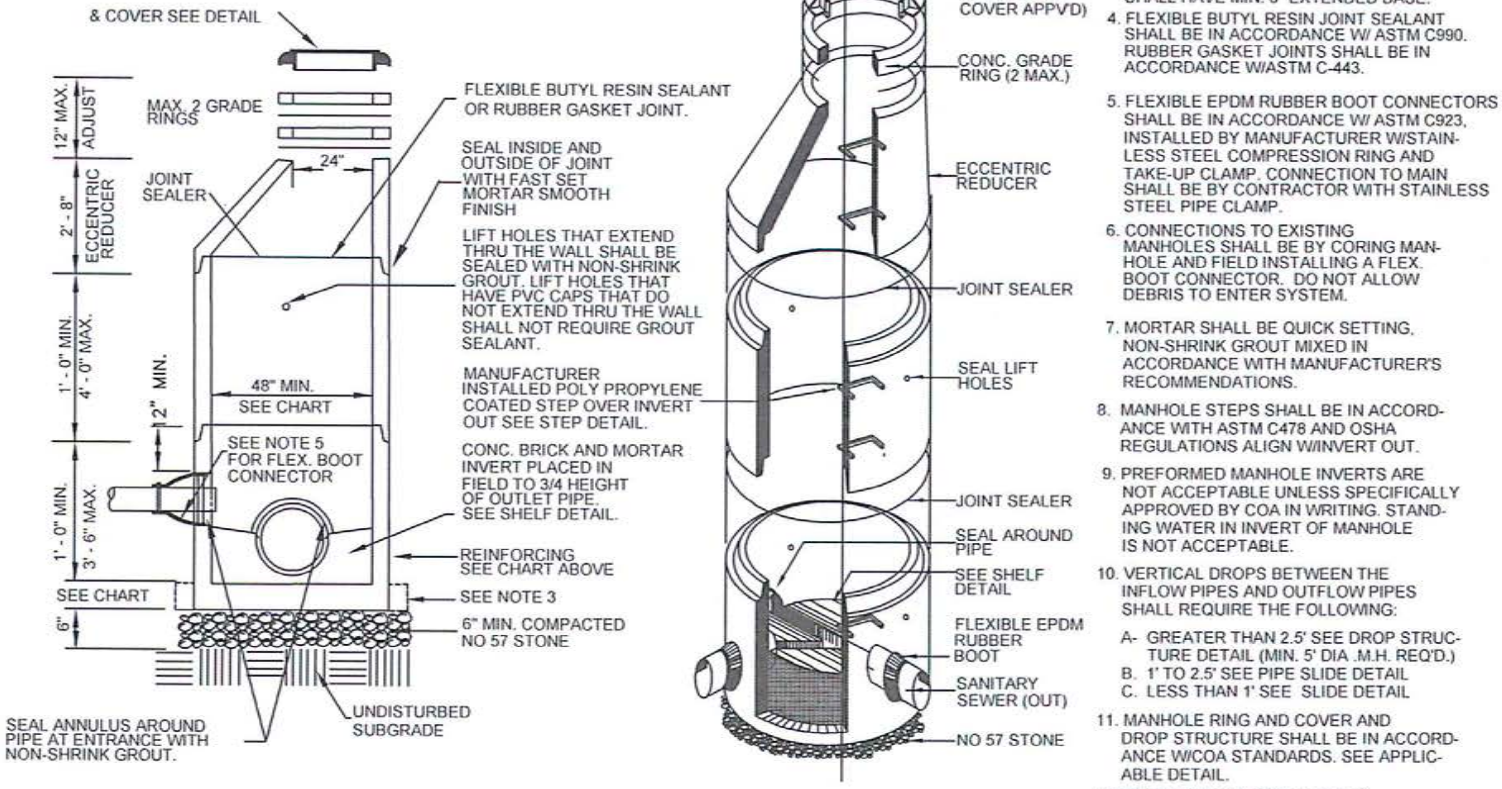
21" & LESS	48" DIAMETER	5"
24" - 36"	60" DIAMETER	6"
42"	72" DIAMETER	7"

CAST IRON FRAME

PIPE SIZES	MANHOLE SIZE	MIN. WALL THICKNESS	MIN. REINF. STEEL	MIN. BASE THICKNESS
			ASTM A-185 0.12 SQ./IN.	6"
			ASTM A-185 0.15 SQ./IN	8"
			ASTM A-185 0.15 SQ./IN.	8"

MANHOLE DIAMETER SIZES MAY BE ADJUSTED ON THE PLANS TO REFLECT SPECIAL CIRCUMSTANCES. REDUCING SLABS ARE NOT ACCEPTABLE ON MANHOLES LESS THAN OR EQUAL TO 6' DIAMETER.



NOTES:

1. PRECAST REINFORCED CONCRETE MANHOLES SHALL BE IN ACCORDANCE WITH ASTM C-478
2. MIN. CONCRETE COMPRESSIVE STRENGTH SHALL BE 4000 PSI.
3. MANHOLES GREATER THAN 12' DEPTH SHALL HAVE MIN. 6" EXTENDED BASE.
4. FLEXIBLE BUTYL RESIN JOINT SEALANT SHALL BE IN ACCORDANCE W/ ASTM C990. RUBBER GASKET JOINTS SHALL BE IN ACCORDANCE W/ASTM C-443.
5. FLEXIBLE EPDM RUBBER BOOT CONNECTORS SHALL BE IN ACCORDANCE W/ ASTM C923, INSTALLED BY MANUFACTURER W/STAINLESS STEEL COMPRESSION RING AND TAKE-UP CLAMP. CONNECTION TO MAIN SHALL BE BY CONTRACTOR WITH STAINLESS STEEL PIPE CLAMP.
6. CONNECTIONS TO EXISTING MANHOLES SHALL BE BY CORING MANHOLE AND FIELD INSTALLING A FLEX. BOOT CONNECTOR. DO NOT ALLOW DEBRIS TO ENTER SYSTEM.
7. MORTAR SHALL BE QUICK SETTING, NON-SHRINK GROUT MIXED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. MANHOLE STEPS SHALL BE IN ACCORDANCE WITH ASTM C478 AND OSHA REGULATIONS ALIGN W/INVERT OUT.
9. PREFORMED MANHOLE INVERTS ARE NOT ACCEPTABLE UNLESS SPECIFICALLY APPROVED BY COA IN WRITING. STANDING WATER IN INVERT OF MANHOLE IS NOT ACCEPTABLE.
10. VERTICAL DROPS BETWEEN THE INFLOW PIPES AND OUTFLOW PIPES SHALL REQUIRE THE FOLLOWING:
    - A- GREATER THAN 2.5' SEE DROP STRUCTURE DETAIL (MIN. 5' DIA .M.H. REQ'D.)
    - B. 1' TO 2.5' SEE PIPE SLIDE DETAIL
    - C. LESS THAN 1' SEE SLIDE DETAIL
11. MANHOLE RING AND COVER AND DROP STRUCTURE SHALL BE IN ACCORDANCE W/COA STANDARDS. SEE APPLICABLE DETAIL.
12. INVERT ON PLANS IS TO MH CL

MANHOLE

WW-01	SCALE CUSTOM	DRAWN BY D. J. Señeres	
	DATE 03/27/2012	APPROVED BY City Council	

CITY OF ARCHDALE WASTE SYSTEM DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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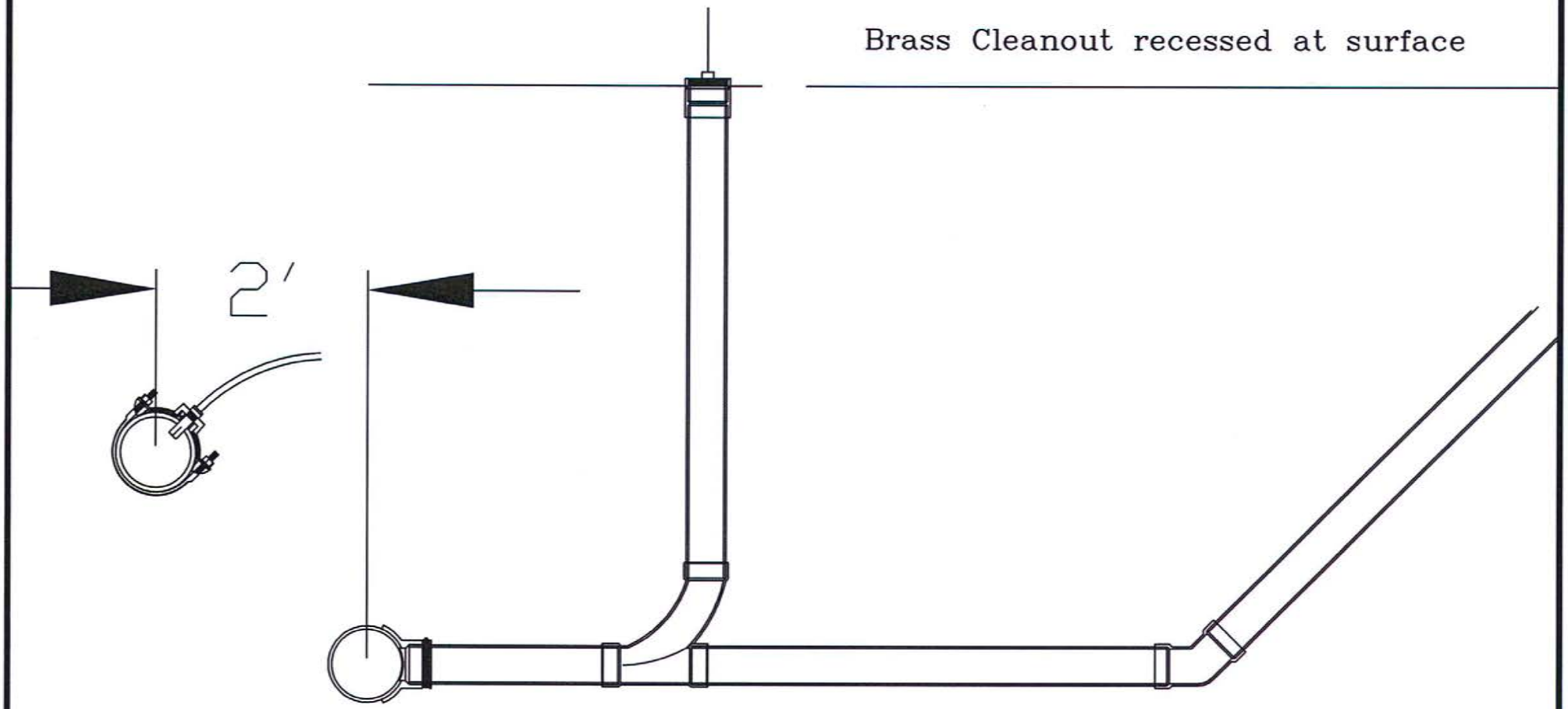

Note separation of water and sewer main

CLEANOUT

WW-02

SCALE CUSTOM	DRAWN BY D. J. Señeres
DATE 03/27/2012	APPROVED BY City Council

CITY OF ARCHDALE WATER SYSTEM DETAIL

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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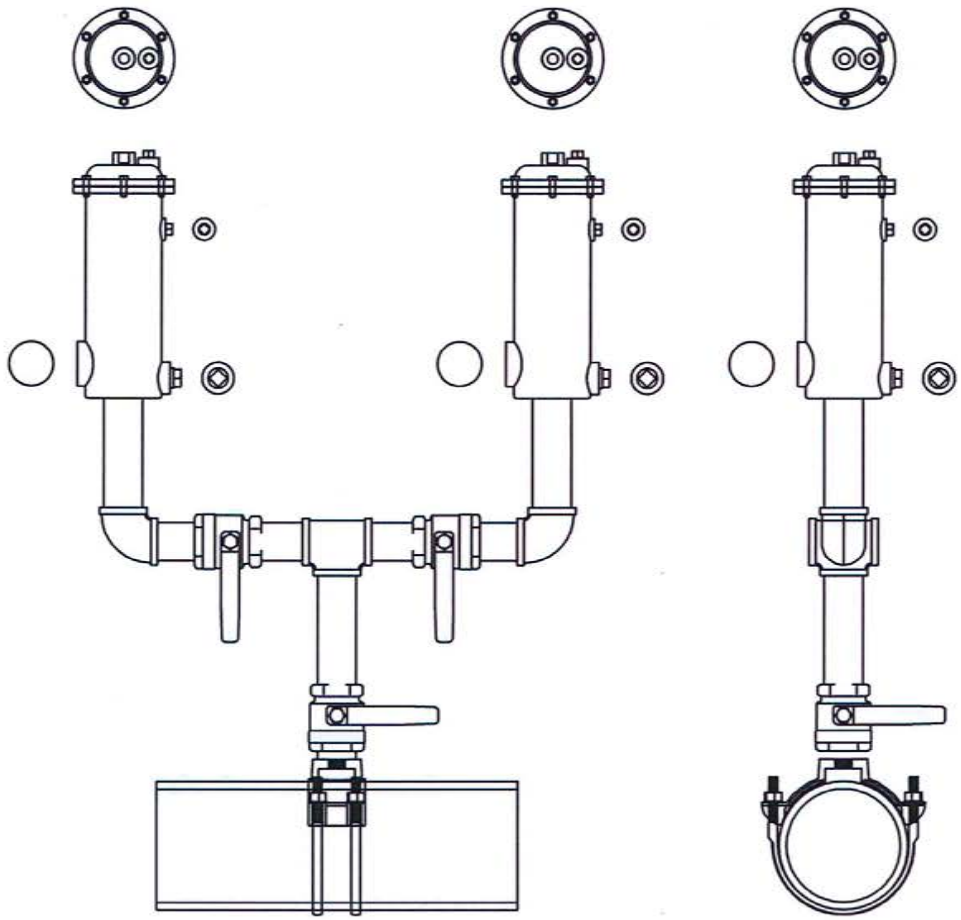

GENERAL NOTE:

ALL CONNECTORS ARE TO BE OF STAINLESS STEEL

PRESSURE RELEASE			CITY OF ARCHDALE WATER SYSTEM DETAIL	CITY OF ARCHDALE NORTH CAROLINA	NO. / DATE / REVISION
WW-03	SCALE CUSTOM	DRAWN BY D. J. Señeres			2 / 07/20/11 / Planning Comments Incorporated in Revision
	DATE 03/27/2012	APPROVED BY City Council			3 / 03/05/12 / Additional Public Works & Planning Comments
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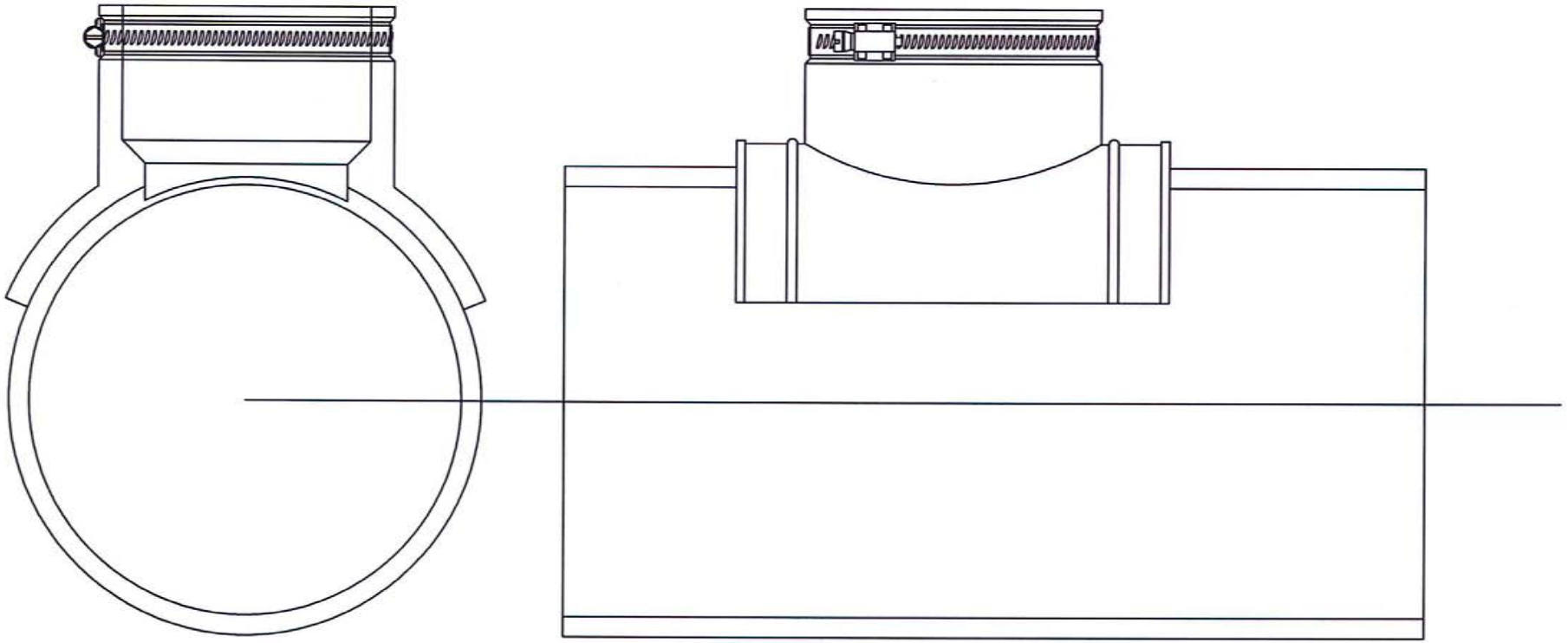

Stainless steel connectors

SADDLE TAP			CITY OF ARCHDALE WATER SYSTEM DETAIL
WW-04	SCALE CUSTOM	DRAWN BY D. J. Señeres	
	DATE 03/27/2012	APPROVED BY City Council	

NO.	DATE	REVISION
2	07/20/11	Planning Comments Incorporated in Revision
3	03/05/12	Additional Public Works & Planning Comments

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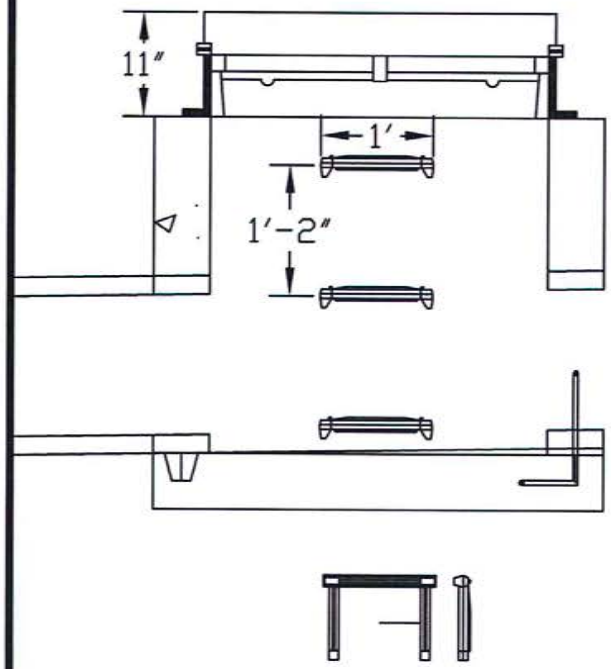
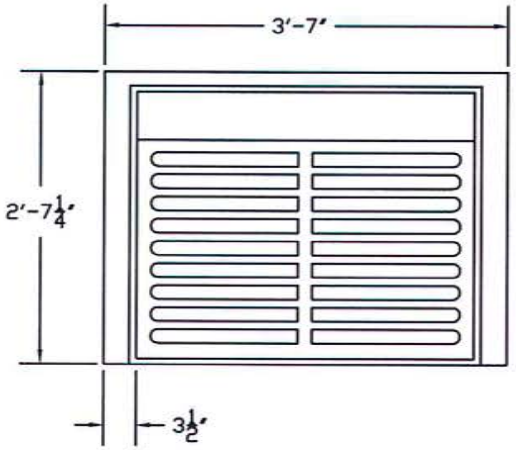
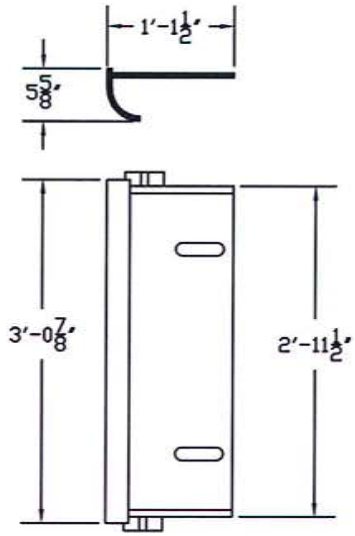
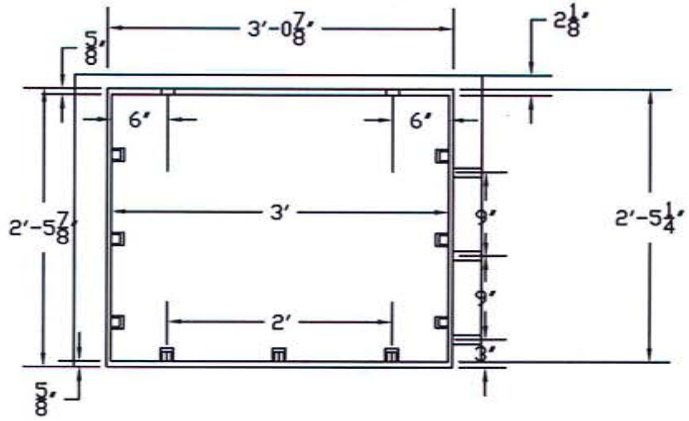
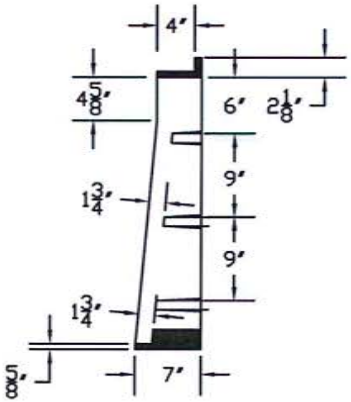
NCDOT STD 840.02 Grate











CATCH BASIN

SW-01

SCALE	CUSTOM	DRAWN BY	D. J. Señeres
DATE	04/24/2012	APPROVED BY	City Council

CITY OF ARCHDALE STORM SYSTEM DETAIL

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1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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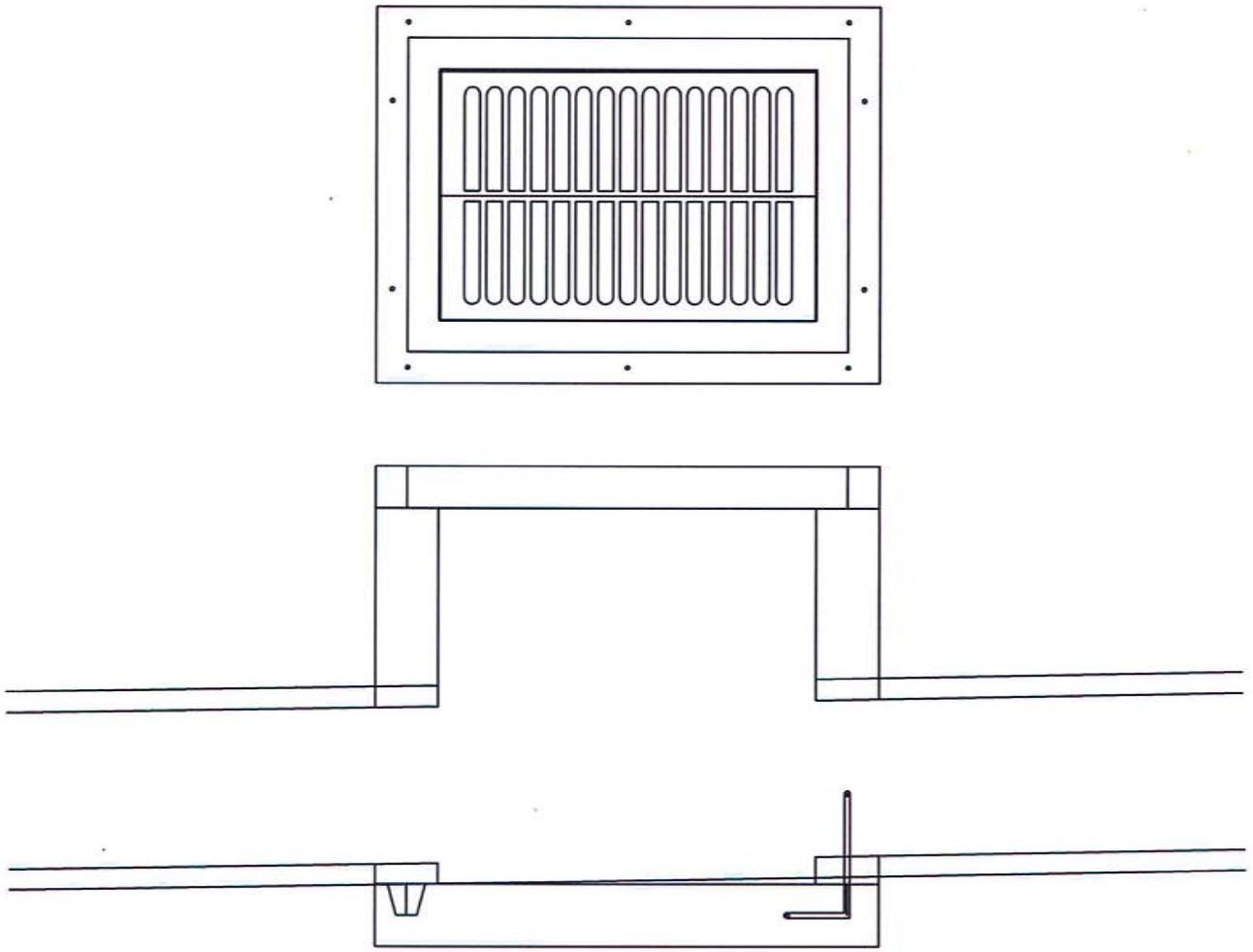
NCDOT STD 840.16 Grate



DROP INLET

SW-02	SCALE CUSTOM	DRAWN BY D. J. Señeres
	DATE 04/24/2012	APPROVED BY City Council

CITY OF ARCHDALE STORM SYSTEM DETAIL

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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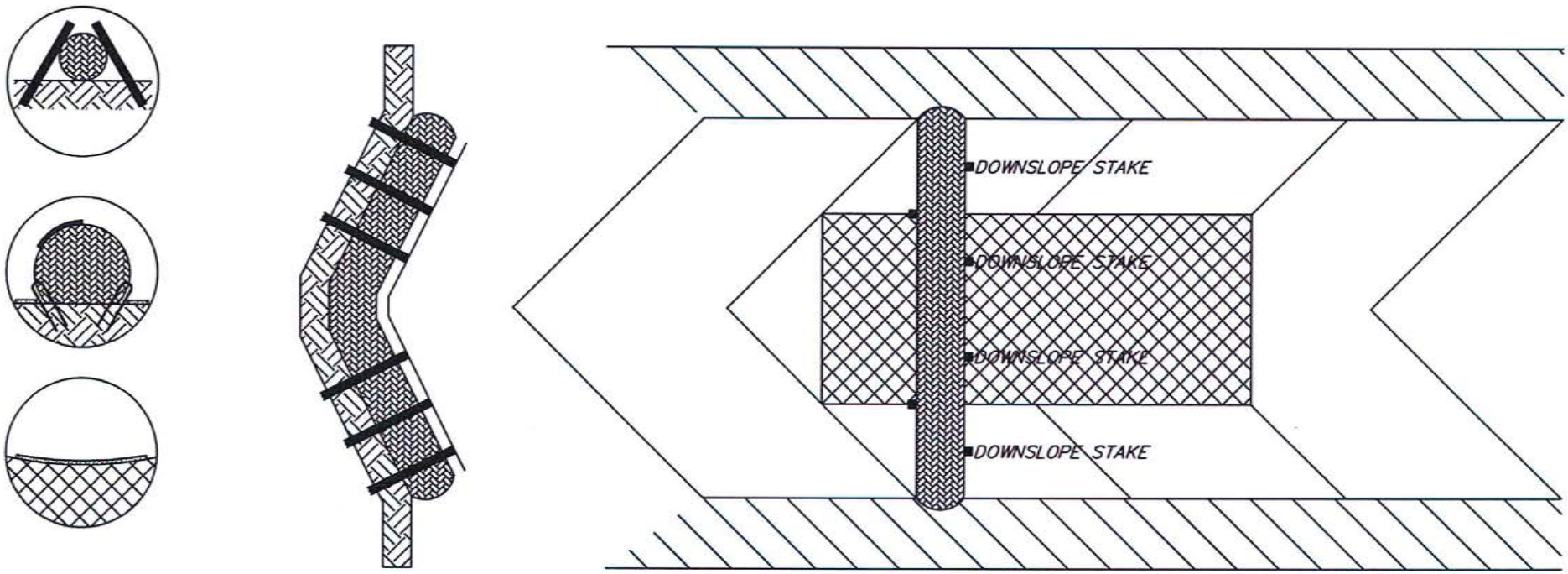

GENERAL NOTES:

USE MINIMUM 12 INCH DIAMETER EXCELSIOR WATTLE.

USE 2 FOOT WOODEN STAKES WITH A 2 INCH BY 2 INCH NOMINAL CROSS SECTION.

ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

PROVIDE STAPLES MADE OF 0.125 INCH DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12 INCHES IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

INSTALL MATTING IN ACCORDANCE WITH MANUFACTURER' STANDARD SPECIFICATIONS.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 INCHES.

POLYACRYLAMIDE WATTLE

SW-03

SCALE CUSTOM	DRAWN BY D. J. Señeres
DATE 04/24/2012	APPROVED BY City Council

CITY OF ARCHDALE STORM SYSTEM DETAIL

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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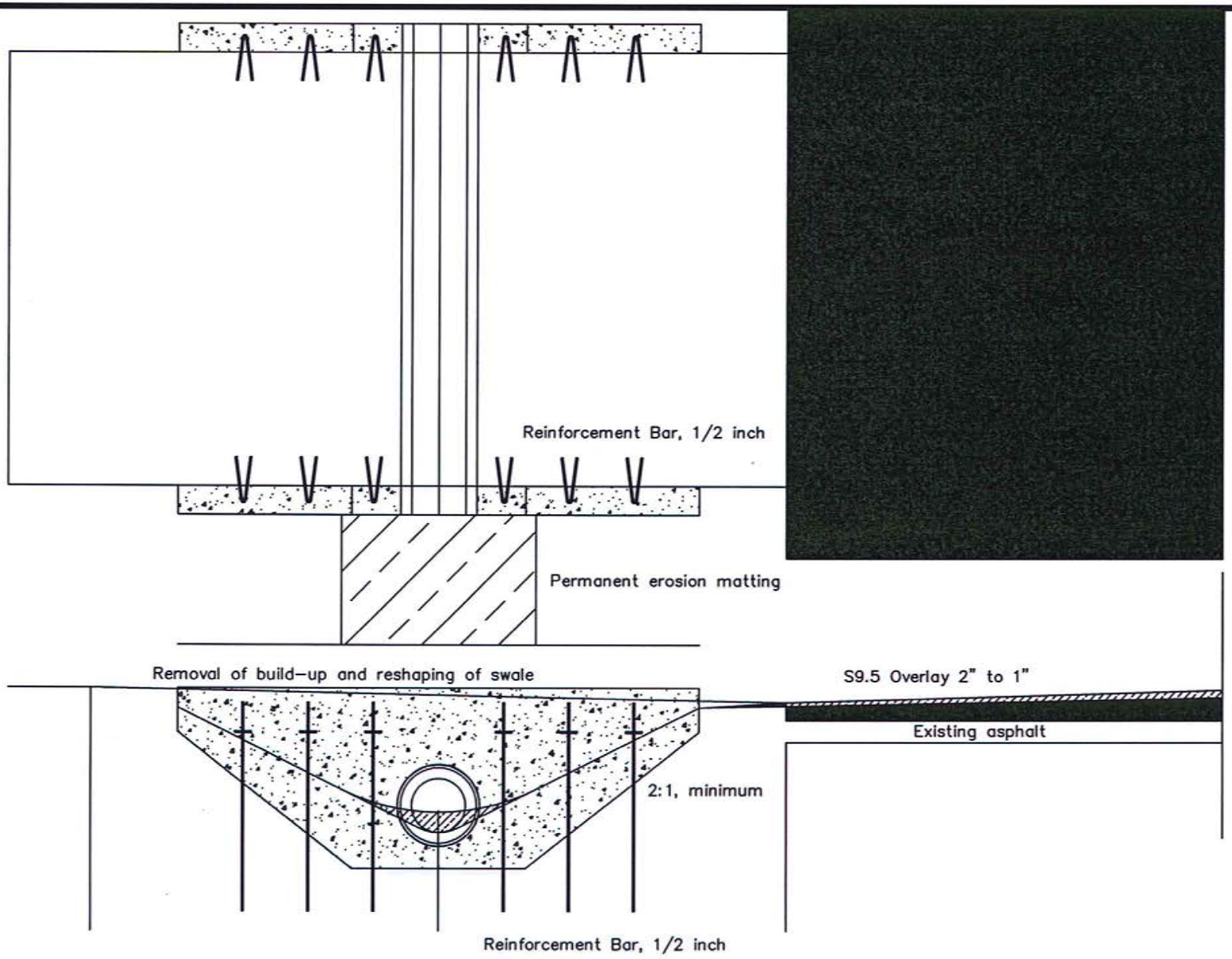

SWALE HEADWALL

SW-04

SCALE	CUSTOM	DRAWN BY	D. J. Señeres
DATE	04/24/2012	APPROVED BY	City Council

CITY OF ARCHDALE STORM SYSTEM DETAIL

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1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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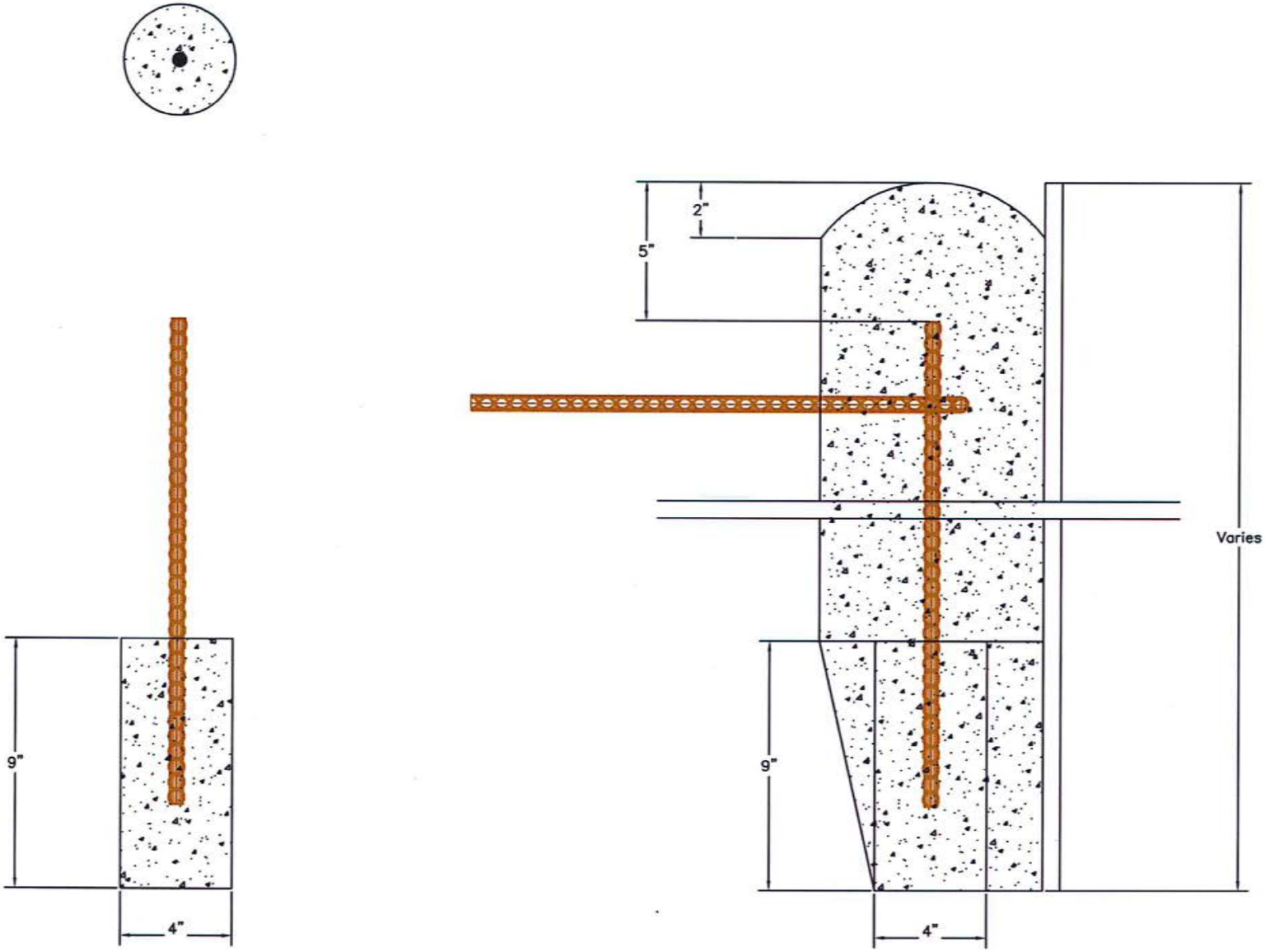

DRIVEWAY HEADWALL

SW-05	SCALE CUSTOM	DRAWN BY D. J. Señeres
	DATE 04/24/2012	APPROVED BY City Council

CITY OF ARCHDALE STORM SYSTEM DETAIL

CITY OF ARCHDALE NORTH CAROLINA

NO.	DATE	REVISION
1	08/02/10	Public Works Comments Incorporated in Revision
2	03/05/12	Additional Public Works & Planning Comments

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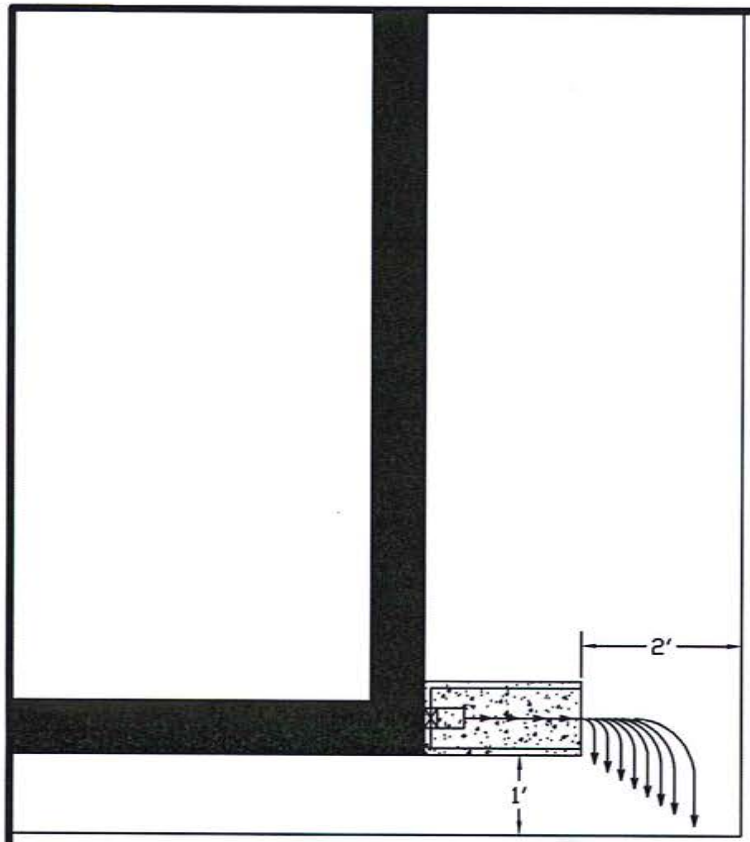

1) CONCENTRATED STORMWATER RUNOFF FROM SOURCES SHALL BE DIRECTED THROUGH A BUFFER AREA ALLOWING FOR DIFFUSED SURFACE FLOW

2) ALONG SIDE LOT LINE, RELEASE OF CONCENTRATED FLOW SHALL BE PARALLEL TO THE SETBACK LINE AND DIRECTED TOWARDS THE SIDE PROPERTY LINE IN A DIFFUSED MANNER.

3) ALONG FRONT AND REAR LOT LINE, RELEASE OF CONCENTRATED FLOW MAY BE PERPENDICULAR TO THE SETBACK LINE AND DIRECTED TOWARDS THE FRONT AND REAR PROPERTY LINE IN A DIFFUSED MANNER.

4) IN NO CASE WILL DISCHARGE POINTS BE ALLOWED BEYOND THE THE MINIMUM DISTANCES SHOWN IN THE DIAGRAM FROM THE DEFINED SETBACK LINE..

5) CONCENTRATED FLOW MAY BE DIRECTED TO A STORMWATER SYSTEM WITH PRIOR APPROVAL AND PERMIT ISSUED BY THE CITY OF ARCHDALE

6) ALL VIOLATIONS SHALL BE ENFORCED UNDER THE AUTHORITY OF THE ACE INTEGRATED STORMWATER MANAGEMENT PROGRAM, ILLICIT DISCHARGES

CONCENTRATED FLOW - FLOW OF WATER THROUGH A PIPE, OR SIMILAR DEVICE, WHERE DIRECTION OF DISCHARGE IS CONFINED

DIFFUSED FLOW - FLOW OF WATER ABOVE GROUND OVER DEVICES ALLOWING WATER TO DISPERSE OVER A LARGER AREA, I.E. GRASS OR VEGETATION

IN THE EVENT DIMENSIONS FROM SETBACK LINE ARE GREATER THAN 25 FEET FROM DISCHARGE, PERPENDICULAR AND PARALLEL FLOW IS ALLOWED

IN THE EVENT, BUILDING STRUCTURES ARE ON THE SET BACK LINE, EVALUATION WILL BE MADE BY STORMWATER PROGRAM MANAGER ON CASE BY CASE BASIS

DIFFUSED FLOW

SW-06

SCALE	CUSTOM	DRAWN BY	D. J. Señeres
DATE	04/24/2012	APRROVED BY	City Council

CITY OF ARCHDALE STORM SYSTEM DETAIL

NO.	DATE	REVISION
1	12/14/10	Field Notes for Design
2	03/05/12	Additional Public Works & Planning Comments

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