

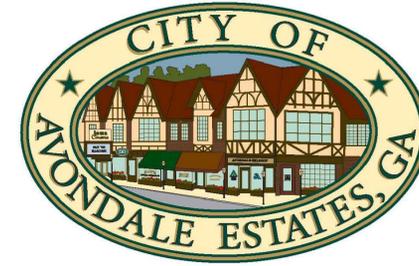
SHEET INDEX

- G-001 COVER
- C-001 GENERAL NOTES (1)
- C-002 GENERAL NOTES (2)
- 2 TOPOGRAPHIC SURVEY
- CU-101 STORM PLAN & PROFILE
- CU-501 CONSTRUCTION DETAILS (1)
- EC-101 EROSION, SEDIMENT, AND POLLUTION CONTROL PLAN
- EC-501 EROSION, SEDIMENT, AND POLLUTION CONTROL DETAILS (1)
- EC-502 EROSION, SEDIMENT, AND POLLUTION CONTROL DETAILS (2)
- LS-001 LANDSCAPE PLAN AND DETAILS

10 SHEETS TOTAL

100-PCT CONSTRUCTION PLANS FOR: DUNWICK DRIVE PHASE II STORMWATER CONVEYANCE IMPROVEMENTS

August 19, 2024



OWNER/PRIMARY PERMITTEE:

**CITY OF AVONDALE ESTATES
DEPARTMENT OF PUBLIC WORKS
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002
404-294-5400**

**CONTACT: KRISTIN MORETZ
KMORETZ@AVONDALEESTATES.ORG**

ENGINEER:

**MEGAN HANIFAN, PE
DEWBERRY
2951 FLOWERS ROAD SOUTH, SUITE 102
ATLANTA, GA 30341-5533
678.537.8645
678.530.0040 FAX**

24 HOUR EMERGENCY CONTACT:

**404.294.5400 (DISPATCH)
CITY OF AVONDALE ESTATES
PUBLIC WORKS
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002**

**DUNWICK DRIVE PHASE II
STORMWATER CONVEYANCE
IMPROVEMENTS
CITY OF AVONDALE ESTATES
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002**



CITY APPROVAL

SCALE

NO.	DESCRIPTION	DATE
4	ES&PC UPDATES	08/19/2024
3	100 PERCENT SUBMITTAL	07/08/2024
2	90 PERCENT SUBMITTAL	05/29/2024
1	60 PERCENT SUBMITTAL	03/07/2024

REVISIONS

DRAWN BY	JJ
APPROVED BY	SF
CHECKED BY	MH
DATE	08/19/2024

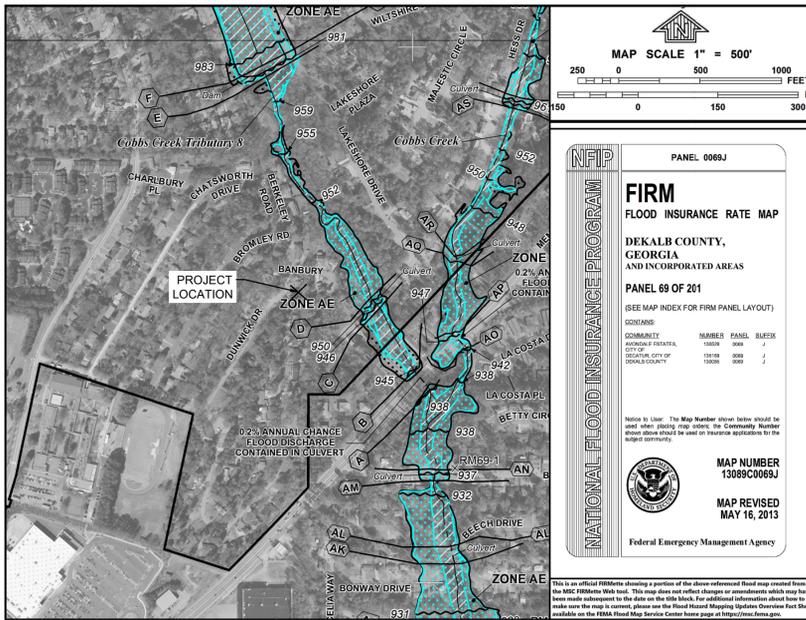
TITLE

COVER

PROJECT NO. 50169827

G-001

SHEET NO.

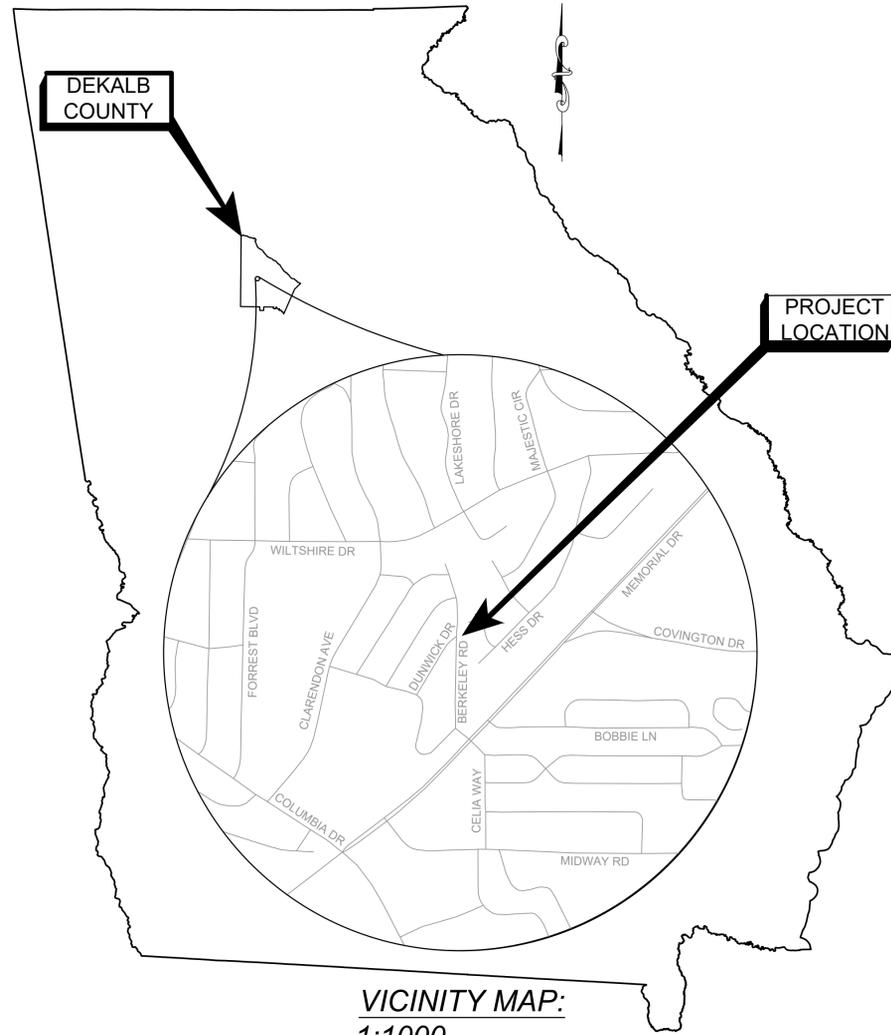


THERE IS NO DESIGNATED FLOODPLAIN ZONE ON THIS PROPERTY FROM A WATERCOURSE WITH A DRAINAGE AREA EXCEEDING 100 ACRES PER FIRM PANEL 13089C0069J DATED MAY 16, 2013.

ANTICIPATED ACTIVITY SCHEDULE

ACTIVITY DESCRIPTION	MONTH 1			MONTH 2		
	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
NTP TO CONTRACTOR	●					
PROJECT KICKOFF	●					
MOBILIZATION	■	■				
INSTALLATION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES	■	■				
MAINTENANCE OF E&S AND INTERMEDIATE PHASES	■	■	■	■	■	■
INSTALL STORMWATER CONDUITS AND STRUCTURES		■	■	■	■	■
SITE RESTORATION				■	■	■
FINAL STABILIZATION AND CLEANUP					■	■
REMOVAL OF EROSION AND SEDIMENT CONTROL MEASURES						■
SUBSTANTIAL COMPLETION/PUNCH LIST						■
FINAL COMPLETION						■

*NOTE - THE SCHEDULE SHOWN IS ANTICIPATED. ACTUAL ACTIVITY SCHEDULE MAY VARY FROM WHAT IS SHOWN.



NOTES:

1. THIS PROJECT IS LOCATED 100% IN ZONING DISTRICT R-12
2. THIS PROJECT IS LOCATED 100% IN LAND DISTRICT 15.
3. THIS PROJECT IS LOCATED 79% IN LAND LOT 217 & 21% IN LAND LOT 218
4. THIS PROJECT IS LOCATED 100% IN CITY OF AVONDALE ESTATES, DEKALB COUNTY.
5. TOTAL DISTURBED AREA IS 0.32 ACRES
6. THIS PROJECT HAS BEEN PREPARED USING THE HORIZONTAL COORDINATE SYSTEM OF NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 (FT), AND THE NORTH AMERICAN VERTICAL DATUM (NAVD) OF 1988.

UTILITY CONTACTS		
GAS SOUTHERN COMPANY GAS REGGIE TERRELL 10 PEACHTREE ST NE ATLANTA, GA 30309 404-584-34744	WATER & SEWER DEKALB COUNTY WATER & SEWER JEFFERY WOODS 4572 MEMORIAL DR DECATUR, GA 30032 770-612-7222	POWER GEORGIA POWER BRIAN GOLSON 823 JEFFERSON ST ATLANTA, GA 30318 404-506-4569
TELEPHONE AT&T DISTRIBUTION ANGELO HINES 725 PEACHTREE ST NE ATLANTA, GA 30308 770-784-3972	TELECOMMUNICATIONS GOOGLE FIBER GREG SPELL 1600 AMPHITHEATRE PKWY MOUNTAIN VIEW, GA 30403 470-242-4734	



Know what's below.
Call before you dig.

E

D

C

B

A

DESCRIPTION	EXISTING	NEW	DESCRIPTION	EXISTING	NEW	DESCRIPTION	EXISTING	NEW
CURB AND GUTTER (C&G)			STAND PIPE			OVERHEAD POWER LINE		
STORM DRAIN LINE			UNDERGROUND POWER BOX			UNDERGROUND POWER LINE		
CATCH BASIN (DWCB)			ELECTRIC BOX			UNDERGROUND COMMUNICATION		
CATCH BASIN (SWCB)			TRANSFORMER			CABLE TV		
DROP INLET (DI)			UNDERGROUND ELECTRIC MANHOLE			WATER		
JUNCTION BOX (JB)			HAND HOLE			SANITARY SEWER		
HEAD WALL (HW)			GUY WIRE ELECTRIC			GAS		
CURB INLET (CI)			METER POWER			PETROLEUM		
FLARED END SECTION (FES)			POLE/UTILITY			TRAFFIC CONTROL		
OUTLET CONTROL STRUCTURE			SIGNAL HEAD			GAS LINE (APPROXIMATE)		
YARD DRAIN INLET			TELEPHONE MANHOLE			UNDERGROUND POWER (APPROXIMATE)		
SS MANHOLE (MH)			TELEPHONE TERMINAL BOX			UNDERGROUND TELEPHONE (APPROXIMATE)		
CLEAN OUT (CO)			TRAFFIC SIGNAL BOX			WATER LINE (APPROXIMATE)		
IRRIGATION CONTROL VALVE (ICV)			TRAFFIC SIGNAL POLE			CHAIN LINK FENCE		
FIRE HYDRANT (FH)			UNDERGROUND CABLE TV			WOOD FENCE		
WATER VALVE (WV)			UNDERGROUND TELEPHONE BOX			WOVEN WIRE FENCE		
WATER METER (WM)			SPLICE BOX			FLOODPLAIN		
FIRE DEPT. CONNECTION (FDC)			SUBSCRIBER LOOP			25' STREAM BUFFER		
WATER VALVE MARKER			CARRIER CABINET			50' STREAM BUFFER		
AIR CONDITIONER (AC)			PHONE BOOTH			STORM EASEMENTS		
ELECTRIC UTILITY			CABLE TV PEDESTAL			SANITARY SEWER EASEMENTS		
GREASE TRAP (GT)			GAS MANHOLE			GUARDRAIL		
LIGHT POLE (LP)			GAS PRESSURE REGULATOR			CONTOUR LINES		
POWER POLE WITH LIGHT			GAS VAULT			CONSTRUCTION LIMITS		
UTILITY MANHOLE (UM)			GAS TEST STATION			EDGE OF PAVEMENT		
SPOTLIGHT			PETROLEUM VALVE			PROPERTY LINE		
GAS VALVE (GV)			GAS FILL CAP			HANDRAIL		
TELEPHONE PEDESTAL			GAS METER					
COMMUNICATION BOX			GAS VALVE					
TRAFFIC SIGNAL			UTILITY GRATE					
BOLLARD (BO)			UTILITY MARKER					
MAIL BOX			HARDWOOD TREE					
SIGN			PINE TREE					
CROSSWALK SIGNAL			CITY LIMITS LINE					
SPOT ELEVATION			LIMITED ACCESS					
CONCRETE AREA			CENTER OF CREEK					
OVERHANG AREA								
RIP-RAP AREA								
BRICK AREA								
TREELINE								

ABBREVIATIONS

A	ARC LENGTH	IPS	IRON PIN SET (CAPPED)
AC.	ACRE	N/F	NOW OR FORMERLY
AE	ACCESS EASEMENT	OTP	OPEN TOP PIPE
BSL	BUILDING SETBACK LINE	PB.	PLAT BOOK
BW	BARBWIRE	PG.	PAGE
CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAIN LINK FENCE	POC	POINT OF COMMENCEMENT
CMF	CONCRETE MONUMENT FOUND	R	RADIUS LENGTH
CMP	CORRUGATED METAL PIPE	R/W	RIGHT OF WAY
CONC.	CONCRETE	R/W MON	RIGHT OF WAY MONUMENT
CTP	CRIMP TOP PIPE	RB	REBAR
DB.	DEED BOOK	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	SDE	STORM DRAINAGE EASEMENT
FDC	FIRE DEPARTMENT CONNECTION	SQ. FT.	SQUARE FEET
FND	FOUND	SSE	SANITARY SEWER EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	WPF	WOOD PRIVACY FENCE
IPF	IRON PIN FOUND		

TREE LEGEND (ABBREVIATIONS)

	DECIDUOUS (TREE)	BIR	BIRCH	HLY	HOLLY
	CONIFEROUS (TREE)	BCH	BEECH	HW	HARDWOOD
	SHRUB	CM	CRAPE MYRTLE	JM	JAPANESE MAPLE
		CHY	CHERRY	MAG	MAGNOLIA
		CYP	CYPRESS	MAP	MAPLE
		FIR	FIR	OAK	OAK
		GINGKO	GINGKO	ORN	ORNAMENTAL
		GUM	SWEET GUM	POP	POPLAR
		HIC	HICKORY	SYC	SYCAMORE

SEAL



CITY APPROVAL

SCALE

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4	ES&PC UPDATES	08/19/2024
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2	90 PERCENT SUBMITTAL	05/29/2024
1	60 PERCENT SUBMITTAL	03/07/2024

REVISIONS

DRAWN BY	JJ
APPROVED BY	SF
CHECKED BY	MH
DATE	08/19/2024

TITLE

GENERAL NOTES (2)

PROJECT NO. 50169827

C-002

SHEET NO.



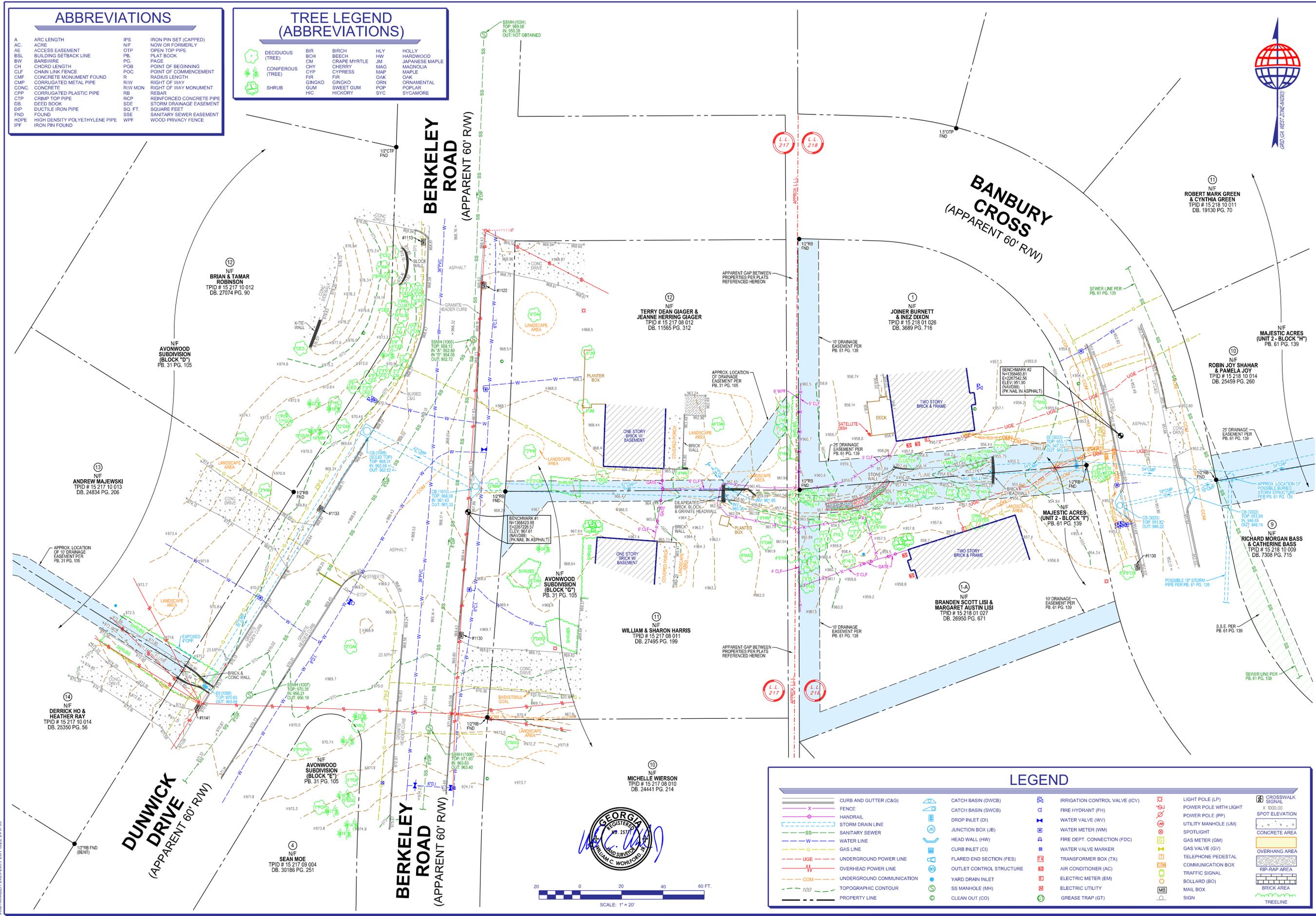
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Call before you dig.

ABBREVIATIONS

A	ARC LENGTH	IFS	IRON PIN SET (CAPPED)
AC	ACRE	NIF	NOW OR FORMERLY
AE	ACCESS EASEMENT	OTP	OPEN TOP PIPE
BSL	BUILDING SETBACK LINE	PB	PLAT BOOK
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CH	CHORD LENGTH	POB	POINT OF BEGINNING
CLF	CHAIN LINK FENCE	POC	POINT OF COMMENCEMENT
CMF	CONCRETE MONUMENT FOUND	R	RADIUS LENGTH
CMP	CORRUGATED METAL PIPE	R/W	RIGHT OF WAY
CONC.	CONCRETE	R/W MON	RIGHT OF WAY MONUMENT
CPP	CORRUGATED PLASTIC PIPE	REBAR	REINFORCED CONCRETE PIPE
CTP	CRIMP TOP PIPE	RCP	REINFORCED CONCRETE PIPE
DB	DEED BOOK	SDE	STORM DRAINAGE EASEMENT
DIP	DUCTILE IRON PIPE	SD. FT.	SQUARE FEET
FND	FOUND	SSE	SANITARY SEWER EASEMENT
HDPE	HIGH DENSITY POLYETHYLENE PIPE	WPF	WOOD PRIVACY FENCE
IPF	IRON PIN FOUND		

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	CYP	CYPRESS	MAP	MAPLE
	PIR	PINE	OAK	OAK
	GNG	GINKGO	ORN	ORNAMENTAL
	GUM	SWEET GUM	POP	POPLAR
	HIC	HICKORY	SYC	SYCAMORE



Phone No. (770) 424-1827
www.TerraMark.com
C. O. A. # LSF000819

TerraMark Land Surveying, Inc.
1598 Balls Ferry Road
Marietta, Georgia 30066

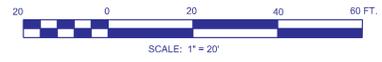
Project No.	No.	Date	Revision
2022-295	1	07/19/2024	ADDRESSED CLIENT'S COMMENTS
	2		
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PARTIAL TOPOGRAPHIC SURVEY FOR DEWBERRY ENGINEERS INC. (DUNWICK DRIVE AT BERKELEY ROAD) LOCATED IN LAND LOTS 217 & 218, 15TH DISTRICT CITY OF AVONDALE ESTATES, DEKALB COUNTY, GEORGIA

SHEET NO. **2/2**
DRAWING# TM 23-295

LEGEND

—	CURBS AND GUTTER (C&G)	⊕	CATCH BASIN (DWCB)	⊕	IRRIGATION CONTROL VALVE (ICV)	⊕	LIGHT POLE (LP)	⊕	CROSSWALK SIGNAL
—	FENCE	⊕	CATCH BASIN (SWCB)	⊕	FIRE HYDRANT (FH)	⊕	POWER POLE WITH LIGHT	⊕	POWER POLE WITH LIGHT
—	HANDRAIL	⊕	DROP INLET (DI)	⊕	WATER VALVE (WV)	⊕	UTILITY MANHOLE (UM)	⊕	SPOT ELEVATION
—	STORM DRAIN LINE	⊕	JUNCTION BOX (JB)	⊕	WATER METER (WM)	⊕	SPOTLIGHT	⊕	CONCRETE AREA
—	SANITARY SEWER	⊕	HEAD WALL (HW)	⊕	FIRE DEPT. CONNECTION (FDC)	⊕	GAS METER (GM)	⊕	OVERHANG AREA
—	SANITARY SEWER	⊕	CURB INLET (CI)	⊕	TRANSFORMER BOX (TX)	⊕	GAS VALVE (GV)	⊕	TRIP-RAP AREA
—	WATER LINE	⊕	FLARED END SECTION (FES)	⊕	AIR CONDITIONER (AC)	⊕	TELEPHONE PEDESTAL	⊕	BRICK AREA
—	GAS LINE	⊕	OUTLET CONTROL STRUCTURE	⊕	ELECTRIC METER (EM)	⊕	COMMUNICATION BOX	⊕	TREE LINE
—	UNDERGROUND POWER LINE	⊕	YARD DRAIN INLET	⊕	ELECTRIC UTILITY	⊕	TRAFFIC SIGNAL		
—	OVERHEAD POWER LINE	⊕	SS MANHOLE (MH)	⊕	GREASE TRAP (GT)	⊕	BOLLARD (BO)		
—	UNDERGROUND COMMUNICATION	⊕	CLEAN OUT (CO)			⊕	MAIL BOX		
—	100' TOPOGRAPHIC CONTOUR					⊕	SIGN		
—	PROPERTY LINE								



JOB NUMBER 2023-295 PLOT SIZE 24 X 36

Know what's below.
Call before you dig.

APPROX LOCATION OF DRAINAGE EASEMENT PER PB. 51 PG. 105



DEWBERRY ENGINEERS INC.
2951 Flowers Road South
Suite 102
Atlanta, GA 30341-5533
678.530.0022
License No. PEF002398
Expires 6/30/2026

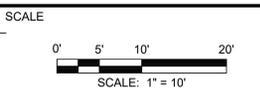
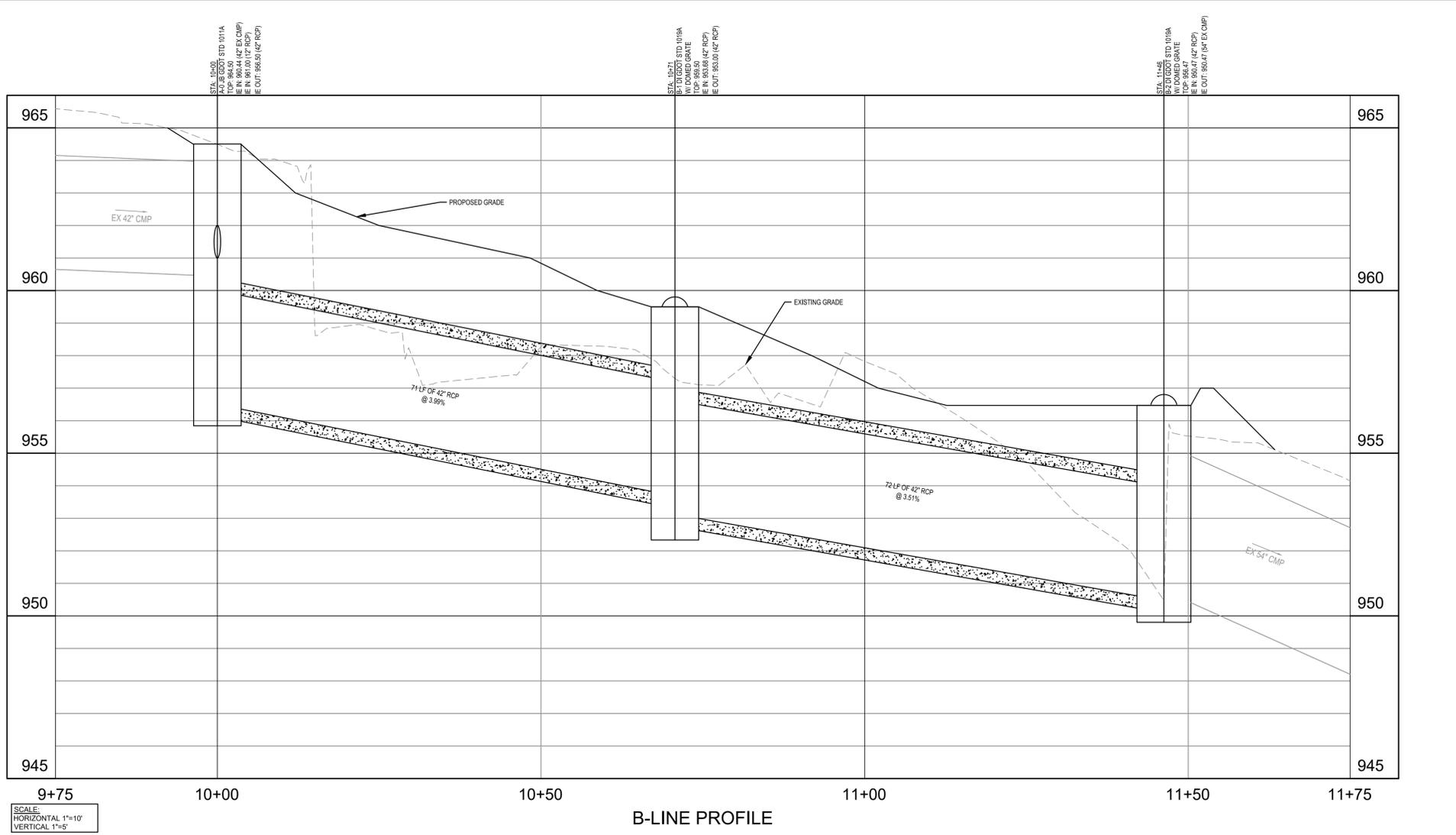
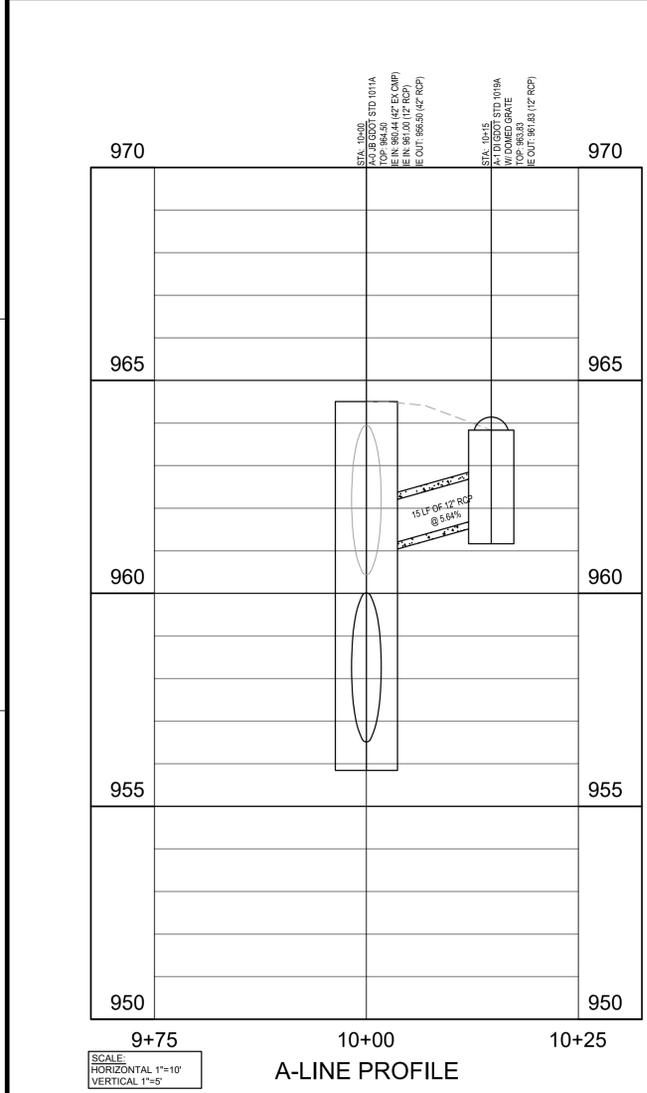
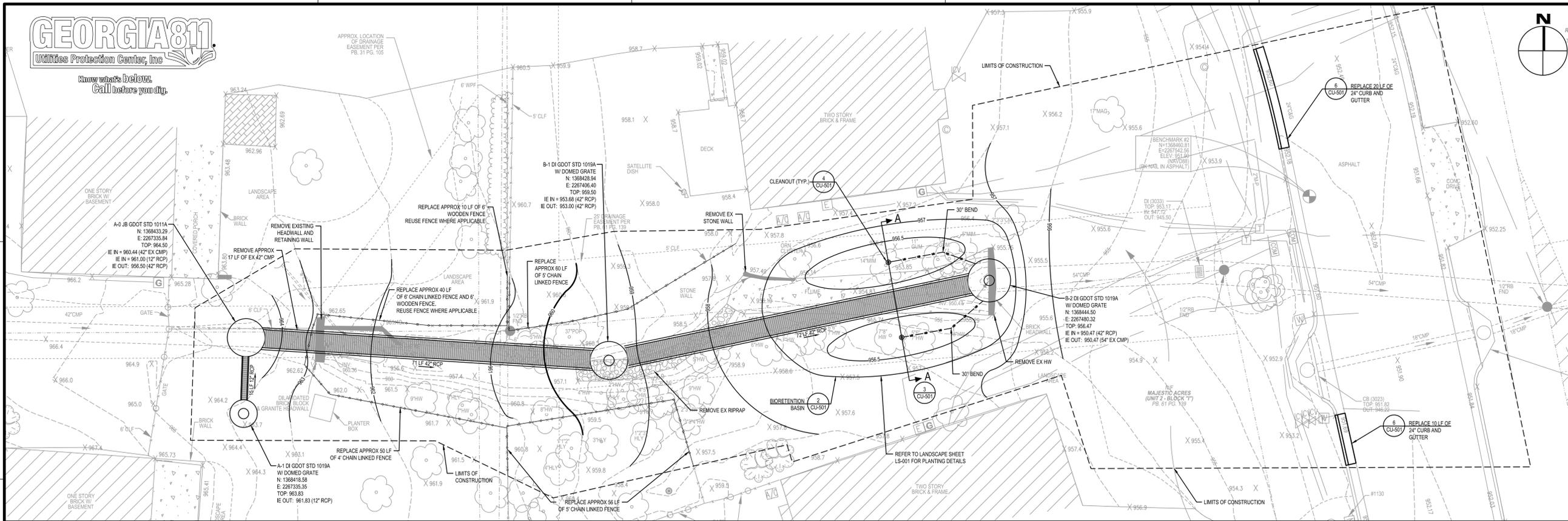
**DUNWICK DRIVE PHASE II
STORMWATER CONVEYANCE
IMPROVEMENTS**

CITY OF AVONDALE ESTATES
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002

SEAL



CITY APPROVAL



NO.	DESCRIPTION	DATE
4	ESS&PC UPDATES	08/19/2024
3	100 PERCENT SUBMITTAL	07/08/2024
2	90 PERCENT SUBMITTAL	05/29/2024
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REVISIONS

DRAWN BY _____ JJ
APPROVED BY _____ SF
CHECKED BY _____ MH
DATE _____ 08/19/2024

TITLE

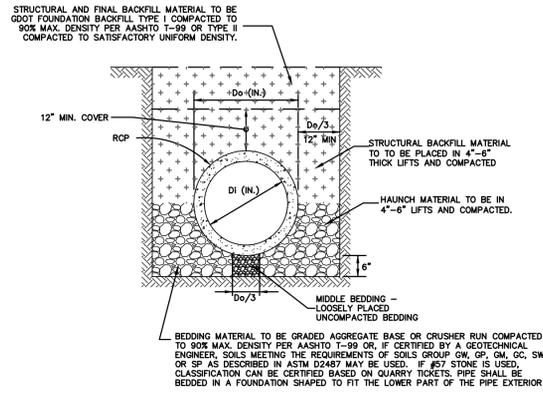
**PLAN AND
PROFILE**

PROJECT NO. 50169827

CU-101

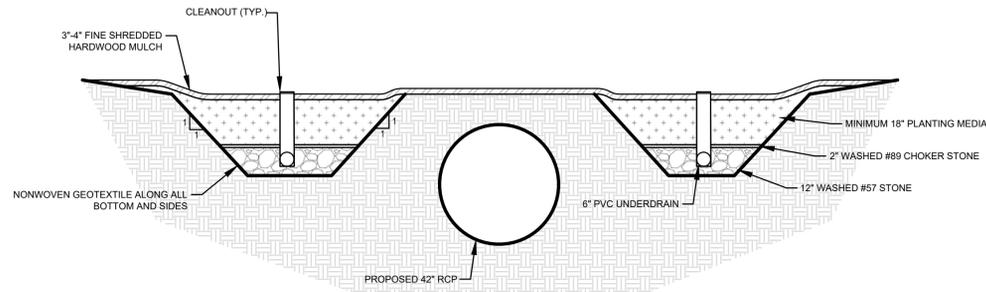
SHEET NO.

STANDARD PIPE BEDDING AND BACKFILL DETAIL



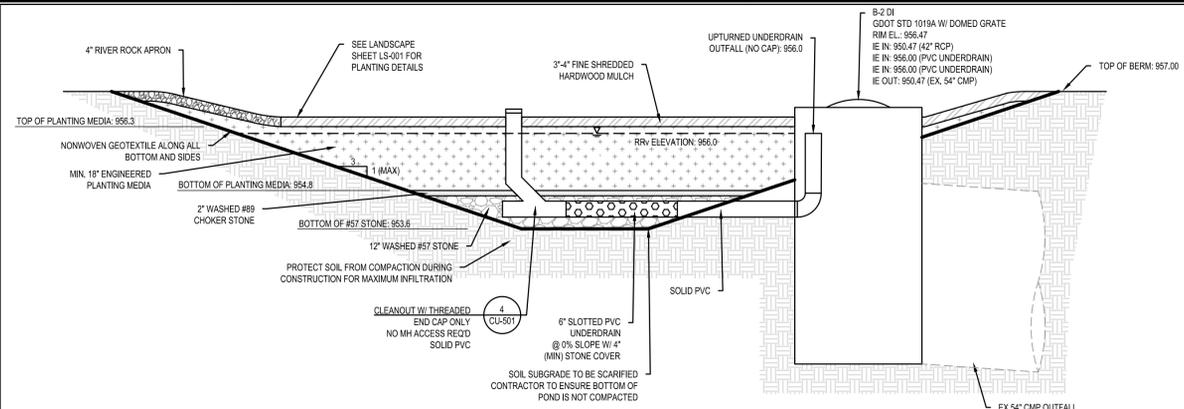
- GENERAL NOTES:**
- TRENCH BOTTOMS SHOULD BE FREE OF LARGE STONES, CLUMPS OF SOIL, FROZEN SOIL AND DEBRIS. WHERE AN INCOMPRESSIBLE FOUNDATION EXISTS, EXCAVATE AN ADDITIONAL 6". WHERE AN UNSTABLE FOUNDATION IS ENCOUNTERED, EXCAVATE AN ADDITIONAL DEPTH AS SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNER AND BACKFILL WITH GDOT FOUNDATION BACKFILL TYPE II.
 - GROUNDWATER MAY CAUSE MIGRATION OF FINES WHEN COARSE AND OPEN-GRADED MATERIAL IS PLACED ADJACENT TO A FINER MATERIAL. USE GEOTEXTILE FILTER FABRIC TO MINIMIZE SUCH MIGRATION.
 - BELL HOLES SHALL BE EXCAVATED IN THE BEDDING WHEN INSTALLING PIPE WITH EXTENDED BELLS SO THAT THE PIPE IS SUPPORTED BY THE BARREL AND NOT BY THE BELLS.
 - ALL JOINTS SHALL BE WRAPPED WITH PLASTIC POLYLINER.
 - PIPE LINE ITEM INCLUDES ALL ITEMS SHOWN IN DETAIL.

1 STANDARD BEDDING AND BACKFILL DETAIL FOR RCP
CU-501 SCALE: NTS



SECTION A-A

3 BIORETENTION SECTION VIEW
CU-501 SCALE: NTS



BIORETENTION PLANTING MEDIA MIX NOTE:

THE SOIL MIXTURE FOR USE IN A BIORETENTION FACILITY SHALL CONTAIN 60% SAND, 30% TOPSOIL CONTENT, AND 10% ORGANIC MATERIAL (COMPOST, TOPSOIL) AND HAVE A PERMEABILITY (K) RATING FROM 2 INCH/HOUR TO 4 INCH/HOUR AS MEASURED IN THE FIELD. PERMEABILITY TEST RESULTS MUST BE SUBMITTED TO THE ENGINEER AND APPROVED PRIOR TO INSTALLATION OF MATERIAL. THE SOIL SHOULD HAVE A pH BETWEEN 5.5 TO 6.5 AND THE CLAY CONTENT OF THE SOIL MIXTURE CANNOT EXCEED 15%. SOIL MUST NOT BE INSTALLED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED AND APPROVED BY THE ENGINEER. SOIL MIXTURES SHALL BE INSTALLED IN 8 TO 12 INCH LIFTS TO ENSURE ADEQUATE FILTRATION AND SHALL BE LIGHTLY BOOT COMPACTED.

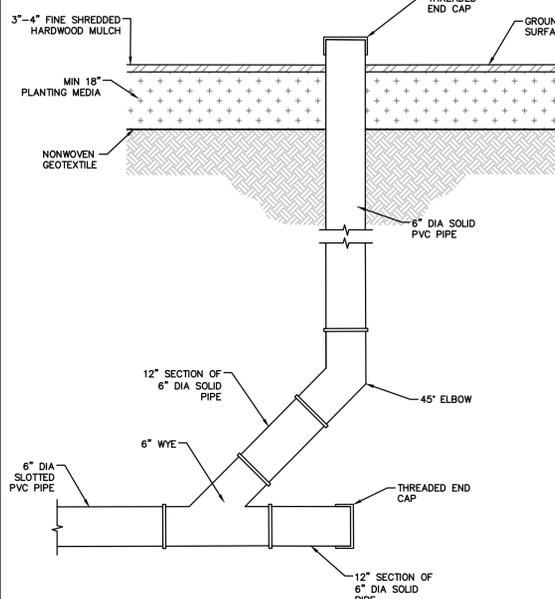
CONSTRUCTION NOTES:

- INSTALL EROSION CONTROL MEASURES AND TREE PROTECTION. THE CONTRACTOR MAY MODIFY OR RELOCATE EROSION CONTROL MEASURES TO MAKE ADJUSTMENTS FOR UNFORESEEN FIELD CONDITIONS. ALL RELOCATION SHALL HAVE THE APPROVAL OF THE ENGINEER.
- CLEAR AND GRUB AREA OF ALL TRASH AND EXOTIC/INVASIVE VEGETATION.
- APPROXIMATE STOCKPILE AREAS MAY BE RELOCATED OR ADJUSTED WITH THE APPROVAL OF THE ENGINEER.
- INSTALL EROSION CONTROL MAT PER MANUFACTURER'S INSTRUCTION.
- INSTALL PLANTS AS DESCRIBED IN PLANTING NOTES ON SHEET LS-001

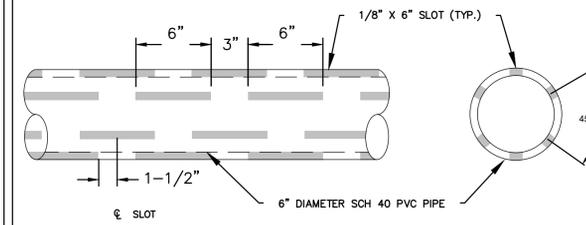
NOTES:

- CONTRACTOR SHALL INSTALL THE BIORETENTION AREA ONCE UPSTREAM DRAINAGE IS STABILIZED. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PREVENT EROSION FROM ENTERING INTO THE BIORETENTION SOIL MIX DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS OF THE PLANTING SOIL MIX AND WASHED SAND TO VERIFY SPECIFICATIONS ARE MET.
- CONTRACTOR SHALL PERFORM TWO FIELD TESTS OF THE BIORETENTION MEDIUM POST-CONSTRUCTION TO ENSURE THAT THE INFILTRATION RATE OF THE BIORETENTION MEDIUM IS 2 INCHES PER HOUR OR GREATER.

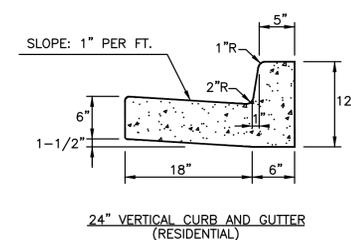
2 BIORETENTION
CU-501 SCALE: NTS



4 CLEANOUT
CU-501 SCALE: NTS



5 SLOTTED PVC UNDERDRAIN
CU-501 SCALE: NTS



NOTES:

- ALL CURB AND GUTTER CONCRETE SHALL BE CLASS A 3000 PSI.

6 24\"/>



DEWBERRY ENGINEERS INC.
2951 Flowers Road South
Suite 102
Atlanta, GA 30341-5533
678.530.0022
License No. PEF002398
Expires 6/30/2026

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STORMWATER CONVEYANCE
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REVISIONS

DRAWN BY _____ JJ
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TITLE

DETAILS

PROJECT NO. 50169827

CU-501

SHEET NO.



UNIFORM CODING SYSTEM

FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Sd1-S	SEDIMENT BARRIER			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 silt fence.
St	STORMDRAIN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Tp	TOPSOILING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			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 (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)			A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
1. COOL SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500 LBS/AC	50-100 LBS/AC 1/2/30
	SECOND MAINTENANCE	6-12-12	1000 LBS/AC	-
	10-10-10	400 LBS/AC	-	
2. COOL SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500 LBS/AC	0-50 LBS/AC 1/30
	SECOND MAINTENANCE	0-10-10	1000 LBS/AC	-
	0-10-10	400 LBS/AC	-	
3. GROUND COVERS	FIRST MAINTENANCE	10-10-10	1300 LBS/AC 3/1100 LBS/AC	-
	SECOND MAINTENANCE	10-10-10	1300 LBS/AC 3/1100 LBS/AC	-
	10-10-10	400 LBS/AC	-	
4. SHRUBS LESPEDEZA	FIRST MAINTENANCE	0-10-10	700 LBS/AC	-
	SECOND MAINTENANCE	0-10-10	700 LBS/AC 4/	-
5. TEMPORARY COVER CROPS SEEDED ALONE	FIRST MAINTENANCE	10-10-10	500 LBS/AC	30 LBS/AC 5/
6. WARM SEASON GRASSES	FIRST MAINTENANCE	6-12-12	1500 LBS/AC	50-100 LBS/AC 2/6/30
	SECOND MAINTENANCE	6-12-12	800 LBS/AC	-
	10-10-10	400 LBS/AC	-	
7. WARM SEASON GRASSES AND LEGUMES	FIRST MAINTENANCE	6-12-12	1500 LBS/AC	50 LBS/AC 6/
	SECOND MAINTENANCE	0-10-10	1000 LBS/AC	-
	0-10-10	400 LBS/AC	-	

MULCHING RATES:
 1. DRY STRAW: 2 TONS PER ACRE.
 2. DRY HAY: 2-1/2 TONS PER ACRE.
 3. FOR HYDRAULIC SEEDING USE WOOD CELLULOSE MULCH OR WOOD PULP FIBER AT THE RATE OF 500 POUNDS PER ACRE.
 1/ APPLY IN SPRING FOLLOWING SEEDING.
 2/ APPLY IN SPLIT APPLICATIONS WHEN HIGH RATES ARE USED.
 3/ APPLY IN 3 SPLIT APPLICATIONS.
 4/ APPLY WHEN PLANTS ARE PRUNED.
 5/ APPLY TO GRASS SPECIES ONLY.
 6/ APPLY WHEN PLANTS GROW TO A HEIGHT OF 2 TO 4 INCHES.

FERTILIZER AND MULCHING REQUIREMENTS
SCALE:NTS E41 Ds1

SPECIES	BROADCAST		RESOURCE AREA	PLANTING DATES												REMARKS	
	PER ACRE	PER 1000 SF		J	F	M	A	M	J	J	A	S	O	N	D		
BARLEY ALONE IN MIXTURE	144 LBS 24 LBS	3.3 LBS 0.6 LBS	M-L P C														14,000 SEED PER POUND WINTER HARDY. USE ON PRODUCTIVE SOILS
MILLET, BROWN TOP ALONE IN MIXTURE	40 LBS 10 LBS	0.9 LBS 0.2 LBS	M-L P C														137,000 SEED PER POUND, QUICK DENSE COVER. WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDED AT HIGH RATES
RYE ALONE IN MIXTURE	3 BU 1/2 BU	3.9 LBS 0.6 LBS	M-L P C														18,000 SEED PER POUND, QUICK COVER. DROUGHT TOLERANT AND WINTER HARDY
RYEGRASS, ANNUAL ALONE	40 LBS	0.9 LBS	M-L P C														227,000 SEED PER POUND, DENSE COVER. VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES.

M-L REPRESENTS TO MOUNTAIN; BLUE RIDGE; AND RIDGES AND VALLEYS MLRA'S
 C REPRESENTS THE SOUTHERN COASTAL PLAIN; SAND HILLS; AND ATLANTIC COAST. FLATWOOS MLRA'S

DISTURBED AREA STABILIZATION (TEMP)
SCALE:NTS E42 Ds2

SOD MAINTENANCE AND INSTALLATION

SOD LAYOUT AND PREPARATION

LAY SOD IN A STAGGERED PATTERN. BUTT THE STRIPS TIGHTLY AGAINST EACH OTHER. DO NOT LEAVE SPACES AND DO NOT OVERLAP. A SHARPENED MASON'S TROWEL IS A HANDY TOOL FOR TUCKING DOWN THE ENDS AND TRIMMING PIECES.

INCORRECT **CORRECT**

BUTTING: ANGLED ENDS CAUSED BY THE AUTOMATIC SOD CUTTER MUST BE MATCHED CORRECTLY.

DIRECTIONS FOR INITIAL MAINTENANCE

Step 1. ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL

Step 2. WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.

Step 3. MOW WHEN THE SOD IS ESTABLISHED -- IN 2-3 WEEKS. SET THE MOWER HIGH (2"-3").

APPEARANCE OF GOOD SOD

SHOOTS OR GRASS BLADES: GRASS SHOULD BE GREEN AND HEALTHY, MOWED AT A 2"-3" CUTTING HEIGHT.

THATCH: GRASS CLIPPINGS AND DEAD LEAVES (UP TO 1/2" THICK).

ROOT ZONE: SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK WITH DENSE ROOT MAT FOR STRENGTH.

DISTURBED AREA STABILIZATION (SOD)
SCALE:NTS Ds4

**DUNWICK DRIVE PHASE II
 STORMWATER CONVEYANCE
 IMPROVEMENTS**
 CITY OF AVONDALE ESTATES
 21 NORTH AVONDALE PLAZA
 AVONDALE ESTATES, GA 30002



CITY APPROVAL

SCALE

NO.	DESCRIPTION	DATE
4	ES&PC UPDATES	08/19/2024
3	100 PERCENT SUBMITTAL	07/08/2024
2	90 PERCENT SUBMITTAL	05/29/2024
1	60 PERCENT SUBMITTAL	03/07/2024

REVISIONS

DRAWN BY _____ JJ
 APPROVED BY _____ SF
 CHECKED BY _____ MH
 DATE _____ 08/19/2024

TITLE
**ES&PC DETAILS
 (1)**

Megan Hanifan
 MEGAN HANIFAN, PE
 LEVEL II CERTIFIED DESIGN PROFESSIONAL
 GSWCC CERTIFICATION NO. 86325
 EXPIRES 01/08/2025

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 Utilities Protection Center, Inc.
 Know what's below.
 Call before you dig.

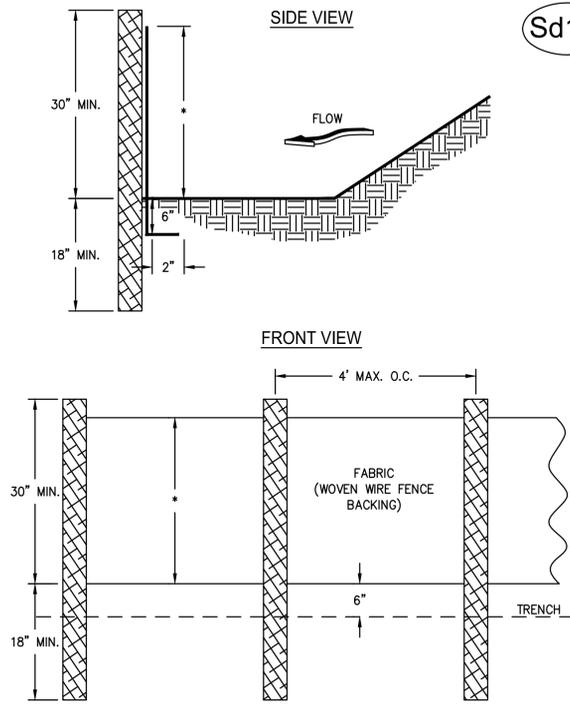
PROJECT NO. 50169827

EC-501

SHEET NO.

SILT FENCE - TYPE SENSITIVE

Sd1-S

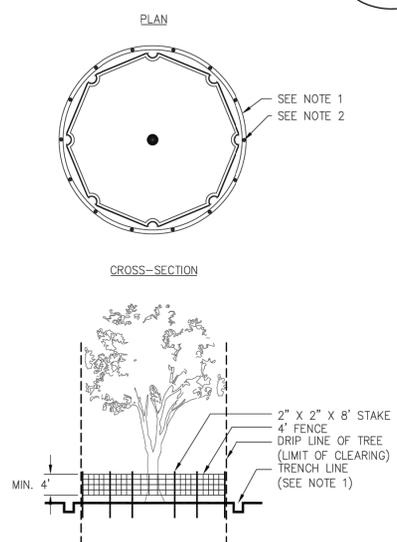


- NOTES:
1. USE STEEL POSTS WITH WIRE REINFORCEMENT OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.

TREE PROTECTION

"SNOW" FENCE

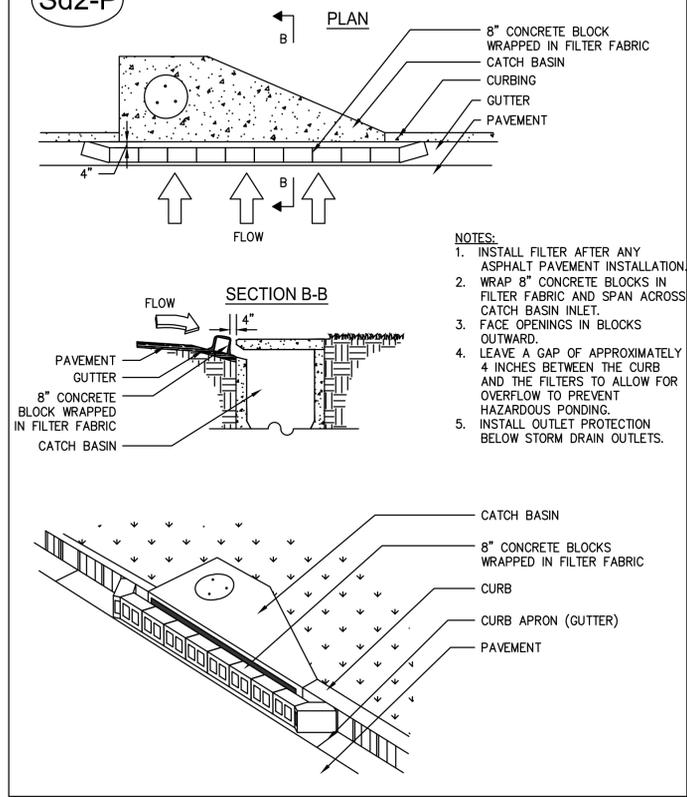
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- NOTES:
1. USE TRENCHER (I.E. DITCH WHICH) TO CUT A 4"-5" W X 18" D TRENCH ALONG DRIP LINE (LIMIT OF CLEARING) AND BACKFILL WITH SAND AND LIGHTLY COMPACT.
 2. SPACE STAKES AT INTERVALS SUFFICIENT TO MAINTAIN ALL FENCING OUT OF DRIP LINE OR AS SHOWN BY ENGINEER (SET STAKES NO GREATER THAN 6 FEET ON CENTER-REBAR IS NOT TO BE USED FOR STAKES).
 3. MAINTAIN FENCE BY REPAIRING AND/OR REPLACING DAMAGED FENCE. DO NOT REMOVE FENCING PRIOR TO LANDSCAPING OPERATIONS.
 4. DO NOT STORE OR STACK MATERIALS, EQUIPMENT, OR VEHICLES WITHIN FENCED AREA.
 5. FENCE SHALL BE ORANGE VINYL "SNOW FENCE" 4' HIGH MINIMUM.

CURB INLET FILTER "PIGS IN BLANKET"

Sd2-P

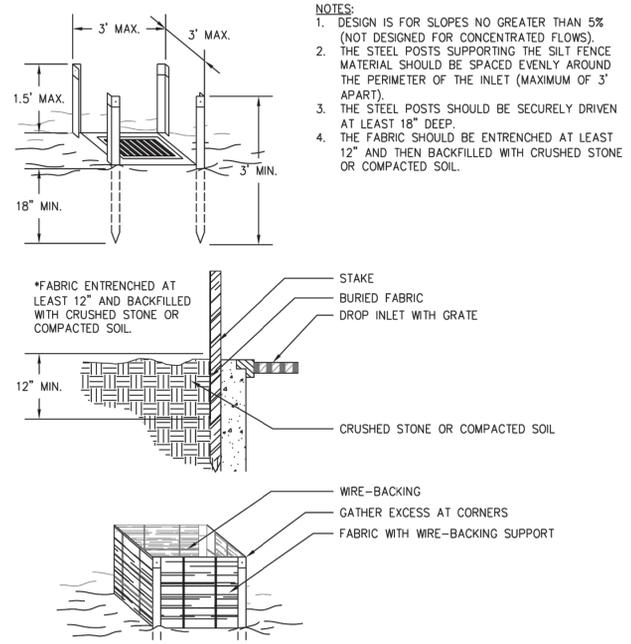


- NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
 2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
 3. FACE OPENINGS IN BLOCKS OUTWARD.
 4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
 5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION

Sd2-F

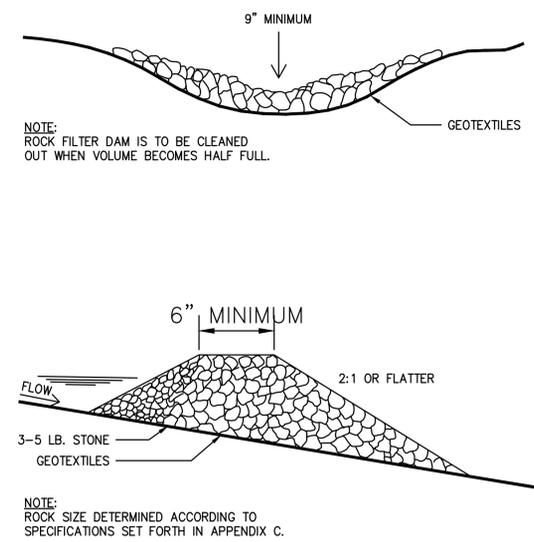
STEEL FRAME AND TYPE C SILT FENCE INSTALLATION



- NOTES:
1. DESIGN IS FOR SLOPES NO GREATER THAN 5% (NOT DESIGNED FOR CONCENTRATED FLOWS).
 2. THE STEEL POSTS SUPPORTING THE SILT FENCE MATERIAL SHOULD BE SPACED EVENLY AROUND THE PERIMETER OF THE INLET (MAXIMUM OF 3' APART).
 3. THE STEEL POSTS SHOULD BE SECURELY DRIVEN AT LEAST 18" DEEP.
 4. THE FABRIC SHOULD BE ENTRENCHED AT LEAST 12" AND THEN BACKFILLED WITH CRUSHED STONE OR COMPACTED SOIL.

ROCK FILTER DAM

Rd



NOTE: ROCK FILTER DAM IS TO BE CLEANED OUT WHEN VOLUME BECOMES HALF FULL.

NOTE: ROCK SIZE DETERMINED ACCORDING TO SPECIFICATIONS SET FORTH IN APPENDIX C.



DEWBERRY ENGINEERS INC.
2951 Flowers Road South
Suite 102
Atlanta, GA 30341-5533
678.530.0022
License No. PEF002398
Expires 6/30/2026

DUNWICK DRIVE PHASE II
STORMWATER CONVEYANCE
IMPROVEMENTS
CITY OF AVONDALE ESTATES
21 NORTH AVONDALE PLAZA
AVONDALE ESTATES, GA 30002

SEAL



CITY APPROVAL

SCALE

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DRAWN BY _____ JJ
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CHECKED BY _____ MH
DATE _____ 08/19/2024

TITLE

ES&PC DETAILS (2)

PROJECT NO. 50169827

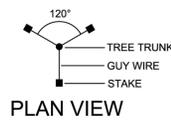
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SHEET NO.

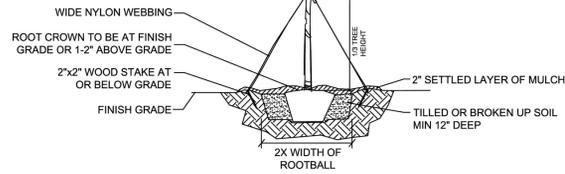
Megan Hanifan
MEGAN HANIFAN, PE
LEVEL II CERTIFIED DESIGN PROFESSIONAL
GSWCC CERTIFICATION NO. 86325
EXPIRES 01/08/2025



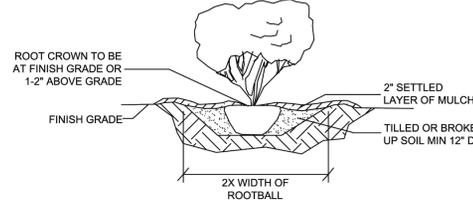
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PLAN VIEW



TREE PLANTING (>2" CAL.)
NOT TO SCALE



TYP. SHRUB PLANTING:
INDIVIDUAL PLANTING HOLE
NOT TO SCALE

PLANT SCHEDULE

ABBR	QTY	BOTANICAL NAME	COMMON NAME	CONT.	HEIGHT/SPREAD	CALIPER	SPACING	REMARKS
TREES								
QM	2	QUERCUS MICHAUXII	SWAMP CHESTNUT OAK	B&B	14' HT.	3" CAL.	SEE PLAN	FULL MATCHED SPECIMEN
PO	2	PLATANUS OCCIDENTALIS	AMERICAN SYCAMORE	B&B	14' HT.	3" CAL.	SEE PLAN	FULL MATCHED SPECIMEN
MV	3	MAGNOLIA VIRGINIANA	SWEETBAY MAGNOLIA	B&B	8' HT.	2" CAL.	SEE PLAN	FULL MATCHED SPECIMEN
SHRUBS								
AP	6	AGARISTA POPULIFOLIA	FLORIDA LEUCOTHOE	B&B OR CONTAINER GROWN	36" HT/SP		SEE PLAN	FULL MATCHED SPECIMEN
MC	9	MYRICA CERIFERA	WAX MYRTLE	B&B OR CONTAINER GROWN	36" HT/SP		SEE PLAN	FULL MATCHED SPECIMEN
IV	6	ILEX VERTICILLATA 'RED SPRITE'	WINTERBERRY HOLLY	B&B OR CONTAINER GROWN	24" HT/SP		SEE PLAN	FULL MATCHED SPECIMEN
CAL	3	CALLICARPA AMERICANA	AMERICAN BEAUTYBERRY	B&B OR CONTAINER GROWN	24" HT/SP		SEE PLAN	FULL MATCHED SPECIMEN
ITV	10	ITEA VIRGINICA 'SARAH EVE'	VIRGINIA SWEETSPIRE	B&B OR CONTAINER GROWN	24" HT/SP		SEE PLAN	FULL MATCHED SPECIMEN
IP	9	ILLICUM PARVIFLORUM 'FLORIDA SUNSHINE'	ANISE TREE	B&B OR CONTAINER GROWN	24" HT/SP		SEE PLAN	FULL MATCHED SPECIMEN
VO	12	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	MRS. SCHILLER'S DELIGHT VIBURNUM	B&B OR CONTAINER GROWN	24" HT/SP		SEE PLAN	FULL MATCHED SPECIMEN
PERENNIALS								
SS	16	SCHIZACHYRIUM SCORARIUM	LITTLE BLUESTEM	1 GALLON	NA		SEE PLAN	FULL MATCHED SPECIMEN
CL	14	CHASMANTHIUM LATIFOLIUM	RIVER OATS	1 GALLON	NA		SEE PLAN	FULL MATCHED SPECIMEN
PV	16	PANICUM VIRGATUM 'SQUAW'	SWITCHGRASS	1 GALLON	NA		SEE PLAN	FULL MATCHED SPECIMEN
EP	20	EUTROCHIUM PURPUREUM 'BABY JOE'	DWARF JOE PYE WEED	1 GALLON	NA		SEE PLAN	FULL MATCHED SPECIMEN
CV	18	COREOPSIS VERTICILLATA 'MOONBEAM'	TICKSEED	1 GALLON	NA		SEE PLAN	FULL MATCHED SPECIMEN
AH	18	AMSONIA HUBRICHII	THREADLEAF BLUESTAR	1 GALLON	NA		SEE PLAN	FULL MATCHED SPECIMEN
SO	12	SYMPHOTRICHUM OBLONGIFOLIUM 'OCTOBER SKIES'	AROMATIC ASTER	1 GALLON	NA		SEE PLAN	FULL MATCHED SPECIMEN

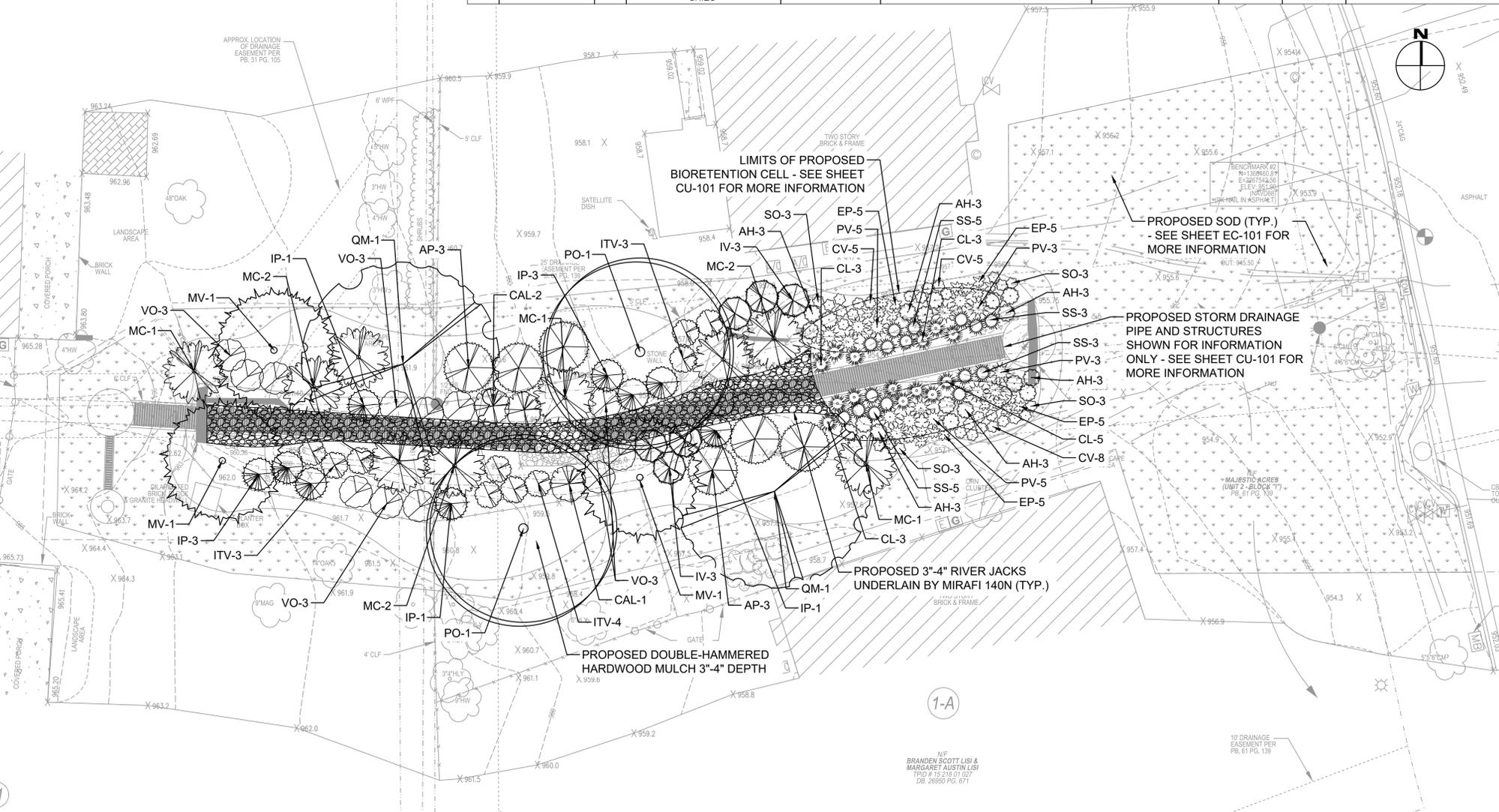
LANDSCAPE NOTES

1. SIZE, QUALITY AND OVERALL HEALTH OF ALL PLANT MATERIAL USED SHALL CONFORM TO THE LATEST EDITION OF "USA STANDARDS FOR NURSERY STOCK" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, INC.
2. ALL AREAS OUTSIDE OF PLANTING BEDS WITHIN LIMITS OF WORK/LIMITS OF DISTURBANCE TO BE PLANTED WITH SOD - SEE DETAIL ON EC-501 FOR MORE INFORMATION.
3. CONTRACTOR IS RESPONSIBLE FOR ALL PLANTS SHOWN ON PLANS. QUANTITIES ARE FOR CONVENIENCE ONLY. IF THERE IS A DISCREPANCY BETWEEN THE PLAN AND PLANT SCHEDULE, PLAN SHALL PREVAIL.
4. ALL CONSTRUCTION MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM WITH CITY OF AVONDALE ESTATES AND FULTON COUNTY STANDARDS.
5. CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO INSTALLATION AND NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF FIELD CONDITIONS WARRANT ADJUSTMENT OF PLANT MATERIALS.
6. NO TREES TO BE PLANTED WITHIN 15' OF ABOVE GROUND UTILITIES OR LIGHT POLES. LARGE MATURING TREES MUST BE A MINIMUM 25 FEET FROM OVERHEAD DISTRIBUTION OR TRANSMISSION LINES. COORDINATE PLANTINGS WITH THE PROPER POWER COMPANY IF NECESSARY. IF TREES CONFLICT WITH POWER LINES OR SIGNS NOTIFY LANDSCAPE ARCHITECT TO RESOLVE BEFORE PLANTING.
7. WITHIN PLANT BED AREAS CONTRACTOR IS RESPONSIBLE FOR THE VIABILITY OF ALL PERENNIAL PLANT MATERIAL FOR A MIN. PERIOD OF 90 DAYS AND ALL TREES AND SHRUBS FOR A MIN. PERIOD OF 1 YEAR AFTER ACCEPTANCE FROM OWNER BUT MAY ALSO BE BONDED FOR WARRANTY BY LOCAL ORDINANCE OR DEVELOPMENT CONDITIONS IN THE EVENT THAT LANDSCAPE MAINTENANCE IS PROVIDED BY ANOTHER CONTRACTOR, 90 DAY WARRANTY SHALL BE TRANSFERABLE TO MAINTENANCE CONTRACTOR.
8. CONTRACTOR SHALL REMOVE ALL LUMPS OF CLAY, STONES OVER 1" IN DIAMETER AND ALL COMPACTED SOIL OR CONSTRUCTION DEBRIS INCLUDING PAVEMENT, GRAVEL, ROOTS, LIMBS AND OTHER DELETERIOUS MATTER WHICH WOULD BE HARMFUL OR PREVENT PROPER ESTABLISHMENT AND/OR MAINTENANCE OF LAWN AND TREE PLANTING AREAS.
9. CONTRACTOR SHALL REPAIR (RESEED OR SOD) ANY LAWN AREAS DAMAGED DUE TO PLANT MATERIAL INSTALLATION.
10. CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING APPROPRIATE PARTIES AND ASSURING THAT ALL UTILITIES ARE LOCATED PRIOR TO CONSTRUCTION.
11. ALL STRAPPING AND TOP 1/3 OF WIRE BASKET MUST BE CUT AWAY AND REMOVED FROM ROOT BALL PRIOR TO BACK FILLING PLANTING PITS. REMOVE TOP 1/3 OF BURLAP FROM BALL.
12. FIELD ADJUSTMENTS TO PLANT MATERIAL AS NECESSARY BY OWNERS.
13. DEWBERRY ENGINEERS INC. IS NOT RESPONSIBLE FOR INSTALLATION OR DESIGN OF LIGHTING, FENCING, OR IRRIGATION. THE INSTALLATION REQUIREMENTS AND DESIGN IS THE RESPONSIBILITY OF THE CONTRACTOR.
14. CANOPY TREES SHALL BE MINIMUM OF 3" CALIPER AND HAVE A MINIMUM HEIGHT OF 14 FT FROM THE GROUND SURFACE AT THE TIME OF PLANTING. UNDERSTORY TREES SHALL BE A MINIMUM OF 2" CALIPER AND HAVE A MINIMUM HEIGHT OF 8 FT FROM THE GROUND SURFACE AT THE TIME OF PLANTING. EVERGREEN TREES SHALL BE A MINIMUM OF 3" CALIPER AND HAVE A MINIMUM OF 8 FT FROM THE GROUND SURFACE AT THE TIME OF PLANTING. EVERGREEN SHRUBS SHALL HAVE A MINIMUM HEIGHT OF 24" FROM THE GROUND SURFACE AT THE TIME OF PLANTING.

SOIL AMENDMENTS

ALL PLANTING BEDS/PLANTING PITS TO BE TILLED AT A MINIMUM OF 1'-0" DEPTH AND RECEIVE AN AMENDED TOPSOIL MIXTURE APPROPRIATE FOR GOOD PLANT GROWTH AND ADEQUATE DRAINAGE. SOIL MIXTURE SHALL BE COMPOSED OF A MINIMUM 20% GOOD GARDEN SOIL (3 1/2 PARTS GOOD GARDEN SOIL, 1/2 PART COMPOST OR ORGANIC MATTER, 1 POUND OF LIME PER CUBIC FOOT) OR RECOMMENDED SOIL AMENDMENTS AND SOIL COMPOSITE BASED UPON RECOMMENDATION FROM SOIL TESTS. A MINIMUM OF ONE SOIL TEST IS REQUIRED FOR THIS SITE.

12
NIP
TERRY DEAN GIAGER &
JEANNE HERRING GIAGER
1702 1/2 S 217 06 02
DB: 11965 PG. 312

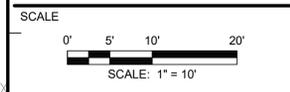


DEWBERRY ENGINEERS INC.
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Suite 102
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License No. PEF002398
Expires 6/30/2026

DUNWICK DRIVE PHASE II
STORMWATER CONVEYANCE
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REVISIONS
DRAWN BY _____ SG
APPROVED BY _____ SF
CHECKED BY _____ MH
DATE _____ 07/08/2024

LANDSCAPE PLAN AND DETAILS

PROJECT NO. 50169827

LS-001

SHEET NO.