

DEVELOPMENT PLANS FOR NORTH QUARTERS SUBDIVISION

PHASES 3 & 4

LAND LOT 267 OF THE 23RD DISTRICT & 3RD SECTION OF FLOYD COUNTY, GEORGIA

OWNER :
NORTH QUARTERS, LLC
P.O. BOX 286
ROME, GEORGIA 30162

24 HOUR CONTACT:
NORTH QUARTERS, LLC
P.O. BOX 286
ROME, GEORGIA 30162
MR. BRIAN SPEARS
PHONE: 706-346-2992

THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES SHALL OCCUR PRIOR TO, OR CONCURRENT WITH, LAND DISTURBING ACTIVITIES.

CONSTRUCTION WASTE AND/OR VEGETATIVE MATERIAL MAY NOT BE BURNED OR BURIED AND MUST BE TAKEN TO A STATE APPROVED LANDFILL.

PROJECT MUST COMPLY WITH THE GEORGIA DEPARTMENT OF NATURAL RESOURCES, ENVIRONMENTAL PROTECTION DIVISION (EPD), GENERAL PERMIT GAR 100003 AUTHORIZING THE DISCHARGE OF STORMWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).

THIS PROJECT REQUIRES NOTIFICATION TO THE GEORGIA E.P.D. BY SUBMITTING A NOTICE OF INTENT (NOI) TO THE E.P.D. DISTRICT.



GSWCC CERTIFICATION #22354

PROJECT NO. E131F
APRIL 13, 2017

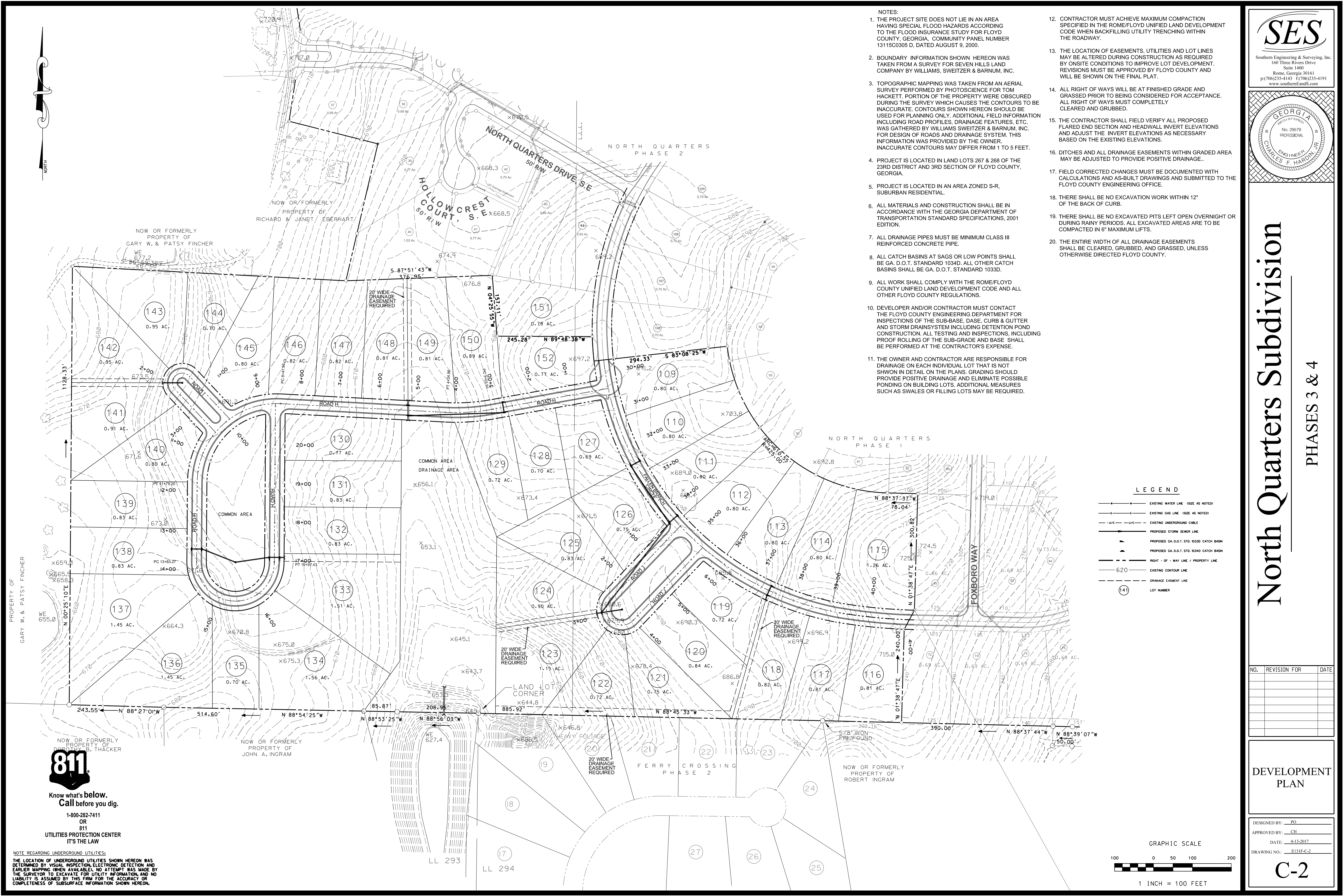


Southern Engineering & Surveying, Inc.
160 Three Rivers Drive
Suite 1400
Rome, Georgia 30161
ph:(706)235-4143 f:(706)235-4191
www.southernEandS.com

INDEX TO DRAWINGS

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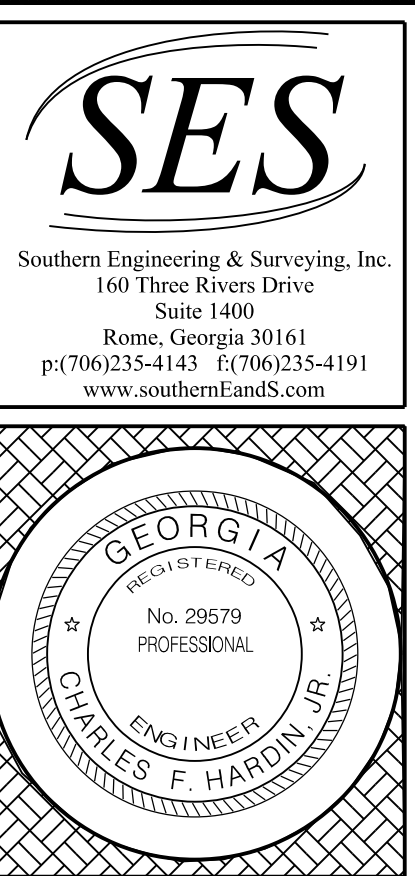
LOCATION MAP
NOT TO SCALE



- NOTES:
1. THE PROJECT SITE DOES NOT LIE IN AN AREA HAVING SPECIAL FLOOD HAZARDS ACCORDING TO THE FLOOD INSURANCE STUDY FOR FLOYD COUNTY, GEORGIA, COMMUNITY PANEL NUMBER 13115C0305 D, DATED AUGUST 9, 2000.
 2. BOUNDARY INFORMATION SHOWN HEREON WAS TAKEN FROM A SURVEY FOR SEVEN HILLS LAND COMPANY BY WILLIAMS, SWEITZER & BARNUM, INC.
 3. TOPOGRAPHIC MAPPING WAS TAKEN FROM AN AERIAL SURVEY PERFORMED BY PHOTOSCIENCE FOR TOM HACKETT. PORTION OF THE PROPERTY WERE OBLSCURED DURING THE SURVEY WHICH CAUSES THE CONTOURS TO BE INACCURATE. CONTOURS SHOWN HEREON SHOULD BE USED FOR PLANNING ONLY. ADDITIONAL FIELD INFORMATION INCLUDING ROAD PROFILES, DRAINAGE FEATURES, ETC. WAS GATHERED BY WILLIAMS SWEITZER & BARNUM, INC. FOR DESIGN OF ROADS AND DRAINAGE SYSTEM. THIS INFORMATION WAS PROVIDED BY THE OWNER. INACCURATE CONTOURS MAY DIFFER FROM 1 TO 5 FEET.
 4. PROJECT IS LOCATED IN LAND LOTS 267 & 268 OF THE 23RD DISTRICT AND 3RD SECTION OF FLOYD COUNTY, GEORGIA.
 5. PROJECT IS LOCATED IN AN AREA ZONED S-R, SUBURBAN RESIDENTIAL.
 6. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, 2001 EDITION.
 7. ALL DRAINAGE PIPES MUST BE MINIMUM CLASS III REINFORCED CONCRETE PIPE.
 8. ALL CATCH BASINS AT SAGS OR LOW POINTS SHALL BE GA. D.O.T. STANDARD 1034D. ALL OTHER CATCH BASINS SHALL BE GA. D.O.T. STANDARD 1033D.
 9. ALL WORK SHALL COMPLY WITH THE ROME/FLOYD COUNTY UNIFIED LAND DEVELOPMENT CODE AND ALL OTHER FLOYD COUNTY REGULATIONS.
 10. DEVELOPER AND/OR CONTRACTOR MUST CONTACT THE FLOYD COUNTY ENGINEERING DEPARTMENT FOR INSPECTIONS OF THE SUB-BASE, DASE, CURB & GUTTER AND STORM DRAIN SYSTEM INCLUDING DETENTION POND CONSTRUCTION. ALL TESTING AND INSPECTIONS, INCLUDING PROOF ROLLING OF THE SUB-GRADE AND BASE, SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.
 11. THE OWNER AND CONTRACTOR ARE RESPONSIBLE FOR DRAINAGE ON EACH INDIVIDUAL LOT THAT IS NOT SHOWN IN DETAIL ON THE PLANS. GRADING SHOULD PROVIDE POSITIVE DRAINAGE AND ELIMINATE POSSIBLE PONDING ON BUILDING LOTS. ADDITIONAL MEASURES SUCH AS SWALES OR FILLING LOTS MAY BE REQUIRED.
 12. CONTRACTOR MUST ACHIEVE MAXIMUM COMPACTION SPECIFIED IN THE ROME/FLOYD UNIFIED LAND DEVELOPMENT CODE WHEN BACKFILLING UTILITY TRENCHING WITHIN THE ROADWAY.
 13. THE LOCATION OF EASEMENTS, UTILITIES AND LOT LINES MAY BE ALTERED DURING CONSTRUCTION AS REQUIRED BY ONSITE CONDITIONS TO IMPROVE LOT DEVELOPMENT. REVISIONS MUST BE APPROVED BY FLOYD COUNTY AND WILL BE SHOWN ON THE FINAL PLAT.
 14. ALL RIGHT OF WAYS WILL BE AT FINISHED GRADE AND GRASSED PRIOR TO BEING CONSIDERED FOR ACCEPTANCE. ALL RIGHT OF WAYS MUST COMPLETELY BE CLEARED AND GRUBBED.
 15. THE CONTRACTOR SHALL FIELD VERIFY ALL PROPOSED FLARED END SECTION AND HEADWALL INVERT ELEVATIONS AND ADJUST THE INVERT ELEVATIONS AS NECESSARY BASED ON THE EXISTING ELEVATIONS.
 16. DITCHES AND ALL DRAINAGE EASEMENTS WITHIN GRADED AREA MAY BE ADJUSTED TO PROVIDE POSITIVE DRAINAGE.
 17. FIELD CORRECTED CHANGES MUST BE DOCUMENTED WITH CALCULATIONS AND AS-BUILT DRAWINGS AND SUBMITTED TO THE FLOYD COUNTY ENGINEERING OFFICE.
 18. THERE SHALL BE NO EXCAVATION WORK WITHIN 12" OF THE BACK OF CURB.
 19. THERE SHALL BE NO EXCAVATED PITS LEFT OPEN OVERNIGHT OR DURING RAINY PERIODS. ALL EXCAVATED AREAS ARE TO BE COMPACTED IN 6" MAXIMUM LIFTS.
 20. THE ENTIRE WIDTH OF ALL DRAINAGE EASEMENTS SHALL BE DIRECTED, GRUBBED, AND GRASSED, UNLESS OTHERWISE SPECIFIED FLOYD COUNTY.

LEGEND

	EXISTING WATER LINE (SIZE AS NOTED)
	EXISTING GAS LINE (SIZE AS NOTED)
	EXISTING UNDERGROUND CABLE
	PROPOSED STORM SEWER LINE
	PROPOSED GA D.O.T. STD. 1033D CATCH BASIN
	PROPOSED GA D.O.T. STD. 1034D CATCH BASIN
	RIGHT-OF-WAY LINE / PROPERTY LINE
	EXISTING CONTOUR LINE
	DRAINAGE EASEMENT LINE
	LOT NUMBER



North Quarters Subdivision

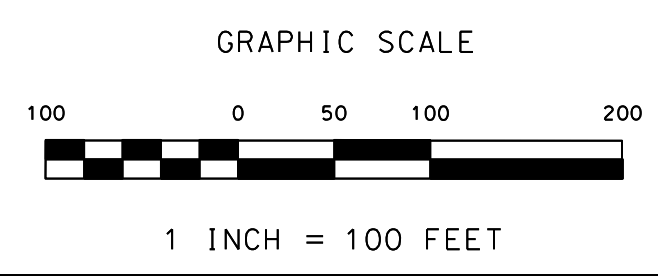
PHASES 3 & 4

NO.	REVISION FOR	DATE

DEVELOPMENT PLAN

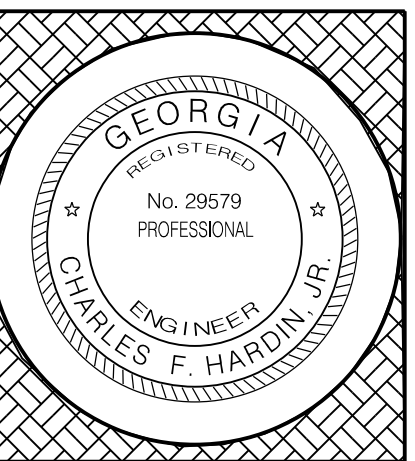
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 APPROVED BY: CH
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 DRAWING NO.: E131E-2

C-2



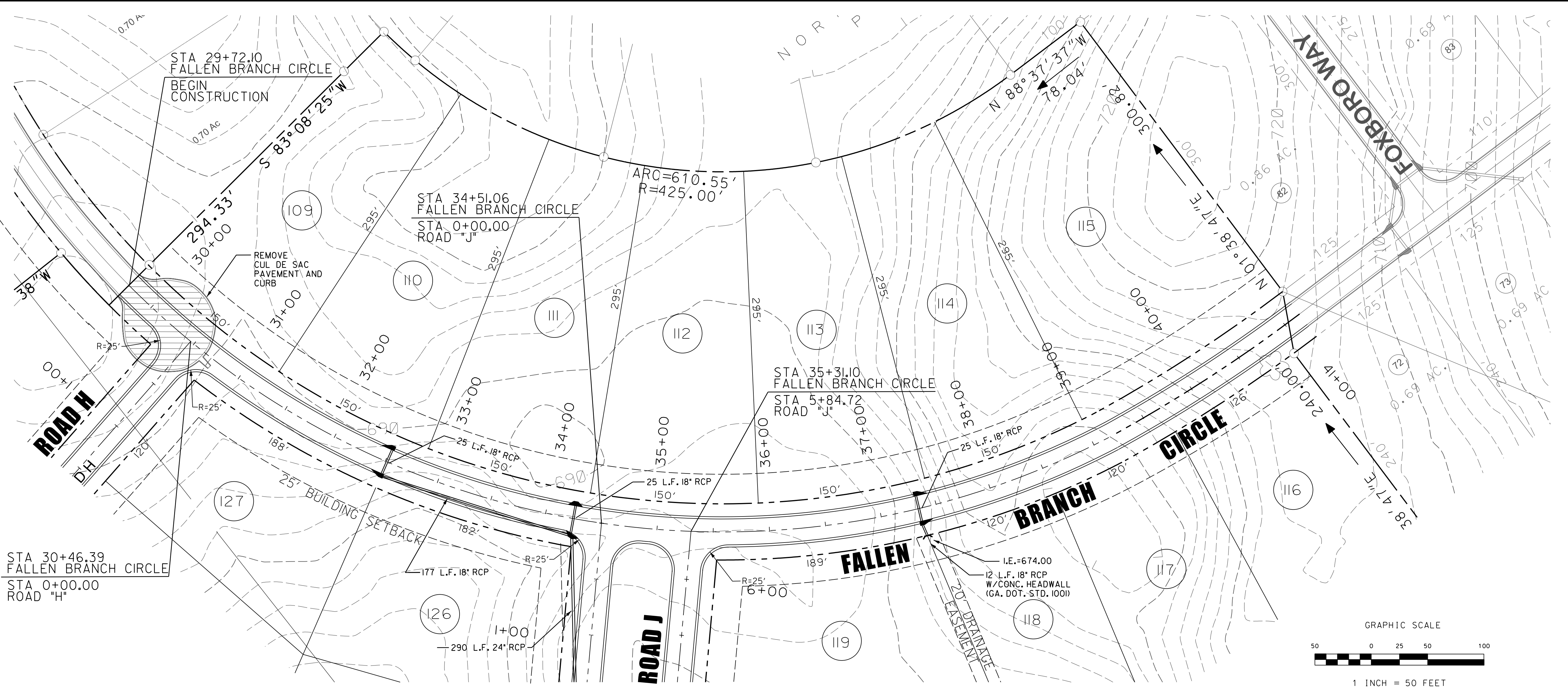
Know what's below.
 Call before you dig.
 1-800-282-7411
 OR
 811
 UTILITIES PROTECTION CENTER
 IT'S THE LAW

NOTE REGARDING UNDERGROUND UTILITIES:
 THE LOCATION OF UNDERGROUND UTILITIES SHOWN HEREON WAS DETERMINED BY VISUAL INSPECTION, ELECTRONIC DETECTION AND EARLIER MAPPING (WHEN AVAILABLE). NO ATTEMPT WAS MADE BY THE SURVEYOR TO EXCAVATE FOR UTILITY INFORMATION, AND NO LIABILITY IS ASSUMED BY THIS FIRM FOR THE ACCURACY OR COMPLETENESS OF SUBSURFACE INFORMATION SHOWN HEREON.



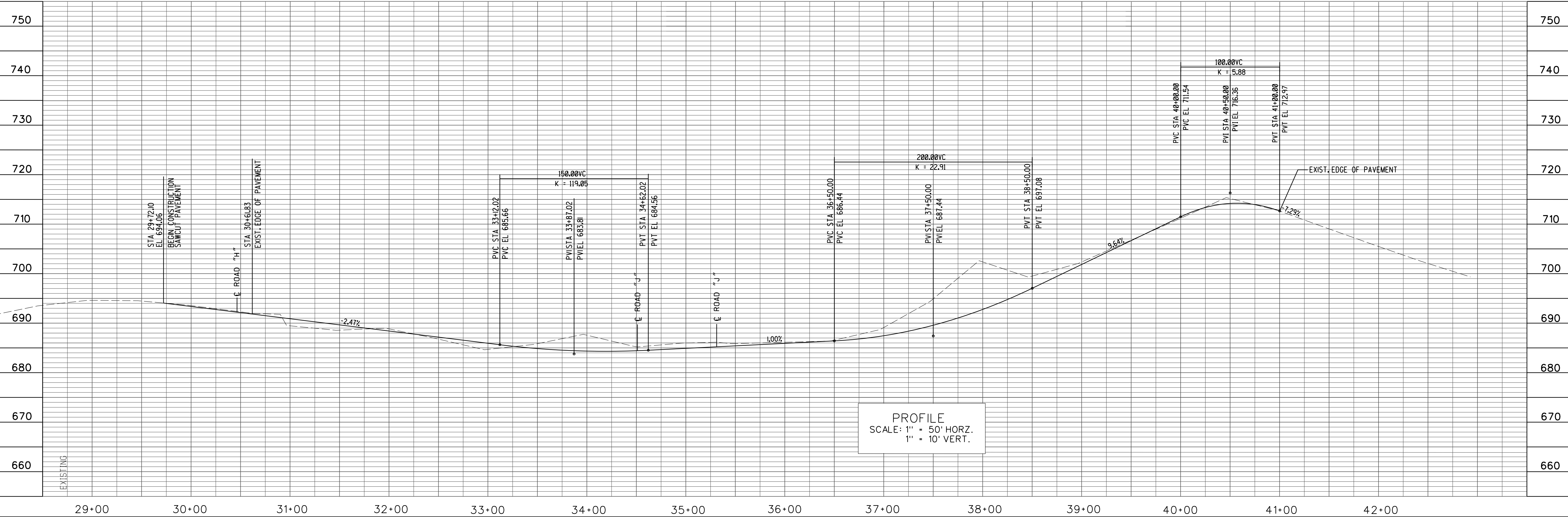
North Quarters Subdivision

PHASES 3 & 4



LEGEND

- EXISTING WATER LINE (SIZE AS NOTED)
- EXISTING GAS LINE (SIZE AS NOTED)
- EXISTING OVERHEAD POWER LINE
- ◇— EXISTING UTILITY POLE
- EXISTING OVERHEAD TELEPHONE LINE
- UVC— EXISTING UNDERGROUND CABLE
- SS— EXISTING SEWER LINE (SIZE AS NOTED)
- EXISTING MANHOLE
- PROPOSED STORM SEWER LINE
- PROPOSED GA. D.O.T. STD. 10330 CATCH BASIN
- PROPOSED GA. D.O.T. STD. 10340 CATCH BASIN
- — — OF — WAY LINE / PROPERTY LINE
- — — PROP. SEWER / DRAINAGE EASEMENT LINE
- (141) LOT NUMBER

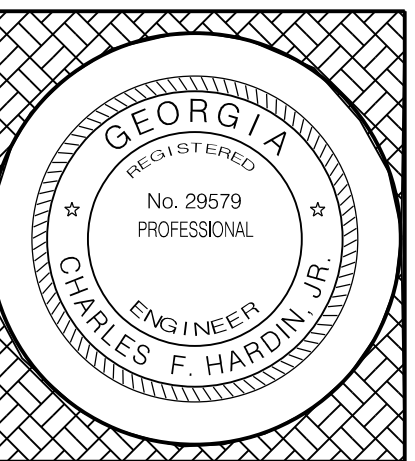


NO.	REVISION FOR	DATE

FALLEN BRANCH CIRCLE PLAN AND PROFILE

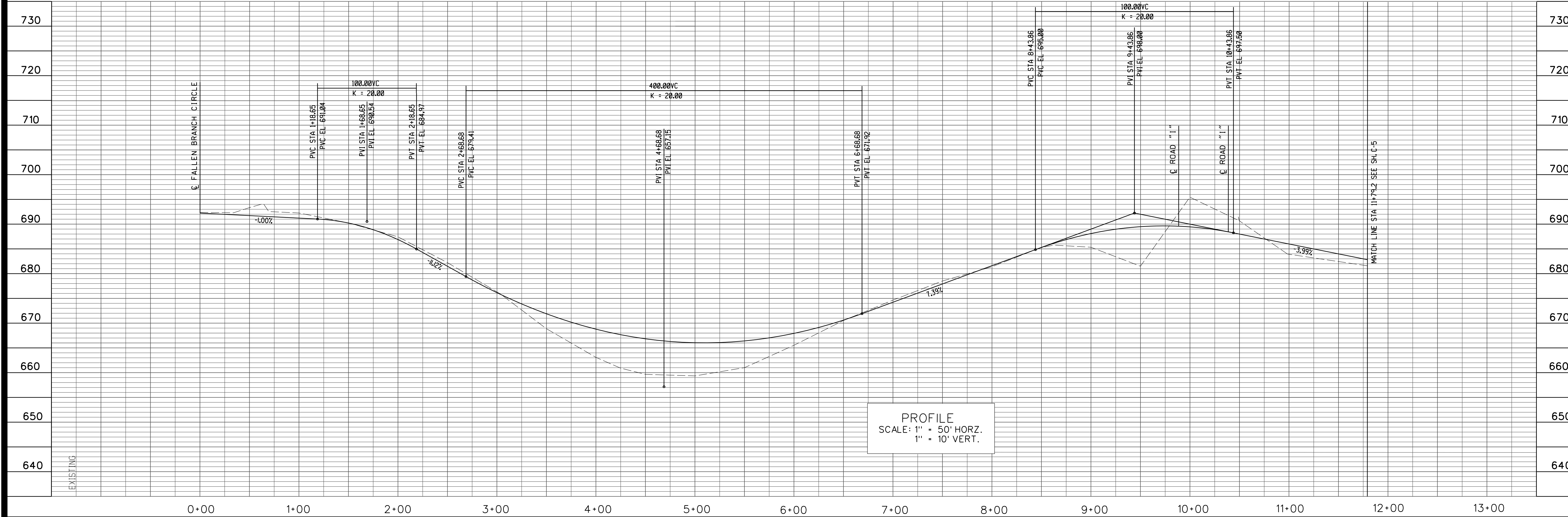
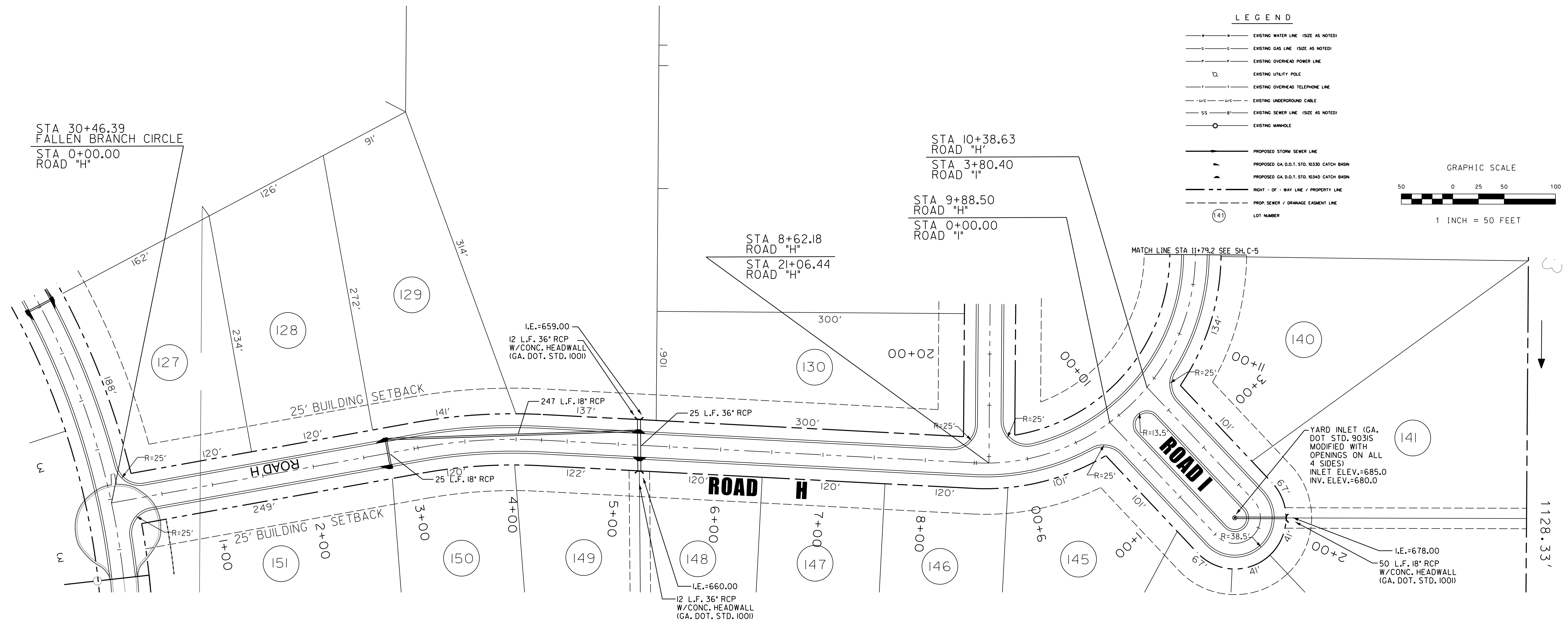
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C-3



North Quarters Subdivision

PHASES 3 & 4

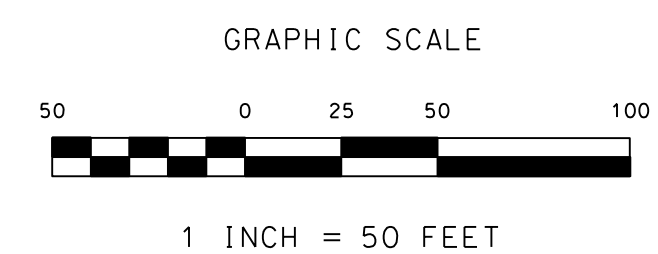
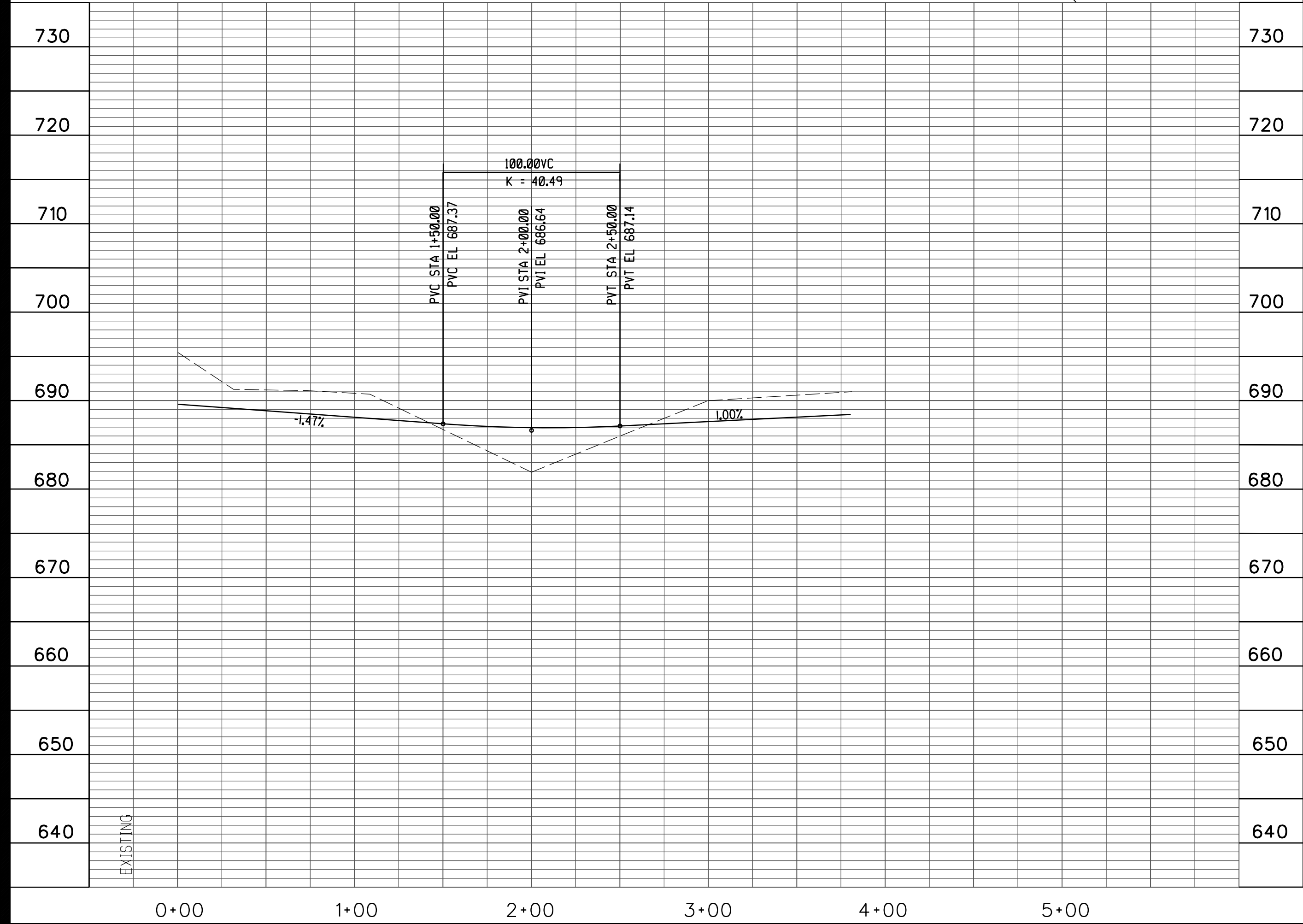
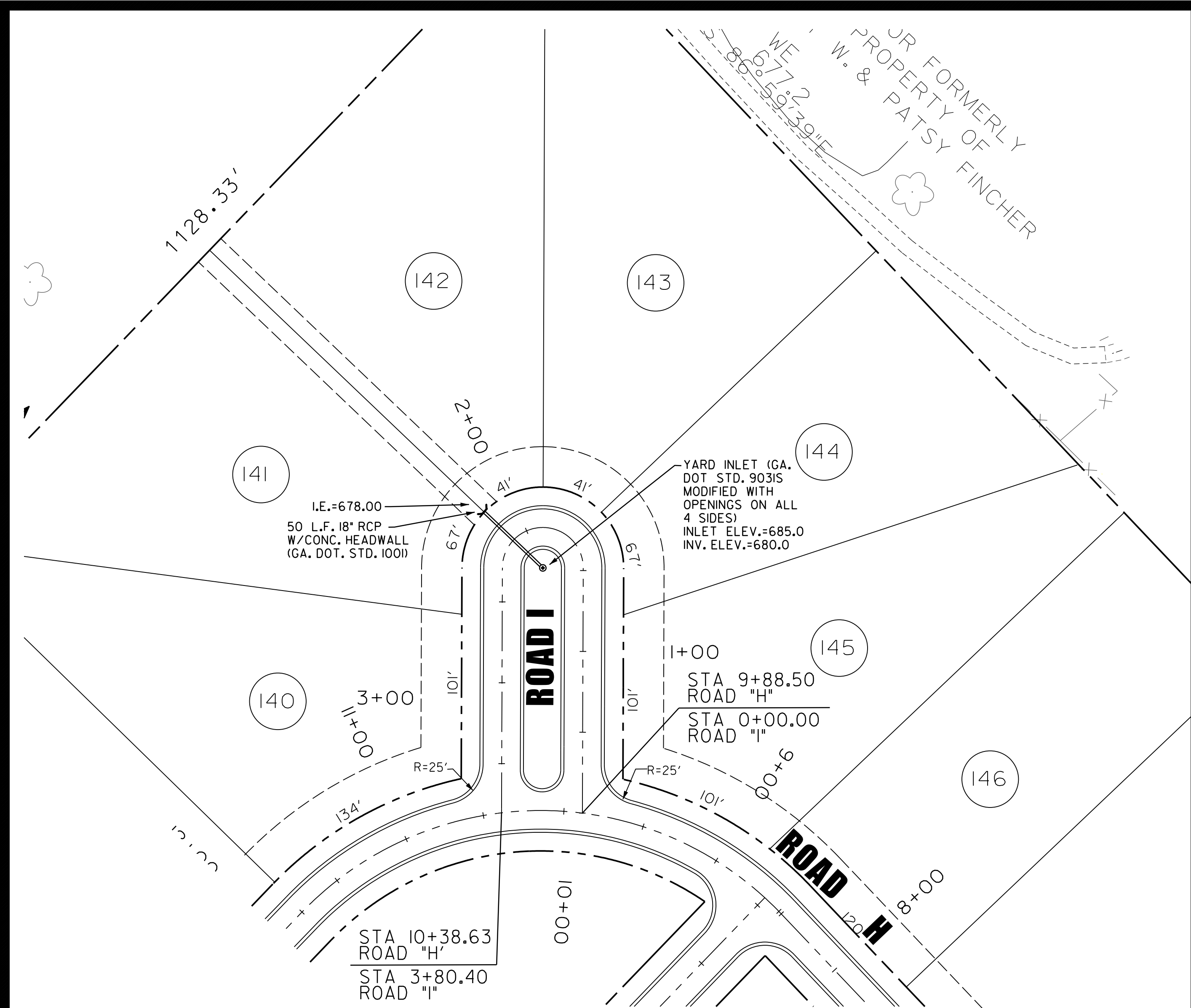


NO.	REVISION FOR	DATE

ROAD H PLAN AND PROFILE

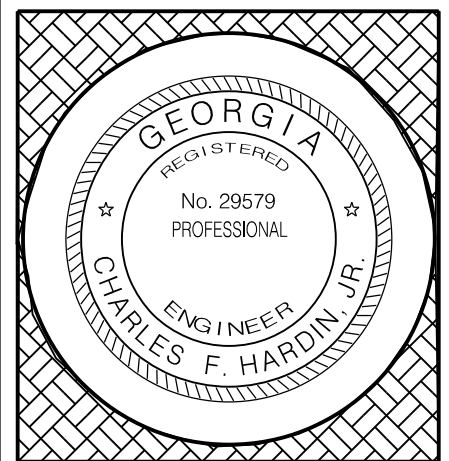
DESIGNED BY: PD
 APPROVED BY: CH
 DATE: 4-13-2017
 DRAWING NO.: E-131F-C-4

C-4



- LEGEND**
- (with arrow) — EXISTING WATER LINE (SIZE AS NOTED)
 - (with 'G') — EXISTING GAS LINE (SIZE AS NOTED)
 - (with 'P') — EXISTING OVERHEAD POWER LINE
 - (with 'L') — EXISTING LITLTY POLE
 - (with 'T') — EXISTING OVERHEAD TELEPHONE LINE
 - (with 'U/C') — EXISTING UNDERGROUND CABLE
 - (with 'S') — EXISTING SEWER LINE (SIZE AS NOTED)
 - EXISTING MANHOLE
 - (with arrow) — PROPOSED STORM SEWER LINE
 - (with 'C') — PROPOSED GA. D.O.T. STD. 10330 CATCH BASIN
 - (with 'B') — PROPOSED GA. D.O.T. STD. 10340 CATCH BASIN
 - (dashed) — RIGHT - OF - WAY LINE / PROPERTY LINE
 - (dashed) — PROP. SEWER / DRAINAGE EASEMENT LINE
 - ① LOT NUMBER

PROFILE
 SCALE: 1" = 50' HORZ.
 1" = 10' VERT.



North Quarters Subdivision

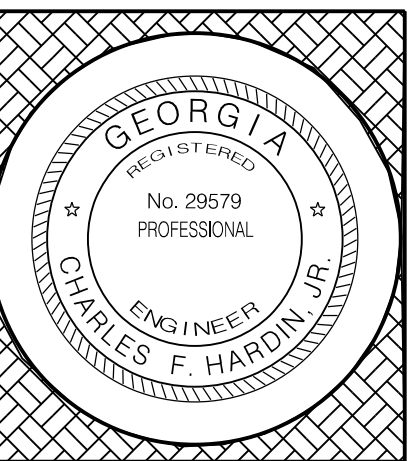
PHASES 3 & 4

NO.	REVISION FOR	DATE

**ROAD I
 PLAN AND
 PROFILE**

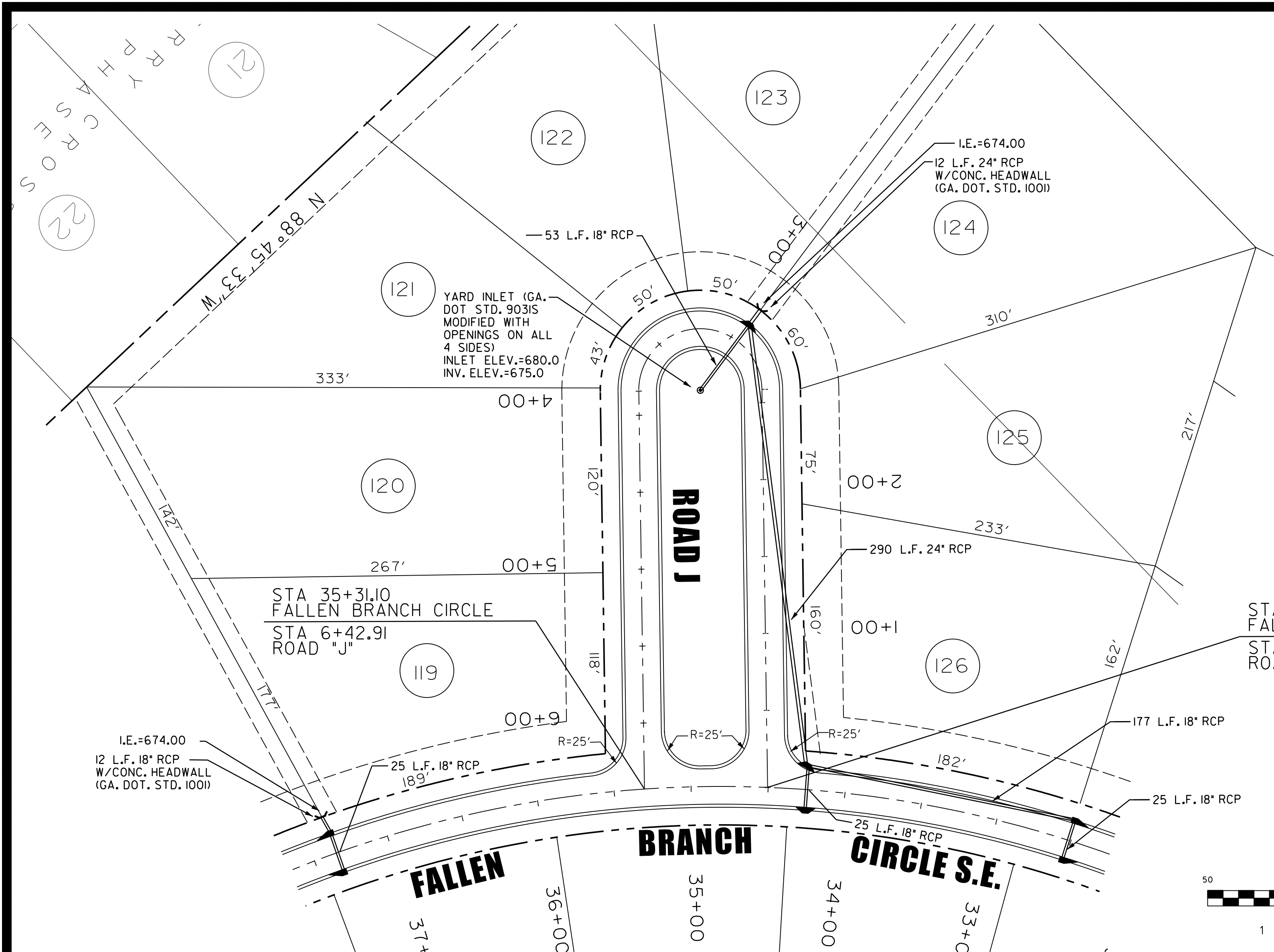
DESIGNED BY: PO
 APPROVED BY: CH
 DATE: 4-13-2017
 DRAWING NO.: E131F-C-6

C-6



North Quarters Subdivision

PHASES 3 & 4



LEGEND

- EXISTING WATER LINE (SIZE AS NOTED)
- EXISTING GAS LINE (SIZE AS NOTED)
- EXISTING OVERHEAD POWER LINE
- EXISTING UTILITY POLE
- EXISTING OVERHEAD TELEPHONE LINE
- EXISTING UNDERGROUND CABLE
- EXISTING SEWER LINE (SIZE AS NOTED)
- EXISTING MANHOLE
- PROPOSED STORM SEWER LINE
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- RIGHT - OF - WAY LINE / PROPERTY LINE
- PROP. SEWER / DRAINAGE EASMENT LINE
- ① LOT NUMBER



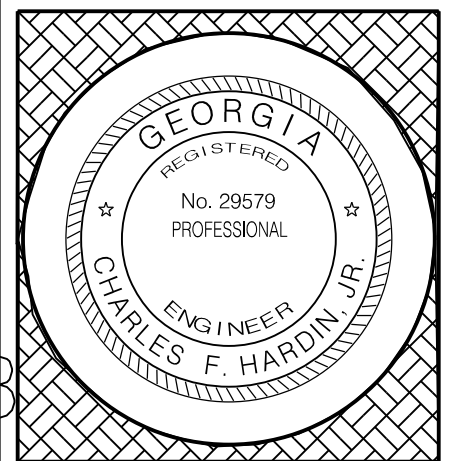
PROFILE
SCALE: 1" = 50' HORZ.
1" = 10' VERT.

NO.	REVISION FOR	DATE

**ROAD J
PLAN AND
PROFILE**

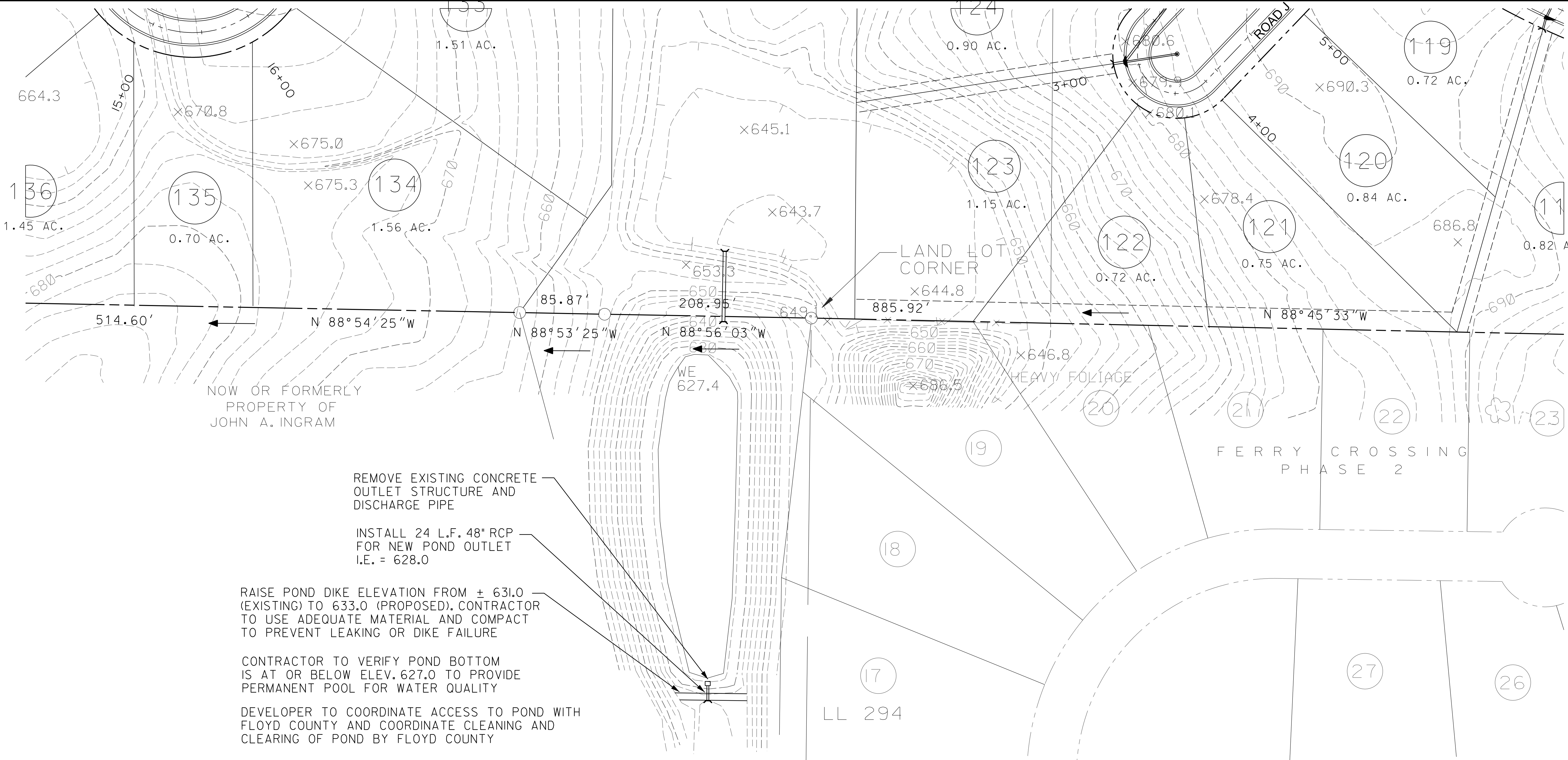
DESIGNED BY: PD
APPROVED BY: CH
DATE: 4-13-2017
DRAWING NO.: E1121F-C-7

C-7



North Quarters Subdivision

PHASES 3 & 4



NOW OR FORMERLY
 PROPERTY OF
 JOHN A. INGRAM

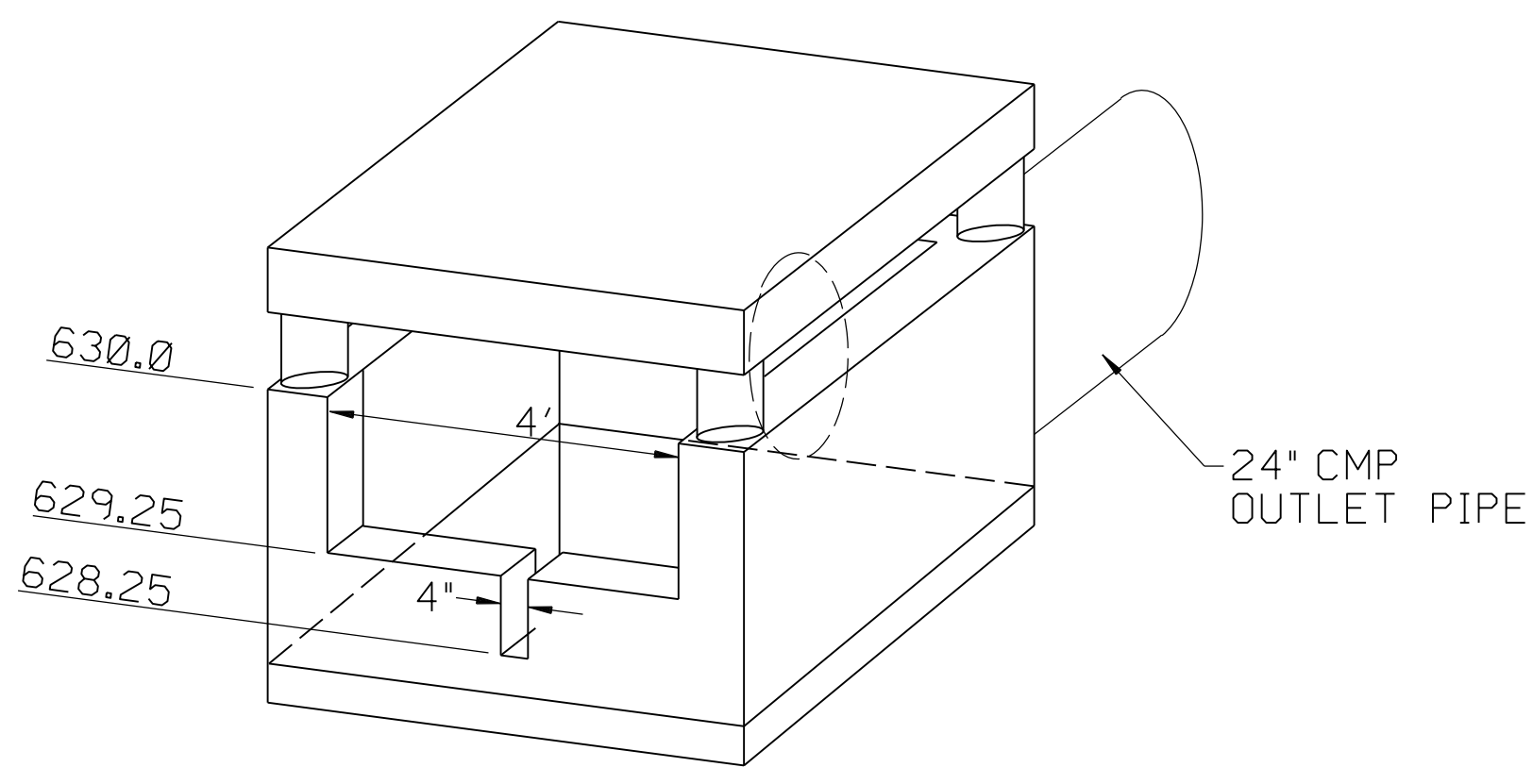
REMOVE EXISTING CONCRETE
 OUTLET STRUCTURE AND
 DISCHARGE PIPE

INSTALL 24 L.F. 48" RCP
 FOR NEW POND OUTLET
 I.E. = 628.0

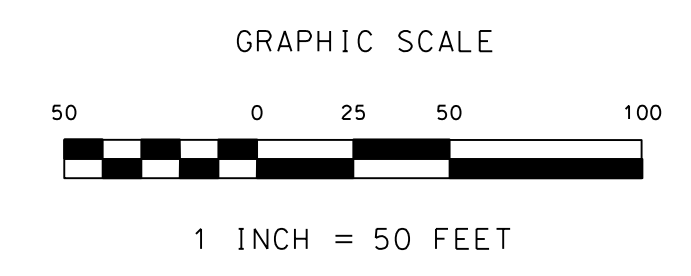
RAISE POND DIKE ELEVATION FROM ± 631.0
 (EXISTING) TO 633.0 (PROPOSED). CONTRACTOR
 TO USE ADEQUATE MATERIAL AND COMPACT
 TO PREVENT LEAKING OR DIKE FAILURE

CONTRACTOR TO VERIFY POND BOTTOM
 IS AT OR BELOW ELEV. 627.0 TO PROVIDE
 PERMANENT POOL FOR WATER QUALITY

DEVELOPER TO COORDINATE ACCESS TO POND WITH
 FLOYD COUNTY AND COORDINATE CLEANING AND
 CLEARING OF POND BY FLOYD COUNTY



EXISTING OUTLET CONTROL STRUCTURE
 (TO BE REMOVED)



NO.	REVISION FOR	DATE

**STORMWATER
 DETENTION
 POND
 PLAN**

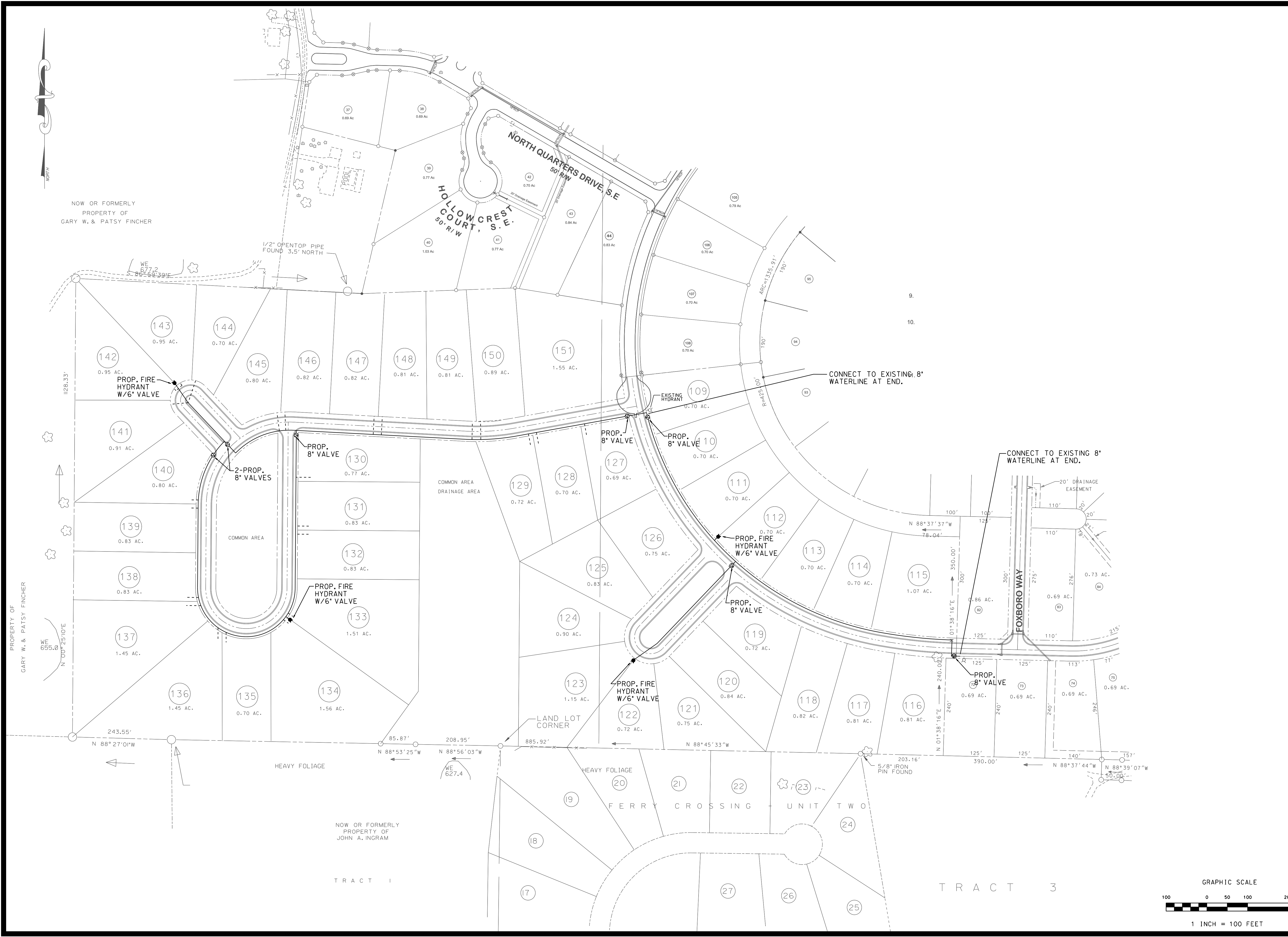
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 DRAWING NO.: E-131F-C-8

C-8



North Quarters Subdivision

PHASES 3 & 4

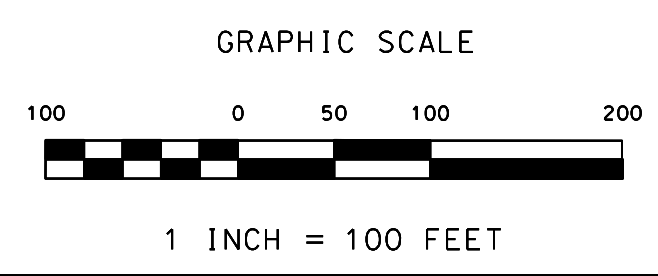


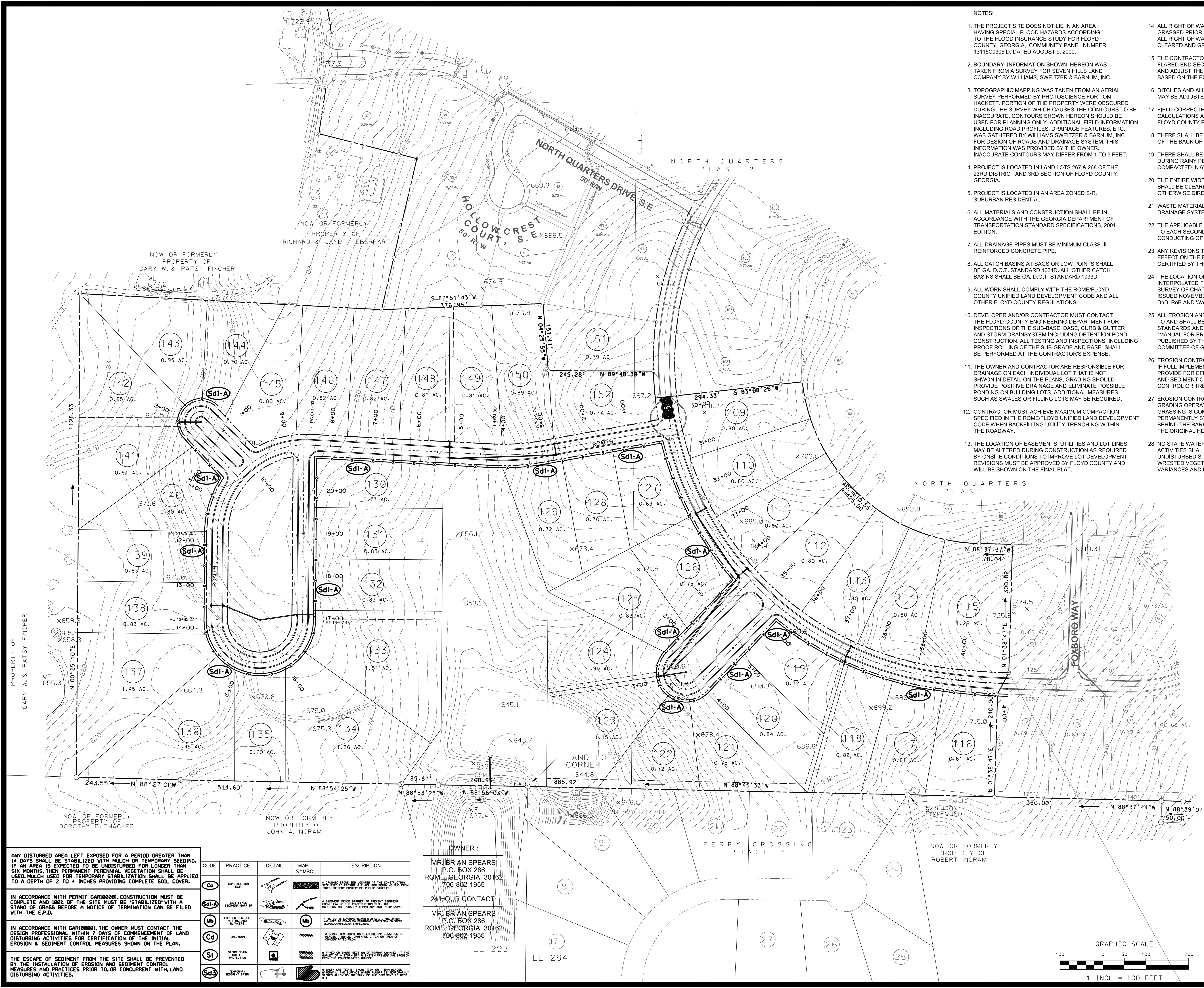
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WATER LAYOUT

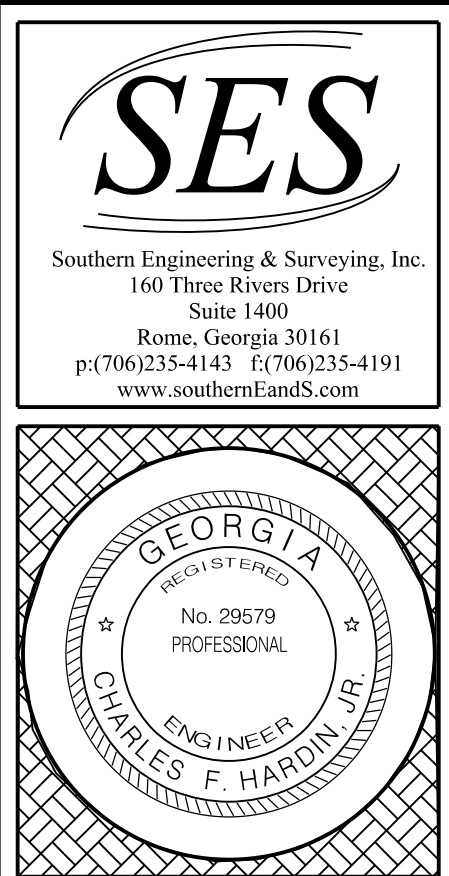
DESIGNED BY: PO
APPROVED BY: CH
DATE: 4-13-2017
DRAWING NO.: E1121F-C-9

C-9





- NOTES:
1. THE PROJECT SITE DOES NOT LIE IN AN AREA HAVING SPECIAL FLOOD HAZARDS ACCORDING TO THE FLOOD INSURANCE STUDY FOR FLOYD COUNTY, GEORGIA. COMMUNITY PANEL NUMBER 131150305 D, DATED AUGUST 9, 2000.
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 18. THERE SHALL BE NO EXCAVATION WORK WITHIN 12" OF THE BACK OF CURB.
 19. THERE SHALL BE NO EXCAVATED PITS LEFT OPEN OVERNIGHT OR DURING RAINY PERIODS. ALL EXCAVATED AREAS ARE TO BE COMPACTED IN 6" MAXIMUM LIFTS.
 20. THE ENTIRE WIDTH OF ALL DRAINAGE EASEMENTS SHALL BE CLEARED, GRUBBED, AND GRASSED, UNLESS OTHERWISE DIRECTED FLOYD COUNTY.
 21. WASTE MATERIALS SHALL NOT BE DISCHARGED INTO THE DRAINAGE SYSTEM FROM THIS SITE.
 22. THE APPLICABLE PORTION OF THE ESPC PLAN IS TO BE PROVIDED TO EACH SECONDARY PERMITTEE PRIOR TO THE SECONDARY CONDUCTING OF ANY CONSTRUCTION ACTIVITY.
 23. ANY REVISIONS TO THE ESPC PLAN THAT RESULT IN A SIGNIFICANT EFFECT ON THE BMP'S WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
 24. THE LOCATION OF THE SOIL SERIES SHOWN ON THIS PLAN WAS INTERPOLATED FROM SHEET NO. 43 OF THE PUBLICATION, SOIL SURVEY OF CHATTOOGA, FLOYD AND POLK COUNTIES, GEORGIA ISSUED NOVEMBER 1978. SOILS ON THE PROJECT SITE ARE: Dhd, RoB and Wab.
 25. ALL EROSION AND SEDIMENT CONTROL DESIGNS SHALL CONFORM TO AND SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE PUBLICATION TITLED "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", PUBLISHED BY THE STATE SOIL AND WATER CONSERVATION COMMITTEE OF GEORGIA.
 26. 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.
 27. EROSION CONTROL BARRIERS ARE TO BE PUT IN PLACE BEFORE GRADING OPERATIONS BEGIN AND SHALL BE LEFT IN PLACE UNTIL GRASSING IS COMPLETE AND THE DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. SEDIMENT SHALL BE REMOVED FROM BEHIND THE BARRIERS ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER.
 28. NO STATE WATERS EXIST WITHIN 200' OF THIS SITE. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50 FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS.



North Quarters Subdivision

PHASES 3 & 4

NO.	REVISION FOR	DATE

EROSION & SEDIMENT CONTROL PLAN

INITIAL PHASE

DESIGNED BY: PO
 APPROVED BY: CH
 DATE: 4-13-2017
 DRAWING NO.: E111F-C-10

C-10

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ca	CONSTRUCTION ERT			A REINFORCED STONE BED LOCATED AT THE CONSTRUCTION SITE TO PROTECT AND PROTECT FROM THE THINEST PROTECTIVE PUBLIC STREET.
Sd1-A	SILT FENCE			A SEDIMENT FENCE BARRIER TO PREVENT SEDIMENT FROM ENTERING PUBLIC STREETS. THESE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.
Me	EROSION CONTROL MATS AND BLANKETS			A PROTECTIVE COVERING OR MATS TO STABILIZE SOIL TO PREVENT EROSION. VEGETATION ON STEEP SLOPES, SLOPES, OR SLOPES.
Co	DECOUCH			A SMALL, TEMPORARY, BARRIER OR DAM CONSTRUCTED TO PREVENT EROSION OF A LARGE AREA OF CONCENTRATED FLOW.
St	STORM DRAIN UTILITY PROTECTION			A COVER OR HOOD SECTION OF STORM DRAIN. ALL THE OUTLET OF A STORM DRAIN SYSTEM PREVENTING EROSION.
Sd3	TEMPORARY SEDIMENT BARRIERS			A BARRIER OR DAM CONSTRUCTED TO PREVENT EROSION OF A LARGE AREA OF CONCENTRATED FLOW. THESE BARRIERS ARE USUALLY TEMPORARY AND INEXPENSIVE.

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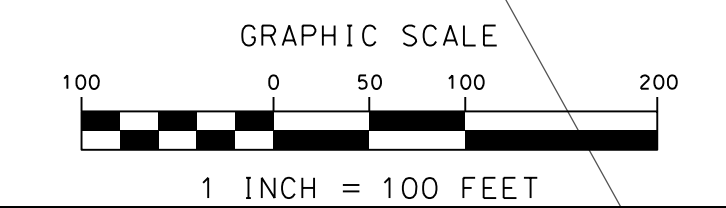
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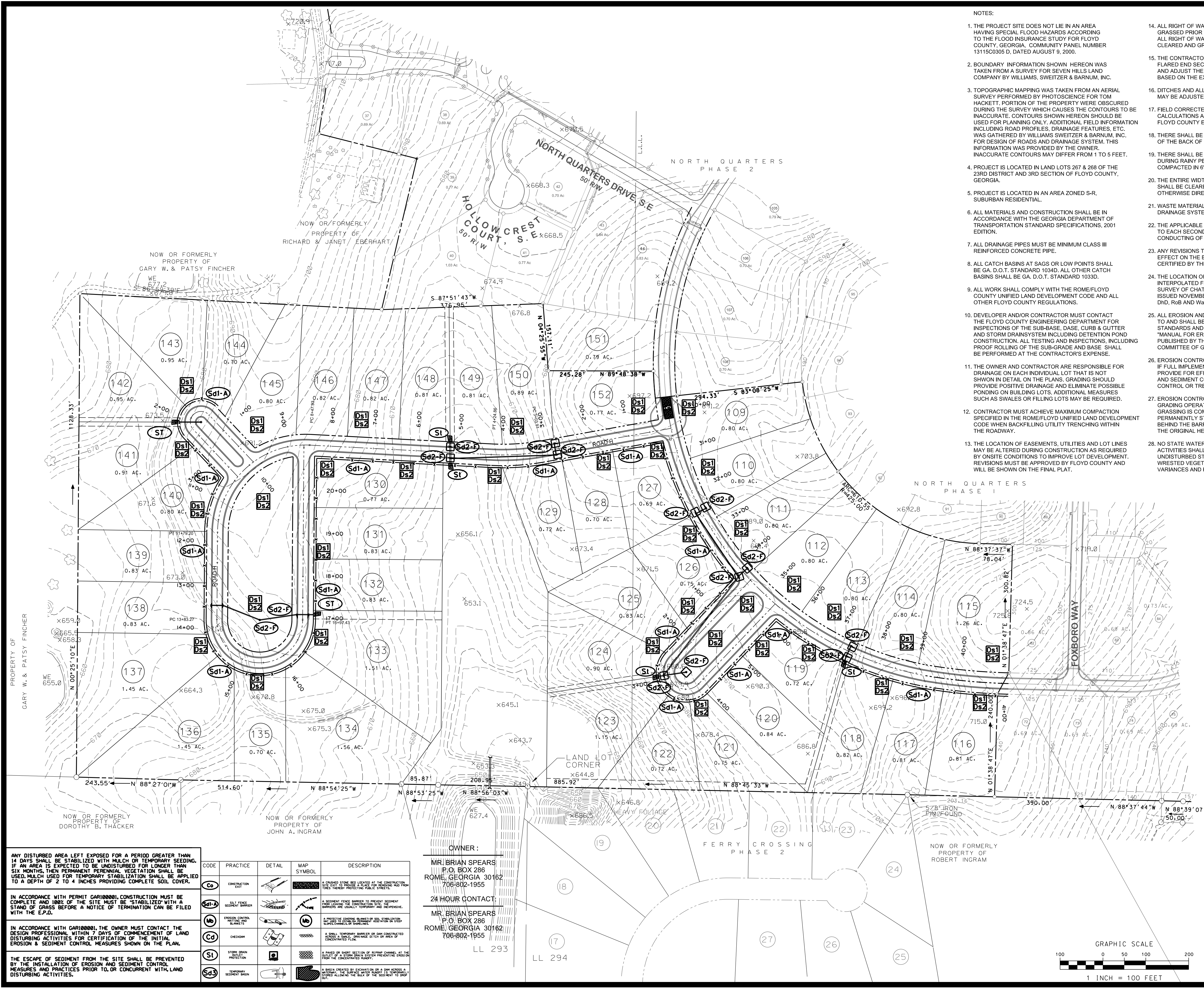


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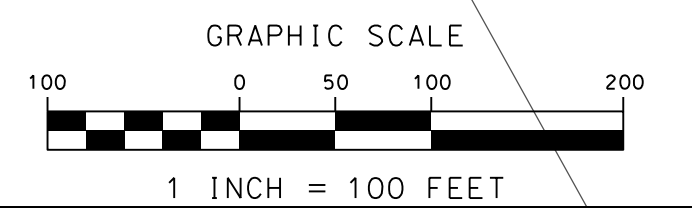
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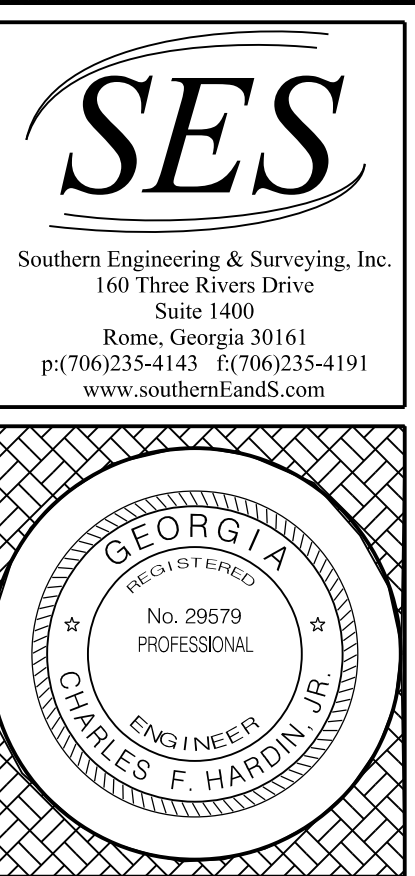
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North Quarters Subdivision

PHASES 3 & 4

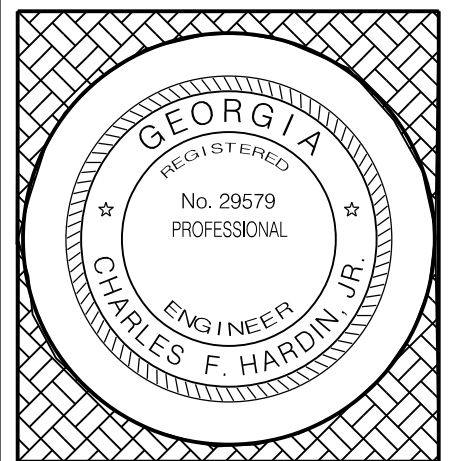
NO.	REVISION FOR	DATE

EROSION & SEDIMENT CONTROL PLAN

INTERMEDIATE PHASE

DESIGNED BY: PO
 APPROVED BY: CH
 DATE: 4-13-2017
 DRAWING NO: E111E-C-11

C-11



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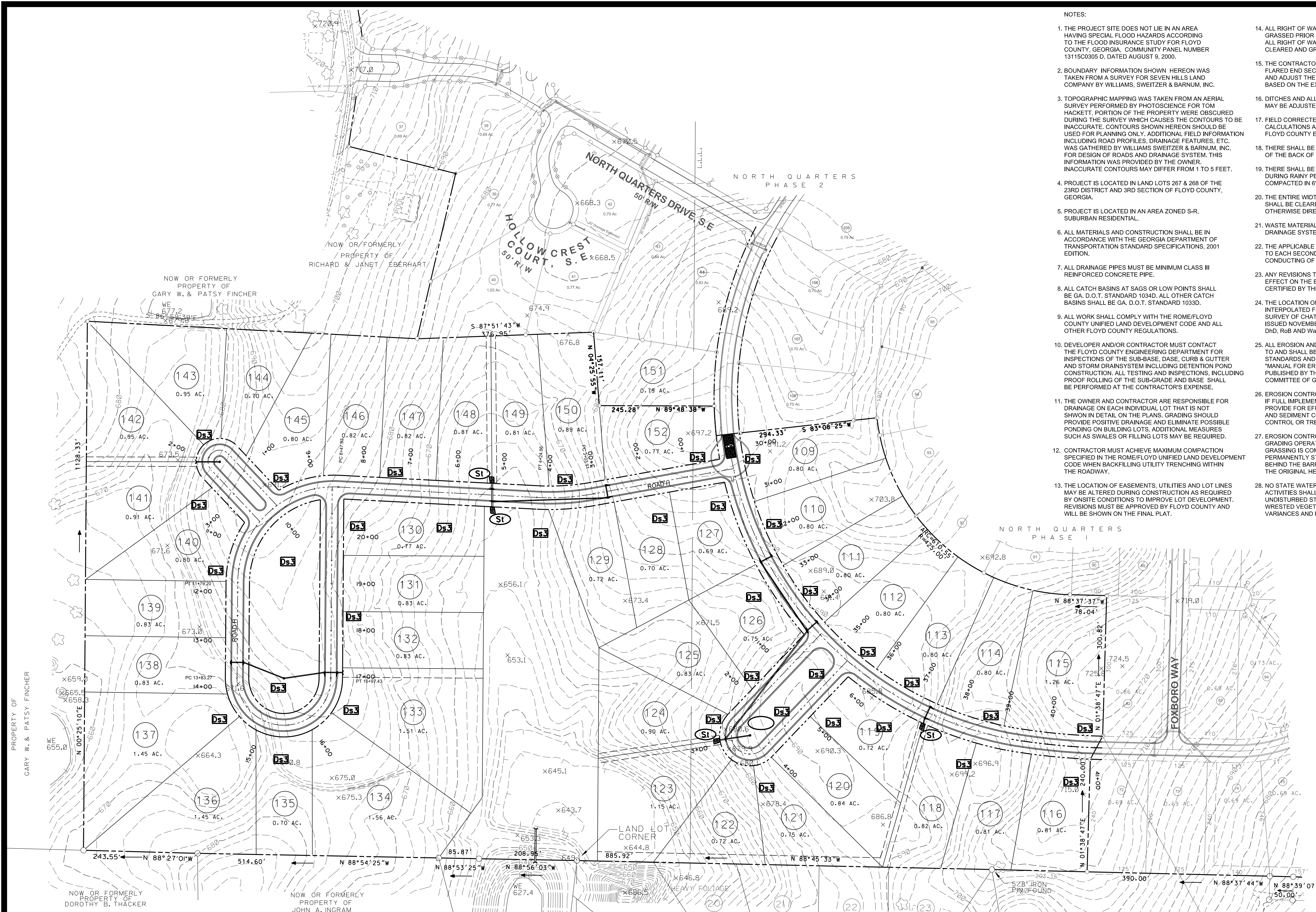
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APPROVED BY: CH
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DRAWING NO: E111F-C-12

C-12

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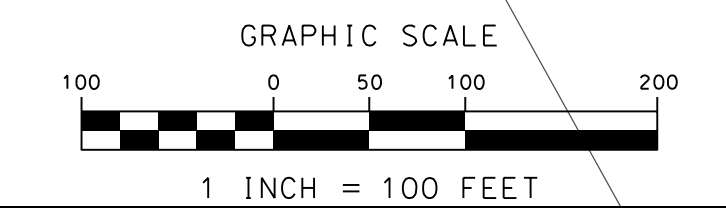
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NPDES GENERAL PERMIT GAR100001 COMPLIANCE NOTES AND MONITORING PROGRAM

1. SITE DESCRIPTION & NARRATIVE:

a. The proposed development will consist of the construction of a residential subdivision. The site is approximately 14.425 acres in size and approximately 14.425 acres will be disturbed.

Construction is expected to begin in May 2017 after initial E & S measures have been installed.

Soil types within the project are TqA, F&B & L&A.

All designs will conform to and all work will be performed in accordance with the publication entitled "Manual for Erosion and Sediment Control in Georgia" and the Georgia Department of Transportation Standard Specifications, 2001 Edition and subsequent amendments.

b. Initial perimeter Best Management Practices (BMPs) will be installed prior to any clearing, grubbing, or excavation. On this project, the perimeter BMP will be primarily silt fencing located along the existing curbs and construction walls. As ditch sections are brought to grade, ditch checks will be installed at the spacing indicated on the plans.

c. Total area for this site is 14.425 acres. The area expected to be disturbed is 14.425 acres. Total surface water drainage area is approximately 14.425 acres.

d. Pre-development runoff coefficient: C=0.25; Post-development: C=0.26.

e. Refer to the project construction plans for drainage patterns and approximate slopes after major grading has been accomplished. The Erosion, Sedimentation, and Pollution Control Plan (ESPCP) for this project identifies and generally locates all structural and non-structural controls. Further identified on the ESPCP are the storm water sampling points.

f. The receiving waters is an unnamed tributary to the Etowah River.

2. CONTROLS:

a. The escape of sediment from the site shall be prevented by the installation of erosion control measures and practices prior to or concurrent with land disturbing activities. It should be noted that additional vegetative and structural controls may need to be added in order to adequately control erosion and sedimentation deposition on the project. A record of the dates will be maintained when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the project, and when stabilization measures are initiated.

b. Construction Exit (Co) Construction exits will be constructed of stone. Minimum size of stone will be 1-1/2 to 3 inches in diameter. Construction exits will be a minimum of 50 feet long, 20 feet wide. The depth of the stone will be a minimum of 6 inches. A geotextile underlain will be put in place prior to backfilling with the stone. The purpose of the construction exit is to cut the mud from vehicle tire prior to leaving the site. Construction exits will be installed early and prior to egress from the site. A concrete curb wall will be employed along the existing drive to prevent the transport sediment from the site by vehicular traffic. See the erosion & sediment control plans for exact locations.

c. Disturbed Area Stabilization (with permanent vegetation) (Ds3). Ds3 is a vegetative BMP of permanent cover using grasses, trees, shrubs, or legumes on highly erodible or critically eroded lands. Permanent grassing will be accomplished in accordance with the vegetative plan outline on the ESPCP. Particular attention must be paid also to the lime, fertilizer, and seed rates of this plan. It may become necessary to stabilize some areas of the site during construction using means other than Ds3. This will be accomplished by Disturbed Area Stabilization (with mulching only) (Ds1). The rule of thumb for mulching is as follows: Where grass seed is put in place, mulch will be 1-1/2 to 3 inches deep. Where mulch only is applied, mulch will be 2 to 4 inches deep. Stabilization measures will be initiated as soon as practicable on the site where construction activities are completed or permanently ceased, but in no case more than 14 days after cessation of activity. Where construction activity will resume on a portion of the site within 21 days from when activities ceased (e.g. the total time period that construction activity is temporarily ceased is less than 21 days), then stabilization measures do not have to be initiated on that portion of the site by the 14th day by Ds3 or Ds1. As a minimum, the contractor will complete grassing and/or mulching weekly or as needed to maintain stability of all disturbed soil. When conditions warrant, the Engineer may require more frequent intervals for this work. It is extremely important to get a cover, whether it is mulch, temporary grass or permanent grass. Adequate cover is a must.

d. Sediment Barrier (Sd1). Sd1 is a temporary structure made of silt fence supported by steel or wood posts, sandbags, straw bales, or other filtering material. Sd1 is designed to slow the velocity of runoff, cause sediment deposition at the fence and filter sediment from the runoff. Sd1 fabric will deteriorate. Therefore, it will need to be replaced at the time of the volume of silt deposited and the amount of rainfall. Silt will be removed from against the fabric when the volume meets or exceeds one-half of the height of the fence. Sediment barriers will be established prior to any clearing, grubbing, or excavation.

e. Inlet Sediment Trap (Sd2). A temporary protective device formed around a storm drain drop inlet to trap sediment. Sediment trap on this site will either be constructed with filter fabric and supporting frame (Sd2-F) or for curb inlet protection (Sd2-F). Also used on this site are excavated sediment traps which provide for additional sediment storage by excavating around the trap to a minimum depth of 1.5 feet. Sediment storage capacity is calculated at the rate of 0.7 cubic yards per acre of drainage area. Sediment traps will be installed early in the clearing and grubbing phase and will be removed when construction is completed.

f. Storm Drain Outlet Protection (St). A paved or riprapped channel placed primarily at the outlet of storm drains to reduce the velocity of storm water, reduce erosion and of the receiving channel, and stabilize grades. It can be applied to the outlet of a storm drain to assist in stabilization of slopes. St will be installed, as used as practical, after installation of storm drains.

3. WASTE DISPOSAL:

a. Waste Materials: No waste materials shall be discharged into waters of the State, except as authorized by a section 404 permit. The Contractor will provide for collection, storage, and removal of construction waste and/or debris from the site to an appropriate land fill site authorized to handle such waste or debris. No waste or debris will be buried on site. Notice of waste disposal practices will be posted at the Contractor's building.

b. No soil shall be stockpiled on site. Excess top soil, excavated material, strippings or unsuitable material shall be removed from the site and disposed of at a permitted site in compliance with erosion sedimentation regulations.

c. Sanitary Waste: All sanitary waste material shall be collected from the portable units a minimum of one time a week or as required by local or state regulations.

d. Non-Storm Water Discharges: It is expected that the following non-storm water discharges will occur during construction: (1) Water from waterline and hydrant flushing; (2) Pavement wash waters (where no spills or leaks of toxic or hazardous materials have occurred); (3) Uncontaminated ground water from dewatering excavations. All non-storm water discharges will be directed to sediment traps prior to discharge.

e. Concrete and Asphalt Trucks: Concrete trucks shall not be allowed to wash out or discharge surplus concrete or conduct drum wash water onsite. The Contractor will designate such an area away from drainage ditches, ponds, streams, and/or wetlands for temporary storage of other types of cured concrete to be disposed of. Cured surplus concrete will be treated as waste material and removed from the site. Asphalt trucks will not be permitted to be cleaned on the site.

4. INVENTORY FOR POLLUTION PREVENTION: The following list of materials or substances are expected to be present onsite: Concrete, detergents, asphalt, fertilizers, petroleum-based products, cleaning solvents, other bituminous products.

5. SPILL PREVENTION - MATERIAL MANAGEMENT PRACTICES: The following are the material management practices which shall be used to reduce the risk of spills or other accidental exposure of materials and substances to storm water runoff:

- Good Housekeeping: The following practices shall be followed:
 - Store only enough materials to do the job.
 - Store all materials in their original containers (with the manufacturer's original label) in an orderly manner and, if possible, under an enclosure.
 - Do not mix substances with each other unless recommended by the manufacturer.
 - When possible, the entire contents of a product shall be used before disposal of the container.
 - Follow manufacturer's recommendations for proper use and disposal.
 - Contractor's job superintendent shall inspect daily to ensure proper use, storage and disposal.
 - Pollutants or potentially hazardous materials, such as fuels, lubricants, lead paint, chemicals or batteries, shall be transported, stored and utilized in manner to prevent leakage or spillage into the environment.
- As much as possible, construction equipment will be such staged (parked) overnight in a common parking area and away from drainage ditches, ponds, streams, and/or wetlands.

b. Product Specific Practices:

- Petroleum Products - All onsite vehicles shall be monitored for leaks and receive regular preventative maintenance to reduce the chance of leaking. Petroleum products shall be stored in tightly sealed containers which are correctly labeled. Asphalt substrates shall be applied in strict accordance with the manufacturer's recommendations.
- Fertilizers - Fertilizers shall be applied only in the minimum amounts specified by the manufacturer. Once applied, work fertilizer into the soil to limit exposure to storm water. Store fertilizer in a covered shed and transfer contents of partially used bags into a sealable plastic bin.
- Paints - All containers shall be tightly sealed and stored when not required for use. Excess paint will not be discharged into the storm drainage system. Disposal of surplus paint materials shall conform to local, state and manufacturer's recommended methods.

EROSION, SEDIMENTATION AND POLLUTION CONTROL CERTIFICATION:

"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 and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) 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."

"I further certify under penalty of law that these plans were prepared after a site visit to the locations described herein by myself or my authorized agent, under my direct supervision. In addition, I certify that, after notification by the primary permittee, I will visit the site within 7 days after the commencement of construction to determine if BMP's have been installed and are being maintained as designed."

CHARLES F. HARDIN, JR., P.E. - CERT. # 22354

"I certify under penalty of law that this document and all attachments were prepared under my direction and 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 not providing this certification in lieu of performing the duties of a professional engineer. I am not providing this certification in lieu of performing the duties of a professional engineer, including the possibility of fine and imprisonment for knowing violations."

PRIMARY PERMITTEE

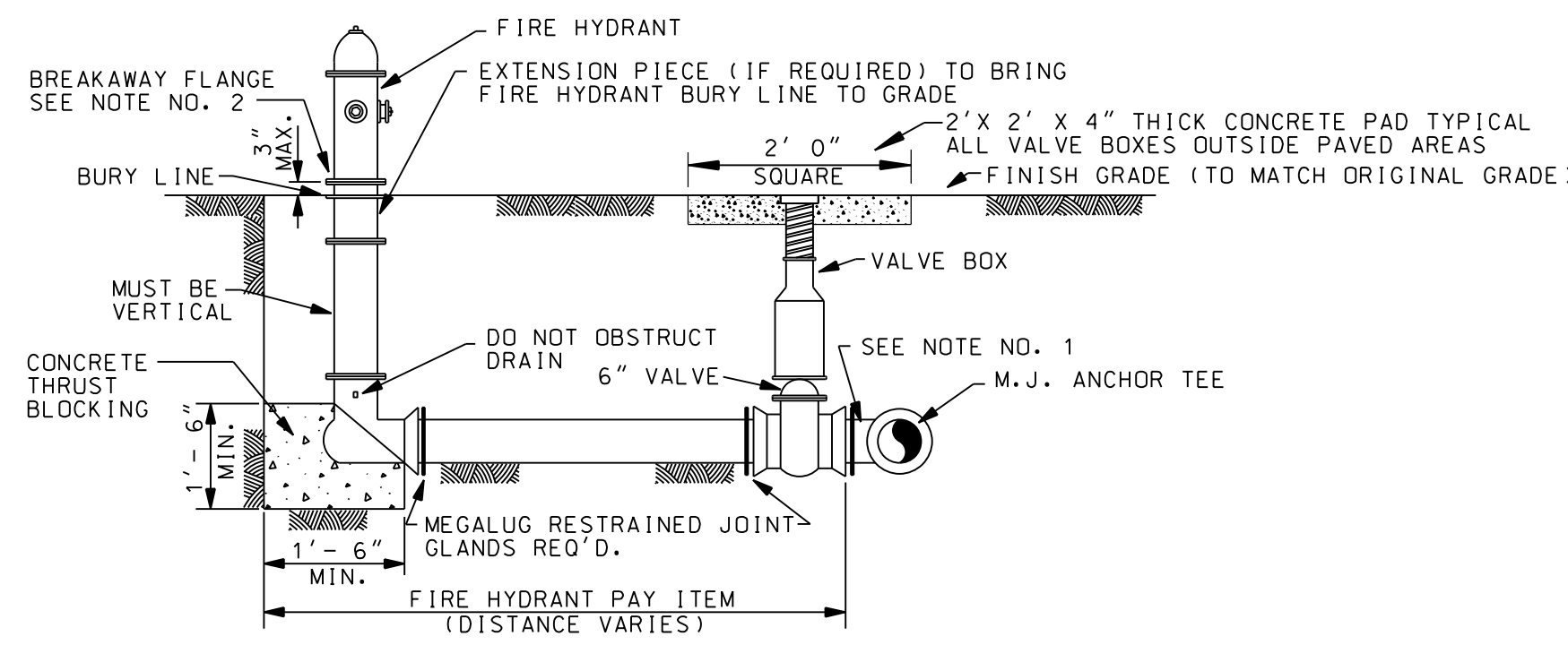
Georgia Environmental Protection Division
Mountain District Office
P.O. Box 3250
Cartersville, Georgia 30120

6. SPILL CONTROL PRACTICES: In addition to the above practices, the following practices shall be employed for spill prevention and cleanup:

- Manufacturer's recommended methods for spill cleanup will be clearly posted and personnel made aware of the procedures and the location of the information and cleanup supplies.
- Material and equipment for spill cleanup, including, but not limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic and metal trash containers shall be kept in the onsite material storage area.
- Any and all leaks or spills of petroleum products will be the responsibility of the Contractor to contain, control, and remediate in accordance with all local, state and federal guidelines, ordinances, and laws.
- The spill area shall be kept well ventilated, and personnel shall wear appropriate protective clothing.
- Spills of toxic or hazardous materials shall be reported to the appropriate state or local government agency, regardless of size.
- The spill prevention plan will be adjusted to include measures to avoid the same type of spill from recurring.
- Place catch pans under trucks observed to be leaking oil or other fluids.
- Provide a dumpster or other containment system to store fuel storage tanks.
- Collect and store soil contaminated with petroleum products or other hazardous materials in metal drums for disposal at a legal hazardous waste disposal site.
- Contractor's job superintendent shall be the spill prevention and cleanup coordinator. He will designate, and provide training for additional onsite personnel who will each be responsible for a particular phase of prevention and cleanup. Names of designated spill prevention and cleanup personnel will be posted in the material storage area and in the Contractor's onsite office.
- No washdown of concrete tools, concrete mixer chutes or concrete trucks shall be conducted on-site.

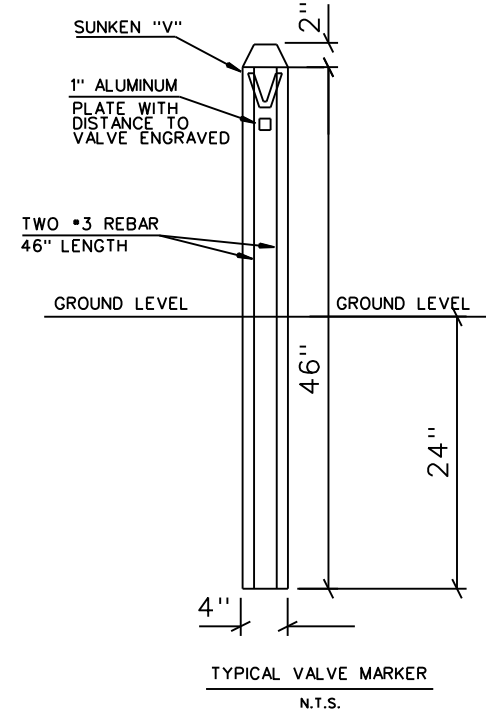
7. MONITORING REQUIREMENTS:

a. The NPDES General Storm Water Permit requires that the monitoring program provide for inspecting, sampling, and reporting about the runoff conditions associated with the land-disturbing activities connected with the project. The primary permittee has the responsibility of completing and implementing the Erosion, Sedimentation and Pollution Control Plan (ESPCP) for the construction. This includes all storm water sampling and site inspections, as described below. Secondary permittee's will be required to provide site inspections of their activities, in accordance with the Erosion, Sedimentation and Pollution Control Plan (ESPCP) for the construction. This includes all storm water sampling and site inspections, as described below. Secondary permittee's will be required to provide site inspections of their activities, in accordance with the Erosion, Sedimentation and Pollution Control Plan (ESPCP) for the construction. 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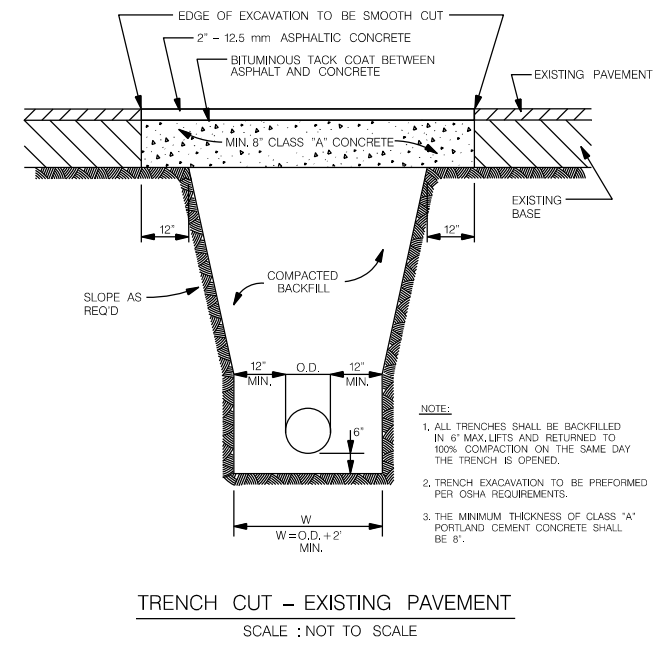


FIRE HYDRANT SETTING DETAIL
NOT TO SCALE

- NOTES**
- APPROVED ANCHOR TEES SHALL BE USED WITH THE FIRE HYDRANTS.
 - ANY FIRE HYDRANT WITH THE BREAKAWAY FLANGE SET GREATER THAN 3 INCHES ABOVE OR BELOW THE FINISH GRADE LINE WILL NOT BE APPROVED FOR PAYMENT.
 - ALL MECHANICAL JOINTS ON FITTINGS, VALVES AND FIRE HYDRANTS ARE TO BE FITTED WITH MEGALUG RESTRAINED JOINT GLANDS.
 - FIELD LOK GASKETS BY U.S. PIPE OR EQUAL SHALL BE USED ON ALL PUSH-ON JOINTS (EXCEPT PLUGGED ENDS) WITHIN 50 FEET OF A MECHANICAL JOINT RESTRAINED GLAND (MEGALUG RESTRAINED JOINT).
 - THRUST BLOCKING REQUIRED IN ACCORDANCE WITH SECTION 7.2.0(c) OF THE MINIMUM STANDARDS FOR PUBLIC WATER SYSTEMS.

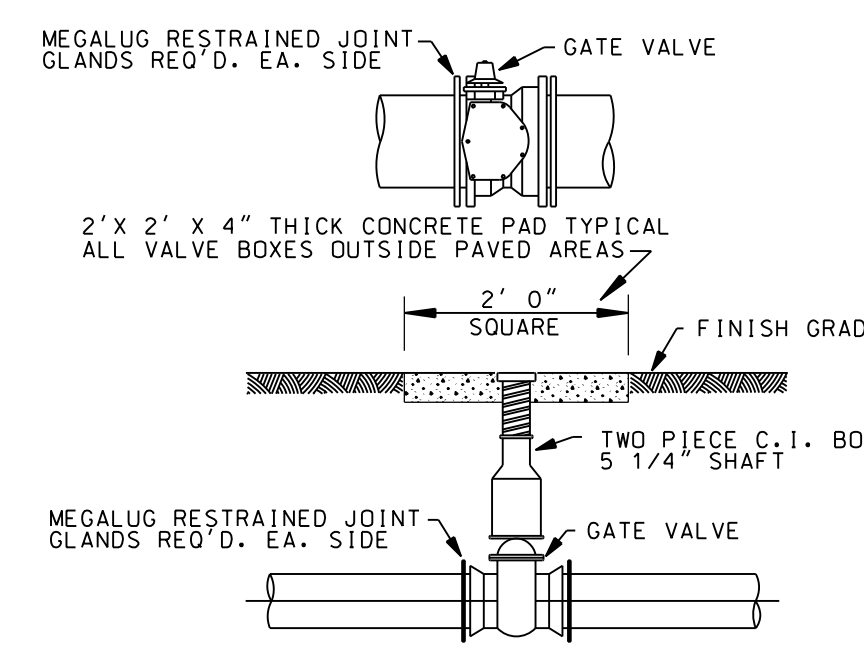


TYPICAL VALVE MARKER
N.T.S.



TRENCH CUT - EXISTING PAVEMENT
SCALE: NOT TO SCALE

NOTE: TYPICAL CONTROL OF SPILLAGE IN THE ROAD CURVE ENDS OF THE ROAD OR OTHER ROAD CONTROL SHOULD BE THE RESPONSIBILITY OF ALL CONTRACTORS. ALL ROAD ENDS SHOULD BE PROTECTED BY THE CONTRACTOR. ALL ROAD ENDS SHOULD BE MARKED AT ALL TIMES THROUGHOUT APPROVAL.

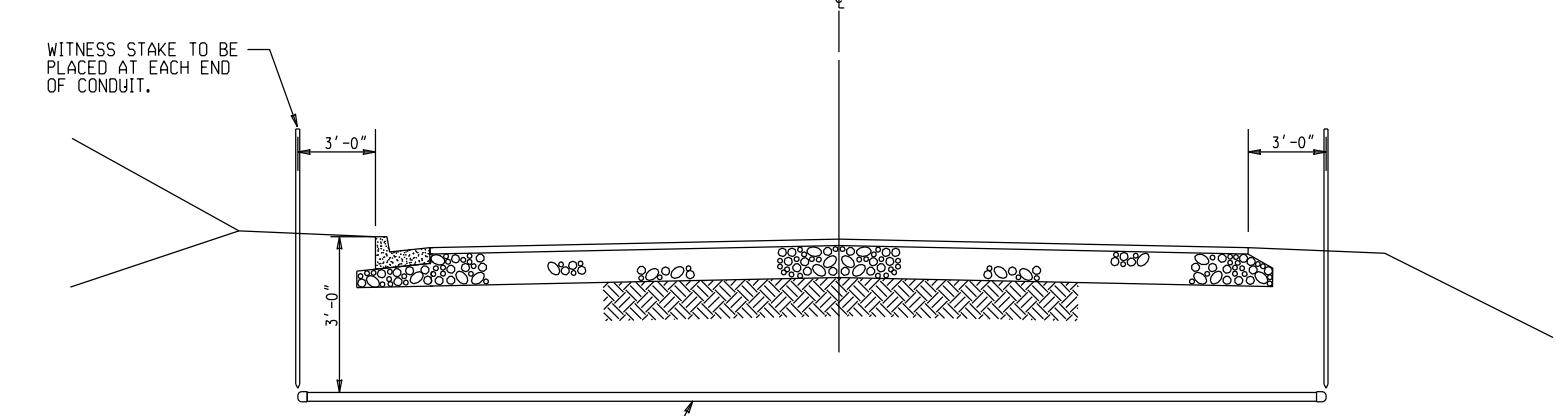


VALVE AND VALVE BOX
NOT TO SCALE

TYPE OF TEST TO BE PERFORMED	MINIMUM NUMBER OF TESTS	TESTING STANDARDS
SUB-GRADE COMPACTION	EACH 500 LINEAR FEET OF ROADWAY	95% MAX. DENSITY ASTM D-1557 FIELD TESTS ASTM D-1556 F-2922 AND D-2167
BASE COMPACTION	EACH 500 LINEAR FEET OF ROADWAY	100% MAX. DENSITY ASTM D-1557 FIELD TESTS ASTM D-1556 F-2922 AND D-2167
ASPHALT DENSITY	EACH 1000 LINEAR FEET OF ROADWAY	92% LABORATORY DENSITY
ASPHALT THICKNESS	EACH 500 LINEAR FEET OF ROADWAY	DEFICIENT IN THICKNESS NOT MORE THAN 1/4"

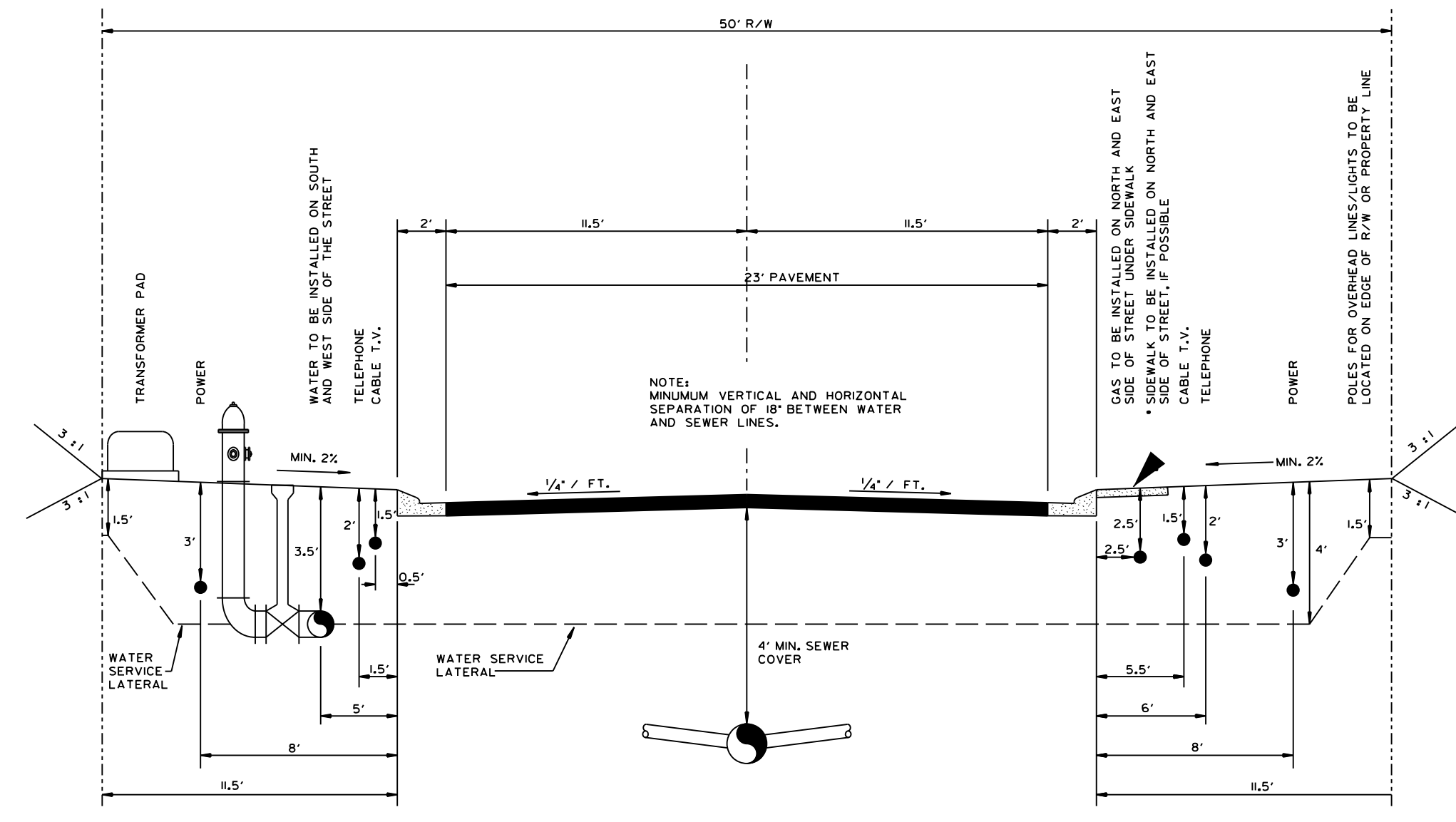
ROADWAY TESTING REQUIREMENTS

CONTRACTOR TO CONTACT FLOYD COUNTY ENGINEERING DEPT. FOR INSPECTIONS OF SUB-GRADE, BASE AND CURB & GUTTER INCLUDING PROOF-ROLLING OF THE SUB-GRADE AND BASE. INSPECTIONS AND TESTS WILL BE DONE AT THE CONTRACTOR'S EXPENSE.



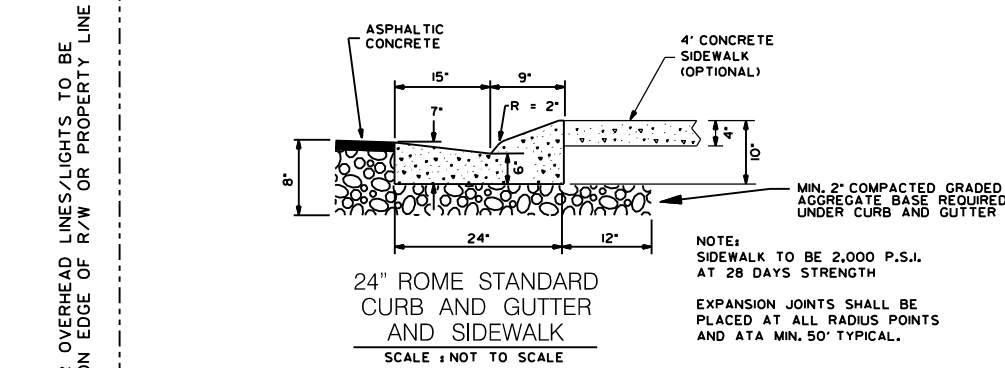
UTILITY CROSSING CONDUIT DETAIL
SCALE: NOT TO SCALE

- ALL CONDUIT MUST BE INSTALLED PRIOR TO PLACEMENT OF GRADED AGGREGATE BASE FOR ROADWAY AND CURB.
- DETECTABLE MYLAR ENCASED ALUMINUM FOIL MARKING TAPE SHALL BE PLACED OVER THE PVC CONDUIT. THIS TAPE SHALL BE LABELED TO NOTE THE UTILITY WITHIN.
- ALL UTILITY PITS MUST BE LOCATED A MINIMUM OF 3' BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.
- DO NOT LEAVE UTILITY PITS OPEN OVER NIGHT OR DURING RAINY PERIODS.



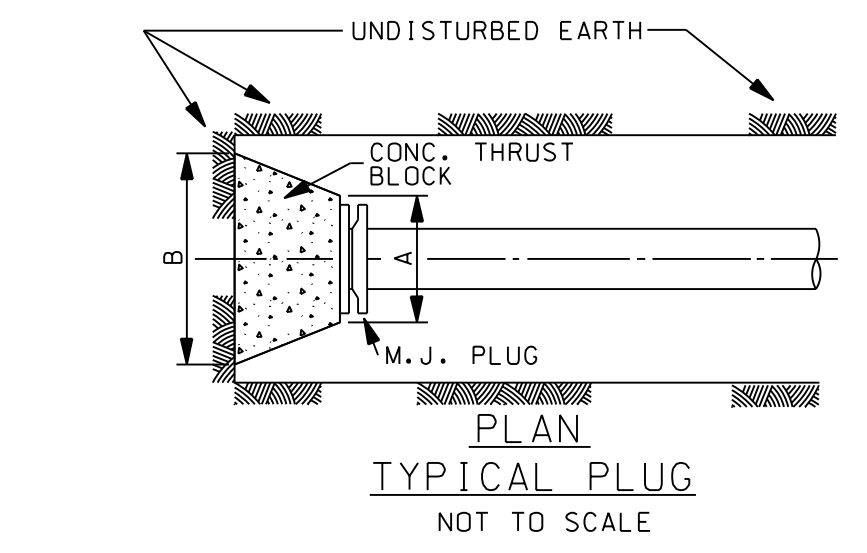
TYPICAL ROAD SECTION AND STANDARD DETAIL FOR UTILITY PLACEMENT
SCALE: NOT TO SCALE

- NOTES**
- THE STANDARD FOR UTILITY PLACEMENT IS CONSIDERED THE DESIRED APPROXIMATE LOCATION FOR THE UTILITIES, FIELD CONDITIONS AND OTHER CONSIDERATIONS MAY REQUIRE MODIFICATIONS OF THESE APPROXIMATE LOCATIONS. PRIOR TO ANY EXCAVATION FOR UTILITIES OR REPAIRS, OR OTHER NECESSARY EXCAVATION, IT IS RECOMMENDED THAT THE CONTRACTOR FIRST CALL "IF YOU DIG GEORGIA" CALL US FIRST! 1-800-282-7411, 325-5000 (METRO ATLANTA ONLY).
 - 4" WIDE, 4" THICK CONCRETE SIDEWALK TO BE INSTALLED AS SHOWN ABOVE.

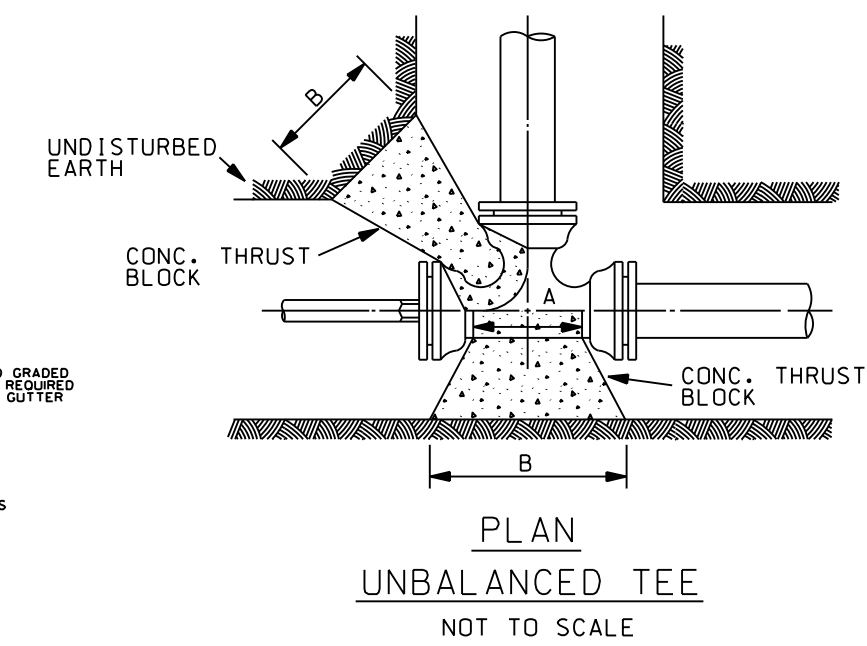


PAVEMENT DETAIL
SCALE: NOT TO SCALE

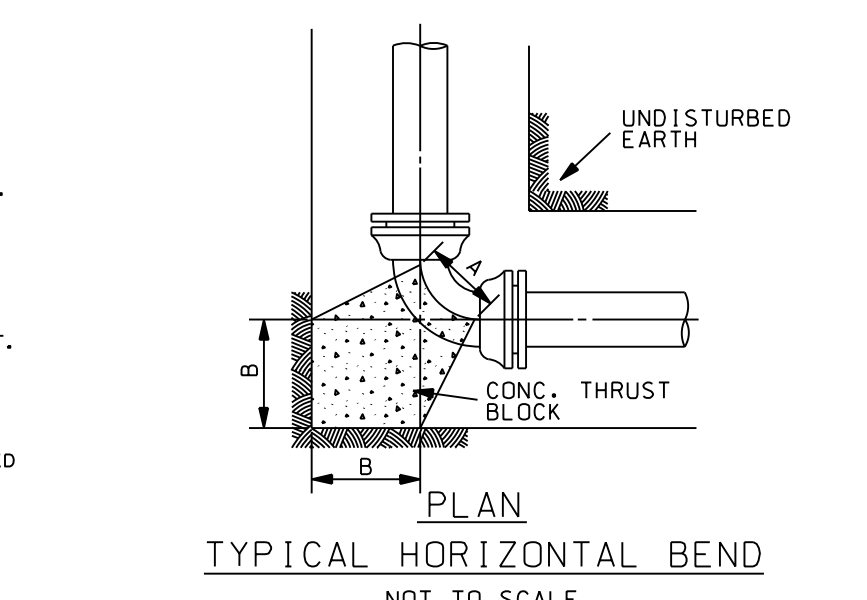
- 2" 12.5 MM SUPERPAVE ASPHALTIC CONCRETE
- BITUMINOUS PRIME AT 0.25 GAL. / S.Y.
- 6" MIN. OF COMPACTED GRADED AGGREGATED BASE PER G.D.O.T. SPECIFICATIONS
- STABILIZED COMPACTED SUB-BASE.



TYPICAL PLUG
NOT TO SCALE



TYPICAL HORIZONTAL BEND
NOT TO SCALE



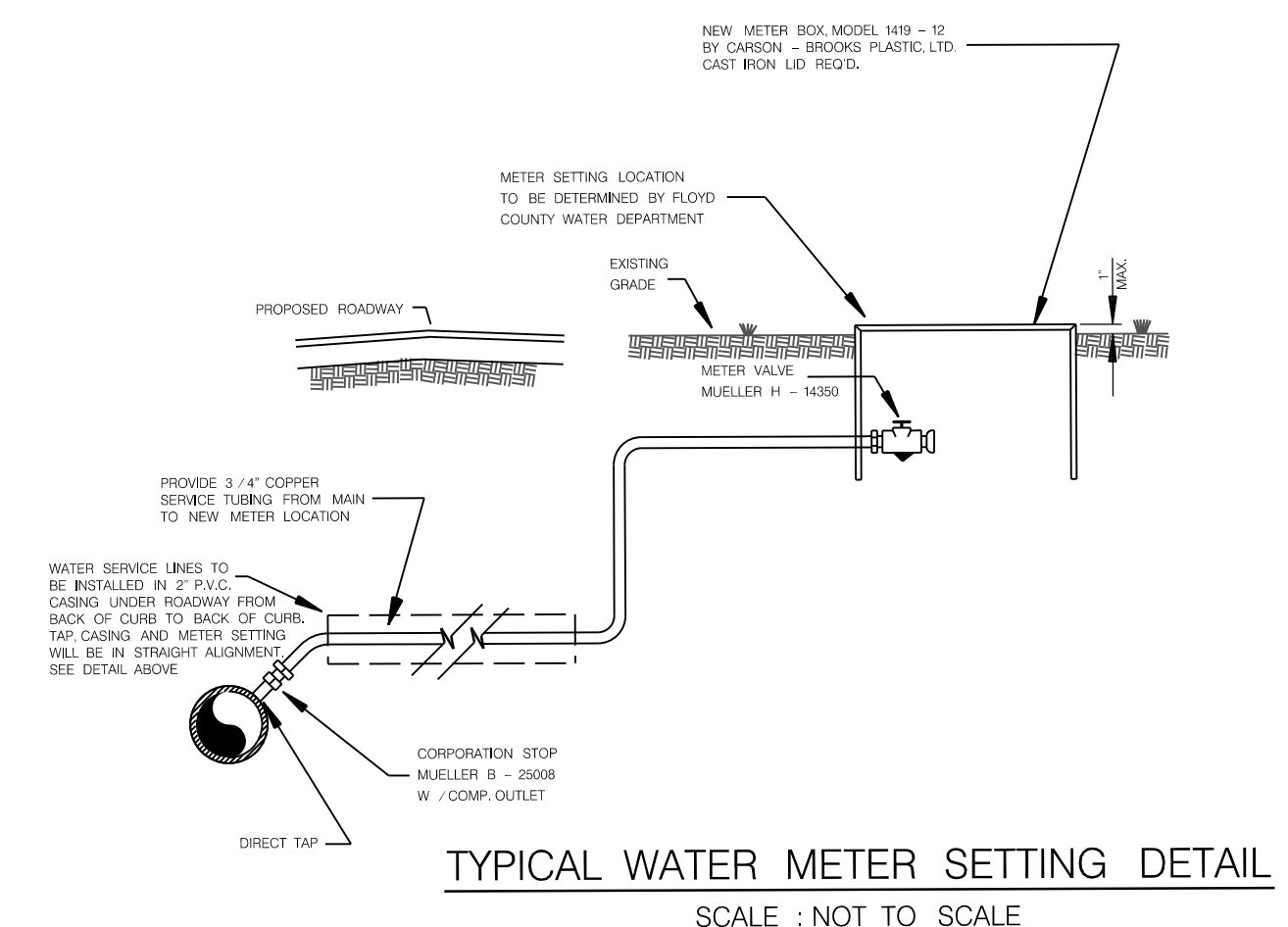
TYPICAL VERTICAL BEND
NOT TO SCALE

PLAN TYPICAL TEE
NOT TO SCALE

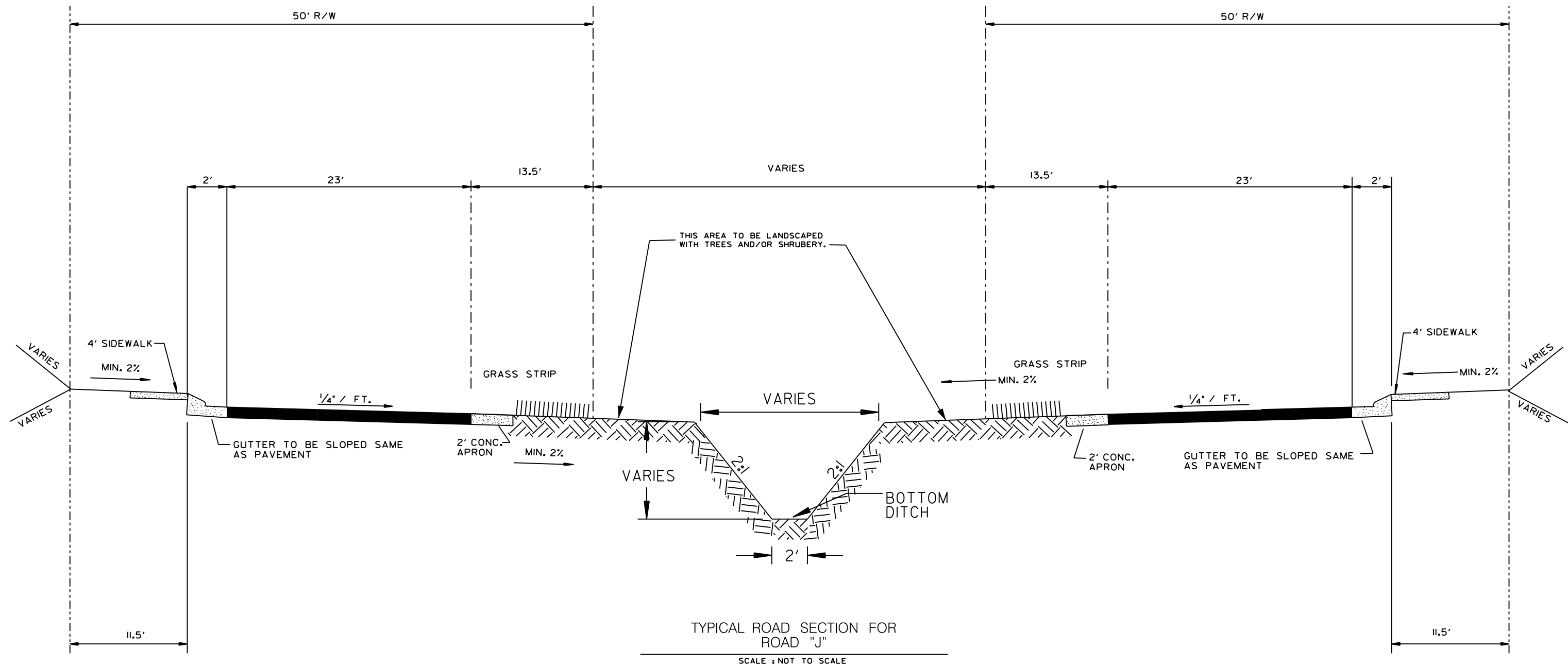
CONCRETE BLOCKING DETAILS
(IF REQUIRED AND AUTHORIZED)

PIPE SIZE	A	B	DEPTH C
90° BEND			
16"	1'-9"	3'-4"	3'-6"
12"	1'-6"	2'-0"	3'-0"
8"	1'-0"	1'-6"	2'-0"
6"	1'-0"	1'-0"	2'-0"
45° BEND			
16"	1'-0"	4'-3"	1'-6"
12"	1'-0"	3'-4"	1'-0"
8"	0'-9"	1'-6"	1'-0"
6"	0'-9"	1'-0"	1'-0"
22 1/2° BEND			
16"	1'-0"	2'-4"	1'-4"
12"	1'-0"	1'-9"	1'-0"
8"	0'-9"	1'-0"	0'-8"
6"	0'-9"	1'-0"	0'-6"
11 1/4° BEND			
16"	1'-0"	1'-2"	1'-4"
12"	1'-0"	1'-0"	1'-0"
8"	0'-9"	1'-0"	0'-8"
6"	0'-9"	1'-0"	0'-6"
UNBALANCED TEE & PLUG			
16"	2'-0"	5'-6"	3'-0"
12"	2'-0"	4'-6"	2'-0"
8"	1'-0"	2'-9"	1'-6"
6"	1'-0"	1'-0"	1'-0"
TEE			
16"	2'-6"	5'-6"	3'-0"
12"	2'-0"	4'-6"	2'-0"
8"	1'-6"	2'-9"	1'-6"
6"	1'-0"	1'-0"	1'-0"

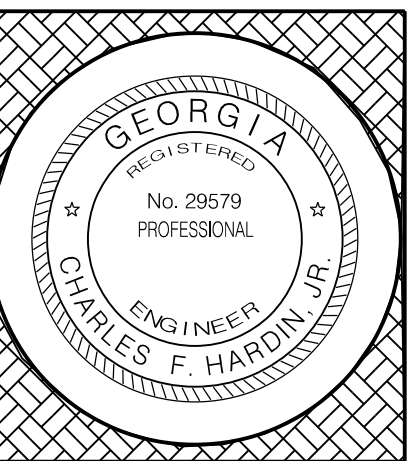
NOTE:
ALL LOTS ARE TO HAVE COMPLETE INDIVIDUAL SERVICES AND LOCATED MIN. 5 FEET FROM PROPERTY LINE. (NO TEE / WYED SERVICES WILL BE ACCEPTED.)



TYPICAL WATER METER SETTING DETAIL
SCALE: NOT TO SCALE



NOTES:
FOR UTILITY PLACEMENT SEE TYPICAL ROAD SECTION AND STANDARD DETAIL FOR UTILITY PLACEMENT. ANY ALTERATION TO UTILITY LOCATIONS TO BE COORDINATED WITH UTILITY OWNERS.



NOTE: CONTRACTOR TO CONTACT UTILITIES PROTECTION CENTER PRIOR TO ANY EXCAVATION.
IF YOU DIG GEORGIA... CALL US FIRST! 1-800-282-7411 325-5000 (METRO ATLANTA ONLY) UTILITIES PROTECTION CENTER IT'S THE LAW

North Quarters Subdivision

PHASES 3 & 4

NO.	REVISION FOR	DATE

MISCELLANEOUS DETAILS

DESIGNED BY: PO
APPROVED BY: CH
DATE: 4-13-2017
DRAWING NO.: E-131F-C-14