

GENERAL NOTES:

1. TOTAL ACREAGE OF SITE = 11.27 AC. DISTURBED AREA = 4.0 AC.
2. PROPERTY IS ZONED R-1.
3. TOTAL NUMBER OF LOTS: 10.
4. MINIMUM LOT SIZE: 35,000 S.F.
5. MINIMUM SETBACKS – F: 30' S: 10' R: 25'
6. WATER PROVIDED BY CITY OF GAINESVILLE.
7. SANITARY SEWER SERVICE PROVIDED BY ON-SITE SANITARY SEWER SYSTEM.
8. LENGTH OF PROPOSED ROAD: 1,074 L.F.
9. BOUNDARY INFORMATION BASED ON PLAT BY PATTON LAND SURVEYING, INC., INC. DATED 11/19/19.
10. TOPOGRAPHIC INFORMATION BASED ON MEAN SEA LEVEL AND IS HALL COUNTY GIS INFORMATION.
11. NO PORTION OF THIS SITE IS LOCATED WITHIN A ZONE A FLOOD HAZARD ZONE AS DEFINED ON F.I.R.M. MAPS FOR HALL COUNTY PANEL NO. 13139 C 0225 F DATED 9/29/06. NO HALL COUNTY FUTURE FLOOD IS LOCATED ON THE PROPERTY PER HALL COUNTY GIS.
12. THE MAXIMUM BUILDING HEIGHT IS 35'.
13. ALL CONSTRUCTION TO COMPLY WITH HALL COUNTY STANDARDS.
14. SEE ARCHITECTURAL PLANS FOR BUILDING FLOOR PLAN DIMENSIONS, DOOR LOCATIONS, AND OTHER ARCHITECTURAL DETAILS.
15. NOTIFY HALL COUNTY INSPECTIONS 24 HOURS BEFORE BEGINNING OF EVERY PHASE OF CONSTRUCTION.
16. SIGNS (LOCATION, NUMBER AND/OR SIZE) ARE NOT APPROVED UNDER THIS BUILDING PERMIT. A SEPARATE PERMIT IS REQUIRED FOR EACH SIGN.
17. ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED BY FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
18. HYDROLOGY STUDY IS PROVIDED FOR THIS DEVELOPMENT PER REPORT BY MYERS & CO., INC. DATED 5-5-20.
19. SOILS INFORMATION TAKEN FROM USDA SOIL SURVEY DATED APRIL 1972 BARROW, HALL, AND JACKSON CO.
20. STREET RIGHT OF WAY SHALL BE DEDICATED TO HALL COUNTY.
21. A HOMEOWNERS ASSOCIATION WILL BE ESTABLISHED PRIOR TO FINAL PLAT.
22. HANDICAP RAMPS SHALL BE INSTALLED BY DEVELOPER DURING CURB & GUTTER INSTALLATION PRIOR TO FINAL PLAT APPROVAL.

HALL COUNTY ENGINEERING NOTES

1. NO ADDITIONAL CONSTRUCTION OR IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO WALLS, FENCES, SIGNS, SPRINKLER SYSTEMS, LIGHTS, TREES, ETC. WILL BE ALLOWED ON THE RIGHT OF WAY.
2. CENTERLINE MUST BE SURVEYED AND STAKED FOR THE GRADING INSPECTION.
3. FIRE HYDRANTS TO BE PLACED A MINIMUM OF 6' BEHIND CURB AND WATER VALVES OUT OF PAVEMENT.
4. SIDEWALKS WILL BE INSTALLED ON A LOT BY LOT BASIS.
5. RETAINING WALLS OVER 4' IN HEIGHT AND PART OF INITIAL INFRASTRUCTURE WILL BE REQUIRED TO BE INSPECTED BY DESIGN PROFESSIONAL OR REPRESENTATIVE AND INSPECTION REPORT WILL BE REQUIRED AT TIME OF FINAL PLAT.
6. SIGN EVERY LOT OR 100', WHICHEVER IS LESS, STATING: "STREAMSIDE BUFFER – DO NOT REMOVE OR ALTER EXISTING NATIVE VEGETATION."
7. DETENTION POND OR SEDIMENT BASIN/STORAGE WILL BE INSTALLED & FUNCTIONING BEFORE ANY MAJOR GRADING OR IMPERVIOUS SURFACES ARE CONSTRUCTED.
8. NO WASTE MATERIAL OF ANY KIND SHALL BE BURIED IN ANY AREA OF THE RIGHT-OF-WAY OR UNDER ANY ROADWAY FILL SECTIONS.
9. ALL WASTE OR DEBRIS SHALL BE DISPOSED OF IN A LEGAL AND PERMITTED MANNER.
10. NO BURY PITS ALLOWED.

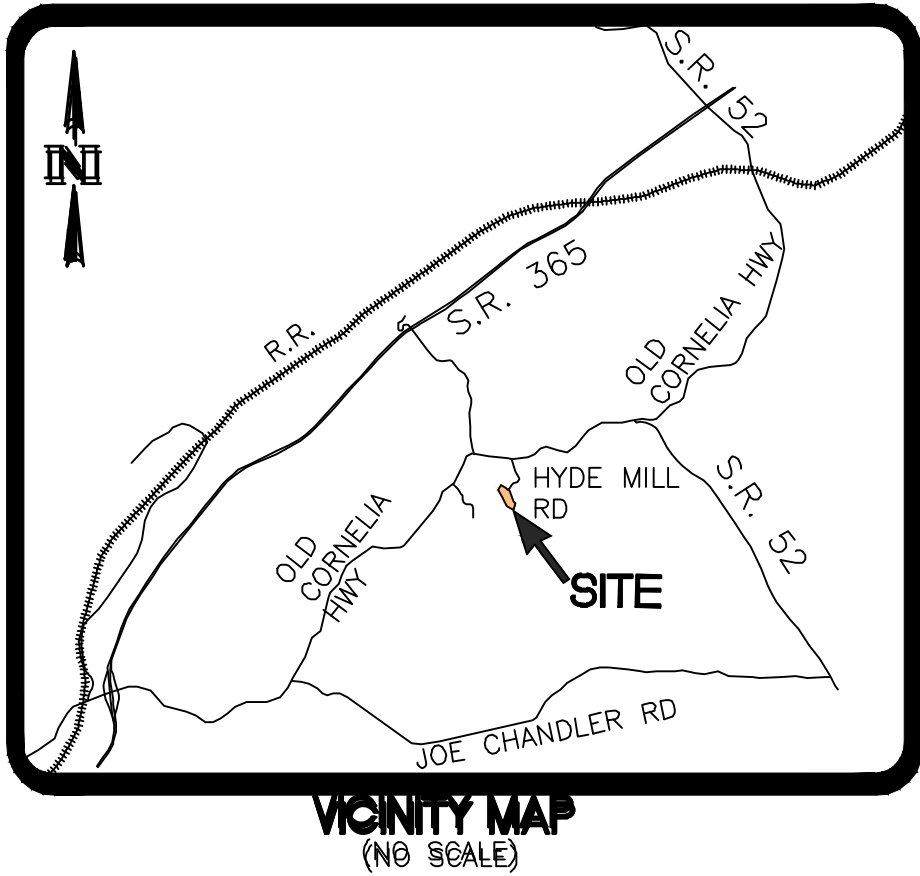
SITE PLANS FOR HYDE MILL FARMS

ZONING: R-1

GLADES G.M.D. 403

HALL COUNTY, GEORGIA
TAX PARCEL : 15018 000033

SITE ADDRESS:
0 HYDE MILL ROAD
GAINESVILLE, GA 30507



OWNER/DEVELOPER:
AVA HOLDINGS, LLC
117 TIMBERLOST TRAIL
SUWANEE, GA 30024
24-HOUR CONTACT: NICK THOMPSON
PHONE: 404-931-3434
EMAIL: nickthompson4119@gmail.com

DESIGNER:
MYERS & CO., INC.
P.O. BOX 634
GAINESVILLE, GEORGIA 30503
PHONE: (770) 297-9793
CONTACT: ED MYERS



SHEET INDEX	
CIVIL PLANS	
C-1	COVER SHEET
C-2	EXISTING SITE PLAN
C-3	PRELIMINARY PLAN
C-4	SOIL PLAN
C-5	TREE PLAN
C-6	ROAD PLAN & PROFILE
C-7	ENTRANCE PLAN
C-8	WATER PLAN
C-9	STORM & GRADING PLAN
C-10	STORM PROFILES
C-11	POND PLAN & DETAILS
EROSION CONTROL PLANS	
EC-1	INITIAL EROSION CONTROL PLAN
EC-2	INTERMEDIATE EROSION CONTROL PLAN
EC-3	FINAL EROSION CONTROL PLAN
EC-4	NPDES EROSION CONTROL PLAN NOTES
EC-5	NPDES EROSION CONTROL PLAN NOTES
EC-6	EROSION CONTROL DETAILS
DETAIL SHEETS	
D-1	DETAILS
D-1	DETAILS

HALL COUNTY ENGINEERING NOTES

THE CONTRACTOR MUST ARRANGE A PRE-CONSTRUCTION MEETING WITH THE HALL COUNTY DEPARTMENT OF PUBLIC WORKS, ENGINEERING DIVISION PRIOR TO ANY CONSTRUCTION ACTIVITY. THE INSPECTOR CAN BE REACHED AT 770-531-6800.

PROJECT DESCRIPTION: THE PROJECT CONSISTS OF A PROPOSED 10 LOT SINGLE FAMILY RESIDENTIAL SUBDIVISION. THE TOTAL AREA OF THE PROJECT IS 11.3 ACRES. THE DISTURBED AREA IS 4.0 ACRES. EARTHWORK VOLUMES ARE 6,000 CY OF CUT / FILL THAT WILL BALANCE ON THE SITE.

GPS COORDINATES OF SITE EXIT: 34.344384° -83.72237°

DEVELOPMENT SERVICES PERMITTING DISCLAIMER

THE APPROVAL OF THESE PLANS AND THE ISSUANCE OF THIS LAND DISTURBANCE PERMIT DOES NOT IN ANY WAY SUGGEST THAT ALL OTHER REQUIREMENTS FOR THE LEGAL OR APPROPRIATE OPERATIONS FOR THIS ACTIVITY, WHICH MAY REQUIRE ADDITIONAL PERMITTING, HAVE BEEN MET. THE ONUS IS ON THE OWNER / DEVELOPER / BUILDER TO DISCOVER WHAT ADDITIONAL PERMITTING OR APPROVALS MAY BE NECESSARY TO OPERATE FROM THIS POINT IN AN APPROPRIATE AND LEGAL MANNER. PLAN APPROVAL OR PERMIT ISSUANCE DOES NOT ABSOLVE THE APPLICANT FROM COMPLYING WITH ALL APPLICABLE LAWS, POLICIES, STANDARDS OR OTHER PERMITS WHICH MAY BE REQUIRED FOR THIS PROJECT.

OSHA DISCLAIMER

CONTRACTORS SHALL CONDUCT ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS OF APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND ALL LOCAL, STATE AND FEDERAL RULES AND REGULATIONS. PROPER SAFETY PROCEDURES ARE OF SPECIAL CONCERN ON THIS PROJECT CONSIDERING THAT WORKERS WILL BE IN OPEN TRENCHES FOR A PORTION OF THE SCOPE OF WORK ON THIS SITE.

UTILITIES DISCLAIMER

EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATION FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE PROJECT DESIGNER PRIOR TO CONSTRUCTION. DAMAGE TO ANY EXISTING UTILITY LINES RESULTING FROM CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT CONTRACTOR EXPENSE.

WETLAND PROTECTION

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL BY HALL COUNTY OF ANY LAND DISTURBING ACTIVITIES WITHIN WETLAND AREAS. IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO CONTACT THE APPROPRIATE REGULATORY AGENCY FOR APPROVAL OF ANY WETLANDS DISTURBANCE.

Hall County Government
BOARD OF COMMISSIONERS

POST OFFICE DRAWER 1435
GAINESVILLE, GEORGIA 30503

t: 770.535.8288 | f: 770.531.3972

CHAIRMAN
Richard P. Higgins

Kathy L. Cooper, District 1
Billy Powell, District 2
Shelly Echols, District 3
Jeff Stowe, District 4

COUNTY ADMINISTRATOR
Jack A. Connell

ASSISTANT
COUNTY ADMINISTRATOR
Marty Nix

ASSISTANT
COUNTY ADMINISTRATOR
Zachary T. Proppes

COMMISSION CLERK
Lisa A. Ritchie

Myers & Co., Inc.
Attn: Ed Myers
PO Box 634
Gainesville, GA 30503

RE: Application to Amend Conditions

To Whom it May Concern:

Please be advised that in its Special Called Voting meeting on April 21, 2020, the Hall County Board of Commissioners voted to approve the following item, with the listed conditions:

- Application of Myers & Co., Inc. to amend conditions of a previously approved subdivision on a 11.31± acre tract located on Hyde Mill Road at its terminus; a.k.a. 0 Hyde Mill Road; Zoned R-1; Tax Parcel 15018 000033. Proposed Use: 10 lot subdivision. Commission District 3.

Conditions:

- 1) The development shall generally occur as depicted on the site plan and described in the project narrative, modified for compliance with regulations at time of site plan approval.
- 2) The development shall be approved for a maximum of 10 lots with a minimum lot size of 35,000 square feet. A minimum of 4 of the proposed lots within the subdivision shall be a minimum of one acre in size. Each home shall have two car garages; a mandatory HOA, and a minimum of 2,000 square feet of heated floor space.
- 3) Prior to the issuance of any building permits, a recorded plat shall be required.
- 4) All conditions of zoning shall appear on any plats created for the subdivision.
- 5) A minimum of 50% of the front facade shall be of masonry material with the remainder being Hardie-plank or shake siding. Side and rear facades will consist of Hardie-plank or shake siding. No vinyl siding shall be permitted.

Please contact me if you have questions or if you require any additional information concerning this action of the Board.

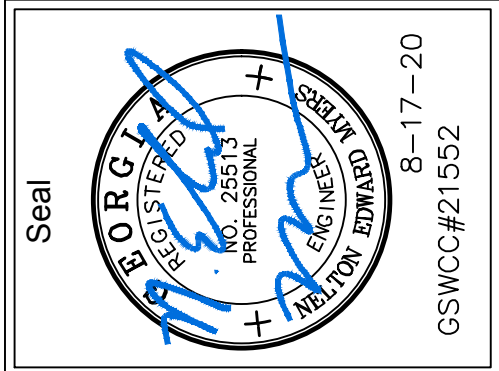
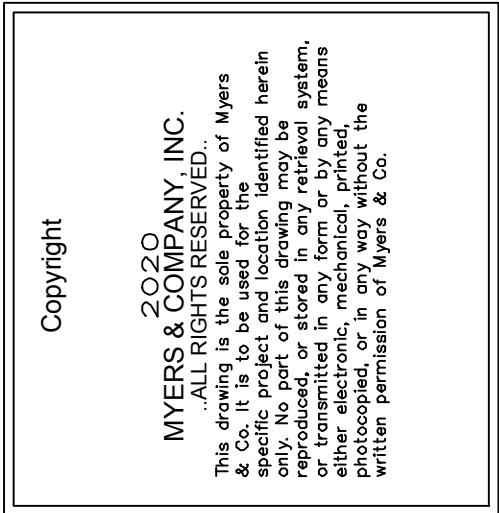
Sincerely,
Lisa A. Ritchie
Hall County Commission Clerk

CC: AVA Holdings, LLC
117 Timberlost Trail
Suwanee, GA 30024

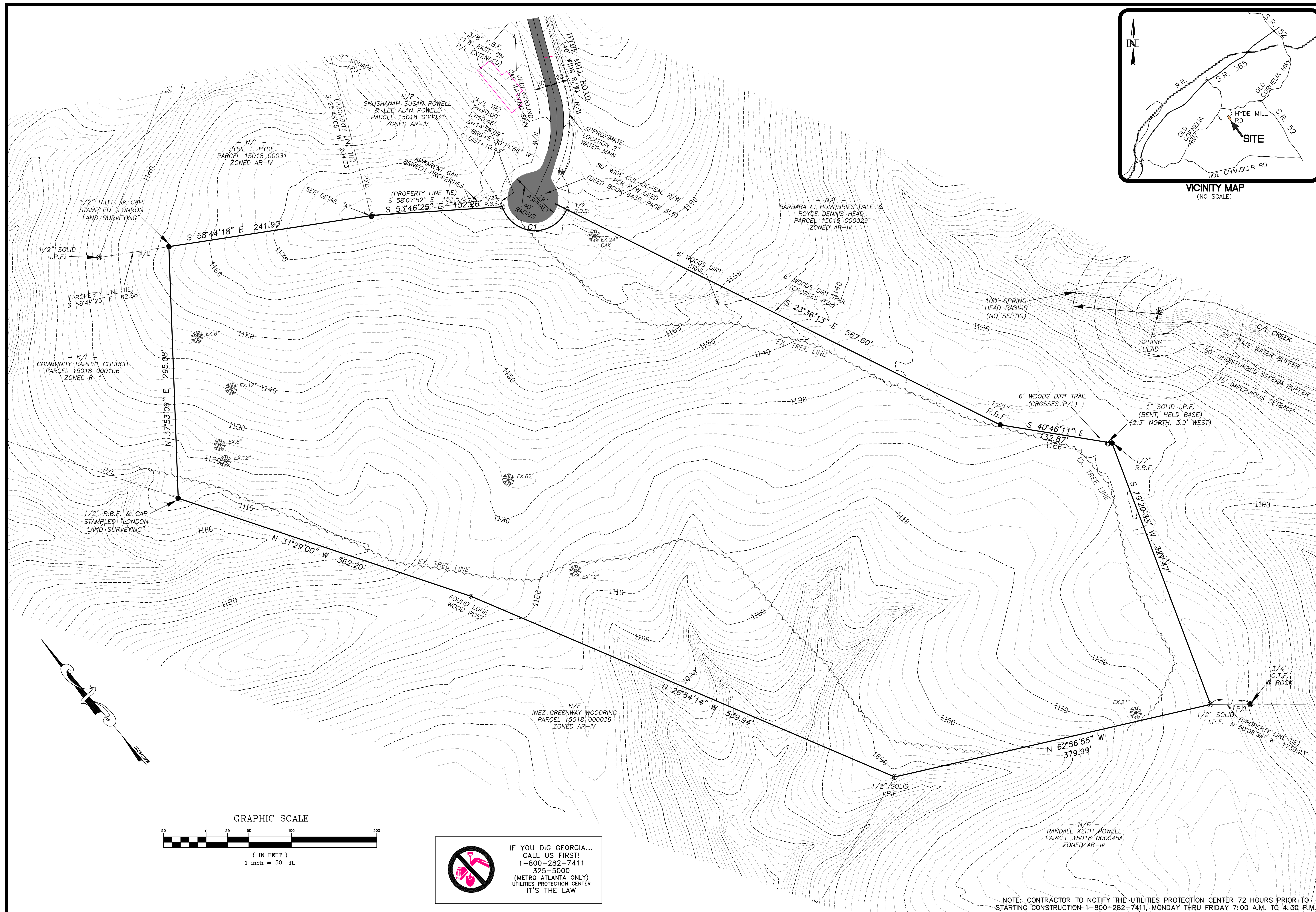
CC: Sarah McQuade, Acting Director of Planning & Development

www.hallcounty.org

NOTE: CONTRACTOR TO NOTIFY THE UTILITIES PROTECTION CENTER 72 HOURS PRIOR TO STARTING CONSTRUCTION 1-800-282-7411, MONDAY THRU FRIDAY 7:00 A.M. TO 4:30 P.M.



DATE	5-12-20
JOB NO.	19-21
Sheet Title	COVER SHEET
Revisions	① 8/17/20 - Addressed County comments
SHEET	C-1



Copyright

2020
MYERS & COMPANY, INC.
ALL RIGHTS RESERVED.

This document is the property of Myers & Co. It is to be used and not reproduced, stored in any retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, or in any way without the written permission of Myers & Co.

MYERS & **CO.**
civil engineers

P.O. BOX 634
GAINESVILLE, GA 30603

770-297-9793
ed@myers-and-co.com

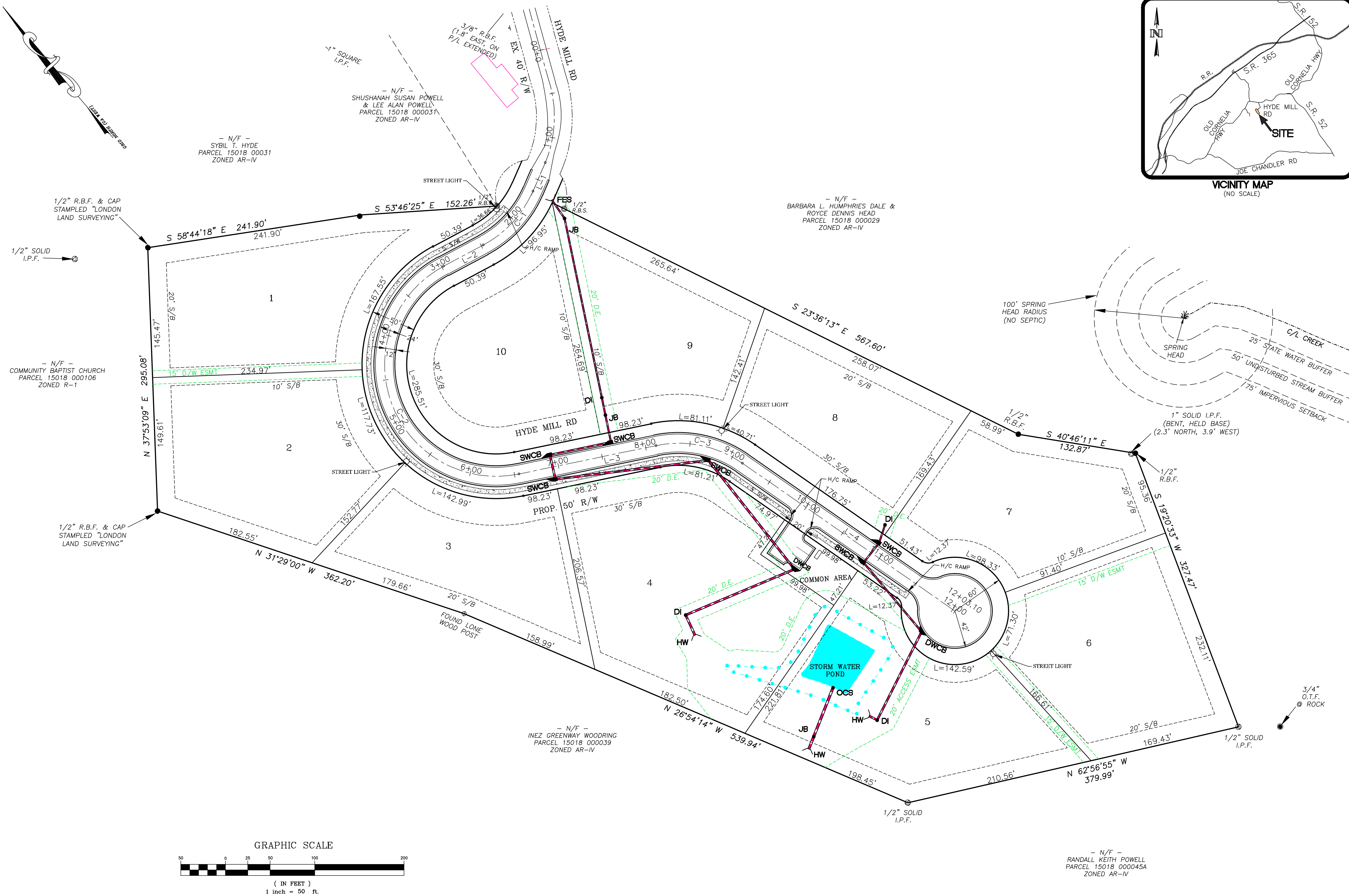
Project Description	HYDE MILL FARMS GLADES G.M.D. 403 HALL COUNTY, GEORGIA
---------------------	--

DATE	5-12-20
JOB NO.	19-21
Sheet Title EXISTING SITE PLAN	

Revisions
① 8/17/20 – Addressed County comments.

SHEET

C-2



Copyright

2000
MYERS & COMPANY, INC.
ALL RIGHTS RESERVED.

This drawing is the sole property of Myers & Company, Inc. and is to be used for this specific project and location identified herein only. No part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the written permission of Myers & Co.

Seal



8-17-20
GSWCC#21552

MYERS & CO.
civil engineers

P.O. BOX 634
GAINESVILLE, GA 30503

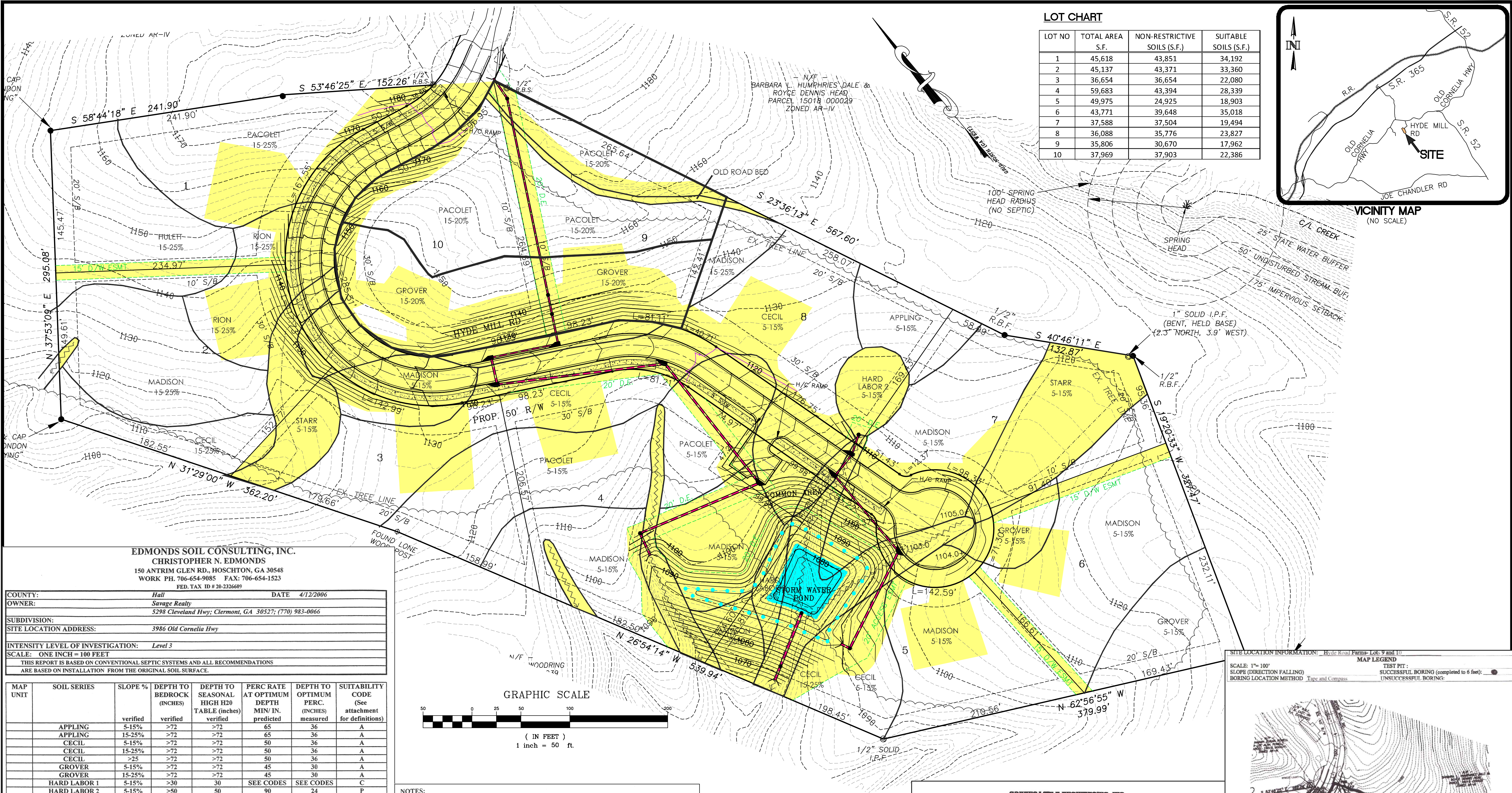
770-297-9793
ed@myers-and-co.com

Project Description	HYDE MILL FARMS GLADES G.M.D., 403 HALL COUNTY, GEORGIA
---------------------	---

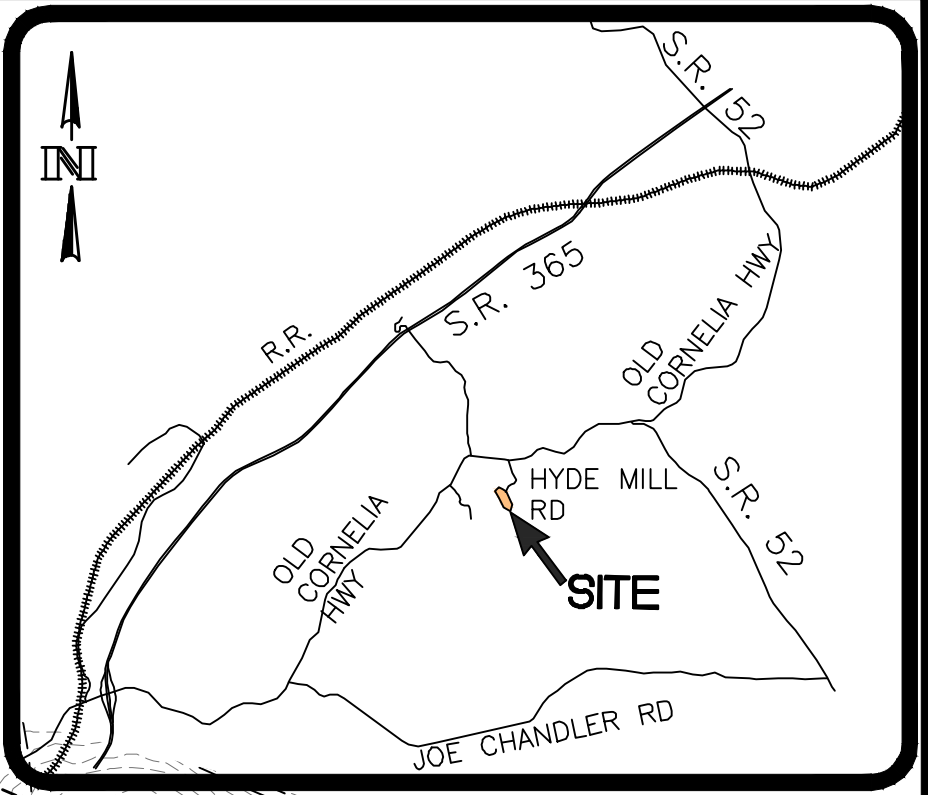
DATE	5-12-20
JOB NO.	19-21
Sheet Title PRELIMINARY PLAN	

Revisions
① 8/17/20 – Addressed County comments.

SHEET
C-3



LOT CHART			
LOT NO	TOTAL AREA S.F.	NON-RESTRICTIVE SOILS (S.F.)	SUITABLE SOILS (S.F.)
1	45,618	43,851	34,192
2	45,137	43,371	33,360
3	36,654	36,654	22,080
4	59,683	43,394	28,339
5	49,975	24,925	18,903
6	43,771	39,648	35,018
7	37,588	37,504	19,494
8	36,088	35,776	23,827
9	35,806	30,670	17,962
10	37,969	37,903	22,386



VICINITY MAP
(NO SCALE)

EDMONDS SOIL CONSULTING, INC.
CHRISTOPHER N. EDMONDS
150 ANTRIM CLEN RD., HOSCHTON, GA 30548
WORK PH. 706-654-9085 FAX: 706-654-1523
FED. TAX ID # 20-2326669

COUNTY:	Hall	DATE	4/12/2006
OWNER:	Savage Realty		
SUBDIVISION:	5298 Cleveland Hwy; Clermont, GA 30527; (770) 983-0066		
SITE LOCATION ADDRESS:	3986 Old Cornelia Hwy		
INTENSITY LEVEL OF INVESTIGATION:	Level 3		
SCALE:	ONE INCH = 100 FEET		
THIS REPORT IS BASED ON CONVENTIONAL SEPTIC SYSTEMS AND ALL RECOMMENDATIONS ARE BASED ON INSTALLATION FROM THE ORIGINAL SOIL SURFACE.			

MAP UNIT	SOIL SERIES	SLOPE %	DEPTH TO BEDROCK (INCHES)	DEPTH TO SEASONAL HIGH H2O TABLE (INCHES)	PERC RATE AT OPTIMUM DEPTH MIN/IN.	DEPTH TO OPTIMUM PERC. (INCHES)	SUITABILITY CODE (See attachment for definitions)
	APPLING	5-15%	>72	>72	65	36	A
	APPLING	15-25%	>72	>72	65	36	A
	CECIL	5-15%	>72	>72	50	36	A
	CECIL	15-25%	>72	>72	50	36	A
	CECIL	>25	>72	>72	50	36	A
	GROVER	5-15%	>72	>72	45	30	A
	GROVER	15-25%	>72	>72	45	30	A
	HARD LABOR 1	5-15%	>30	30	SEE CODES	SEE CODES	C
	HARD LABOR 2	5-15%	>50	50	90	24	P
	HARD LABOR 2	15-25%	>50	50	90	24	P
	HULETT	15-25%	>72	>72	45	30	A
	HULETT	>25	>72	>72	45	30	A
	MADISON	0-5%	>72	>72	45	30	A
	MADISON	5-15%	>72	>72	45	30	A
	MADISON	15-25%	>72	>72	45	30	A
	MADISON	>25	>72	>72	45	30	A
	PACOLET	5-15%	>72	>72	45	30	A
	PACOLET	15-25%	>72	>72	45	30	A
	RION	5-15%	>72	>72	45	30	A
	RION	15-25%	>72	>72	45	30	A
	STARR	5-15%	>72	>72	SEE CODES	SEE CODES	D
	WEDOWEE	5-15%	>72	>72	60	30	A

AREAS WHICH FLOOD OR HAVE POTENTIAL FOR PROBLEMS ASSOCIATED WITH FLOODING SHOULD NOT BE UTILIZED.
IF THE AREA WHERE SEPTIC SYSTEM IS TO GO IS ALTERED BY CUTTING OR FILLING, THIS DOCUMENT IS VOID.

→ DRAINAGE, RUNS ALL YEAR, (ONE DOT)
→ DRAINAGE, RUNS PART OF YEAR, (3 DOTS)
● WELL
--- GULLY, AND OR RAINY WEATHER DRAINAGE WAY
○ BORED, NUMBERED & FLAGGED HOLE SITE

Any changes or alterations made to the soil maps or interpretations without the written approval of Christopher N. Edmonds voids the seal of the Soil Classifier. The information contained in this report is based on the professional opinions and judgment of the Soil Classifier and is not a guarantee of the performance of any waste disposal system. Christopher N. Edmonds does not design, install, maintain or permit waste disposal systems. Your local health department may view the soil conditions differently than the Soil Classifier and will have the final say in their county. Your local health department holds full authority in the permitting of onsite waste disposal systems. Christopher N. Edmonds produces soil surveys inclusive of the USDA Soil Survey Manual, U.S. Soil Taxonomy, and all mapping is done in accordance to the National Cooperative Soil Survey Standards. Also, all work meets or exceeds the Georgia Soil Classifiers Certification Board Minimum Soil Investigation Standards for Onsite Sewage Disposal Systems.

NOTES:

- Existing well to be filled.
- Existing dirt road should be avoided as usable soil area for septic lines as it has become eroded and gullied.
- House sites and septic drain fields should not be located in or near drains that run part of the year or areas that receive upslope water drainage, unless diversions or some other means are used to control upslope water drainage.
- Septic systems should not be installed when soil is wet so as to avoid smearing of the trench walls. If smearing does occur during an installation, the sidewalls should be raked to aid in good sidewall absorption.

SUITABILITY CODES

- A. SUITABILITY CODE=SOIL SERIES SHOULD HAVE ABILITY TO FUNCTION AS SUITABLE ABSORPTION FIELD, WITH PROPER DESIGN, INSTALLATION, AND MAINTENANCE.
- C. SUITABILITY CODE=DUE TO WATER TABLE, FLOODING, AND/OR DRAINAGE PROBLEMS, THERE IS A HIGH PROBABILITY OF FAILURE FOR CONVENTIONAL SEPTIC SYSTEMS. (YOUR HEALTH DEPARTMENT CAN DISCUSS WITH YOU IF AN ALTERNATIVE SYSTEM MIGHT BE AN OPTION FOR YOUR SITUATION.)
- D. SUITABILITY CODE=DUE TO THE DRAINAGE AND/OR FLOODING CONDITIONS THESE SOIL TYPES SHOULD BE AVOIDED. SITE ALTERATIONS WHICH CONTROL SURFACE AND SUBSURFACE WATER MAY MAKE THESE AREAS SUITABLE. A FURTHER SOIL STUDY IS RECOMMENDED IF ALTERATIONS ARE MADE.
- P. SUITABILITY CODE=THIS SOIL SERIES HAS WATER TABLE AND/OR DRAINAGE PROBLEMS IN THE LOWER PORTION OF THE SOIL AND A CLAYEY (POSSIBLY RESTRICTIVE) LAYER IN THE UPPER PORTION OF THE SOIL WHICH COULD CAUSE PROBLEMS FOR CONVENTIONAL SEPTIC SYSTEMS. HOWEVER, THE DEPTH TO THE SEASONAL HIGH WATER TABLE IS SUCH THAT A SHALLOW INSTALLATION (WHICH MAINTAINS THE REQUIRED 24 INCHES OF SEPARATION BETWEEN THE TRENCH BOTTOM AND THE SEASONAL HIGH WATER TABLE) MIGHT BE POSSIBLE. A LEVEL A STUDY, POSSIBLY INCLUDING SATURATED SOIL HYDRAULIC CONDUCTIVITY TESTS, OR POSSIBLY A SERIES OF QUALITY PERCOLATION TESTS, COULD BE CONDUCTED WITHIN THE PROPOSED SEPTIC AREA TO DETERMINE IF A SUITABLE RATE AND DEPTH EXISTS FOR A CONVENTIONAL ABSORPTION FIELD. THESE AREAS SHOULD HAVE THE ABILITY TO FUNCTION FOR DRIP-EMITTER SYSTEMS.

GREENCASTLE ENGINEERING, INC.
P.O. BOX 2114
PEACHTREE CITY, GEORGIA 30269
(878) 360-6909

COUNTY: Hall DATE: 08/04/20
CLIENT: Myers & Co., Inc. Project No: 7227
SITE LOCATION ADDRESS: Hyde Road Farms- Lots 9 and 10
PHONE NUMBERS: (770) 654-9172 LOT NUMBERS:
SUBDIVISION: INTENSITY LEVEL OF INVESTIGATION: Level 3
SCALE: 1"=100'

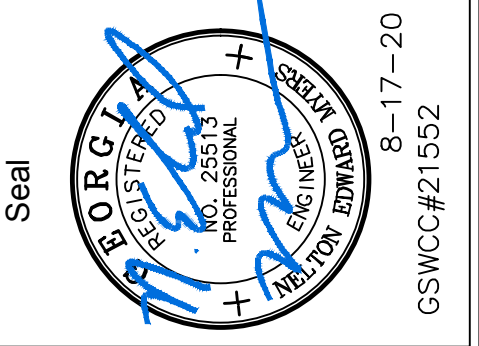
ESTIMATED SOIL PROPERTIES ON MEASUREMENTS						
SOIL SERIES <i>See suitability codes</i>	SLOPE % <i>ranges of the soil type</i>	DEPTH TO BEDROCK (inches)	DEPTH TO SEASONAL HIGH H2O TABLE (inches)	ABSORPTION RATE AT RECOMMENDED TRENCH DEPTH MIN/IN.	DEPTH TO OPTIMUM PERCOLATION (inches)	SUITABILITY CODE <i>(listed below)</i>
Grover	15-20	>72	>72	45	24-48	A
Pacolet	15-20	>72	>72	45	24-48	A

SUITABILITY CODE DESCRIPTIONS AND GENERAL NOTES

A - This type of soil is generally considered to be favorable for use with standard septic systems and should have ability to function as suitable absorption field with proper design, installation, and maintenance. Suitability is determined based on an onsite evaluation by individuals who are approved by GA DHR.



Copyright
2006 MYERS & CO., INC.
ALL RIGHTS RESERVED.
This drawing is the sole property of Myers & Co., Inc. and is not to be reproduced, copied, or stored in any retrieval system, without the written permission of Myers & Co., Inc.



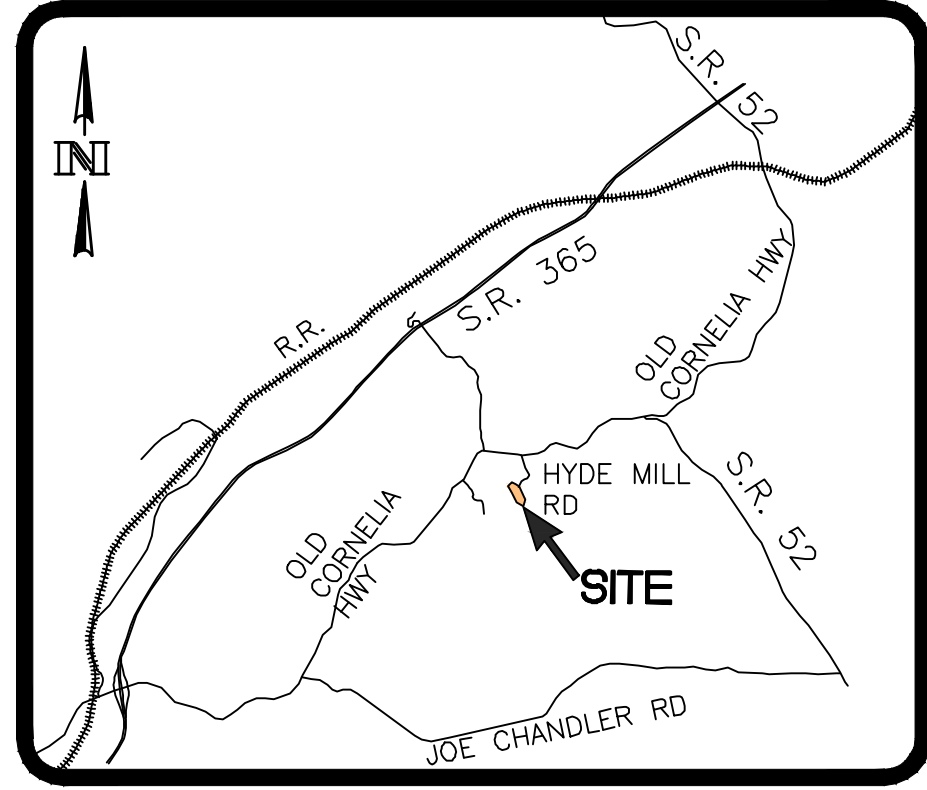
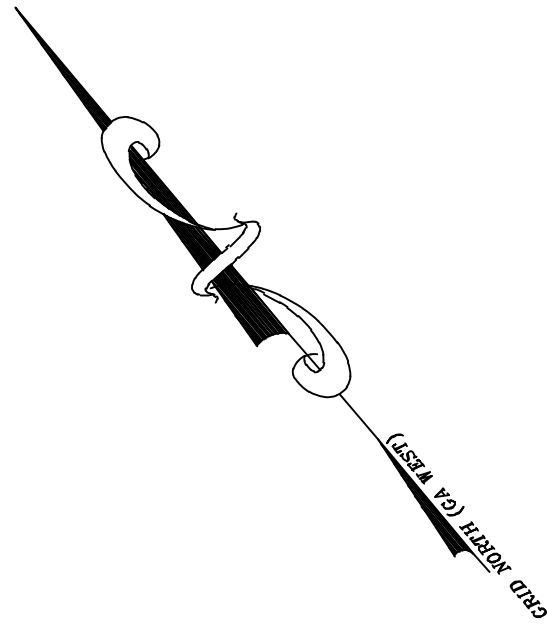
MYERS & CO.
civil engineers
P.O. BOX 634
GAINESVILLE, GA 30503
770-297-9793
ed@myers-and-co.com
8-17-20
GSWCC#21552

Project Description
HYDE MILL FARMS

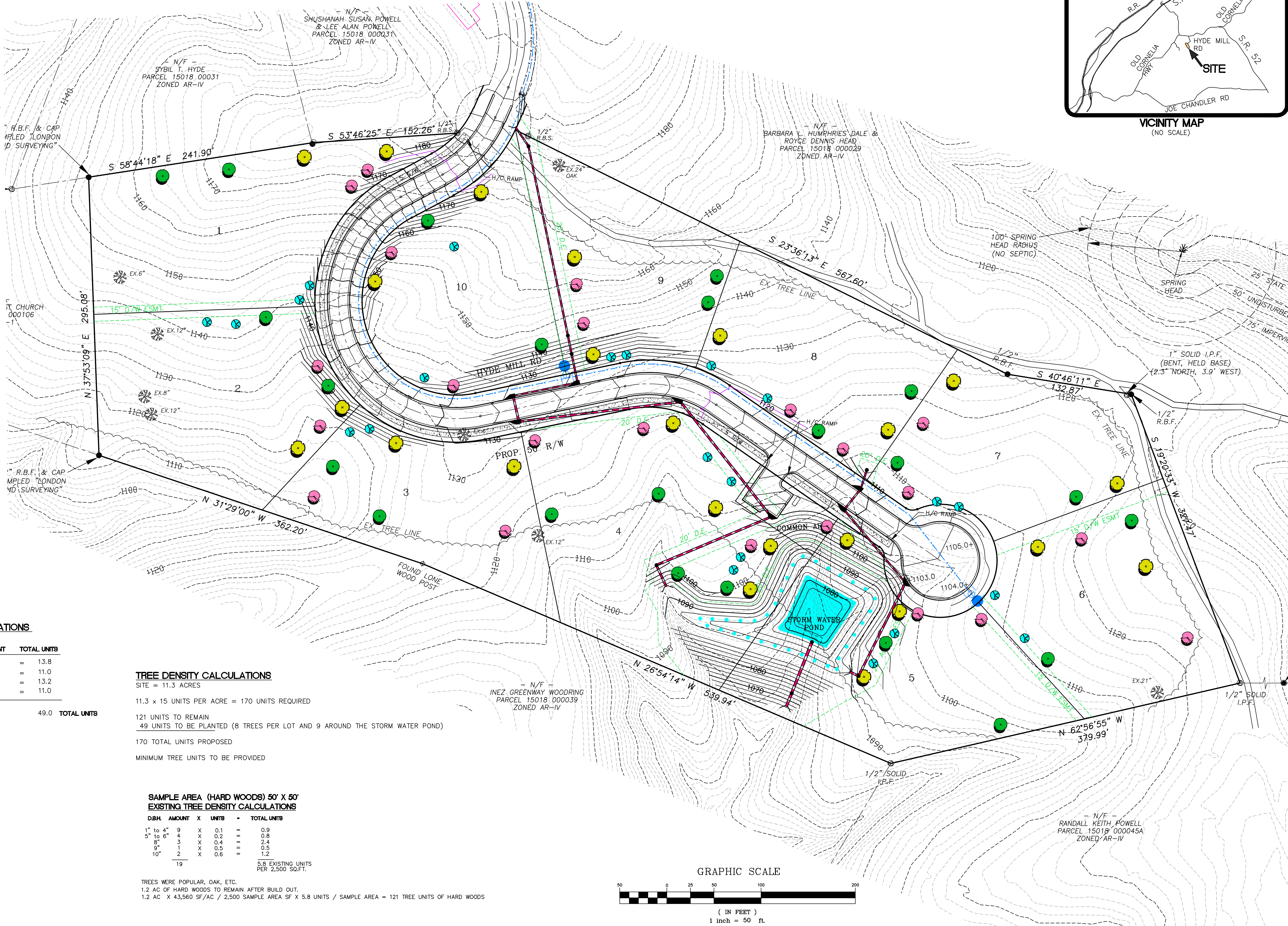
DATE 5-12-20
JOB NO. 19-21
Sheet Title
PROPOSED
SITE PLAN

Revisions
① 8/17/20 - Addressed County comments.

SHEET
C-4



VICINITY MAP
(NO SCALE)



NEW TREE DENSITY CALCULATIONS

TYPE	D.B.H.	AMOUNT	AMOUNT	TOTAL UNITS
OVERCUP OAK	2"	23	x 0.6	= 13.8
RED MAPLE	2"	22	x 0.5	= 11.0
SCARLET OAK	2"	22	x 0.6	= 13.2
SOUTHERN MAGNOLIA	2"	22	x 0.5	= 11.0

89

49.0 TOTAL UNITS

TREE DENSITY CALCULATIONS

SITE = 11.3 ACRES

11.3 x 15 UNITS PER ACRE = 170 UNITS REQUIRED

121 UNITS TO REMAIN

49 UNITS TO BE PLANTED (8 TREES PER LOT AND 9 AROUND THE STORM WATER POND)

170 TOTAL UNITS PROPOSED

MINIMUM TREE UNITS TO BE PROVIDED

SAMPLE AREA (HARD WOODS) 50' X 50'
EXISTING TREE DENSITY CALCULATIONS

D.B.H.	AMOUNT	X	UNITS	=	TOTAL UNITS
1" to 4"	9	X	0.1	=	0.9
5" to 6"	4	X	0.2	=	0.8
8"	3	X	0.4	=	1.2
9"	1	X	0.5	=	0.5
10"	2	X	0.6	=	1.2
	19				

5.8 EXISTING UNITS
PER 2,500 SQ.FT.

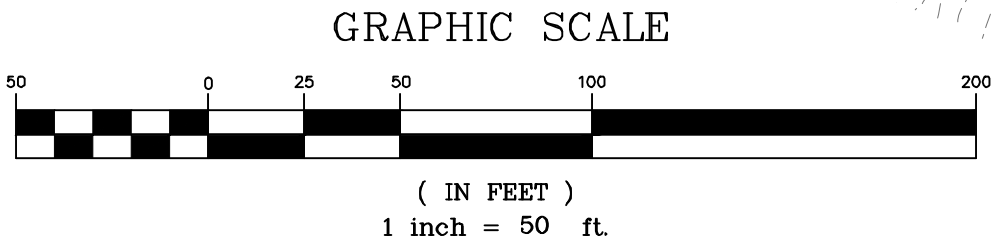
TREES WERE POPULAR, OAK, ETC.

1.2 AC OF HARD WOODS TO REMAIN AFTER BUILD OUT.

1.2 AC X 43,560 SF/AC / 2,500 SAMPLE AREA SF X 5.8 UNITS / SAMPLE AREA = 121 TREE UNITS OF HARD WOODS

PLANT LEGEND

- OVERCUP OAK
- RED MAPLE
- SCARLET OAK
- SOUTHERN MAGNOLIA



Copyright

Seal

MYERS & CO.
civil engineers

Project Description
HYDE MILL FARMS

DATE 5-12-20

Revisions
① 8/17/20 - Addressed
County comments.

SHEET

JOB NO. 19-21

Sheet Title

C-5

TREE PLAN

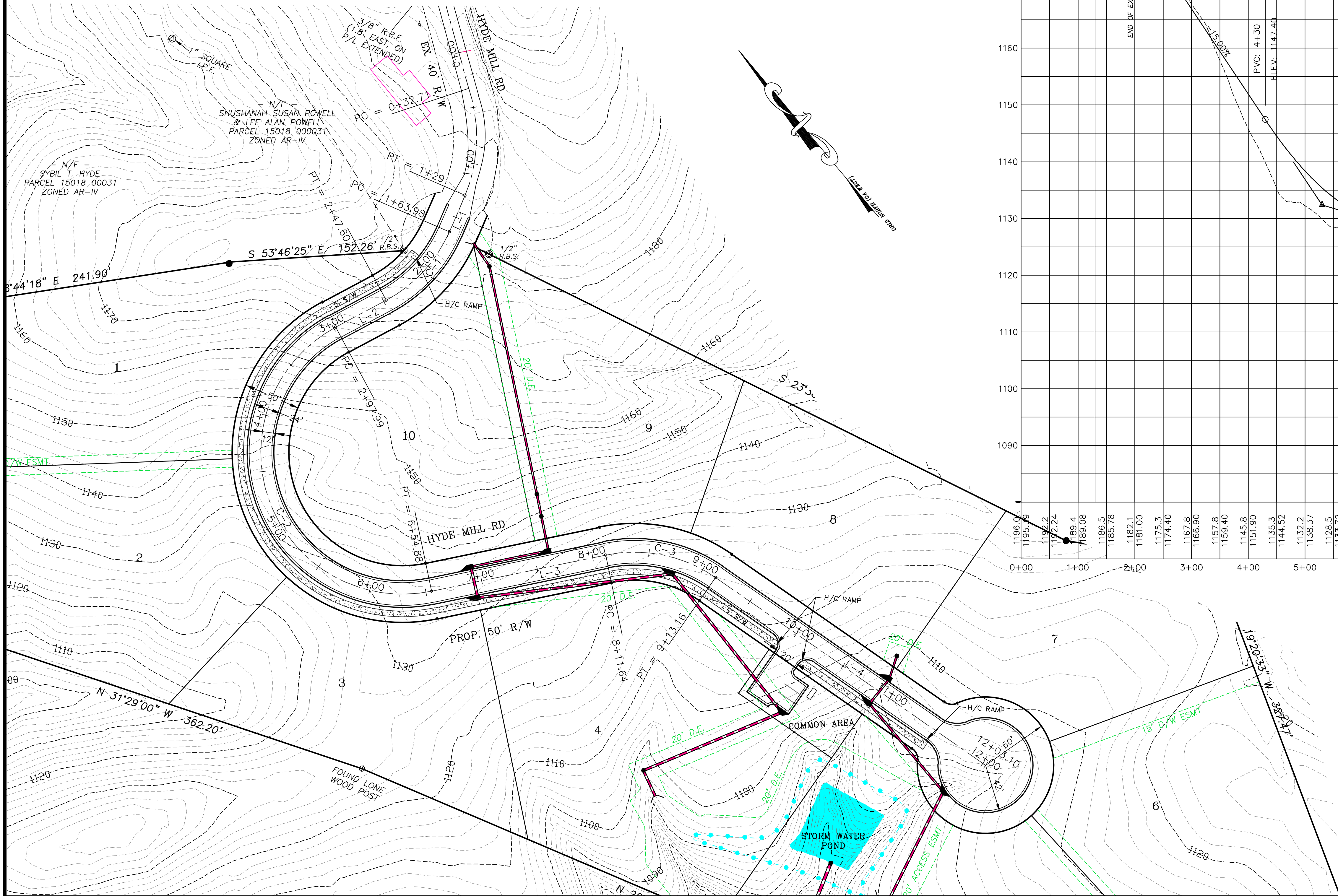
GLADES G.M.D. 403
HALL COUNTY, GEORGIA

770-297-9793
es@myers-and-co.com

P.O. BOX 634
GAINESVILLE, GA 30603

8-17-20
GSWCC#21552

2020
MYERS & CO. INC.
ALL RIGHTS RESERVED.
This drawing is the sole property of Myers & Co. Inc. and is not to be reproduced, copied, or stored in any retrieval system, without the written permission of Myers & Co. Inc. in any way without the written permission of Myers & Co. Inc.



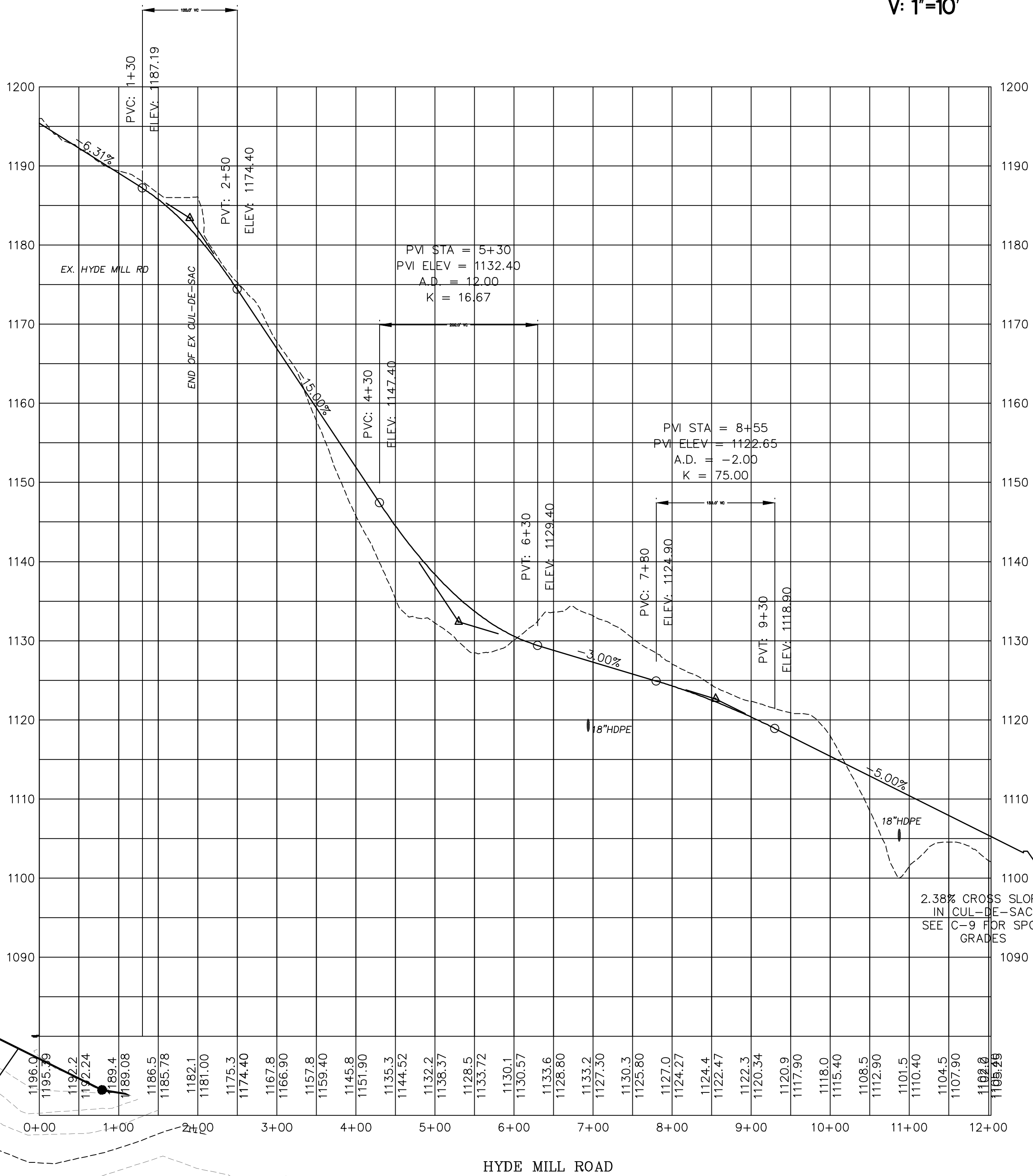
CENTER LINE DATA

LINE	BEARING	DISTANCE
L1	S63°32'19"W	34.98'
L2	N78°08'07"W	50.39'
L3	S16°43'18"E	156.76'
L4	S15°11'24"E	298.94'

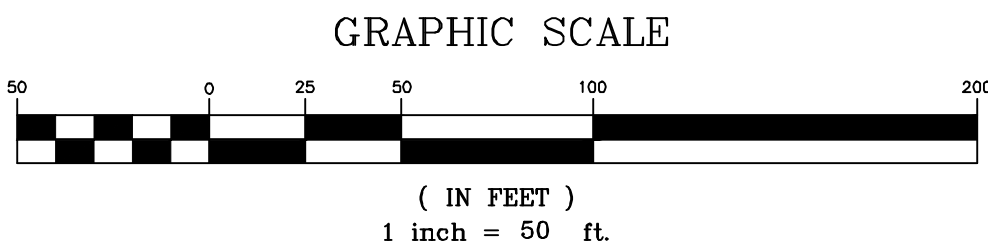
CENTER LINE CURVE DATA

CURVE	RADIUS	LENGTH	CHORD	BEARING
C1	125.00'	83.61'	82.06'	S82°42'06"W
C2	125.00'	356.89'	247.44'	S20°04'17"W
C3	125.00'	101.52'	98.75'	S38°27'21"E

PVI STA = 1+90
PVI ELEV = 1183.40
A.D. = -8.69
K = 13.81

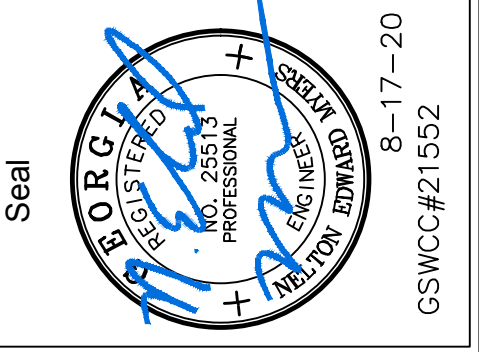


NOTE:
1. L-BACK CURB THROUGHOUT THE DEVELOPMENT.



SCALE H: 1"=100'
V: 1"=10'

Copyright
2020 MYERS & CO., INC.
ALL RIGHTS RESERVED.
This drawing is the sole property of Myers & Co., Inc. and is not to be reproduced, copied, or stored in any retrieval system, without the written consent of Myers & Co., Inc. Any unauthorized use of this drawing is prohibited and may result in legal action.



MYERS & CO.
civil engineers

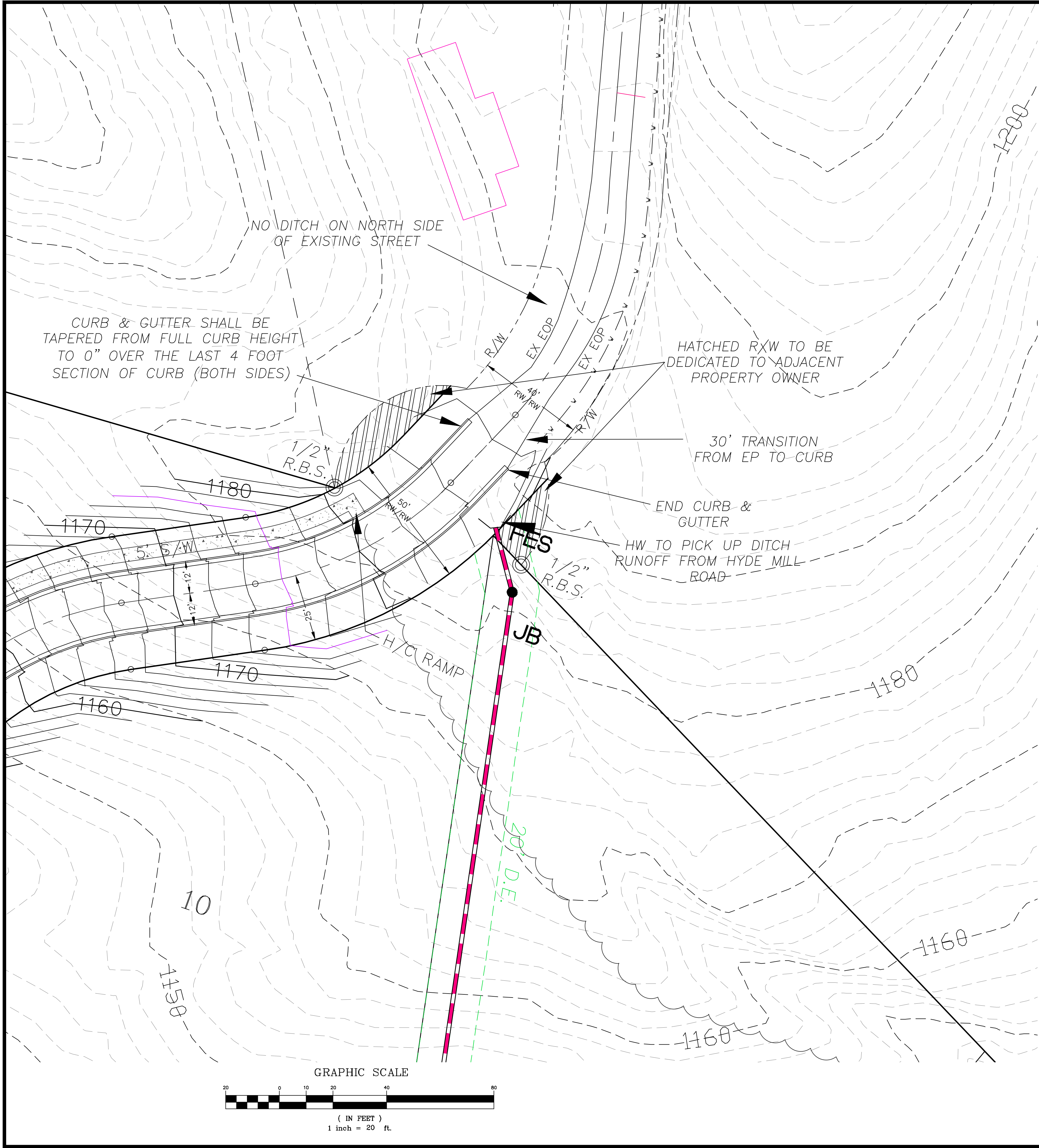
P.O. BOX 634
GAINESVILLE, GA 30603
770-297-9793
info@myers-and-co.com

Project Description
HYDE MILL FARMS

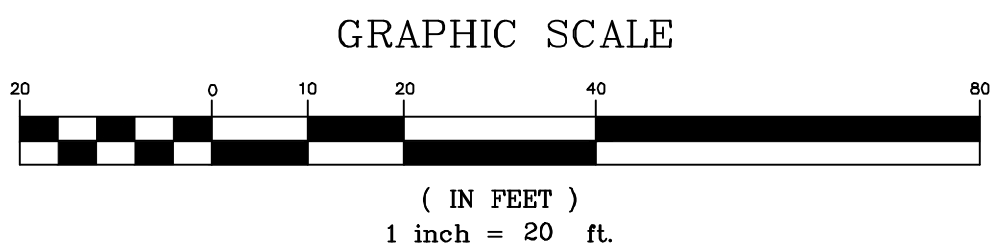
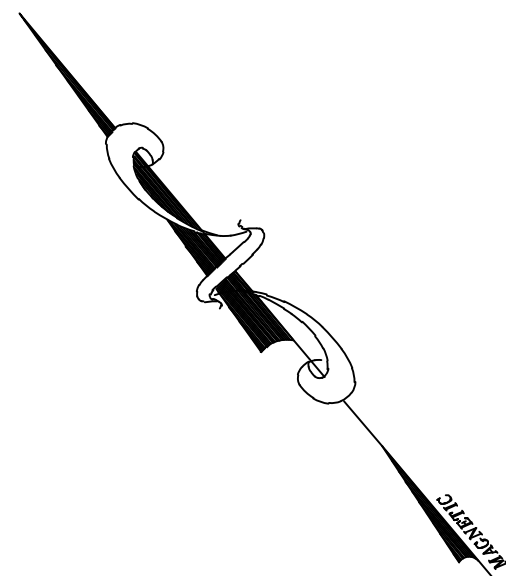
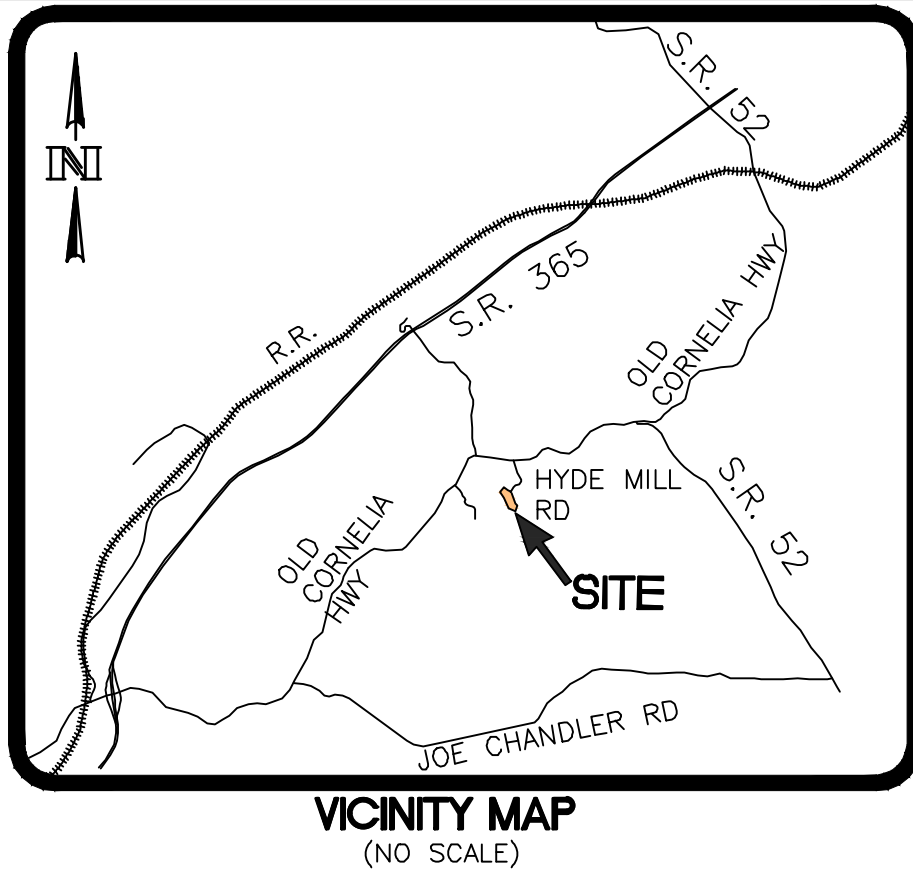
DATE 5-12-20
JOB NO. 19-21
Sheet Title
ROAD PLAN & PROFILE

Revisions
① 8/17/20 - Addressed County comments.

SHEET
C-6



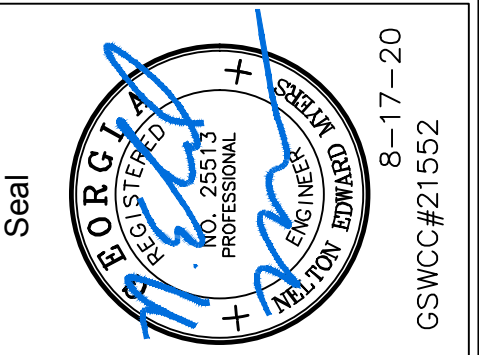
- NOTES:
1. CONTACT HALL COUNTY ENGINEERING AT (770) 531-6800 24 HOURS (MINIMUM) PRIOR TO REQUIRED INSPECTIONS. HALL COUNTY ENGINEERING MUST INSPECT SUBGRADE, BASE AND BE PRESENT DURING PAVING.
 2. SAWCUT REQUIRED AT EDGE OF PAVEMENT TO PROVIDE JOINT UNIFORMITY.
 3. ALL TEMPORARY TRAFFIC CONTROL MUST BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
 4. THE POSTED SPEED IS 25 MPH.
 5. THE EXISTING CUL-DE-SAC WILL BE COMPLETELY DEMOLISHED. THE DEMOLISHED DEBRIS WILL BE HAULED OFF SITE IN A LEGAL MANOR.



Copyright

2020 MYERS & CO. ALL RIGHTS RESERVED.

This drawing is the sole property of Myers & Co. and is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of Myers & Co.



MYERS & CO.
civil engineers

P.O. BOX 634
GAINESVILLE, GA 30603

770-597-5753
ed@myers-and-co.com

Project Description

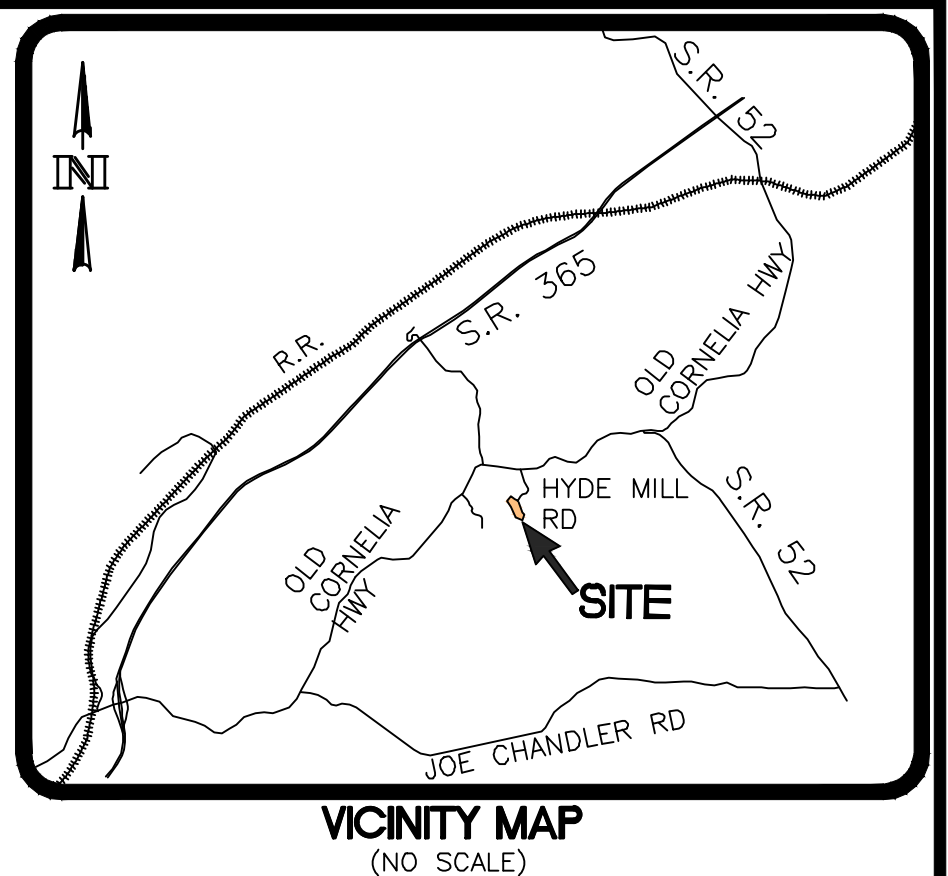
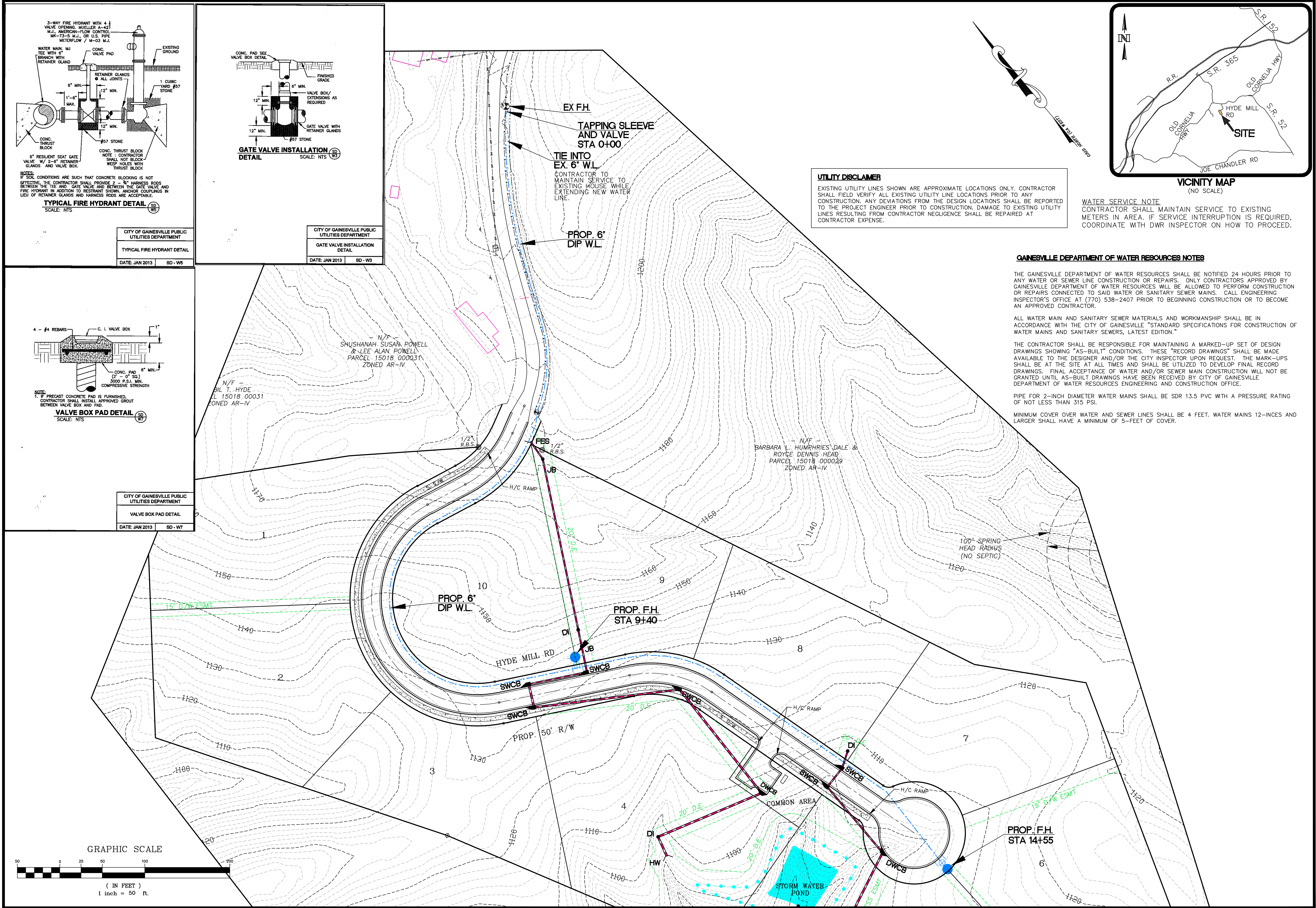
HYDE MILL FARMS

GLADES C.M.D. - 403
HALL COUNTY, GEORGIA

Revisions	DATE	5-12-20
① 8/17/20 - Addressed County comments.	JOB NO.	19-21
	Sheet Title	ENTRANCE PLAN

SHEET

C-7



UTILITY DISCLAIMER

EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE PROJECT ENGINEER PRIOR TO CONSTRUCTION. DAMAGE TO EXISTING UTILITY LINES RESULTING FROM CONTRACTOR NEGLIGENCE SHALL BE REPAIRED AT CONTRACTOR EXPENSE.

WATER SERVICE NOTE

CONTRACTOR SHALL MAINTAIN SERVICE TO EXISTING METERS IN AREA. IF SERVICE INTERRUPTION IS REQUIRED, COORDINATE WITH DWR INSPECTOR ON HOW TO PROCEED.

GAINESVILLE DEPARTMENT OF WATER RESOURCES NOTES

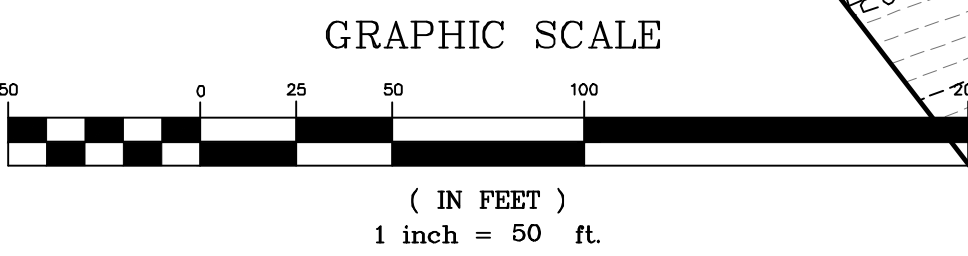
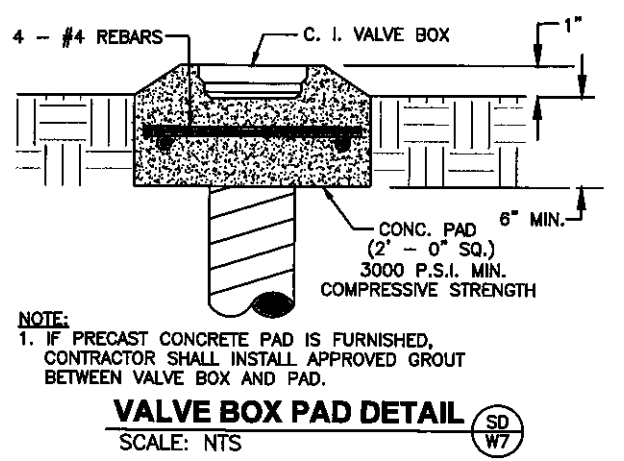
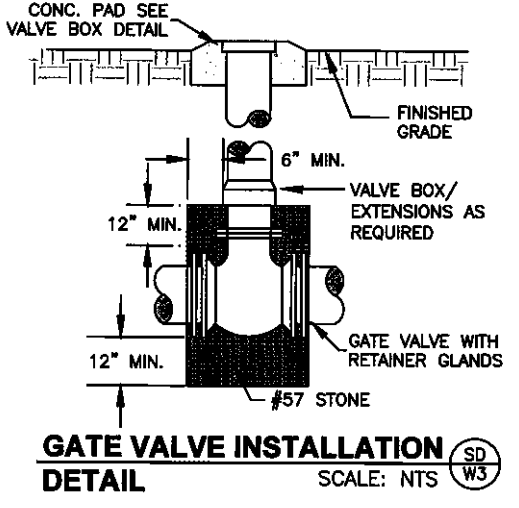
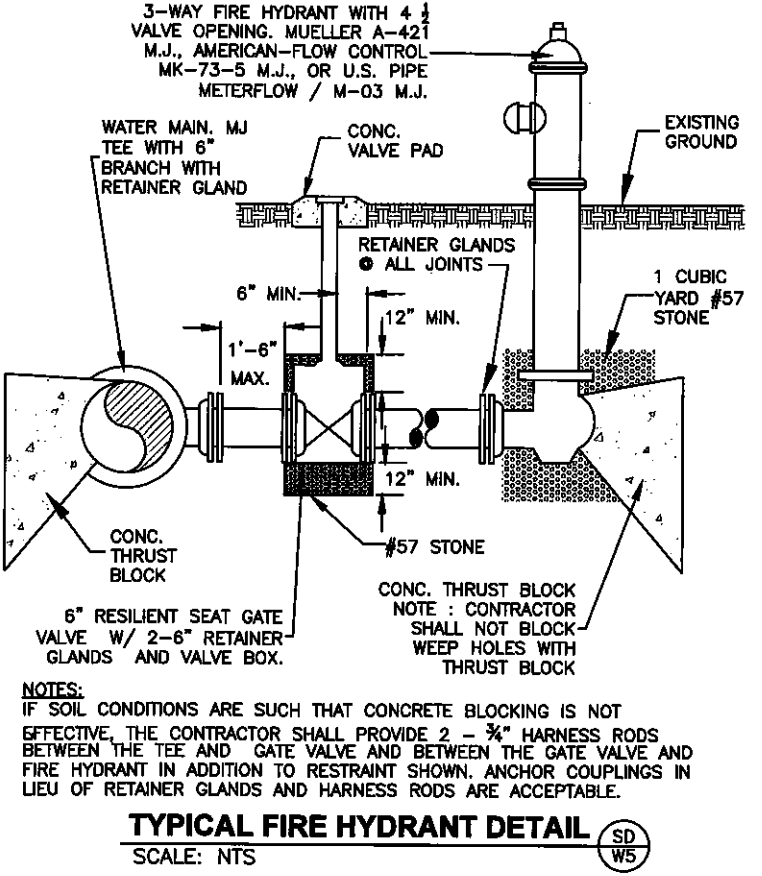
THE GAINESVILLE DEPARTMENT OF WATER RESOURCES SHALL BE NOTIFIED 24 HOURS PRIOR TO ANY WATER OR SEWER LINE CONSTRUCTION OR REPAIRS. ONLY CONTRACTORS APPROVED BY GAINESVILLE DEPARTMENT OF WATER RESOURCES WILL BE ALLOWED TO PERFORM CONSTRUCTION OR REPAIRS CONNECTED TO SAID WATER OR SANITARY SEWER MAINS. CALL ENGINEERING INSPECTOR'S OFFICE AT (770) 538-2407 PRIOR TO BEGINNING CONSTRUCTION OR TO BECOME AN APPROVED CONTRACTOR.

ALL WATER MAIN AND SANITARY SEWER MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CITY OF GAINESVILLE "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF WATER MAINS AND SANITARY SEWERS, LATEST EDITION."

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING A MARKED-UP SET OF DESIGN DRAWINGS SHOWING "AS-BUILT" CONDITIONS. THESE "RECORD DRAWINGS" SHALL BE MADE AVAILABLE TO THE DESIGNER AND/OR THE CITY INSPECTOR UPON REQUEST. THE MARK-UPS SHALL BE AT THE SITE AT ALL TIMES AND SHALL BE UTILIZED TO DEVELOP FINAL RECORD DRAWINGS. FINAL ACCEPTANCE OF WATER AND/OR SEWER MAIN CONSTRUCTION WILL NOT BE GRANTED UNTIL AS-BUILT DRAWINGS HAVE BEEN RECEIVED BY CITY OF GAINESVILLE DEPARTMENT OF WATER RESOURCES ENGINEERING AND CONSTRUCTION OFFICE.

PIPE FOR 2-INCH DIAMETER WATER MAINS SHALL BE SDR 13.5 PVC WITH A PRESSURE RATING OF NOT LESS THAN 315 PSI.

MINIMUM COVER OVER WATER AND SEWER LINES SHALL BE 4 FEET. WATER MAINS 12-INCHES AND LARGER SHALL HAVE A MINIMUM OF 5-FEET OF COVER.



Copyright

2020 MYERS & CO. ALL RIGHTS RESERVED.

This drawing is the sole property of Myers & Co. and is to be used only for the specific project and location identified herein. It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, or in any way without the prior permission of Myers & Co.

Seal

REGISTERED PROFESSIONAL ENGINEER

NO. 25513

STATE OF GEORGIA

CSWCC#21552

8-17-20

Project Description

HYDE MILL FARMS

DATE

5-12-20

JOB NO.

19-21

Sheet Title

WATER PLAN

Revisions

① 8/17/20 - Addressed County comments.

SHEET

C-8

MYERS & CO. civil engineers

P.O. BOX 634

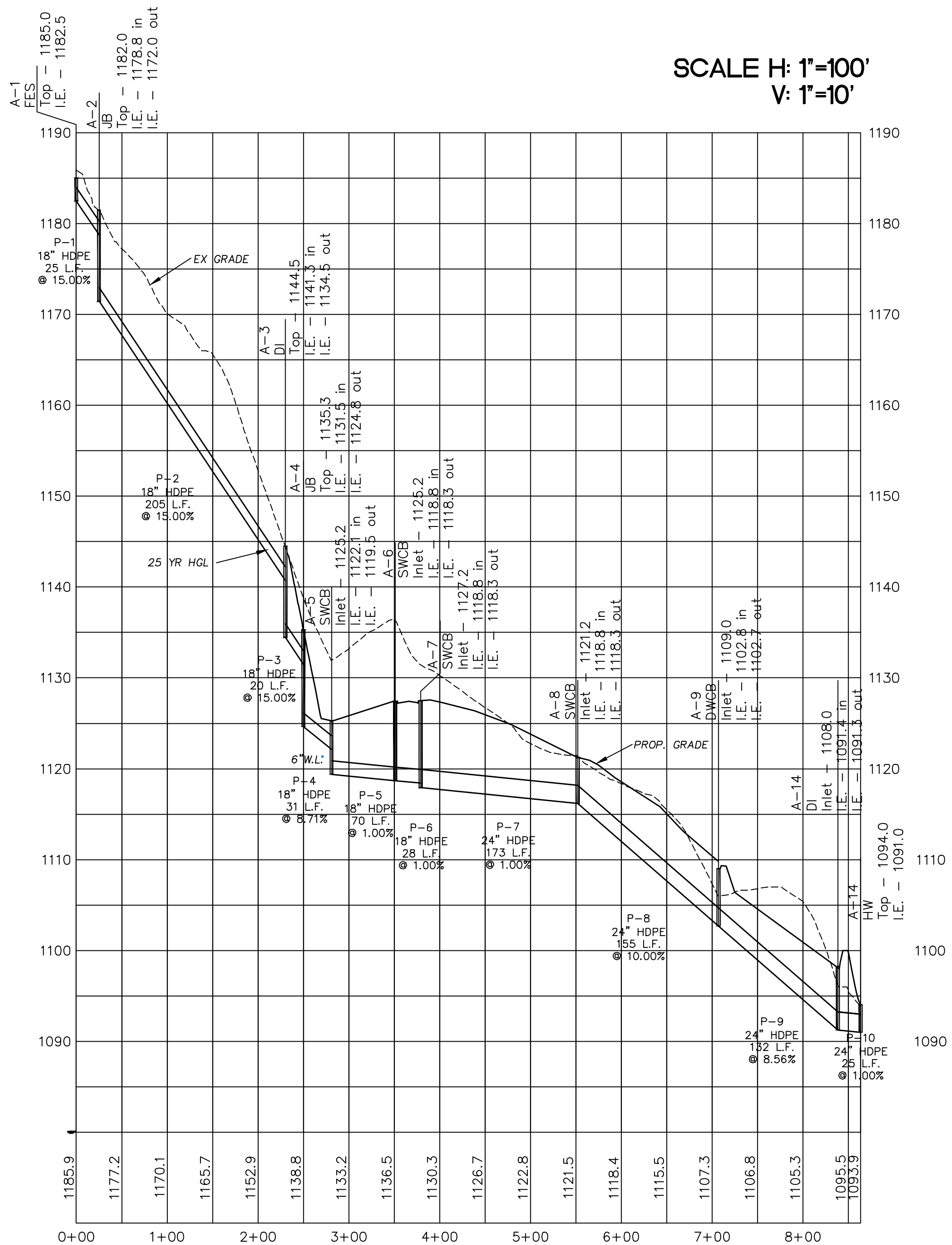
GAINESVILLE, GA 30603

770-297-9793

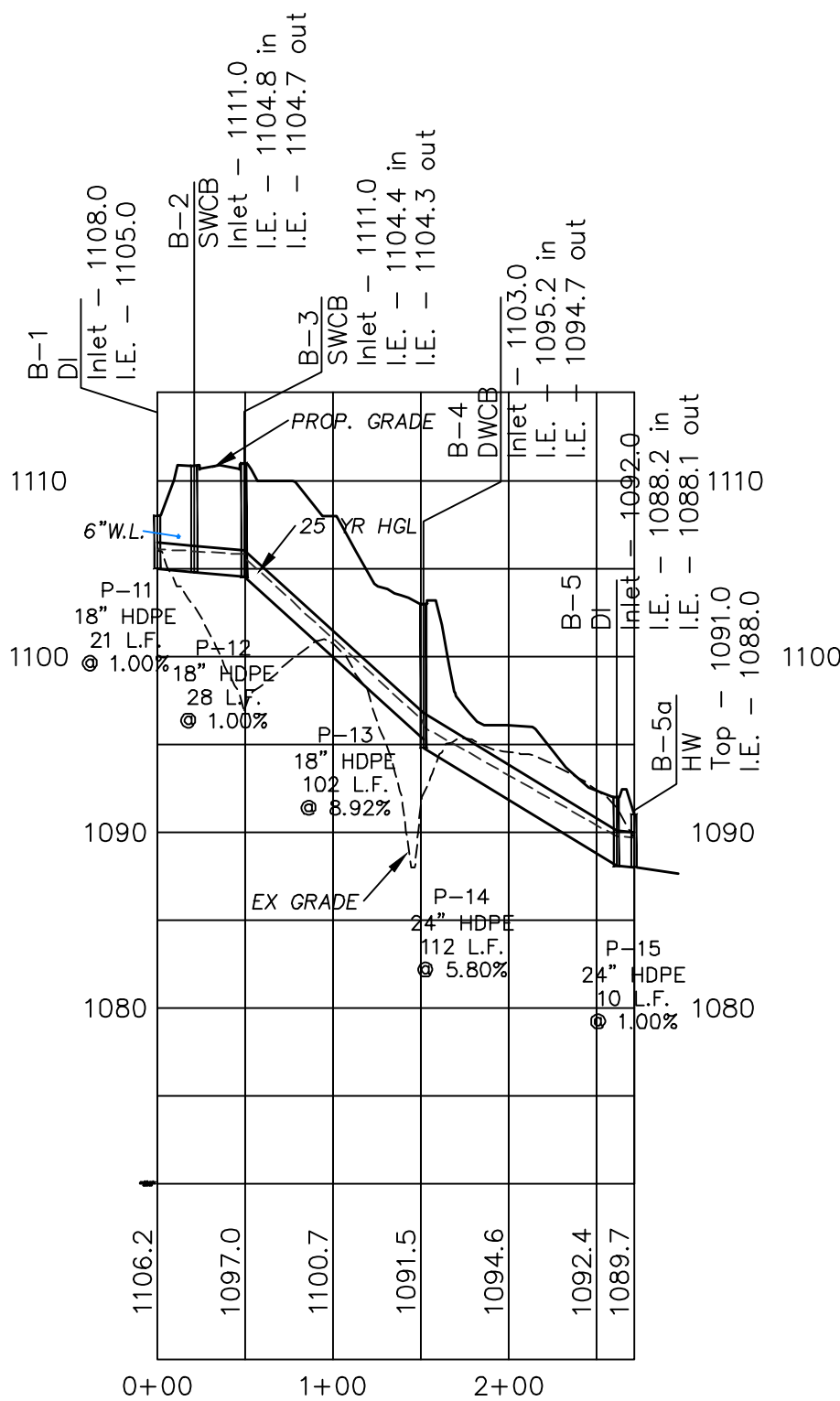
ed@myers-and-co.com

GLADES G.M.D. 403

HALL COUNTY, GEORGIA



STORM PIPES 1-10



STORM PIPES 11-15

PIPE CHART

PIPE NO.	UPSTREAM STRUCTURE	INLET STRUCTURE	SIZE (IN.)	LENGTH	SLOPE	TOTAL AC	TOTAL Q	T.C.	I-25 YR	C	DELTA AC	DELTA Q	RETURN YR.	VELOCITY	MATERIAL
P-1	A-1	FES	18	25	15.00	0.90	3.4	5	8.33	0.45	0.90	3.4	25	6.8	HDPE
P-2	A-2	JB	18	205	15.00	0.90	3.4	5	8.33	0.00	0.00	0.0	25	6.8	HDPE
P-3	A-3	DI	18	20	15.00	1.17	4.3	5	8.33	0.40	0.27	0.9	25	6.9	HDPE
P-4	A-4	JB	18	31	8.71	1.17	4.3	5	8.33	0.40	0.00	0.0	25	6.3	HDPE
P-5	A-5	SWCB	18	70	1.00	1.30	4.8	5	8.33	0.50	0.13	0.5	25	4.3	HDPE
P-6	A-6	SWCB	18	28	1.00	2.30	9.0	5	8.33	0.50	1.00	4.2	25	4.8	HDPE
P-7	A-7	SWCB	24	173	1.00	3.03	12.9	5	8.33	0.65	0.73	3.9	25	4.5	HDPE
P-8	A-8	SWCB	24	155	10.00	3.13	13.5	5	8.33	0.65	0.10	0.5	25	4.6	HDPE
P-9	A-9	DWCB	24	132	8.56	3.21	14.0	5	8.33	0.85	0.08	0.6	25	4.6	HDPE
P-10	A-10	DI	24	25	1.00	3.83	16.1	5	8.33	0.40	0.62	2.1	25	4.6	HDPE
P-11	B-1	DI	18	21	1.00	1.42	4.7	5	8.33	0.40	1.42	4.7	25	4.1	HDPE
P-12	B-2	SWCB	18	28	1.00	2.27	7.9	5	8.33	0.45	0.85	3.2	25	4.1	HDPE
P-13	B-3	SWCB	18	102	8.92	2.38	8.7	5	8.33	0.85	0.11	0.8	25	4.6	HDPE
P-14	B-4	DWCB	24	112	5.80	4.08	13.7	5	8.33	0.35	1.70	5.0	25	4.6	HDPE
P-15	B-5	DI	24	10	1.00	4.48	15.0	5	8.33	0.40	0.40	1.3	25	5.5	HDPE
P-16	C-1	OCS	24	59	10.00	SEE SWMR							100	7.8	RCP
P-17	C-2	JB	24	15	1.00	SEE SWMR							100	4.8	RCP

- NOTES:
- HDPE PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-294 AND AASHTO MP7, TYPE S & D. CONNECTIONS SHALL USE A RUBBER GASKET, WHICH CONFORMS TO ASTM F-477. INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM RECOMMENDED PRACTICE D-2321, AASHTO SECTION 30, OR WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.
 - ALL REINFORCED CONCRETE PIPE (RCP) SHALL MEET GA. D.O.T. STANDARDS.
 - ALL STORM PIPE LENGTHS ARE MEASURED FROM CENTER OF INLET STRUCTURE TO CENTER OF OUTLET STRUCTURE.
 - ALL RCP PIPE JOINTS SHALL BE BELL & SPIGOT TYPES WITH A RUBBER GASKET CONFORMING TO ASTM C-443. THE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO M-170 AND/OR ASTM C-76. CLASS OF PIPE AND WALL THICKNESS SHALL BE IN ACCORDANCE WITH 1030-D, GEORGIA DOT SPECIFICATION, TABLE NO. 1. INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 550 OF THE GEORGIA DOT STANDARD SPECIFICATIONS, CONSTRUCTION OF ROADS AND BRIDGES.

Project Description

HYDE MILL FARMS

GLADES G.M.D. 403
HALL COUNTY, GEORGIA

DATE 5-12-20

JOB NO. 19-21

Sheet Title
STORMWATER
DETAILS

Revisions
① 8/17/20 -Addressed
County comments.

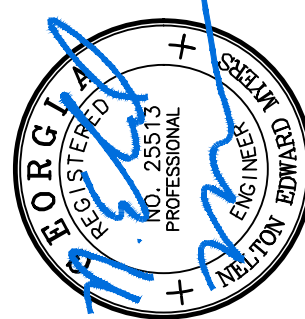
SHEET

C-10

Copyright

2020
MYERS & COMPANY, INC.
ALL RIGHTS RESERVED.
This drawing is the sole property of Myers & Company, Inc. and is to be used only for the specific project and location identified herein. It is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, or in any way without the prior permission of Myers & Co.

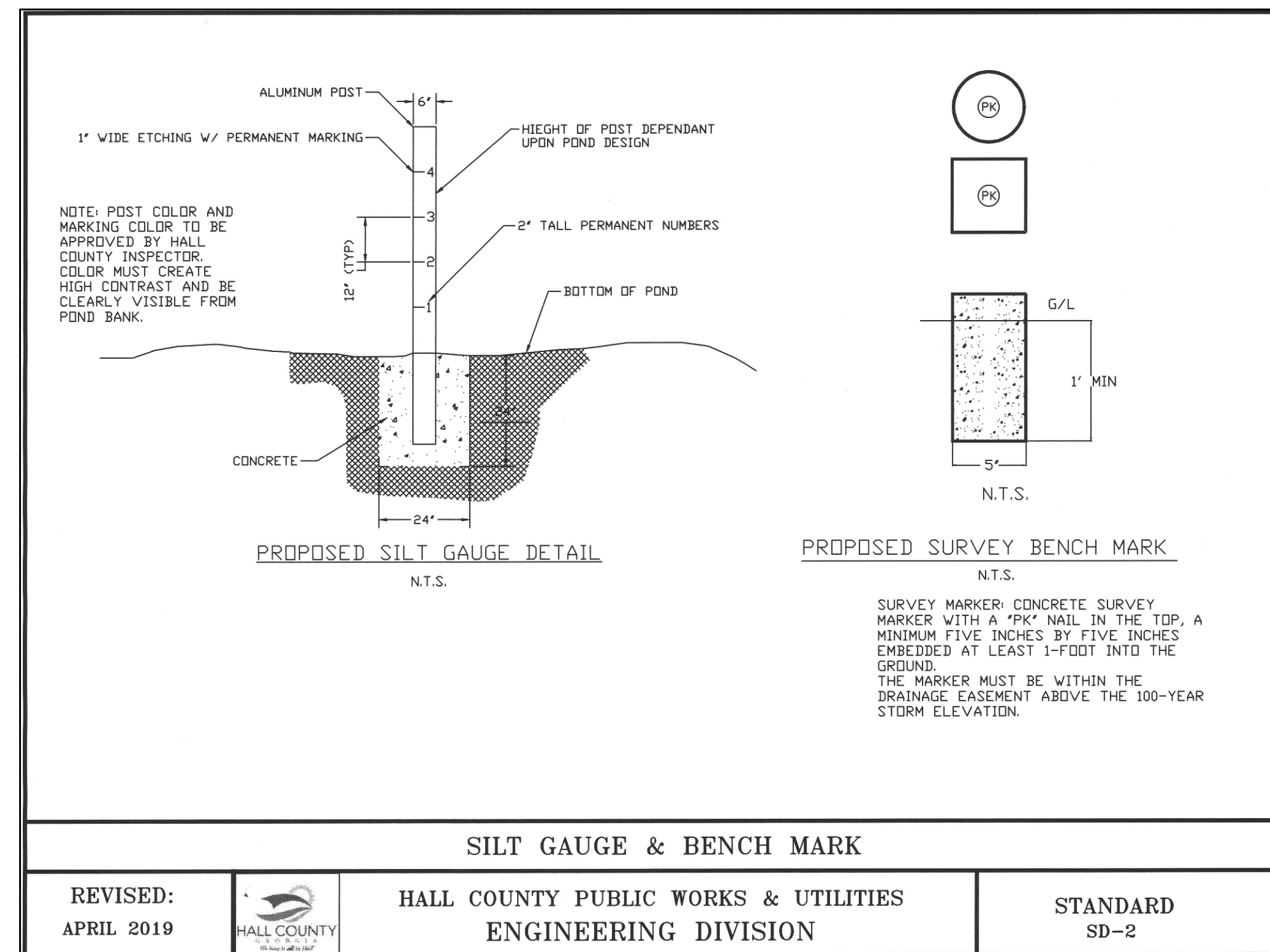
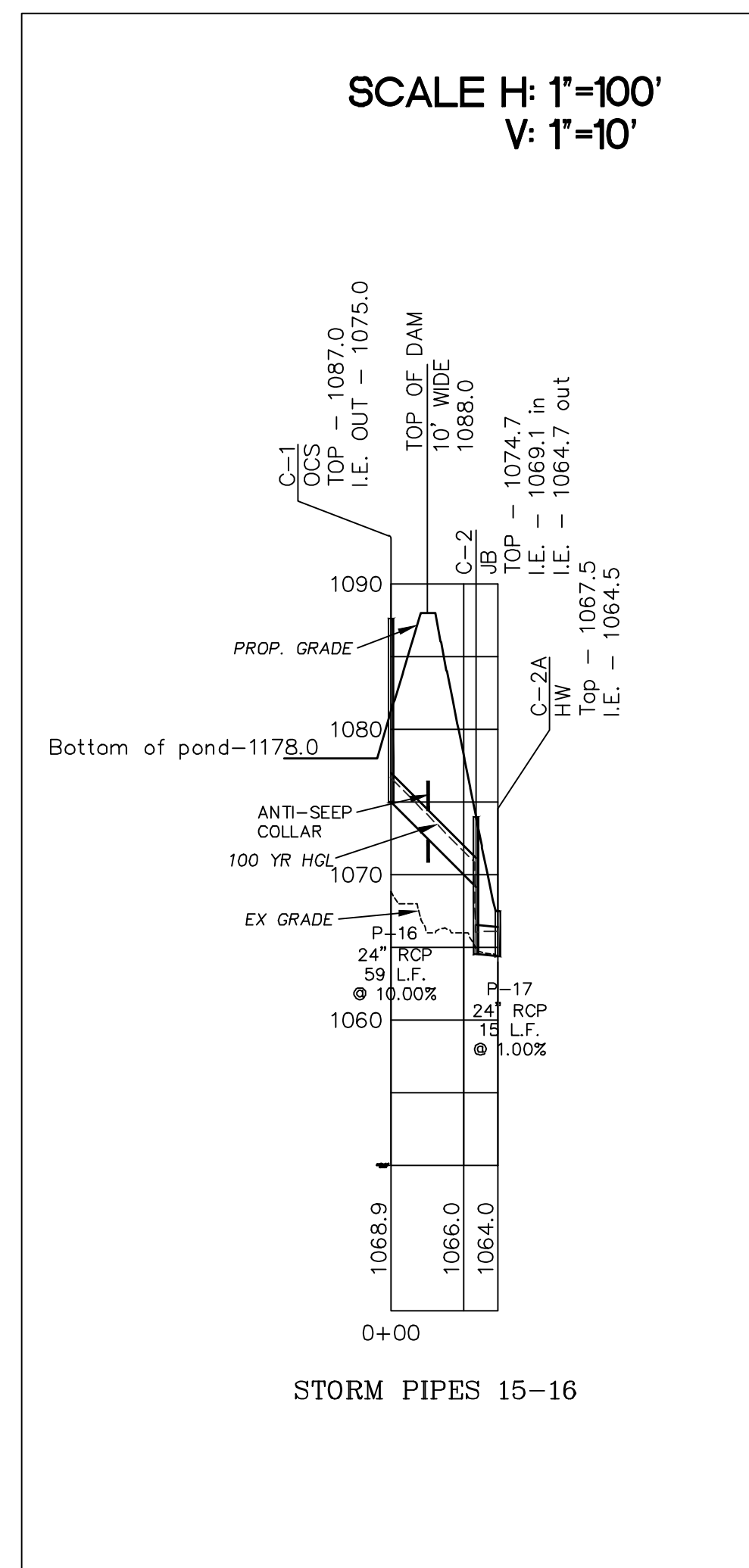
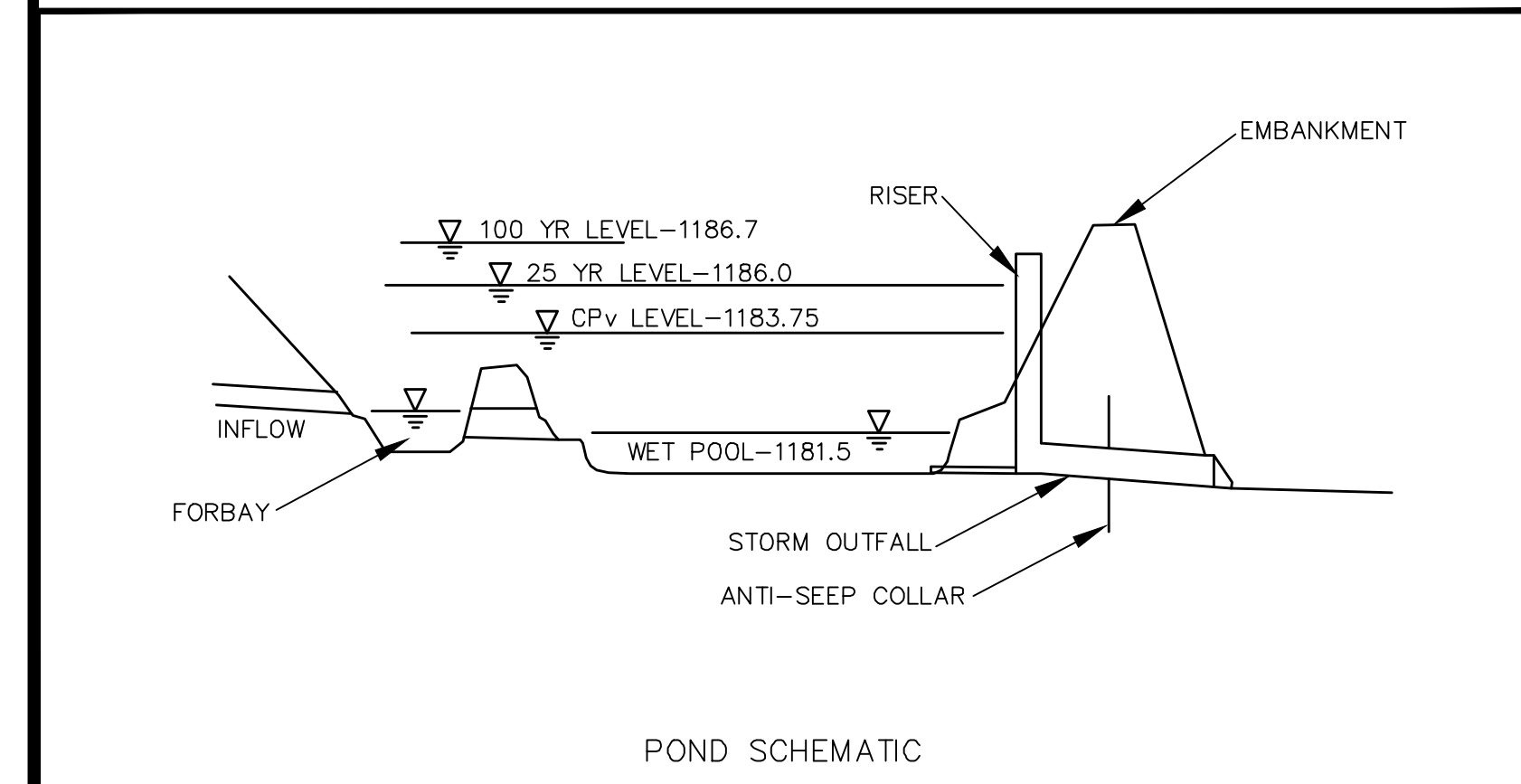
Seal



GSWCC#21552
8-17-20

MYERS & CO.
civil engineers

P.O. BOX 614
GAINESVILLE, GA 30603
770-297-9793
ed@myers-and-co.com



Copyright

2020
MYERS & COMPANY, INC.
ALL RIGHTS RESERVED.

This drawing is the sole property of Myers and no part of this drawing may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, printed, or otherwise, without the written permission of Myers & Co.

Seal



8-17-20
GSWCC#21552

MYERS & CO.
civil engineers

P.O. BOX 634
GAINESVILLE, GA 30503

770-297-9793
ed@myers-and-co.com

Project Description	HYDE MILL FARMS GLADES G.M.D., 403 HALL COUNTY, GEORGIA
---------------------	---

DATE	5-12-20
JOB NO.	19-21
Sheet Title STORMWATER DETAILS	

Revisions				
①	8/17/20	– Addressed County comments.		

SHEET

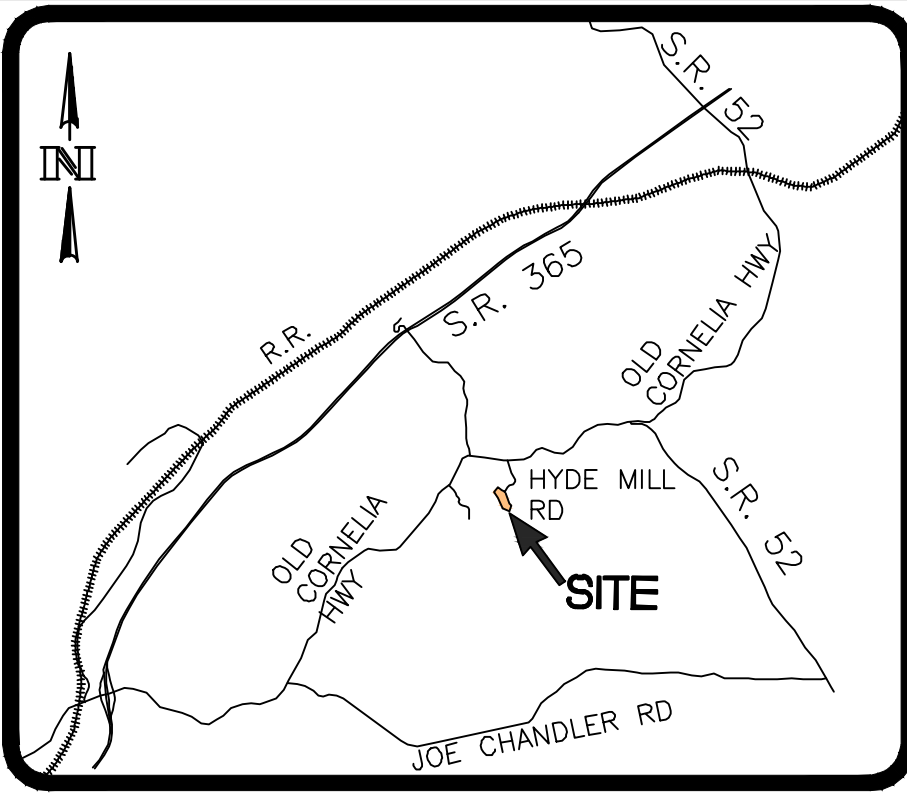
C-11

NOTE: CONTRACTOR TO NOTIFY THE UTILITIES PROTECTION CENTER 72 HOURS PRIOR TO STARTING CONSTRUCTION 1-800-282-7411, MONDAY THRU FRIDAY 7:00 A.M. TO 4:30 P.M.

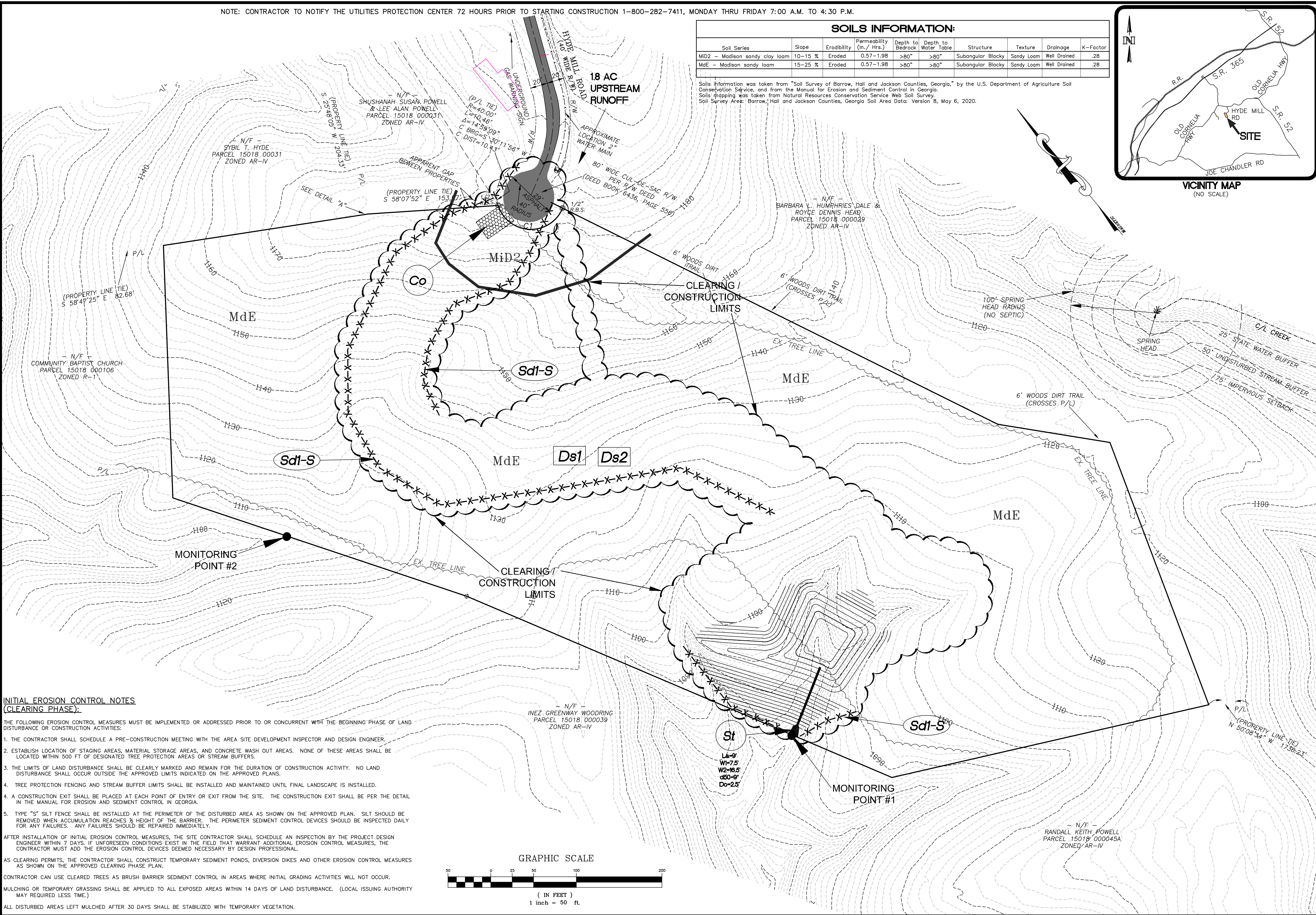
SOILS INFORMATION:

Soil Series	Slope	Erodibility	Permeability (in./ Hrs.)	Depth to Bedrock	Depth to Water Table	Structure	Texture	Drainage	K-Factor
Mid2 - Madison sandy clay loam	10-15 %	Eroded	0.57-1.98	>80"	>80"	Subangular Blocky	Sandy Loam	Well Drained	.28
MdE - Madison sandy loam	15-25 %	Eroded	0.57-1.98	>80"	>80"	Subangular Blocky	Sandy Loam	Well Drained	.28

Soils information was taken from "Soil Survey of Barrow, Hall and Jackson Counties, Georgia," by the U.S. Department of Agriculture Soil Conservation Service, and from the Manual for Erosion and Sediment Control in Georgia.
Soils mapping was taken from Natural Resources Conservation Service Web Soil Survey.
Soil Survey Area: Barrow, Hall and Jackson Counties, Georgia Soil Area Data: Version 8, May 6, 2020.



VICINITY MAP
(NO SCALE)



INITIAL EROSION CONTROL NOTES (CLEARING PHASE):

THE FOLLOWING EROSION CONTROL MEASURES MUST BE IMPLEMENTED OR ADDRESSED PRIOR TO OR CONCURRENT WITH THE BEGINNING PHASE OF LAND DISTURBANCE OR CONSTRUCTION ACTIVITIES:

- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE AREA SITE DEVELOPMENT INSPECTOR AND DESIGN ENGINEER.
- ESTABLISH LOCATION OF STAGING AREAS, MATERIAL STORAGE AREAS, AND CONCRETE WASH OUT AREAS. NONE OF THESE AREAS SHALL BE LOCATED WITHIN 500 FT OF DESIGNATED TREE PROTECTION AREAS OR STREAM BUFFERS.
- THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY MARKED AND REMAIN FOR THE DURATION OF CONSTRUCTION ACTIVITY. NO LAND DISTURBANCE SHALL OCCUR OUTSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
- TREE PROTECTION FENCING AND STREAM BUFFER LIMITS SHALL BE INSTALLED AND MAINTAINED UNTIL FINAL LANDSCAPE IS INSTALLED.
- A CONSTRUCTION EXIT SHALL BE PLACED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE. THE CONSTRUCTION EXIT SHALL BE PER THE DETAIL IN THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- TYPE "S" SILT FENCE SHALL BE INSTALLED AT THE PERIMETER OF THE DISTURBED AREA AS SHOWN ON THE APPROVED PLAN. SILT SHOULD BE REMOVED WHEN ACCUMULATION REACHES 1/2 HEIGHT OF THE BARRIER. THE PERIMETER SEDIMENT CONTROL DEVICES SHOULD BE INSPECTED DAILY FOR ANY FAILURES. ANY FAILURES SHOULD BE REPAIRED IMMEDIATELY.

AFTER INSTALLATION OF INITIAL EROSION CONTROL MEASURES, THE SITE CONTRACTOR SHALL SCHEDULE AN INSPECTION BY THE PROJECT DESIGN ENGINEER WITHIN 7 DAYS. IF UNFORESEEN CONDITIONS EXIST IN THE FIELD THAT WARRANT ADDITIONAL EROSION CONTROL MEASURES, THE CONTRACTOR MUST ADD THE EROSION CONTROL DEVICES DEEMED NECESSARY BY DESIGN PROFESSIONAL.

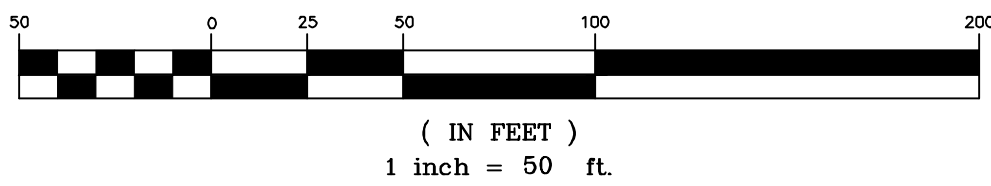
AS CLEARING PERMITS, THE CONTRACTOR SHALL CONSTRUCT TEMPORARY SEDIMENT PONDS, DIVERSION DIKES AND OTHER EROSION CONTROL MEASURES AS SHOWN ON THE APPROVED CLEARING PHASE PLAN.

CONTRACTOR CAN USE CLEARED TREES AS BRUSH BARRIER SEDIMENT CONTROL IN AREAS WHERE INITIAL GRADING ACTIVITIES WILL NOT OCCUR.

MULCHING OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF LAND DISTURBANCE. (LOCAL ISSUING AUTHORITY MAY REQUIRED LESS TIME.)

ALL DISTURBED AREAS LEFT MULCHED AFTER 30 DAYS SHALL BE STABILIZED WITH TEMPORARY VEGETATION.

GRAPHIC SCALE



Copyright

2020
MYERS & CO. INC.
ALL RIGHTS RESERVED.
This drawing is the sole property of Myers & Co. Inc. and is not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, recording, or in any way without the prior permission of Myers & Co.

Seal

REGISTERED PROFESSIONAL ENGINEER
NO. 25513
STATE OF GEORGIA
EXPIRES 12/31/2024
CSWCC#21552
8-17-20

MYERS & CO.
civil engineers

770-297-9793
ed@myers-and-co.com
P.O. BOX 634
GAINESVILLE, GA 30603

Project Description

HYDE MILL FARMS

DATE 5-12-20

JOB NO. 19-21

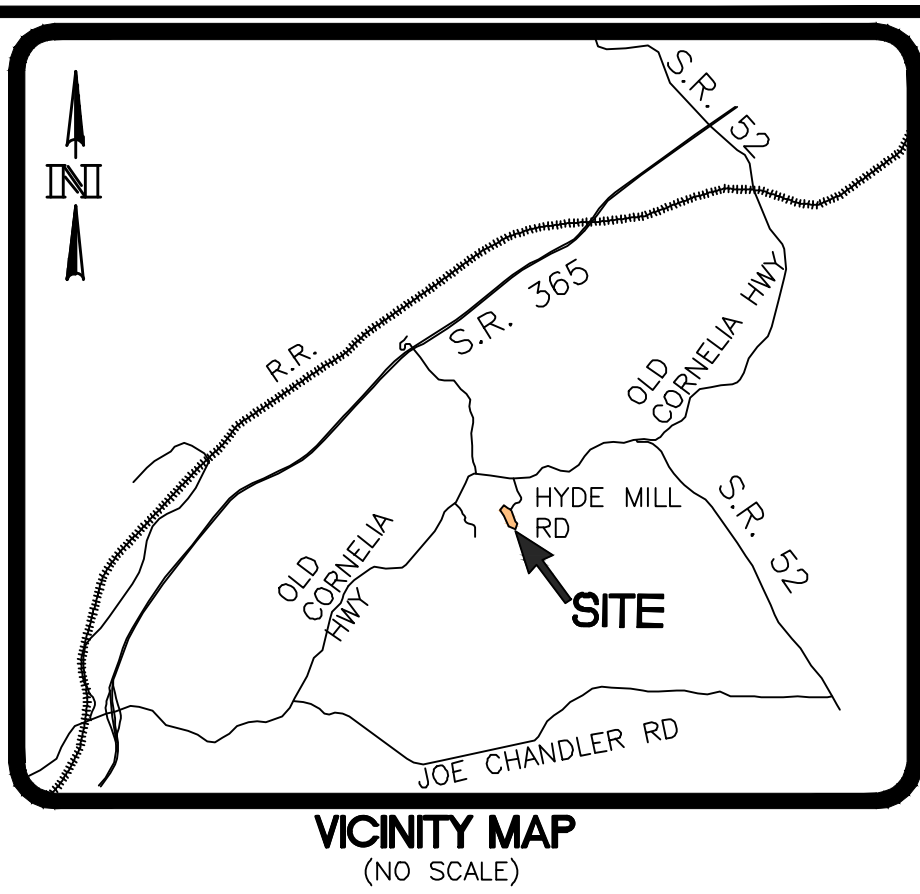
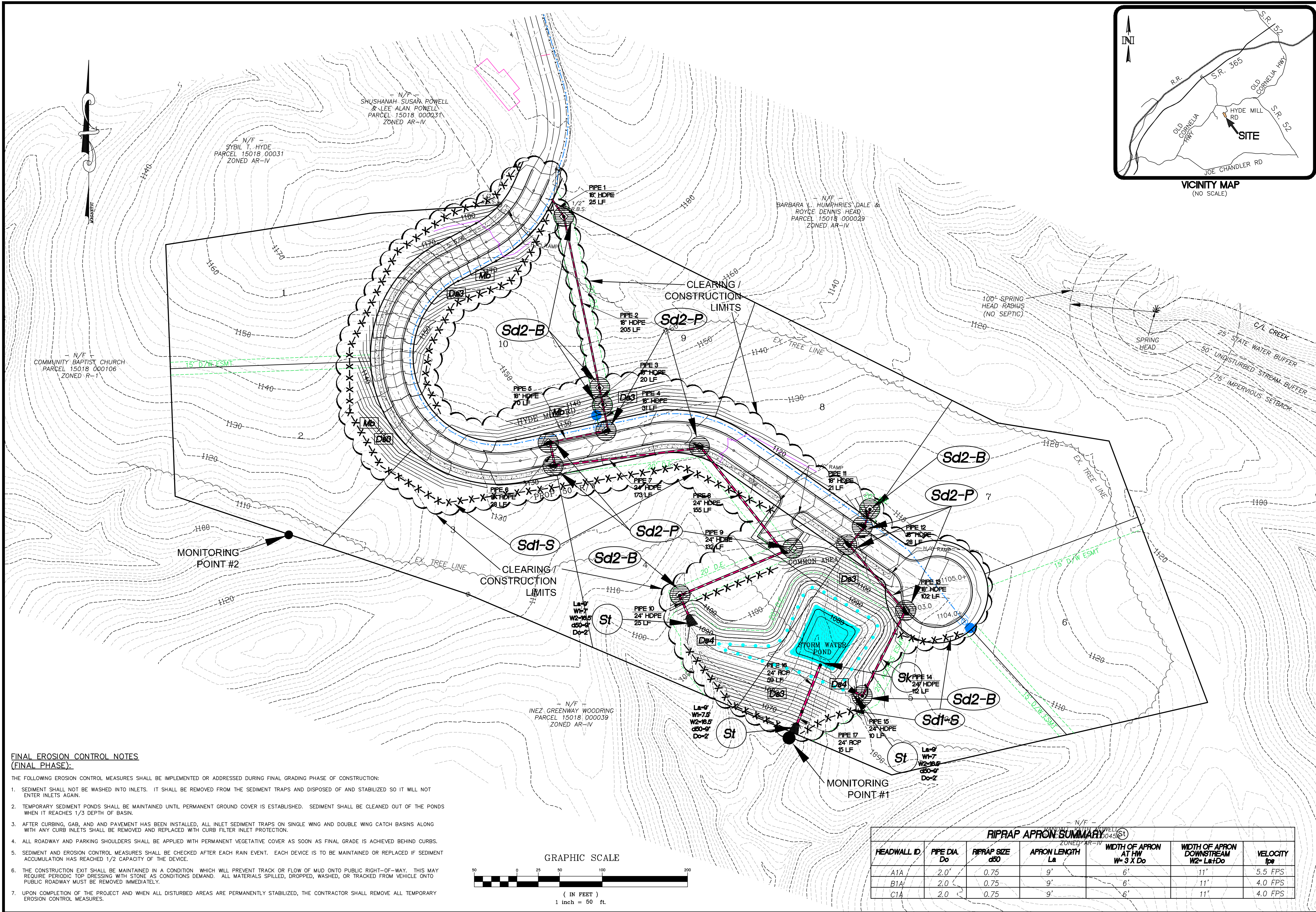
Sheet Title
INITIAL
EROSION
CONTROL

Revisions

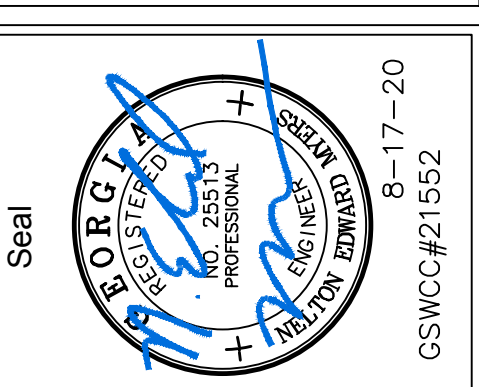
① 8/17/20 -Addressed
County comments.

SHEET

EC-1



Copyright
MYERS & CO.
2020
ALL RIGHTS RESERVED
This drawing is the sole property of Myers & Co. and shall not be reproduced, stored in any retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, or in any way without the written permission of Myers & Co.



MYERS & CO.
civil engineers

P.O. BOX 634
770-297-9793
ed@myers-and-co.com
GAINESVILLE, GA 30603

Project Description
HYDE MILL FARMS

DATE 5-12-20
JOB NO. 19-21
Sheet Title
FINAL EROSION CONTROL

Revisions
① 8/17/20 - Addressed County comments.
SHEET
EC-3

NPDES PERMIT NOTES:

THESE PLANS HAVE BEEN PREPARED TO MEET THE REQUIREMENTS UNDER THE STATE OF GEORGIA, DEPT. OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT NO. GAR 100003 FOR AUTHORIZATION TO DISCHARGE UNDER THE NPDES. STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FOR THIS PROJECT.

PORT A JOHNS SHALL BE USED DURING CONSTRUCTION FOR FIELD PERSONAL TO HANDLE SEWER DISPOSAL. AFTER CONSTRUCTION, THE DEVELOPMENT WILL BE SERVED BY SANITARY SEWER PROVIDED BY **ONSITE SANITARY SEWER SYSTEM**.

WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE WHICH HAS A SIGNIFICANT EFFECT ON BMP'S WITH A HYDRAULIC COMPONENT, OR IF THE PLAN IS INEFFECTIVE IN CONTROLLING POLLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITY, AMENDMENTS SHALL BE MADE TO THE PLAN AND CERTIFIED BY THE DESIGN PROFESSIONAL.

THIS ESAPC PLAN INCLUDES BMP'S THAT ARE CONSISTENT WITH, AND NO LESS STRINGENT THAN THE MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA INCLUDING INITIAL PERIMETER CONTROL, INTERMEDIATE GRADING AND DRAINAGE BMP'S, AND FINAL BMP'S.

THE PRE-DEVELOPED RUNOFF COEFFICIENT OF THE SITE IS **0.25**, THE POST-DEVELOPED RUNOFF COEFFICIENT OF THE SITE IS **0.35**.

THERE ARE **2** SAMPLING LOCATIONS (MONITORING POINTS) INCLUDED IN THIS PLAN.

THE LOCATIONS ARE SHOWN ON THE THREE-PHASE EROSION CONTROL PLANS.

APPENDIX B-NTU VALUE: THE SITE AREA IS 10-25 ACRES AND THE SURFACE WATER DRAINAGE AREA IS WARM WATER LESS THAN 5 SQUARE MILES. THEREFORE, THE NTU IS 50.

POLLUTION CONTROL NOTES:

ALL SOLID WASTE IS TO BE PLACED IN DUMPSTERS AND HAULED OFF-SITE.

NO WASTE SHALL BE DISCHARGED INTO STATE WATERS, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

A CONSTRUCTION EXIT IS PROVIDED TO MINIMIZE THE AMOUNT OF OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND DUST GENERATION. THE CONSTRUCTION ENTRANCE/EXIT ALSO ACTS AS A FUELING AREA WHICH WILL PROVIDE REMEDIATION OF PETROLEUM SPILLS AND LEAKS.

MATERIAL MANAGEMENT PRACTICES:

1. STORE ONLY ENOUGH PRODUCTS REQUIRED TO DO THE JOB.
2. MATERIALS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL, UNLESS THEY ARE NOT RE-SEALABLE.
3. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED.
4. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
5. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL.
6. THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.

PETROLEUM PRODUCTS:

1. VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE.
2. STORE PETROLEUM IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED.
3. ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURE RECOMMENDATIONS.

FERTILIZERS:

1. APPLY FERTILIZERS IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER.
2. WORK INTO SOIL TO LIMIT EXPOSURE TO STORM WATER.
3. STORE IN A COVERED SHED.
4. TRANSFER PARTIALLY USED BAGS TO A SEALABLE PLASTIC BIN.

PAINTS:

1. TIGHTLY SEAL AND STORE ALL CONTAINERS WHEN NOT IN USE.
2. PROPERLY DISPOSE OF EXCESS PAINT ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

CONCRETE TRUCKS:

1. ESTABLISH A SINGLE WASH-OUT BASIN FOR CONCRETE TRUCKS.
2. SIZE AND LOCATION TO BE APPROVED BY REPRESENTATIVES OF THE APPROPRIATE JURISDICTION.
3. NO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER IS ALLOWED AT THIS LOCATION.
4. FOR FINAL CLEAN-UP, CONTRACTOR WILL REMOVE ALL CONCRETE SPOILS AND WASTE IN THE BASIN TO AN OFF-SITE LOCATION.
5. THE BASIN AREA WILL BE FILLED WITH DIRT, COMPACTED, GRADED, GRASSED AND RESTORED TO ORIGINAL CONDITION OR BETTER.

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. TYPES, 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 RESPONSE CENTER (NRC) WILL BE CONTACTED WITHIN 24 HOURS AT 1-800-426-2675.
- FOR SPILLS GREATER THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE GEORGIA E.P.D. WILL BE CONTACTED WITHIN 24 HOURS.
- FOR SPILLS LESS THAN 25 GALLONS AND NO SURFACE WATER IMPACTS OCCUR, THE SPILL WILL BE CLEANED UP AND LOCAL AGENCIES WILL BE CONTACTED AS REQUIRED.

THE CONTRACTOR SHALL NOTIFY THE LICENSED PROFESSIONAL WHO PREPARED THIS PLAN IF MORE THAN 1320 GALLONS OF PETROLEUM IS STORED ONSITE (THIS INCLUDES CAPACITIES OF EQUIPMENT) OR IF ANY ONE PIECE OF EQUIPMENT HAS A CAPACITY GREATER THAN 660 GALLONS. THE CONTRACTOR WILL NEED A SPILL PREVENTION CONTAINMENT AND COUNTERMEASURES PLAN PREPARED BY THAT LICENSED PROFESSIONAL.

GENERAL EROSION CONTROL NOTES:

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

'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.'

CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES DAILY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.

FAILURE TO PROPERLY INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB UNTIL SUCH MEASURES ARE CORRECTED.

STREAM BUFFER NOTE:

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

CRITICAL WORK ZONE AREAS:

CRITICAL AREAS SHOWN ON PLANS SHALL BE MAINTAINED AS FOLLOWS:

THE STORM WATER INLETS SHALL BE PROTECTED TO PREVENT SEDIMENT FROM ENTERING THE DRAINAGE SYSTEM AND WASHING INTO THE DOWNSTEAM STREAM.

CARE SHALL BE TAKEN TO STABILIZE THE ROAD SLOPES AT THE ENTRANCE WHICH IS ON A STEEP SLOPE.

STORMWATER MANAGEMENT CONSIDERATIONS:

STORM WATER RUNOFF FROM THE PROJECT WILL FLOW INTO THE PROPOSED STORM WATER POND. THIS POND WILL BE A WET EXTENDED DETENTION POND THAT PROVIDES WATER QUALITY AND CHANNEL PROTECTION VOLUMES.

THE POND WILL ENSURE THAT THE DOWNSTREAM PROPERTY OWNERS ARE NOT ADVERSELY AFFECTED BY THE STORM WATER RUNOFF FROM THE DEVELOPMENT.

BUILDING MATERIALS & PRODUCTS

ALL BUILDING MATERIALS, PRODUCTS & FERTILIZERS SHALL BE COVERED BY PLASTIC SHEETING TO MINIMIZE EXPOSURE TO PRECIPITATION AND STORM WATER.

INSPECTIONS

PRIMARY PERMITTEE

(1). Each day when any type of construction activity has taken place at a primary permittee's site, certified personnel provided by the primary permittee shall inspect: (a) all areas at the primary permittee'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 permittee'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 except 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 a seeding of target perennials appropriate for the region.

(3). Certified personnel (provided by the primary permittee) 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 5:00 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 the primary permittee's construction site ; (b) areas used by the primary permittee 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 permittee'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 of target perennials appropriate for the region, the permittee must comply with Part IV.D.4.a.(4).. These inspections must be conducted until a Notice of Termination is submitted.

(4). Certified personnel (provided by the primary permittee) shall inspect at least once per month during the term of this permit (i.e., until a Notice of Termination is submitted to 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 the 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 IV.D.4.a.(5).. of the permit shall be made and retained at the site or be readily available at a designated alternate location until the entire site or that 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 an incident, the inspection report shall contain a statement 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.

Reporting

1. The applicable permittees are required to submit the sampling results to the EPD at the address shown in Part 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 permittee to submit the sampling results on a more frequent Sampling and analysis of any storm water discharge(s) or the receiving water(s) beyond the minimum frequency stated in this 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(s) analyses were initiated;
- e. The name(s) of the certified personnel who performed the analyses;
- f. References and written procedures, when available, for the 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 1000 NTU 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 this 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. The applicable permittees 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 of Records

1. The primary permittee 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 this permit;
- c. The design professional's report of the results of the inspection conducted in accordance with Part IV.A.5. of this 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 IV.D.4.a. of this permit;
- f. A copy of all violation summaries and violation summary reports generated in accordance with Part III.D.2. of this permit; and
- g. Daily rainfall information collected in accordance with Part IV.D.4.a.(2). of this permit.

2. Copies of all Notices of Intent, Notices of Termination, reports, plans, monitoring reports, monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, 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 permittee 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. These records must be maintained at the permittee's primary place of business or at a designated alternative 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 permittee.

DISPOSAL OF DEBRIS

ALL SOLID WASTE IS TO BE PLACED IN DUMPSTERS AND HAULED OFF-SITE. THIS WASTE SHALL NOT BE DISCHARGED INTO STATE WATERS, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

TOP SOIL WILL BE SALVAGED, STOCKPILED AND SPREAD ON AREAS TO BE VEGETATED. TEMPORARY AND PERMANENT VEGETATION WILL BE ESTABLISHED AS EACH PHASE OF CONSTRUCTION IS COMPLETED. DEBRIS WILL NOT BE BURIED ON SITE. IT WILL BE HAULED OFF-SITE TO A STATE APPROVED LANDFILL.

DISTURBED AREA STABILIZATION

DISTURBED AREAS WILL BE STABILIZED ACCORDING TO THE PROCEDURES OUTLINED IN THE STATE OF GEORGIA MANUAL FOR EROSION AND SEDIMENT CONTROL. INITIAL DISTURBANCE WILL BE STABILIZED WITH MULCHING AND TEMPORARY GRASSING. AFTER FINAL GRADING HAS BEEN COMPLETED, PERMANENT GRASSING WILL BE USED FOR STABILIZATION.

Sampling Requirements.

This permit requires the monitoring of nephelometric turbidity in receiving water(s) or outfalls in accordance with this permit. This section is applicable to primary permittees with a total planned disturbance equal to or greater than one (1) acre and tertiary permittees with a total planned disturbance equal to or greater than five (5) acres. The following procedures constitute EPD's guidelines for sampling turbidity.

a. *Sampling Requirements shall include the following:*

(1). A USGS topographic map, a topographic map or a drawing (referred to as a topographic that is a scale equal to or more detailed than a 1:24000 map showing the location of the site or the common development; (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 permittee 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). The analytical method used to collect and analyze the samples including quality control/quality assurance procedures. This narrative must include precise sampling methodology for each sampling location;

(3). When the permittee 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 permittee of the information necessary and the time line for submittal.

b. *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, clean 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 rising 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 permittee must utilize manual sampling or rising stage sampling during the next qualifying event. Dilution of samples is not required. Samples may be analyzed using a direct reading, 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.

c. *Sampling Points*

(1). For construction activities the primary permittee with a total planned disturbance equal to or greater than one (1) acre and tertiary permittee with a total planned disturbance equal to or greater than five (5) acres 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 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 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 samples used for the downstream turbidity value.

(c). Ideally the samples should be taken from the horizontal 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 from floating debris.

(g). Permittees 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 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.

d. *Sampling Frequency*

(1). The primary permittee with a total planned disturbance equal to or greater than one (1) acre and tertiary permittee with a total planned disturbance equal to or greater than five (5) acres must sample in accordance with the Plan at least once for each rainfall event described below. For a qualifying event, the permittee shall sample at the beginning of any storm water discharge to a monitored receiving water and/or from a monitored outfall 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 permittee's control, the permittee 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 permittee 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 allows for sampling during normal business hours as defined in this permit after all clearing and grubbing operations have been completed, but prior to 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 BMPs 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 that BMPs 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 primary permittee, in accordance with Part IV.D.4.a.(6).., or the tertiary permittee, in accordance with Part IV.D.4.c.(6).., must include a written justification in the inspection report of why sampling was not performed. Providing this justification does not relieve the permittee of any subsequent sampling obligations under (a), (b) or (c) above; and

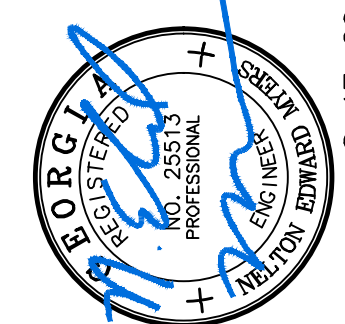
(e). Existing construction activities, i.e., those that are occurring on or before the effective date of this permit, that have met the sampling required by (a) above shall sample in accordance with (b). Those existing construction activities that have met the sampling required by (b) above shall not be required to conduct additional sampling other than as required by (c) above.

*Note that the Permittee 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 the day or week.

Copyright

2020 MYERS & CO., INC. ALL RIGHTS RESERVED. This document is the sole property of Myers & Co., Inc. It contains confidential information specific to the project and location identified herein. It is to be used only for the purpose of the project, and not to be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, or in any way without the prior permission of Myers & Co.

Seal



8-17-20
GSWCC#21552

PROJECT DESCRIPTION

MYERS & CO. civil engineers

770-297-9793
608myer@myers-and-co.com

P.O. BOX 634
GAINESVILLE, GA 30603

PROJECT DESCRIPTION

HYDE MILL FARMS

GLADES G.M.D. 403
HALL COUNTY, GEORGIA

DATE

5-12-20

JOB NO.

19-21

Sheet Title

EROSION CONTROL NOTES

Revisions

① 8/17/20 -Addressed County comments.

SHEET

EC-4

PROJECT NARRATIVE

PRIMARY PERMITTEE: AVA HOLDINGS, LLC.
117 TIMBERLOST TRAIL
SUWANEE, GA 30024
CONTACT: NICK THOMPSON
24 HOUR PHONE NUMBER: 404-931-3434
Email Address: nickthompson4119@gmail.com

PROJECT DESCRIPTION: THE PROJECT CONSISTS OF A PROPOSED 10 LOT SINGLE FAMILY RESIDENTIAL SUBDIVISION. THE TOTAL AREA OF THE PROJECT IS 11.3 ACRES. THE DISTURBED AREA IS 4.0 ACRES. EARTHWORK VOLUMES ARE 6,000 CY OF CUT / FILL THAT WILL BALANCE ON THE SITE.

GPS COORDINATES OF SITE EXIT: 34.344384°
-83.72237°

PROJECT RECEIVING WATER: CEDAR CREEK

MOST OF THE DEVELOPED IMPERVIOUS AREA OF THE SITE WILL DRAIN INTO THE STORM WATER POND. THE POND WILL ALSO PROVIDE WATER QUALITY FOR THE SITE. MONITORING POINT 1 HAS BEEN LOCATED DIRECTLY DOWNSTREAM OF THE POND IN THE DITCH AS IT LEAVES THE SITE. IT WILL BE PROTECTED BY THE STORM WATER POND. A FLOTATION SKIMMER WILL DRAW THE WATER DOWN DURING THE CONSTRUCTION PHASE. MONITORING POINT 2 IS IN A SWALE THAT LEAVES THE NORTHWESTERN SIDE OF THE SITE. NO DEVELOPMENT WILL OCCUR IN THIS AREA UNTIL THE HOUSE IS BUILT ON LOTS 2 & 3. SILT FENCE WILL PROTECT THIS AREA DURING THIS LIMITED CONSTRUCTION.

SITE NOTES:
SITE IS LOCATED WITHIN 200 FEET OF STATE WATERS.
SITE DOES NOT HAVE STATE WATERS REQUIRING UNDISTURBED BUFFER.
SITE DOES NOT CONTAIN WETLANDS.
THE SITE DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT WITHIN A MILE OF DOWNSTREAM OF THE PROJECT.
NO ALTERNATIVE BMPs ARE USED IN THE DESIGN FOR THIS PROJECT.
THE SITE DOES NOT DISTURB MORE THAN 50 ACRES.
NO BUFFER ENCROACHMENTS ARE REQUIRED.

THE PRIMARY PERMITTEE MUST PROVIDE A COPY OF THE APPROVED ES&PC PLAN OR APPLICABLE PORTIONS OF THE PLAN TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY PERMITTEE CONDUCTING ANY CONSTRUCTION ACTIVITY. THE SECONDARY PERMITTEE SHALL SIGN THE PLAN AS ACKNOWLEDGMENT OF THEIR ROLE IN IMPLEMENTING THE PLAN.

THE FOLLOWING IS A LIST OF THE SECONDARY PERMITTEES THAT HAVE RECEIVED A COPY OF THIS ES&PC PLAN. BY SIGNING THIS PLAN, THE SECONDARY PERMITTEE ACKNOWLEDGES THEIR ROLE IN IMPLEMENTING THIS PLAN.

SECONDARY PERMITTEE SIGNATURE ADDRESS DATE

SECONDARY PERMITTEE SIGNATURE ADDRESS DATE

CONSTRUCTION SCHEDULE : AT THIS POINT, CONSTRUCTION IS TO BEGIN WITHIN (2) WEEKS OF PERMIT TIME. (ESTIMATED TO BE JUNE, 2020)

	MONTH 1	MONTH 2	MONTH 3	MONTH 4
INSTALLATION OF CONSTRUCTION EXIT, PERMETER SILT FENCE, INLET SEDIMENT TRAPS	■			
INSTALL SEDIMENT STORAGE BMPs	■			
GRADING	■	■	■	
TEMPORARY VEGETATION	■	■	■	■
INSTALLATION OF UTILITIES	■	■	■	
CONSTRUCTION OF BUILDING		■	■	■
CONSTRUCTION OF PARKING AREA			■	■
PERMANENT VEGETATION				■
REMOVE TEMP. EROSION MEASURES				■
MAINTENANCE OF EROSION CONTROL THROUGHOUT ENTIRE PROJECT	■	■	■	■

ALL EROSION CONTROL MEASURES SHALL BE REMOVED AT THE END OF THE PROJECT AFTER SITE IS STABILIZED.

SEDIMENT CALCULATIONS:

TOTAL DISTURBED AREA = 4.0 ACRES
REQUIRED SEDIMENT STORAGE = 4.0 AC X 67 CY/AC = 268 CY

TOTAL SEDIMENT STORAGE PROVIDED = 500 CY
IN POND A.

BASIN 2

0.1 AC DISTURBED
0.1 AC X 67 CY/AC = 6.7 CY REQUIRED

TOTAL STORAGE IN SILT FENCING
500 LF x 0.5 FT x 1 FT = 9 CY

NPDES DESIGN PROFESSIONAL CERTIFICATIONS:

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

DESIGN PROFESSIONAL GWSCC#21552

"I CERTIFY THAT THE PERMITTEE'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 & 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) OR 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. GAR 100001."

DESIGN PROFESSIONAL GWSCC#21552

PRIMARY PERMITTEE CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

PRIMARY PERMITTEE 5-5-20
OR DULY AUTHORIZED REPRESENTATIVE DATE

BMP INSPECTION NOTE:

UPON NOTIFICATION BY THE PRIMARY PERMITTEE, THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN SHALL INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMP'S WITHIN SEVEN (7) DAYS AFTER INSTALLATION.

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
COMMON DEVELOPMENT CONSTRUCTION PROJECTS (Primary and Tertiary Permittees)

Project Name: HYDE MILL FARMS Address: Hyde Mill Road
City/Country: Hall Date on Plans: 5-12-20
Name & email of person filling out checklist: ed@myers-and-co.com

Plan Included TO BE SHOWN ON ES&PC PLAN

EC-5 Y 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted.
(The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed.)
EC-5 Y 2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC Plan or the Plan will not be reviewed.)
EC-5 Y 3 Limit of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the EPD District Office. If EPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist.
(A copy of the written approval by EPD must be attached to the Plan for the Plan to be reviewed.)
EC-5 Y 4 The name and phone number of the 24-hour local contact responsible for erosion, sedimentation and pollution controls.
EC-5 Y 5 Provide the name, address, email address, and phone number of the primary permittee or tertiary permittee.
EC-5 Y 6 Note total and disturbed acreage of the project or phase under construction.
EC-5 Y 7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
EC-5 Y 8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
EC-5 Y 9 Description of the nature of construction activity.
EC-1-3 Y 10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
EC-5 Y 11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
EC-5 Y 12 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV pg 22 of the permit.
EC-5 Y 13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV pg 22 of the permit.
EC-4 Y 14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation."
EC-4 Y 15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50 foot undisturbed stream buffers as measured from the point of vested 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."
EC-5 Y 16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.

EC-4 Y 17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional.
EC-4 Y 18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."
EC-4 Y 19 Clearly note statement that "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."
EC-4 Y 20 Clearly note statement that "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."
EC-4 Y 21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
EC-5 Y 22 Indication that the applicable portion of the primary permittees ES&PC Plan is to be provided to each secondary permittee prior to the secondary conducting any construction activity and that each secondary shall sign the Plan or portion of the Plan applicable to their site. List the names and addresses of all secondary permittees. *

EC-5 Y 23 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as any portion of an Impaired Stream Segment, must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment. *

EC-5 Y 24 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 23 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan. *

EC-4 Y 25 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.
EC-4 Y 26 Provide BMPs for the remediation of all petroleum spills and leaks.
EC-4 Y 27 Description of practices to provide cover for building materials and building products on site. *

EC-4 Y 28 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.
EC-4 Y 29 Description of the practices that will be used to reduce the pollutants in storm water discharges.
EC-5 Y 30 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
EC-4 Y 31 Provide complete requirements of inspections and record keeping by the primary permittee or tertiary permittee.
EC-4 Y 32 Provide complete requirements of sampling frequency and reporting of sampling results. *

EC-4 Y 33 Provide complete details for retention of records as per Part IV F. of the permit.
EC-4 Y 34 Description of analytical methods to be used to collect and analyze the samples from each location. *

EC-4 Y 35 Appendix B rationale for NTU values at all outfall sampling points where applicable. *

EC-1-3 Y 36 Delineate all sampling locations if applicable, perennial and intermittent streams and other water bodies into which storm water is discharged. *

EC-1-3 Y 37 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase.

MULCHING ONLY Ds1

TEMPORARY PROTECTION OF CRITICAL AREAS WITHOUT SEEDING BY APPLYING PLANT RESIDUES OR OTHER SUITABLE MATERIALS, NOT PRODUCED ON THE SITE, TO THE SOIL SURFACE.

Anchoring Mulch

Straw or hay mulch can be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." Disks may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but to press it into the soil leaving much of it in an erect position. Straw or hay mulch shall be anchored immediately after application.

TEMPORARY GRASSING Ds2

TEMPORARY GRASSING SHALL CONSIST OF SOWING A QUICK GRASS SUCH AS RYE GRASS, BROWN TOP MILLET, OR A GRASS SUITABLE TO THE AREA AND SEASON. LIME AND FERTILIZER WILL BE OMITTED. MULCH IS NOT REQUIRED BUT SHOULD BE USED AS DICTATED BY EXISTING SITE CONDITIONS.

SPECIES	RATE	PLANTING DATE
RYE BROWNTOP MILLET	40-50#/AC. 30-40#/AC.	AUGUST THRU MARCH APRIL THRU JULY

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

PERMANENT GRASSING: Ds3

PERMANENT GRASSING SHALL CONSIST OF GROUND PREPARATION, LIMING AND FERTILIZATION, SEEDING, AND MULCHING.

THE GROUND SHALL BE PREPARED BY PLOWING AND DISKING NOT LESS THAN 4". FERTILIZER AND LIME SHALL BE UNIFORMLY MIXED INTO THE GROUND - FERTILIZER AT A RATE OF 1500#/AC. AND LIME AT 4000#/AC. THE GROUND SHALL BE FINISHED OFF SMOOTH AND UNIFORM BEING FREE OF ROCKS, CLODS, ROOTS, ETC. FERTILIZER MIXED GRADE SHALL BE EITHER 6-12-12 OR 5-10-15. SEEDING SHALL BE DONE WITHIN 24 HOURS OF THE FERTILIZER APPLICATION. WEATHER PERMITTING, SEED SHALL BE UNIFORMLY SPREAD AT THE RATE SHOWN BELOW. MULCHING IS REQUIRED AND SHALL BE DONE IMMEDIATELY AFTER SEEDING. MULCH SHALL BE UNIFORMLY APPLIED OVER THE AREA LEAVING APPROXIMATELY 25% OF THE GROUND SURFACE EXPOSED. THE RATE OF APPLICATION SHALL BE DOUBLED ON SIDE SLOPES 4:1 AND STEEPER. MULCH RATE SHALL BE 5000# /ACRE.

SPECIES	RATE	PLANTING DATE
HULLED COMMON BERMUDA GRASS	10#/AC.	3/1 - 6/15
UNHULLED COMMON BERMUDA GRASS	10#/AC.	AUGUST THRU JANUARY
FESCUE	50#/AC.	9/1 THRU 10/31

SODDING: Ds4

PERMANENT VEGETATIVE COVER SHALL CONSIST OF SODS ON HIGHLY ERODIBLE LAND, SUCH AS DROP INLETS OR GRASS SWALES.

SELECT SOD GROWN IN THE GENERAL AREA OF PROJECT. LAY SOD WITH TIGHT JOINTS AND IN STRAIGHT LINES. ON SLOPES STEEPER THAN 3:1, SOD SHOULD BE ANCHORED WITH PINS. IRRIGATE SOD AND SOIL TO A DEPTH OF 4" IMMEDIATELY AFTER INSTALLATION.

Mulch or temporary grassing shall be applied to all exposed areas within 14 days of disturbance. Temporary grassing, instead of mulch, can be applied to rough graded areas that will be exposed for less than six months. If an area is expected to be undisturbed for longer than six months, permanent perennial vegetation shall be used. If optimum planting conditions for temporary grassing is lacking, mulch can be used as a singular erosion control device for up to six months but it shall be applied at the appropriate depth, anchored, and have a continuous 90% cover or greater of the soil surface.

Ds1 — MULCHING ONLY	
MULCH SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH SHALL HAVE CONTINUOUS 90% COVER OR GREATER OF SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER.	
Mulching Materials	Application Rate (spread uniformly)
Dry Straw or Hay	2-4 inches deep
Wood Waste (chips, sawdust or bark)	2-3 inches deep
Polyethylene Film	apply on exposed areas and secure
IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.	

Seedbed Preparation

When a hydraulic seeder is used, seedbed preparation is not required. When using conventional or hand-seeding, seedbed preparation is not required if the soil material is loose and not sealed by rainfall. When soil has been sealed by rainfall or consists of smooth cut slopes, the soil shall be pitted, trenched or otherwise scarified to provide a place for seed to lodge and germinate.

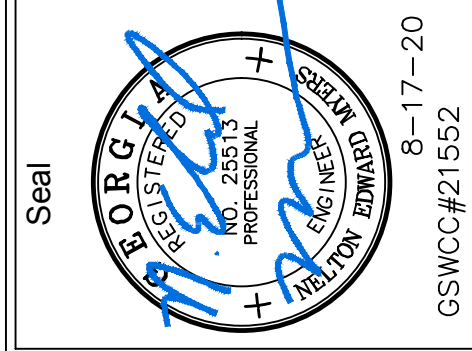
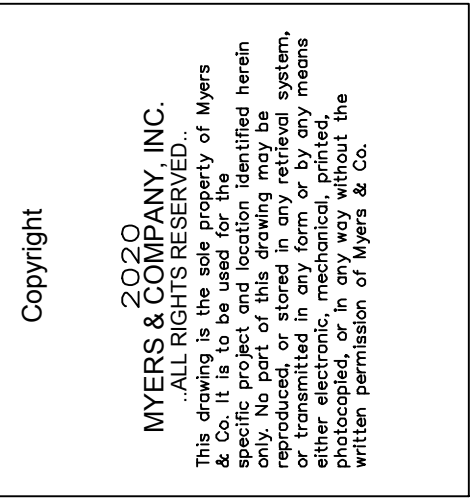
Seeding

Select a grass or grass-legume mixture suitable to the area and season of the year. Seed shall be applied uniformly by hand, cyclone seeder, drill, culti-packer-seeder, or hydraulic seeder (slurry including seed and fertilizer). Drill or culti-packer seeders should normally place seed one-quarter to one-half inch deep. Appropriate depth of planting is ten times the seed diameter. Soil should be "raked" lightly to cover seed with soil if seeded by hand. See Table 6-4.1

FERTILIZER REQUIREMENTS:

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT N-P-K	RATE	N TOP DRESSING RATE
COOL SEASON GRASSES	1ST	6-12-12	1500 LBS/AC	50-100 LBS/AC
	2ND	6-12-12	1000 LBS/AC	50-100 LBS/AC
	MAINTENANCE	10-10-10	400 LBS/AC	30 LBS/AC
WARM SEASON GRASSES	1ST	6-12-12	1500 LBS/AC	50-100 LBS/AC
	2ND	6-12-12	800 LBS/AC	50-100 LBS/AC
	MAINTENANCE	10-10-10	400 LBS/AC	30 LBS/AC

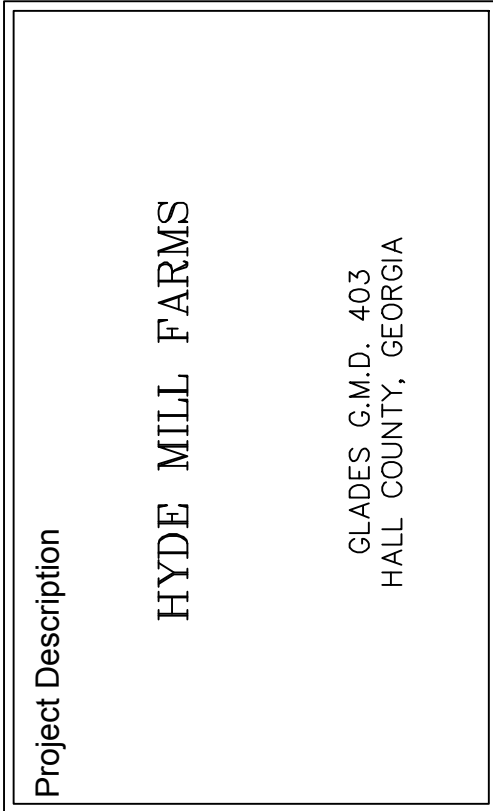
* This requirement of the Common Development permit is not applicable to Tertiary Permittees with a Plan(s) for a typical individual lot(s), if the total land disturbance within the construction site is less than five (5) acres and the total land disturbance within each individual lot is less than one (1) acre. If applicable, the * checklist item would be N/A.
Effective January 1, 2020



MYERS & CO. civil engineers

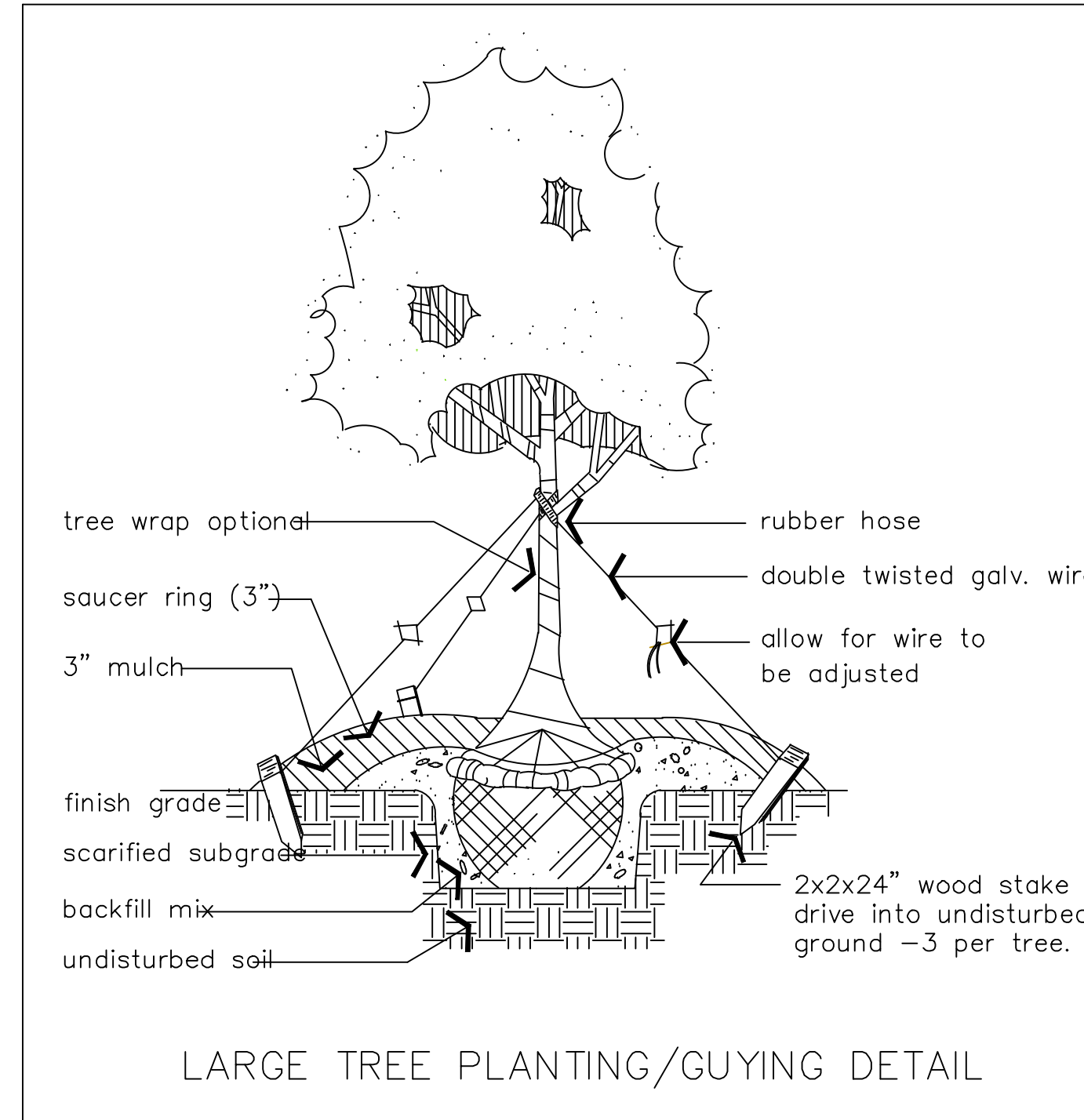
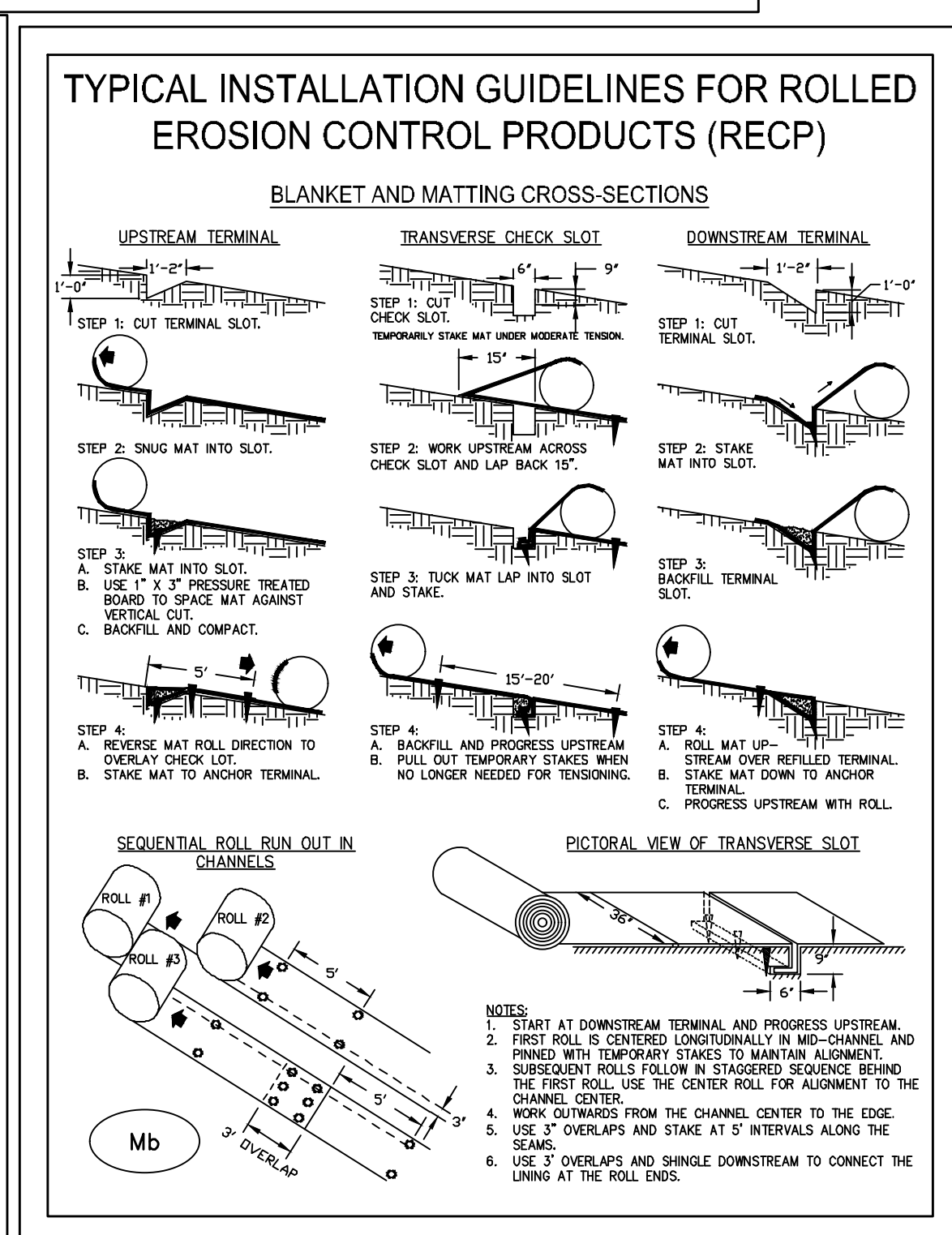
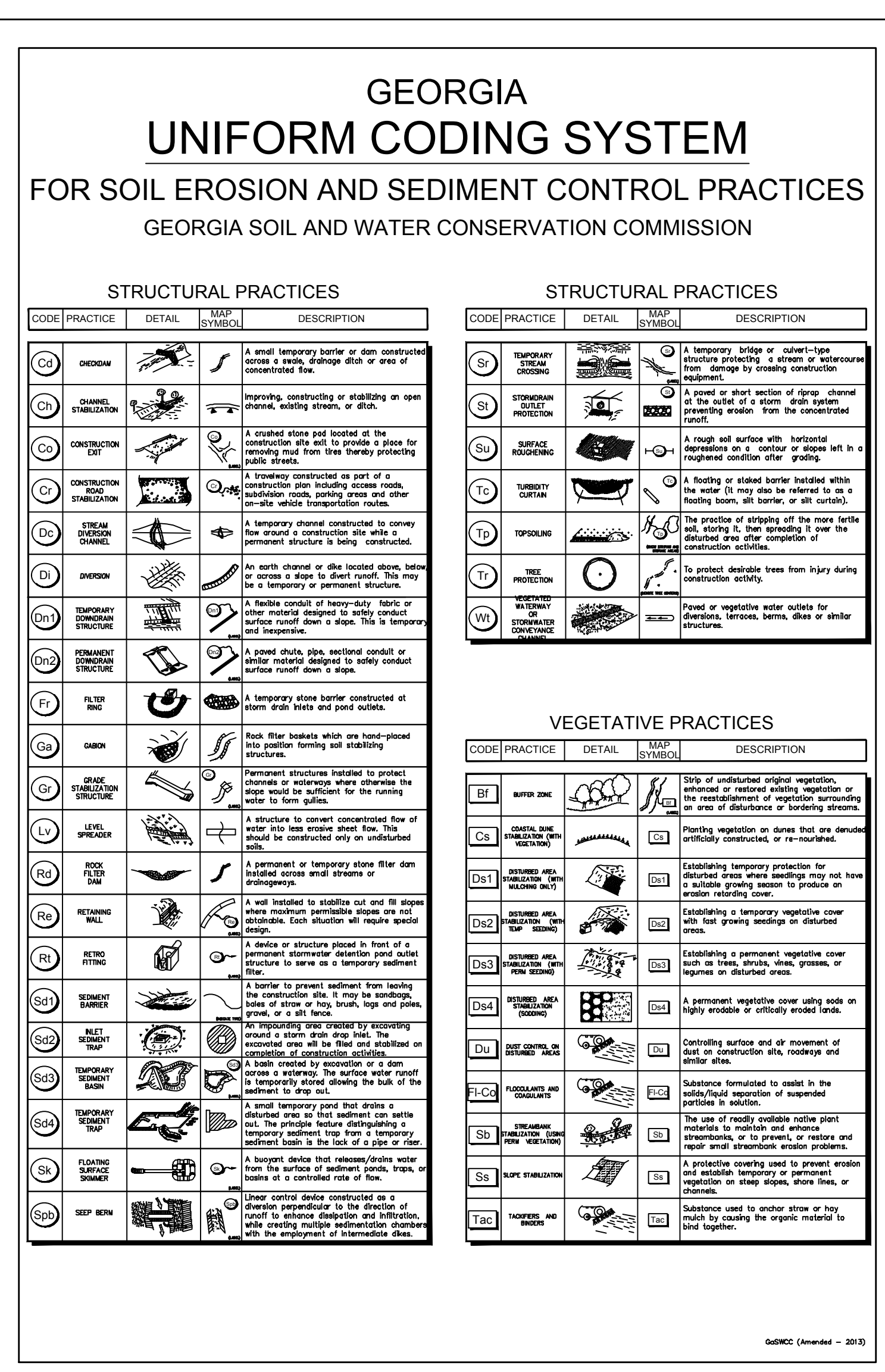
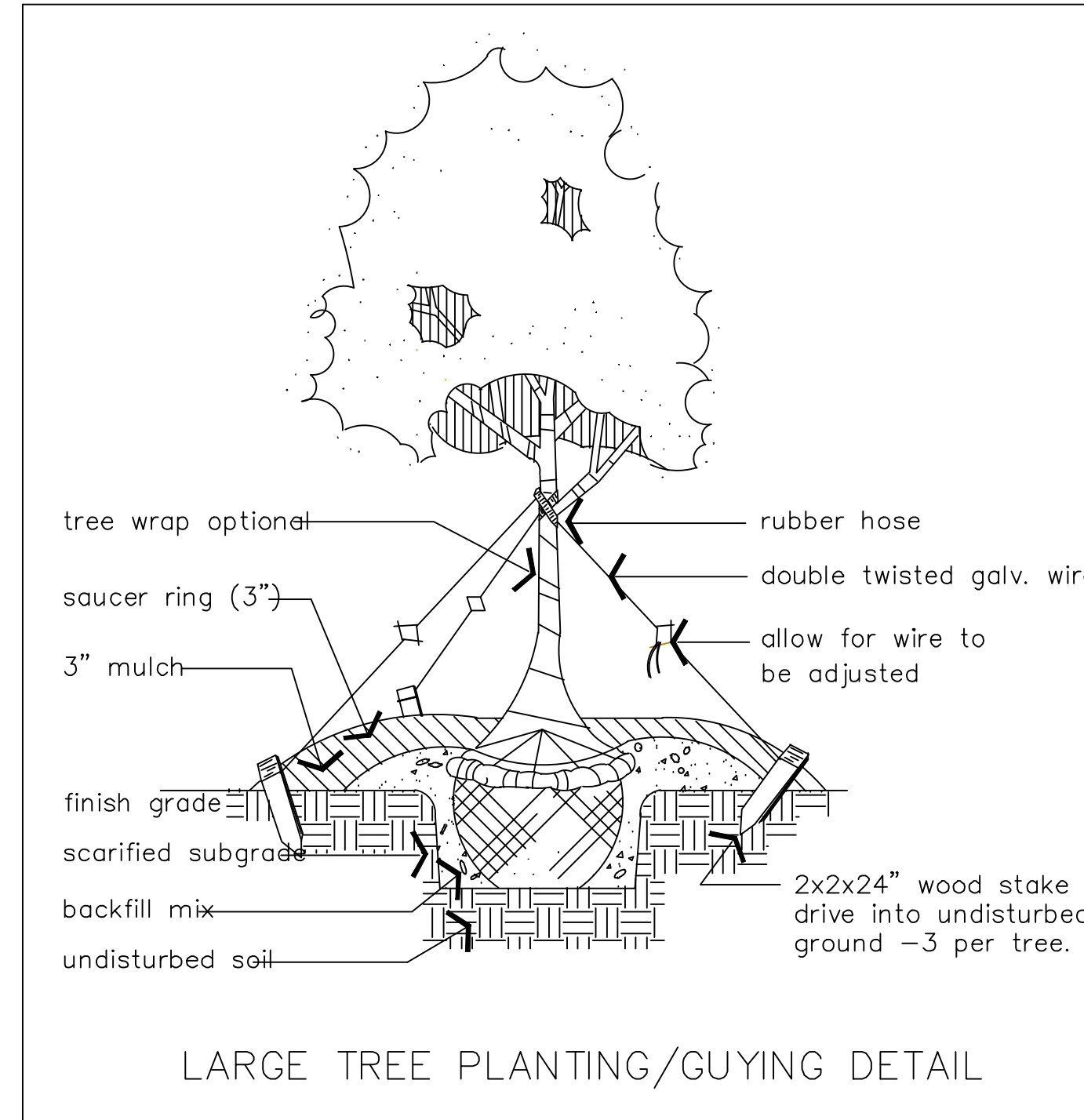
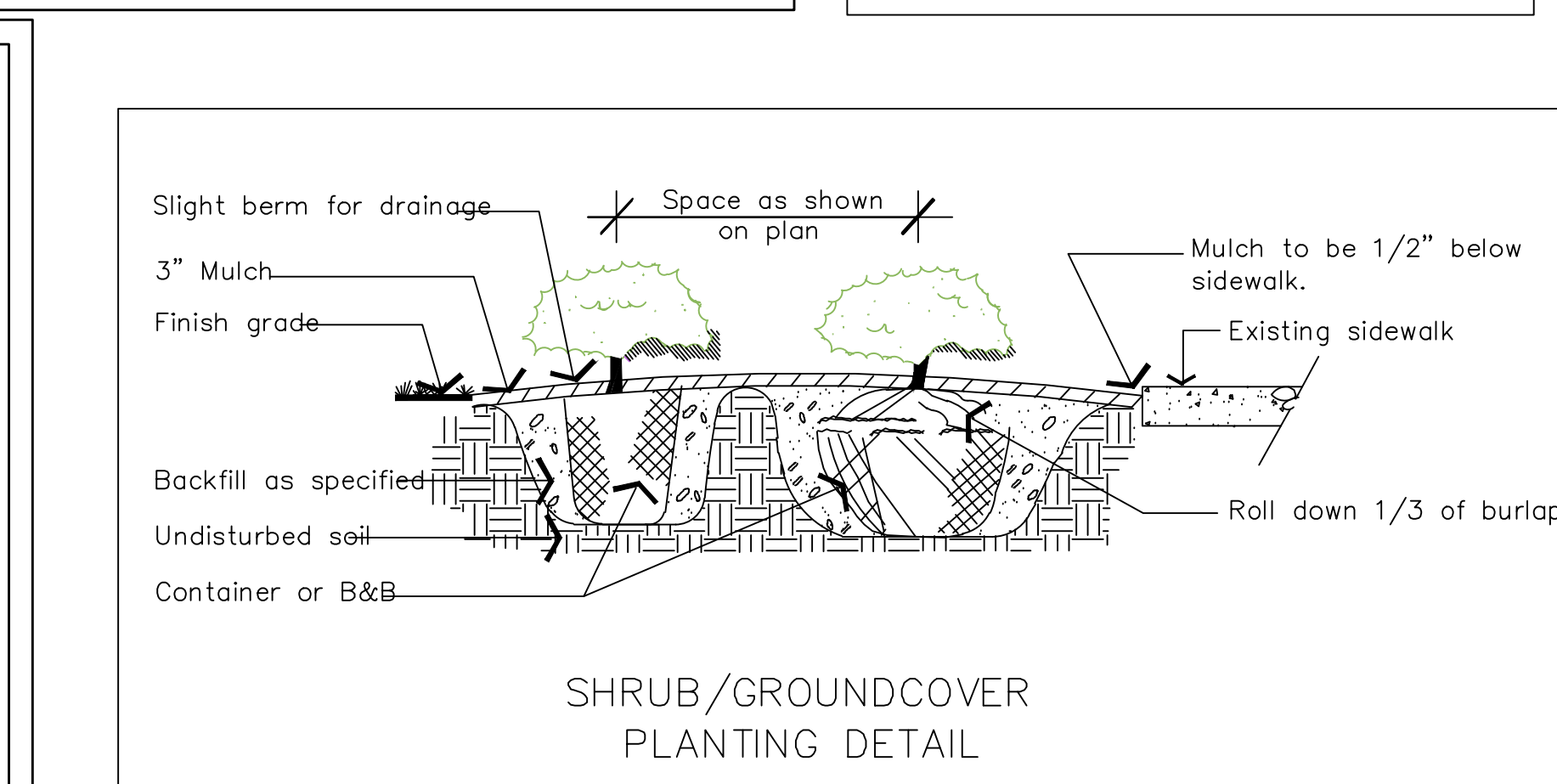
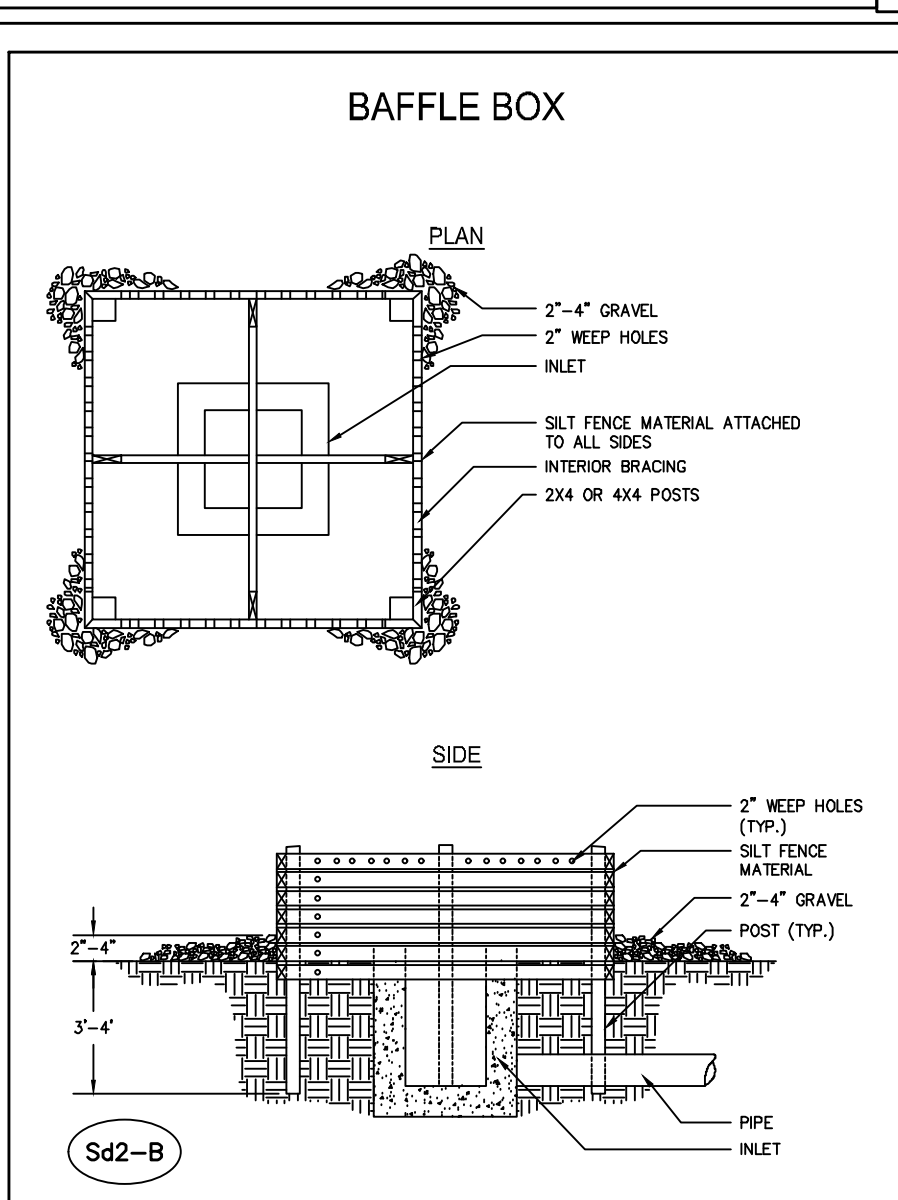
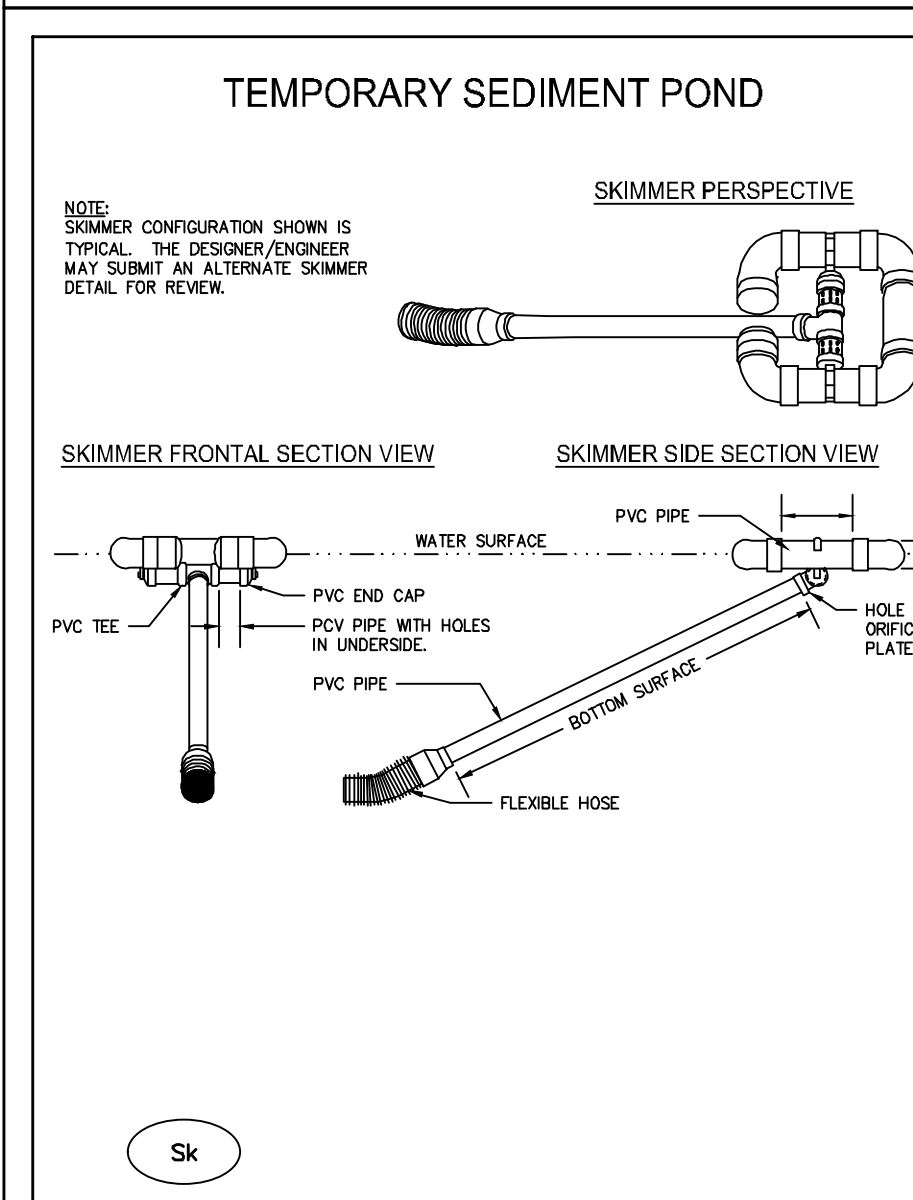
770-297-9793
ed@myers-and-co.com

P.O. BOX 634
GAINESVILLE, GA 30603



DATE	JOB NO.	Sheet Title
5-12-20	19-21	EROSION CONTROL NOTES
Revisions	Comments	
8/17/20 - Addressed County comments.		

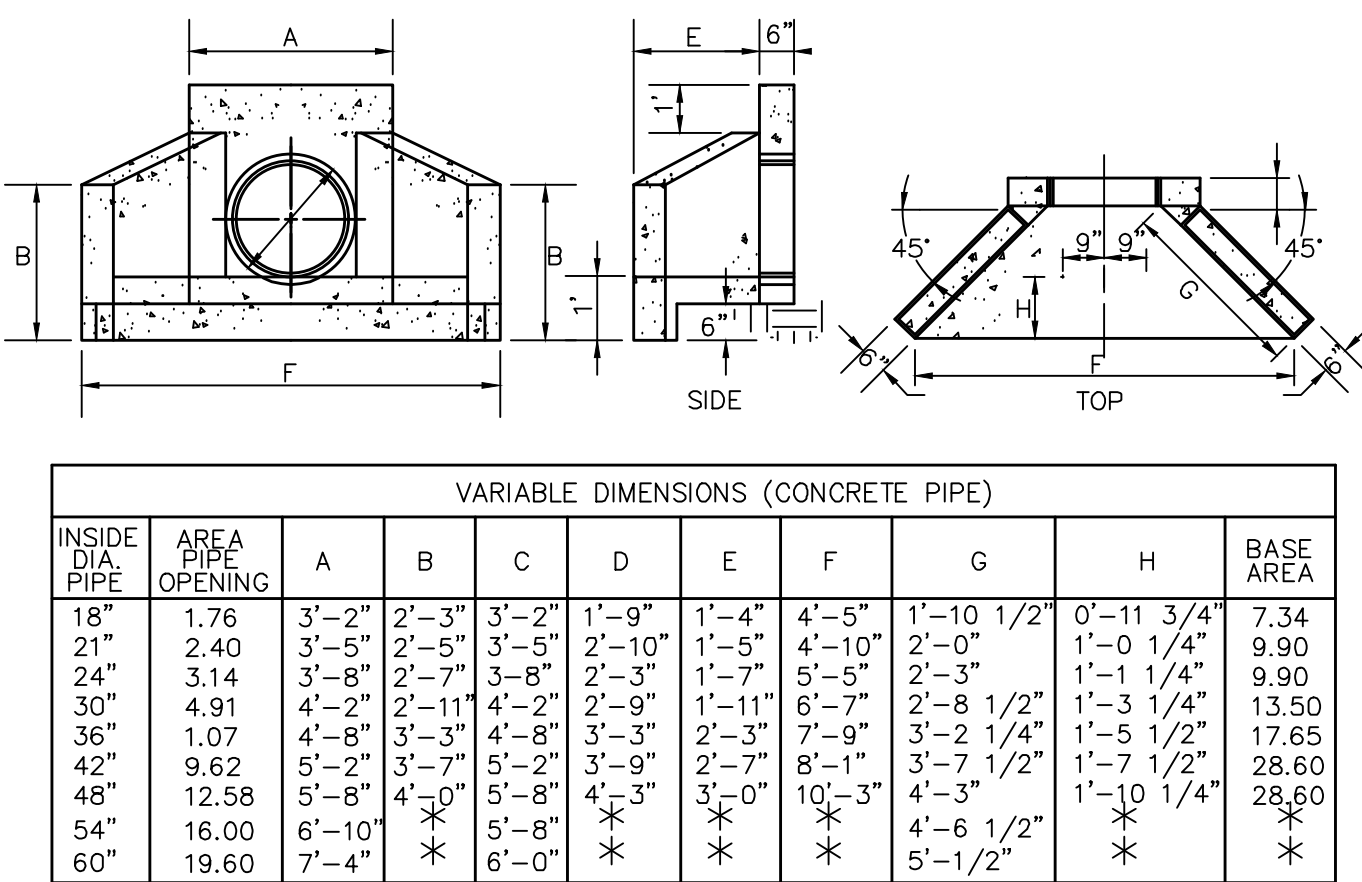
SHEET EC-5



STRUCTURAL PRACTICES			
CODE	PRACTICE	DETAIL	DESCRIPTION
C(1)	CHORD		A steel truss member or diaphragm connects one wall, diaphragm edge or corner of a concentrated flow.
C(2)	CHIMNEY STABILIZATION		Minimally, construction or stabilization in open channels, existing structures, or diaphragms.
C(3)	CONSTRUCTION ELEV		A crushed stone pad located at the construction elevation to provide a base for removing mud from trees through protecting structures.
C(4)	CONSTRUCTION ROAD STABILIZATION		A temporary constructed on part of a culchikan road, parking area and other structures to be used as a temporary road.
C(5)	CRACK DISPERSION DITCH		A temporary channel constructed to convey flow around a construction site to prevent a permanent channel from being damaged.
D(1)	DITCH		An earth channel or ditch located near, within or adjacent to a diaphragm. This may be a temporary or a permanent structure.
D(11)	TEMPORARY DITCH/ANCHOR STABILIZATION		A flexible conduit of heavy-duty fabric or other material designed to actively conduct sediment and debris to a ditch, diaphragm and temporary structure.
D(12)	PERMANENT DITCH/ANCHOR STABILIZATION		It is used to study a pipe, section conduit or active material designed to actively conduct surface runoff down a slope.
F(1)	FLYED RIVER		A temporary usage barrier constructed at storm diaphragm ends and point contacts.
G(1)	GUY		Road River Islands which are land-locked in position limiting soil stabilizing capability.
G(2)	CHIMNEY STABILIZATION STRUCTURE		Permanent structures installed to protect chimneys or structures which otherwise the flow would not surface to a diaphragm to form a culchikan.
L(1)	LEVEL INTERFACE		A permanent or temporary structure of flow of water into an area where flow. This may be constructed only on an undisturbed slope.
R(1)	ROCK FILL DITCH		A permanent or temporary stone flow ditch located around and within structures and drainages.
R(2)	RETAINING WALL		It is used to stabilize soil and fill areas where maximum permeability soils are not available and/or structures are not available for design.
R(3)	RETRO FITTING		A permanent structure installed in front of a permanent structure (diaphragm point) output diaphragm to stabilize the structure and flow.
S(1)	SEMI-REINFORCED		In order to prevent sediment from the construction site it may be necessary, before or after construction, to stabilize the ground, or a salt face.
S(2)	PILE		An interlocking system used by existing around a storm drain into field. The structure is used to stabilize the diaphragm in connection of construction activities.
S(3)	TEMPORARY STABILIZATION		A bank material by sedimentation and erosion occurs a surface. The surface water runoff is actively used to stabilize the bank of the structure. It is used to stabilize.
S(4)	TEMPORARY REINFORCEMENT		A temporary structure that drives a disturbed area so that sediment can settle into the structure. Sedimentation of a temporary sedimentation area is a sign of a permanent structure.
S(5)	PLASTIC PLANT DRAINAGE		A bagged debris that releases debris from the surface of existing diaphragms or banks at a controlled rate of flow.
S(6)	SEED BUNK		Lower control debris construction as a diaphragm permeability is directly in the structure. The structure is used to stabilize the diaphragm with existing material sedimentation chambers.

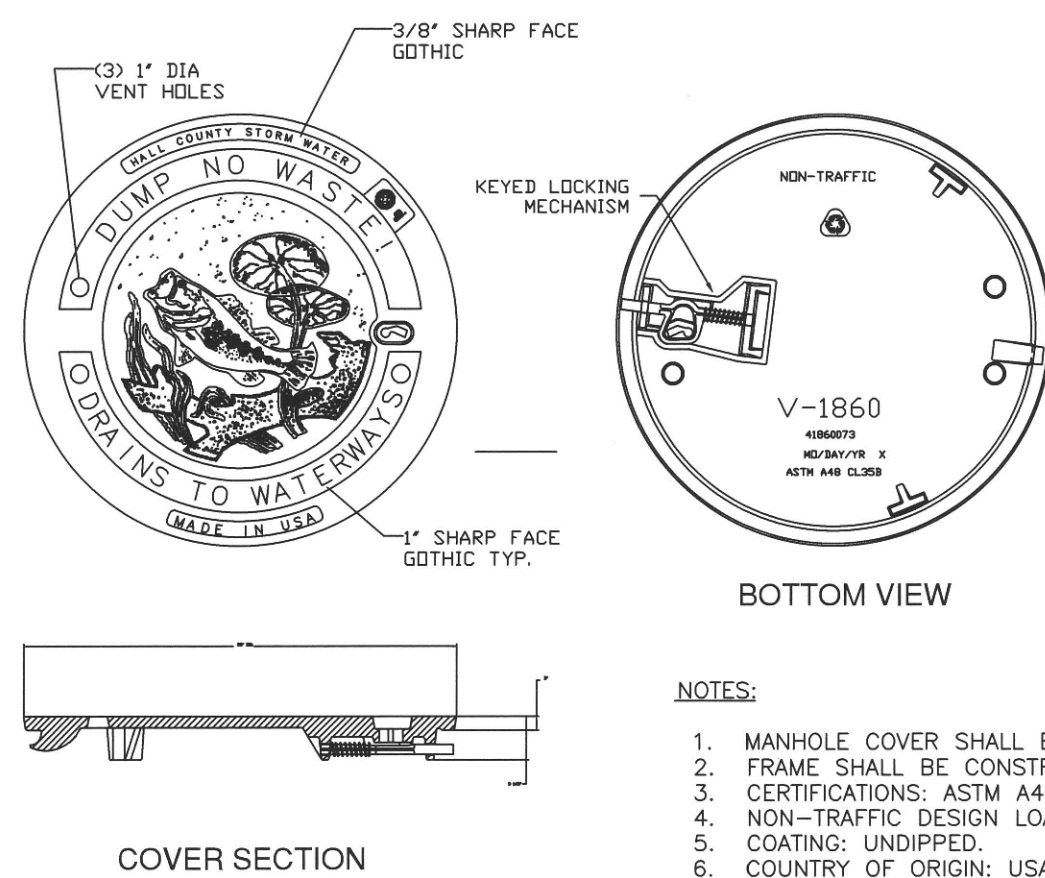
STRUCTURAL PRACTICES				
CODE	PRACTICE	DETAIL	MAN SYMBOL	DESCRIPTION
SI	STANDARD STEEL SHIELD			A temporary bridge or current-type structure protecting a stream or watercourse from erosion by streambed excavation and undercutting.
SI	STROMBERG STONE PROTECTION			Use of a short section of stones placed at the outlet of a storm drain from a ditch to protect the ditch from the concentrated runoff.
SU	SURFACE PROTECTION			A rough cast surface with horizontal grooves or a concrete or slope that is a roughened section after grading.
TC	TEMPERATURE CURTAIN			A floating or stable barrier installed within a ditch (it may also be placed in a ditch) to reduce erosion, soil bank, or silt intrusion.
TP	TEMPERING			The practice of applying all the more fertile topsoil during the topsoiling or over the disturbed area after completion of construction activities.
TP	TREE PROTECTION			To protect valuable trees from injury during construction activities.
WA	WATERWAY-VEGETATION-AND-SEDIMENTATION PROTECTION			Dead or vegetative water or silt for ponds, reservoirs, bays, ditches or other waterways.

VEGETATIVE PRACTICES				
CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFF ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding one of disturbance or erosion control.
Cs	CRUSTAL BONE CONCRETE OR REINFORCED			Planting vegetation in dunes that are eroded artificially constructed, or re-nourished.
Ds1	DISBURSED VEGETATION SEEDING			Establishing temporary protection for disturbed areas until a native seed bank has a suitable growing season to produce an erosion reducing cover.
Ds2	DISBURSED VEGETATION SEEDING WITH MULCH			Establishing a temporary vegetative cover with fast growing species in disturbed areas.
Ds3	DISBURSED VEGETATION SEEDING WITH MULCH AND PROTECTIVE COVER			Establishing a permanent vegetative cover on disturbed areas, grasses, or turfs on disturbed areas.
Ds4	DISBURSED VEGETATION SEEDING WITH MULCH AND PROTECTIVE COVER			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	CONSTRUCTIVE SURFACE AND AIR MOVEMENT OF SOIL			Constructing surface and air movement of soil on construction sites, roadcuts and similar sites.
F-C	FLY-ASH AND COAGULANTS			Substances formulated to stabilize the surface/formation of suspended particles in solution.
Sb	STABILIZATION OF SOILS			The use of readily oxidizable native plant materials and/or extraneous plant materials, or in the presence, or in the absence of soil armor, to stabilize soil erosion.
Ss	SOFT STABILIZATION			A protective covering to prevent erosion, stabilize soil, and stabilize soil erosion in steep slopes, dunes, or stream banks.
Tac	TRAPPING AND BONDING			Substrate used to anchor structure or hay mulch by causing the organic material to be frozen.



NOTES:
 1. SUBGRADE TO BE COMPACTED TO 95% STANDARD PROCTOR. ALL CONCRETE SHALL BE 4000 PSI AND REINFORCING STEEL SHALL BE 1/2" OF INTERMEDIATE GRADE. PLACE REINFORCING WITH 2" MIN. CLEARANCE AND CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".

* CONFORM TO GA. D.O.T. STANDARD 1001-B



NOTES:
 1. MANHOLE COVER SHALL BE CONSTRUCTED OF DUCTILE IRON (80-55-06).
 2. FRAME SHALL BE CONSTRUCTED OF CLASS 35B GRAY IRON.
 3. CERTIFICATIONS: ASTM A48.
 4. NON-TRAFFIC DESIGN LOAD.
 5. COATING: UNPAINTED.
 6. COUNTRY OF ORIGIN: USA.

COVER SECTION

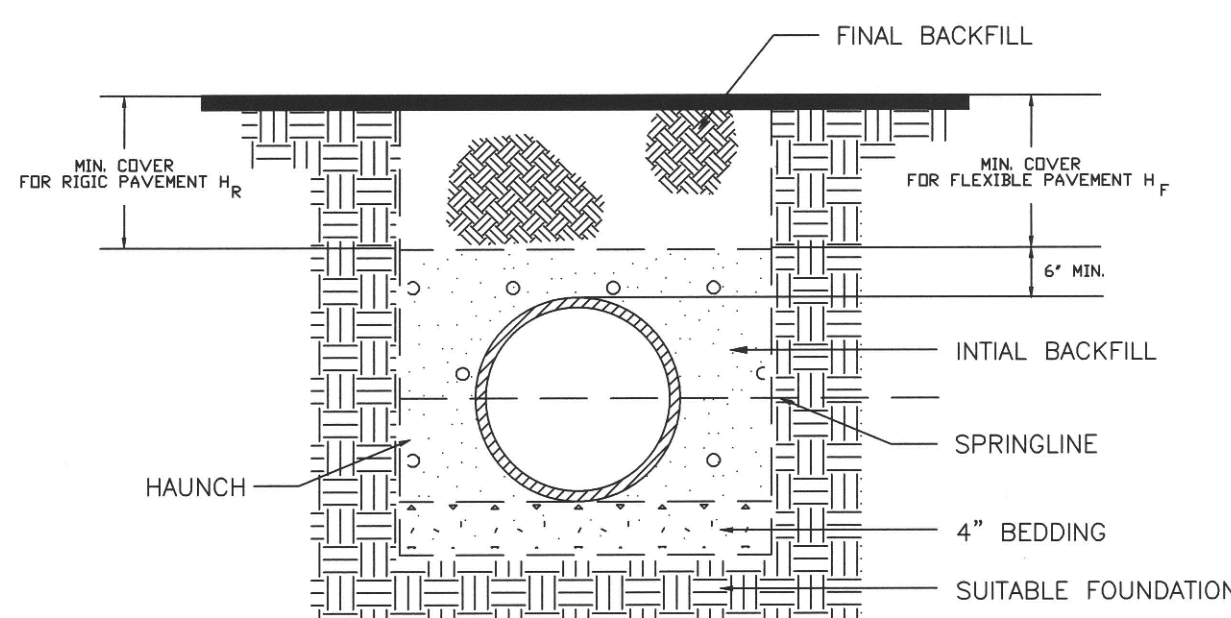
LOCKABLE MANHOLE COVER

REVISED:
JUNE 2019



HALL COUNTY PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

STANDARD
SD-3



FILL AS SPECIFIED BY DESIGN ENGINEER
 H_F, H_R FOR PIPE DIAMETERS UP TO 24"

NOTES:

1. THE MAXIMUM HEIGHT OF FILL SHALL BE 20'.
2. BEFORE INSTALLING PIPE, SHAPE THE FOUNDATION MATERIAL AS SHOWN ON THE PLANS.
3. MINIMUM EXCAVATED TRENCH WIDTH SHALL BE 1.5 x O/S DIA. + 12"
4. SEE GA. DOT STANDARD 1030D FOR ANY DISCREPANCIES OR CHANGE IN SITE CONDITIONS.
5. CLASS III MATERIAL CAN BE USED AS BACKFILL OUTSIDE OF ROW WITH 90% COMPACTION.

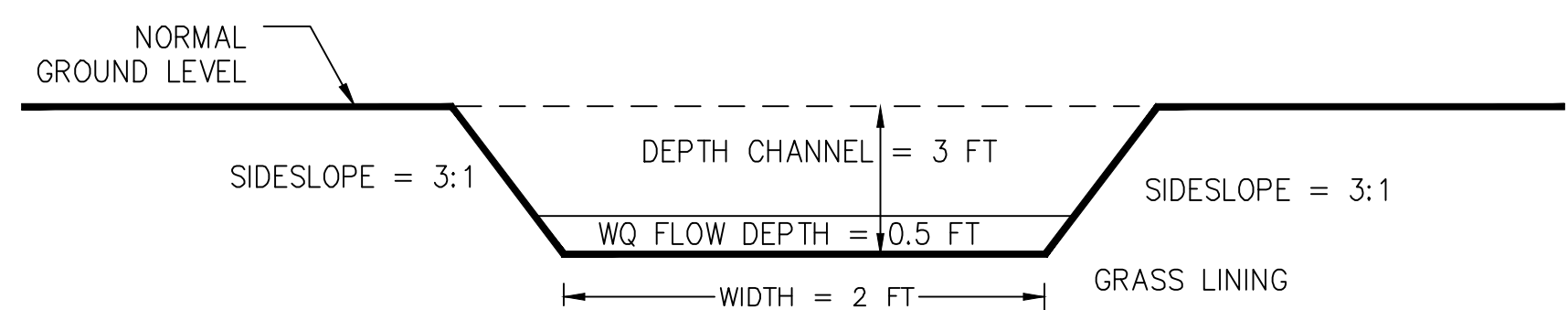
HDPE PIPE BEDDING DETAIL

REVISED:
JAN-2019



HALL COUNTY PUBLIC WORKS & UTILITIES
ENGINEERING DIVISION

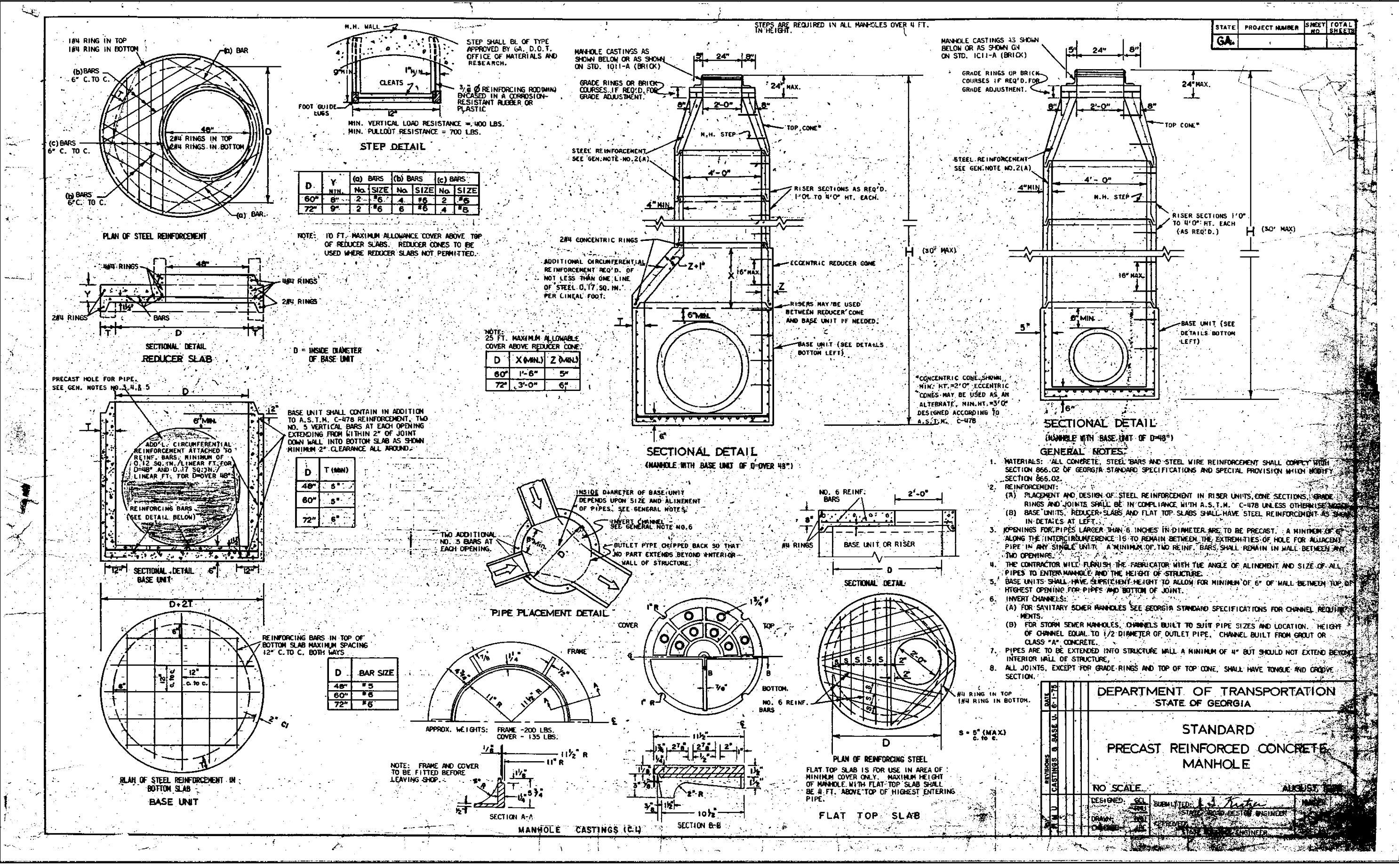
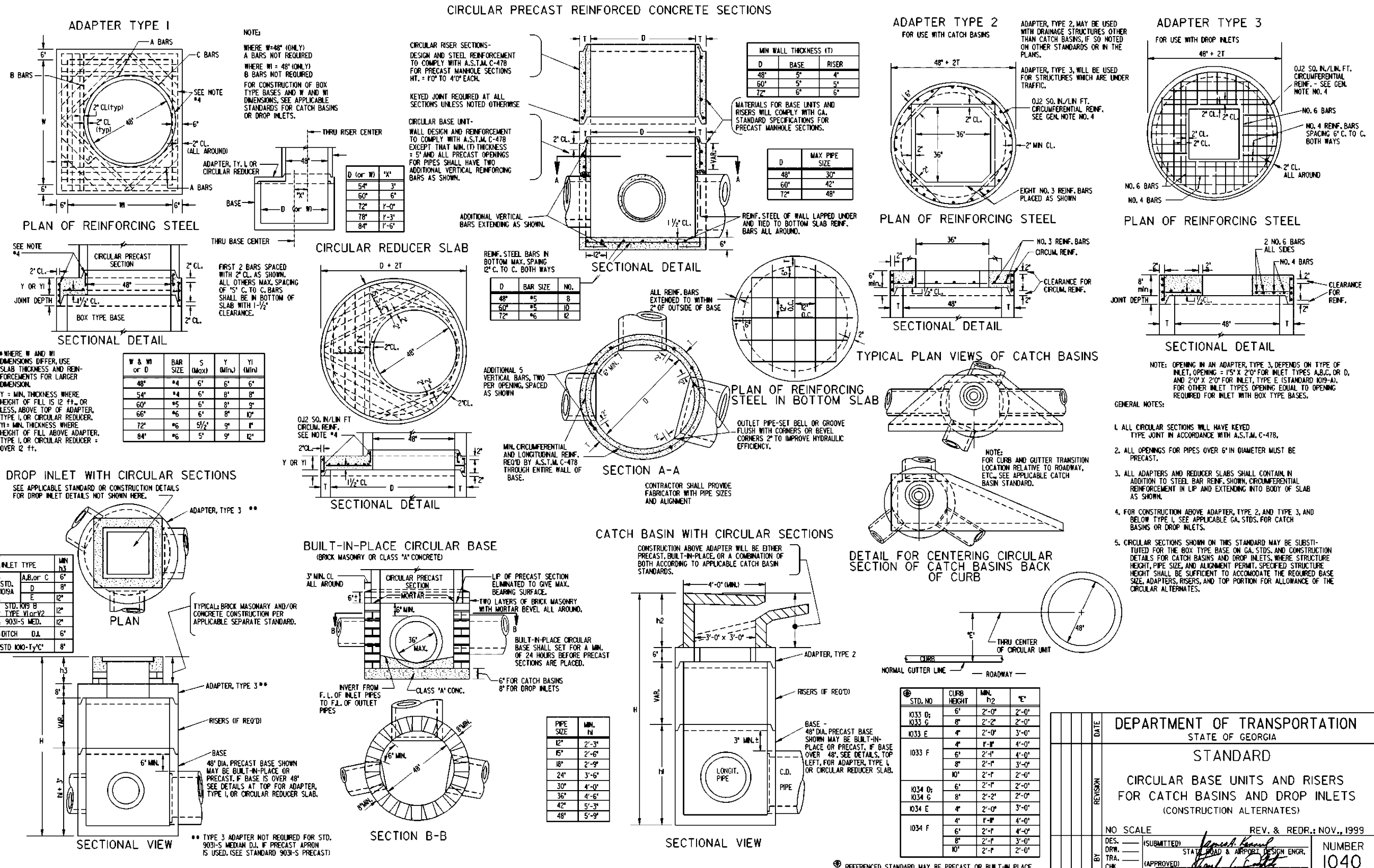
STANDARD
SD-5



GRASS CHANNEL

NOTES:
 1. SUBGRADE TO BE COMPACTED TO 95% MAX. DRY DENSITY PER STANDARD PROCTOR.
 2. REINFORCEMENT STEEL SHALL BE PLACED TO ALLOW A MIN. OF 1 1/2" COVER, EXCEPT WHERE NOTED.
 3. REINFORCEMENT STEEL SHALL BE OF INTERMEDIATE GRADE AND SHALL CONSIST OF NO. 4 @ 6" O.C. E.W.
 4. ALL CONCRETE SHALL BE CLASS AAT 4000 PSI.
 5. WHEN 60" & 72" BASE SECTIONS ARE REQUIRED, AN ADAPTER SECTION SHALL BE USED IN CONJUNCTION WITH THE STANDARD COVER.
 6. CONCRETE TOP COVER THICKNESS: 8" - VEHICULAR TRAFFIC AREAS.

DI - DROP INLET



Copyright
 MYERS & CO.
 ALL RIGHTS RESERVED
 This drawing is the sole property of Myers & Co. and is not to be reproduced, copied, or stored in any retrieval system, without the prior written permission of Myers & Co.

Seal
 REGISTERED PROFESSIONAL ENGINEER
 NO. 25513
 CIVIL
 STATE OF GEORGIA
 8-17-20
 GS00021552

MYERS & CO.
 civil engineers

770-997-9793
 ed@myers-and-co.com

P.O. BOX 634
 GAINESVILLE, GA 30603

Project Description

HYDE MILL FARMS

DATE 5-12-20

JOB NO. 19-21

Sheet Title

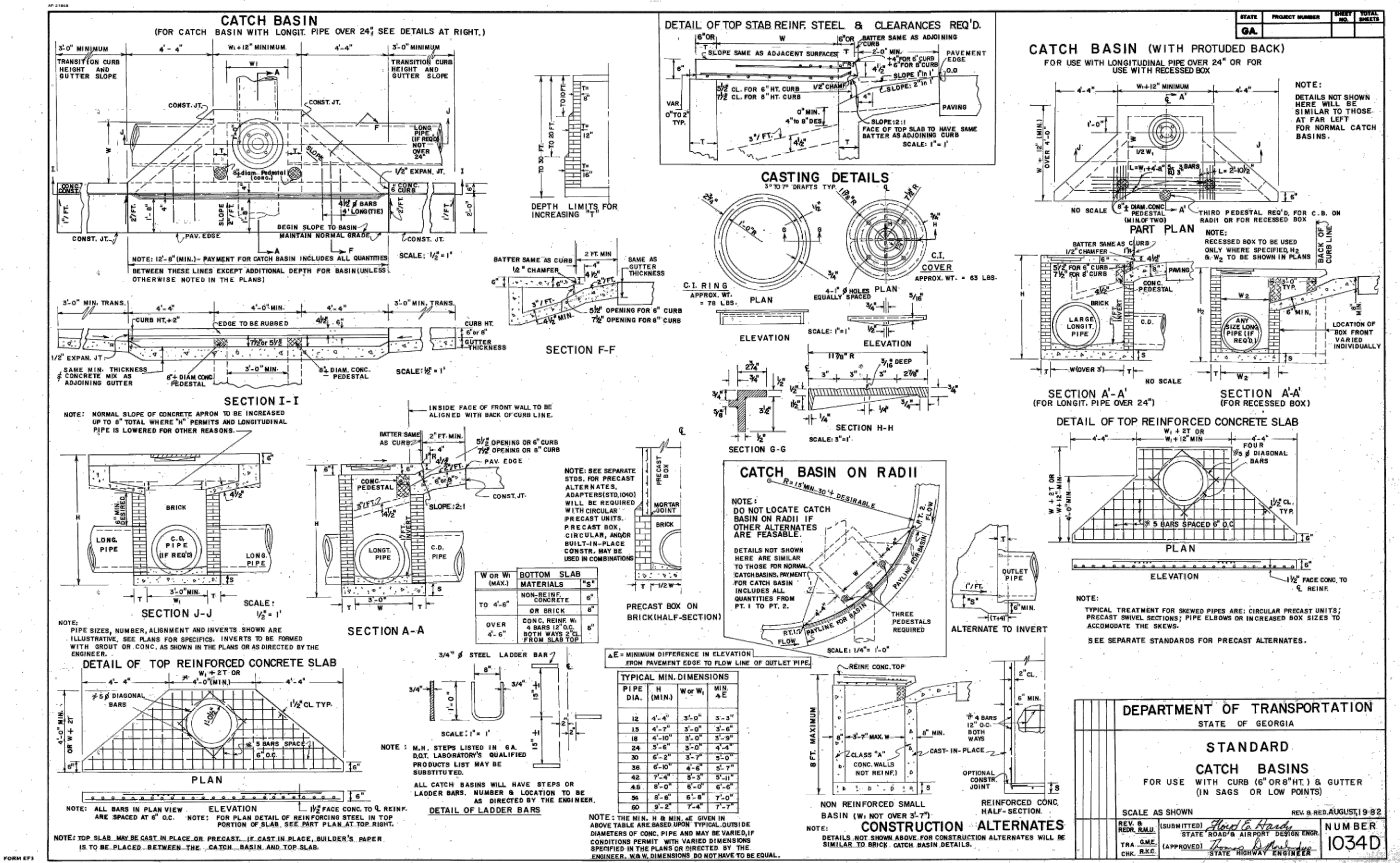
DETAILS

Revisions
 ① 8/17/20 - Addressed County comments.

DEPARTMENT OF TRANSPORTATION
 STATE OF GEORGIA

STANDARD
 PRECAST REINFORCED CONCRETE
 MANHOLE

D-1



D-3