

GENERAL NOTES:

ALL CONSTRUCTION SHALL BE IN CONFORMANCE TO THE CURRENT CITY OF BLOOMINGDALE DESIGN STANDARDS, SPECIFICATIONS AND DETAILS OR AS OTHERWISE ISSUED FOR THIS PROJECT. WHERE ANY CONFLICT EXISTS BETWEEN THESE PLANS AND/OR SPECIFICATIONS AND/OR CONSTRUCTION DETAILS AND THE CITY OF BLOOMINGDALE DESIGN STANDARDS, SPECIFICATIONS, DETAILS AND DEVELOPMENT ORDINANCE(S), THE CITY OF BLOOMINGDALE STANDARDS SHALL PREVAIL.

1. LAYOUT TO BE CONTROLLED BY EXISTING BENCHMARK.
2. DIMENSIONS TO CURB AND GUTTER ARE TO FACE OF CURB.
3. DIMENSIONS TO WALK ARE TO FACE OF WALK.
4. DIMENSIONS TO BUILDING ARE TO FACE OF BUILDING.
5. DIMENSIONS TO STRIPING IS TO CENTERLINE OF STRIPING.
6. ALL ANGLES ARE 90° UNLESS OTHERWISE NOTED.
7. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
8. BLUE METAL REFLECTIVE SIGN AT LEAST 12" IN WIDTH AND 18" IN LENGTH AND ERECTED AT 7' ABOVE GRADE IN SUCH MANNER SO AS TO BE CLEARLY VISIBLE TO THE PARKING VEHICLE. THE SIGN SHALL HAVE PRINTED IN WHITE LETTERS NOT LESS THAN ONE INCH IN HEIGHT ON THREE SEPARATE LINES AND CENTERED THE FOLLOWING WORDS: "PERMIT PARKING ONLY", "TOW-AWAY ZONE" AND "MAXIMUM FINE \$500.00". SUCH SIGNS SHALL ALSO DISPLAY THE SYMBOL FOR HANDICAP ACCESSIBILITY CENTERED BETWEEN THE SECOND AND THIRD LINES. VAN ACCESSIBLE SPACE SHALL HAVE ADDITIONAL SIGN WITH THE FOLLOWING WORDS: "VAN ACCESSIBLE".
9. TRAFFIC CONTROL DEVICES SHALL BE USED ON ALL WORK ON THIS PROJECT IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" CURRENT EDITION. THE COST TO COMPLY SHALL BE INCLUDED IN THE OVERALL COST OF THE PROJECT.
10. REFERENCE SURVEYS:
 - 10.1. BOUNDARY & TOPOGRAPHIC SURVEY - PREPARED BY SUNDIAL SURVEYING, LLC (12/01/15).
 - 10.2. VERTICAL DATUM: NAVD88 HORIZONTAL DATUM: NAD83
 - 10.3. PROJECT IS ON STATE PLANE COORDINATES.
 - 10.4. MAUPIN ENGINEERING, INC. DOES NOT ACCEPT ANY RESPONSIBILITY FOR ACCURACY OF PROVIDED SURVEY INFORMATION.
11. ONLY ABOVEGROUND, READILY VISIBLE STRUCTURES, UTILITIES AND SURFACE PAINT MARKINGS WERE LOCATED FOR THIS SURVEY. THIS SURVEYOR MAKES NO WARRANTY OR GUARANTEE AS TO THE LOCATION, EXISTENCE, OR NON-EXISTENCE OF ANY BELOWGROUND, NON-VISIBLE UTILITIES OR STRUCTURES. CONTRACTOR SHALL FIELD VERIFY LOCATION, TYPE, SIZE, MATERIAL AND GENERAL CONDITION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
12. ALL GRADED EARTH NOT OTHERWISE STABILIZED WITH BUILDING, PAVEMENT OR VEGETATION SHALL BE GRASSED OR SODDED.
13. OWNER SHALL ACCEPT MAINTENANCE OF THE STORM DRAINAGE SYSTEM, INCLUDING ROOF DRAIN CONNECTIONS, WITHIN THE LIMITS OF THE PROPERTY. CITY OF POOLER WILL NOT MAINTAIN THE STORM DRAINAGE SYSTEM WITHIN THE PROPERTY. THIS SITE IS DESIGNED TO DISCHARGE STORM WATER RUNOFF INTO THE APPROVED MASTER DRAINAGE CONVEYANCE AND DETENTION SYSTEM.
14. ADJUST EXISTING MANHOLE FRAMES, GRATES AND VALVE BOXES TO GRADE AS NEEDED.
15. ALL STORM DRAIN PIPE JOINTS SHALL BE WRAPPED WITH FILTER FABRIC.
16. MATCH EXISTING PAVEMENT GRADE ELEVATIONS WHERE CONNECTING TO EXISTING PAVEMENT.
17. FILL BENEATH BUILDINGS SHALL BE COMPACTED IN ACCORDANCE WITH BUILDING STRUCTURAL SPECIFICATIONS.
18. CONTRACTOR TO FIELD VERIFY DURING CONSTRUCTION ANY EXISTENCE OF SUB-SURFACE DEBRIS OR ORGANIC MATERIAL. ANY SUB-SURFACE DEBRIS OR ORGANIC MATERIAL FOUND SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 2' BELOW GRADED AGGREGATE BASE IN PAVEMENT AREAS AND 2' BELOW BOTTOM OF FOOTINGS FOR BUILDINGS (CONTRACTOR SHALL CONSULT WITH BUILDING STRUCTURAL ENGINEER FOR ANY WORK BENEATH OR ADJACENT TO BUILDING AND/OR ABOVE OR BELOW GRADE STRUCTURES). IF EXCESSIVE DEBRIS OR ORGANIC MATERIAL IS FOUND, ENGINEER SHALL BE CONTACTED FOR INSPECTION. REMOVAL OF INSPECTED MATERIAL SHALL BE DIRECTED BY THE ENGINEER.
19. IF A RIGHT-OF-WAY ENCROACHMENT PERMIT MUST BE OBTAINED, AND IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN SUCH PERMIT.
20. THE CITY OF BLOOMINGDALE STORM WATER DEPARTMENT RESERVES THE RIGHT TO ACCESS PROPERTY TO INSPECT STORM WATER FACILITIES AT ANY TIME.
21. CHLORINATED, DISINFECTED WATER SHALL NOT BE DISCHARGED INTO THE STORM WATER SYSTEM.
22. TRAFFIC CONTROL AND FLOW SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
23. A MINIMUM SEPARATION OF 10 FEET SHALL BE MAINTAINED BETWEEN ALL INSTALLED OR RELOCATED UTILITIES AND LARGE AND MEDIUM TREES.
24. ANY AND ALL STREET LIGHTING, LANDSCAPE, SIDEWALK AND ACCESSIBILITY REQUIREMENTS TO BE PERFORMED, DESIGNED AND/OR CONSTRUCTED SHALL BE COORDINATED WITH CIVIL ENGINEER.
25. CONTRACTOR SHALL REFER TO ARCHITECTURAL AND/OR MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR THE ROOF DRAIN SYSTEM. COLLECTION AND DISCHARGE SHALL BE COORDINATED WITH CIVIL ENGINEER.
26. SITE CIVIL PLANS SHALL TERMINATE 5' FROM BUILDING FACE UNLESS OTHERWISE NOTED. CONTINUATION OF WATER, SANITARY SEWER AND STORM DRAINAGE LATERALS SHALL BE COORDINATED WITH BUILDING CONTRACTOR IN ACCORDANCE WITH ARCHITECTURAL AND/OR MECHANICAL, ELECTRICAL AND PLUMBING PLANS.
27. THE OWNER, OWNER'S REPRESENTATIVES, CITY OF BLOOMINGDALE AND OTHER REGULATORY AGENCIES SHALL HAVE THE RIGHT TO ACCESS THE SITE AT ANY TIME FOR PURPOSES OF OBSERVING WORK PERFORMED.
28. ALL UTILITIES ARE SHOWN AS APPROXIMATE ON THE PLANS AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR. SOME UTILITIES AND SERVICE LINE LOCATIONS ARE UNKNOWN AND NOT SHOWN ON THE PLANS. THIS DOES NOT RELIEVE THE CONTRACTOR FROM HIS RESPONSIBILITY TO PROTECT EXISTING UNDERGROUND FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A VALID UTILITY LOCATE TICKET FROM THE GEORGIA UTILITIES PROTECTION CENTER (811 / 800-282-7411), AND COORDINATION WITH OTHER SUCH LOCAL UTILITIES AS MAY BE REQUIRED.

29. THE CONTRACTOR WILL PROTECT ALL TREES NOTED TO REMAIN WITHIN AND ADJACENT TO THE CONSTRUCTION ZONE. ANY UNAUTHORIZED REMOVAL OF TREES NOTED TO REMAIN WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REESTABLISH TO THE SATISFACTION OF THE ENGINEER.
30. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL BORROW MATERIAL NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT. ALL BORROW MATERIAL SHALL BE CLEAN AND FREE OF DEBRIS AND ORGANIC MATERIAL AND SUFFICIENT TO COMPACT TO A MINIMUM BEARING CAPACITY OF 2,500PSF OR AS OTHERWISE SPECIFIED.
31. ALL ITEMS DEMOLISHED FROM THE SITE ARE THE PROPERTY OF THE CONTRACTOR UNLESS THEY ARE TO BE REUSED ON THE SITE OR OTHERWISE NOTED. NO BURYING OF DEBRIS WILL BE ALLOWED ON THIS SITE. BURNING WILL BE ALLOWED, HOWEVER CONTRACTOR MUST ACQUIRE ALL NEEDED PERMITS TO PERFORM BURNING ON-SITE.
32. SPOIL MATERIAL WILL BE DISPOSED OF ON-SITE AREAS WILL BE IDENTIFIED BY THE OWNER DURING CONSTRUCTION FOR THE DISPOSAL OF EXCESS FILL FROM THE CONSTRUCTION.

GENERAL DEVELOPMENT NOTES:

1. PIN: 1-0360-02-006-007
ADDRESS: 2304 Norwood Ave
Savannah, Ga
2. TOTAL LAND ACREAGE (GROSS) = 7.22(±) AC
TOTAL DISTURBED ACREAGE = 7.12(±) AC

ASPHALT AREA = 0.74(±) AC
NET LAND ACREAGE = 6.48(±) AC
PROPOSED GREEN SPACE = 3.15 (±) AC (44%)

EXISTING USE OF PROPERTY : HORSE STABLES
PROPOSED USE OF PROPERTY : SUBDIVISION

PRESENT SITE ZONING : R-2/EO
3. **REQUIRED:**
TREE QUALITY POINTS (TQP) = 7.12ac * 1,600 = 11,392 TQP
LANDSCAPE QUALITY POINTS (LPQ) = 7.12 * 400 = 2,842 LQP

PROVIDED:
TREE SAVE #1 70° X 1.5 = 7,350TQP

PROPOSED LANDSCAPE QUALITY POINTS TO BE DETERMINED BY LANDSCAPE PLAN
4. PROPERTY IS LOCATED IN ZONE X(500), A SPECIAL FLOOD HAZARD AREA AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP # 13051C0277F, DATED 9/26/2008
5. THE SITE IS SERVED BY THE WATER UTILITY MANAGEMENT SYSTEM AND THE CHATHAM COUNTY SANITARY SEWER SYSTEM..
6. COMMON AREAS
AREAS OUTSIDE OF R.O.W & LOTS = 0.33AC (5%)

PRIVATE R.O.W. = 1.44AC (20%)

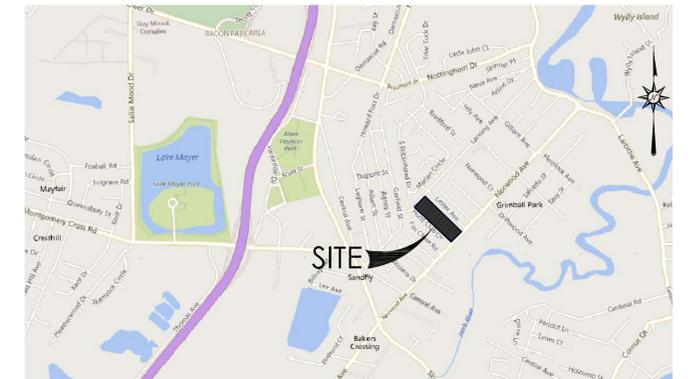
TOTAL COMMON AREA = 77,495SF = 1.78AC (25%)

Norwood Stables Specific Development Plan

MEI Proj #755-17-01 Plan Date: 7/16/18

PREPARED FOR:

DEVELOPMENT ASSOCIATES, INC.
Guy Davidson
17 Park of Commerce Blvd. Suite 105
Savannah, GA 31405
912.944.4410
gdp@daicommercial.com



VICINITY MAP



114 WEST 42ND STREET • SAVANNAH, GA 31401
O: 912 235 2915

SHEET INDEX

C0	COVER - NOTES
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C2	EXISTING CONDITIONS/DEMOLITION PLAN
C3	STAKING PLAN
C4	UTILITY PLAN
C5	GRADING PLAN
C6	LANDSCAPING PLAN
C7A	EROSION CONTROL PLAN - INITIAL
C7B	EROSION CONTROL PLAN - INTERMEDIATE
C7C	EROSION CONTROL PLAN -FINAL
P1-P2	PROFILES
D1-D4	DETAILS

REVISIONS		
NO.	DATE	DESCRIPTION

THIS SET IS RELEASED FOR PERMITTING 7/16/18



CONTRACTOR IS REQUIRED TO CALL AT LEAST 3 DAYS PRIOR TO START OF CONSTRUCTION

Tree Legend
 Size of Symbol Does Not Indicate
 The Size of the Drip Line/Canopy Line

Location of Tree 14LO
 Tree Type
 Tree Size (in inches)

Tree Type Abbreviations:
 LO Live Oak
 WO Water Oak
 PN Pine
 PLM Palmetto
 MAG Magnolia
 CED Cedar

All Others Spelled Out

TW Indicates Twin Base/Common Base
 TRIP Indicates Triple Base/Common Base
 DIS Indicates Diseased/Damaged Tree
 Dead Trees Not Located

Legend

Abbreviations
 DB Pg. Deed Book / Page
 PRB Pg. Plat Record Book / Page
 SMB Pg. Subdivision Map Book / Page
 CMF Concrete Monument Found
 IPF Iron Pipe Found
 IRF Iron Rebar Found
 PIN Property Identification Number
 R/W Right of Way
 FF Finish Floor Elevation
 NAVD88 North American Vertical Datum of 1988
 IE Invert Elevation

Linetypes

X Fence Line
 --- Property Line
 --- Building Setback Line
 --- Easement Line
 --- OHL Overhead Lines
 --- SS Sanitary Sewer Line
 --- S Storm Drain Line
 --- T Underground Telephone/Cable Line
 --- W Water Line
 --- G Gas Line

Symbols

PP Power Pole / Utility Pole
 TJB Telephone Junction Box
 WMH Water Manhole
 SSMH Sanitary Sewer Manhole
 GI Grate Inlet
 X 7.7 Spot Elevation (Ground)
 X 7.77 Spot Elevation (Pavement)

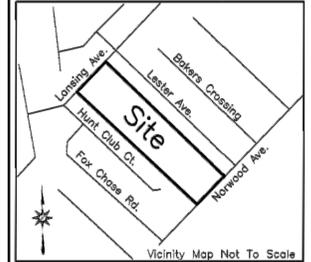
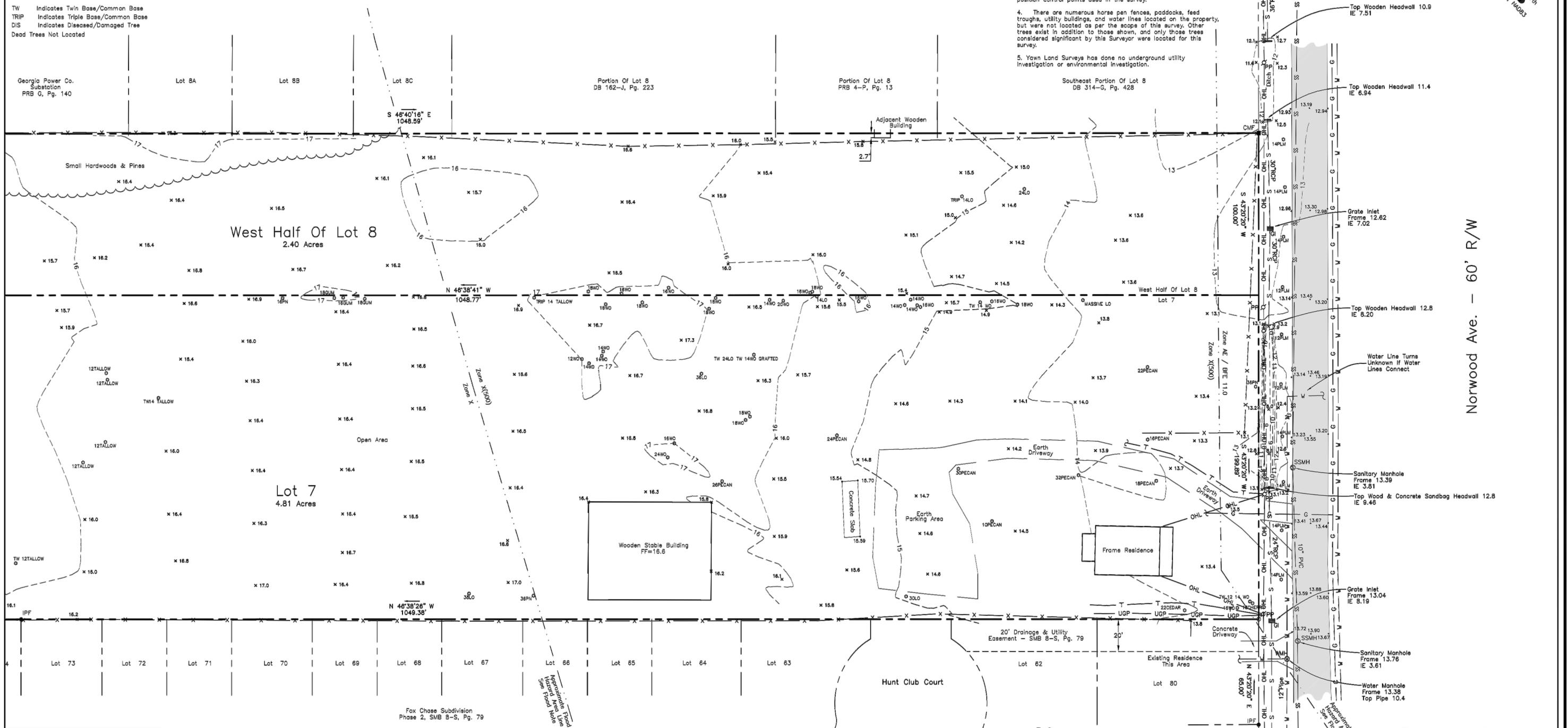
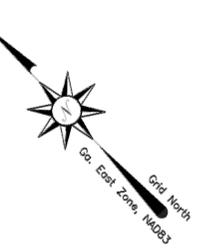


STATE LAW REQUIRES
 72 HRS. NOTICE
 1-800-282-7411

Building Setbacks, Buffers and Easements Note
 The building setback lines, easements, and/or buffers, if shown hereon, have been taken from plats of record. It shall be the responsibility of the user of this drawing to verify any and all building setback lines, easements and buffers with the proper municipal authorities before beginning the design or construction of improvements to the site. This Surveyor and this Firm assumes no responsibility or liability for the design, placement, staking, positioning or layout of any proposed structure or improvement to the site.

Surveyor's Notes

- Only aboveground, readily visible structures and utilities were located for this survey. This Surveyor makes no warranty or guarantee as to the location, existence, or non-existence of any below ground, non-visible utilities or structures. Underground utilities as shown represent the location of surface markings established by Roy Rowland, utility locator.
- The field data upon which this drawing is based has a closure precision of 1 foot in 54,832 feet, an angular error of 0.2 seconds per station, and was adjusted with the compass rule. The plat has been checked for closure, and has been found to have a closure precision of 1 foot in 667,585/446,525 feet. A 5 second robotic total station was used to determine the angular and linear measurements that form the basis of this plat.
- The bearings as shown on this drawing are based on the Georgia State Plane Coordinate System, East Zone, NAD83. A Topcon GR3 dual frequency GPS receiver using differential corrections obtained from the EOPRS RTK network was used to position control points used in the survey.
- There are numerous horse pen fences, paddocks, feed troughs, utility buildings, and water lines located on the property, but were not located as per the scope of this survey. Other trees exist in addition to those shown, and only those trees considered significant by this Surveyor were located for this survey.
- Yawn Land Surveys has done no underground utility investigation or environmental investigation.



To the best of my knowledge and belief, this plat has been prepared in conformity with the Technical Standards for Property Surveys in Georgia as set forth in Chapter 180-7 of the Rules of the Georgia Board of Registration for Professional Engineers and Land Surveyors and as set forth in the Georgia Plat Act, O.C.G.A. 15-6-67

Yawn Land Surveys, LLC
 Dale E. Yawn, L.S.
 24 Island Creek Lane
 Savannah, Ga. 31410
 912-997-6307
 yawn2510@allsouth.net
 LSF #000907



Flood Note
 According to the Flood Insurance Rate Maps, as prepared by the Federal Emergency Management Agency, a portion of this property lies in a flood hazard area as shown thereon. (Community Panel No. 1305100277F, Zone AE, Base Flood Elevation 11.0, Map Date 09/28/08). It shall be the responsibility of the user of this drawing to verify the Flood Zone and Base Flood Elevation with the proper municipal authorities before commencing the design and construction of improvements to the site. The user is also cautioned that there is a 1 foot freeboard requirement above the Base Flood Elevation as mandated by Chatham County/City of Savannah.
 This opinion is not a certification of flood hazard status, but is an interpretation of the referenced map and public data. If the exact location or elevation(s) of flood hazard boundaries are necessary, a more detailed study may be needed. This Surveyor and this Firm assumes no responsibility or liability for the accuracy of the referenced map or public data.

Special Notes

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- The term "Certification" as used in Rule 180-6-09(2) and (3) and relating to professional land surveying services as defined in O.C.G.A. 43-15-2(8) and (11) shall mean a signed statement based upon facts and knowledge known to the registrant, and is not a guarantee or warranty, either expressed or implied.
- This survey complies with both the rules of the Georgia Board of Registration for Professional Engineers and Land Surveyors and the Official Code of Georgia (O.C.G.A.) 15-6-67, in that where a conflict exists between those two sets of specifications, the requirements of law prevail.

Reference

- Plat recorded at Map Book 1, Pg. 115.
- Deed recorded at DB 367-A, Pg. 454.

Property Information

Lot 7
 Street Address: 2304 Norwood Ave.
 Current Zoning: R-2/EO
 Tax Assessor's Property Identification Number: 1-0360-02-008

West Half Of Lot 8
 Street Address: 2310 Norwood Ave.
 Current Zoning: R-2/EO
 Tax Assessor's Property Identification Number: 1-0360-02-007

Topographic Survey
 Lot 7, And The West Half Of Lot 8
 Norwood Manor Subdivision
 Located In The 5th G.M. District
 Chatham County, Georgia

Prepared For:
Development Associates, Inc.

Drawing Date: June 26, 2017
 Field Survey Date: June 23, 2017
 Revised July 10, 2017
 Sheet 1 of 2

PR-SDP-Norwood-Lot8.dwg

Tree Legend
 Size of Symbol Does Not Indicate
 The Size of the Drip Line/Canopy Line

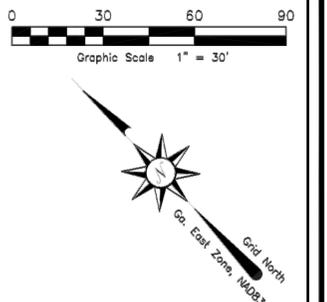
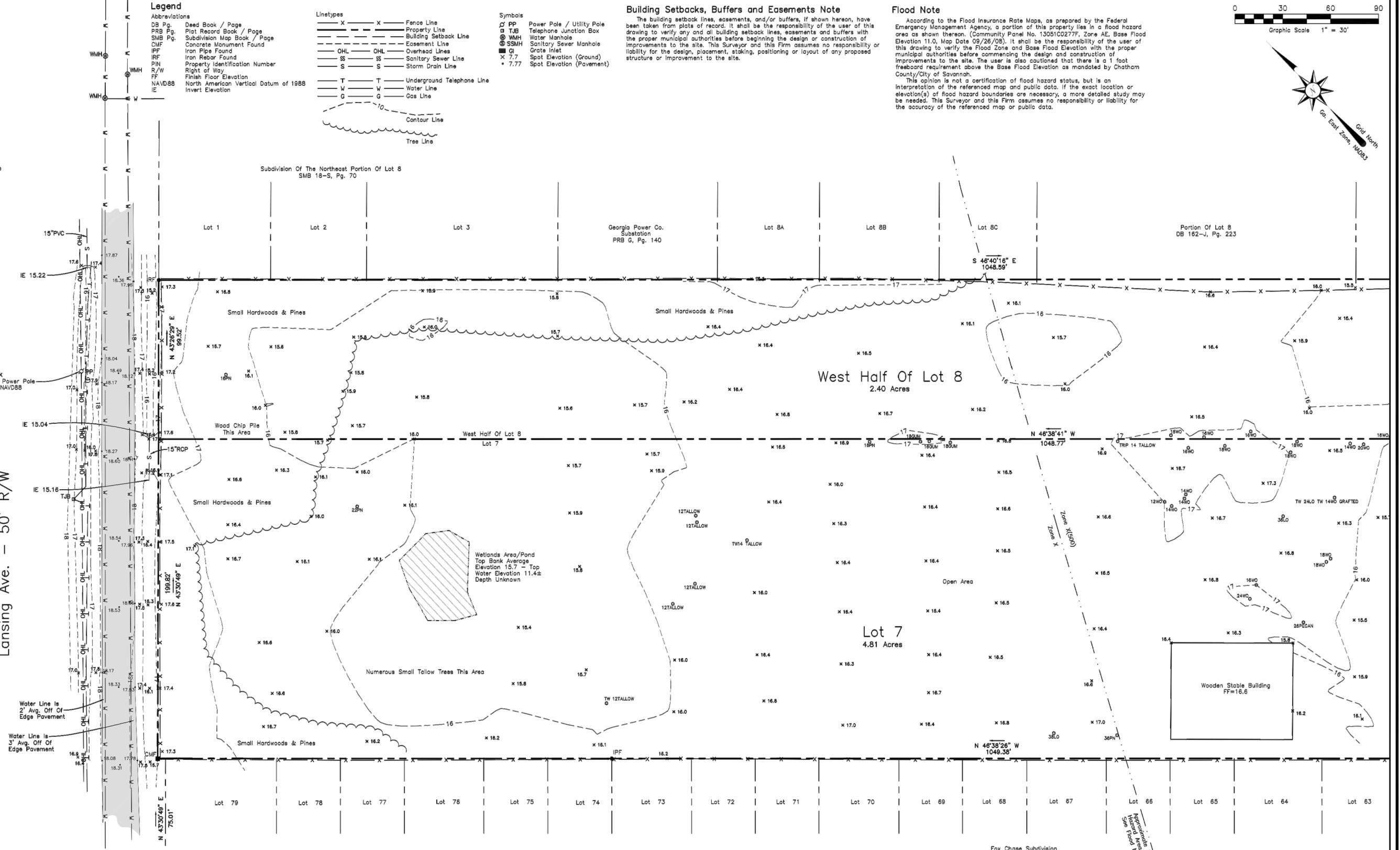
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 Tree Size (In Inches)

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Legend

Abbreviations
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 SMB Pg. Subdivision Map Book / Page
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 IPF Iron Pipe Found
 IRF Iron Rebar Found
 PIN Property Identification Number
 R/W Right of Way
 FF Finish Floor Elevation
 NAVD88 North American Vertical Datum of 1988
 IE Invert Elevation

Linetypes
 X Fence Line
 --- Property Line
 --- Building Setback Line
 --- Easement Line
 --- OHL Overhead Line
 --- SS Sanitary Sewer Line
 --- S Storm Drain Line
 --- T Underground Telephone Line
 --- W Water Line
 --- G Gas Line
 --- Contour Line
 --- Tree Line

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 WMH Water Manhole
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 GI Grate Inlet
 7.7 Spot Elevation (Ground)
 7.77 Spot Elevation (Pavement)

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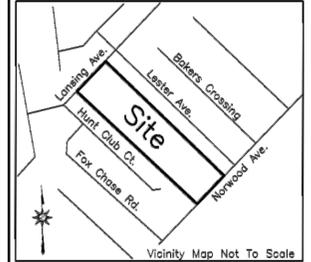
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 Chatham County, Georgia

Prepared For:
Development Associates, Inc.

Drawing Date: June 26, 2017
 Field Survey Date: June 23, 2017
 Revised July 10, 2017

Sheet 2 of 2



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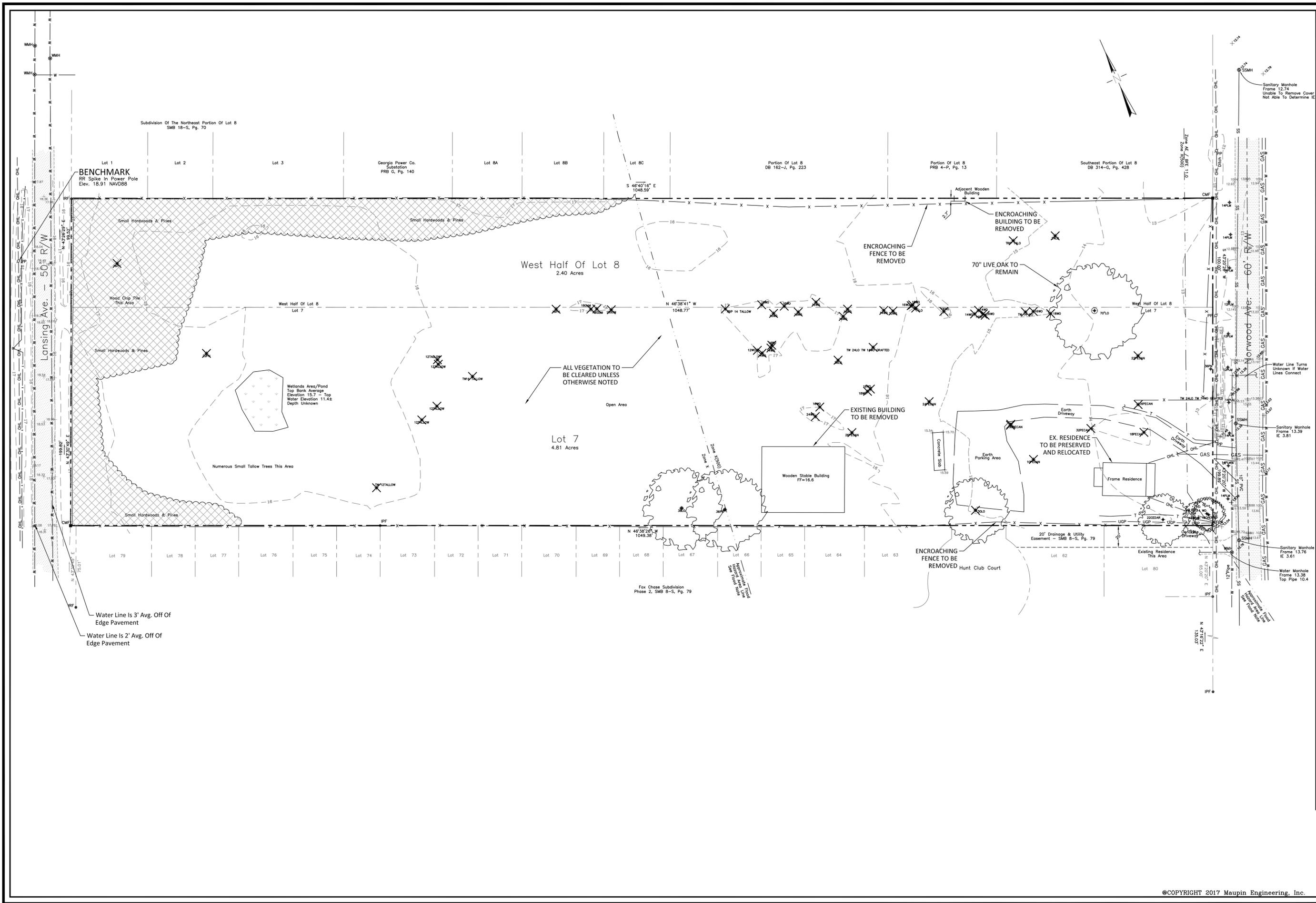
Yawn Land Surveys, LLC
 Dale E. Yawn, L.S.
 24 Island Creek Lane
 Savannah, Ga. 31410
 912-837-8307
 yawn2510@bellsouth.net
 LSF #000907



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PR-SDP-Norwood-Loss.dwg



REVISIONS NO.	DATE	DESCRIPTION

MAUPIN[™]
engineering

114 WEST 42ND STREET • SAVANNAH, GA 31401
O: 912 235 2915

EXISTING CONDITIONS & DEMOLITION PLAN
Norwood Stables

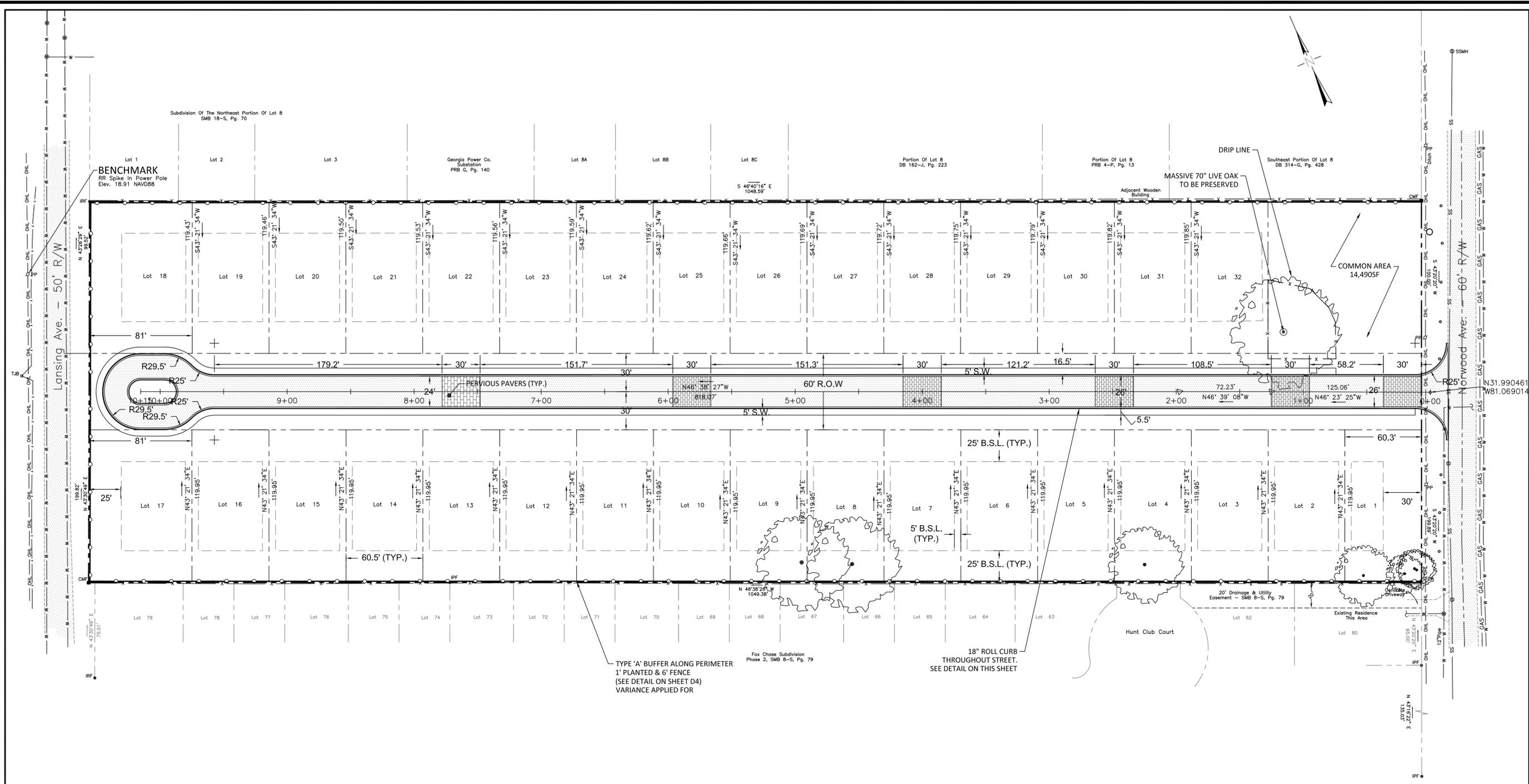


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DRWN: ADD 7-16-2018
CHK'D: JAM DATE

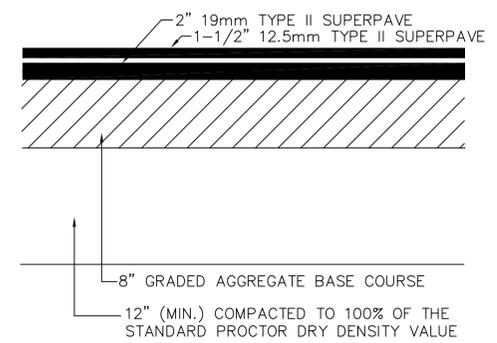
SCALE: 1" = 40'

SHEET NO. **C.2**
755-17-01

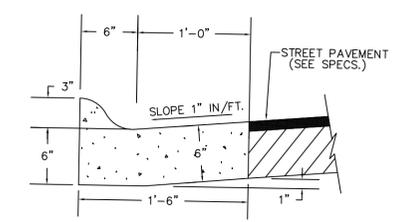


TYPE 'A' BUFFER ALONG PERIMETER
1' PLANTED & 6' FENCE
(SEE DETAIL ON SHEET D4)
VARIANCE APPLIED FOR

18" ROLL CURB
THROUGHOUT STREET.
SEE DETAIL ON THIS SHEET



HEAVY DUTY ASPHALT (PRIVATE)
NOT TO SCALE



ROLL CURB
NOT TO SCALE

REVISIONS NO.	DATE	DESCRIPTION



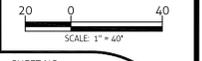
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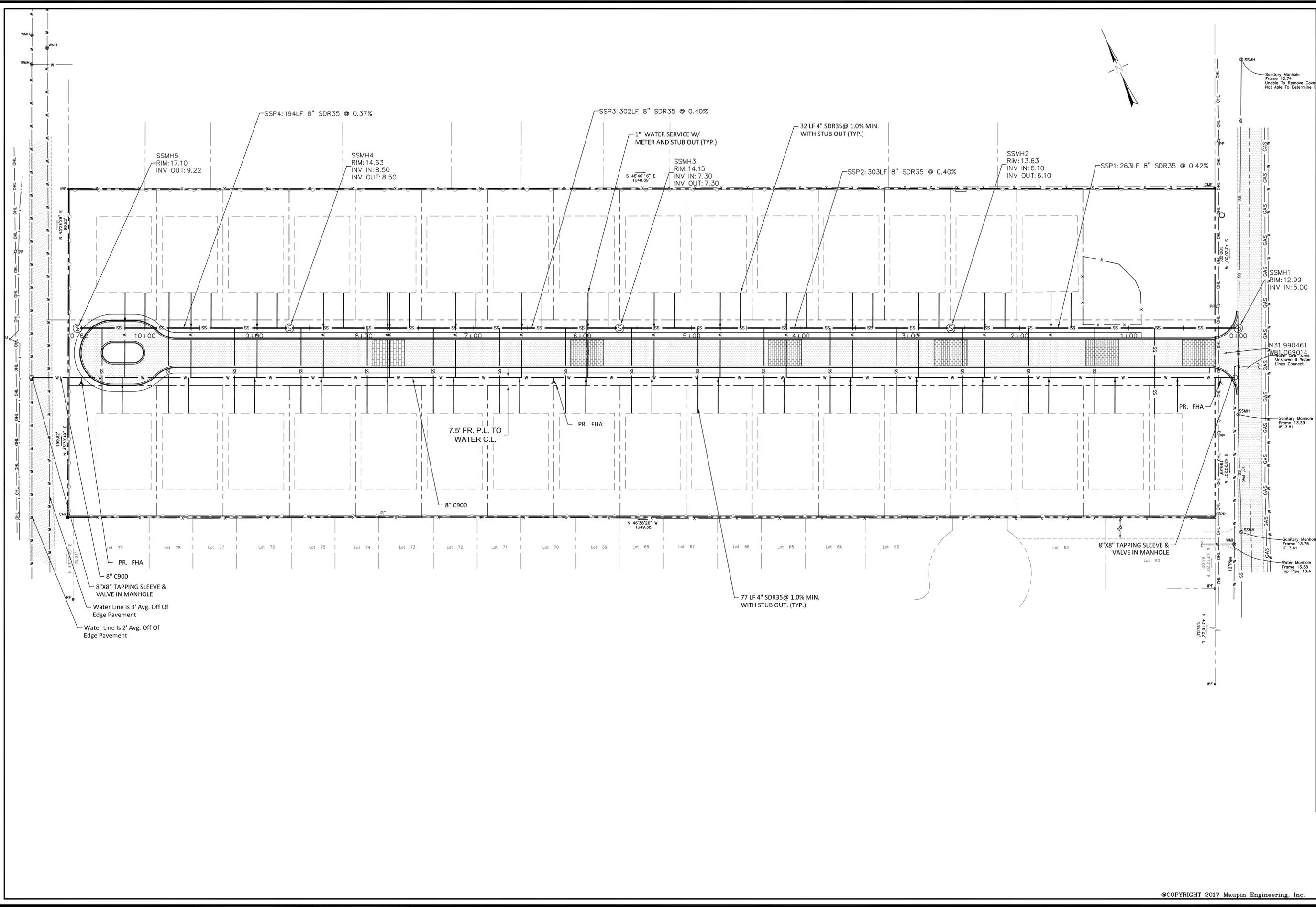
STAKING PLAN
Norwood Stables



STATUS: **RELEASED FOR PERMITTING**

DRWN: ADD 7-16-2018
CHK'D: JAM DATE





NO.	DATE	DESCRIPTION

MAUPIN[™]
engineering

114 WEST 42ND STREET • SAVANNAH, GA 31401
O: 912 235 2915

UTILITY PLAN
Norwood Stables



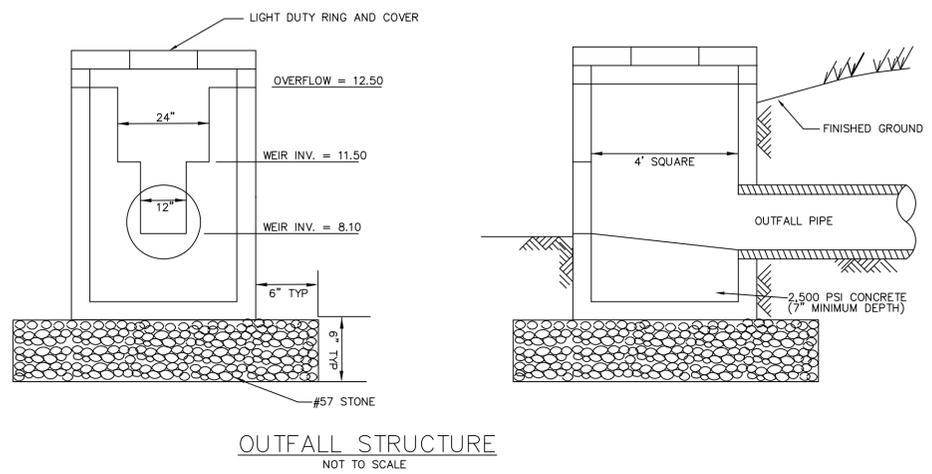
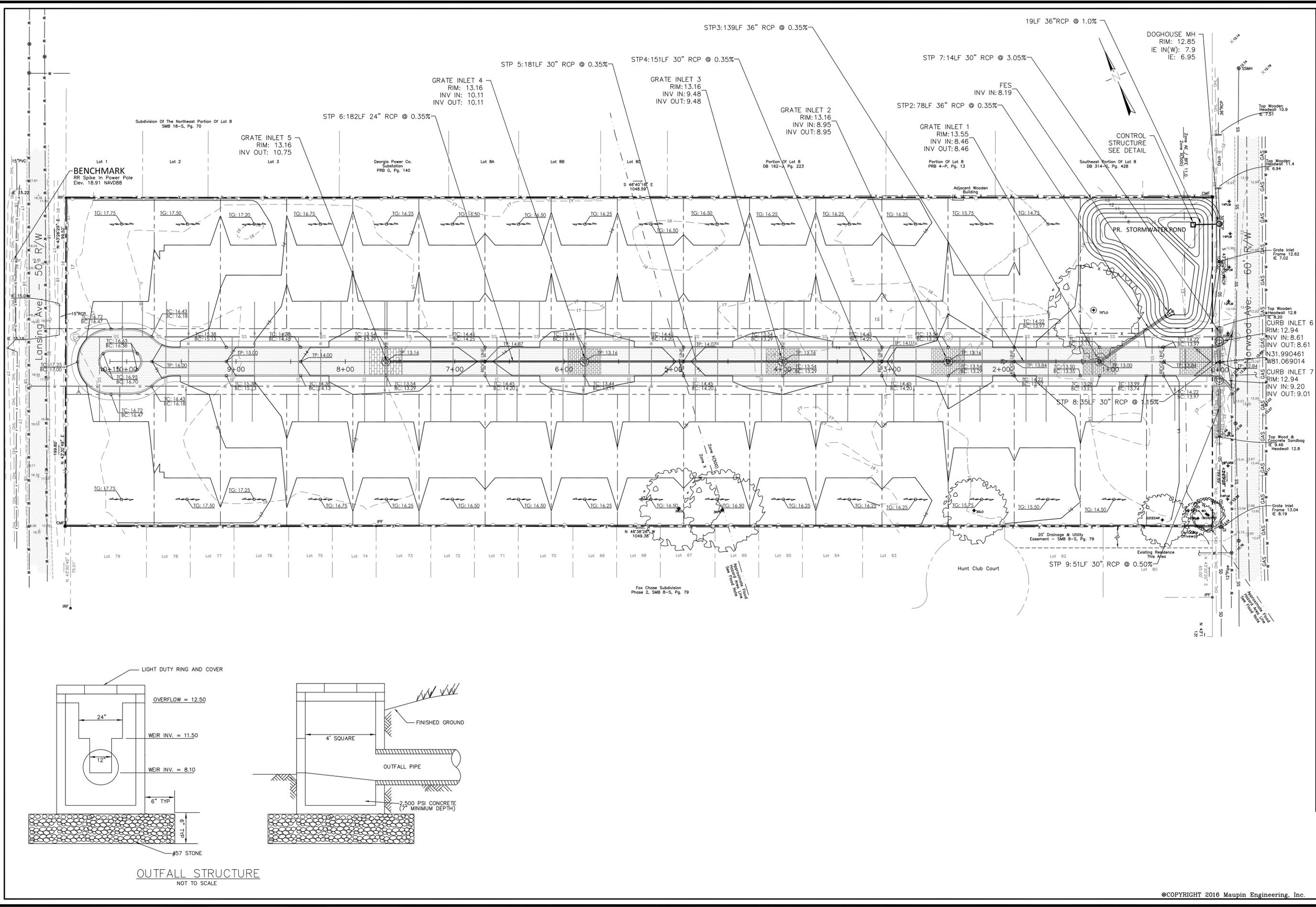
STATUS: **RELEASED FOR PERMITTING**

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SCALE: 1" = 40'

SHEET NO. **C.4**
755-17-01

PR-SDP-Norwood-Lots.dwg



NO.	DATE	DESCRIPTION

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GRADING PLAN
Norwood Stables

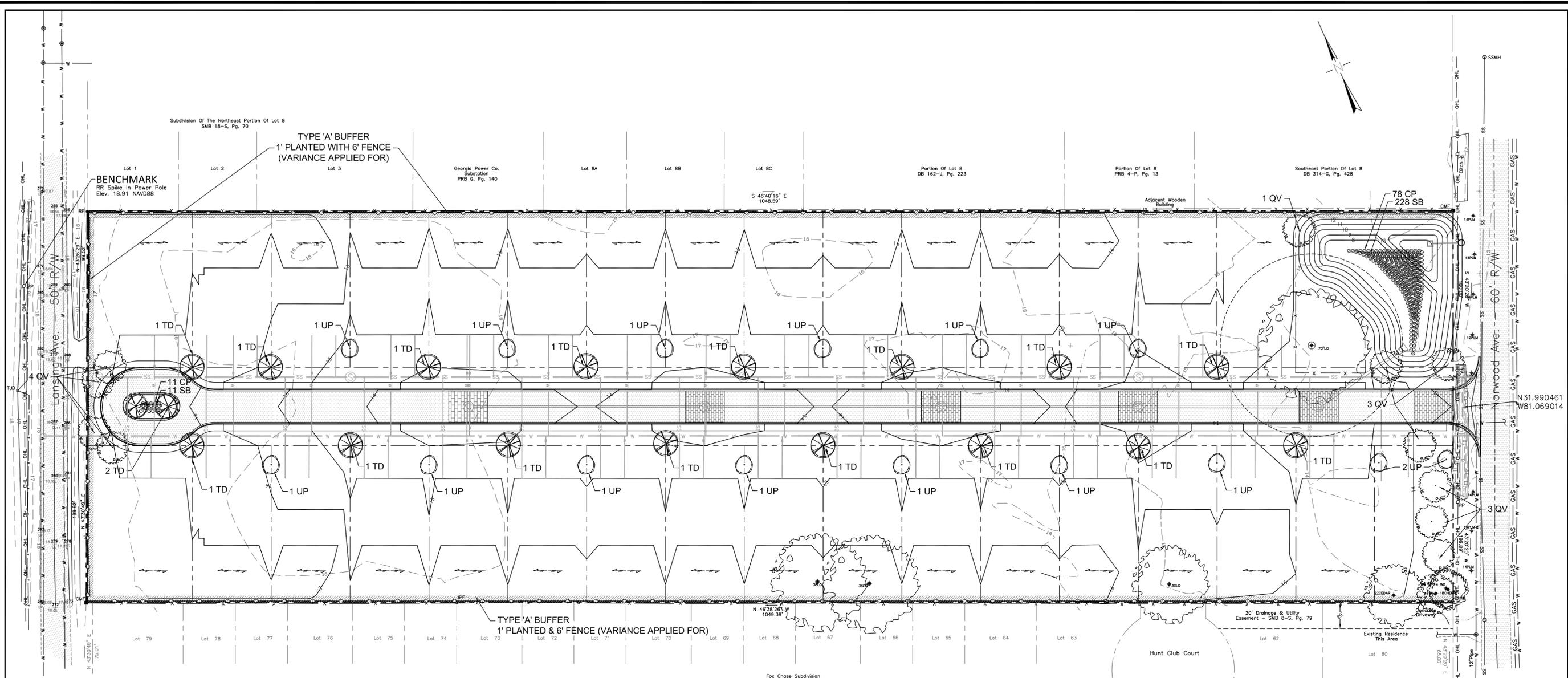


STATUS: **RELEASED FOR PERMITTING**

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SCALE: 1" = 40'

SHEET NO. **C.5**
755-17-01

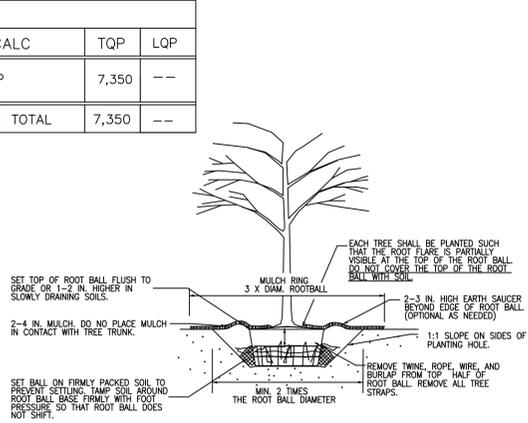


Landscape Requirement Calculations		
Total Parcel Area, TA	7.22	Acres
Greenspace	3.15(44%)	Acres (%)
Building Coverage (108,800sf)	35.0	(%)
Parking Area, PA	1.54	Acres
Easement Area	0.00	Acres
Net Parcel Area, TAn	7.22	Acres
TQP Required (TAn * 1,600)	11,552	TQP
LQP Required (TA * 400)	2,888	LQP
TQP Preserved	7,350	TQP
LQP Preserved	---	TQP
TQP Provided	11,670	TQP
LQP Provided	---	TQP

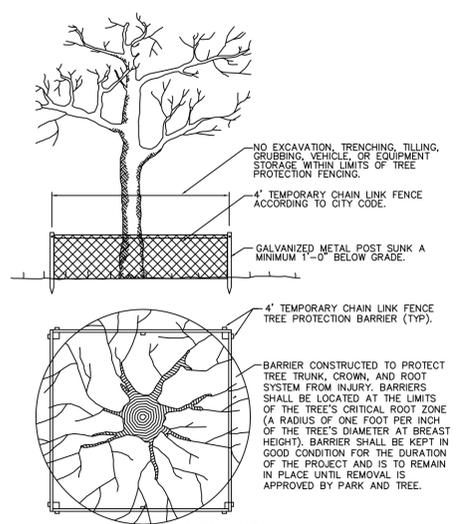
TREES PRESERVED				
SIZE	COMMON NAME	RETENTION CALC	TQP	LQP
70"	MASSIVE LIVE OAK	70 ² * 1.5RTP	7,350	---
TOTAL			7,350	---

BIO RETENTION SCHEDULE							
ITEM	SCIENTIFIC NAME	COMMON NAME	QTY	SIZE	SPACING	TQP	LQP
CP	CYPERUS PAPYRUS	PAPYRUS	546	1 GAL.	AS SHOWN	---	---
SB	SPARTINA BAKERI	SAND CORDGRASS	552	1 GAL.	AS SHOWN	---	---

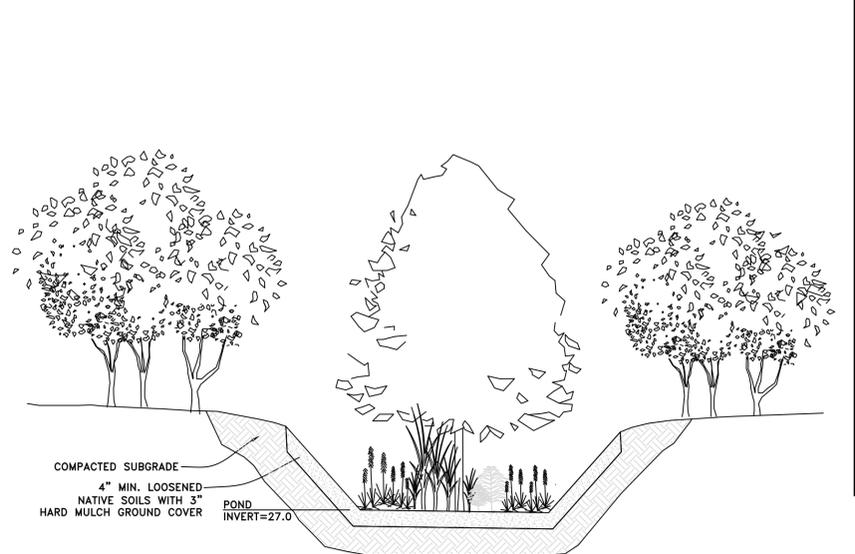
TREE PLANTING SCHEDULE							
UP	ULMUS PARVIFOLIA	DRAKE ELM	15	2" CALIPER.	AS SHOWN	1,350	---
QV	QUERCUS VIRGINIANA	LIVE OAK	11	2.5" CALIPER.	AS SHOWN	990	---
TD	TAXODIUM DISTICHUM	BALD CYPRESS	18	2.5" CALIPER.	AS SHOWN	1,620	---
TOTAL			4,320	---	---	---	---



Tree Planting NTS



Tree Protection NTS



BIO-RETENTION SECTION NOT TO SCALE

REVISIONS NO.	DATE	DESCRIPTION

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LANDSCAPING PLAN
Norwood Stables

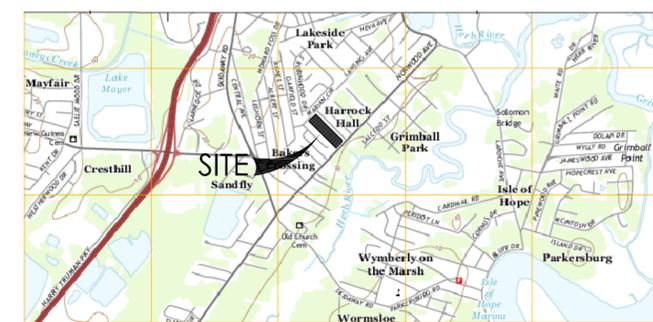
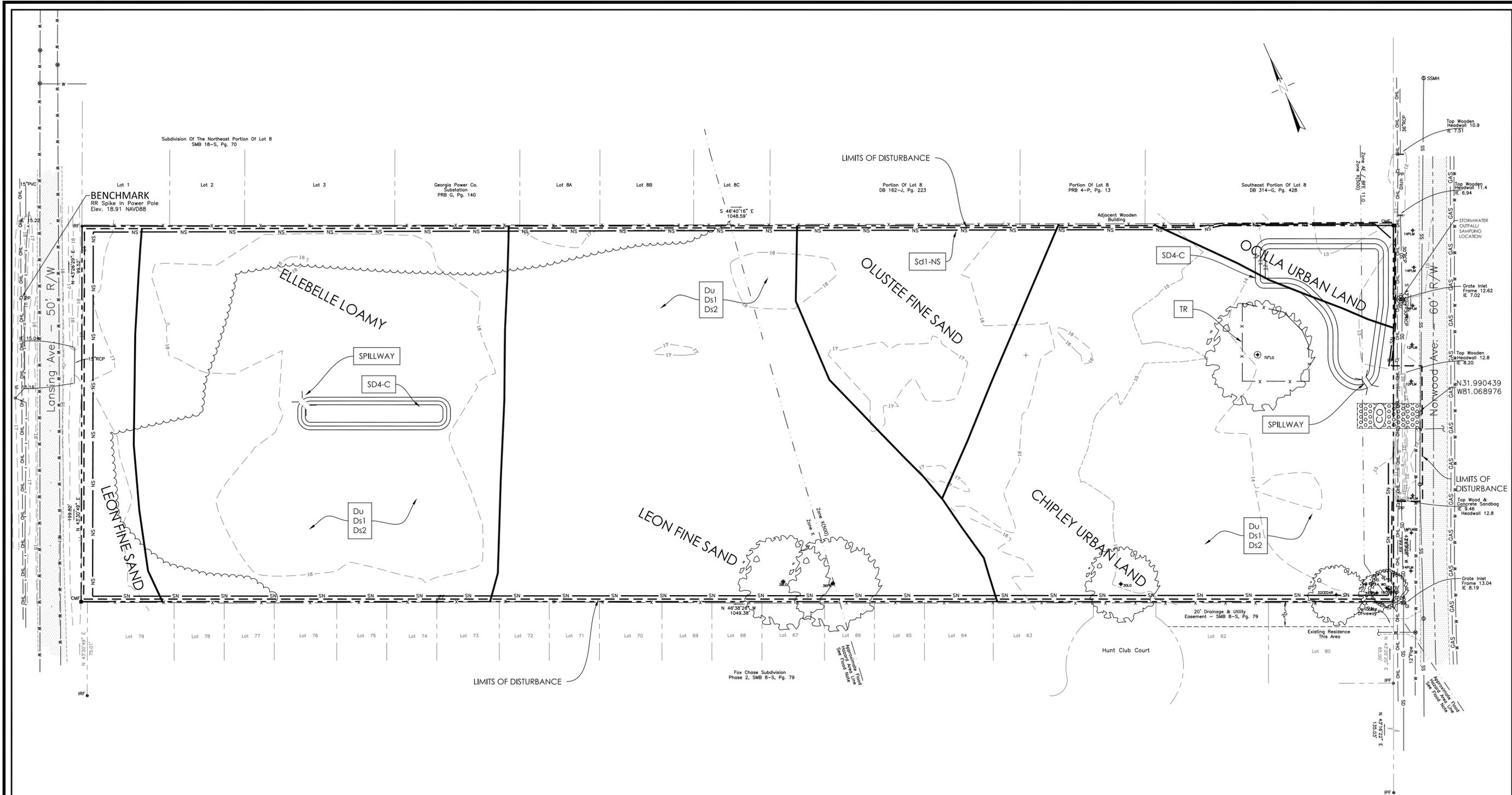


STATUS: RELEASED FOR PERMITTING

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SHEET NO. **C.6**
755-17-01



USGS QUAD - CHATHAM COUNTY - ISLE OF HOPE

REVISIONS NO.	DATE	DESCRIPTION

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SEDIMENT AND EROSION CONTROL PLAN - INITIAL

Norwood Stables

LEVEL II E&S

GEORGIA REGISTERED PROFESSIONAL ENGINEER
No. 23758
WAY A. MAUPIN

CERT.#21051 EXP:10/31/2018
STATUS: **RELEASED FOR PERMITTING**

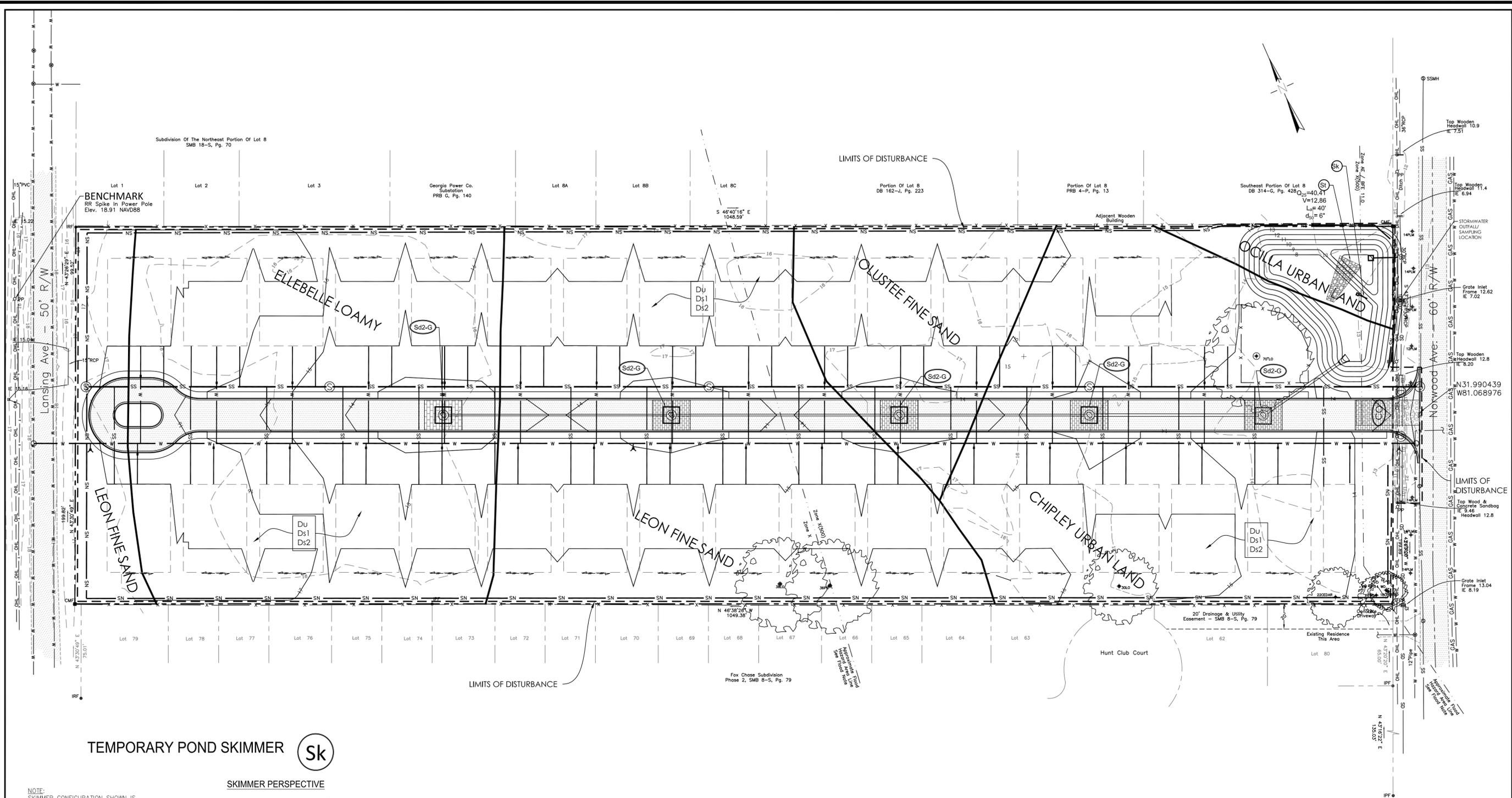
DRWN: ADD 7-16-2018
CHK'D: JAM DATE

SCALE: 1" = 40'

SHEET NO.

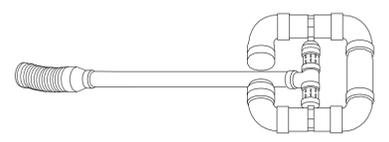
C.7a

755-17-01



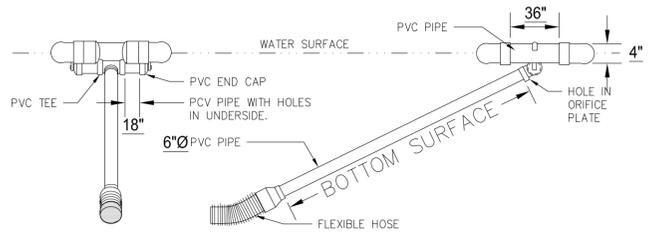
TEMPORARY POND SKIMMER (Sk)

SKIMMER PERSPECTIVE



SKIMMER FRONTAL SECTION VIEW

SKIMMER SIDE SECTION VIEW



NOTE: SKIMMER CONFIGURATION SHOWN IS TYPICAL. THE DESIGNER/ENGINEER MAY SUBMIT AN ALTERNATE SKIMMER DETAIL FOR REVIEW.

SEEDING RATES FOR TEMPORARY & PERMANENT COVER

MONTH	TEMPORARY COVER	RATES PER ACRE	MONTH	PERMANENT COVER	RATES PER ACRE
MARCH-JUNE	COMMON BERMUDA (HULLED) & WEEPING LOVEGRASS	10 lbs. 4 lbs.	MARCH-JUNE	COMMON BERMUDA (HULLED) & WEEPING LOVEGRASS	10 lbs. 4 lbs.
APRIL-AUGUST	BROWN TOP MILLET, SUBANGRASS, PEARL MILLET	40 lbs. 60 lbs. 50 lbs.	JULY-AUGUST	COMMON BERMUDA (HULLED) & BROWN TOP MILLET, COMMON BERMUDA (HULLED) & WEEPING LOVEGRASS, COMMON BERMUDA (HULLED) & PENSACOLA BAHIA & BROWN TOP MILLET, PENSACOLA BAHIA & BROWN TOP MILLET, PENSACOLA BAHIA & WEEPING LOVEGRASS & BROWNTOP MILLET	10 lbs. 10 lbs. 6 lbs. 2 lbs. 6 lbs. 30 lbs. 10 lbs. 60 lbs. 10 lbs. 30 lbs. 2 lbs. 10 lbs.
SEPT-FEBRUARY	RYE (MOST WINTER HARDY), RYEGRASS, BARLEY, WHEAT	3 BU 40 lbs. 3 BU 3 BU		WEeping LOVEGRASS & BROWN TOP MILLET	4 lbs. 10 lbs.

NOTES:
 1. CENTIPEDE SOD CAN BE USED AS PERMANENT COVER ANYTIME EXCEPT JUNE THROUGH OCTOBER.
 2. LISTED IN ORDER OF PREFERENCE.
 3. ALL PERMANENT GRASS PLANTINGS SHALL BE MULCHED.

Ds2-Ds3 NOTES:

- Ds2**
- A TEMPORARY GRASSING OF ANNUAL RYEGRASS SHALL BE APPLIED AT A RATE OF 40 LBS PER ACRE TO DISTURBED AREAS WITHIN 14 DAYS OF DISTURBANCE. THE PROPOSED ANNUAL RYEGRASS SHALL BE APPLIED DURING THE MONTHS OF SEPTEMBER THRU DECEMBER.
 - A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds2 AND SHALL BE APPLIED AT A RATE OF 1500 LBS. PER AC.
 - AGRICULTURAL LIME IS REQUIRED UNLESS SOIL TESTS INDICATE OTHERWISE.
- Ds3**
- A PERMANENT GRASSING OF UNHULLED COMMON BERMUDA SHALL BE APPLIED AT A RATE OF 10 LBS. PER ACRE DURING THE MONTHS OF SEPTEMBER THRU FEBRUARY. IF A HYDRAULIC SEEDER IS TO BE USED, REFER TO THE EROSION AND SEDIMENT CONTROL MANUAL FOR FURTHER DIRECTION ON THE METHOD OF APPLICATION.
 - A 6-12-12 FERTILIZER SHALL BE USED ON THE DISTURBED AREA OF Ds3 AND SHALL BE APPLIED AT RATE OF 1500 LBS. PER AC.
 - DRIED STRAW OR DRY HAY SHALL BE USED FOR MULCHING AND APPLIED AT A RATE OF 2 TONS PER ACRE. MULCH WILL BE SPREAD UNIFORMLY WITHIN 24 HOURS AFTER SEEDING. THE MULCH MAY BE SPREAD BY BLOWER-TYPE SPREADING EQUIPMENT, OTHER SPREADING EQUIPMENT OR BY HAND. MULCH SHALL BE APPLIED TO COVER 75% OF THE SOIL SURFACE. AGRICULTURAL LIME IS REQUIRED AT A RATE OF 1-2 TONS PER ACRE UNLESS SOIL TESTS INDICATE OTHERWISE.

NO.	DATE	DESCRIPTION

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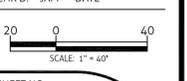
SEDIMENT AND EROSION CONTROL PLAN - INTERMEDIATE
 Norwood Stables



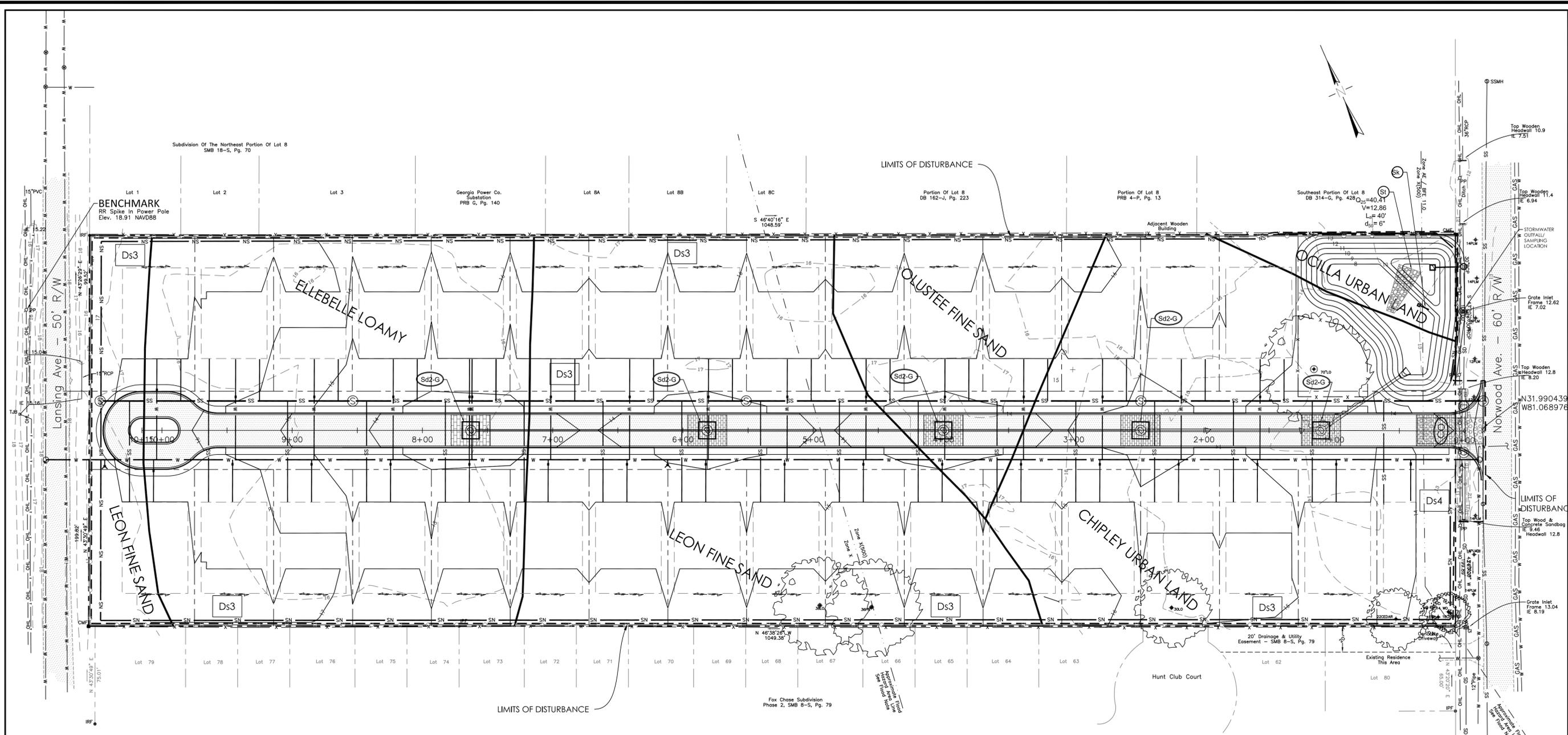
CERT.#21051 EXP:10/31/2018
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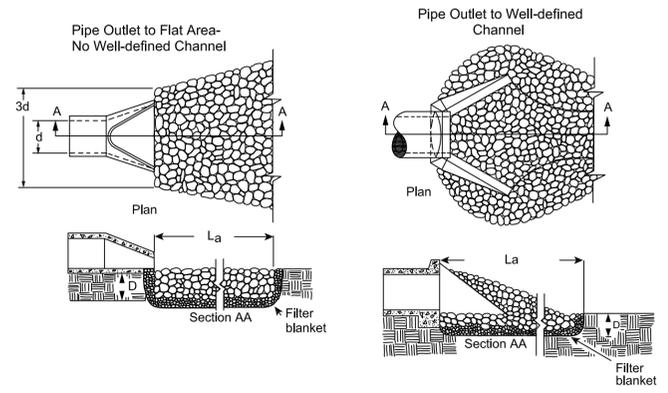
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 CHK'D: JAM DATE



SHEET NO.
C.7b
 755-17-01



Riprap Outlet Protection



- Notes
1. L_a is the length of the riprap apron.
 2. $D = 1.5$ times the maximum stone diameter but not less than 6".
 3. In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth of to the top of the bank, whichever is less.
 4. A filter blanket or filter fabric should be installed between the riprap and soil foundation.

NOTE:
 1. ONCE THE SITE IS PAVED, THE CONSTRUCTION EXIT WILL NO LONGER BE REQUIRED.
 2. ONCE THE SITE IS STABILIZED, REMOVE ALL TEMPORARY BMP'S

Ds4 = SOD

REVISIONS NO.	DATE	DESCRIPTION

MAUPIN
 engineering

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 O: 912 235 2915

SEDIMENT AND EROSION CONTROL PLAN - FINAL

Norwood Stables

LEVEL II E&S

GEORGIA REGISTERED ENGINEER
 No. 23758
 WAY A. MAUPIN

CERT.#21051 EXP:10/31/2018

STATUS: RELEASED FOR PERMITTING

DRWN: ADD 7-16-2018
 CHK'D: JAM DATE

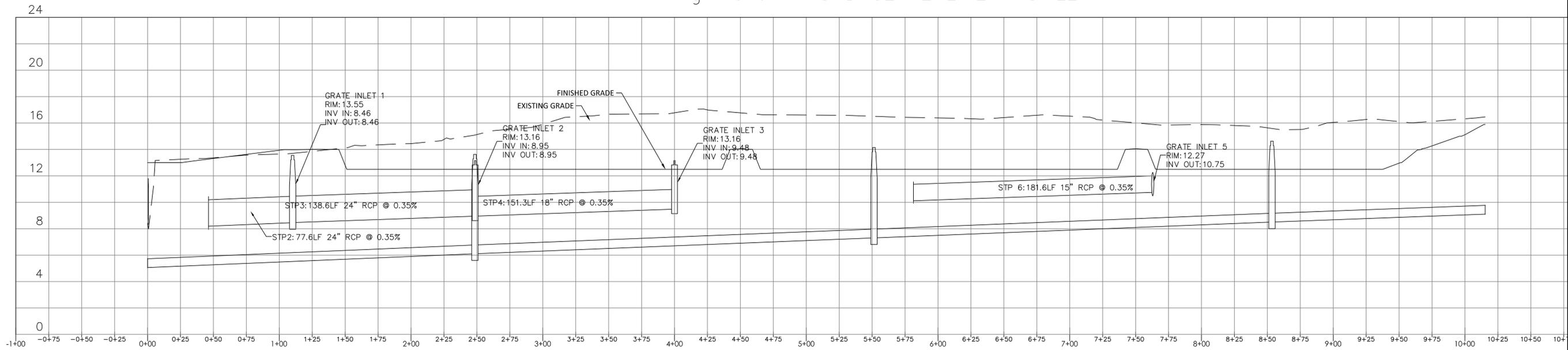
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SHEET NO.

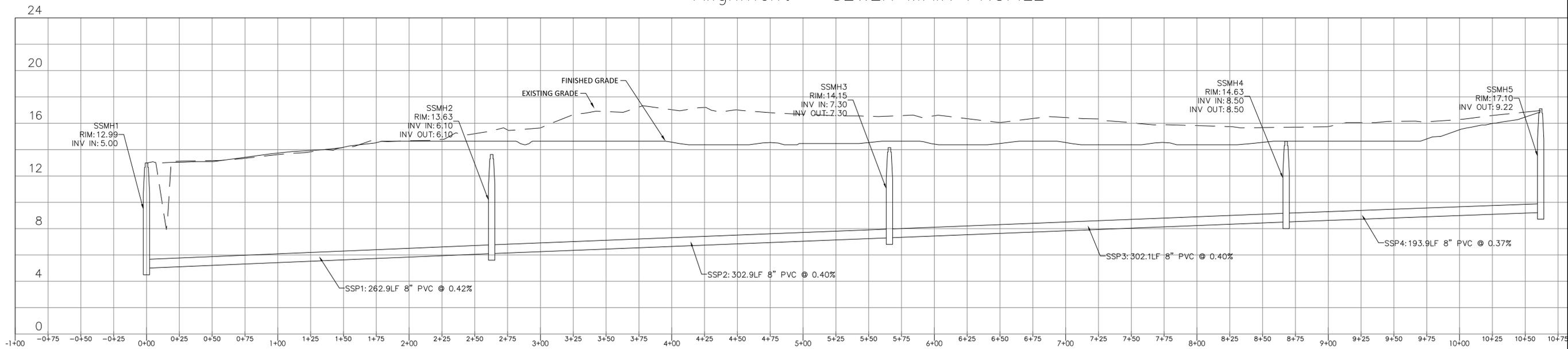
C.7c
 755-17-01

PROJECT NO.

Alignment – ROAD CENTERLINE PROFILE



Alignment – SEWER MAIN PROFILE



REVISIONS NO.	DATE	DESCRIPTION

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DETAILS
Norwood Stables

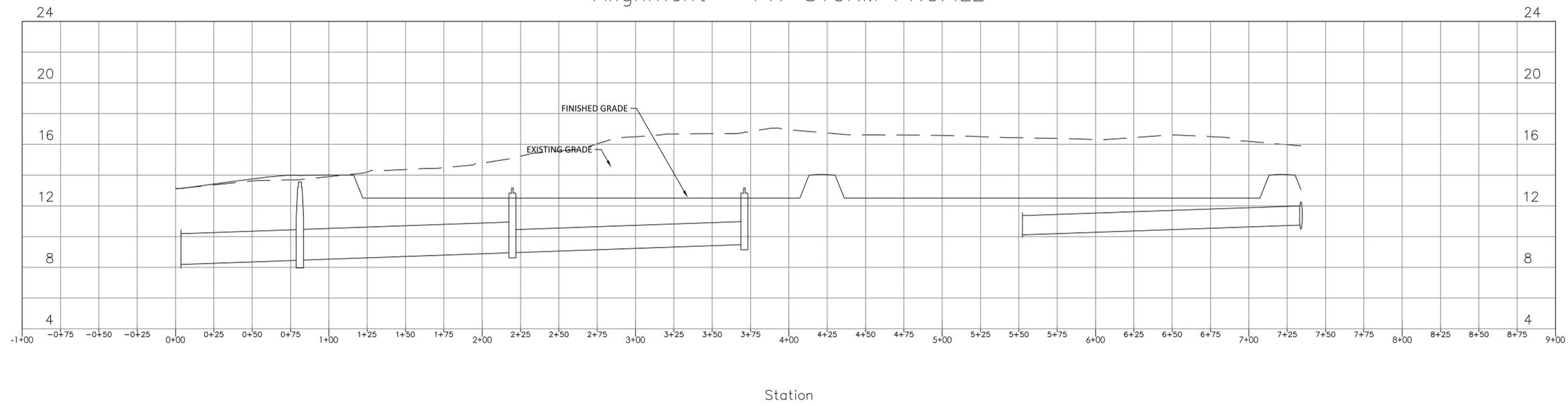


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P.1
755-17-01

Alignment – PR–STORM PROFILE



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DETAILS
Norwood Stables



STATUS:
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DRWN: ADD 7-16-2018
CHK'D: JAM DATE

SHEET NO.
P.2
755-17-01

DESIGN PROFESSIONAL'S CREDENTIALS:

ENGINEER'S NAME (PRINTED): JAY MAUPIN, PE
GEORGIA PE NUMBER: 23758
GSWCC LEVEL II CERTIFICATION NUMBER: 21051
CERTIFICATION NUMBER EXPIRATION DATE: 10/31/2018

24 HOUR CONTACT
Guy Davidson
912.695.5758

PRIMARY PERMITEE:

Guy Davidson
17 Park Of Commerce Blvd. Suite 105
Savannah, GA 31405
o:912.944.4410

DEVELOPMENT

THIS SITE IS BEING DEVELOPED FOR RESIDENTIAL USE.
THE TOTAL PARCEL AREA IS 7.22(±) ACRES. THE DISTURBED AREA IS 7.12(±) ACRES.

CONSTRUCTION EXIT LOCATION

N: 31.90407'
W: 81.069012'

EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN (ES&PC)

THIS PLAN WAS PREPARED AS REQUIRED BY NPDES GENERAL PERMIT NO. GAR 10001. THESE PLAN SHEETS AND ALL REQUIREMENTS OF THE GENERAL PERMIT AS WELL AS LOCAL, STATE, AND FEDERAL REGULATIONS OR LAWS APPLY REGARDLESS OF SPECIFIC INCLUSION IN THIS PLAN.

CONSTRUCTION ACTIVITY DESCRIPTION

OWNER/DEVELOPER (PRIMARY PERMITEE) WILL OVERSEE SITE CONSTRUCTION LOCATED ON THE PROPERTY SITUATED IN CITY OF Savannah, Ga. PIN: 1-0360-02-006,-007

THE DESIGNER WAS NOT KNOWLEDGEABLE OF ANY SECONDARY PERMITEES AT THE TIME OF PRODUCTION OF THE DRAWINGS.

CONSTRUCTION WILL BEGIN WITH PLACEMENT OF PERIMETER SILT PROTECTION BARRIERS AND CONSTRUCTION ENTRANCES. AFTER THESE EROSION CONTROL BEST MANAGEMENT PRACTICES HAVE BEEN INSTALLED, CLEARING AND GRUBBING OF VEGETATION WILL BEGIN IN AREAS THAT ARE TO BE DISTURBED. THE SITE WILL THEN BE GRADED AND UTILITIES WILL BE TRENCHED. ONCE BROUGHT TO FINAL GRADE, THE ROADS WILL BE PAVED WHILE ALL OTHER EXPOSED AREAS WILL BE STABILIZED WITH VEGETATION, SIDEWALKS, OR STRUCTURES.

STORM WATER RUNOFF FROM THIS DEVELOPMENT WILL BE DETAINED IN THE PROPOSED DETENTION PONDS AND DISCHARGED THROUGH THE CITY DRAINAGE AND CANAL SYSTEM INTO THE SAVANNAH RIVER.

NAME OF RECEIVING WATERS

ON-SITE DETENTION ==> CITY DITCHES ==> HERB RIVER

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 SUPERVISION.

Jay Maupin
7/16/18
Date

I CERTIFY THAT THE PERMITEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR AN APPROPRIATE AND COMPREHENSIVE SYSTEM OF BEST MANAGEMENT PRACTICES REQUIRED BY THE GEORGIA WATER QUALITY CONTROL ACT AND THE DOCUMENT "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" (MANUAL) PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMISSION AS OF JANUARY 1 OF THE YEAR IN WHICH THE LAND-DISTURBING ACTIVITY WAS PERMITTED, PROVIDES FOR THE SAMPLING OF THE RECEIVING WATER(S) OF THE SAMPLING OF THE STORM WATER OUTFALLS AND THAT THE DESIGNED SYSTEM OF BEST MANAGEMENT PRACTICES AND SAMPLING METHODS IS EXPECTED TO MEET THE REQUIREMENTS CONTAINED IN THE GENERAL NPDES PERMIT NO. GAR0001.

Jay Maupin
7/16/18
Date

THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN 7 DAYS AFTER INSTALLATION.

NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED FROM THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.

AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.

WASTE MATERIALS SHALL NOT BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404.

THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.

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.

ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

CONCRETE TRUCK WASHING - NO CONCRETE TRUCKS WILL BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE.

PETROLEUM-BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS, AND TARS WILL BE INSPECTED DAILY FOR LEAKS AND SPILLS. THIS INCLUDES CONSTRUCTION VEHICLES AND MACHINERY AND MAINTENANCE AREAS. REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE LOCATED AWAY FROM STATE WATER, NATURAL DRAINS, AND STORMWATER DRAINAGE INLETS. IN ADDITION, TEMPORARY FUELING TANKS SHALL HAVE A SECONDARY CONTAINMENT LINER TO PREVENT/MINIMIZE SITE CONTAMINATION. DISCHARGE OF OILS, FUELS, AND LUBRICANTS IS PROHIBITED. PROPER DISPOSAL METHODS WILL INCLUDE COLLECTION IN A SUITABLE CONTAINER AND DISPOSAL AS REQUIRED BY LOCAL AND STATE REGULATIONS.

PAINTS/FINISHES/SOLVENTS - ALL PRODUCTS WILL BE STORED IN TIGHTLY SEALED ORIGINAL CONTAINERS WHEN NOT IN USE. EXCESS PRODUCT WILL NOT BE DISCHARGED TO THE STORMWATER COLLECTION SYSTEM. EXCESS PRODUCT, MATERIALS USED WITH THESE PRODUCTS AND PRODUCT CONTAINERS WILL BE DISPOSED OF ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

FERTILIZER/HERBICIDE - THESE PRODUCTS WILL BE APPLIED AT RATES THAT DO NOT EXCEED THE MANUFACTURER'S SPECIFICATIONS OR ABOVE THE GUIDELINES SET FORTH IN THE CROP ESTABLISHMENT OR IN THE GSWCC MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA. ANY STORAGE OF THESE MATERIALS WILL BE UNDER ROOF IN SEALED CONTAINERS.

BUILDING MATERIALS - NO BUILDING OR CONSTRUCTION MATERIALS WILL BE BURIED OR DISPOSED OF ON-SITE. ALL SUCH MATERIALS WILL BE DISPOSED OF IN PROPER WASTE DISPOSAL PROCEDURES.

SPILL CLEANUP AND CONTROL PRACTICES

- LOCAL, STATE, AND MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND PROCEDURES WILL BE MADE AVAILABLE TO SITE PERSONNEL.
MATERIAL AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS. TYPICAL MATERIALS AND EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, CAT LITTER, SAND, SAWDUST, AND PROPERLY LABELED PLASTIC AND METAL WASTE CONTAINERS.
SPILL PREVENTION PRACTICES AND PROCEDURES WILL BE REVIEWED AFTER A SPILL AND ADJUSTED AS NECESSARY TO PREVENT FUTURE SPILLS.
ALL SPILLS WILL BE CLEANED UP IMMEDIATELY UPON DISCOVERY. ALL SPILLS WILL BE REPORTED AS REQUIRED BY LOCAL, STATE, AND FEDERAL REGULATIONS.
FOR SPILLS THAT IMPACT SURFACE WATER (LEAVE A SHEEN ON SURFACE WATER), THE NATIONAL RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
FOR SPILLS OF AN UNKNOWN AMOUNT, THE NATIONAL CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE GEORGIA EPD WILL BE CONTACTED WITHIN 24 HOURS.
FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS, THE SPILL WILL BE CLEANED AND LOCAL AGENCIES CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED WITH PLAN IF MORE THAN 1,320 GALLONS OF PETROLEUM IS STORED ON-SITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 60 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

UPON COMPLETION OF THIS PROJECT THE CONTRACTOR SHALL REMOVE ALL EROSION CONTROL MEASURES EXCEPT AS NOTED ON THE PLANS.

POLLUTANTS FROM THE SITE WILL BE TREATED BY THE BIODETENTION & SEDIMENT POND INSTALLED DURING CONSTRUCTION.

INSPECTIONS

- (1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITEE SHALL INSPECT:
A. ALL AREAS AT THE PRIMARY PERMITEE'S SITE WHERE PETROLEUM PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILLS AND LEAKS FROM VEHICLES AND EQUIPMENT AND
B. ALL LOCATIONS AT THE PRIMARY PERMITEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS SUBMITTED.

- (2) MEASURE RAINFALL ONCE EVERY 24-HOURS EXPECT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY AND NON-WORKING FEDERAL HOLIDAY UNTIL A NOTICE OF TERMINATION IS SUBMITTED. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND SEEDING OF TARGET PERENNIALS APPROPRIATE OF THE REGION.

- (3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER (UNLESS SUCH STORM ENDS AFTER 6:00 PM ON ANY FRIDAY OR ON ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST): (A) DISTURBED AREAS OF PRIMARY PERMITEE'S CONSTRUCTION SITE ; (B) AREAS USE BY THE PRIMARY PERMITEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION ; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S). FOR AREAS OF A SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING TARGET PERENNIALS APPROPRIATE FOR THE REGION, THE PERMITEE MUST COMPLY WITH PART I.V.D.4.A.(4). THESE INSPECTIONS MUST BE CONDUCTED UNTIL NOTICE OF TERMINATION IS SUBMITTED.

- (4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL NOTICE OF TERMINATION IS RECEIVED BY EPD) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATER(S). EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATER(S)

- (5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

- (6) A REPORT OF EACH INSPECTION THAT INCLUDES THE NAME(S) OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE, OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART I.V.D.4.A.(5). OF PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED HAS UNDERGONE FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS OF BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN. WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A CERTIFICATION THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART V.G.2. OF THIS PERMIT.

SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

- (1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS A SCALE EQUAL TO OR MORE DETAILED THAT A 1:24000 MAP SHOWING THE LOCATION OF THE SITE OR THE STAND ALONE CONSTRUCTION; (A) THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL SAMPLING LOCATIONS. WHEN THE PERMITEE HAS CHOSEN TO USE A USGS TOPOGRAPHIC MAP AND THE RECEIVING WATER(S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATER(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATER(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP;

- (2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION;

- (3) WHEN THE PERMITEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATER(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

- (4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

SAMPLE TYPE.

ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

- (1) SAMPLE CONTAINERS SHOULD BE LABELED PRIOR TO COLLECTING THE SAMPLES.
(2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
(3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.

- (4) MANUAL, AUTOMATIC OR RINSING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACCUMULATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITEE MUST UTILIZE MANUAL SAMPLING OR RINSING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.

- (5) SAMPLING AND ANALYSIS OF THE RECEIVING WATER(S) OR OUTFALLS BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

SAMPLING POINTS.

- (1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITEE MUST SAMPLE ALL RECEIVING WATER(S), OR ALL OUTFALL(S), OR A COMBINATION OF RECEIVING WATER(S) AND OUTFALL(S). SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED ACTIVITY AND REPRESENTATIVE OF THE WATER QUALITY OF THE RECEIVING WATER(S) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

- (A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FROM THE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGES NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.

- (B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATER(S) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE NOT ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATER(S) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE USED FOR THE DOWNSTREAM TURBIDITY VALUE.

- (C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZON AND VERTICAL CENTER OF THE RECEIVING WATER(S) OR THE STORM WATER OUTFALL CHANNEL(S).

- (D) CARE SHOULD BE TAKEN TO AVOID STIRRING THE BOTTOM SEDIMENTS IN THE RECEIVING WATER(S) OR IN THE OUTFALL STORM WATER CHANNEL.

- (E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

- (F) THE SAMPLES SHOULD BE KEPT FREE OF FLOATING DEBRIS.

- (G) PERMITEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES AND AREAS LOCATED OUTSIDE THE WASTE DISPOSAL LIMITS OF A LANDFILL CELL THAT HAS BEEN CERTIFIED BY EPD FOR WASTE DISPOSAL, 100% OF THE SOIL SURFACE IS UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPED ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL (EXCLUDING A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION)

- (H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

SAMPLING FREQUENCY.

- (1) THE PRIMARY PERMITEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR THE QUALIFYING EVENT, THE PERMITEE SHALL SAMPLE AS SOON AS AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

- (2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITEE'S CONTROL, THE PERMITEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

- (3) SAMPLING BY THE PERMITEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

- (A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THEIR PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO THE COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;

- (B) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS

PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING EVENT OR AFTER ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;

- (C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMP'S IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED, CORRECTIVE ACTION SHALL BE DEFINED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THE BMP'S ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;

- (D) WHERE SAMPLING PURSUANT TO (A), (B), OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITEE, IN ACCORDANCE WITH PART I.V.D.4.A.(6), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND

- (E) EXISTING CONSTRUCTION ACTIVITIES, I.E. THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF DAY OR WEEK.

REPORTING.

- 1. THE APPLICABLE PERMITEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITEE TO SUBMIT THE AMPUNG RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF ANY STORM WATER DISCHARGE(S) OR THE RECEIVING WATER(S) BEYOND THE MINIMUM FREQUENCY STATED IN THE PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.

- 2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:

- a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
c. THE DATE(S) ANALYSES WERE PERFORMED;
d. THE TIME ANALYSES WERE INITIATED;
e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR ANALYTICAL TECHNIQUES OR METHODS USED;
g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC. USED TO DETERMINE THESE RESULTS
h. RESULTS WHICH EXCEED 1000TU SHALL BE REPORTED AS "EXCEEDS 1000 NTU); AND
i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

- 3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THE PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE CONSTRUCTION SITE, OR THE PROOF OF SUBMITTAL SHALL BE READILY AVAILABLE AT A DESIGNATED LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF AN ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

RETENTION RECORDS

- 1. THE PRIMARY PERMITEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI;

- a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
b. A COPY OF THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN REQUIRED BY THE PERMIT;
c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THE PERMIT;
d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART I.V.D.4.A. OF THIS PERMIT;
f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT; AND
g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART I.V.D.4.A.(2). OF THIS PERMIT.

- 2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITEE WHO EITHER PRODUCED OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITEE.

SAMPLE ANALYSIS

STORMWATER SAMPLES ARE TO BE ANALYZED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 AND THE GUIDANCE DOCUMENT TITLED "NPDES STORMWATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001."

STORMWATER IS TO BE SAMPLED FOR NEPHELOMETRIC TURBIDITY UNITS (NTU) AT THE OUTFALL LOCATION. A DISCHARGE OF STORMWATER RUNOFF FROM DISTURBED AREAS WHERE BEST MANAGEMENT PRACTICES HAVE NOT BEEN PROPERLY DESIGNED, INSTALLED, AND MAINTAINED SHALL CONSTITUTE A SEPARATE VIOLATION FOR EACH DAY ON WHICH SUCH CONDITION RESULTS IN THE TURBIDITY OF THE DISCHARGE EXCEEDING 75, THE VALUE THAT WAS SELECTED FROM APPENDIX B IN PERMIT NO. GAR 10001. THE NTU IS BASED UPON THE DISTURBED ACREAGE OF 7.12 ACRES FOR THE PROJECT SITE, THE SURFACE WATER DRAINAGE AREA OF 0.092 SQUARE MILES, AND RECEIVING WATER WHICH SUPPORTS WARM WATER FISHERIES.

RUNOFF COEFFICIENT

- WEIGHTED PRE-CONSTRUCTION CN CURVE NUMBER: 74 25-YEAR EVENT RUNOFF ESTIMATE: 11.83 CFS
WEIGHTED POST-CONSTRUCTION CN CURVE NUMBER: 84 25-YEAR EVENT RUNOFF ESTIMATE: 2.1 CFS

SEDIMENT STORAGE CALCULATIONS.

Table with columns: BASIN, DISTURBED AREA, A, REQUIRED STORAGE VOLUME, SvR, (A*67cy), STORAGE METHOD, PROVIDED STORAGE VOLUME, SvA, REQUIREMENT MET?, YES

Table with columns: REVISIONS NO., DATE, DESCRIPTION



114 WEST 42nd STREET • SAVANNAH, GA 31401
O: 912 235 2915

EROSION CONTROL GENERAL NOTES
Norwood Stables



CERT #21051 EXP: 10/31/2018
STATUS:

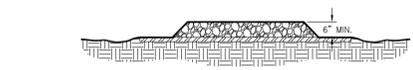
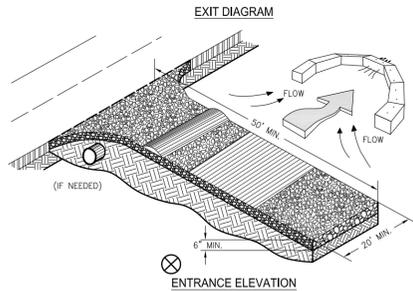
RELEASED FOR PERMITTING

DRWN: ADD 7-16-2018
CHK'D: JAM DATE

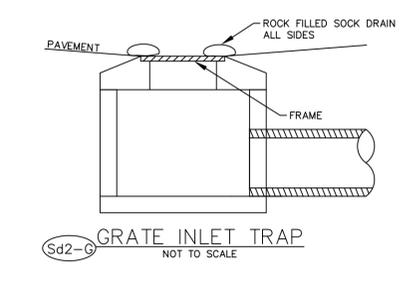
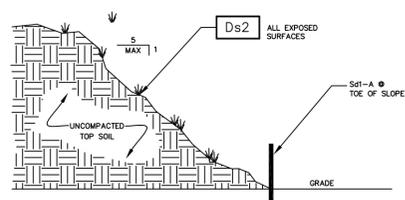


SHEET NO.
D.1
755-17-01

CRUSHED STONE CONSTRUCTION EXIT



- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (OVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVES MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



SEDIMENT MARKER DETAIL
NOT TO SCALE

UNIFORM CODING SYSTEM
FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES
GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelway constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAIN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAIN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize cut and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	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.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SKIMMER			A buoyant device that releases/draws water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dissipation and infiltration, while creating multiple sedimentation chambers with the employment of intermediate dikes.

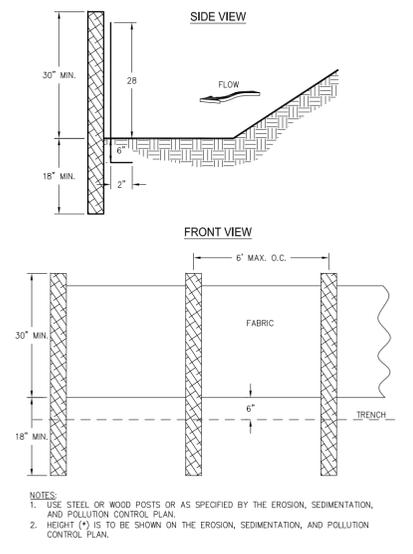
STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
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.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
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.
Wt	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

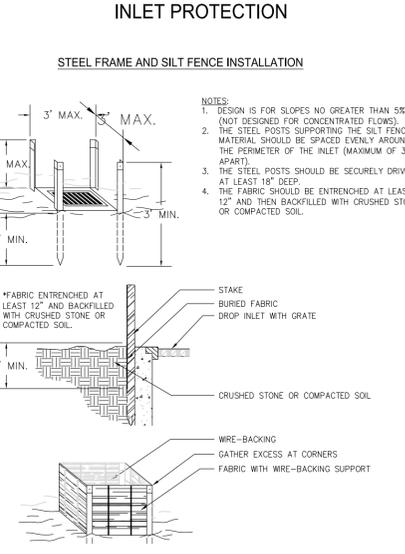
VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded, artificially constructed, or re-nourished.
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 (SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Co	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (USING PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks, or to prevent, or restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKIFIERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

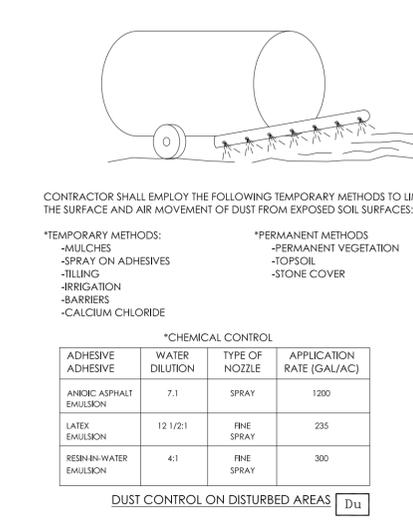
SILT FENCE - TYPE NON-SENSITIVE



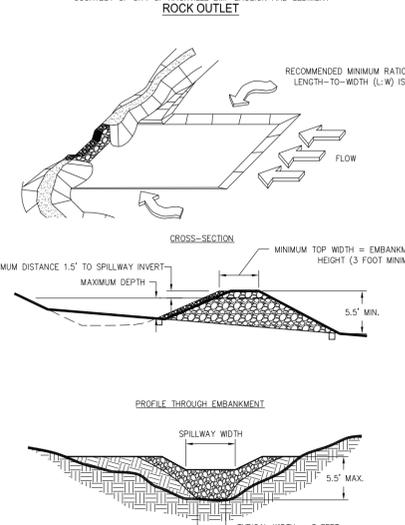
FABRIC AND SUPPORTING FRAME FOR INLET PROTECTION



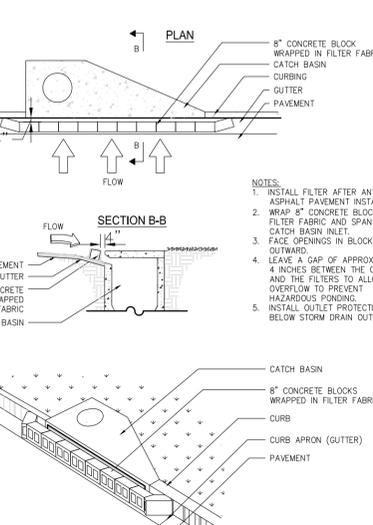
TEMPORARY SEDIMENT TRAP
COURTESY OF CITY OF KNOXVILLE (SOIL EROSION AND SEDIMENT ROCK OUTLET)



TEMPORARY SEDIMENT TRAP
COURTESY OF CITY OF KNOXVILLE (SOIL EROSION AND SEDIMENT ROCK OUTLET)



CURB INLET FILTER "PIGS IN BLANKET"



CONTRACTOR SHALL EMPLOY THE FOLLOWING TEMPORARY METHODS TO LIMIT THE SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES:

***TEMPORARY METHODS:**

- MULCHES
- SPRAY ON ADHESIVES
- TILLING
- IRRIGATION
- BARRIERS
- CALCIUM CHLORIDE

***PERMANENT METHODS:**

- PERMANENT VEGETATION
- TOPSOIL
- STONE COVER

***CHEMICAL CONTROL**

ADHESIVE	WATER DILUTION	TYPE OF NOZZLE	APPLICATION RATE (GAL/AC)
ANIONIC ASPHALT EMULSION	7:1	SPRAY	1200
LATEX EMULSION	12 1/2:1	FINE SPRAY	235
RESIN-WATER EMULSION	4:1	FINE SPRAY	300

DUST CONTROL ON DISTURBED AREAS Du

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EROSION CONTROL DETAILS
Norwood Stables

LEVEL II E&S

GEORGIA REGISTERED ENGINEER
No. 23758
WAY A. MAUPIN

CERT.#21051 EXP:10/31/2018
STATUS:

RELEASED FOR PERMITTING

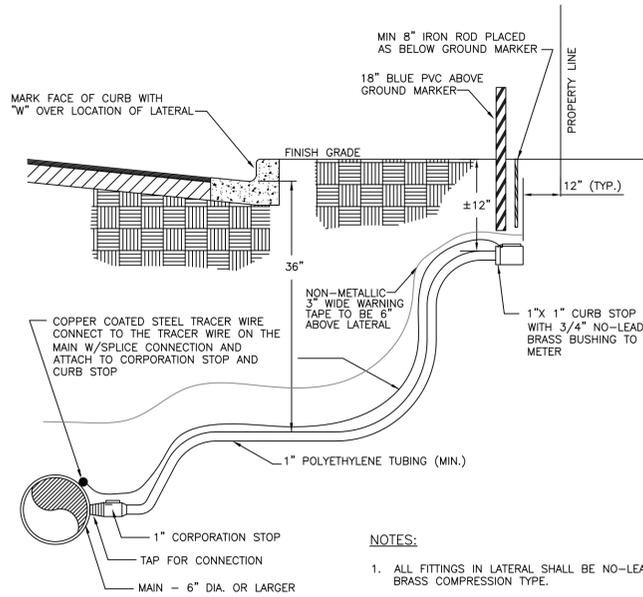
DRWN: ADD 7-16-2018
CHK'D: JAM DATE

SCALE: 1" = 40'

SHEET NO.

D.2
755-17-01

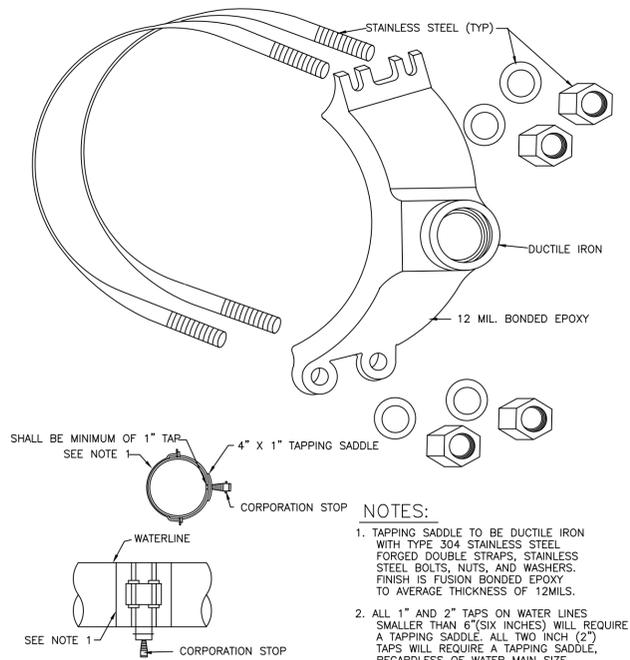
PROJECT NO.



NOTES:

1. ALL FITTINGS IN LATERAL SHALL BE NO-LEAD BRASS COMPRESSION TYPE.
2. 2" TAPS REQUIRE TAPPING SADDLE.
3. CURB STOP MARKER REQUIRED FOR NEW DEVELOPMENTS.
4. TERMINATE CURB STOP IN METER BOXES

**WATER LATERAL CONNECTION
(6" OR LARGER MAIN)**

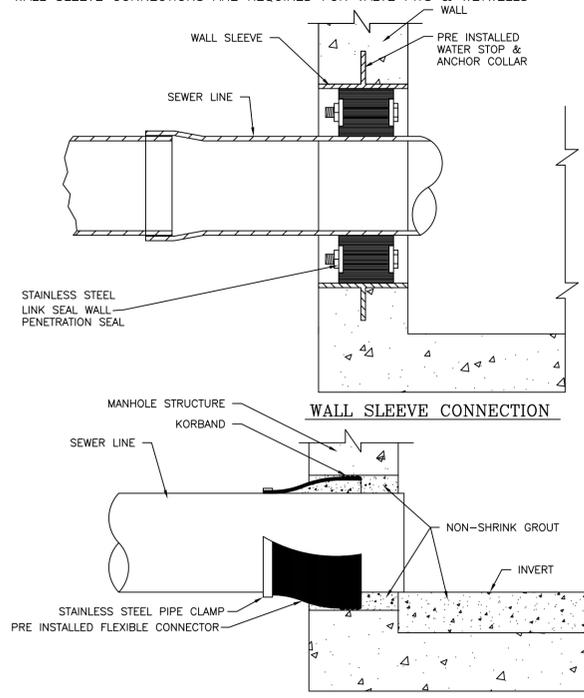


NOTES:

1. TAPPING SADDLE TO BE DUCTILE IRON WITH TYPE 304 STAINLESS STEEL FORGED DOUBLE STRAPS, STAINLESS STEEL BOLTS, NUTS, AND WASHERS. FINISH IS FUSION BONDED EPOXY TO AVERAGE THICKNESS OF 12 MILS.
2. ALL 1" AND 2" TAPS ON WATER LINES SMALLER THAN 6" (SIX INCHES) WILL REQUIRE A TAPPING SADDLE. ALL TWO INCH (2") TAPS WILL REQUIRE A TAPPING SADDLE, REGARDLESS OF WATER MAIN SIZE.
3. A VALVE BOX SHALL BE USED FOR 2" CORPORATION STOPS.(SEE DETAIL W4)

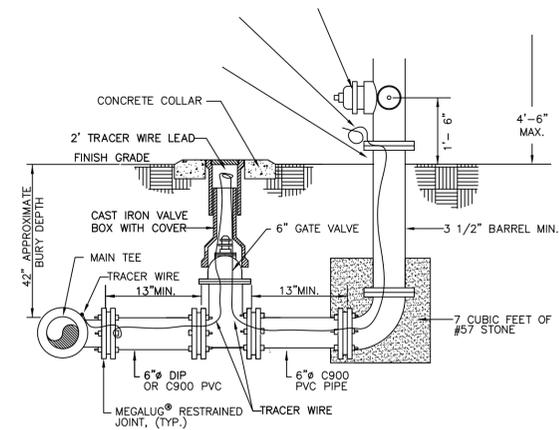
1" & 2" TAPPING SADDLE

NOTE:
WALL SLEEVE CONNECTIONS ARE REQUIRED FOR VALVE PITS & WETWELLS WALL



"BOOT" CONNECTION

SEWER BOOT CONNECTION



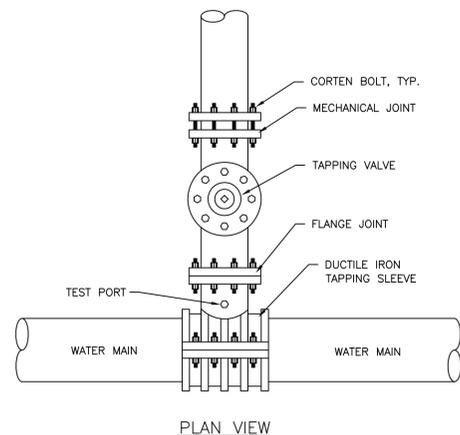
NOTES:

1. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE RESTRAINED.
2. VALVE BOX AND COLLAR INSTALLED PER DETAIL W4.
3. REMOVE CHAINS AFTER INSTALLATION OF NEW HYDRANT.
4. CONNECT TRACER WIRE TO WIRE ON MAIN W/ SPLICE CONNECTOR.

HYDRANT FOR STANDARD BURY MAIN

NOTE:

1. THE TAPPING SLEEVE AND VALVE MUST BE INSTALLED IN A MANHOLE.

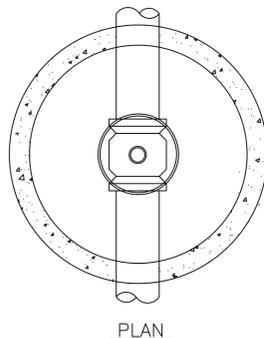


PLAN VIEW

TYPICAL TAPPING SLEEVE AND VALVE

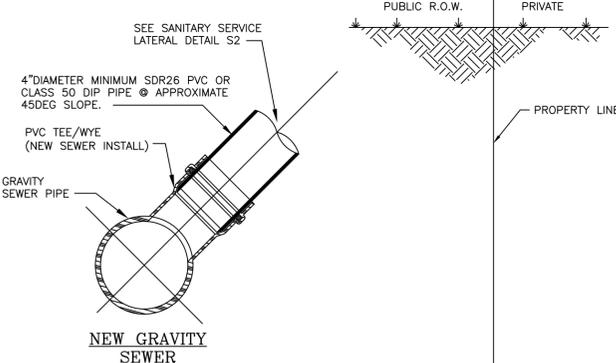
NOTES:

1. MANHOLE FRAME AND COVER PER DETAIL W27
2. THE BOTTOM OF THE MANHOLE FRAME SHALL NOT BE MORE THAN 12" ABOVE THE TOP OF THE MANHOLE STRUCTURE.
3. PRECAST CONCENTRIC CONE RISERS MAY BE USED WHERE REQUIRED FOR DEPTH.
4. THE MANHOLE FRAME AND COVER MUST BE CENTERED OVER THE VALVE OPERATING NUT.
5. POLYPROPYLENE MANHOLE STEPS SHALL BE PROVIDED AT 12" O.C. FOR MANHOLES GREATER THAN 5 FEET DEEP.

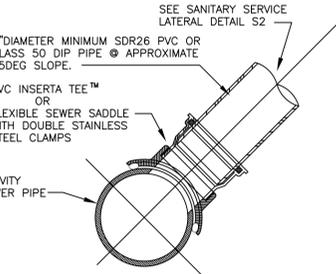


SECTION

VALVE MANHOLE FOR 4"-8" GATE VALVE



NEW GRAVITY SEWER

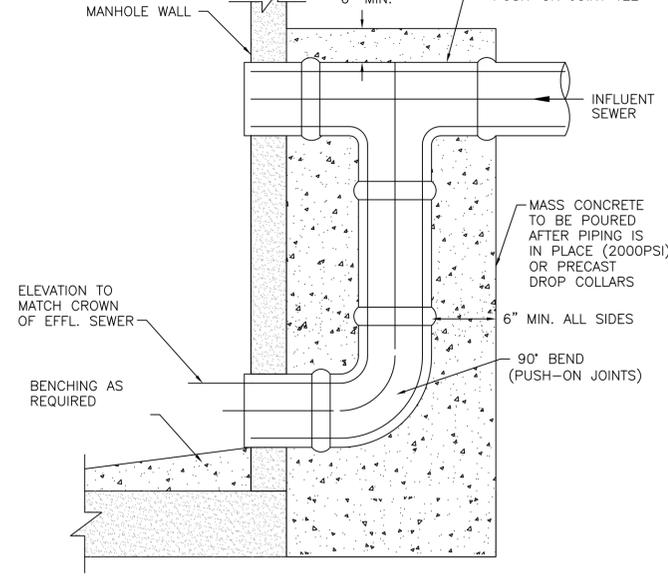


EXISTING GRAVITY SEWER

SANITARY SEWER LATERAL

NOTES:

1. THE TEE-WYE SHALL BE SET AT THE PROPER DEPTH TO ACCOMMODATE THE PROPOSED OR EXISTING HOUSE LATERAL.
2. CONNECT TRACER WIRE ON LATERAL TO TRACER WIRE ON MAIN WITH SPLICE CONNECTOR.



NOTES:

1. PIPE AND FITTINGS WITHIN CONCRETE ENCASEMENT SHALL BE WRAPPED WITH 6 MIL POLYETHYLENE PRIOR TO THE CONCRETE PLACEMENT.
2. ALL PIPE AND FITTINGS SHALL BE SDR 26 PVC.
3. THE CONNECTIONS TO AN EXISTING MANHOLE SHALL OCCUR BY CORE-DRILLING.
4. THE CONNECTIONS SHALL INCLUDE A WATERTIGHT BOOT.

STANDARD BOOT CONNECTION

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DETAILS

Norwood Stables

GEORGIA REGISTERED ENGINEER
No. 23758
WAY A. MAUPIN

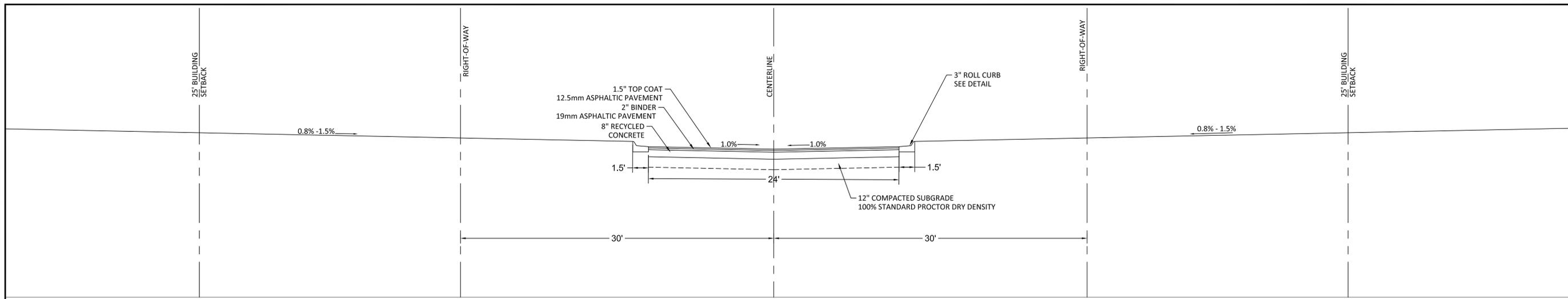
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DRWN: ADD 7-16-2018
CHK'D: JAM DATE

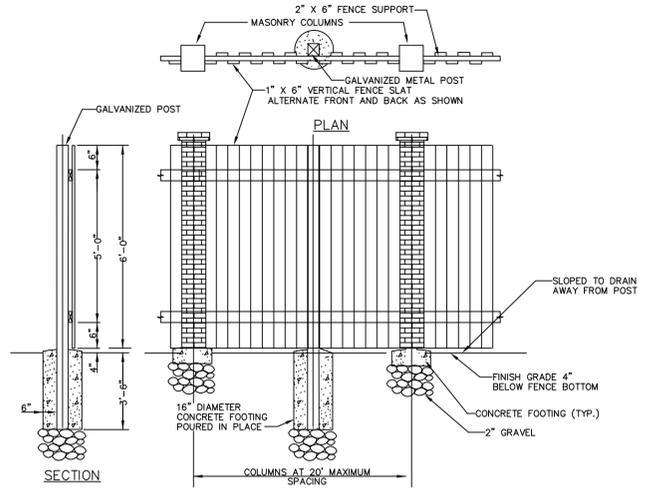
SCALE: 1" = 40"

SHEET NO.

D.3
755-17-01



TYPICAL ROAD SECTION



ELEVATION
6-FOOT HIGH PRIVACY FENCE
NOT TO SCALE

REVISIONS NO.	DATE	DESCRIPTION

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DETAILS

Norwood Stables



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CHK'D: JAM DATE

SHEET NO.

D.4
755-17-01