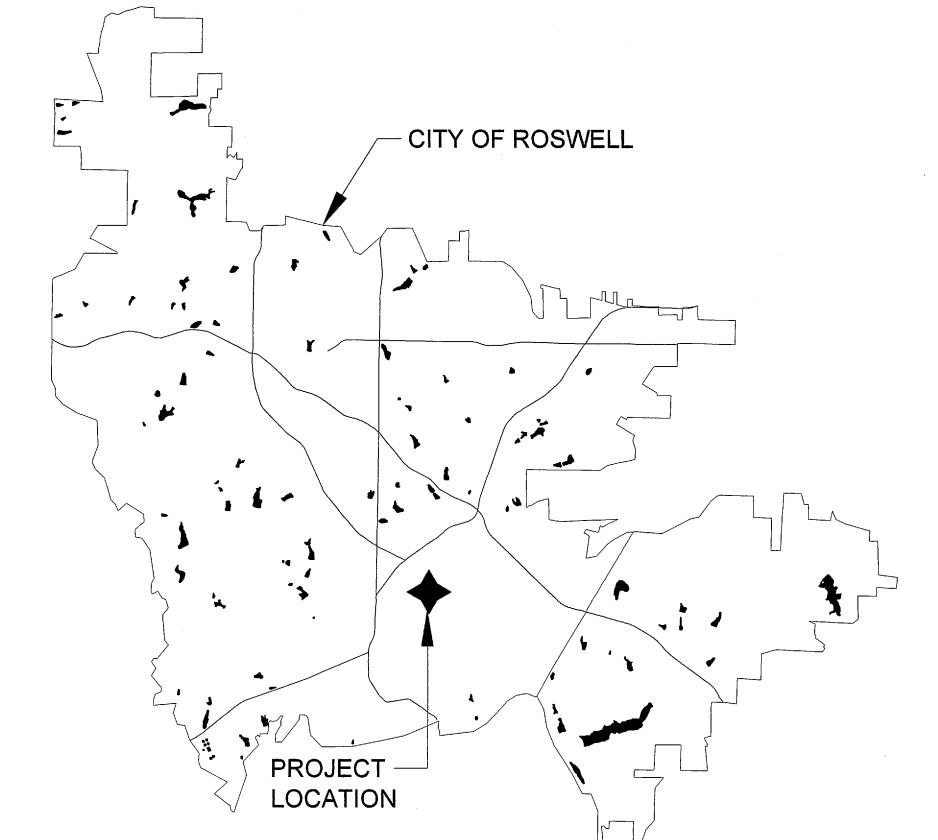
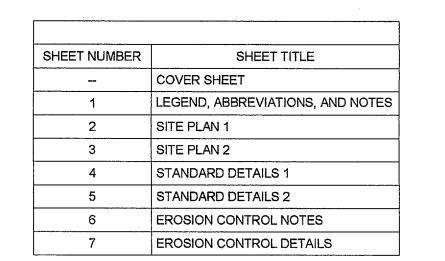
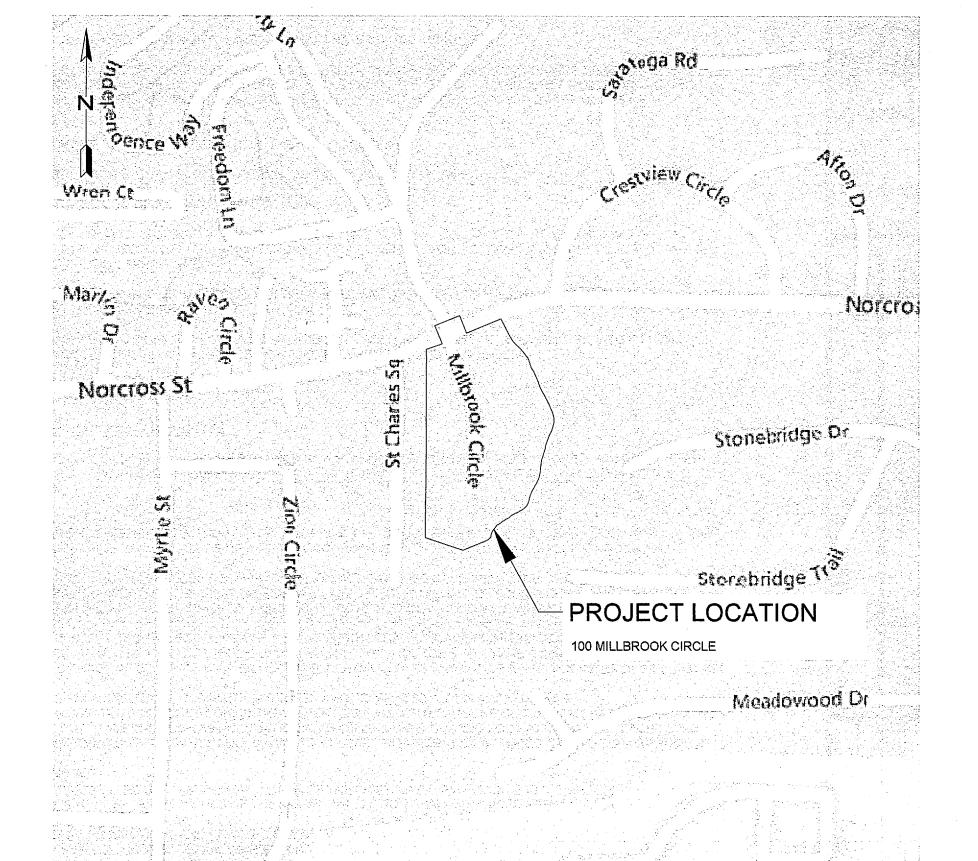
CONSTRUCTION PLANS FOR: CITY OF ROSWELL, GEORGIA











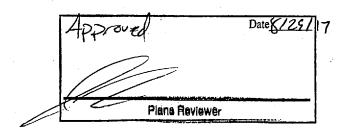
PROJECT: PROJECT VICINITY MAP

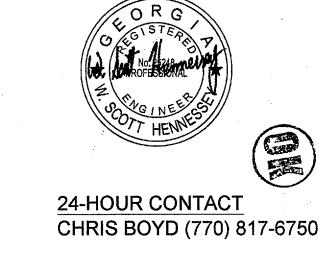
PROJECT LOCATION MAP MILLBROOK CIRCLE WATER MAIN REPLACEMENT

CONSULTING ENGINEER:

ENGINEERING STRATEGIES, INC.

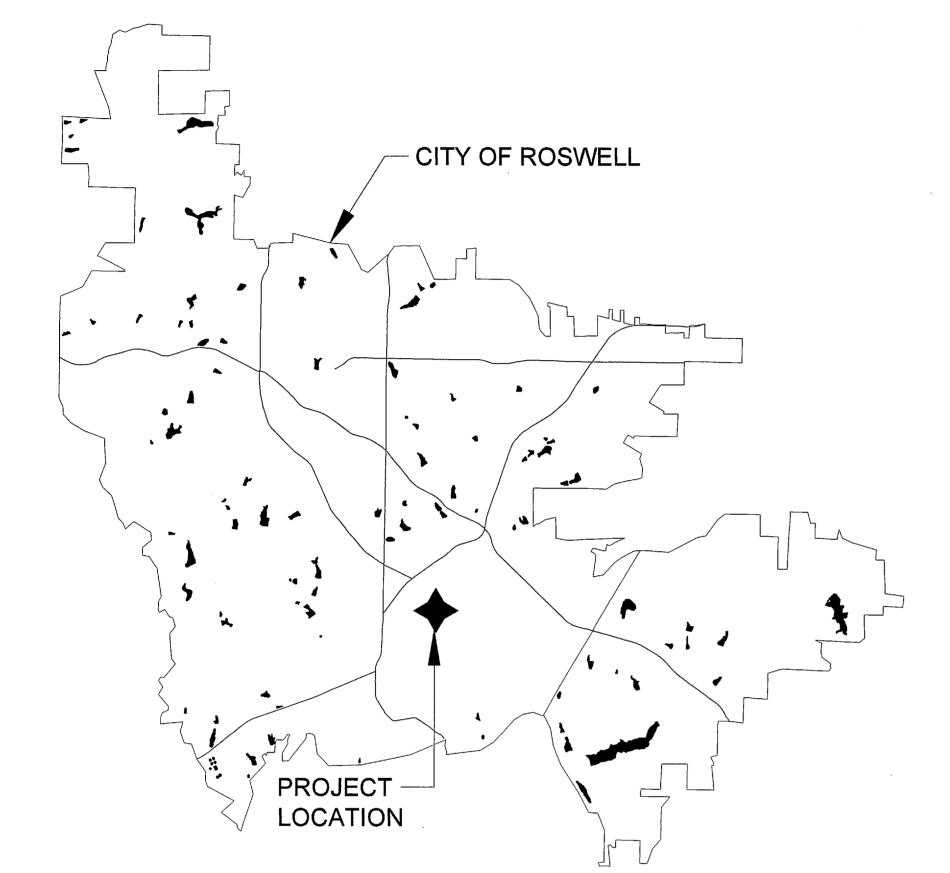
Phone: (770) 429-0001 AUGUST 2017





CONSTRUCTION PLANS FOR: CITY OF ROSWELL, GEORGIA





SHEET NUMBER	SHEET TITLE
	COVER SHEET
1	LEGEND, ABBREVIATIONS, AND NOTES
2	SITE PLAN 1
3	SITE PLAN 2
4	STANDARD DETAILS 1
5	STANDARD DETAILS 2
6	EROSION CONTROL NOTES
7	EROSION CONTROL DETAILS



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Norcross St Stonebridge Dr.

Stonebridge Tr.

PROJECT LOCATION
100 MILLBROOK CIRCLE

Meadowrood Dr.

PROJECT VICINITY MAP PROJECT:

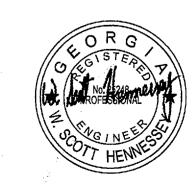
MILLBROOK CIRCLE WATER MAIN

REPLACEMENT

CONSULTING ENGINEER:

ENGINEERING STRATEGIES, INC.

Phone: (770) 429-0001 AUGUST 2017



<u>24-HOUR CONTACT</u> CHRIS BOYD (770) 817-6750 JOI 103534

ENGINEERING ENGINEERING



- SQUARE YARDS OF 40 LB. STONE SHALL BE PLACED AT ALL HEADWALLS OR FLUMES.
- NO ADDITIONAL DRAINAGE AREAS SHALL BE DIVERTED ONTO CITY RIGHT-OF-WAY.
- 7. ALL CORRUGATED METAL STORM DRAIN PIPE SHALL BE FULLY BITUMINOUS-COATED GALVANIZED STEEL OR ALUMINIZED TYPE II WITH
- 8. THESE CONSTRUCTION DRAWING APPROVALS DO NOT ALLOW ANY WORK ON CITY RIGHT-OF-WAY IN CONNECTION WITH UTILITY LINES (SANITARY SEWER, WATER, POWER, TELEPHONE, GAS, ETC.). CITY OF ROSWELL DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY ENCROACHMENT PERMIT IS REQUIRED FOR ANY WORK PERFORMED WITHIN THE CITY RIGHT-OF-WAY. CONTACT CITY OF ROSWELL DOT, (770) 641-3773, FOR ADDITIONAL INFORMATION.
- 9. THESE CONSTRUCTION DRAWINGS ARE APPROVED WITH THE UNDERSTANDING THAT ALL EASEMENTS AND RIGHT-OF-WAY ARE GRANTED TO THE CITY OF ROSWELL ALONG ALL ROAD FRONTAGES FOR THE PURPOSE OF SLOPING CUTS AND FILLS AS FOLLOWS:
- 0' TO 5' NOT LESS THAN 3 TO 1 SLOPE 5' OR MORE - NOT LESS THAN 2 TO 1 SLOPE

RE-ROLLED ENDS AND BANDS.

RJ

RW

RPM

SCH

SS

STA

STD

STL

TEMP

TOW

TP

TYP

VCP

VTR

POWER POLE WITHOUT GUY WIRE

TELEPHONE POLE WITH GUY WIRE

TELEPHONE WITHOUT GUY WIRE

SANITARY SEWER MANHOLE

SANITARY SEWER CLEANOUT

STORM SEWER CATCH BASIN

STORM SEWER DROP INLET

UTILITY BOX - TELEPHONE

UTILITY BOX - CABLE TELEVISION

UTILITY MANHOLE - ELECTRICAL

UTILITY MANHOLE - TELEPHONE

RESTRAINED JOINT

STAINLESS STEEL

REVOLUTIONS PER MINUTE

RIGHT-OF-WAY

SEWER

SCHEDULE

STATION

STANDARD

STORMWATER

TOP AND BOTTOM

TELEPHONE POLE

VITRIFIED CLAY PIPE

VENT THROUGH ROOF

WATER METER OR WATER MAIN

TELEPHONE

TEMPORARY

TOP OF WALL

VALVE BOX

WATER

WITHOUT

YARD HYDRANT

WITH

- 10. CONTRACTOR SHALL RE-GRASS TO STATE HIGHWAY DEPARTMENT SPECIFICATIONS ALL CITY RIGHT-OF-WAY AREAS THAT ARE DAMAGED OR DISTURBED DURING WORK AUTHORIZED HEREIN.
- 11. ALL HANDICAP RAMPS SHALL BE A MINIMUM OF 3 FEET IN WIDTH AND AT A MAXIMUM 12:1 SLOPE.
- 12. ANY NEW SECTION OF ROADWAY TO BE DEDICATED TO THE CITY MUST BE TESTED FOR THICKNESS OF CRUSHER RUN BASE AND ASPHALT; AND THE ASPHALT MUST BE CORED TO DETERMINE THE PERCENTAGE OF COMPACTION. CORES SHALL BE TAKEN NO LESS THAN THREE HUNDRED FEET (300') APART AT STAGGERED INTERVALS.
- 13. THE ISSUANCE OF THESE CONSTRUCTION DRAWINGS DOES NOT ASSURE SEWER AVAILABILITY. SEWER SERVICE IS PROVIDED BY FULTON COUNTY, NOT THE CITY OF ROSWELL.
- 14. FIVE (5) FOOT WIDE SIDEWALK IS REQUIRED ALONG ALL PUBLIC STREETS, AND IN SOME CASES 10' WIDE, WITH 5 FOOT GRASS STRIP. ALL SIDEWALKS WITHIN HISTORIC DISTRICT SHALL BE BRICK.
- 15. A HORIZONTAL SEPARATION OF AT LEAST 10 FEET MUST BE MAINTAINED BETWEEN THE WATER MAIN AND THE EXISTING OR PROPOSED SEWER. WHEN WATER MAINS CROSS SEWERS, A MINIMUM VERTICAL SEPARATION OF 18 INCHES MUST BE PROVIDED BETWEEN THE TWO (2) PIPES (MEASURED EDGE TO EDGE). AT CROSSINGS, ONE FULL PIPE LENGTH OF WATER PIPE MUST BE LOCATED SO THAT BOTH JOINTS ARE AS FAR FROM THE SEWER AS POSSIBLE.

- 16. ANY PIPE, SOLDER OR FLUX USED IN THE INSTALLATION OR REPAIR OF THE WATER LINES MUST BE LEAD-FREE.

- 21. BUILDER SHALL BE RESPONSIBLE FOR INSTALLATION OF SIDEWALKS AND THE C.O. WILL NOT BE ISSUED UNTIL SIDEWALK IS INSPECTED
- 22. COMPACTION REPORTS SHALL BE FURNISHED TO THE CITY OF ROSWELL ON ALL UTILITY EXCAVATIONS WITHIN ROADWAY
- 23. CONTRACTOR MUST NOTIFY LAND DEVELOPMENT INSPECTOR. (770) 641-3707. TWENTY-FOUR (24) HOURS PRIOR TO BEGINNING CONSTRUCTION. IN ADDITION, ALL BACKFLOW PREVENTION DEVICES, VAULTS, BLOCKING AND HYDROSEED EQUIPMENT MUST BE
- 25. ALL EXTERIOR LIGHTING SHALL BE PLACED SO AS NOT TO DIRECTLY ILLUMINATE ADJACENT PROPERTY
- 26. THE OWNER/DEVELOPER IS RESPONSIBLE TO COORDINATE WITH THE US ARMY CORP OF ENGINEERS CONCERNING PERMITS OR REQUIREMENTS WHEN WETLANDS ARE PROPOSED TO BE DISTURBED ON THE PROPERTY. FAILURE TO REQUEST A DETERMINATION OF PERMIT REQUIREMENT BEFORE DISTURBING ANY WETLANDS COULD RESULT IN PENALTIES BEING IMPOSED BY THE CORPS OF
- 28. BURNING OF DEBRIS OR CONSTRUCTION MATERIALS IS NOT PERMITTED WITHIN THE CITY OF ROSWELL
- 30. A CITY OF ROSWELL TRENCHING PERMIT IS REQUIRED PRIOR TO ANY TRENCHING ACTIVITY. CONTACT THE CITY OF ROSWELI DEPARTMENT OF TRANSPORTATION INSPECTOR AT (770) 641-3773 TO OBTAIN A PERMIT (AS PER SECTION 2.2.3, STREET CUTS, OF THE CITY
- 31. ALL ROAD STRIPING WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PRE-MARKED AND APPROVED BY THE CITY OF ROSWELL
- 32. AS-BUILT PLANS OF ALL STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED TO THE CITY OF ROSWELL PRIOR TO ISSUANCE OF

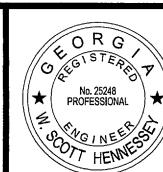
1. ALL PAVEMENT CUTS WIDER THAN FOUR (4) FEET SHALL BE REPAIRED BY A STANDARD CITY OF ROSWELL PAVEMENT SECTION, AS PER SECTION 2.2.1.C, PAVING, TABLE 2.11-PAVEMENT THICKNESS, OF THE CITY OF ROSWELL STANDARD CONSTRUCTION SPECIFICATIONS.

- 1) OPEN STREET CUTS ARE NOT PERMITTED WITHOUT APPROVAL FROM THE CITY OF ROSWELL DEPARTMENT OF TRANSPORTATION. 2) ALL PAVEMENT INCLUDING SIDEWALKS SHALL BE REPAVED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS AND
- 3) PAVED SIDEWALKS CUT OR BROKEN SHALL BE REPAVED WITH CONCRETE UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER. THE WIDTH SHALL EQUAL THE WIDTH OF THE EXISTING SIDEWALK AND THE DEPTH SHALL BE FOUR INCHES. THE CONCRETE SHALL BE CLASS A AND SHALL BE PLACED, FINISHED, CURED AND PROTECTED IN ACCORDANCE WITH GEORGIA STATE HIGHWAY
- 4) BEFORE REMOVING PAVEMENT, IT SHALL BE ACCURATELY MARKED WITH CHALKLINE. PAVEMENT SHALL BE NEATLY CUT WITH THE PAVEMENT CUTTER ALONG THE MARKED LINES. SURFACING AND BASE COURSE SHALL HAVE A MINIMUM BEARING ON UNDISTURBED EARTH OUTSIDE OF EXCAVATION LINES FOR PIPELINES, MANHOLES AND OTHER APPURTENANCES OF AT LEAST SIX
- NO PAVEMENT SHALL BE REMOVED UNTIL COMPLETELY BROKEN AND SEPARATED ALONG MARKED LINES. 6) ALL BACKFILLING OF EXCAVATED PORTIONS REQUIRING PAVEMENT REPLACEMENT SHALL BE MECHANICALLY TAMPED IN SIX-INCH LAYERS USING HEAVY-DUTY TAMPERS SUCH AS PNEUMATIC JACKHAMMERS WITH TAMPING FOOT ATTACHMENT. EACH LAYER SHALL BE THOROUGHLY TAMPED TO A DENSITY EQUIVALENT TO AT LEAST 95 PERCENT OF MODIFIED AASHTO T-99-49 PROCTOF
- 1) THE TRENCH SHALL BE BACKFILLED UP TO WITHIN 9%" INCHES OF THE EXISTING PAVEMENT UNLESS OTHERWISE DIRECTED BY THE CITY OF ROSWELL ENGINEER. EIGHT INCHES OF THE REMAINING SECTION SHALL BE PLACED WITH CLASS A, HIGH EARLY
- ALL IRREGULAR EDGES OF PROJECTIONS AND CRACKED SECTIONS SHALL BE REMOVED BEFORE PLACING CONCRETE 3) ALL CONCRETE WORK SHALL BE PROTECTED AND CURED IN ACCORDANCE WITH GEORGIA STATE HIGHWAY GDOT

- 5) OPEN STREET CUTS IN EXCESS OF 150 FEET IN LENGTH SHALL REQUIRE THE ENTIRE STREET WIDTH TO BE OVERLAID.
- 3. TRAFFIC SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION BY PERMITTING AT LEAST ONE LANE OF TRAFFIC TO MOVE THROUGH THE CONSTRUCTION SITE. ALL FLAGMEN, WARNING SIGNS, BARRICADES AND LIGHTS NECESSARY TO CONTROL THE TRAFFIC AND PROTECT THE PUBLIC SHALL BE PROVIDED BY THE CONTRACTOR WITHOUT COST TO THE OWNER. TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS". 2009 EDITION OR LATER. IF IT BECOMES NECESSARY TO CLOSE A PORTION OF THE ROAD, THE CONTRACTOR SHALL PROVIDE A TRAFFIC ROUTING (DETOUR) PLAN AND SHALL HAVE IT APPROVED BY THE CITY OF ROSWELL; OBTAIN A ROAD CLOSURE PERMIT FROM THE CITY OF ROSWELL; ISSUE A PRESS RELEASE WITH ROAD CLOSURE DATE(S); AND ACCOMMODATE LOCAL RESIDENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR
- 4. CONTRACTOR SHALL MAINTAIN ACCESS FOR EMERGENCY VEHICLES AND SCHOOL BUS SERVICE AT ALL TIMES DURING CONSTRUCTION.

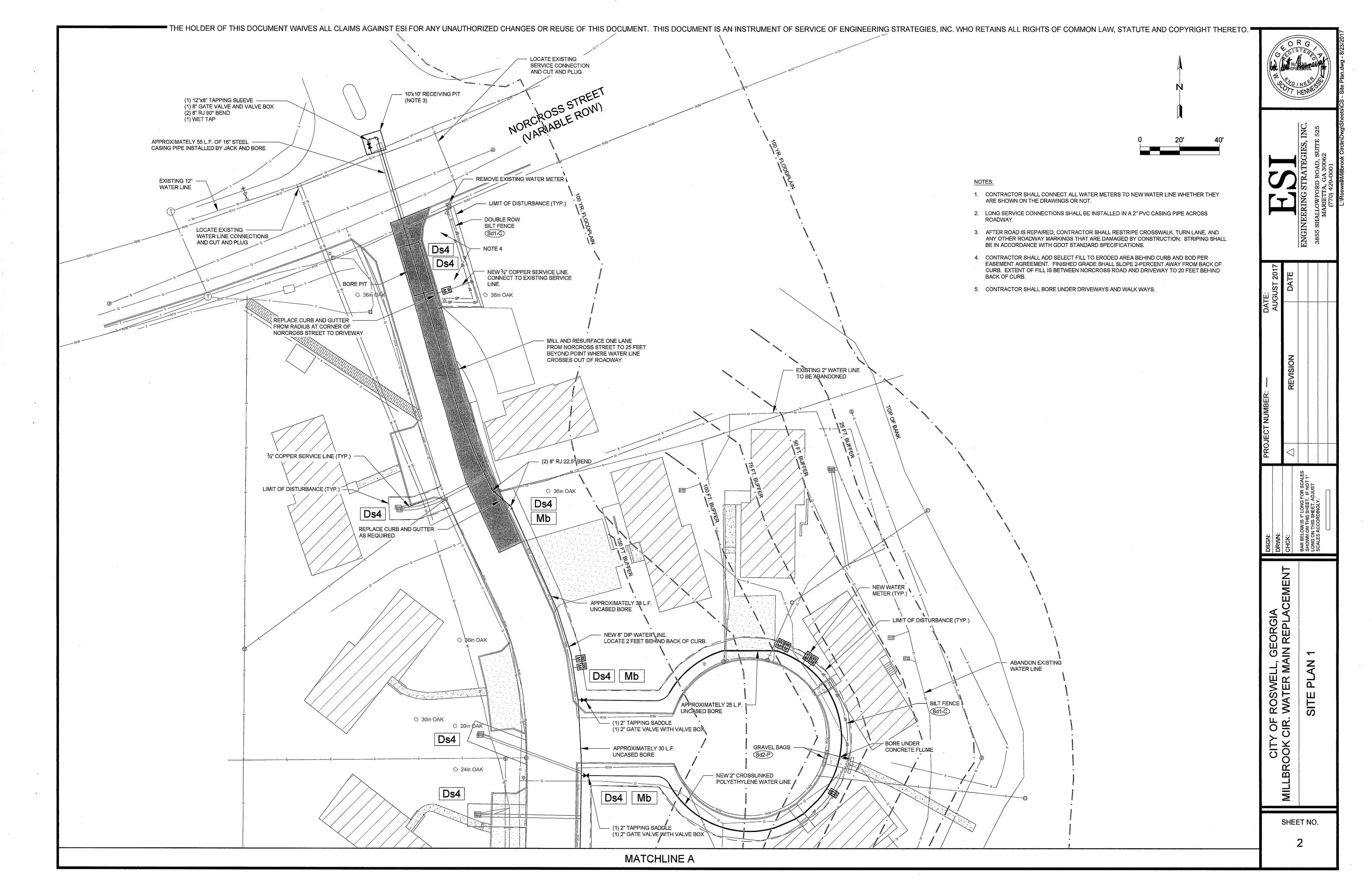
TREE PRESERVATION

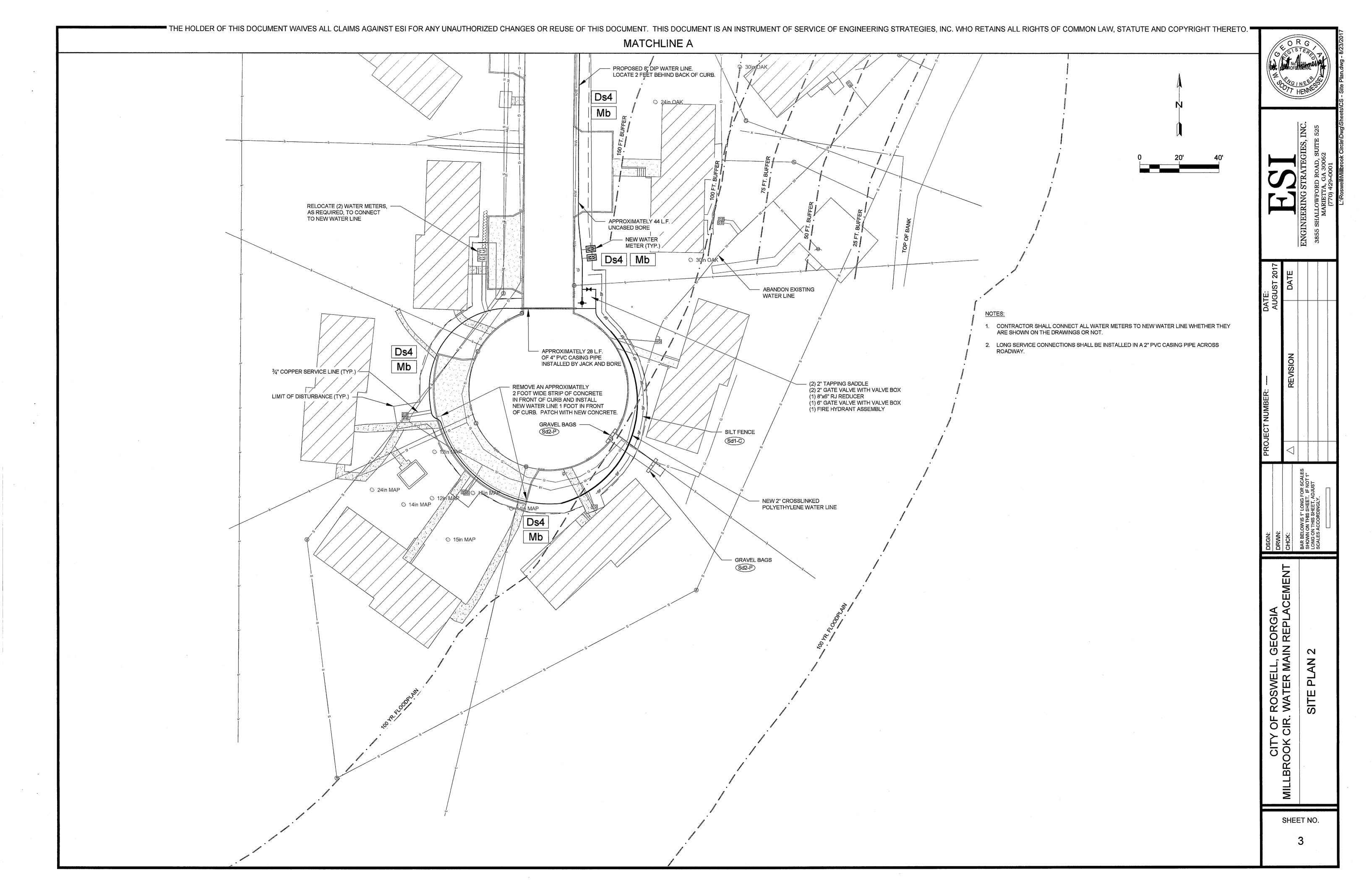
- 1. UNLESS NOTED TO BE REMOVED, CONTRACTOR SHALL PROTECT ALL SPECIMEN TREES (24" AND LARGER HARDWOODS AND 30" AND LARGER SOFTWOODS.) ALL SPECIMEN TREES IDENTIFIED TO BE REMOVED AND ALL NON-SPECIMEN TREES THAT INTERFERE WITH THE INSTALLATION OF THE WATER LINE SHALL BE REMOVED BY THE CONTRACTOR. COST OF REMOVAL SHALL BE INCLUDED IN THE UNIT COST
- WHEN DIGGING NEAR TREES, CONTRACTOR SHALL PRUNE ALL EXPOSED ROOTS 1-INCH IN DIAMETER OR LARGER ON THE SIDE OF THE TRENCH ADJACENT TO THE TREES. PRUNING SHALL CONSIST OF MAKING A CLEAN CUT FLUSH WITH THE SIDE OF THE TRENCH TO PROMOTE NEW ROOT GROWTH.
- 3. CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION ON SITE EXCEPT AS NOTED ON THE PLANS OR APPROVED BY THE ENGINEER
- 4. PROTECT THE TRUNKS OF ANY TREES BEING PRESERVED WITH STRAPPED ON PLANKING OR SIMILAR PROTECTIVE DEVICES.
- TREE PROTECTION DEVICES MUST BE INSTALLED AND INSPECTED PRIOR TO ANY CLEARING, GRUBBING, OR GRADING.
- 6. PRUNING OF TREE LIMBS TO PROVIDE CLEARANCE FOR EQUIPMENT AND MATERIALS SHALL BE DONE IN ACCORDANCE WITH STANDARD ARBORICULTURAL PRACTICE (ANSI A300).
- ROOT SYSTEMS OF SIGNIFICANT TREES, AS INDICATED ON THE PLANS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION SHALL BE FREE-BORED. COST OF FREE-BORING SHALL BE INCLUDED IN THE UNIT COST OF THE PIPE.

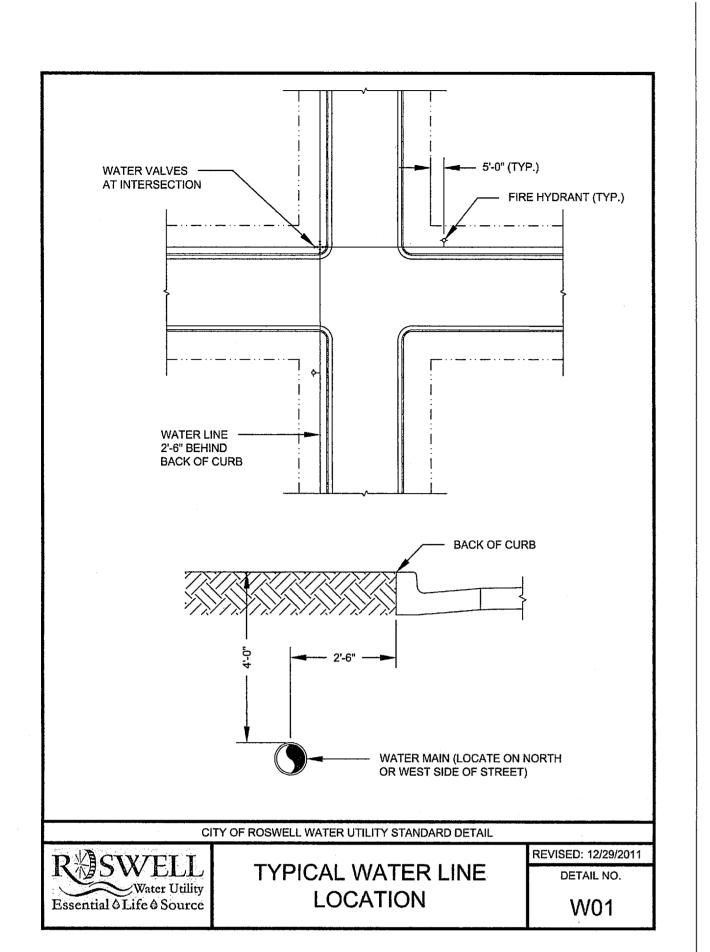


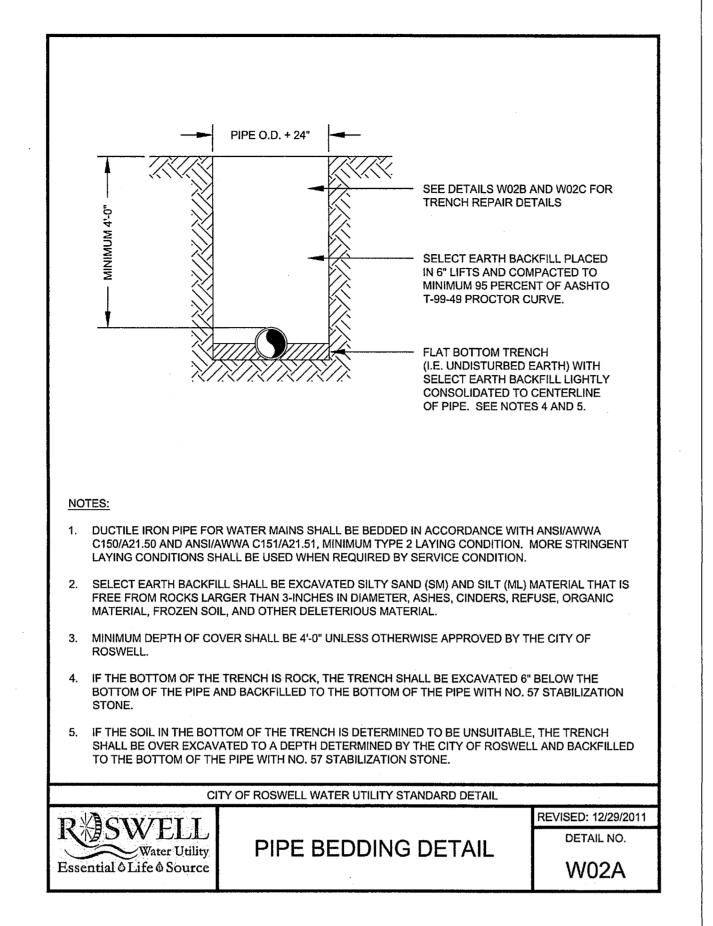
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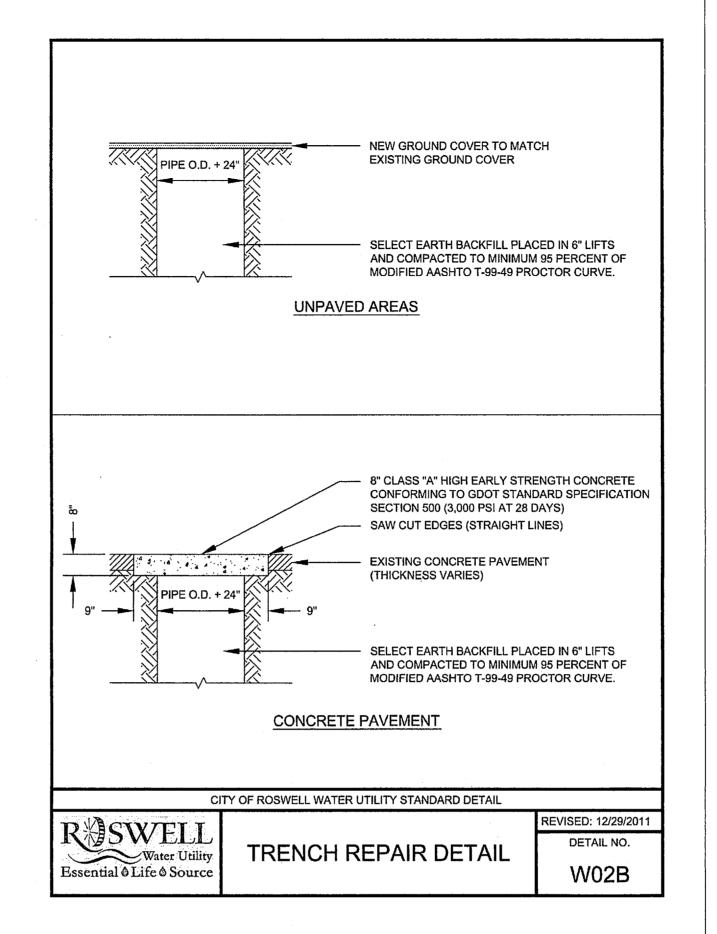
SHEET NO.

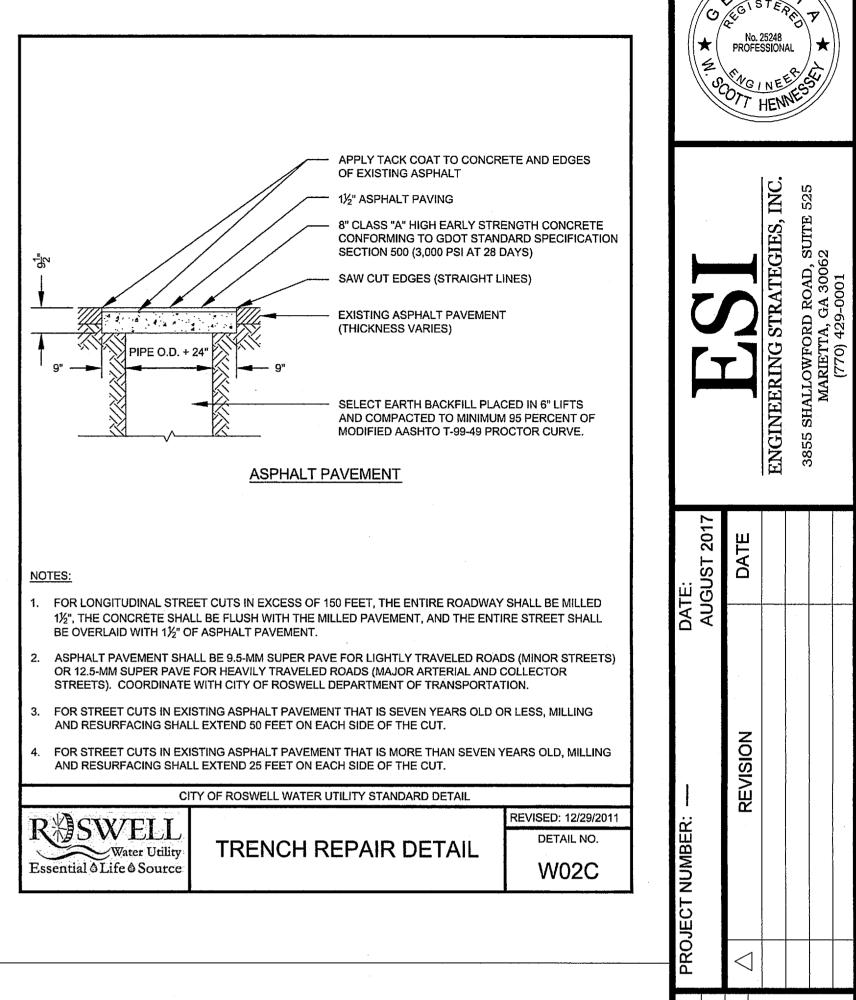


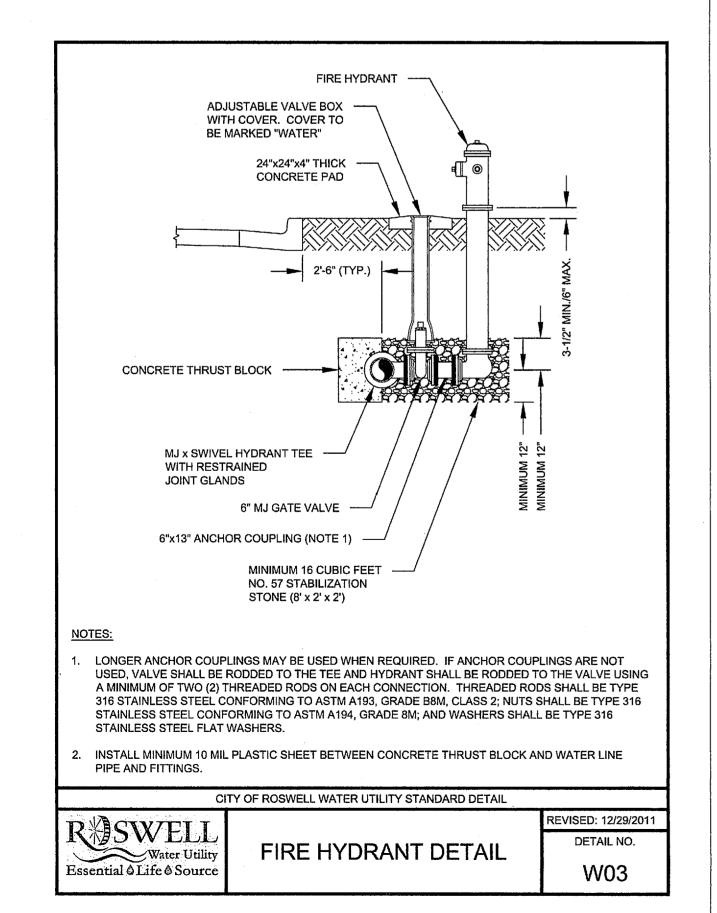


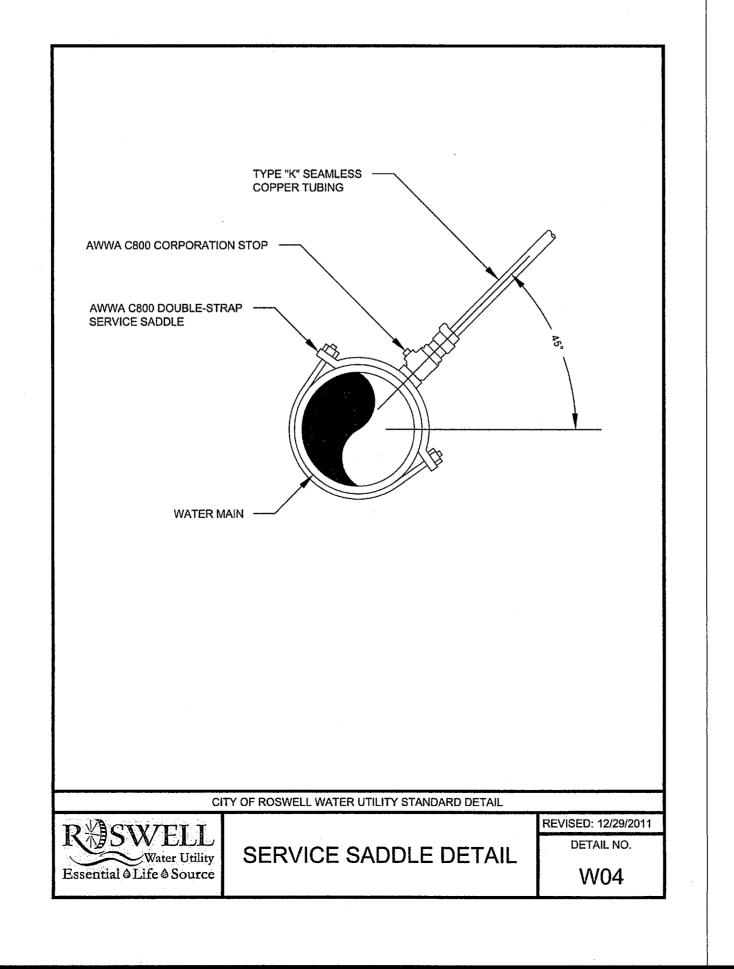


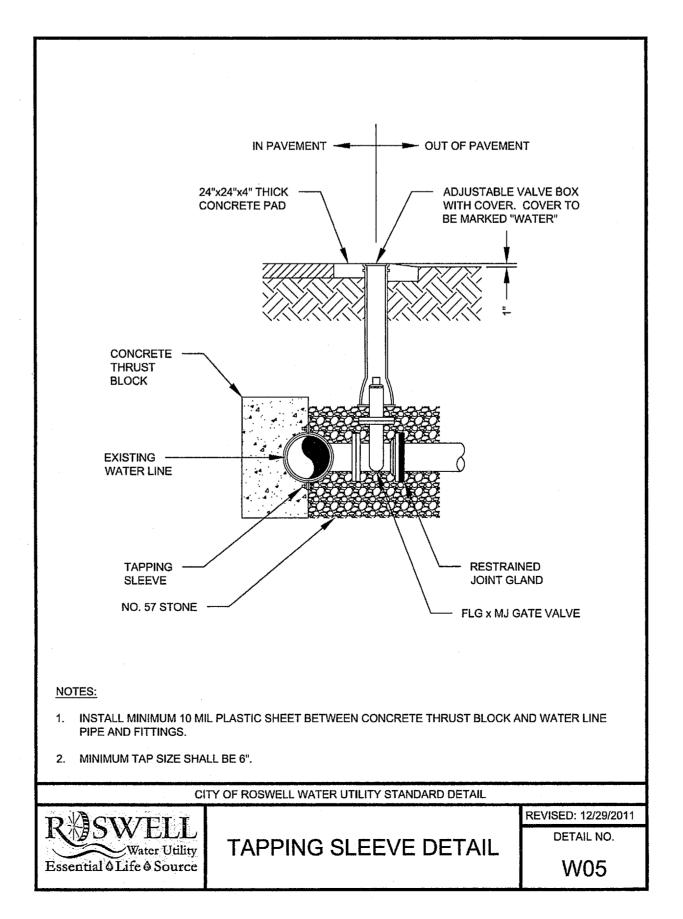


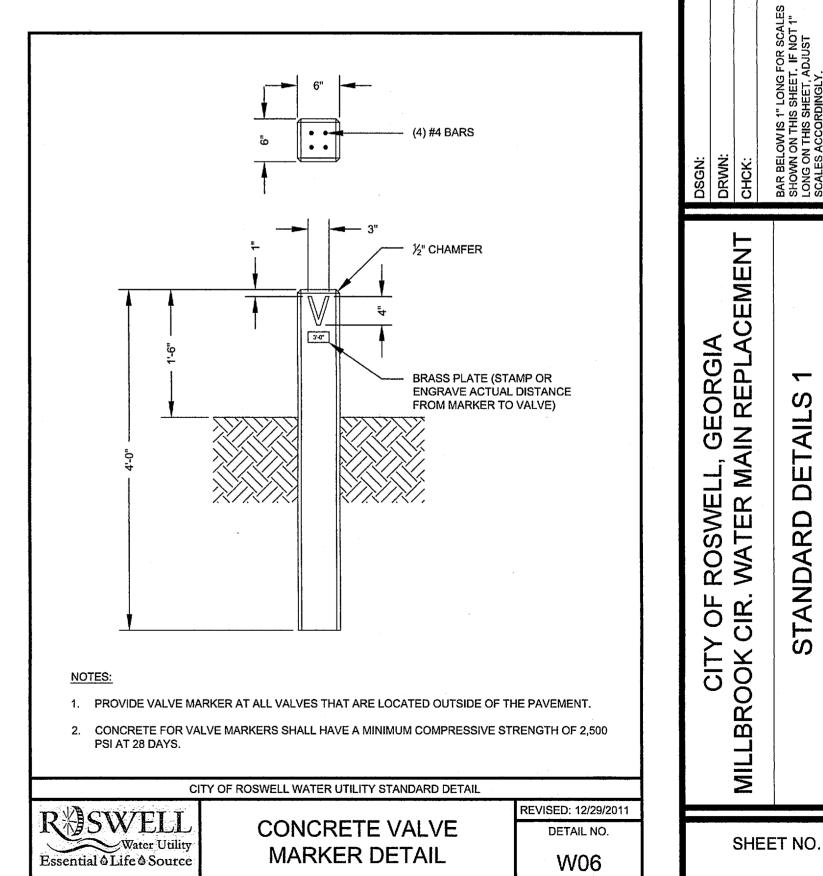






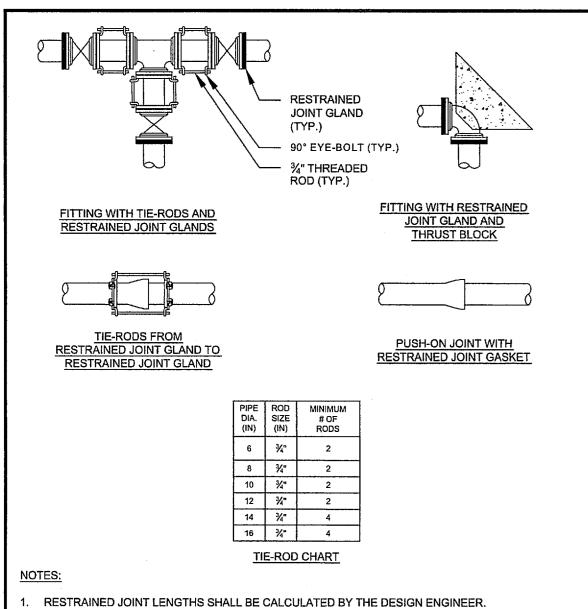






Water Utility

Essential & Life & Source



2. ALL FITTINGS SHALL HAVE TWO FORMS OF RESTRAINT (I.E. THRUST BLOCK + RESTRAINED JOINT

THREADED RODS AND 90° EYE BOLTS SHALL BE TYPE 316 HARDENED STAINLESS STEEL

RUSWELL Water Utility Essential & Life & Source

GLANDS, RESTRAINED JOINT GLANDS + THREADED RODS, THRUST BLOCK + THREADED RODS).

3. FITTINGS LOCATED WITHIN 5 FEET OF EACH OTHER SHALL BE TIED TOGETHER WITH THREADED ROD.

CONFORMING TO ASTM A193, GRADE B8M, CLASS 2; NUTS SHALL BE TYPE 316 STAINLESS STEEL

CONFORMING TO ASTM A194, GRADE 8M; AND WASHERS SHALL BE 316 STAINLESS STEEL FLAT

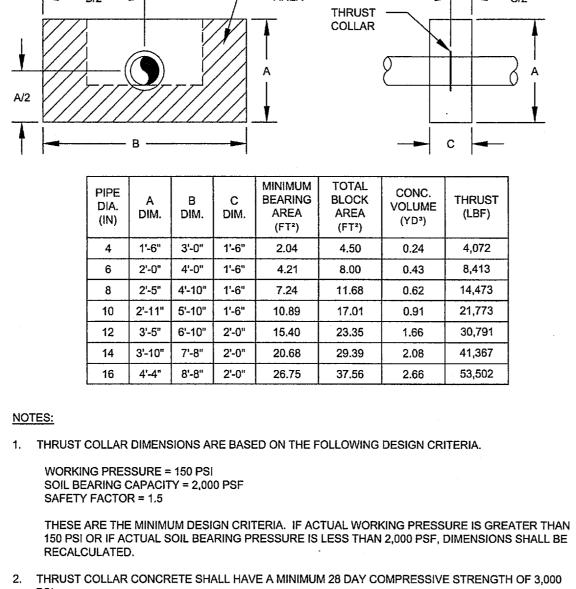
CITY OF ROSWELL WATER UTILITY STANDARD DETAIL

VALVE AND FITTING

THRUST RESTRAINT

REVISED: 12/29/2011

DETAIL NO.



	G AREA SHALL BEAR AGAINST UNDISTURBED SOIL. COLLAR (NON-BEARING AREAS) SHALL BE COMPACT PROCTOR CURVE.	
CITY	OF ROSWELL WATER UTILITY STANDARD DETAIL	
DACTALLI		REVISED: 12/29/2011
IMDWELL	CONCRETE THRUST	DETAIL NO.

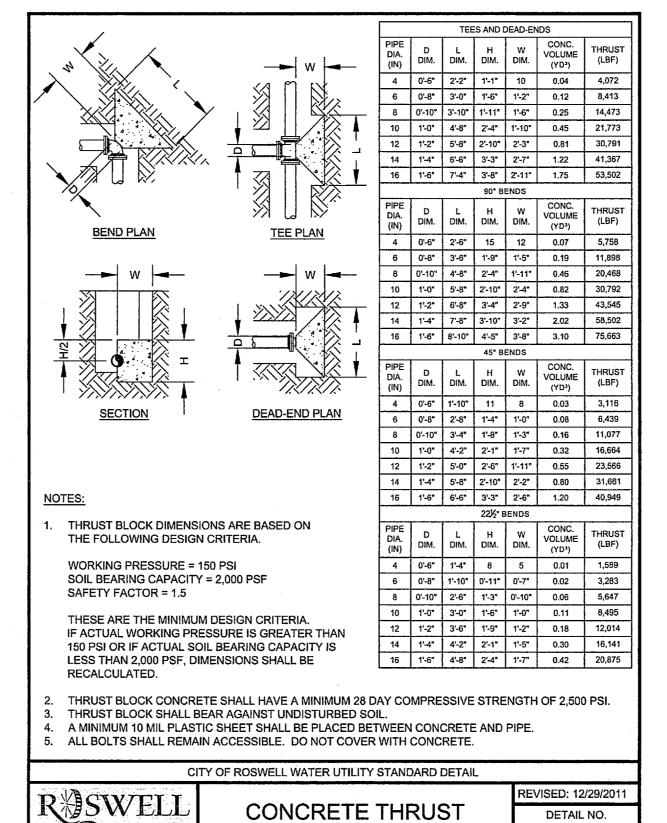
COLLAR DETAIL

THRUST COLLAR SHALL BE WELDED ON BY DUCTILE IRON PIPE MANUFACTURER. ALTERNATIVELY,

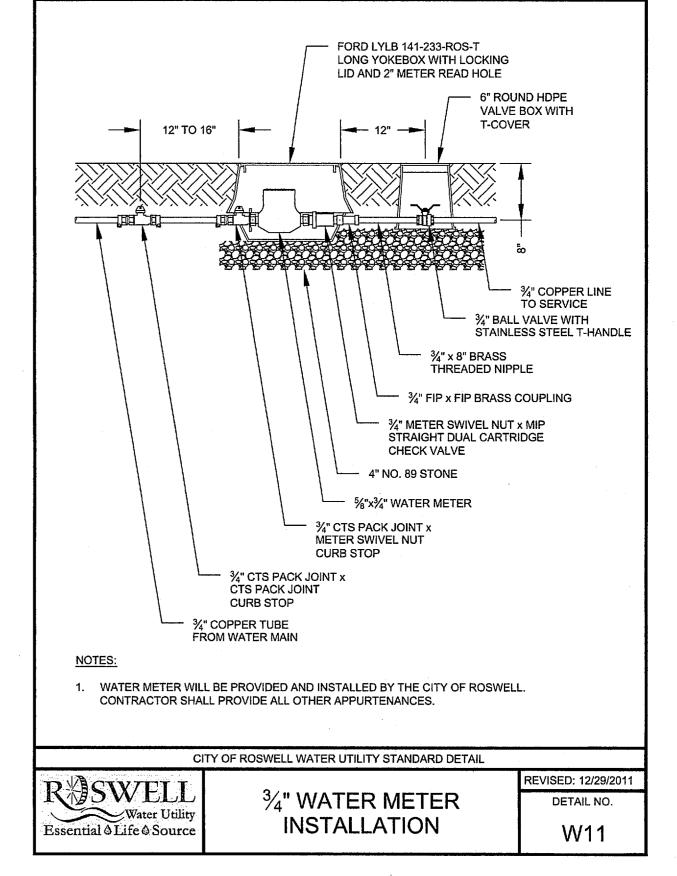
A RESTRAINED JOINT GLAND MAY BE USED.

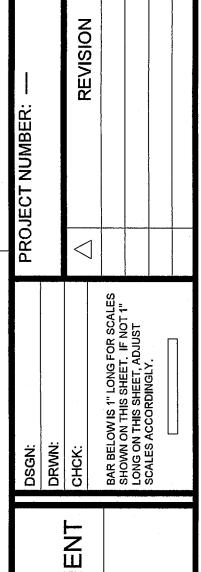
Water Utility

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BLOCK DETAIL





CITY OF ROSWELL, GEORGIA

MILLBROOK CIR. WATER MAIN REPLACEMENT

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STANDARD DETAILS 2

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DIVERSION

TEMPORARY DOWNDRAIN STRUCTURE

DOWNDRAIN STRUCTURE

CITY OF ROSWELL STANDARD EROSION AND SEDIMENT CONTROL NOTES

- 1. THE CONSTRUCTION PAD SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC
- 2. SILT FENCES AND HAY BALE BARRIERS SHALL BE CLEANED OR REPLACED AND MAINTAINED IN FUNCTIONAL CONDITION UNTIL PERMANENT EROSION CONTROL MEASURES ARE ESTABLISHED.
- 3. SILT FENCE FABRIC SHALL BE COMPRISED OF GEORGIA DEPARTMENT OF TRANSPORTATION QUALIFIED PRODUCTS SETION 171, TYPE "S," FOR SILT FENCE FABRIC. TYPE "NS" SILT FENCE FABRIC AND CONSTRUCTION MAY BE ALLOWED WITH PRIOR WRITTEN APPROVAL FROM THE LAND DEVELOPMENT INSPECTOR.
- 4. ALL GRASSING SHALL BE IN ACCORDANCE WITH CHAPTER 6, SECTION III "VEGETATIVE PRACTICES" OF THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- 5. ALL OTHER WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS OF THIS SAME MANUAL.
- 6. THE CONTRACTOR SHALL FURNISH THE CITY OF ROSWELL ENGINEERING DIVISION WITH A SCHEDULE OF ANTICIPATED STARTING AND COMPLETION DATES FOR EACH SEQUENCE OF LAND DISTURBING ACTIVITY LISTED IN ITEMS ONE THROUGH FIVE ABOVE.
- 7. EROSION CONTROL DEVICES WILL BE IN PLACE BEFORE SITE DISTURBANCE AND WILL BE PERIODICALLY INSPECTED AND REPAIRED OR RESTORED AS NEEDED TO FUNCTION PROPERLY UNTIL PERMANENT MEASURES ARE ESTABLISHED AND PROJECT IS COMPLETE, I.E. CONSTRUCTION EXITS SHALL BE REDRESSED OR CLEANED AS SILT REDUCES THEIR EFFECTIVENESS.
- 8. ANY ADDITIONAL CONSTRUCTION OTHER THAN SHOWN ON THIS PLAN WILL REQUIRE ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES AND PRIOR APPROVAL FROM THE CITY OF ROSWELL ENGINEERING DIVISION.
- 9. TEMPORARY VEGETATION AND/OR HEAVY MULCH WILL BE USED TO STABILIZE AREAS. IN NO CASE SHALL A SITE BE LEFT BARE FOR MORE THAN SEVEN (7) DAYS.
- 10. ALL DISTURBED AREAS WILL BE PERMANENTLY LANDSCAPED AND GRASSED AS QUICKLY AS POSSIBLE.
- 11. ADDITIONAL MEASURES MAY BE REQUIRED TO CONTROL EROSION AS DETERMINED NECESSARY BY CITY INSPECTORS.
- 12. PERSON RESPONSIBLE FOR EROSION CONTROL MEASURES IS: CHRIS BOYD. EMERGENCY #: (770) 641-3715.
- 13. EROSION CONTROL MATTING AND BLANKETS SHALL BE USED ON ALL SLOPES EXCEEDING 3:1.
- 14. ALL APPLICATIONS OF HYDROSEED WILL BE FOLLOWED BY ½" TO 1" MULCH.
- 15. SITES OVER 5 ACRES MUST PREPARE MULTI-STAGE EROSION CONTROL PLAN.
- 16. NO CLEARING BEYOND THE LIMITS OF DISTURBANCE SHOWN ON THE APPROVED PLANS SHALL BE ALLOWED.
- 17. NO LAND DISTURBING ACTIVITY WITHIN ANY TREE SAVE AREA SHALL BE ALLOWED.
- 18. POLYMERS MUST BE USED ON ALL DISTURBED AREAS INCLUDING PARKING LOTS.
- 19. THE PROPERTY OWNER AND CONTRACTOR ARE EQUALLY RESPONSIBLE FOR ALL EROSION CONTROL ACTIVITIES
- 20. NOTICE IS HEREBY GIVEN THAT ALL EROSION AND SEDIMENT DEVICES AND PRACTICES MUST BE INSTALLED AND MAINTAINED AT ALL TIMES. NO FURTHER NOTICE WILL BE GIVEN. ANY SITE UPON WHICH THE LAND DEVELOPMENT INSPECTOR FINDS ANY DEFICIENCY WILL BE SUBJECT TO AN IMMEDIATE ENFORCEMENT ACTION WITHOUT WARNING.
- 21. EROSION AND SEDIMENT CONTROL DEVICES MUST BE MAINTAINED IN A SATISFACTORY CONDITION 24 HOURS A DAY, 7 DAYS A
- 22. ALL BEST MANAGEMENT PRACTICES SHALL BE JUDGED NOT ON APPEARANCES BUT PERFORMANCES ONLY.
- 23. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN QUALIFIED PROFESSIONAL ADVICE WHEN QUESTIONS ARISE CONCERNING DESIGN AND EFFECTIVENESS OF EROSION CONTROL DEVICES, NOT THE CITY OF ROSWELL
- 24. EROSION CONTROL DEVICES THAT ARE INSTALLED AS DIRECTED BY THE LAND DEVELOPMENT INSPECTOR BUT NOT SHOWN ON THE APPROVED PLAN AND WHICH ALSO SUBSEQUENTLY FAIL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- 25. ALL TEMPORARY AND PERMANENT SEEDING MUST BE PERFORMED AT THE APPROPRIATE SEASON. ADDITIONAL PLANTINGS WILL BE NECESSARY IF A SUFFICIENT STAND OF GRASS FAILS TO GROW.
- 26. THE LAND DEVELOPMENT INSPECTOR WILL DETERMINE ADEQUATE COVER OF NEW PLANTINGS.
- 27. TOPSOIL SHALL BE STOCKPILED AND USED TO DRESS FINAL GRADES.
- 28. NO DISTURBANCE WILL BE ALLOWED WITHIN FLOOD PLAINS OR WETLANDS.
- 29. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE NECESSARY IF DEEMED BY ON-SITE INSPECTION.
- 30. SILT FENCING MUST BE MIRAFI 100x FABRIC, OR EQUIVALENT SUBSTITUTE. MARIFAX 100x SPECIFICATIONS: MINIMUM WIDTH OF 36", MULLEN BURST STRENGTH OF 200 P.S.I., TRAPEZOIDAL TEAR STRENGTH OF 65 LBS., EQUIVALENT OPENING SIZE OF #40 U.S. STANDARD SIEVE AND GRAB STRENGTH OF 120 LBS.
- 31. SILT FENCE SHALL NOT BE PLACED IN STREAM BUFFER OR FLOOD PLAINS.
- 32. WHEN SILT FENCES BECOME 1/3 FULL OF SEDIMENT, THE SEDIMENT MUST BE REMOVED.

THE CONTRACTOR SHALL FURNISH WEEKLY REPORTS TO THE CITY, WHICH INDICATES THE DATE, PERSON RESPONSIBLE, AND NOTATION OF ALL DEFICIENCIES AND CORRECTIONS MADE TO ALL EROSION AND SEDIMENT CONTROL DEVICES.

- 33. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.
- 34. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- 35. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- 36. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND
- 37. ACCORDING TO THE GEORGIA STORMWATER MANAGEMENT MANUAL (BLUE BOOK) TABLE 2.1.4-2. THE ESTIMATED RUNOFF COEFFICIENT FOR SINGLE FAMILY RESIDENTIAL AREAS IS 0.50. BECAUSE THE CONSTRUCTION OF THIS PROJECT WILL BE IN THE RIGHT-OF-WAY AND IN GRASSY AREAS AND ALL GRASSY AREAS DISTURBED BY TRENCHING ACTIVITIES WILL BE RETURNED TO GRASS AFTER CONSTRUCTION, THE FLOW REGIME UNCHANGED. THE ESTIMATED POST CONSTRUCTION RUNOFF COEFFICIENT IS ALSO 0.50.
- 38. THE RECEIVING WATER FOR THIS PROJECT IS HOG WALLOW CREEK.
- 39. PROVIDE BMPs FOR THE REMEDIATION OF ALL PETROLEUM SPILLS AND LEAKS.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. THIS PROJECT IS LOCATED IN LAND LOTS 451 AND 452 IN THE CITY OF ROSWELL, GEORGIA AND CONSISTS OF INSTALLING APPROXIMATELY 525 LINEAR FEET OF 8-INCH DUCTILE IRON PIPE WATER LINE AND APPROXIMATELY 900 LINEAR FEET OF 2-INCH POLYETHYLENE WATER LINE IN AND AROUND MILLBROOK CIRCLE. THE NEW WATER LINE WILL REPLACE AN EXISTING 2-INCH GALVANIZED STEEL WATER LINE. THE NEW WATER LINE WILL TIE INTO AN EXISTING 12-INCH DIP WATER LINE AT THE INTERSECTION OF MILLBROOK CIRCLE AND NORCROSS STREET.
- THE TOTAL PROJECT AREA IS APPROXIMATELY 36,250 SQUARE FEET (0.83 ACRES). THE TOTAL DISTURBED AREA FOR THIS PROJECT IS APPROXIMATELY 24,000 SQUARE FEET (0.55 ACRES).
- 3. PER FEMA FIRM PANEL 13121C0063G DATED SEPTEMBER 18, 2013, PORTIONS OF THIS PROJECT ARE LOCATED WITHIN THE 100-YEAR FLOOD ELEVATION.
- 4. THERE ARE NO WETLANDS LOCATED WITHIN THE PROJECT LIMITS.
- 5. THE NAME, ADDRESS, AND PHONE NUMBER OF THE PRIMARY PERMITEE IS:

CITY OF ROSWELL (770) 817-6750

6. THE 24-HOUR CONTACT FOR EROSION AND SEDIMENT CONTROL IS:

CHRIS BOYD CITY OF ROSWELL (770) 817-6750

TREE PRESERVATION/PROTECTION NOTES

- 1. ALL LIMITS OF CONSTRUCTION AS INDICATED ON THE DRAWINGS SHALL BE CLEARLY IDENTIFIED BY ORANGE SAFETY FENCE PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE EXCEPT THOSE OPERATIONS NEEDED TO INSTALL EROSION AND SEDIMENT CONTROL MEASURES.
- 2. ENGINEER SHALL INSPECT SAFETY FENCING PRIOR TO LAND DISTURBANCE.
- 3. THE CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION ON THE SITE EXCEPT AS NOTED ON THE PLANS OR APPROVED BY THE CITY OF ROSWELL ENGINEER OR INSPECTOR.
- 4. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO CLEARING AND TRENCHING.
- 5. ORANGE SAFETY FENCE SHALL BE INSTALLED ALONG THE OUTER EDGE OF AND COMPLETELY SURROUNDING THE CRITICAL ROOT ZONES OF ALL SPECIMEN TREES OR STANDS OF TREES, OR OTHERWISE DESIGNATED TREE PROTECTION ZONES PRIOR TO ANY LAND DISTURBANCE.
- ALL TREE PROTECTION ZONES SHALL BE DESIGNATED WITH "TREE SAVE AREA" SIGNS.
- 7. WHEN DIGGING NEAR TREES, THE CONTRACTOR SHALL PRUNE ALL EXPOSED ROOTS 1-INCH IN DIAMETER AND LARGER ON THE SIDE OF THE TRENCH ADJACENT TO THE TREES. PRUNING SHALL CONSIST OF MAKING A CLEAN CUT FLUSH WITH THE SIDE OF THE TRENCH TO PROMOTE NEW ROOT GROWTH.
- 8. PRUNING OF TREE LIMBS TO PROVIDE CLEARANCE FOR EQUIPMENT AND MATERIALS SHALL BE DONE ACCORDING TO STANDARD ARBORICULTURAL PRACTICES.
- 9. ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY.

CONSTRUCTION SCHEDULE

ACTIVITY	WEEK							
ACTIVITY	1 2 3 4	4 5 6 7 8	3 9 10					
INSTALLATION OF SEDIMENT CONTROL								
INSTALLATION OF PIPELINE								
MAINTENANCE OF EROSION CONTROL								
TEMPORARY AND PERMANENT GRASSING	4							
CLEAN-UP	-							
ADDDOVIMATE CTADT, OCTODED 0047								

APPROXIMATE START: OCTOBER 2017 APPROXIMATE FINISH: JANUARY 2018

CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS PLAN WAS PREPARED AFTER A SITE VISIT TO THE LOCATIONS DESCRIBED HEREIN BY MYSELF OR MY AUTHORIZED AGENT, UNDER MY DIRECT SUPERVISION.

Reduc M. Cornello

PEDRO M. ROSSELLO, P.E. LEVEL II CERTIFIED DESIGN PROFESSIONAL #0000019365 EXP. DATE: 12/6/2018

UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION STRUCTURAL PRACTICES

anent or temporary stone filter dam installed across small stream:

wall installed to stabilize cut and fill slopes where maximum permissible

A device or structure placed in front of a permanent stormwater detention

A barrier to prevent sediment from leaving the construction site, it may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a sitt fen-

that releases/drains water from the surface of sediment p

	DESCRIPTION	con	DE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
		•					
	A small temporary barrier or dam constructed across a swale, drainage dath or area of concentrated flow.		Sr)	TEMPORARY STREAM CROSSING		(LABE	A temporary bridge or culvert-type structure protecting a stream or watercourse from demage by crossing construction equipment.
	improving, constructing or stabilizing an open channel, existing stream, or ditch.		St)	STORMDRAIN OUTLET PROTECTION		§)	A pawed or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
38	A crushed stone pad located at the construction site exit to provide a place for removing mud from thes thereby protecting public streets. U)	(5)	Su)	Surface Roughening		L≪Su —	A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
	A travelway constructed as part of a construction plan including access roads, subdivision roads, pasking areas and other on-site vehicle transportation routes,	(1	[o]	TURBIDITY CURTAIN		(d)	A floating or staked barrier installed within the water (it may also be referred to as a floating boom, six barrier, or six curtain).
	A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.	Ţ	(q)	TOPSOILING		(SHOW STRIPPING AND	The practice of stripping off the more fertile soil, storing R, then spreading R over the disturbed area after completion of construction activities.
	An earth channel or dike located above, below, or across a slope to divert runoff. This may be a temporary or permanent structure.		Γr	TREE PROTECTION	0	STORAGE AREAS) (DENOTE TREE	To protect desirable trees from injury during construction activity.
35	A flexible conduit of heavy-duty febric or other meterial designed to safely conduct surface runoff down a slope. This is temporary and trexpensive.	(v	Nt)	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL		CENTERS	Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.
	A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.						
뱩	L)						
	A temporary stone barrier constructed at storm drain inlets and pond outlets.						

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE	4	J) Br (LABIC	Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the resident streams of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)	FREE FEEFE	Cs	Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)		Ds1	Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (MTH TEMP SEEDING)		Ds2	Establishing a temporary vegetative cover with fast growing seedings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)	11/1, 1 P G	Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, gresses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded fands.
Du	DUST CONTROL ON DISTURBED AREAS		Du	Controlling surface and air movement of dust on construction site, roadways and similar sites.
FI-Co	FLOCCULANTS AND COAGULANTS		FI-Co	Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)	R. F. F.	Sb	The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair amail streambank erosion problems.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS	6 PM	Tac	Substance used to anchor straw or key mulch by causing the organic material to bind together.

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No. 25248

PROFESSIONAL

CERTIFIED EROSION CONTROL DESIGN PROFESSIONAL NUMBER 0000019365

SHEET NO.

Sd2-P

Sd1-S

SEORGIA N REPLACEME

ROSWELL, GE WATER MAIN F

SION

SHEET NO.