

# CONSTRUCTION PLANS FOR **DALE RIDGE** DAVID WILEMAN



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ragansmith.com

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LOCATION MAP  
SCALE

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15TH CIVIL DISTRICT, TOWN OF  
LIBERTY, DEKALB COUNTY,  
TENNESSEE

**DALE RIDGE**  
FOR  
**DAVID WILEMAN**

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: NOT TO SCALE

Date: 2021.12.10

Approved By: JFV

Revisions:

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Drawing Title:  
COVER

Drawing No.  
**C0.0**

Project No.  
21-0164



## RSA STANDARD NOTES

### GENERAL NOTES

- The contractor shall give all necessary notices and obtain all permits, and pay all legal fees and construction testing fees associated with the project. He shall also comply with all city, county and state building laws, ordinances or regulations relating to building sidewalks, streets, water mains, sewers, blasting, etc.
- The contractor shall be responsible for and shall bear all expenses for the field staking of the site layout necessary for the proper execution of the work. The contractor will be held responsible for the damage or loss of any reference points, monuments, hubs and lot corners staked by others during the construction of his work and shall bear the cost of replacing same.
- The contractor is to check and verify all measurements, levels, etc., before ordering materials and proceeding with the work, and is to be responsible for the same.
- The contractor must understand that the work is entirely at his risk until same is accepted and he will be held responsible for its safety by the owner.
- The contractor shall be responsible for any damage done to the premises or adjacent premises, or injuries to the public during the construction of the work, caused by himself, his subcontractors or the carelessness of any of his employees. Nothing in the general notes shall relieve the contractor from his responsibilities toward the safety and convenience of the general public and the residents along the proposed construction area.
- The contractor shall provide all necessary temporary works such as bracing, sheeting and shoring, blasting protection, warning lights and barricades, etc. as may be necessary for the protection of life and property for his own employees and the general public. The contractor shall comply with all applicable safety statutes and rules requiring certain protective personal apparel such as hard hats, ear plugs, eye shields, protective shoes, etc. The owner and engineer assume no responsibility or liability for actions taken by the contractor endangering life or property.
- The location of existing piping and underground utilities, such as water and gas lines, electrical, fiber optic and telephone conduits, etc., as shown on the plans have been determined from the best available information by actual surveys, or taken from the records and drawings of the existing utilities. The owner and engineer do not assume responsibility for the possibility that, during construction, utilities other than those shown may be encountered or that actual location of those shown may be different from the locations designated on the contract drawings. In areas where it is necessary that exact locations be known of underground utilities, the contractor shall, at his own expense, furnish all labor and tools to either verify and substantiate or definitely establish the position of underground utilities.
- The contractor shall exercise extreme caution for any activity that will place equipment or personnel within contact range of overhead or underground electrical or gas transmission lines. Any such activity within a noted utility easement or the proximity of electrical or gas line utilities should be coordinated with the proper utility before commencing with any work. It is incumbent upon the contractor to become familiar with the site and to verify to his satisfaction the location, nature and extent of all overhead and underground utilities that will be impacted by the construction efforts required for this project. The contractor shall install all necessary warning or safety signage, barricades, or notices, etc. to insure the safety of his employees and the general public in the project area.
- In Tennessee, it is a requirement by law, per "the underground utility damage prevention act", that anyone who engages in excavation must notify all known underground utility owners, no less than three (3) nor more than ten (10) working days prior to the date, of their intent to excavate and also to avoid any possible hazard or conflict. Notification by calling the Tennessee one call system, inc. at 1-800-351-1111 is required.
- Portions of the work shown on these plans may require trench and/or mass excavation. In some cases, this will require the removal of rock. In the use of explosives for the subsequent excavation of rock material, all applicable local and state requirements regarding the use and storage of explosive material will be followed. The proper permits will be secured and pre-blast surveys will be conducted in areas where adjacent properties or improvements off of the project property could be impacted. In portions of the project where trench excavation is required, the contractor will become familiar with all applicable trench safety requirements and regulations and take the necessary measures to insure the safety of his employees and any other individuals having a need to be in and around the work.
- If, during construction of this project, a question of intent or clarity arises from the construction plans, the contractor will immediately bring the matter to the attention of the civil engineer for resolution before the affected work items are initiated or pursued further.
- It shall be the contractor's responsibility to notify any affected offsite property owner two weeks prior to construction on said offsite property. This notification is required even with construction being confined within existing easement(s). Access to all private properties shall be provided and maintained at all times during the construction of the project.
- Care shall be taken to protect any utilities, trees, buildings, etc. which are to remain and not to be disturbed by the construction.
- The contractor's authorized field representative shall notify the Town of Liberty, Dekalb County prior to commencing any work on the public row.
- The site development portion of this project will be subject to the inspection and final approval of the appropriate public works department, water department/district, sewer department/district, and possibly the planning commission.

### GRADING, DRAINAGE & ROADWAY NOTES:

- The existing contours shown are from (----show source and date if known)). Contour interval is (\_\_\_\_) feet.
- All grading, public roadway construction and drainage appurtenances to be built and installed as per the specifications of the Town of Liberty, Dekalb County. Before any surface treatment is put down, subgrade must be proofrolled and accepted by the Town of Liberty, Dekalb County
- Topsoil stripped from the areas to be graded will be stockpiled on site as directed by the owner and engineer and shall later be used in final dressing and seedbed preparation. Said stockpiles will be located so as not to interfere with activities of other portions of the work on the project. All material shall be stockpiled in upland (non-wetland) areas and above ordinary high water of any adjacent watercourse.
- The contractor will place and store in stockpiles construction material, including but not limited to crushed stone, topsoil, excavated work and/or rock, in such a way as not to impose a potential for slides or movement of the material that would cause injury or death to the contractor's employees or any other individual that might be on the project site. This would include but not necessarily be limited to the securing of stockpile materials by fencing or other means to preclude unwarranted visitors or trespassers on the project site. Stockpiled materials shall not impair necessary sight distances for public roadways, driveways, construction entrances, etc.
- The placing and spreading of any fill material is to be started at the lowest point and brought up in horizontal layers of 8 inch thickness. Said fill material is to be soil and rock only, free of sod, roots, frozen soils or any other decomposable material. The relative compaction of each layer shall not be less than 95% of the standard proctor maximum dry density (ASTM d-698). More stringent compaction measures may be required in structural areas (e.g. building pads, paved areas, etc.), therefore refer to geotechnical report and/or appropriate governing body specifications.
- Any surplus excavation shall be removed from the site as directed by the owner and/or civil engineer.
- The stockpiling or storage of trees, vegetation and other deleterious matter or materials deemed "unsuitable" by the soils and civil engineers shall not be allowed on site. Said materials shall be properly disposed of off the properties, the cost and responsibility of which shall be the contractor's. Site for the disposal of said materials shall first be approved by the civil engineer.
- Finished profile grade is shown on plans and centerline cut stake will be centerline finished grade.
- The contractor shall offset all centerline stakes before beginning the clearing and grading operation and set all necessary stakes for the proper execution of the work.
- All roadway sections to be built as per the typical section as shown within these plans.
- All exposed pipe culvert ends will have headwalls as per the appropriate governing body. All exposed pipe culvert ends will be stabilized with energy dissipation measures as per requirements of appropriate governing body.
- Arrows in street area indicate direction of flow of surface drainage.
- All roadway construction and drainage structures to be per the current requirements and specifications of the appropriate governing body.
- T.C. EL. refers to top of grate of casting, for curb inlets, the T.C. EL. is defined as the elevation at the center point of the grate at the curb face. For other drainage structures, the T.C. EL. is defined as the elevation at the center of the structure. Offset distances are measured from the roadway centerline to the T.C. EL. point. Drainage structure casting shall be dry set when built and mortar set later when adjusted to grade of final surface treatment.
- All drainage computations are based on a ((\_\_\_\_))-year storm frequency; location specific runoff coefficient; area in acres; and the rational formula of q=cia.
- All storm drainage castings to be John Bouchard & Sons Co. or approved equal, unless otherwise noted.
- All storm drainage pipes to be rcp, class iii, unless otherwise noted.
- Installation of pipe material shall be placed with a screen stone envelope and when under pavement entire trench to be backfilled with screen stone to subgrade. Size of stone, envelopes, and trenches to be specified by municipalities for public lines and private lines to adhere to common practices for installation requirements.
- Unless specified otherwise, all pad graded lots shall be prepared to provide a twenty four inch (24") layer beneath the pad grade free from mass rock and large boulders to allow for the installation of utility services and building foundations without the need for blasting and/or rock removal. Rock should be 6" or less in diameter below finished pad elevation for the 24" described above.

### MAINTENANCE/INSPECTION PROCEDURES

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS.

- All control measures will be inspected twice each week, 72 hours apart, and immediately after a rain event of 0.25 inches or greater.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report.
- Built up sediment will be removed from silt fence when it has reached one third the height of the fence.
- Silt fence will be inspected for depth of sediment, tears, to see if the fabric is securely attached to the fence posts, and to see that the fence posts are firmly in the ground.
- The sediment traps will be inspected for depth of sediment, and built up sediment will be removed when it reaches 10 percent of the design capacity or at the end of the job.
- Temporary and permanent seeding and planting will be inspected for bare spots, washouts, and healthy growth.
- A maintenance inspection report will be made after each inspection, a copy of the report form to be completed by the inspector is included in the storm water pollution prevention plan (SWPPP).
- The site superintendent, will select three individuals who will be responsible for inspections, maintenance and repair activities, and filling out the inspection and maintenance report.

### MAINTENANCE/INSPECTION PROCEDURES-CONT.

- Those selected for inspection and maintenance responsibilities will receive training from qualified personnel. They will be trained in all the inspection and maintenance practices necessary for keeping the erosion and sediment controls used on-site in good working order.
- Unprotected soils shall be stabilized when construction activity temporarily ceases for more than 14 days.

### EROSION/SILTATION CONTROL NOTES:

- Areas and time of exposure of unprotected soils shall be kept to a minimum whenever possible.
- Keep dust within tolerable limits by sprinkling or other acceptable means.
- Use temporary vegetation and/or mulch to protect bare areas from erosion during construction.
- No other work will be initiated on the project until the erosion/ siltation measures shown on the plans and details are properly in place.
- Silt fence shown on plans is to be used as temporary sediment barriers. see detail for proper installation and maintenance.
- If, at any time during the construction phase of this project, the erosion/siltation measures installed fail to function properly, need maintenance or repair, or need new replacement in kind, the contractor will effect such actions as are needed to correct the situation at no additional cost to the owner.
- Disturbed areas are to be graded to drain as indicated on plan to sediment barriers during and upon completion of construction.
- All cut/fill areas to have a minimum of 6 inch depth topsoil cover. Prior to seeding, areas dressed with topsoil shall receive a 5-10-5 (nitrogen-phosphorus-potassium) starter fertilizer at a rate of 1/2 pound per 25 square feet. Rake fertilizer into top 2 to 4 inches of soil. Next, at a rate recommend by the manufacturer, seed with a turf-type tall fescue mix that is crop and weed free and a blend of 3-5 varieties (addressing both cold hardiness and drought tolerance) from top 10% selections in the NTEP Tall Fescue Trial, most recent evaluation year. Finally, add a straw mulch of 70%-80% coverage (approximately 125 pounds per 1000 square feet) unless otherwise noted on the plan. Roll a weighted roller over the planting site to ensure the seed has full contact with the soil.
- Upon stabilization of the project site with a good (acceptable) stand of grass and/or ground cover, the erosion/siltation installations will be removed and the area disturbed will be seeded and mulched with the same treatment as other new grassed areas of the project.
- Prior to the issuance of a grading permit, all erosion/siltation control measurements indicated on the plans shall be installed.
- Erosion control barriers (silt fence) shall be placed where indicated prior to clearing, grubbing, grading, and filling. erosion control barriers (silt fence) shall be adjusted and placed along newly established contours as a result of the fill operations.
- Inspection and maintenance of erosion control devices shall be performed on a regular basis.
- Erosion control devices must be in place and inspected by local governing body, prior to issuance of land disturbance permit.

### SANITARY SEWER NOTES

- The contractor's authorized field representative shall notify the appropriate utility department 48 hours prior to commencing any work on the proposed sanitary sewer line extensions.
- All materials and workmanship for sanitary sewer lines and appurtenances will be in strict compliance with the appropriate utility department/district specifications and details, latest edition.
- Any and all fees, licenses and permits necessary for this construction are to be obtained prior to the initiation of construction and the cost of same to be borne by the contractor.
- The sanitary sewer line work shall be approved by the appropriate utility department/district.
- No connection to the existing sanitary sewer system will be permitted until the new sanitary sewer work has been inspected and is approved by the appropriate utility department/district.
- Ten-foot minimum horizontal separation and 18" vertical separation to be maintained between water and sanitary sewer lines wherever possible.
- All sanitary sewer services will be tee or wye-connected to main line.
- Sanitary sewer services may be extended from manholes at the end of a sewer line only.
- For locations of 6-inch sanitary sewer service lines, see sanitary sewer plan and profile sheets.
- Sewer services to be installed a minimum of 1.0% to slope towards sewer main unless noted otherwise.
- Sanitary sewer services to be extended 1' beyond r.o.w., easement or sidewalk, whichever is the longest.
- Availability and cost of service should be confirmed with the appropriate utility department/district.
- All sanitary sewer mains shall be required to pass a low pressure air test.
- All manholes shall be vacuum tested as per appropriate utility department/district.
- Record drawings ("as built") may be required; see appropriate utility department/district's standard specifications.
- All manholes to have traffic bearing frames and covers unless noted otherwise on the plan/profile sheets.
- No trees shall be planted within a sanitary sewer line easement.

### WATER NOTES

- The contractor's authorized field representative shall notify the appropriate utility 48 hours prior to commencing any work on the proposed water line extensions.
- All materials and workmanship for water lines and appurtenances will be in strict compliance with the appropriate utility department/district specifications and details as on file with the Tennessee department of health and environment, division of water quality control. (WS98-0067).
- The owner/developer shall be responsible for the costs of reasonable inspection fees of the appropriate water department/district.
- Any and all fees (excluding inspection fees), licenses and permits necessary for this construction are to be obtained prior to the initiation of construction and the cost of same to be borne by the contractor.
- Before any water line work is initiated on this project, the appropriate water department/district should be contacted by the contractor and all requirements of that agency satisfied. Upon completion of water line installation, line disinfection and pressure testing will be done by the contractor under the inspection of the appropriate water department/district.
- The contractor shall verify locations of all existing utilities (including storm drainage pipes or structures) before commencement of construction.
- The water line work shall be approved by the appropriate utility department/district.
- No connection to the existing water system will be permitted until the new water work has been inspected and is approved by the appropriate utility department/district.
- Water line construction is to be completed except for actual connections to existing water line. at least 72 hours prior to connecting proposed water line to the system, the contractor will notify the appropriate water department/district, and coordinate method of connection and time to shut down existing water line, if required.
- Ten-foot minimum horizontal separation and 18" vertical separation to be maintained between water and sanitary sewer lines wherever possible.
- Availability and cost of service should be confirmed with the appropriate utility department/district.
- Record drawings ("as built") may be required; see appropriate utility department/district's standard specifications.
- No trees shall be planted within a water line easement.
- The owner/developer shall be responsible for the costs of reasonable inspection fees of the appropriate water department/district.
- Water line material shall be as specified by the appropriate water department/district.
- All bends, tees, crosses, plugs, pressure connections, etc., shall be backed up and anchored with concrete blocking.

### GEOTECHNICAL NOTE

- No geotechnical study has been conducted on this site. however, the design for the site improvements shown on this plan has relied on experience with similar projects and similar soil/site conditions. If, in the pursuit of this work by the contractor, conditions or circumstances are encountered that are different than reflected in these plans or that appear to impact the scope of the work, the contractor will immediately notify the civil engineer, and the owner/developer before any remedial course of action or design change is initiated. All parties (owner, civil engineer, proper governmental agencies, and contractor) must be in agreement and the magnitude of the cost/time required for the measures established.

## RSA SPECIAL NOTES

### PROJECT SPECIFIC NOTES

- Contractor to adjust exiting utility castings as necessary.
- Pavement dimensions shown are from edge of pavement to edge of pavement.
- This project will be subject to the inspection and final approval of the Town of Liberty, Dekalb County
- Driveways to be replaced with like materials to the tie down locations shown on plans. Any necessary paving of driveways will be done during paving operations on the main roadway.
- All pay items have been explicitly set forth as such in the proposal; all other items of cost are to be included in the price of the items actually bid upon.
- Before any clearing/grubbing work is initiated, the contractor and representatives of both developer and civil engineer will "walk-out" the "limit of clear line" and insure that it is clearly marked and visible.
- Specification for materials used in the upper 24 inches beneath pavement.....
- The contractor shall make available soils test reports taken during and after the grading operation to show that the compaction requirements have been met. The cost of this report shall be borne by the contractor.
- Riprap apron materials shall be .....



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DALE RIDGE  
FOR  
DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: NOT TO SCALE

Date: 2021.12.10

Approved By: JFV

Revisions:

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Drawing Title:

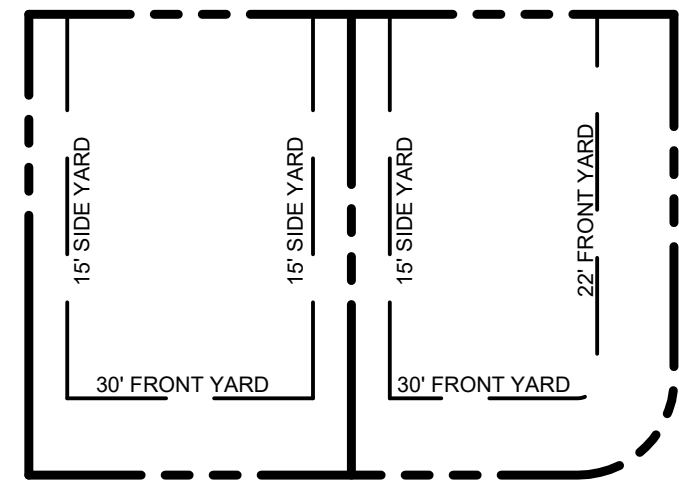
NOTES

Drawing No.

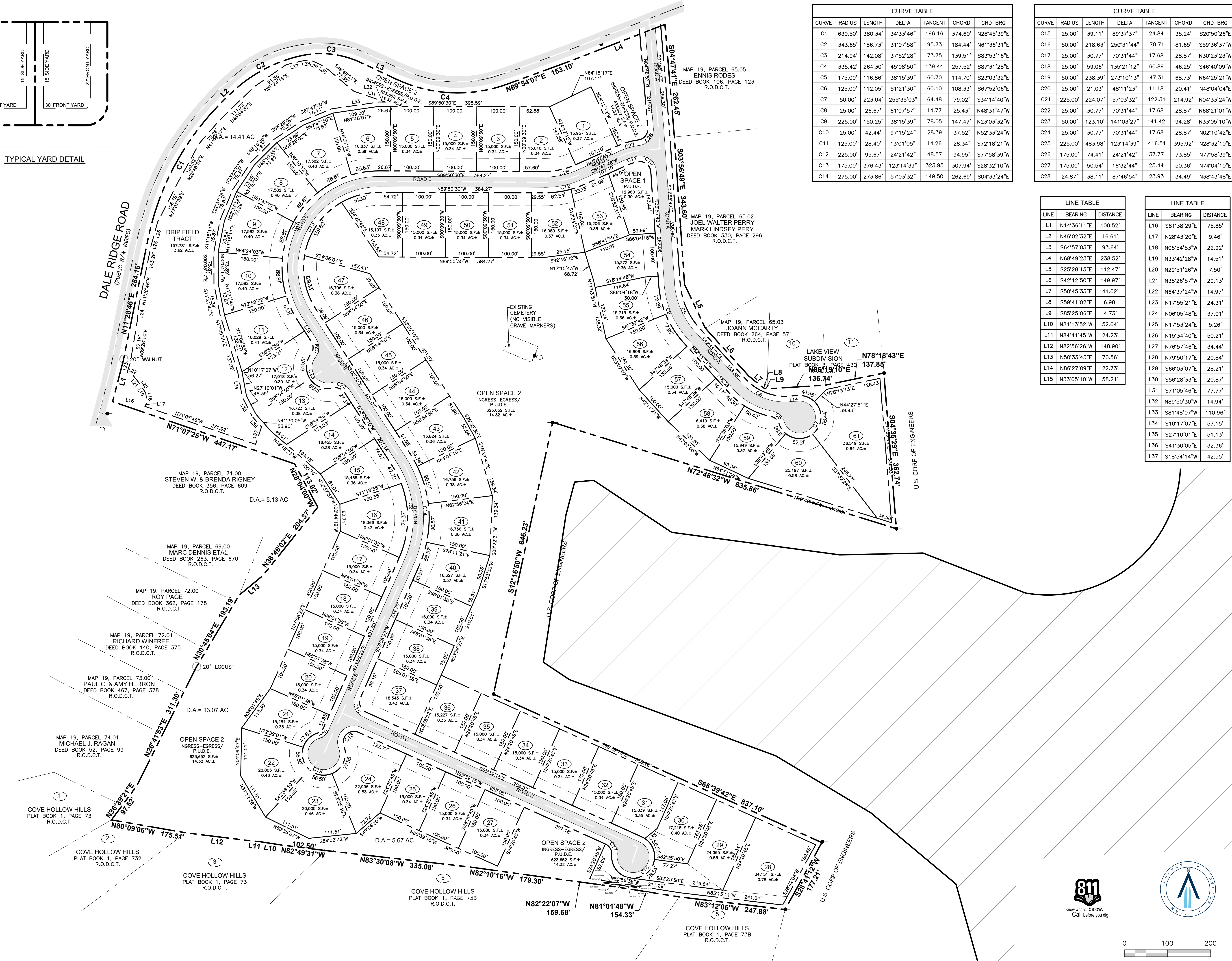
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Project No.

21-0164



TYPICAL YARD DETAIL



CURVE TABLE						
CURVE	RADIUS	LENGTH	DELTA	TANGENT	CHORD	CHD BRG
C1	630.50'	380.34'	34°33'46"	196.16	374.60'	N28°45'39"E
C2	343.65'	186.73'	31°07'58"	95.73	184.44'	N61°36'31"E
C3	214.94'	142.08'	37°52'28"	73.75	139.51'	S83°53'16"E
C4	335.42'	264.30'	45°08'50"	139.44	257.52'	S87°31'28"E
C5	175.00'	116.86'	38°15'39"	60.70	114.70'	S23°03'32"E
C6	125.00'	112.05'	51°21'30"	60.10	108.33'	S67°52'06"E
C7	50.00'	223.04'	25°53'03"	64.48	79.02'	S34°14'40"W
C8	25.00'	26.67'	61°07'57"	14.77	25.43'	N48°31'47"W
C9	225.00'	150.25'	38°15'39"	78.05	147.47'	N23°03'32"W
C10	25.00'	42.44'	97°15'24"	28.39	37.52'	N52°33'24"W
C11	125.00'	28.40'	13°01'05"	14.26	28.34'	S72°18'21"W
C12	225.00'	95.67'	24°21'42"	48.57	94.95'	S77°58'39"W
C13	175.00'	376.43'	123°14'39"	323.95	307.94'	S28°32'10"W
C14	275.00'	273.86'	57°03'32"	149.50	262.69'	S04°33'24"E

CURVE TABLE						
CURVE	RADIUS	LENGTH	DELTA	TANGENT	CHORD	CHD BRG
C15	25.00'	39.11'	89°37'37"	24.84	35.24'	S20°50'26"E
C16	50.00'	218.63'	25°31'44"	70.71	81.65'	S59°36'37"W
C17	25.00'	30.77'	70°31'44"	17.68	28.87'	N30°23'23"W
C18	25.00'	59.06'	135°21'12"	60.89	46.25'	S46°40'09"W
C19	50.00'	238.39'	27°31'03"	47.31	68.73'	N64°25'21"W
C20	25.00'	21.03'	48°11'23"	11.18	20.41'	N48°04'04"E
C21	225.00'	224.07'	57°03'32"	122.31	214.92'	N04°33'24"W
C22	25.00'	30.77'	70°31'44"	17.68	28.87'	N68°21'10"W
C23	50.00'	123.10'	141°03'27"	141.42	94.28'	N33°05'10"W
C24	25.00'	30.77'	70°31'44"	17.68	28.87'	N02°10'42"E
C25	225.00'	483.98'	123°14'39"	416.51	395.92'	N28°32'10"E
C26	175.00'	74.41'	24°21'42"	37.77	73.85'	N77°58'39"E
C27	175.00'	50.54'	16°32'44"	25.44	50.36'	N74°04'10"E
C28	24.87'	38.11'	87°46'54"	23.93	34.49'	N38°43'48"E

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N14°36'11"E	100.52'
L2	N46°02'32"E	16.61'
L3	S64°57'03"E	93.64'
L4	N68°49'23"E	238.52'
L5	S25°28'15"E	112.47'
L6	S42°12'50"E	149.97'
L7	S50°45'33"E	41.02'
L8	S59°41'02"E	6.98'
L9	S85°25'06"E	4.73'
L10	N81°13'52"W	52.04'
L11	N84°41'45"W	24.23'
L12	N82°56'26"W	148.90'
L13	N50°33'43"E	70.56'
L14	N86°27'09"E	22.73'
L15	N33°05'10"W	58.21'

LINE TABLE		
LINE	BEARING	DISTANCE
L16	S81°38'29"E	75.85'
L17	N28°43'20"E	9.46'
L18	N05°54'53"W	22.92'
L19	N33°42'28"W	14.51'
L20	N29°51'26"W	7.50'
L21	N38°26'57"W	29.13'
L22	N64°37'24"W	14.97'
L23	N17°55'21"E	24.31'
L24	N06°05'48"E	37.01'
L25	N17°53'24"E	5.26'
L26	N15°34'40"E	50.21'
L27	N76°57'46"E	34.44'
L28	N79°50'17"E	20.84'
L29	S66°03'07"E	28.21'
L30	S56°28'33"E	20.87'
L31	S71°05'46"E	77.77'
L32	N89°50'30"W	14.94'
L33	S81°48'07"W	110.96'
L34	S10°17'07"E	57.15'
L35	S27°10'01"E	51.13'
L36	S41°30'05"E	32.36'
L37	S18°54'14"W	42.55'



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# DALE RIDGE

FOR

# DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: 1"=100'

Date: 2021.12.10

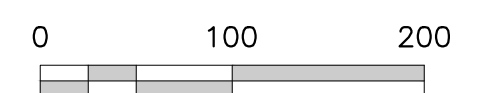
Approved By: JFV

Revisions:

Drawing Title:  
**OVERALL LAYOUT**

Drawing No.  
**C1.0**

Project No.  
21-0164



02/19/2023 10:48 AM: RAGANSMITH.COM\ENGINEERS\DAVID WILEMAN\2021\DALE RIDGE\OVERALL LAYOUT.DWG  
PLOTTER BY JAY HARRISON ON 12/30/21 10:47 AM. LAST UPDATED BY WILEMAN ON 12/30/21 8:46 AM



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MAP 19, PARCEL 65.05  
ENNIS RODES  
DEED BOOK 106, PAGE 123  
R.O.D.C.T.

MAP 19, PARCEL 65.02  
JOEL WALTER PERRY  
MARK LINDSEY PERY  
DEED BOOK 330, PAGE 296  
R.O.D.C.T.

DALE RIDGE ROAD  
(PUBLIC R/W VARIES)

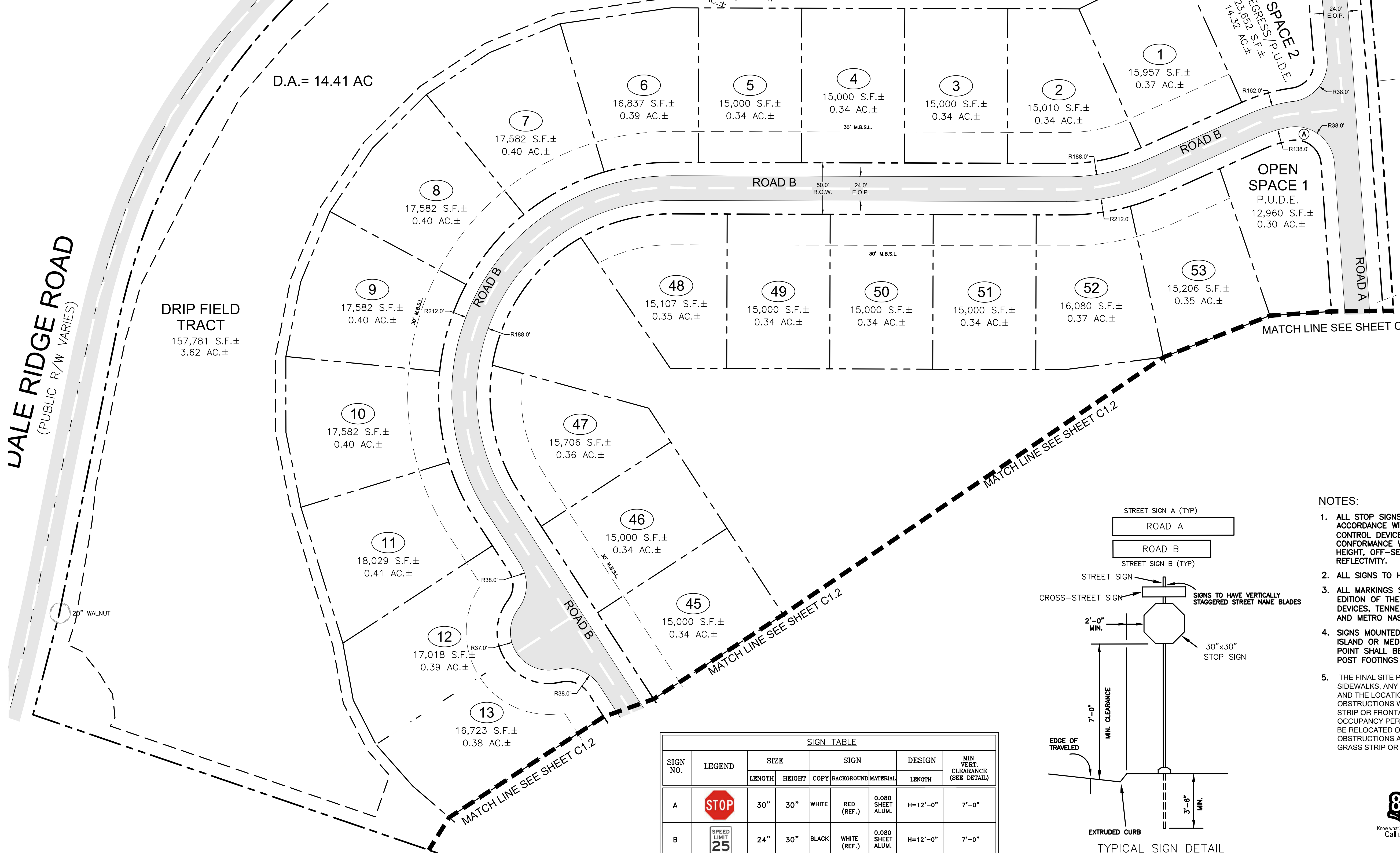
DRIP FIELD TRACT  
157,781 S.F.±  
3.62 AC.±

D.A.= 14.41 AC

OPEN SPACE 2  
INGRESS-EGRESS/P.U.D.E.  
623,652 S.F.±  
14.32 AC.±

OPEN SPACE 2  
INGRESS-EGRESS/P.U.D.E.  
623,652 S.F.±  
14.32 AC.±

OPEN SPACE 1  
P.U.D.E.  
12,960 S.F.±  
0.30 AC.±



DALE RIDGE  
FOR  
DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: 1"=50'

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

ENLARGED LAYOUT

Drawing No.

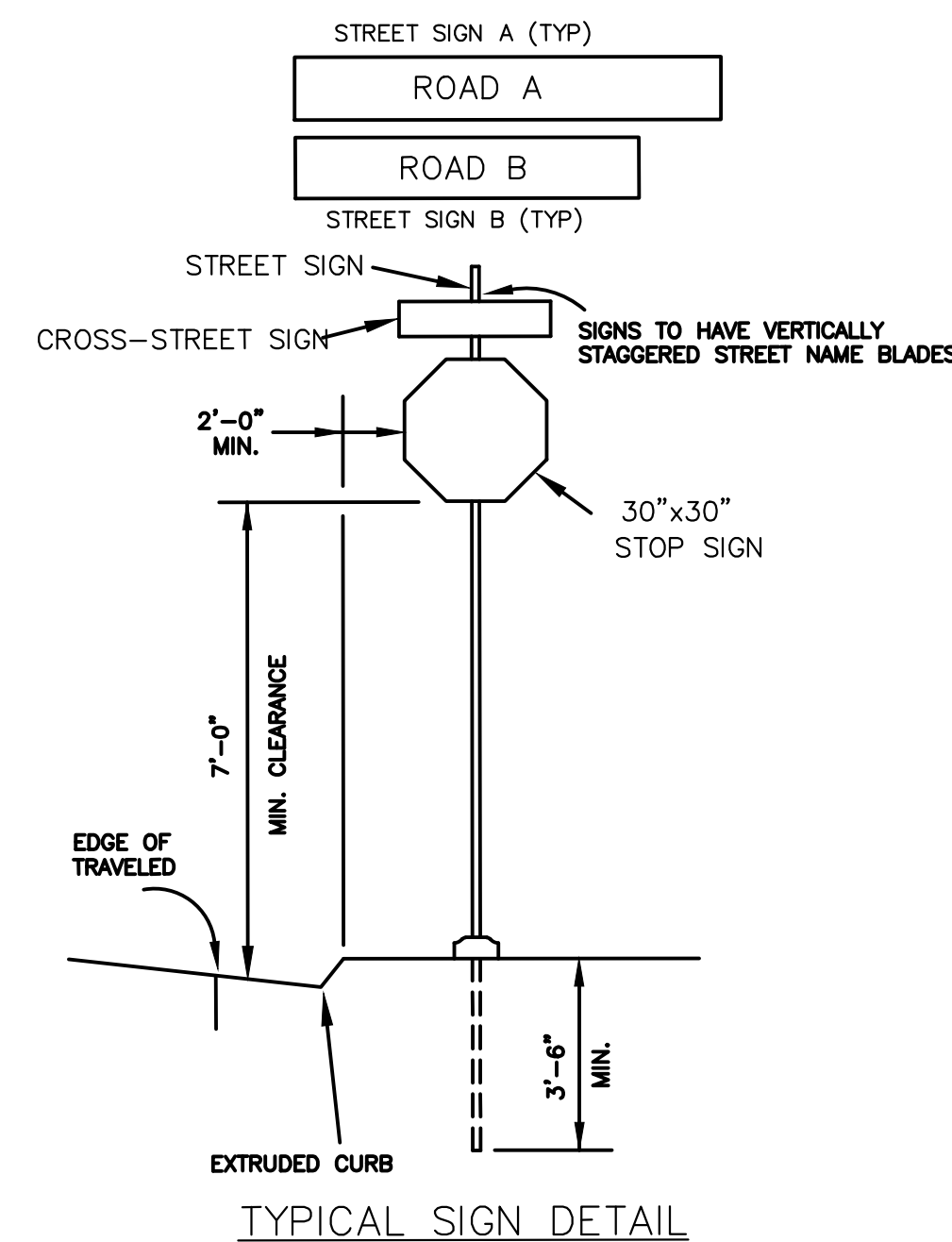
C1.1

Project No.

21-0164

NOTES:

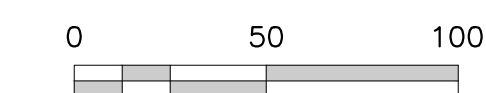
- ALL STOP SIGNS SHALL MEASURE A MINIMUM OF 30"x30" IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). INSTALLATION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT MUTCD, INCLUDING HEIGHT, OFF-SET, OTHER DIMENSIONAL PROPERTIES, AND REFLECTIVITY.
- ALL SIGNS TO HAVE 3M REFLECTIVE COATING.
- ALL MARKINGS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM CONTROL DEVICES, TENNESSEE D.O.T. STANDARD DRAWINGS, AND METRO NASHVILLE SPECIFICATIONS.
- SIGNS MOUNTED IN THE CENTRAL ISLAND, SPLITTER ISLAND OR MEDIAN AT THE ROUNDABOUT ENTRY POINT SHALL BE INSTALLED WITH BREAKAWAY TYPE POST FOOTINGS - SEE TDOT STD. DWG T-S-12.
- THE FINAL SITE PLAN SHALL DEPICT THE REQUIRED PUBLIC SIDEWALKS. ANY REQUIRED GRASS STRIP OR FRONTAGE ZONE AND THE LOCATION OF ALL EXISTING AND PROPOSED VERTICAL OBSTRUCTIONS WITHIN THE REQUIRED SIDEWALK AND GRASS STRIP OR FRONTAGE ZONE. PRIOR TO THE ISSUANCE OF USE AND OCCUPANCY PERMITS, EXISTING VERTICAL OBSTRUCTIONS SHALL BE RELOCATED OUTSIDE OF THE REQUIRED SIDEWALK. VERTICAL OBSTRUCTIONS ARE ONLY PERMITTED WITHIN THE REQUIRED GRASS STRIP OR FRONTAGE ZONE



SIGN TABLE

SIGN NO.	LEGEND	SIZE		SIGN			DESIGN LENGTH	MIN. VERT. CLEARANCE (SEE DETAIL)
		LENGTH	HEIGHT	COPY	BACKGROUND	MATERIAL		
A		30"	30"	WHITE	RED (REF.)	0.080 SHEET ALUM.	H=12'-0"	7'-0"
B		24"	30"	BLACK	WHITE (REF.)	0.080 SHEET ALUM.	H=12'-0"	7'-0"

02/10/2021 10:50 AM... LAST UPDATED BY: JFV ON 12/10/2021 10:51 AM





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DALE RIDGE  
FOR  
DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: 1"=50'

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

ENLARGED LAYOUT

Drawing No.

C1.2

Project No.

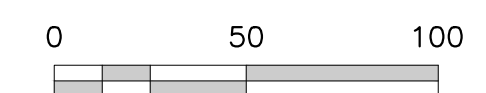
21-0164

MAP 19, PARCEL 65.02  
JOEL WALTER PERRY  
MARK LINDSEY PERY  
DEED BOOK 330, PAGE 296  
R.O.D.C.T.

MAP 19, PARCEL 65.03  
JOANN MCCARTY  
DEED BOOK 264, PAGE 571  
R.O.D.C.T.

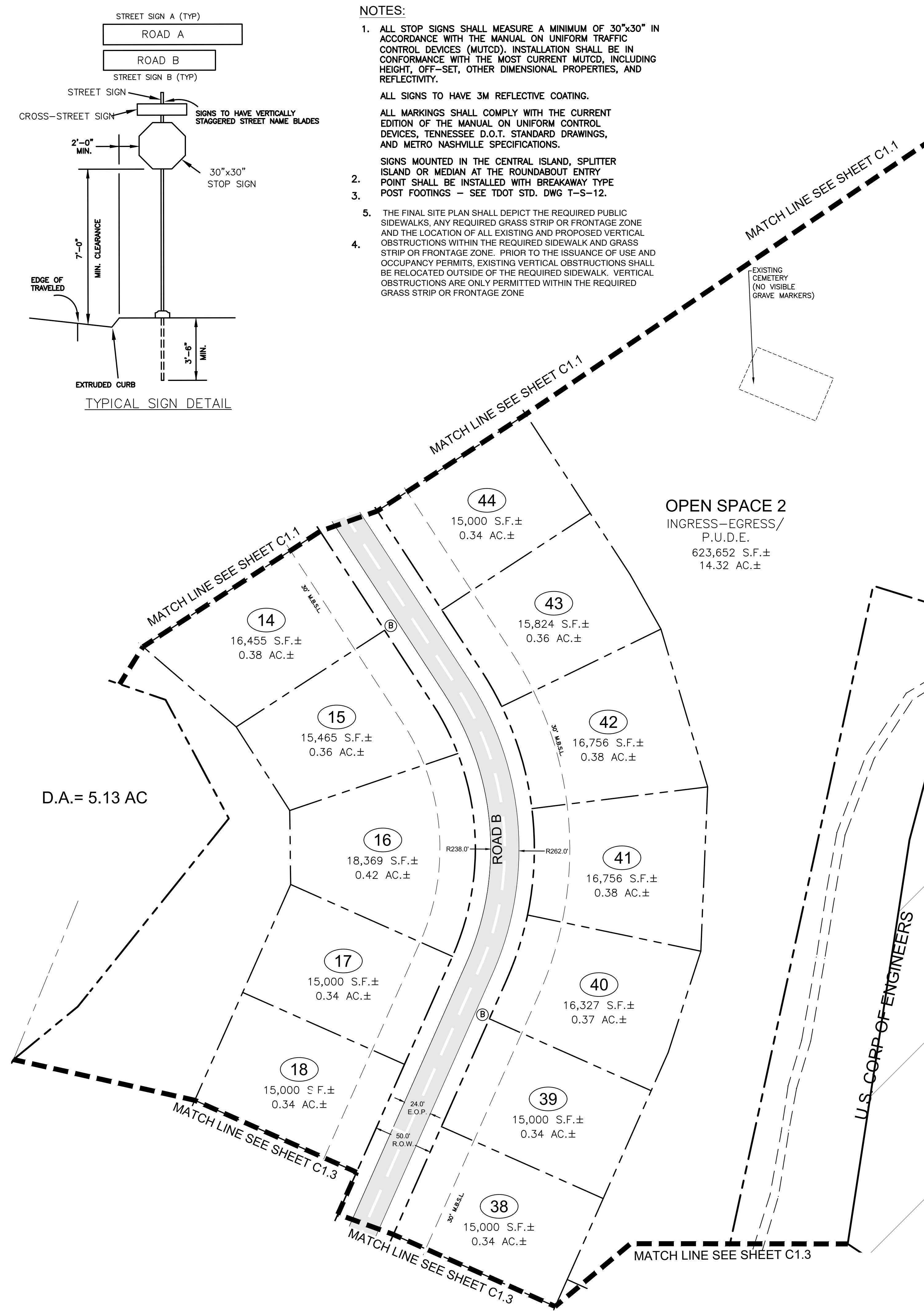
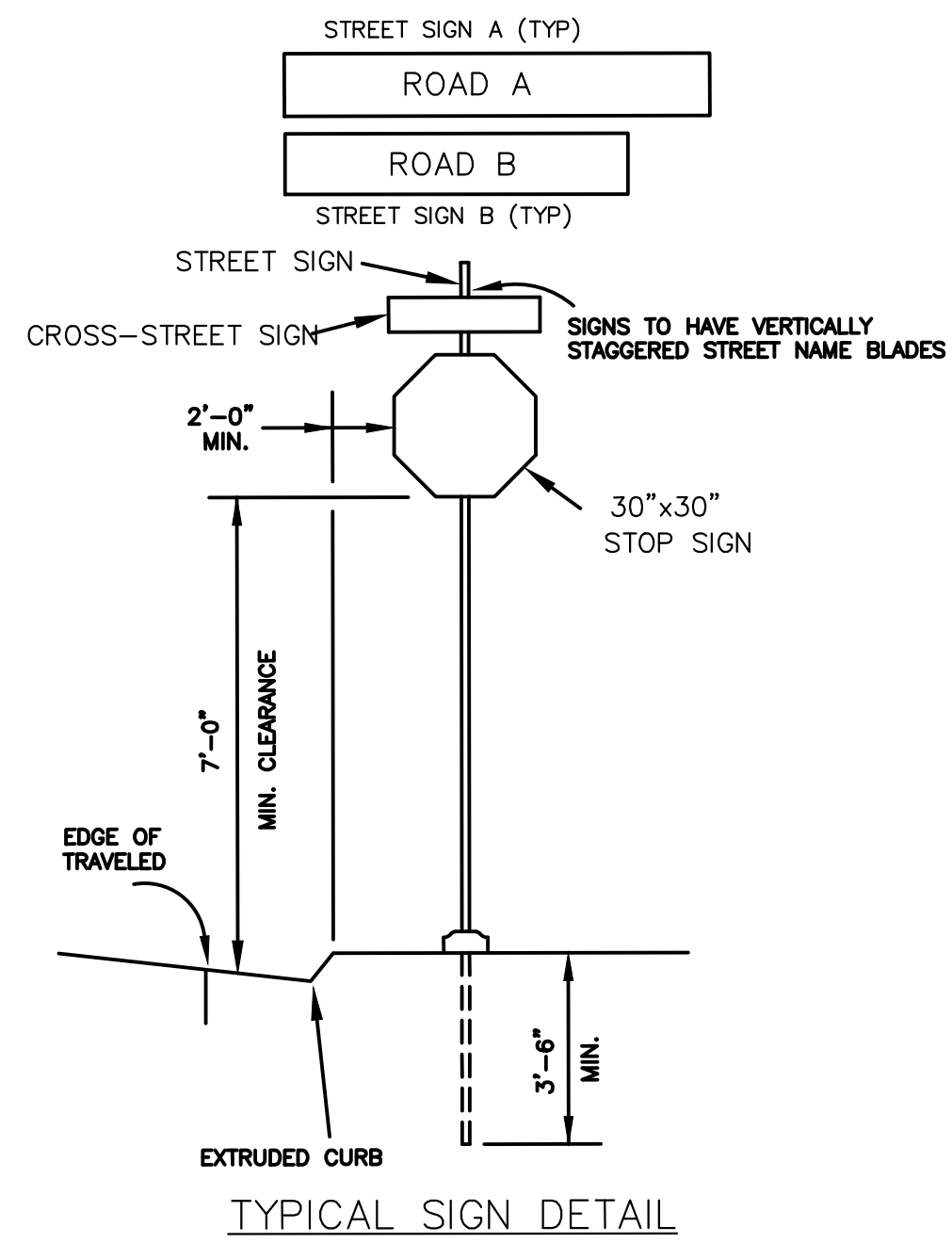
LAKE VIEW  
SUBDIVISION  
PLAT BOOK 3, PAGE 430  
R.O.D.C.T.

SIGN NO.	LEGEND	SIZE		SIGN			DESIGN LENGTH	MIN. VERT. CLEARANCE (SEE DETAIL)
		LENGTH	HEIGHT	COPY	BACKGROUND	MATERIAL		
A		30"	30"	WHITE	RED (REF.)	0.080 SHEET ALUM.	H=12'-0"	7'-0"
B		24"	30"	BLACK	WHITE (REF.)	0.080 SHEET ALUM.	H=12'-0"	7'-0"



NOTES:

- ALL STOP SIGNS SHALL MEASURE A MINIMUM OF 30"x30" IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). INSTALLATION SHALL BE IN CONFORMANCE WITH THE MOST CURRENT MUTCD, INCLUDING HEIGHT, OFF-SET, OTHER DIMENSIONAL PROPERTIES, AND REFLECTIVITY.  
ALL SIGNS TO HAVE 3M REFLECTIVE COATING.
- ALL MARKINGS SHALL COMPLY WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, TENNESSEE D.O.T. STANDARD DRAWINGS, AND METRO NASHVILLE SPECIFICATIONS.
- SIGNS MOUNTED IN THE CENTRAL ISLAND, SPLITTER ISLAND OR MEDIAN AT THE ROUNDABOUT ENTRY POINT SHALL BE INSTALLED WITH BREAKAWAY TYPE POST FOOTINGS - SEE TDOT STD. DWG T-S-12.
- THE FINAL SITE PLAN SHALL DEPICT THE REQUIRED PUBLIC SIDEWALKS, ANY REQUIRED GRASS STRIP OR FRONTAGE ZONE AND THE LOCATION OF ALL EXISTING AND PROPOSED VERTICAL OBSTRUCTIONS WITHIN THE REQUIRED SIDEWALK AND GRASS STRIP OR FRONTAGE ZONE. PRIOR TO THE ISSUANCE OF USE AND OCCUPANCY PERMITS, EXISTING VERTICAL OBSTRUCTIONS SHALL BE RELOCATED OUTSIDE OF THE REQUIRED SIDEWALK. VERTICAL OBSTRUCTIONS ARE ONLY PERMITTED WITHIN THE REQUIRED GRASS STRIP OR FRONTAGE ZONE.



DATE PLOTTED: 12/10/2021 10:50 AM. PLOTTED BY: JAV. DATE: 12/10/2021 10:50 AM. LAST UPDATED BY: JAV. DATE: 12/10/2021 10:50 AM.





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# DALE RIDGE

FOR  
DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE



Scale: 1"=100'

Date: 2021.12.10

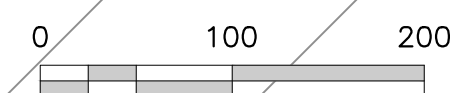
Approved By: JFV

Revisions:

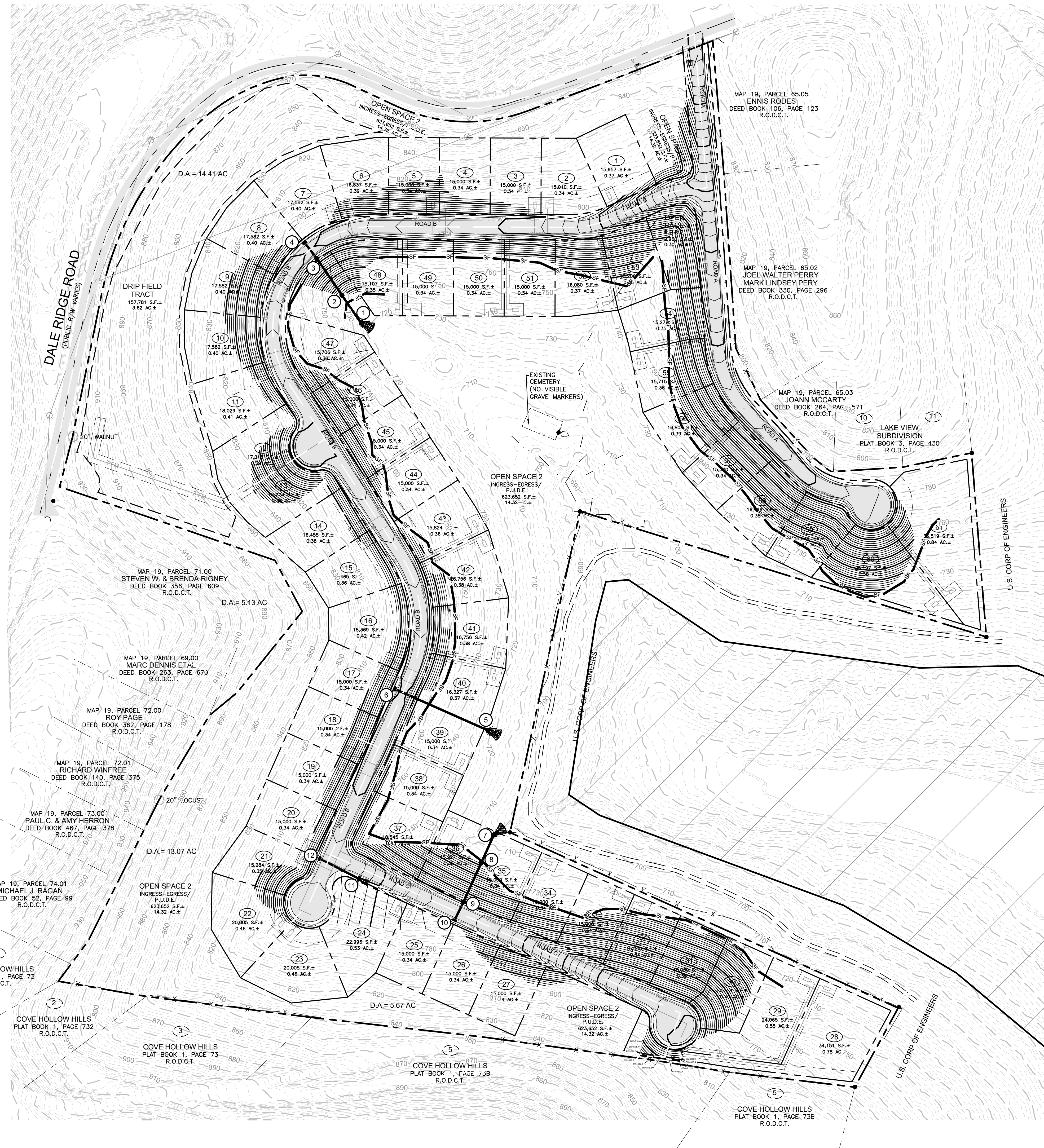
Drawing Title:  
**INITIAL EROSION CONTROL**

Drawing No.  
**C2.0**

Project No.  
21-0164



010-114-0000 ENGINEERED AS AN INTERIOR/EXTERIOR ARCHITECTURAL DRAWING. PLOTTED BY JAV WARTON ON 12/30/21 10:51 AM. LAST UPDATED BY WARTON ON 12/30/21 8:55 AM



DRAINAGE STRUCTURE SCHEDULE				
NO.	TYPE*	CASTING	RIM	INVERTS
1	HEADWALL	REINFORCED CONCRETE		718.00 (2)
2	48 INCH CYLINDRICAL STRUCTURE	REINFORCED CONCRETE	732.48	725.80 (1) 726.00 (3)
3	48 INCH CYLINDRICAL STRUCTURE	REINFORCED CONCRETE	774.98	770.20 (4) 770.00 (2)
4	HEADWALL	REINFORCED CONCRETE		775.00 (3)
5	HEADWALL	REINFORCED CONCRETE		716.00 (6)
6	HEADWALL	REINFORCED CONCRETE		775.00 (5)
7	HEADWALL	REINFORCED CONCRETE		700.00 (8)
8	48 INCH CYLINDRICAL STRUCTURE	REINFORCED CONCRETE	717.97	709.80 (7) 710.00 (9)
9	48 INCH CYLINDRICAL STRUCTURE	REINFORCED CONCRETE	759.47	752.20 (10) 752.00 (8)
10	HEADWALL	REINFORCED CONCRETE		757.00 (9)
11	HEADWALL	REINFORCED CONCRETE		770.00 (12)
12	HEADWALL	REINFORCED CONCRETE		773.00 (11)

PIPE TABLE			
LINE	SIZE/TYPE	LENGTH	SLOPE
1-2	30" RCP	65'	12.05%
2-3	30" RCP	88'	50.00%
3-4	30" RCP	38'	12.63%
5-6	30" RCP	198'	29.80%
7-8	30" RCP	60'	16.45%
8-9	30" RCP	84'	50.00%
9-10	30" RCP	38'	12.63%
11-12	30" RCP	84'	3.57%



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ragansmith.com

**DALE RIDGE**  
FOR  
**DAVID WILEMAN**

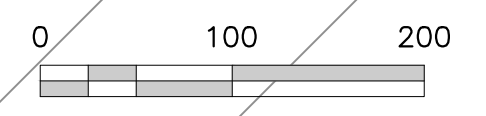
15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: 1"=100'  
Date: 2021.12.10  
Approved By: JFV  
Revisions:

Drawing Title:  
**OVERALL GRADING**

Drawing No.  
**C3.0**

Project No.  
21-0164



02/10/2021 09:00 AM: RAGANSMITH.COM\ENGINEERS\DAVID WILEMAN\OVERALL GRADING\DWG  
 PLOTTED BY JAVY WARTERSON 12/30/21 10:01 PM. LAST UPDATED BY WILEMAN ON 12/30/21 8:43 AM



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MAP 19, PARCEL 65.05  
ENNIS RODES  
DEED BOOK 106, PAGE 123  
R.O.D.C.T.

MAP 19, PARCEL 65.02  
JOEL WALTER PERRY  
MARK LINDSEY PERRY  
DEED BOOK 330, PAGE 296  
R.O.D.C.T.



# DALE RIDGE

FOR  
DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: 1"=50'

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

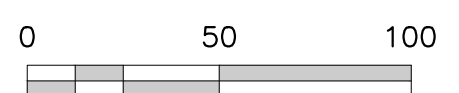
ENLARGED GRADING

Drawing No.

# C3.1

Project No.

21-0164



02/11/2021 10:58 AM  
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PLOT BY JAY WATSON 12/10/21 10:58 AM  
LAST UPDATED BY WATSON ON 12/10/21 10:58 AM



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DALE RIDGE

FOR

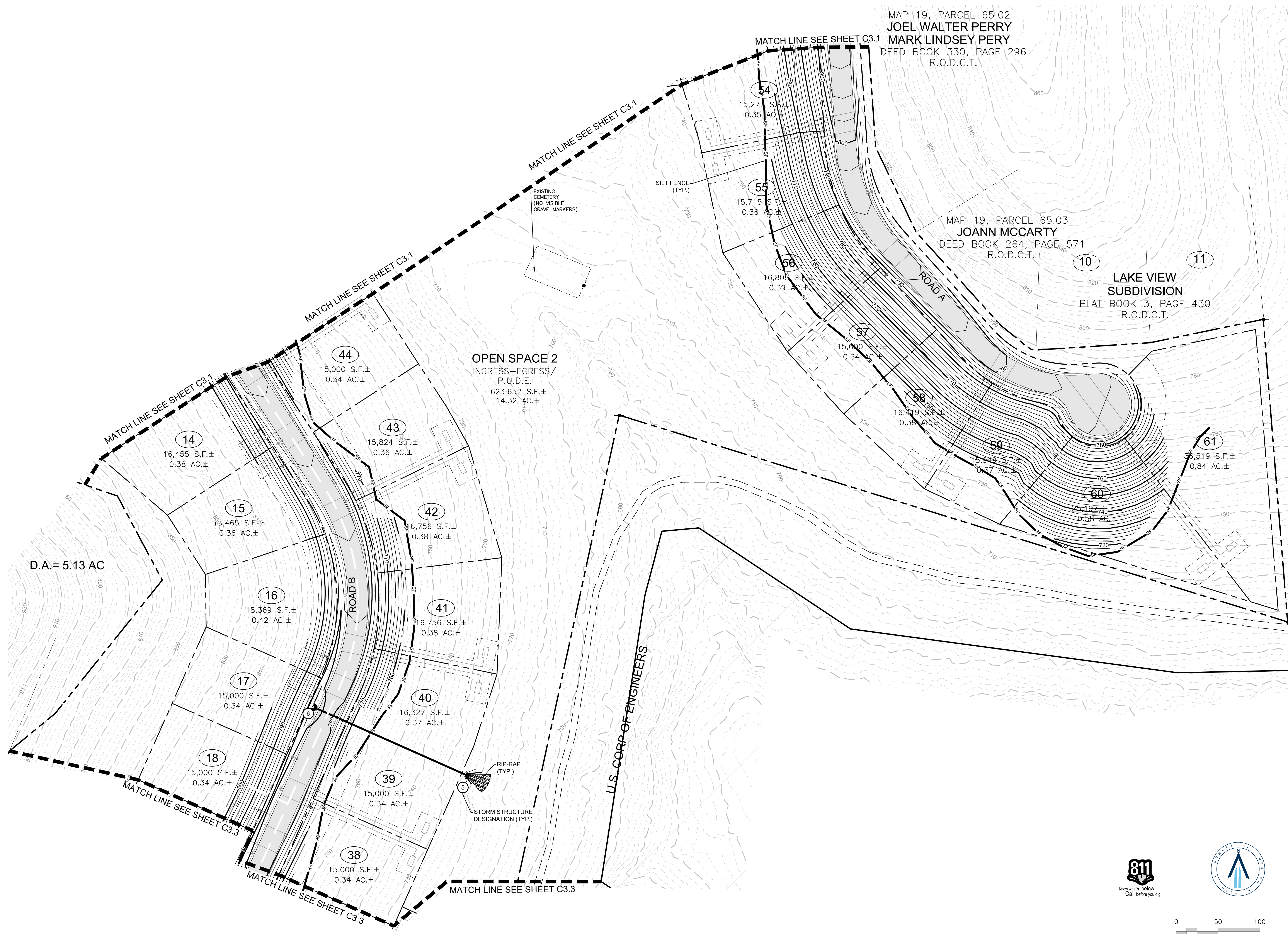
DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

MAP 19, PARCEL 65.02  
JOEL WALTER PERRY  
MARK LINDSEY PERY  
DEED BOOK 330, PAGE 296  
R.O.D.C.T.

MAP 19, PARCEL 65.03  
JOANN MCCARTY  
DEED BOOK 264, PAGE 571  
R.O.D.C.T.

LAKE VIEW  
SUBDIVISION  
PLAT BOOK 3, PAGE 430  
R.O.D.C.T.



D.A. = 5.13 AC

OPEN SPACE 2  
INGRESS-EGRESS/  
P.U.D.E.  
623,652 S.F.±  
14.32 AC.±

U.S. CORP OF ENGINEERS

Scale: 1"=50'

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

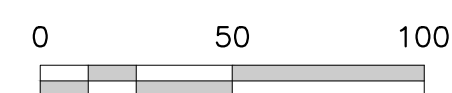
ENLARGED GRADING

Drawing No.

C3.2

Project No.

21-0164



02/10/2023 10:00 AM... LAST UPDATED BY WPM/MS ON 12/20/21 8:59 AM



RaganSmith

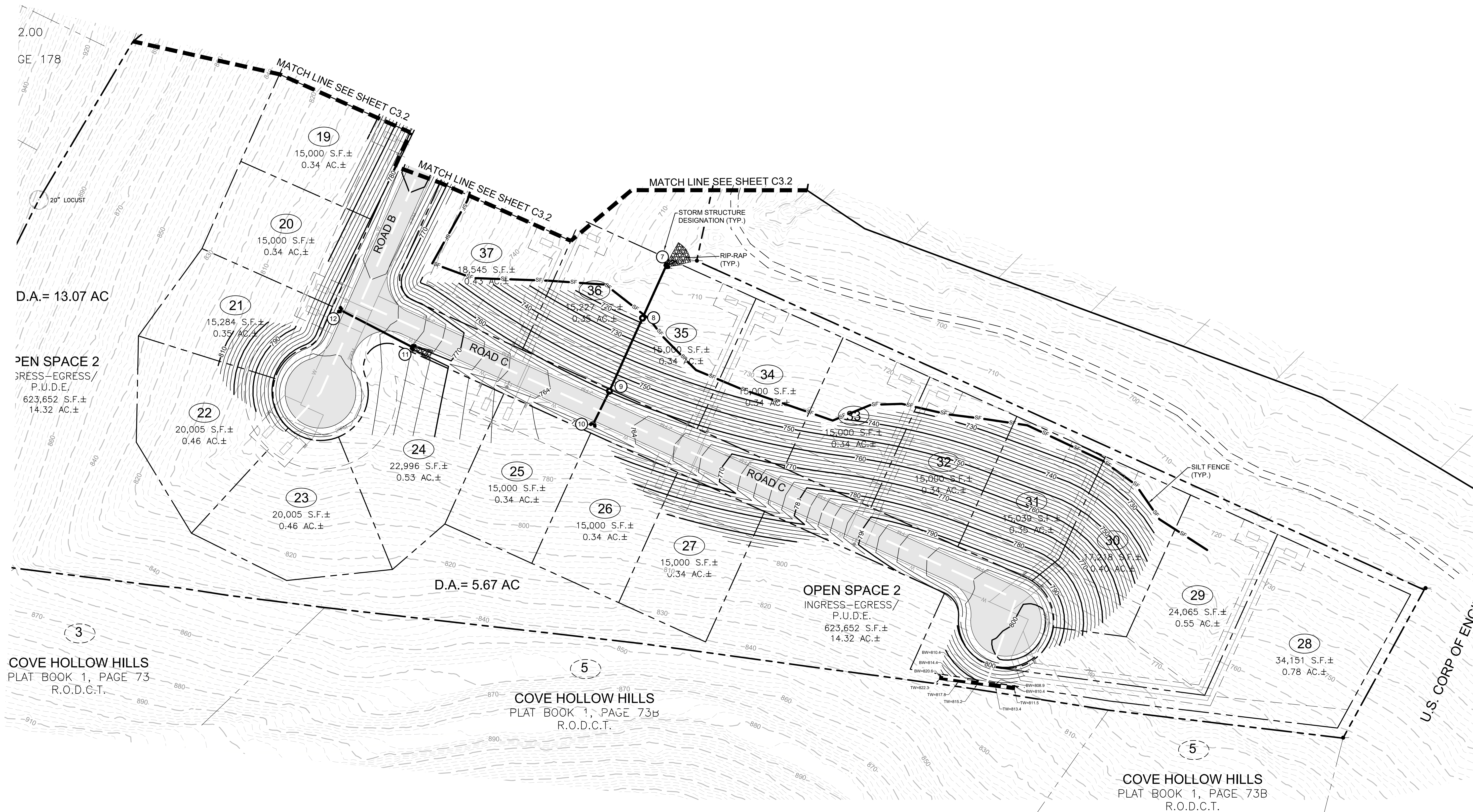
Nashville - Murfreesboro - Chattanooga  
ragansmith.com

DALE RIDGE

FOR

DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE



Scale: 1"=50'

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

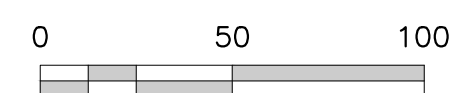
ENLARGED GRADING

Drawing No.

C3.3

Project No.

21-0164



02/10/2021 09:00 AM: ENLARGED GRADING PLAN FOR DALE RIDGE, DEKALB COUNTY, TN  
DRAWN BY: JFV, CHECKED BY: JFV, PLOTTED BY: JFV, DATE: 12/10/2021 10:07 AM, LAST UPDATED BY: JFV, ON: 12/10/2021 10:07 AM



**DALE RIDGE**  
FOR  
**DAVID WILEMAN**

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: NOT TO SCALE

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

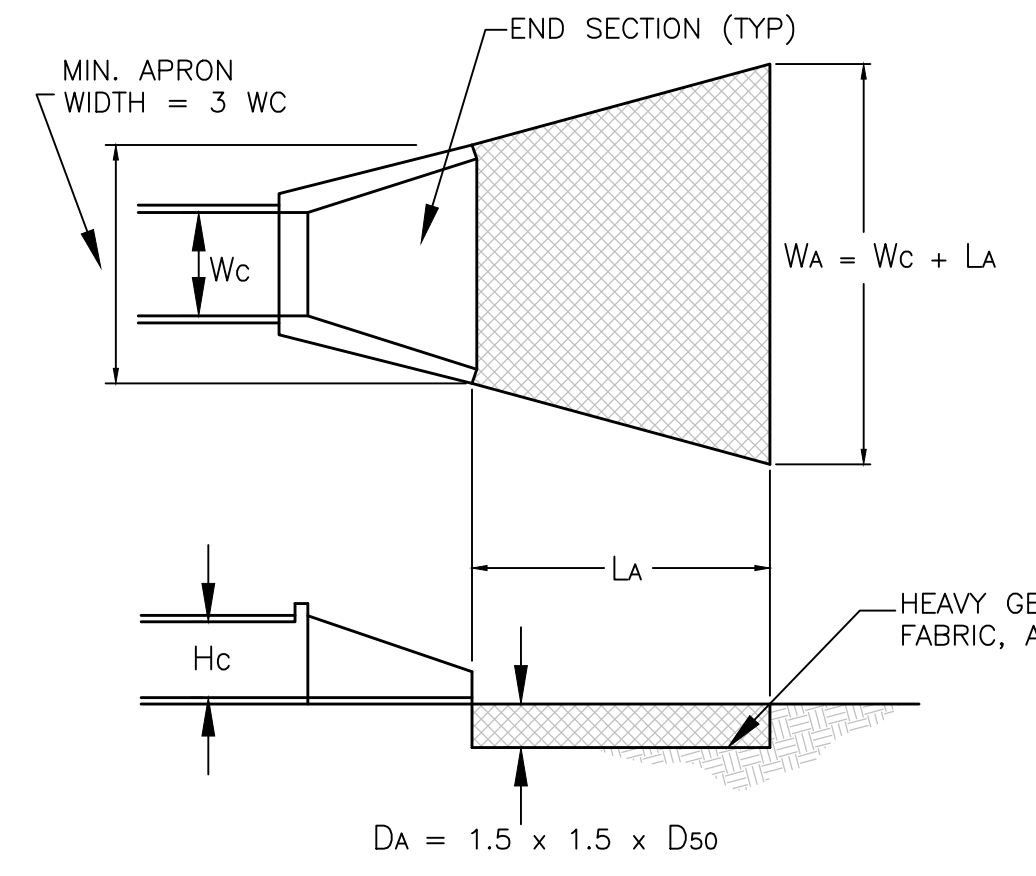
**DETAILS**

Drawing No.

**C5.0**

Project No.  
21-0164

Hc = HEIGHT OF CULVERT  
Wc = WIDTH OF CULVERT  
La = LENGTH OF RIP-RAP APRON  
Wa = WIDTH OF RIP-RAP APRON AT END  
D50 = MEDIAN RIP-RAP SIZE  
Dmax = MAXIMUM SIZE OF RIP-RAP = 1.5 D50  
Da = DEPTH OF RIP-RAP APRON = 1.5 Dmax  
SEPARATOR = GEOTEXTILE UNDERLAYMENT OR GRAVEL FILTER BLANKET

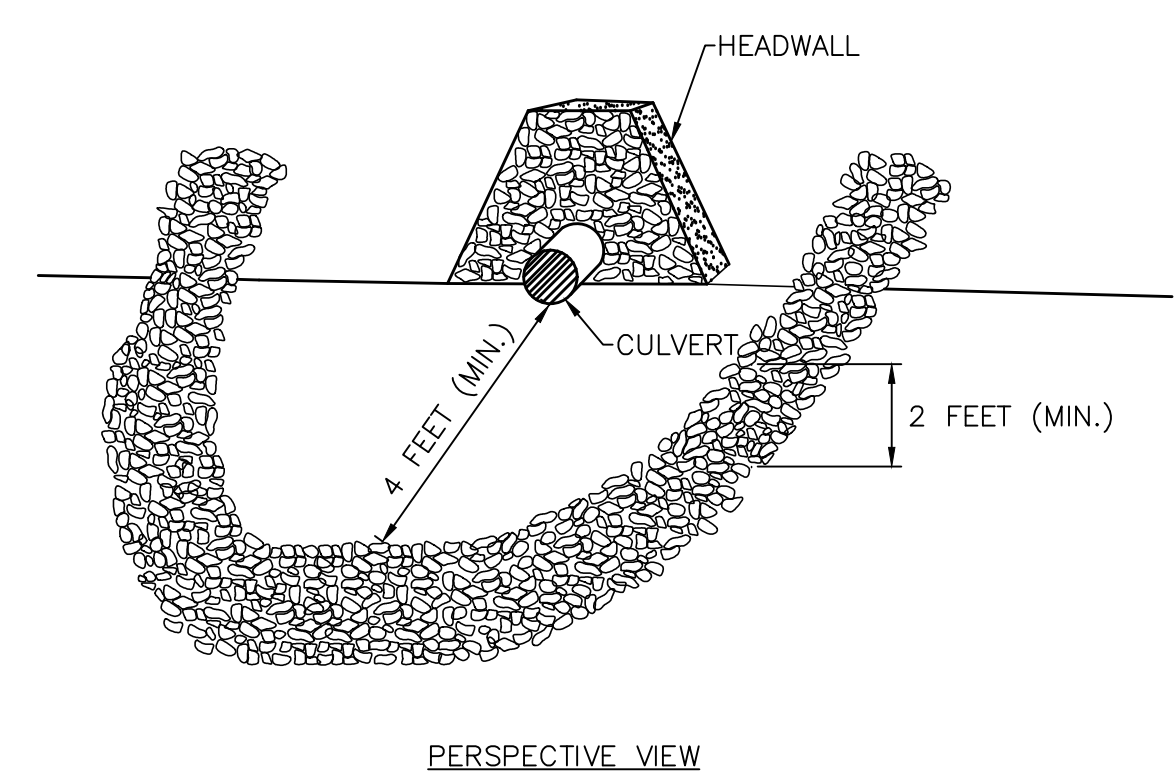
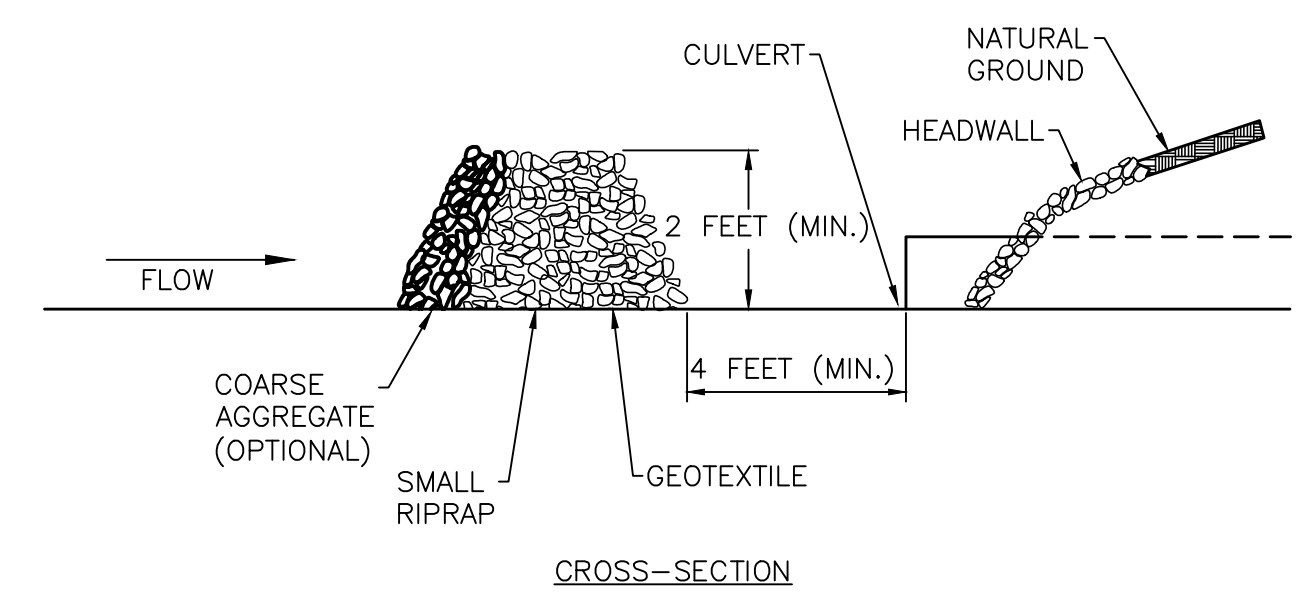


**RIPRAP APRONS FOR LOW TAILWATER (DOWNSTREAM FLOW DEPTH < 0.5 x PIPE DIAMETER)**

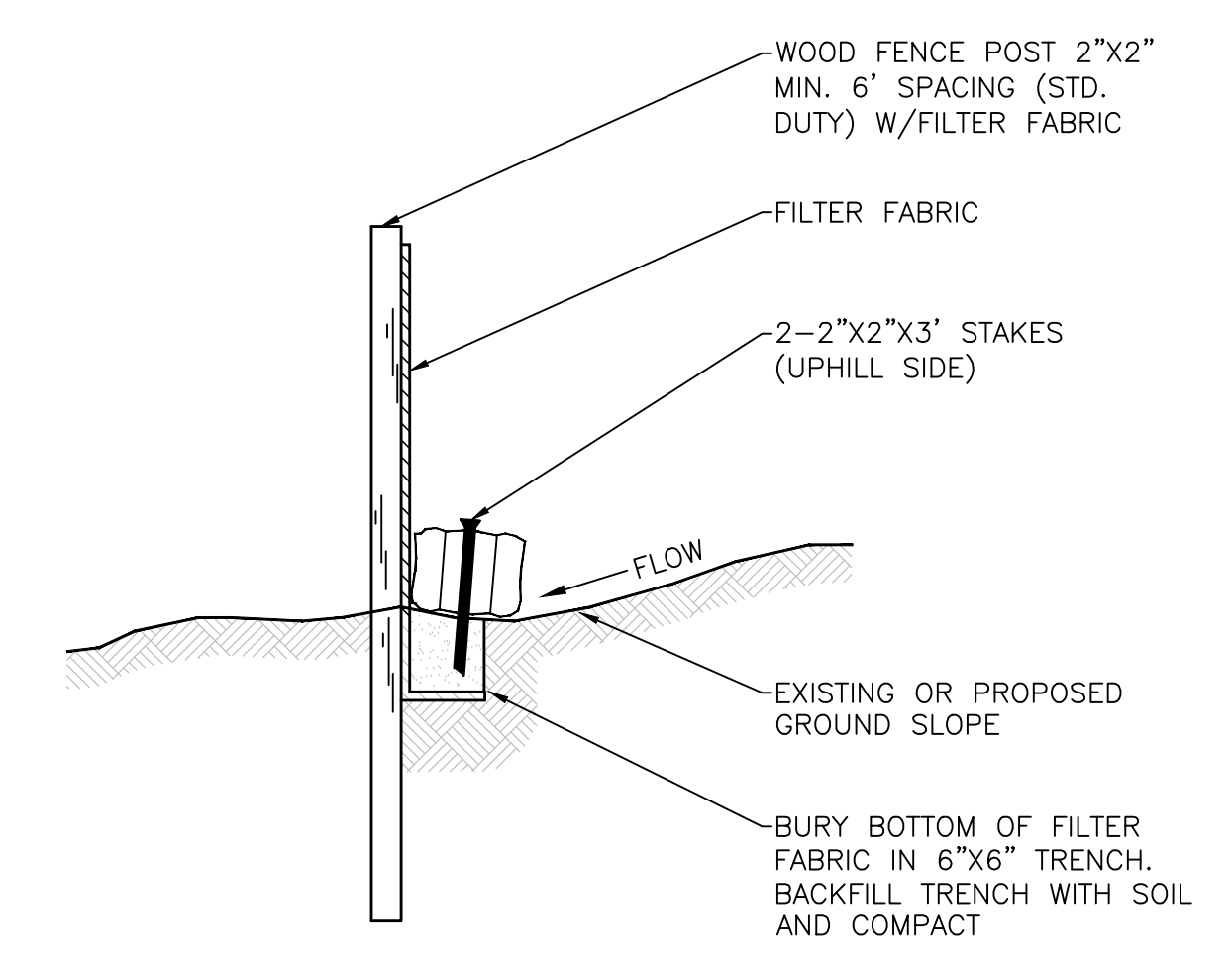
CULVERT DIAMETER	LOWEST VALUE			INTERMEDIATE VALUES TO INTERPOLATE FROM												HIGHEST VALUE																																
	Q	La	D50	Q	La	D50	Q	La	D50	Q	La	D50	Q	La	D50	Q	La	D50																														
	Cfs	ft	in	Cfs	ft	in	Cfs	ft	in	Cfs	ft	in	Cfs	ft	in	Cfs	ft	in																														
12"	4	7	2.5	6	10	3.5	9	13	5	12	16	7	15	19	9	18	22	11	21	25	13	24	28	15	27	31	17	30	34	19	33	37	21	36	40	23	39	43	25	42	46	27	45	49	29	48	52	31

TAILWATER < 0.5 Hc AND ASSUMING FULL CULVERT FLOW (LOW TAILWATER CONDITIONS)

RIP-RAP OUTLET PROTECTION DETAIL  
NOT TO SCALE

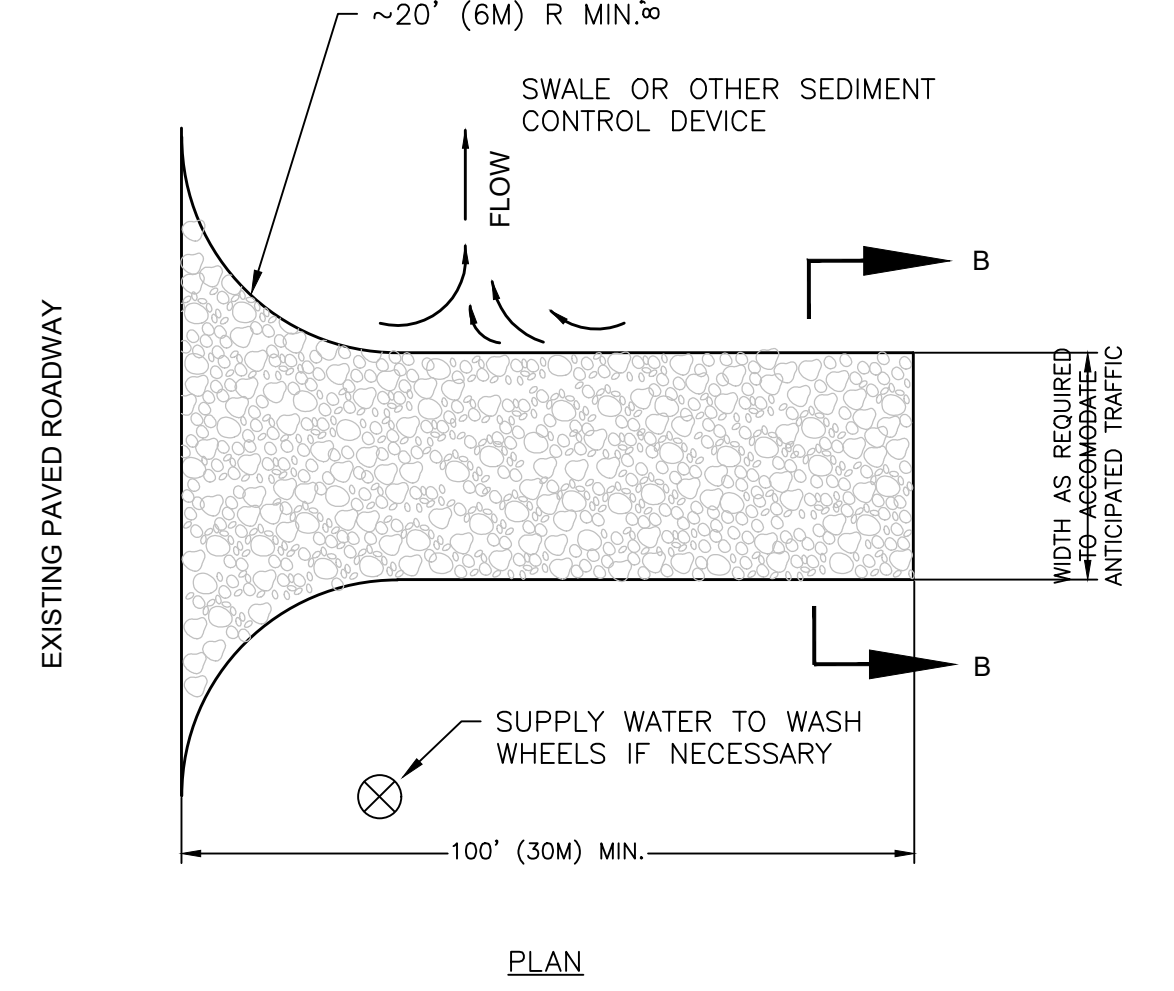
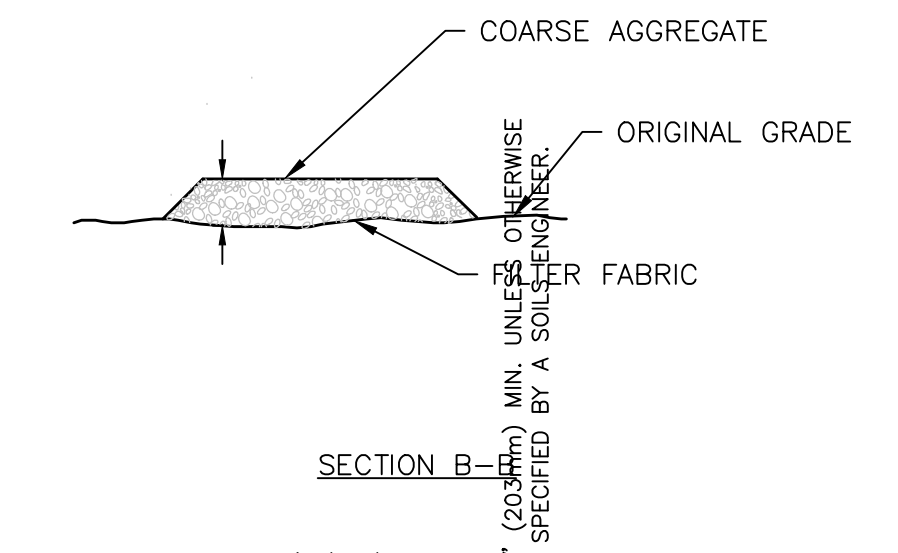


STONE FILTER RING  
NOT TO SCALE

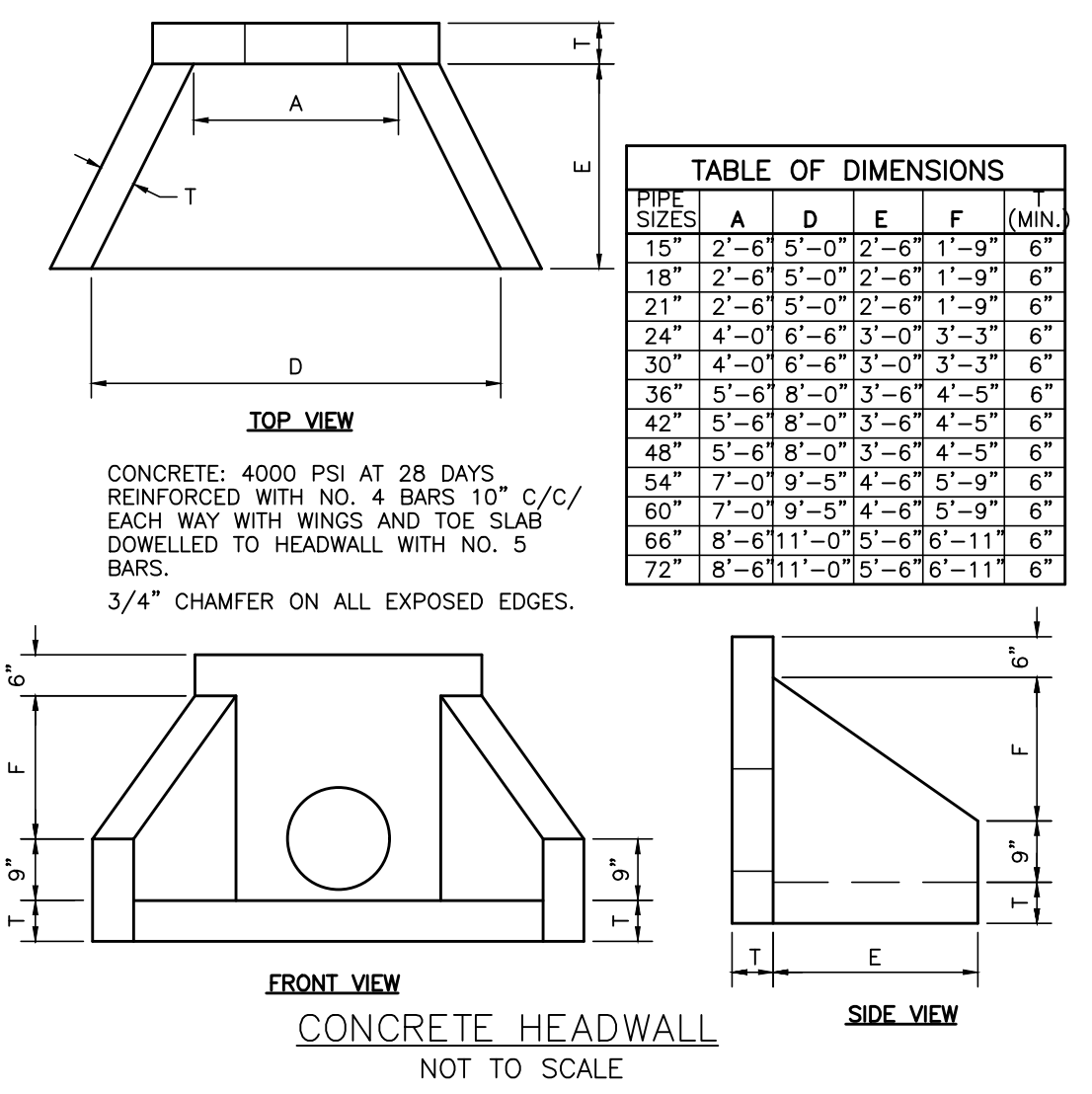


TO BE INSTALLED AS NOTED ON PLAN BEFORE COMMENCING GRADING OPERATION AND LEFT IN PLACE UNTIL A GOOD STAND OF GRASS IS ESTABLISHED OVER ALL DISTURBED AREAS, PRIOR TO INSTALLATION. CONTRACTOR SHOULD CONFIRM WITH THE PUBLIC WORKS DEPT. THAT THIS DETAIL IS THE CURRENT AND APPROVED EROSION/SILTATION BARRIER.

EROSION/SILTATION FENCE  
NOT TO SCALE

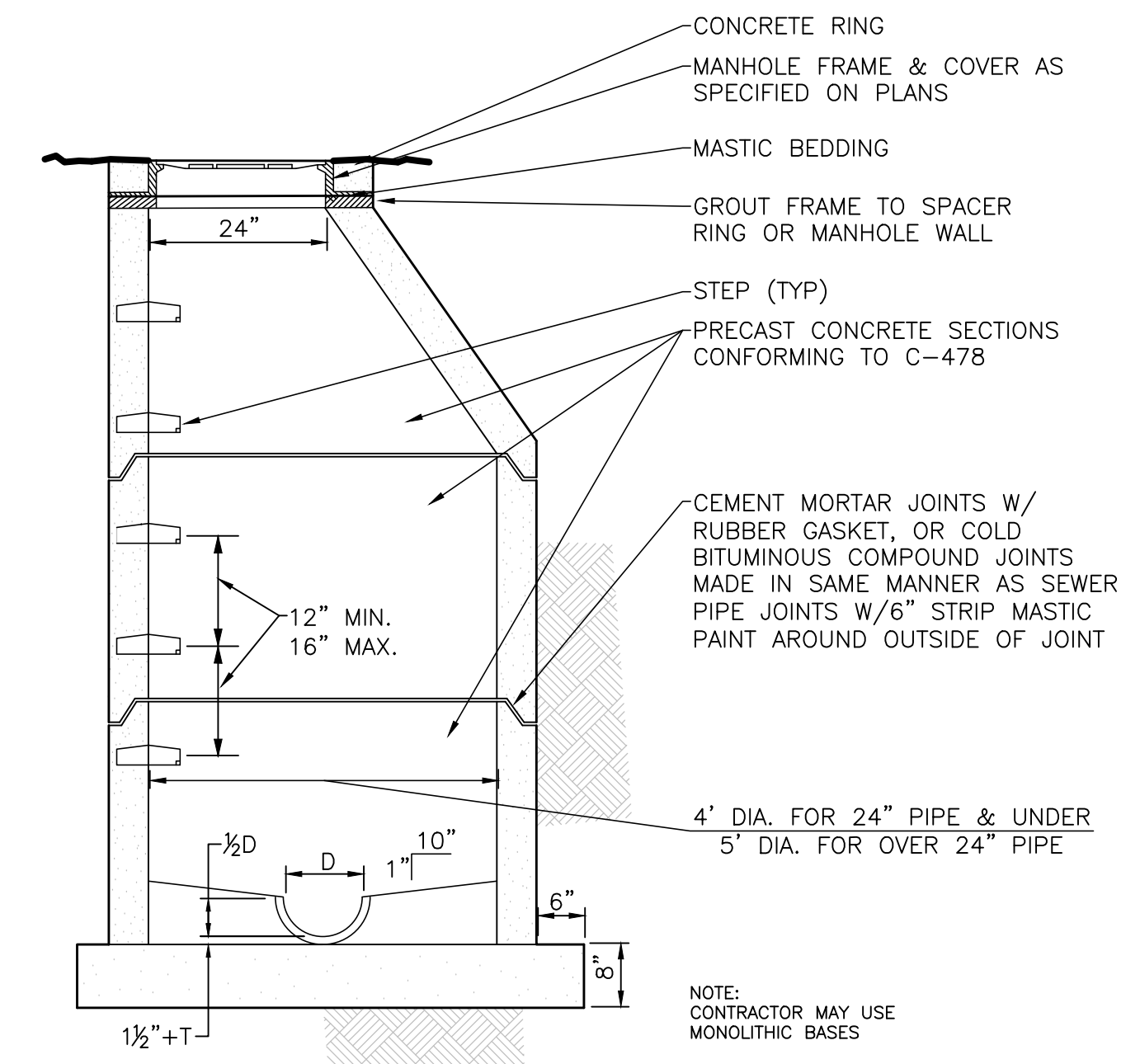


STABILIZED CONSTRUCTION ENTRANCE  
NOT TO SCALE



**TABLE OF DIMENSIONS**

PIPE SIZES	A	D	E	F	(MIN.)
15"	2'-6"	5'-0"	2'-6"	1'-9"	6"
18"	2'-6"	5'-0"	2'-6"	1'-9"	6"
21"	2'-6"	5'-0"	2'-6"	1'-9"	6"
24"	4'-0"	6'-6"	3'-0"	3'-3"	6"
30"	4'-0"	6'-6"	3'-0"	3'-3"	6"
36"	5'-6"	8'-0"	3'-6"	4'-5"	6"
42"	5'-6"	8'-0"	3'-6"	4'-5"	6"
48"	5'-6"	8'-0"	3'-6"	4'-5"	6"
54"	7'-0"	9'-5"	4'-6"	5'-9"	6"
60"	7'-0"	9'-5"	4'-6"	5'-9"	6"
66"	8'-6"	11'-0"	5'-6"	6'-11"	6"
72"	8'-6"	11'-0"	5'-6"	6'-11"	6"



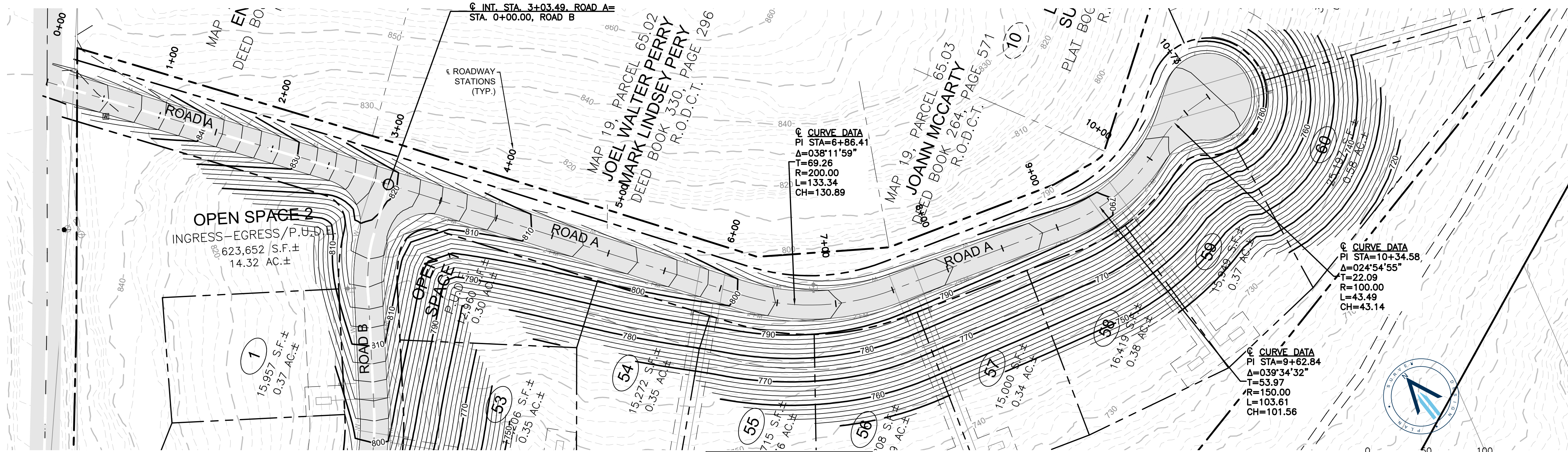
JUNCTION BOX  
NOT TO SCALE

C5.0 (RIP-RAP APRONS) - MURFREESBORO, TN - 12/10/21  
 PLOTTED BY JAV. DATE: 12/10/21 10:57 AM. LAST UPDATED BY: JAV. DATE: 12/10/21 10:57 AM



RaganSmith

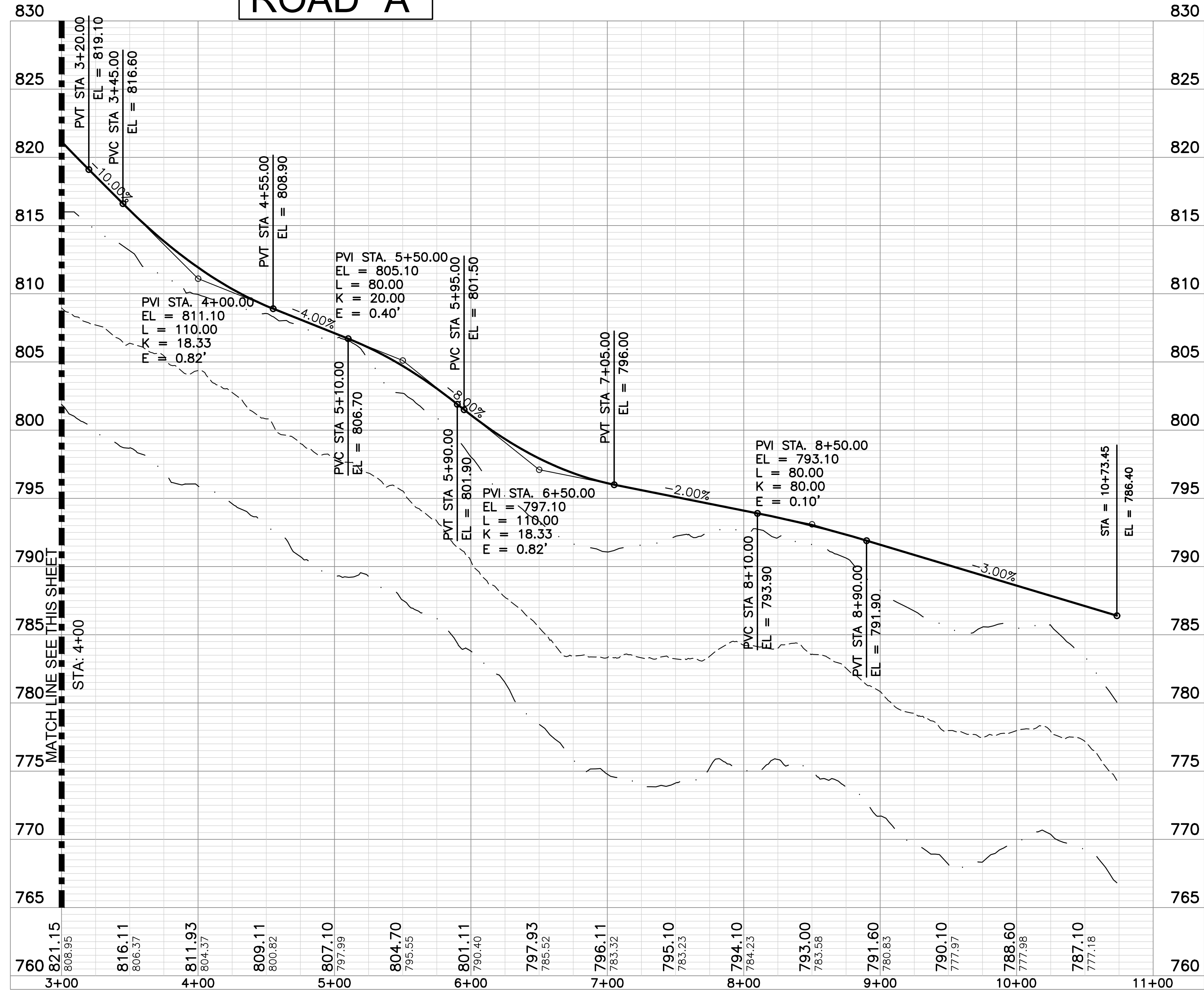
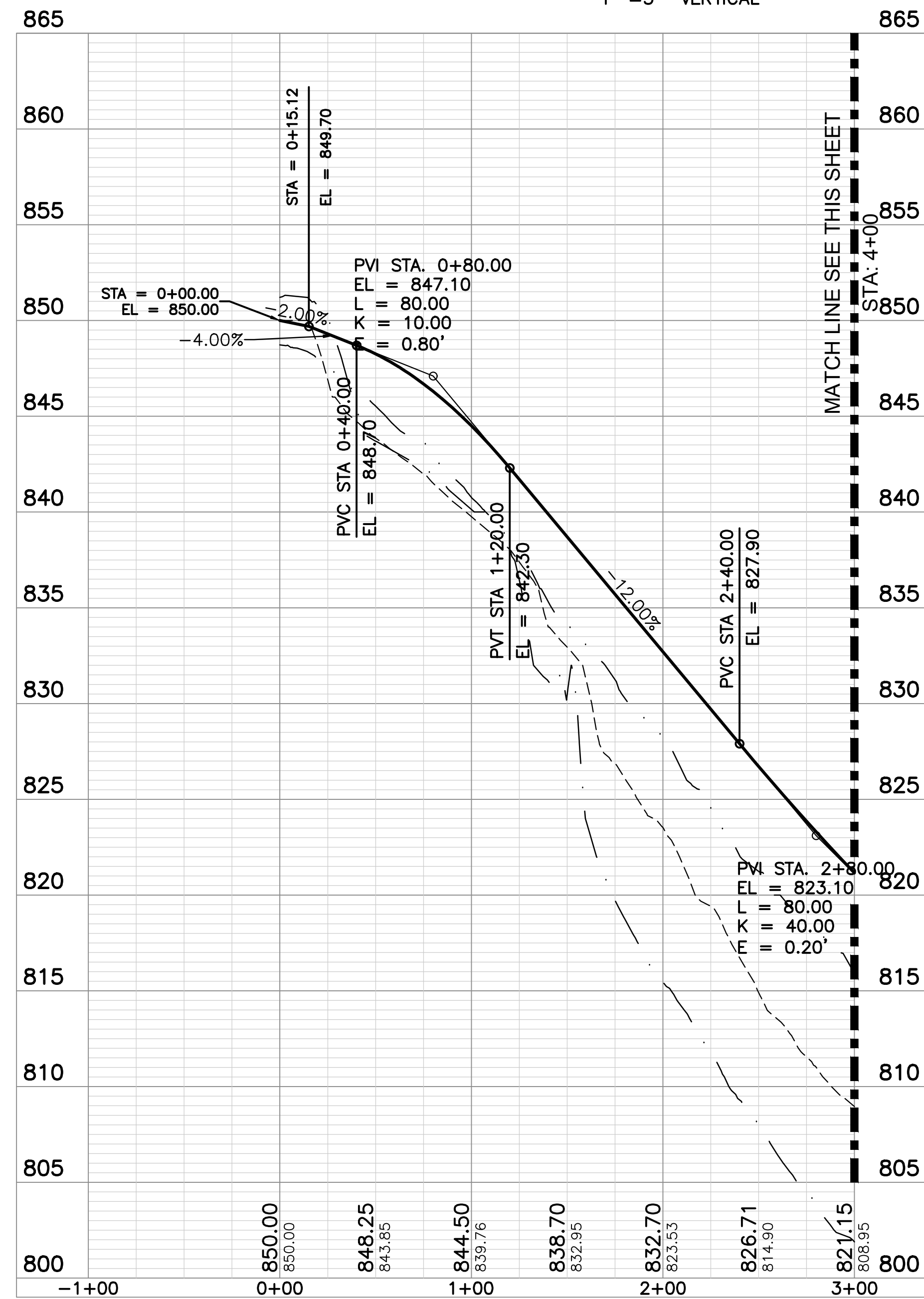
Nashville - Murfreesboro - Chattanooga  
ragansmith.com



SCALES:

PLAN VIEW 1" = 50'  
PROFILE VIEW 1" = 50' HORIZONTAL  
1" = 5' VERTICAL

### ROAD "A"



LEGEND	
25' LT	---
25' RT	---

# DALE RIDGE

FOR

# DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: AS SHOWN

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

## ROAD A PLAN & PROFILE

Drawing No.

# R1.0

Project No.

21-0164



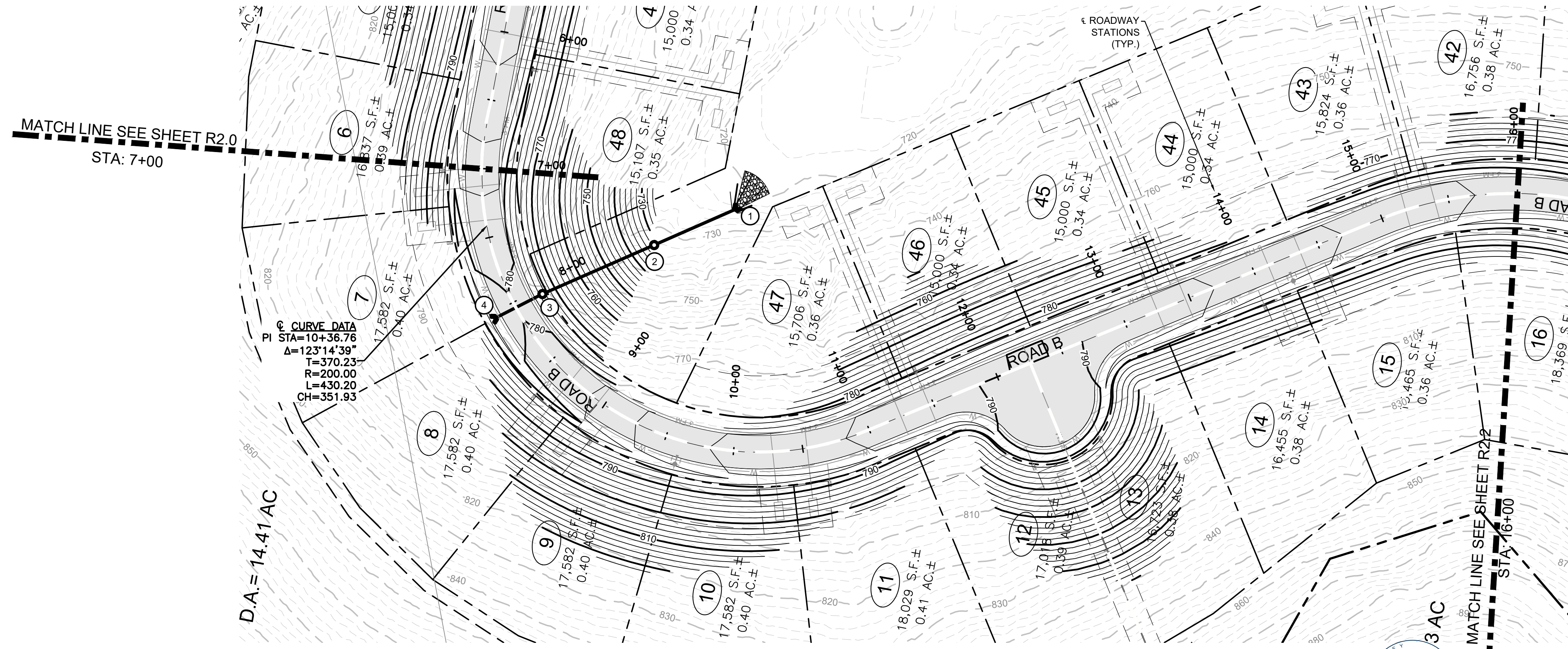
Know what's below.  
Call before you dig.





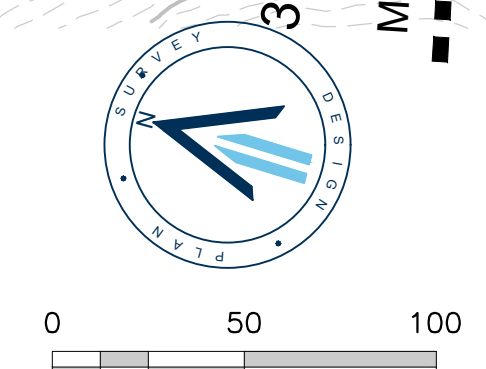
RaganSmith

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ragansmith.com

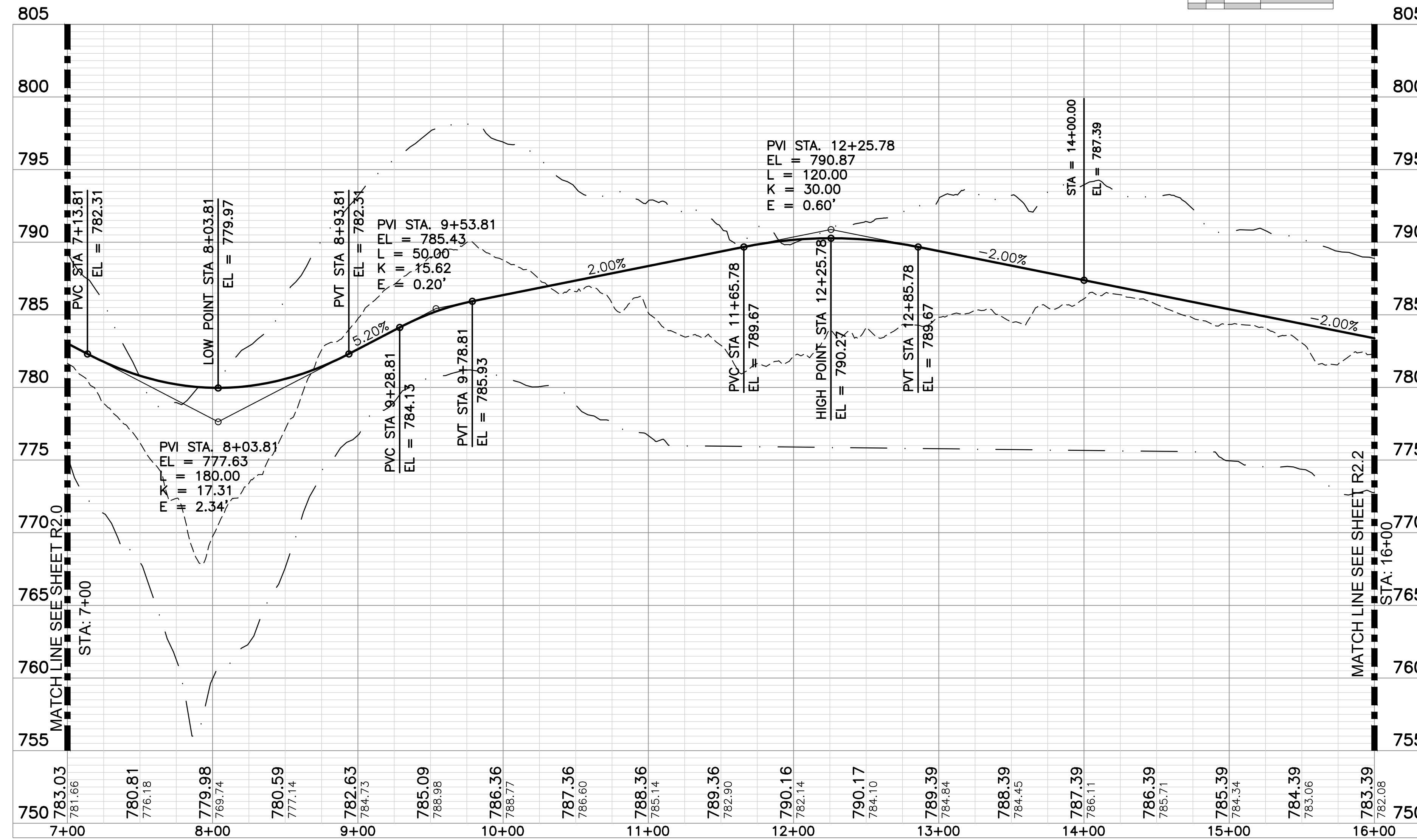


SCALES:  
PLAN VIEW 1" = 50'  
PROFILE VIEW 1" = 50' HORIZONTAL  
1" = 5' VERTICAL

### ROAD "B"



LEGEND	
25' LT	---
25' RT	---



DALE RIDGE  
FOR  
DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: #=#=#  
Date: 2021.12.10  
Approved By: JFV

Revisions:	

Drawing Title:  
ROAD B PLAN &  
PROFILE

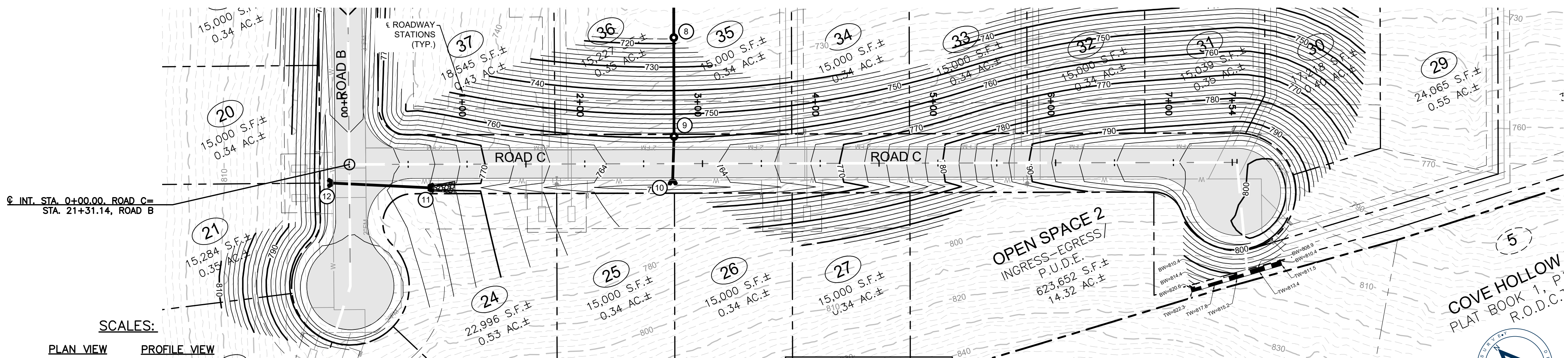
Drawing No.  
R2.1

Project No.  
21-0164

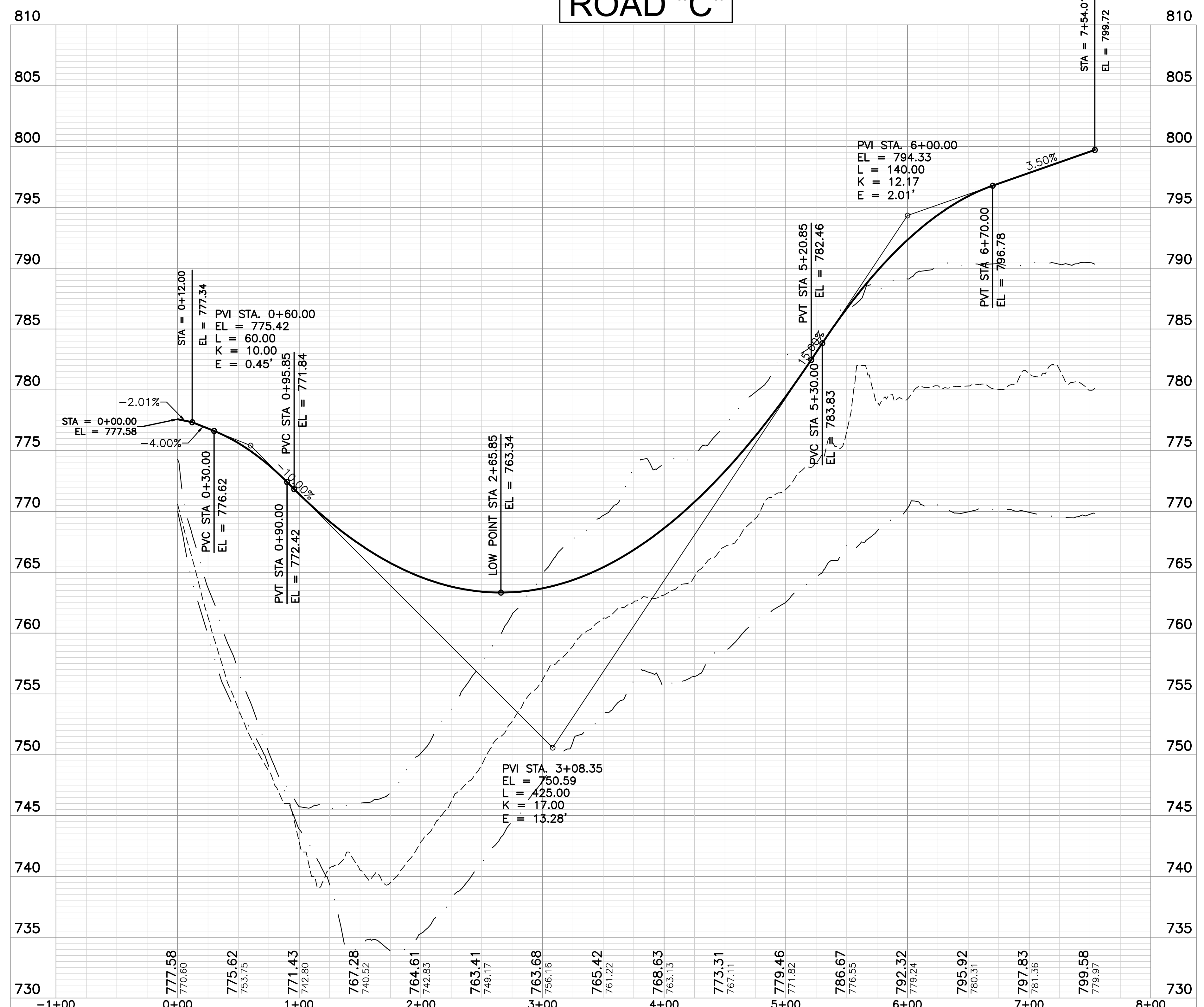


010.DWG/CAD, ENGINEER/PLANNING AND DESIGN/ROADS/2021  
PLOTTER BY JAY WATSON ON 12/20/21 10:20 AM. LAST UPDATED BY WORME ON 12/20/21 9:11 AM





SCALES:  
 PLAN VIEW 1" = 50'  
 PROFILE VIEW 1" = 50' HORIZONTAL  
 1" = 5' VERTICAL



LEGEND  
 25' LT  
 25' RT

DALE RIDGE  
 FOR  
 DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: AS SHOWN  
 Date: 2021.12.10  
 Approved By: JFV  
 Revisions:

Drawing Title:  
 ROAD C PLAN &  
 PROFILE

Drawing No.  
 R3.0

Project No.  
 21-0164

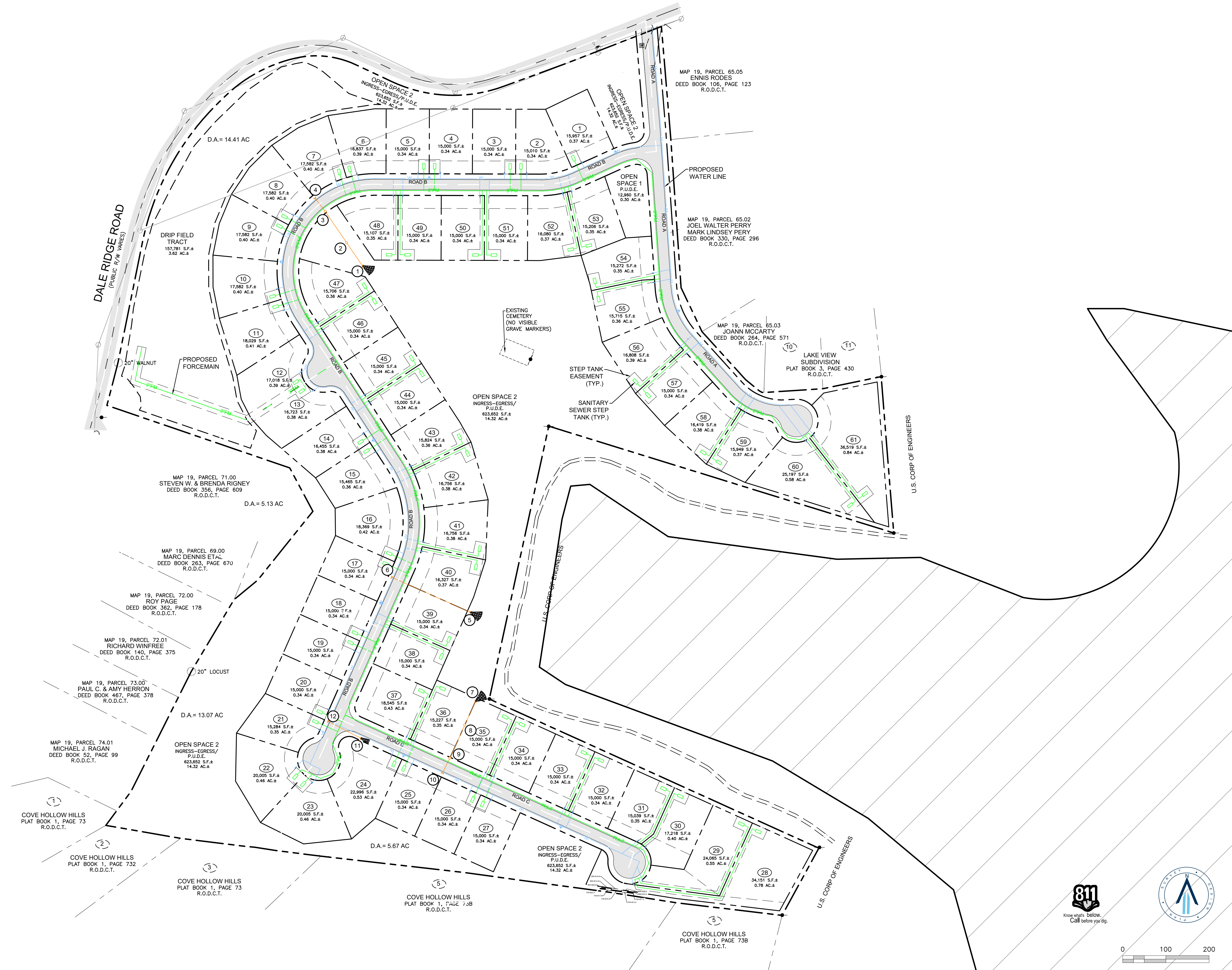


02/10/2021 09:00 AM: RAGANSMITH.COM \PROJECTS\2021\21-0164\ROAD C PLAN & PROFILE.dwg  
 PLOTTED BY JAV WARTON ON 12/20/21 10:00 AM. LAST UPDATED BY WORMS ON 12/20/21 10:00 AM



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Nashville - Murfreesboro - Chattanooga  
ragansmith.com



**DALE RIDGE**  
FOR  
**DAVID WILEMAN**

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: 1"=100'

Date: 2021.12.10

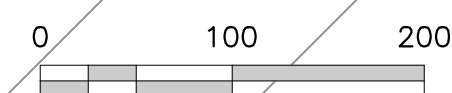
Approved By: JFV

Revisions:

Drawing Title:  
**OVERALL UTILITY**

Drawing No.  
**U1.0**

Project No.  
21-0164



0210-PLAT BOOK, ENGINEERED AS AN INSTRUMENT OF SERVICE, OVERALL UTILITY PLAN,  
 PLOTTED BY JAV, DATE PLOTTED: 12/10/2021 10:00 AM, LAST UPDATED BY: JAV, 12/10/2021 10:00 AM



RaganSmith

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MAP 19, PARCEL 65.05  
**ENNIS RODES**  
DEED BOOK 106, PAGE 123  
R.O.D.C.T.

MAP 19, PARCEL 65.02  
**JOEL WALTER PERRY  
MARK LINDSEY PERRY**  
DEED BOOK 330, PAGE 296  
R.O.D.C.T.



**DALE RIDGE**  
FOR  
**DAVID WILEMAN**

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: 1"=50'

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

**ENLARGED UTILITY**

Drawing No.

**U1.1**

Project No.

21-0164



0 50 100

02/19/2023 10:00 AM... LAST UPDATED BY: WORMS ON 12/20/21 11:34 AM



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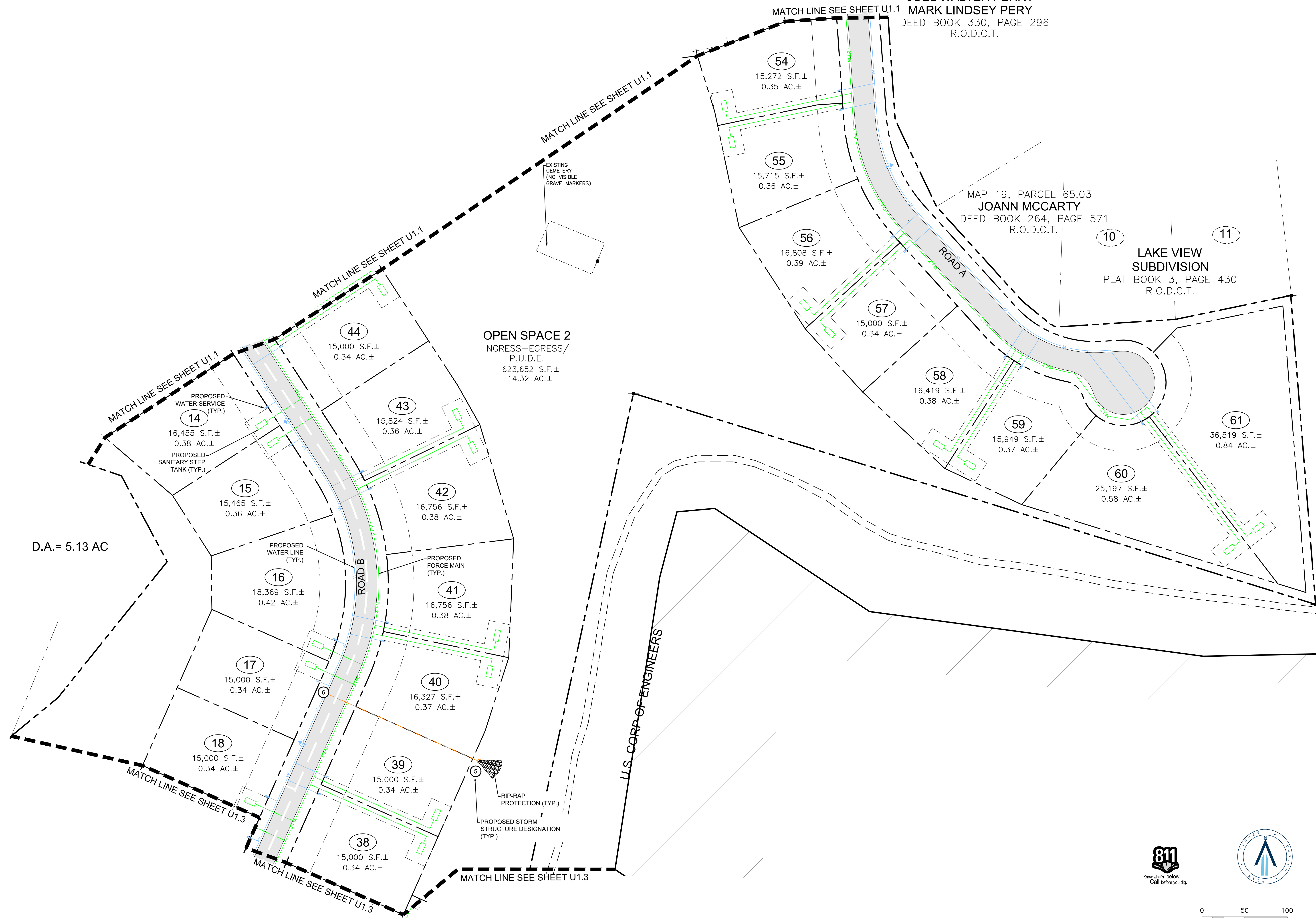
MAP 19, PARCEL 65.02  
JOEL WALTER PERRY  
MARK LINDSEY PERY  
DEED BOOK 330, PAGE 296  
R.O.D.C.T.

MAP 19, PARCEL 65.03  
JOANN MCCARTY  
DEED BOOK 264, PAGE 571  
R.O.D.C.T.

LAKE VIEW  
SUBDIVISION  
PLAT BOOK 3, PAGE 430  
R.O.D.C.T.

OPEN SPACE 2  
INGRESS-EGRESS/  
P.U.D.E.  
623,652 S.F.±  
14.32 AC.±

D.A. = 5.13 AC



DALE RIDGE  
FOR  
DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE

Scale: 1"=50'

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

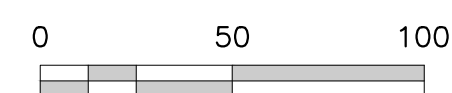
ENLARGED UTILITY

Drawing No.

U1.2

Project No.

21-0164



02/19/2024 10:00 AM... LAST UPDATED BY: MORGAN SWAN 12/20/21 11:34 AM



RaganSmith

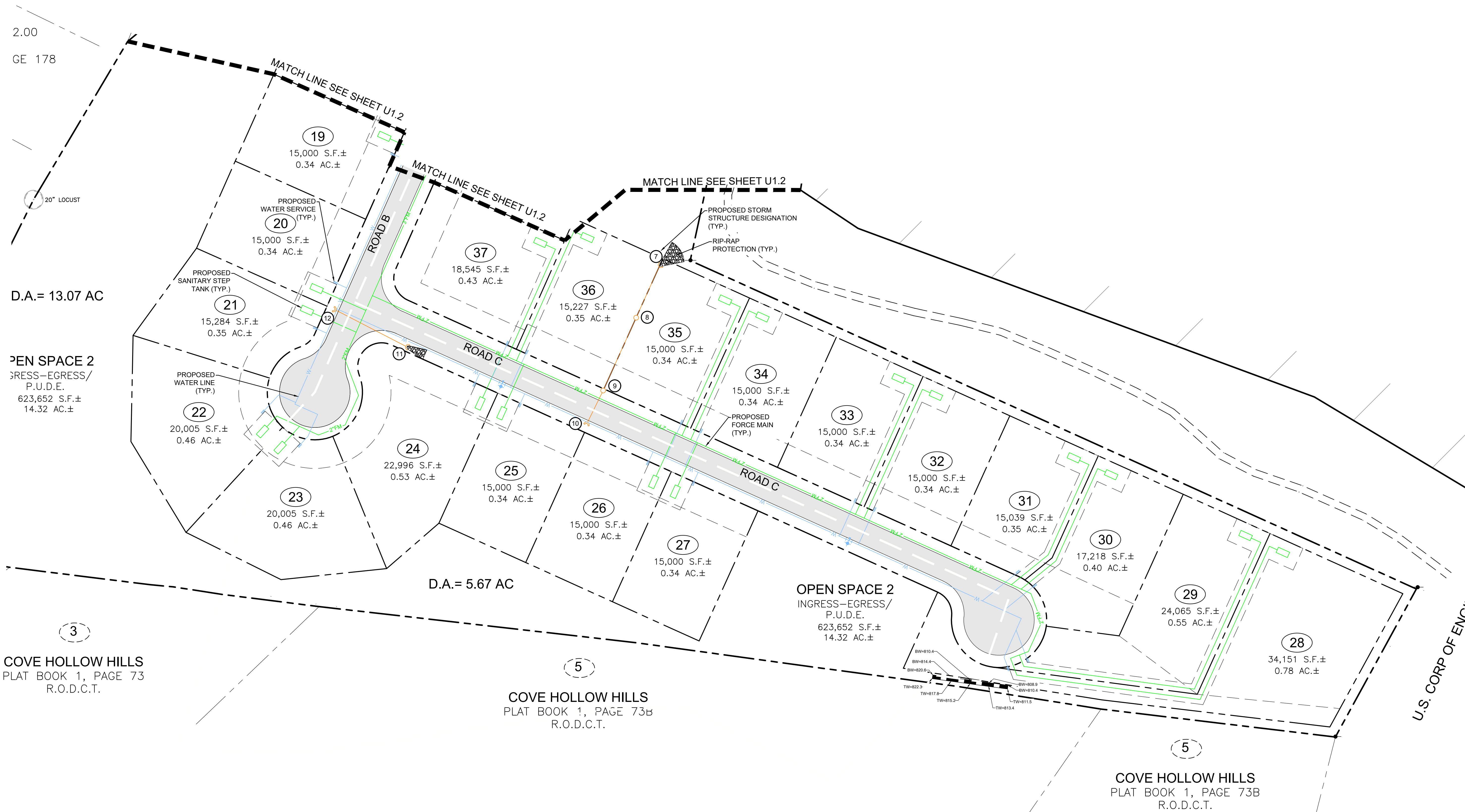
Nashville - Murfreesboro - Chattanooga  
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DALE RIDGE

FOR

DAVID WILEMAN

15TH CIVIL DISTRICT, TOWN OF LIBERTY, DEKALB COUNTY, TENNESSEE



Scale: 1"=50'

Date: 2021.12.10

Approved By: JFV

Revisions:

Drawing Title:

ENLARGED UTILITY

Drawing No.

U1.3

Project No.

21-0164

02/10/2021 11:13 AM  
C:\PROJECTS\21-0164\DWG\U1.3.dwg  
PLOT BY JAY WATSON 12/10/2021 10:07 PM  
LAST UPDATED BY WJONES ON 12/10/21 11:13 AM