



Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Certification

OFFICIAL STATE USE ONLY	Site #:	Permit #:	NR2304.078
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Section 1. Applicant Information *(individual responsible for site, signs certification below)*

Applicant Name (company or individual): 5D Land LLC		SOS #: 001186874		Status:
Primary Contact/Signatory: Jeremy Riggs		Signatory's Title or Position: Developer		
Mailing Address: 880-B GreenLea Boulevard		City: Gallatin	State: TN	Zip: 37066
Phone: 615-961-2116	Fax:	E-mail: jrbuilders01@gmail.com		

Section 2. Alternate Contact/Consultant Information *(a consultant is not required)*

Alternate Contact Name: Andy Leath				
Company: GreenLID Design		Title or Position: Engineer		
Mailing Address: 114B West Main Street		City: Gallatin	State: TN	Zip: 37066
Phone: 615-230-7269	Fax:	E-mail: office@greenliddesign.com		

Section 3. Fee *(Application will be incomplete until fee is received)*

No Fee Fee Submitted with Application Amount Submitted: \$ 500.00

Current application fee schedules can be found at the Division of Water Resources webpage at:
<https://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-.html>
 or by calling (615) 532-0625. Please make checks payable to "Treasurer, State of Tennessee".

Billing Contact Name (if different from Applicant): Name: Andy Leath Email: office@greenliddesign.com

Address: 114 West Main Street, Suite B, Gallatin, TN 37066 Phone: 615-230-7269

Section 4. Project Details *(fill in information and check appropriate boxes)*

Site or Project Name: Pleasant Grove Farms - Utility Crossing Reach 3		Nearest City, Town or Major Landmark: Westmoreland, TN		
Street Address or Location (include Zip): Pleasant Grove Rd, Westmoreland, TN 37186				
County(ies): Sumner County		MS4 Jurisdiction: Sumner County	Latitude (dd.dddd): 36.5783	
			Longitude (dd.dddd): -86.2499	
Resource Proposed for Alteration: <input checked="" type="checkbox"/> Stream / River <input type="checkbox"/> Wetland <input type="checkbox"/> Reservoir				
Name of Water Resource (for more information, access http://tdeconline.tn.gov/dwr): Misc. Tributary Little Trammel Creek				
Brief Project Description (a more detailed description is required under Section 8): Project will consist of the installation of a new sewer force main across existing stream				
Does the proposed activity require approval from the U.S. Army Corps of Engineers, the Tennessee Valley Authority, or any other federal, state, or local government agency? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
If Yes, provide the permit reference numbers:				
Is the proposed activity associated with a larger common plan of development: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
If Yes, submit site plans and identify the location and overall scope of the common plan of development.				
Plans attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
If applicable, indicate any other federal, state, or local permits that are associated with the overall project site (common plan of development) that have been obtained in the past (e.g., construction general permit and/or other ARAP):				

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

Section 5. Project Schedule <i>(fill in information and check appropriate boxes)</i>	
Proposed Start Date: March 2023	Estimated End Date: March 2024
Is any portion of the activity complete now? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
If yes, describe the extent of the completed portion:	

The required information in Sections 6-11 must be submitted on a separate sheet(s) and submitted in the same numbered format as presented below. If any question is not applicable, state the reason why it is not applicable.

Section 6. Description		Attached	
		Yes	No
6.1	A narrative description of the scope of the project	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.2	USGS topographic map indicating the exact location of the project <i>(can be a photographic copy)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.3	Photographs of the resource(s) proposed for alteration with location description <i>(photo locations should be noted on map)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.4	A narrative description of the existing stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.5	A narrative description of the proposed stream and/or wetland characteristics including, but not limited to, dimensions (e.g., depth, length, average width), substrate and riparian vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6.6	In the case of wetlands, include a wetland delineation with delineation forms and site map denoting location of data points	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6.7	A copy of all hydrologic or jurisdictional determination documents issued for water resources on the project site	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Section 7. Project Rationale	Attached	
	Yes	No
Descr be the need for the proposed activity, including, but not limited to, the purpose, alternatives considered, and what will be done to avoid or minimize impacts to water resources	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 8. Technical Information		Attached	
		Yes	No
8.1	Detailed plans, specifications, blueprints, or legible sketches of present site conditions and the proposed activity. Plans must be 8.5 x 11 inches. Additional larger plans may also be submitted to aid in application review. The detailed plans should be superimposed on existing and new conditions <i>(e.g., stream cross sections where road crossings are proposed)</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.2	For both the proposed activity and compensatory mitigation, provide a discussion regarding the sequencing of events and construction methods	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8.3	Depiction and narrative on the location and type of erosion prevention and sediment control (EPSC) measures for the proposed alterations	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Section 9. Water Resources Degradation (degree of proposed impact) *Note that in most cases, activities that exceed the scope of the General Permit limitations are considered greater than de minimis degradation to water quality.*

Please provide your basis for concluding the proposed activity will cause one of the following levels of water quality

degradation: a. *De minimis degradation*

b. *Greater than de minimis degradation (if greater than de minimis complete Sections 10-11)*

For information and guidance on the definition of de minimis and degradation, refer to the Antidegradation Statement in Chapter 0400-40-03-.06 of the Tennessee Water Quality Criteria Rule at: <http://publications.tnsosfiles.com/rules/0400/0400-40/0400-40.htm>

For information on specifics on what General Permits can cover, refer to the Natural Resources Unit webpage at:

<http://www.tn.gov/environment/permit-permits/water-permits/1/aquatic-resource-alteration-permit--arap-/permit-water-aquatic-resource-alteration-list-of-general-permits.html>

Application for Aquatic Resource Alteration Permit (ARAP) & State §401 Water Quality Permit

Section 10. Detailed Alternatives Analysis		Attached	
		Yes	No
10.1	Analyze all reasonable alternatives and describe the level of degradation caused by each of the feasible alternatives	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.2	Discuss the social and economic consequences of each alternative	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10.3	Demonstrate that the degradation associated with the preferred alternative will not violate water quality criteria for uses designated in the receiving waters, and is necessary to accommodate important economic and social development in the area	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Section 11. Compensatory Mitigation		Attached	
		Yes	No
11.1	A detailed discussion of the proposed compensatory mitigation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11.2	Describe how the compensatory mitigation would result in no net loss of resource value	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11.3	Provide a detailed monitoring plan for the compensatory mitigation site	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11.4	Describe the long-term protection measures for the compensatory mitigation site (e.g., deed restrictions, conservation easement)	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Certification and Signature			
<p>An application submitted by a corporation must be signed by a principal executive officer; from a partnership or proprietorship, by the partner or proprietor respectively; from a municipal, state, federal or other public agency or facility, the application must be signed by either a principal executive officer, ranking elected official, or other duly authorized employee.</p> <p><i>I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information 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. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.</i></p>			
 Printed Name	 Official Title	 Signature	 Date

Submitting the form and obtaining more information. Note that this form must be signed by the principal executive officer, partner or proprietor, or a ranking elected official in the case of a municipality; for details see **Certification and Signature** statement above. For more information, contact your local EFO at the toll-free number 1-888-891-8332 (TDEC). Submit the completed ARAP Application form (keep a copy for your records) to the appropriate EFO for the county(ies) where the ARAP activity is located, addressed to **Attention: ARAP Processing**. You may also electronically submit the complete application and all associated attachments to water.permits@tn.gov.

EFO	Street Address	Zip Code	EFO	Street Address	Zip Code
Memphis	8383 Wolf Lake Drive, Bartlett	38133-4119	Cookeville	1221 South Willow Ave.	38506
Jackson	1625 Hollywood Drive	38305-4316	Chattanooga	1301 Riverfront Pkwy., Ste. 206	37402
Nashville	711 R S Gass Boulevard	37243	Knoxville	3711 Middlebrook Pike	37921
Columbia	1421 Hampshire Pike	38401	Johnson City	2305 Silverdale Road	37601



APPLICATION FOR AQUATIC RESOURCE ALTERATION PERMIT

Pleasant Grove Farms - Utility Crossing Reach 3
Pleasant Grove Rd, Westmoreland, TN 37186
Sumner County



OWNER / DEVELOPER:

5D Land LLC

Jeremy Riggs Developer

880-B GreenLea Boulevard Gallatin TN 37066

615-961-2116 jrbuilders01@gmail.com

SOS NUMBER: 001186874

PREPARED BY:

GreenLID Design

114 West Main Street, Suite B, Gallatin, TN 37066

TEL: 615.230.7269 | office@greenliddesign.com | greenliddesign.com



Date: 02/27/2023

ARAP COVER LETTER



February 27, 2023

Tennessee Department of Environment and Conservation
Attention: ARAP Processing
Nashville Environment Assistance Center
711 R.S. Gass Blvd.
Nashville, Tennessee 37216

**Re: General ARAP Application
Pleasant Grove Farms - Utility Crossing Reach 3
Pleasant Grove Road
Westmoreland, Sumner County, Tennessee 37186**

EFO:

We have submitted the Application for Aquatic Resource Alteration Permit for the above noted project. This will require open trenching and installation of two 8" gravity sewer mains, one 8" water main, and an 18" RCP culvert under a tributary to Little Trammel Creek. Little Trammel Creek is not considered exceptional or impaired.

The required fee of \$500.00 is attached.

If our office can be of further assistance to you on this project, please contact us at your convenience.

Sincerely,

A handwritten signature in black ink, appearing to read "John A. Leath".

John A. Leath, P.E.
GreenLID Design

ARAP NARRATIVE

Section 6: Project Description

6.1

This project consists of the construction of 74 residential dwellings, one family detached, with all required appurtenances on 142.21 ± acres of land along Pleasant Grove Road in Westmoreland, TN. The ARAP is required for a 8" sewer force main that is crossing an existing stream.

6.2

Provided as an attachment to this submittal.

6.3

Provided as an attachment to this submittal.

6.4

Little Trammel Creek has been assessed by TDEC's dataviewers online and is not impaired. At the proposed location of the sewer force main crossing, the stream was measured to be approximately 2 feet wide. A depth of approximately 2 feet deep from the bottom of bank to the top of bank. Near the proposed stream crossing the tributary's bank is close to a 1:1 slope.

6.5

The overall characteristics of the stream shall not be altered during the installation of the sewer force main crossing. The 8' force main shall be installed approximately 36" below the existing streambed using an open trench. The overall drainage and stream characteristics will not change from pre- to post-development.

6.6

This area is not listed as a wetland.

6.7

A hydrologic determination has been provided.

Section 7: Project Rationale

7.0

The purpose of this activity is to extend sewer to our proposed development. Approximately 1,940 LF of 8" sewer force main. The proposed sewer main crossing will be installed beneath the stream bed by using an open trench.

Section 8: Technical Information

8.1

An exhibit is attached to this package.

8.2

The following is a sequence of events for the constructed stream crossing.

1. Excavate trench to install sewer force main on the dry side of the stream.
2. Backfill trench.
3. Use a sandbag assembly to divert flow to the dry side.
4. Excavate trench to install sewer force main on the side that flow was diverted from

5. Backfill trench.
6. Install NAG SC250 or equivalent on 3:1 slopes or steeper on north and south channel/stream banks.
7. All work to be done within a 24-hour period.

8.3

Erosion Prevention and Sediment Control measures are to include matting with permanent grass seed mix matting on the stream banks to allow for stabilization. Utilize Class C Rip Rap to stabilize slopes on any finished grades or stream banks that are steeper than or equal to 3:1 slope, and Filtrexx Silt Sox to prevent soil eroding into the stream.

Section 9: Water Resources Degradation

9.0

Construction activities will not cause measurable degradation in water quality.

Section 10: Detailed Alternative Analysis

10.0

N/A

Section 11: Compensatory Mitigation

11.0

N/A



STREAM CROSSING - MISC. TRIB. TO LITTLE TRAMMEL CREEK

SCALE: 1" = 50'

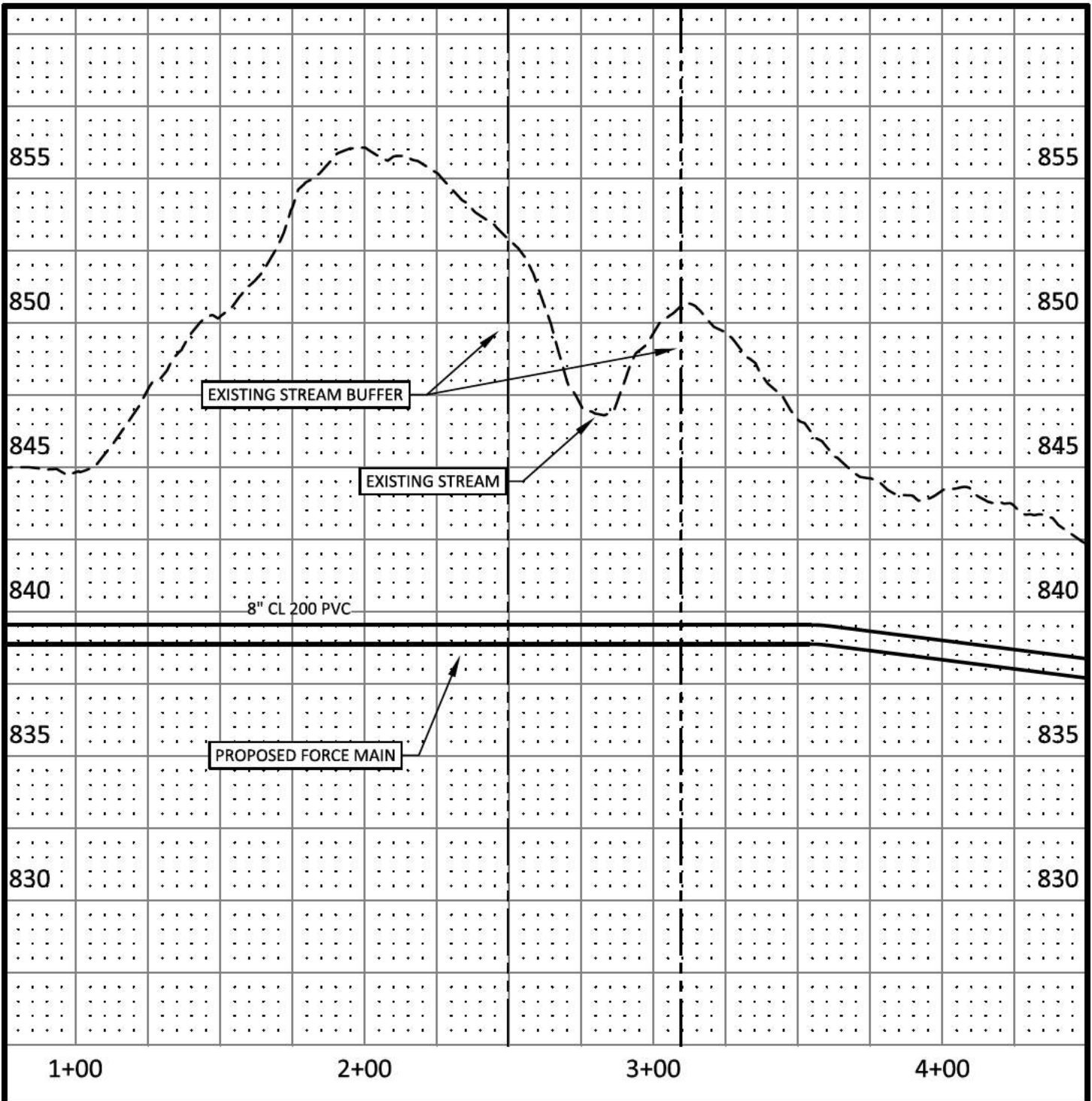


**GreenLID
Design**

114 B West Main Street
Gallatin, TN 37066
615-230-7269
andy.leath@greenliddesign.com

PLEASANT GROVE FARMS
SEWER FORCE MAIN CROSSING
PLEASANT GROVE ROAD
WESTMORELAND
SUMNER COUNTY, TENNESSEE

DATE: FEBRUARY 23, 2023 JOB #21.112G SHEET 1 OF 3



**GreenLID
Design**

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andy.leath@greenliddesign.com

STREAM CROSSING - MISC. TRIB. TO LITTLE TRAMMEL CREEK

SCALE: HORZ. 1" = 50'
VERT. 1" = 5'

PLEASANT GROVE FARMS
SEWER FORCE MAIN CROSSING
PLEASANT GROVE ROAD
WESTMORELAND
SUMNER COUNTY, TENNESSEE

DATE: FEBRUARY 23, 2023 JOB #21.112G SHEET 2 OF 3

SITE LOCATION MAP

27 min (20.6 miles)

via US-31E N

Fastest route, the usual traffic



Gallatin

Tennessee 37066

↑ Head east on W Main St toward Old State Hwy 109/N Water Ave

0.6 mi

← Turn left onto E Main St

1.6 mi

↪ Turn right onto US-31E N/E Broadway/Gallatin Pike/Scottsville Pike

Continue to follow US-31E N

16.7 mi

↪ Turn right onto Pleasant Grove Rd

0.6 mi

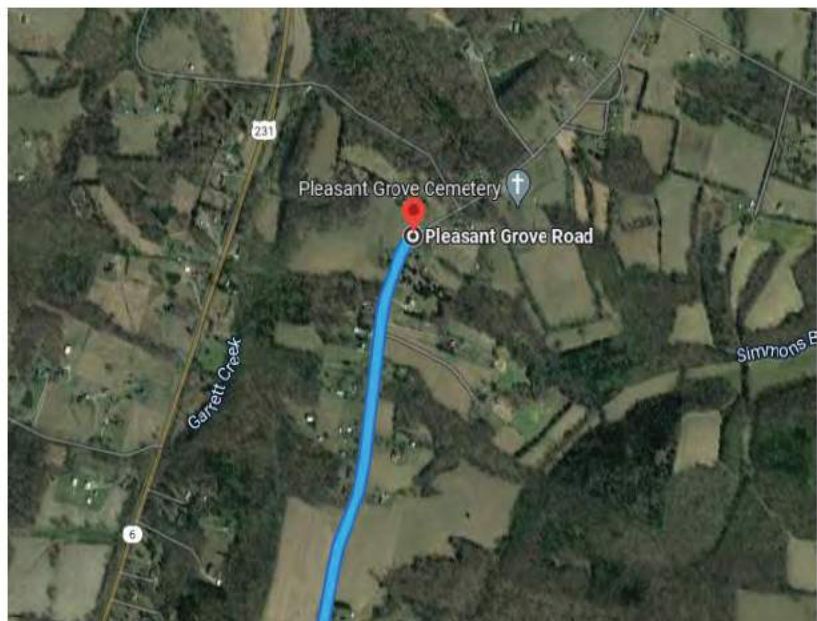
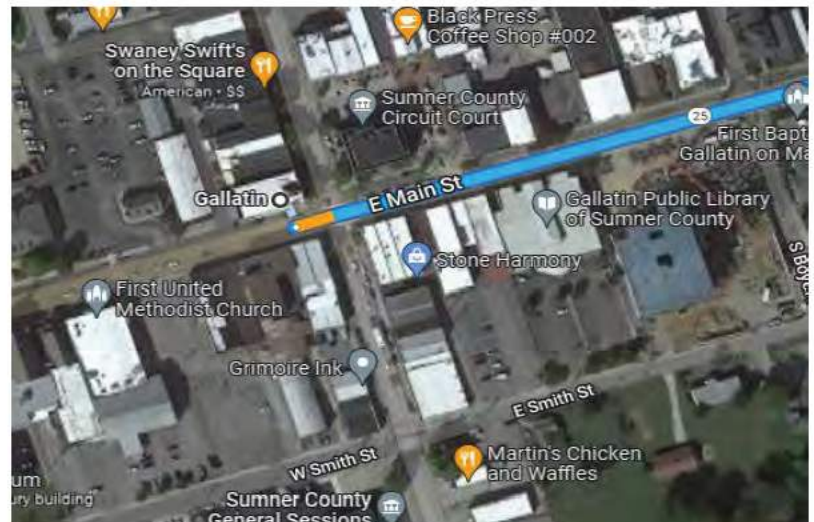
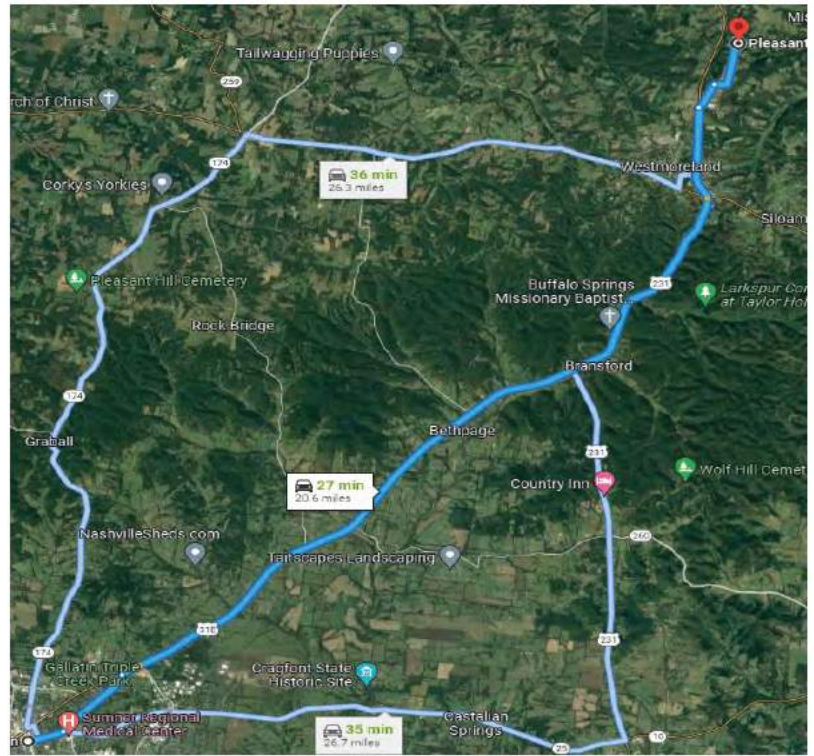
↪ Turn right to stay on Pleasant Grove Rd

1.1 mi

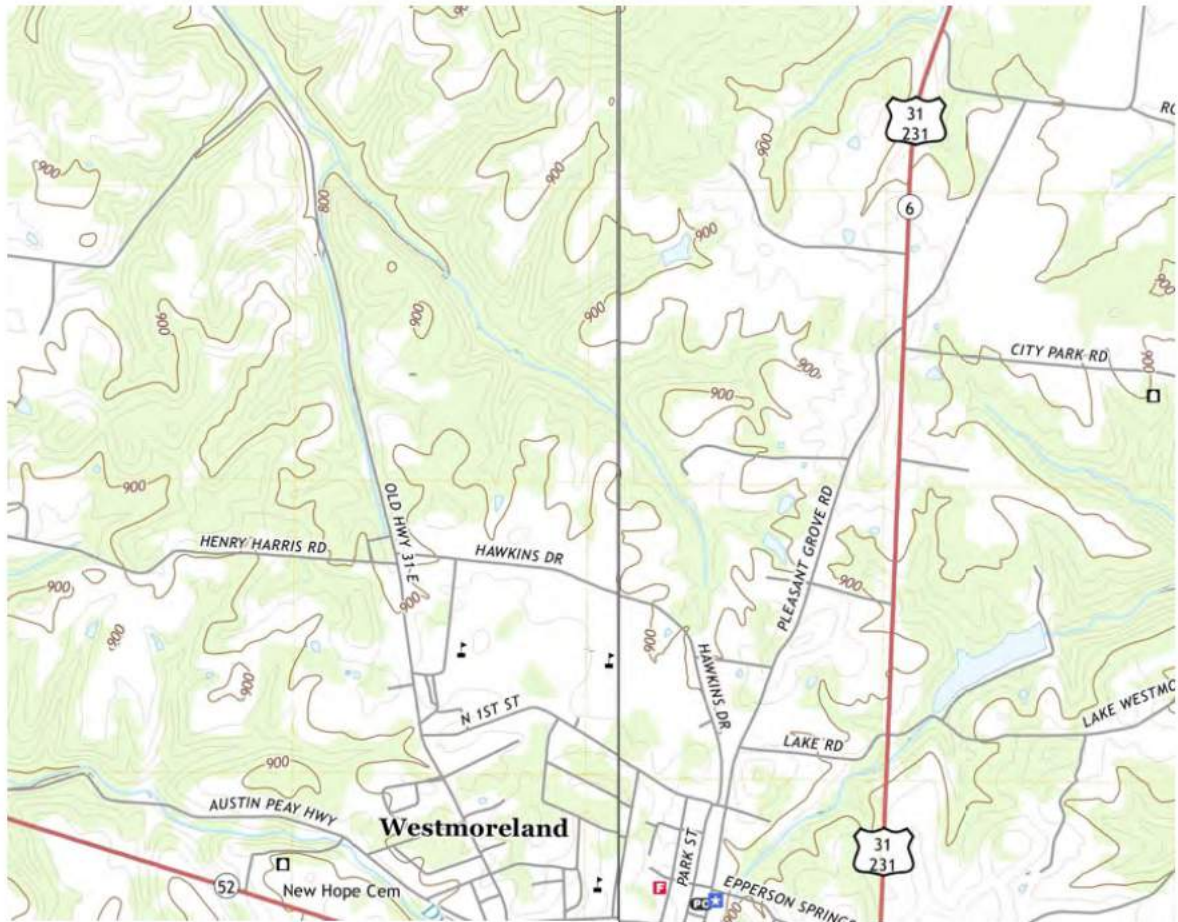
Pleasant Grove Rd

Tennessee 37186

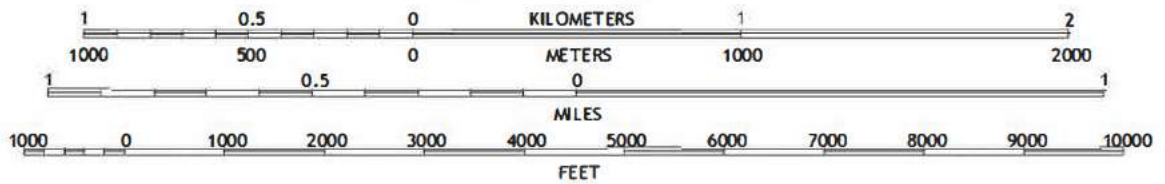
These directions are for planning purposes only. You may find that construction projects, traffic, weather, or other events may cause conditions to differ from the map results, and you should plan your route accordingly. You must obey all signs or notices regarding your route.



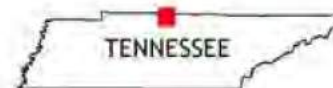
Pleasant Grove Rd • USGS MAP



SCALE 1:24 000



TURNERS STATION, TN
2019

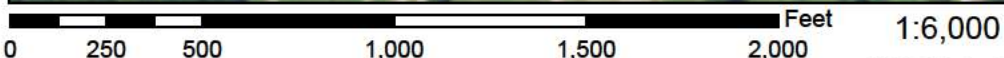


FEMA MAP

National Flood Hazard Layer FIRMMette



86°14'56"W 36°34'59"N



Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance
		17.5 Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

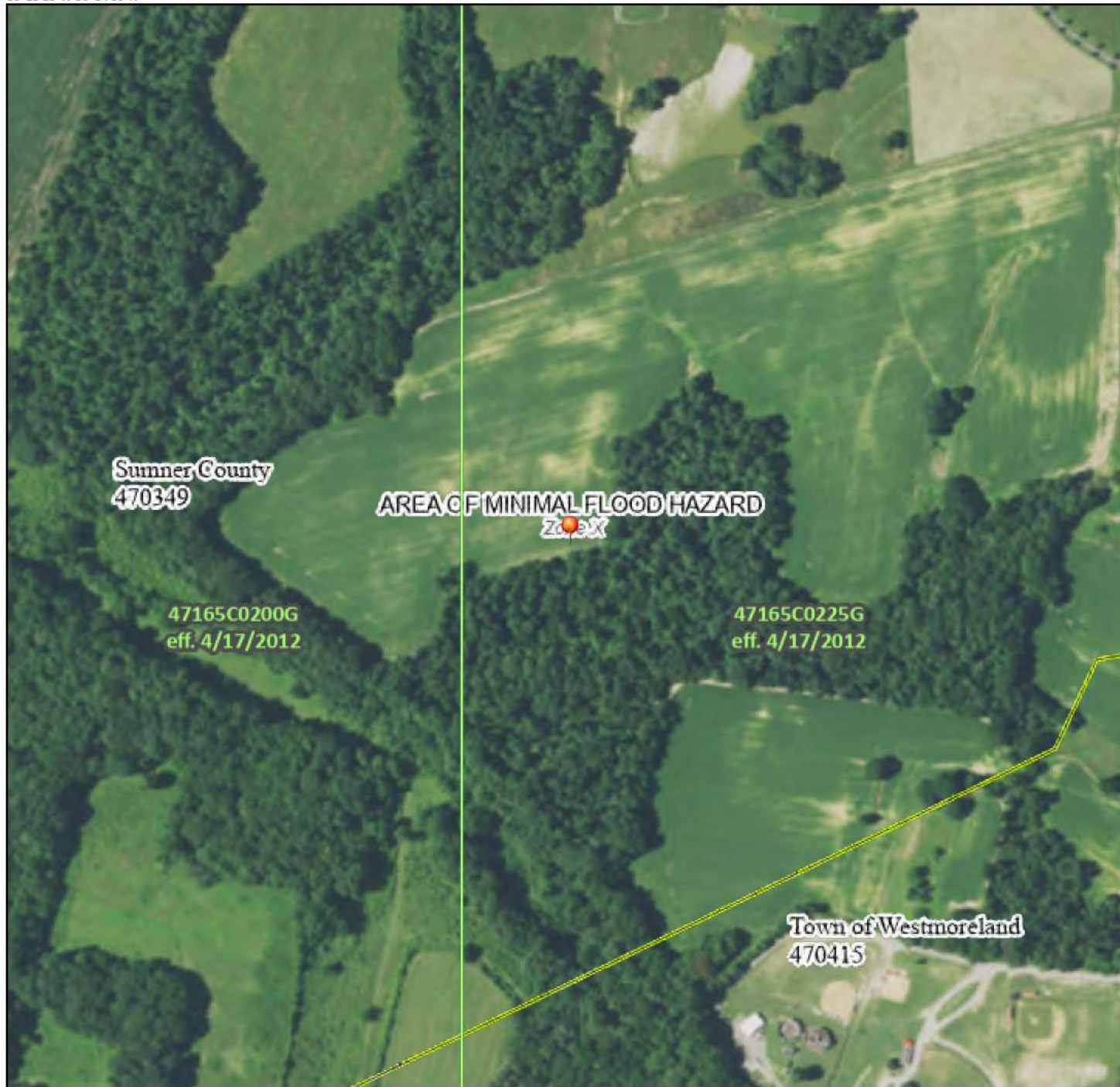
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/2/2022 at 4:21 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

National Flood Hazard Layer FIRMette



86°15'15"W 36°34'59"N



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
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		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D

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GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
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OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Profile Baseline
	Hydrographic Feature	

MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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ARAP PHOTO JOURNAL

= PICTURE NUMBER
AND APPROXIMATE
LOCATION WHEN PICTURE
WAS TAKEN, THE ARROW
INDICATES THE DIRECTION
THE CAMERA WAS AIMED.



**GreenLID
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PLEASANT GROVE FARMS
SEWER FORCE MAIN CROSSING
PLEASANT GROVE ROAD
WESTMORELAND
SUMNER COUNTY, TENNESSEE

DATE: FEBRUARY 23, 2023 JOB #21.112G SHEET 3 OF 3

PHOTOGRAPHIC JOURNAL - PLEASANT GROVE FARMS



East across bank



West across bank

PHOTOGRAPHIC JOURNAL - PLEASANT GROVE FARMS



Upstream



Downstream

SITE PLAN

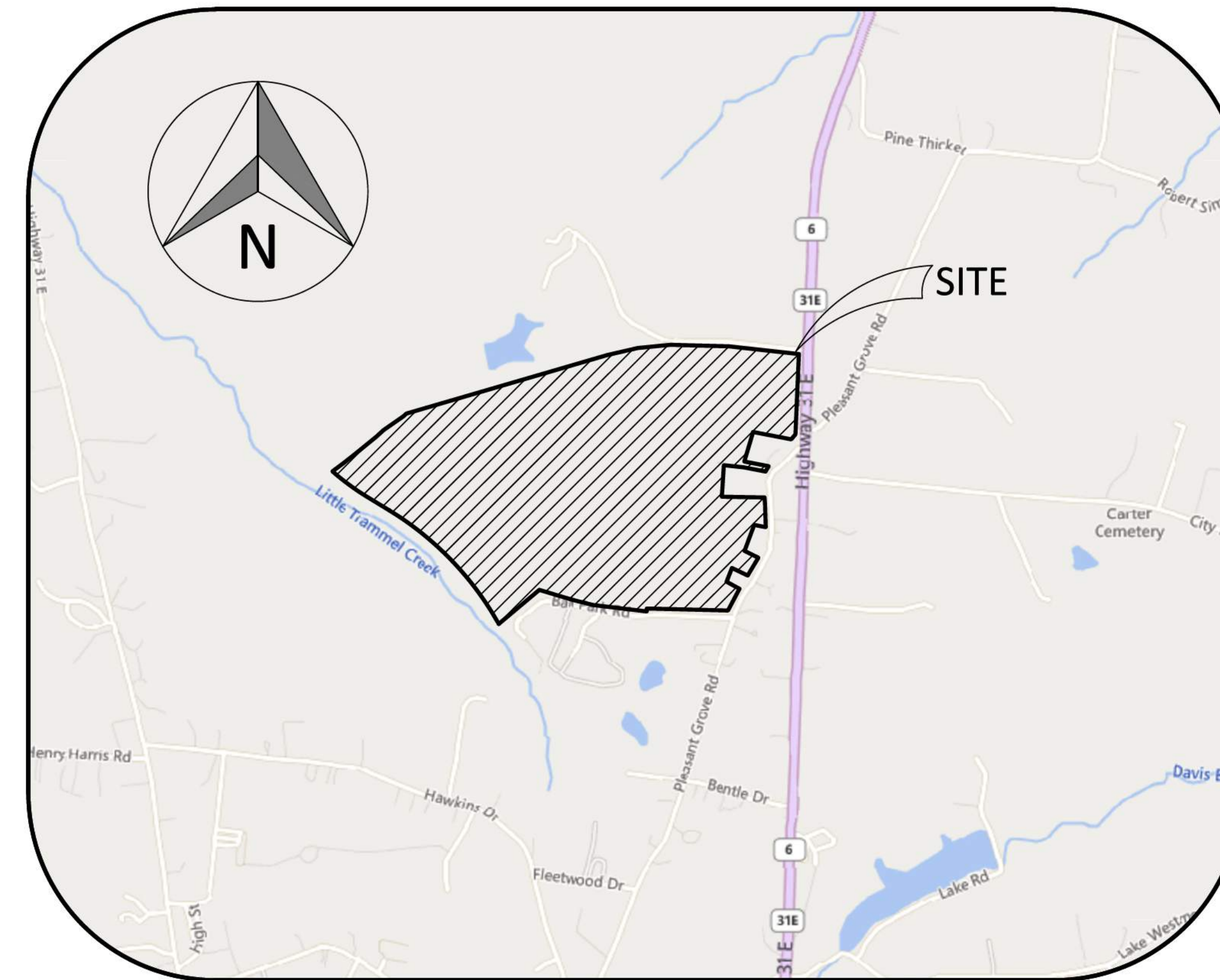
PLEASANT GROVE FARMS, PHASE 1

CONSTRUCTION PLANS

PLEASANT GROVE ROAD

CITY OF WESTMORELAND

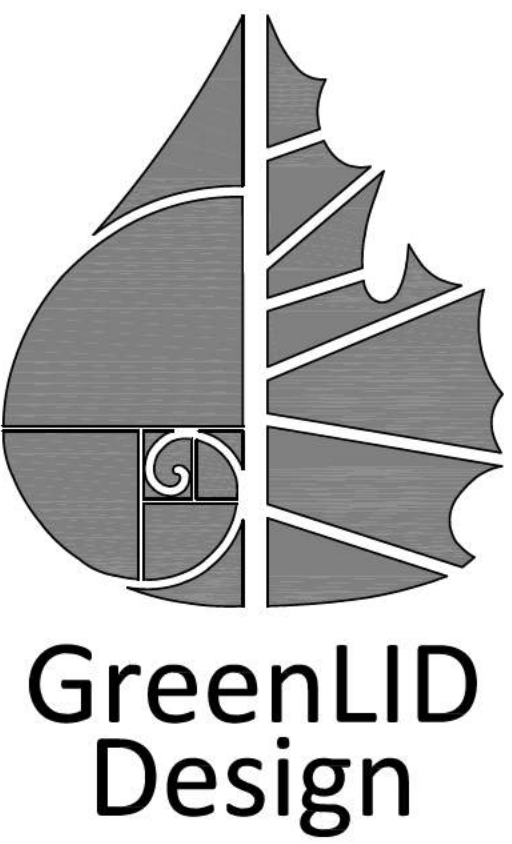
SUMNER COUNTY, TENNESSEE



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SITE LAYOUT	C 3.3
SITE LAYOUT	C 3.4
SITE LAYOUT	C 3.5
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UTILITY OWNERS			
WATER SEWER STREETS	TOWN OF WESTMORELAND 1001 PARK STREET WESTMORELAND, TN 37186 (615) 644-3582	TELEPHONE CABLE	NORTH CENTRAL TELEPHONE COOPERATIVE 5620 AUSTIN PEAY HWY WESTMORELAND, TN 37186 (615) 644-6282
ELECTRIC	TRI-COUNTY ELECTRIC 8108 AUSTIN PEAY HWY WESTMORELAND, TN 37186 (615) 644-2221	HIGHWAY	TDOT 1215-A HARTSVILLE PIKE GALLATIN, TN 37066 (615) 451-5824



114 B West Main Street
Gallatin, TN 37066
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andy.leath@greenliddesign.com



PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

PROJECT NOTES

NO.	DATE	REVISION
1	05-13-2022	PER CITY COMMENTS
2	06-16-2022	PER CITY COMMENTS
3	08-23-2022	PER CITY COMMENTS
4	10-25-2022	PER CITY COMMENTS
5	02-07-2023	PER CITY COMMENTS

SHEET NO.
C 1.1

SHEET 1 OF 47

GENERAL NOTES:

- 1. THIS CONSTRUCTION PROJECT SHALL AT ALL TIMES AND IN ALL SITUATIONS PROCEED IN A MANNER CONSISTENT WITH THE CITY OF WESTMORELAND SUBDIVISION REGULATIONS...
2. THE CONTRACTOR SHALL KEEP A COPY OF THE CURRENT CITY OF WESTMORELAND SUBDIVISION REGULATIONS...
3. THE CONTRACTOR SHALL CHECK AND VERIFY ALL ELEVATIONS, DISTANCES, AND DIRECTIONS BEFORE STARTING WORK ON ANY SEGMENT OF THE PROJECT...
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SURVEYING REFERENCE POINTS, HUBS, AND LOT CORNERS...
5. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY NOTICES, OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES ASSOCIATED WITH SUCCESSFULLY COMPLETING THE CONSTRUCTION PROCESS...
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THIS OR ADJACENT PROPERTY...
7. ANY DAMAGE TO IMPROVEMENTS PRIOR TO FINAL PROJECT ACCEPTANCE BY THE CITY OF WESTMORELAND OR THE OWNER SHALL BE REPAIRED OR REPLACED AS NECESSARY...
8. LOCATION OF EXISTING UTILITIES INDICATED ON THESE PLANS MUST BE CONFIRMED BY THE CONTRACTOR PRIOR TO CONSTRUCTION IN THE VICINITY OF ANY SUCH UTILITIES...
9. EROSION CONTROL SHALL BE MAINTAINED THROUGHOUT THE PROJECT IN ACCORDANCE WITH THE TENNESSEE GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES...
10. BOUNDARY AND TOPOGRAPHIC INFORMATION PROVIDED BY RICHARD D. GRAVES LAND SURVEYING...
11. A TITLE SEARCH NOR TITLE POLICY WAS PROVIDED. THEREFORE, THIS SURVEY IS SUBMITTED TO THE FINDINGS OF AN ACCURATE TITLE SEARCH...
12. ELEVATIONS AND CONTOURS WERE DERIVED USING DIGITAL TERRAIN MODELING. CONTOUR INTERVALS ARE ONE (1) FOOT...
13. BEARINGS SHOWN ARE BASED ON TENNESSEE STATE PLAN COORDINATE SYSTEM (NAD 1983)...
14. A REVIEW OF THE F.E.M.A. FLOOD INSURANCE RATE MAP, COMMUNITY PANEL NO. 47155C02006 & 47155C02256, EFFECTIVE DATE APRIL 17, 2012, SHOWS THIS PROPERTY NOT TO BE IN ZONE X AND NOT A SPECIAL FLOOD HAZARD AREA...
15. SUBSURFACE AND/OR ENVIRONMENTAL CONDITIONS WERE NOT EXAMINED OR CONSIDERED AS A PART OF THIS SITE PLAN...
16. ALL BUILDINGS, SURFACE IMPROVEMENTS, AND SUBSURFACE IMPROVEMENTS ON AND ADJACENT TO THIS SITE ARE NOT NECESSARILY SHOWN HEREON...
17. NO GEOTECHNICAL ENGINEERING REPORT WAS PROVIDED FOR THE PREPARATION OF THIS SITE PLAN...
18. PERFORMANCE STANDARD COMPLIANCE ALL CONSTRUCTION AND USE OF THE PROPOSED FACILITY TO MEET THE APPLICABLE PERFORMANCE STANDARDS AS SET FORTH IN THE CITY OF WESTMORELAND ZONING ORDINANCE, SECTION 13.02...
19. ADDITIONAL DESIGN STANDARDS THIS DEVELOPMENT SHALL BE DESIGNED AND DEVELOPED TO COMPLY WITH THE STANDARDS OF THE CITY OF WESTMORELAND ZONING ORDINANCE...
20. INDUSTRIAL PRETREATMENT THE PROPOSED PROJECT SHALL COMPLY WITH ALL APPLICABLE CROSS-CONNECTION CONTROL AND SEWER USE REGULATIONS...
21. SIGNAGE NO SIGNAGE IS BEING PROPOSED AT THIS TIME. SIGNAGE WILL BE PROPOSED AT A LATER DATE WITH FMPD AND A SIGNAGE PLAN MUST BE SUBMITTED, REVIEWED, AND APPROVED PRIOR TO INSTALLATION...
22. WASTE COLLECTION THIS DEVELOPMENT WILL UTILIZE THE CITY OF WESTMORELAND TRASH WASTE DISPOSAL SERVICE...
23. PHOTOMETRIC PLAN OUTDOOR LIGHTING SHALL COMPLY WITH THE CITY OF WESTMORELAND ZONING ORDINANCE...
24. ARCHITECTURE

PAVING AND DRAINAGE NOTES:

- 1. DRAINAGE SYSTEM RIP-RAP SHALL BE PLACED IN SUCH A MANNER AS TO ACHIEVE MAXIMUM INTERLOCKING TIGHTNESS.
2. DURING CONSTRUCTION EXPOSE THE MINIMUM AREA OF SOIL FOR THE MINIMUM TIME POSSIBLE. CONTROL DUST BY WATERING OR OTHER METHOD APPROVED BY THE CITY OF WESTMORELAND.
3. EROSION SHALL BE CONTROLLED IN ACCORDANCE WITH THE GENERAL NPDES PERMIT FOR DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES...
4. ALL STUMPS, LARGE ROCK, CONCRETE, SCRAP MATERIALS, TRASH AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR...
5. COMPACTION REQUIREMENTS FOR ROADWAYS AND PAVEMENT - ALL FILL MATERIAL TO BE PLACED EVENLY AND IN A UNIFORM MANNER AT A MAXIMUM OF 8" LIFTS...
6. PROJECT BENCHMARK, AS SHOWN ON PLANS
7. ALL DRAINAGE PIPE BELOW ROADWAYS TO BE: CLASS III RCP (REINFORCED CONCRETE PIPE) WITH CLASS "B" BEDDING...
8. DRAINAGE PIPE BELOW PAVE AREAS TO BE: (1) CLASS III RCP (REINFORCED CONCRETE PIPE) WITH CLASS "B" BEDDING...
9. THE PAVING TRANSITION AT EXISTING STREETS SHALL BE SMOOTH IN BOTH HORIZONTAL AND VERTICAL ALIGNMENT, FIELD ADJUST AS NECESSARY.
10. CONTRACTOR SHALL SUBMIT A TDEC NOC AND OBTAIN A LAND DISTURBANCE PERMIT FROM THE CITY OF WESTMORELAND ENGINEERING DIVISION PRIOR TO GRADING.
11. REFER TO "GENERAL NOTES" FOR ADDITIONAL INFORMATION RELATING TO THIS CONSTRUCTION PROJECT.

UTILITY NOTES

- 1. ALL WATER MAINS SHALL BE CLASS 200, SDR-21, PVC PIPE OR CLASS 350 DUCTILE IRON PIPE. ALL WATER MAIN FITTINGS ARE MECHANICAL JOINT UNLESS NOTED OTHERWISE. MECHANICAL JOINT RESTRAINTS, MEGALUG OR EQUAL, SHALL BE REQUIRED WITH ALL MECHANICAL JOINT FITTINGS.
2. ALL WATER MAINS UNDER PROPOSED AND/OR FUTURE ROADS SHALL BE CL. 350 DUCTILE IRON.
3. ALL SANITARY SEWER MAINS SHALL BE SDR-26 PVC OR CLASS 350 DUCTILE IRON PIPE. ALL SEWER SERVICE LINES TO BE 6" DIAMETER, CONNECTING TO THE MAINS WITH A SEWER SERVICE TEE.
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSPECTIONS BY THE CITY OF WESTMORELAND AND ALL OTHER AUTHORITIES INVOLVED WITH UTILITY CONSTRUCTION INSPECTION.
5. WHETHER OR NOT INDICATED ON THE PLANS, THE CONTRACTOR SHALL UNCOVER ALL EXISTING BURIED UTILITIES (TO VERIFY CLEARANCE AND AVOID DAMAGE) PRIOR TO PROCEEDING. ALL CONFLICTS SHALL BE REPORTED TO THE ENGINEER AS DESCRIBED IN THE GENERAL NOTES.
6. MAINTAIN 30" MINIMUM COVER ON ALL WATER MAINS AND 36" COVER OVER ALL SEWER MAINS (OVER HUB MEASUREMENTS)
7. CONTRACTOR TO SEED AND MULCH ALL DISTURBED AREAS IN ACCORDANCE WITH EROSION PREVENTION AND SEDIMENT CONTROL PLANS.
8. ELEVATIONS SHOWN FOR TOP-OF-MANHOLE SHALL BE FIELD ADJUSTED AS REQUIRED TO PROVIDE THE BEST ELEVATION. PLAN ELEVATIONS ARE IN UNITS OF FEET.
9. ENGINEER SHALL SUBMIT THE CONSTRUCTION START NOTIFICATION FORM TO THE CITY OF WESTMORELAND & TDEC PRIOR TO ANY INSTALLATION OF THE WATER AND SEWER MAINS.
10. CONTRACTOR TO ADJUST EXISTING MANHOLE CASTINGS AND WATER VALVES TO FINISH ELEVATIONS.
11. A ROW EXCAVATION PERMIT WILL BE REQUIRED FROM THE CITY OF WESTMORELAND FOR ALL WORK DONE IN THE RIGHT OF WAY OF THE CITY OF WESTMORELAND.
12. NO WORK SHALL BEGIN ON THE STATE RIGHT-OF-WAY UNTIL ALL REQUIRED TDOT PERMITS ARE OBTAINED.
13. VALVES, HYDRANTS, AND FITTINGS ARE NOT SHOWN TO SCALE FOR CLARITY. ALL WORK SHALL BE PERFORMED WITHIN EXISTING EASEMENTS AND RIGHT-OF-WAYS
14. IT SHALL BE THE DEVELOPER'S RESPONSIBILITY TO OBTAIN ALL EASEMENTS AND PROPERTY REQUIRED FOR CONSTRUCTION ON BEHALF OF THE CITY OF WESTMORELAND.

STATEMENT OF FINANCIAL RESPONSIBILITY:

THE DEVELOPER, JAMES & TERESA ROARK, WILL BE FINANCIALLY RESPONSIBLE FOR THE DEVELOPMENT OF THIS PROJECT.

OWNERSHIP AND MAINTENANCE PROVISIONS:

JAMES & TERESA ROARK WILL PROVIDE MAINTENANCE OF SAID PROJECT INFRASTRUCTURE UNTIL COMPLETED. AT THAT TIME AND WITH THE ACCEPTANCE OF THE PROJECT BY THE OWNER, MAINTENANCE WILL TRANSFER PERPETUALLY TO THE OWNERS.

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 74 RESIDENTIAL DWELLINGS, ONE FAMILY DETACHED, WITH ALL REQUIRED APPURTENANCES ON 142.21 ± ACRES OF LAND.

WATER MAINS:

THIS PROJECT IS TO PROVIDE WATER SERVICE FOR 74 SINGLE FAMILY RESIDENTIAL LOTS IN PLEASANT GROVE FARM SUBDIVISION, PHASE 1. APPROXIMATELY 4,787 LF OF 8" PVC WATER MAIN WILL BE CONSTRUCTED FOR THIS PROJECT INCLUDING REQUIRED APPURTENANCES.

SEWER MAINS:

APPROXIMATELY 5,059 LF OF 8" GRAVITY SEWER AND 2,145 LF OF 8" SEWER FORCE MAIN IS CONTAINED IN THIS PHASE OF THE PROJECT.

SIGNAGE:

- 1. ALL SIGNAGE AND PAVEMENT MARKERS TO BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (CURRENT ED).
2. CONTRACTOR SHALL COORDINATE WITH CITY OF WESTMORELAND ENGINEERING DIVISION AND DEPARTMENT OF PUBLIC WORKS FOR SIGN INSTALLATION.

STREET SIGNAGE

- STOP SIGN = R 1-1
NO OUTLET = W 14-2
STREET SIGNAGE: = PER CITY OF WESTMORELAND PUBLIC WORKS, MOUNTED ON STOP SIGNS

ESTIMATED CONSTRUCTION SCHEDULE:

BEGIN: FEBRUARY 2023
END: FEBRUARY 2024

TRAFFIC VOLUME ESTIMATE:

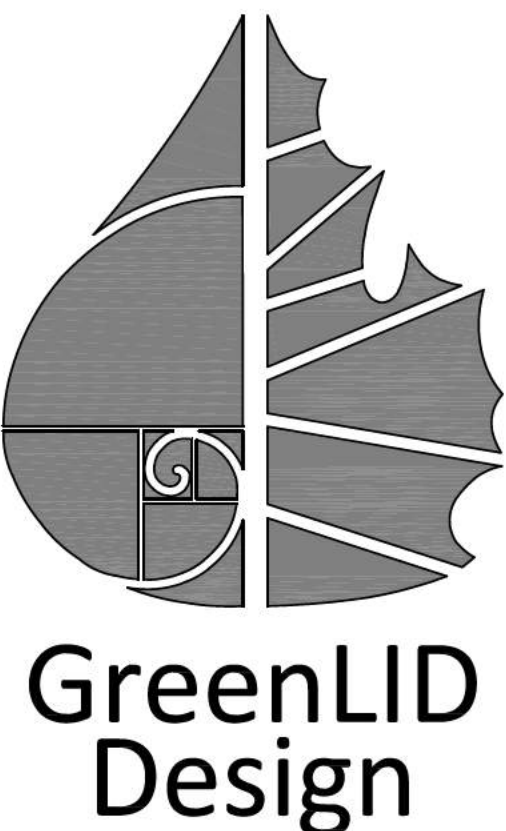
USE AS SINGLE FAMILY 10 TRIPS / RESIDENCE
10 TRIPS / RESIDENCE = 10 X 74 = 740 TRIPS
LANE WIDTH - 11'
OFF STREET PARKING 2 SP / DWELLING

Table with 2 columns: SITE DATA TABLE and OWNER/DEVELOPER. Contains details like SITE LOCATION (PLEASANT GROVE ROAD), TAX MAP (028), PARCEL (P/O 047.00, 047.04, 048.00), ACREAGE (142.21 ±), ZONE (LOW DENSITY RESIDENTIAL), and PROPOSED USE (RESIDENTIAL DWELLING).

Table titled 'R1 BULK AND AREA REGULATIONS (RESIDENTIAL)'. Columns: ORDINANCE, PROVIDED. Rows: MINIMUM LOT SIZE (10,000 SF), DENSITY PERMITTED (DETERMINED BY MINIMUM LOT SIZE), MINIMUM LOT WIDTH (80 FEET), MINIMUM REQUIRED BUILDING SETBACK (FRONT YARD 30 FEET, SIDE YARD 10 FEET, REAR YARD 30 FEET), MAXIMUM LOT COVERAGE (35%), MAXIMUM BUILDING HEIGHT (35 FEET).

Main data table with 18 columns: STREET, MANHOLE (FROM, TO), CASTING ELEVATIONS (UPPER MH, LOWER MH), LENGTH (FT), UNITS SERVED, TOTAL LOTS SERVED, AVG. FLOW (GPD, CFS), MAX FLOW (CFS), PIPE DIAM. (IN), INVERT ELEVATIONS (UPPER MH, LOWER MH), SEWER GRADE (%), SEWER FALL (FT, FPS), FULL FLOW VELOCITY (CFS), FULL FLOW CAPACITY (CFS), ACTUAL DEPTH (IN). Contains 28 rows of pipe data for various road segments.

TOTAL EQUIVALENT UNIT CALCULATIONS BELOW AS USED IN CHART ABOVE
FLOW PARAMETERS * MANNING n = 0.012
* MINIMUM PIPE SIZE = 8"
* RESIDENTIAL USE = 100 GPCD
* SINGLE FAMILY UNITS = 3.5 PEOPLE / FAMILY UNIT
* AVERAGE FLOW PER UNIT = (100 GPCD x 3.5 PEOPLE) = 350 GPD
* FS = (18 + P^1/2) / (4 + P^1/2) = 4.10
* TOTAL AVERAGE FLOW [350 GPD X 74 LOTS] = 25,900 GPD
* TOTAL PEAK FLOW = (TOTAL AVERAGE FLOW x FS) = 106,318.4 GPD = 0.219 CFS
NOTES:
* DESIGN CHARTS: MANNING AND HYDRAULIC ELEMENTS
* DESIGN IS BASED ON AN 18 HR DAY



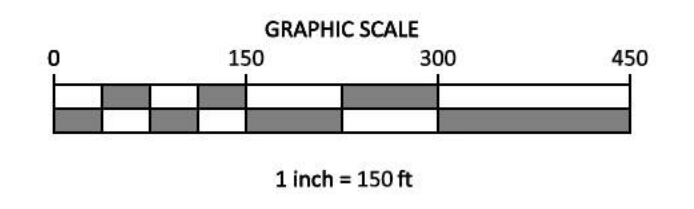
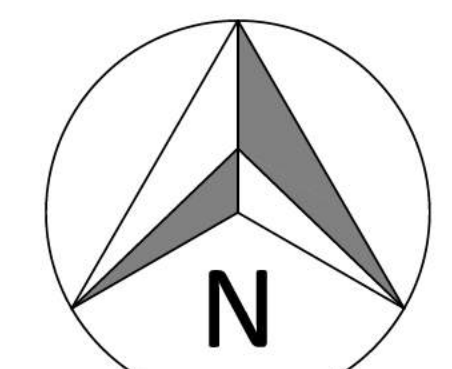
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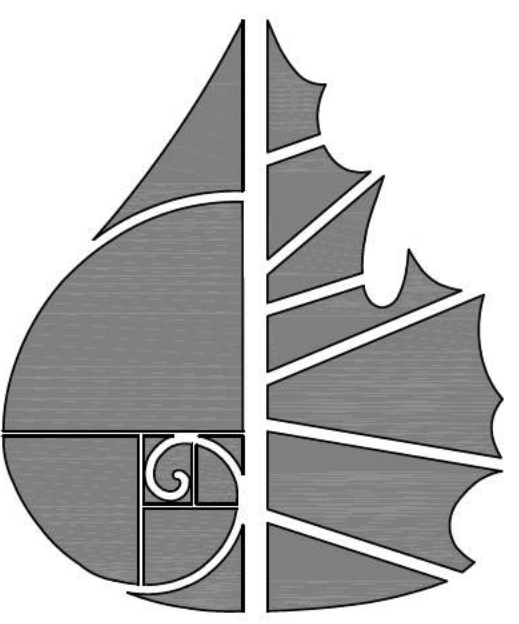
PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE
PROJECT NOTES

Revision table with columns: NO., DATE, REVISION. Includes SHEET NO. C1.2, SHEET 2 OF 47, JOB# 21.112G, and 23 MARCH 2023.



LEGEND

□	CONCRETE MONUMENT (OLD)
■	CONCRETE MONUMENT (NEW)
○	IRON ROD (OLD)
●	IRON ROD (NEW)
⊕	BENCHMARK
---	BOUNDARY LINE
- - -	BUFFER
- - -	SETBACK / YARD
- - -	PUDE
---	EXTRUDED CURB
SS	SANITARY SEWER LINE
FM	SANITARY FORCE MAIN
W	WATER LINE
S	STORM SEWER
G	GAS LINE
OHE	OVERHEAD UTILITY LINE
UGT	UNDERGROUND UTILITY LINE
---	FENCE
---	TREE LINE
⊕	UTILITY POLE
⊕	UTILITY POLE W/ LIGHT
⊕	GUY ANCHOR
⊕	TELEPHONE MANHOLE
⊕	ELECTRIC JUNCTION BOX
⊕	CABLE PEDESTAL
⊕	SANITARY SEWER MANHOLE
⊕	WATER METER
⊕	WATER VALVE
⊕	BLOW OFF VALVE
⊕	AIR RELEASE ASSEMBLY
⊕	FIRE HYDRANT
⊕	GAS METER
⊕	GAS VALVE
⊕	A/C PAD



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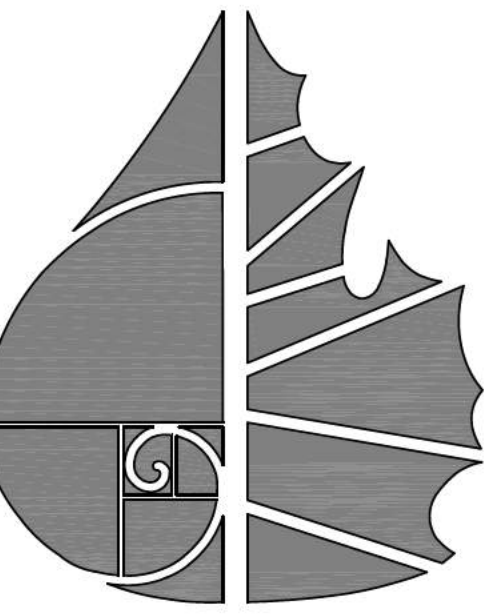


PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

EXISTING CONDITIONS

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO.
C 2.0
 SHEET 3 OF 47



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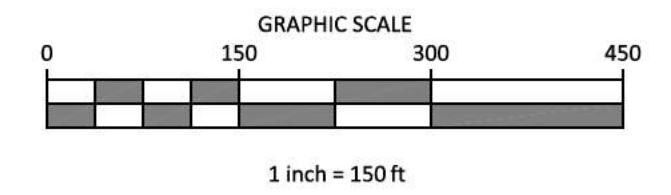
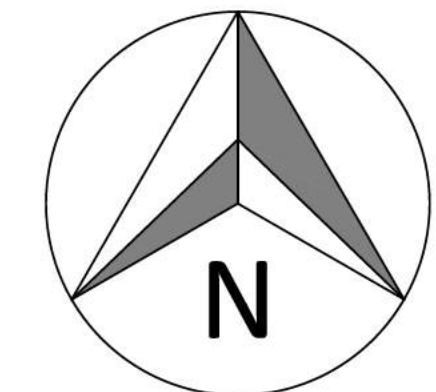
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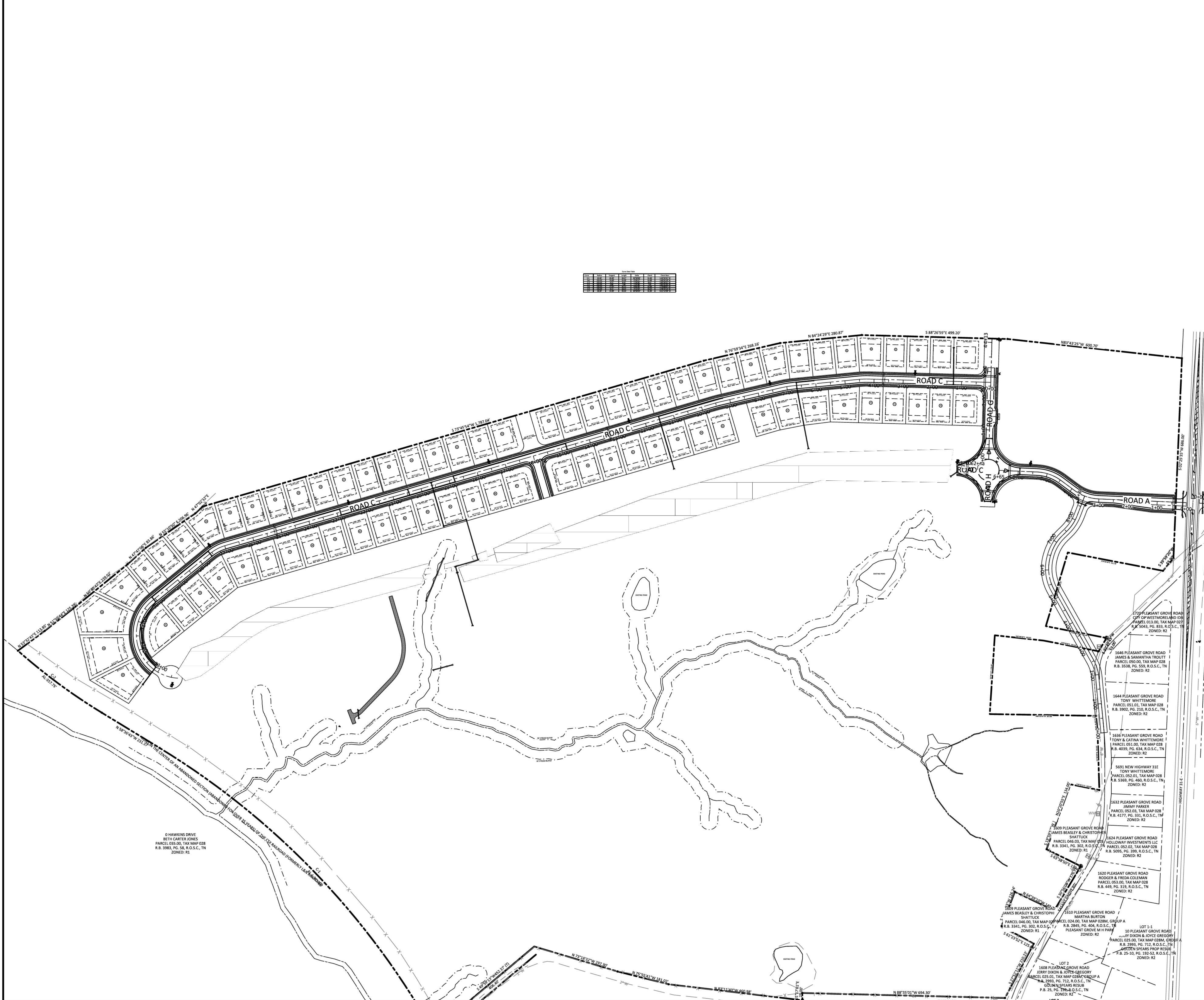
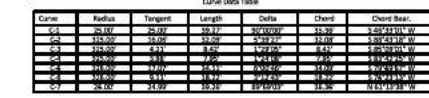
PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

OVERALL SITE LAYOUT



LEGEND

- CONCRETE MONUMENT (OLD)
- CONCRETE MONUMENT (NEW)
- IRON ROD (OLD)
- IRON ROD (NEW)
- ⊕ BENCHMARK
- BOUNDARY LINE
- - - - - BUFFER
- - - - - SETBACK / YARD
- - - - - PUDE
- EXTRUDED CURB
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- FM SANITARY FORCE MAIN
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- OHE OVERHEAD UTILITY LINE
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- UTILITY POLE W/ LIGHT
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- TELEPHONE MANHOLE
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- WATER METER
- WATER VALVE
- BLOW OFF VALVE
- AIR RELEASE ASSEMBLY
- FIRE HYDRANT
- GAS VALVE
- GAS VALVE
- A/C PAD



© HAWKING DRIVE
BETH CARTER JONES
PARCEL 035.00, TAX MAP 028
R.B. 3383, PG. 38, R.O.S.C., TN
ZONED: R1

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO.
C 3.1

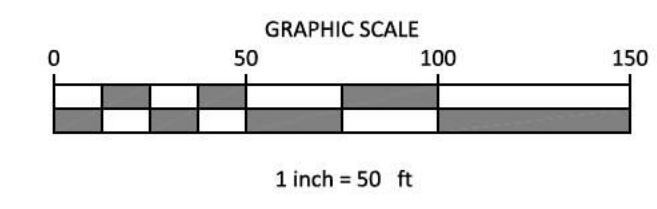
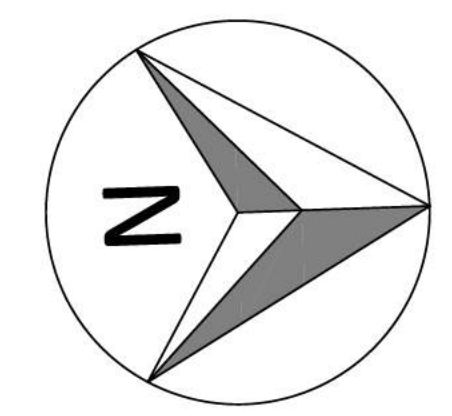
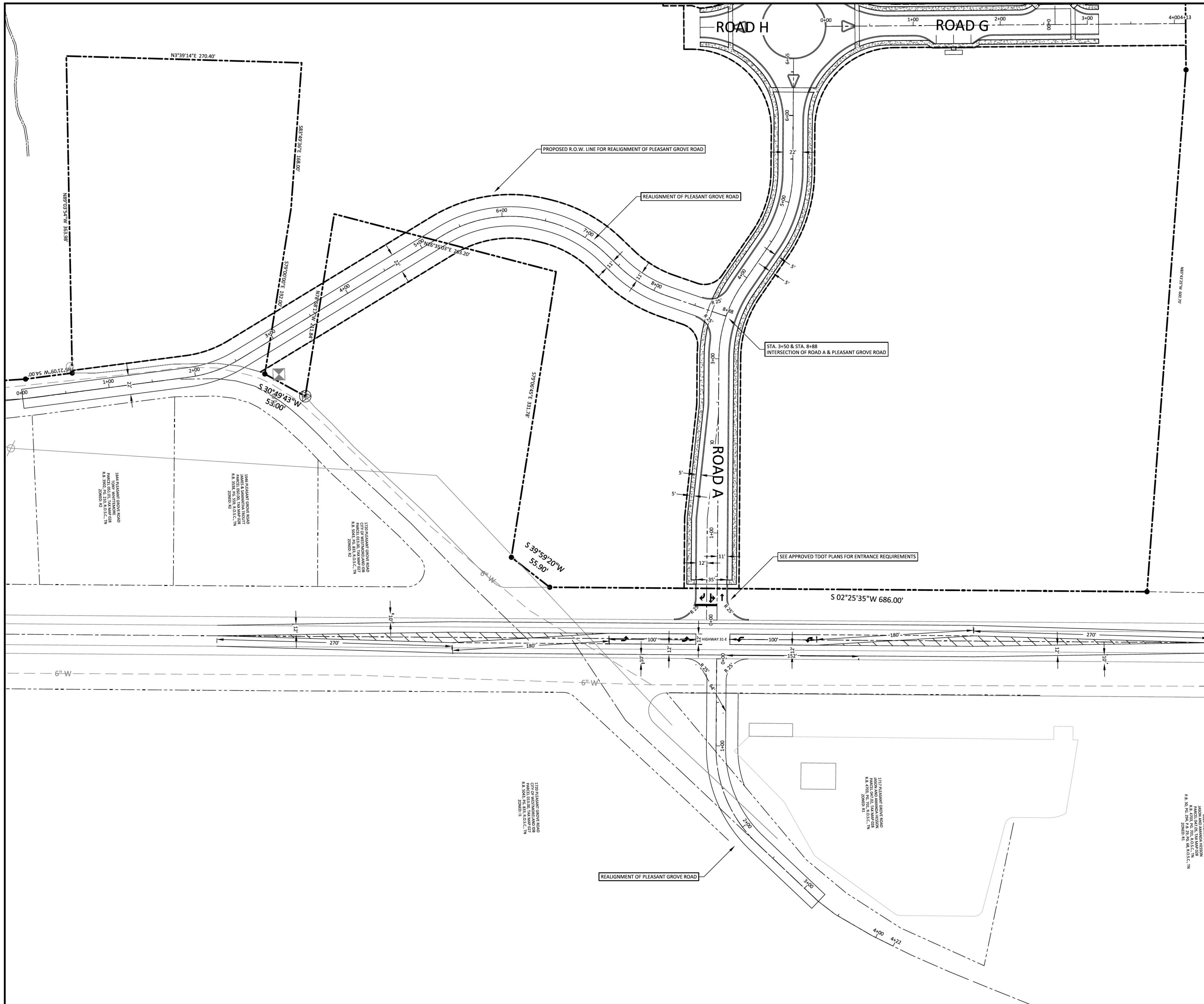
SHEET 4 OF 47



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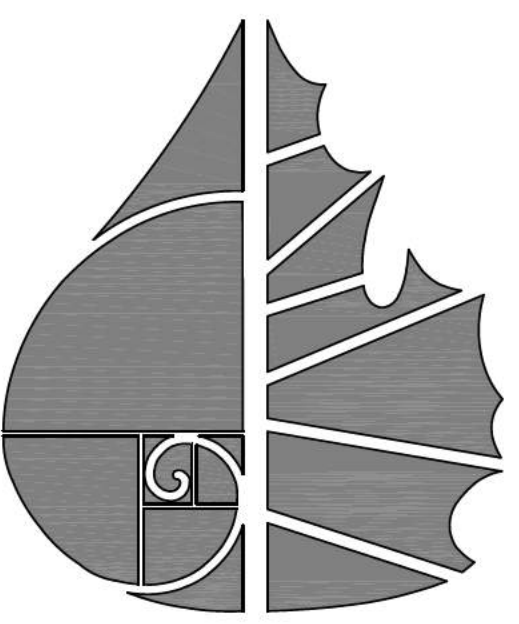
JOB# 21.112G

23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
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 - GAS METER
 - GAS VALVE
 - A/R DAN

NOTES:
 1. ROAD REALIGNMENTS/DECELERATION LANES/TURN LANES PER THE RECOMMENDATIONS OF THE TRAFFIC STUDY CONDUCTED BY RG PHILLIPS.



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PLEASANT GROVE FARMS, PHASE 1
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 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

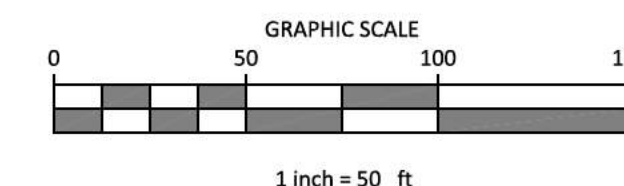
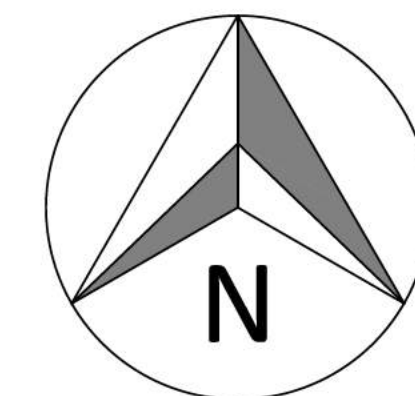
SITE LAYOUT

NO.	DATE	REVISION	PER CITY COMMENTS
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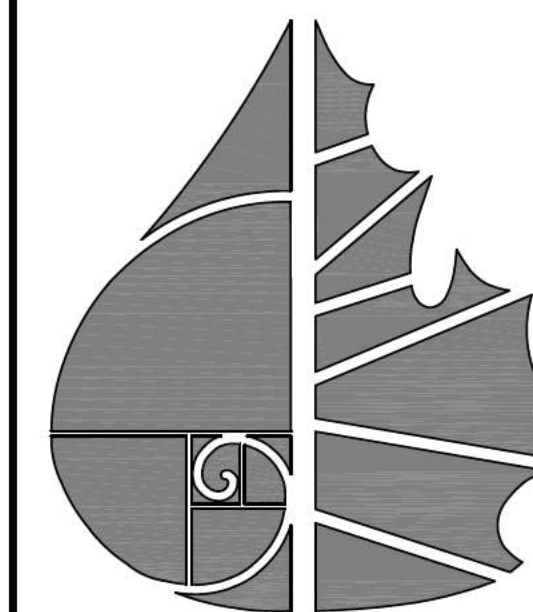


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SHEET NO.
C 3.2
 SHEET 5 OF 47



- LEGEND**
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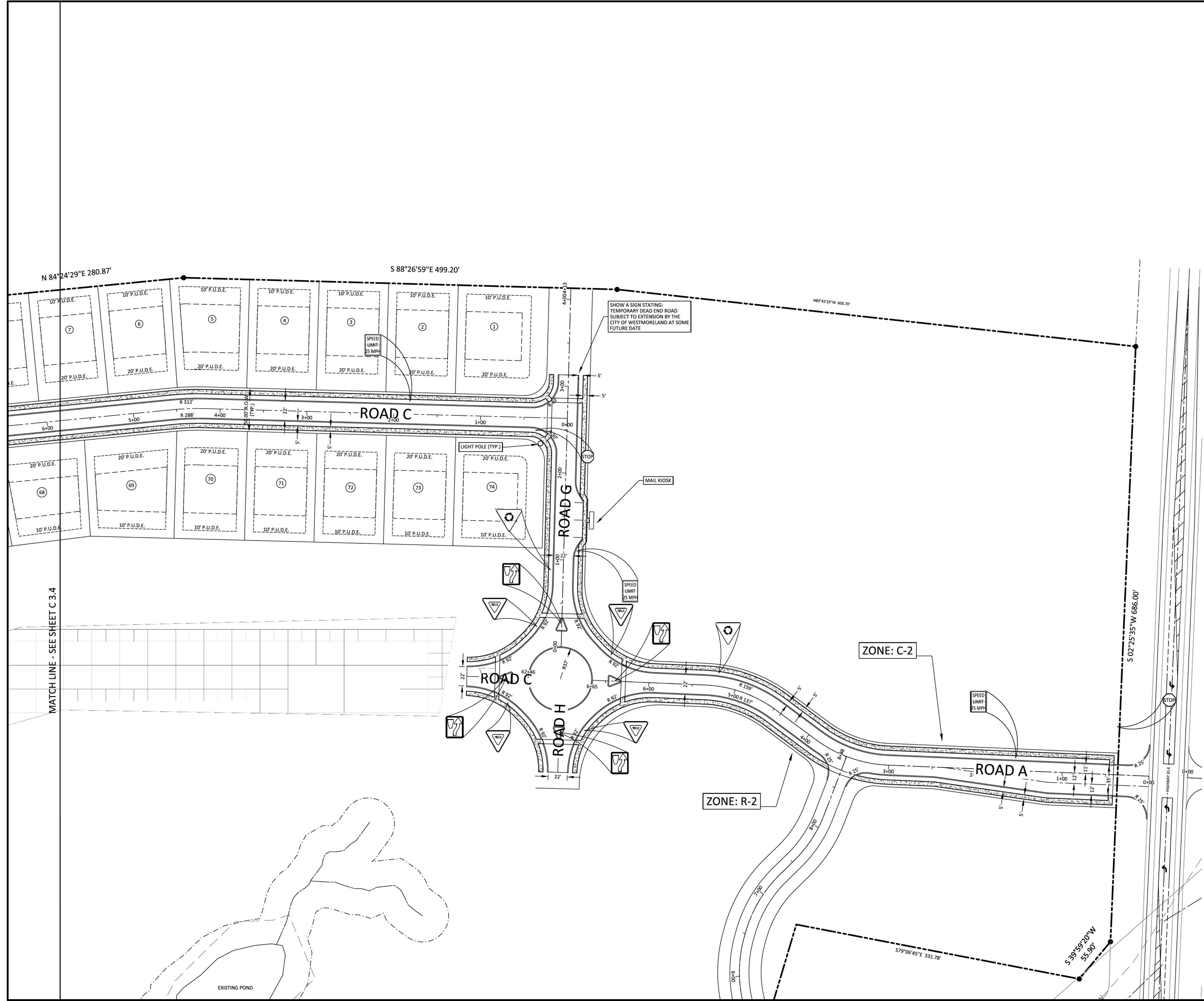
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01-08-23

PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

SITE LAYOUT



MATCH LINE - SEE SHEET C 3.4

EXISTING POND

NO.	DATE	REVISION
1	05-13-2022	PER CITY COMMENTS
2	06-16-2022	PER CITY COMMENTS
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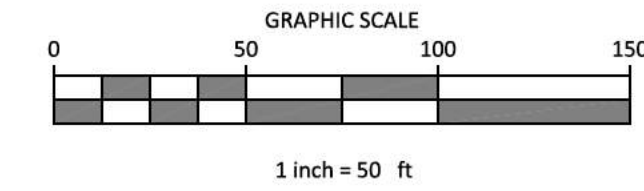
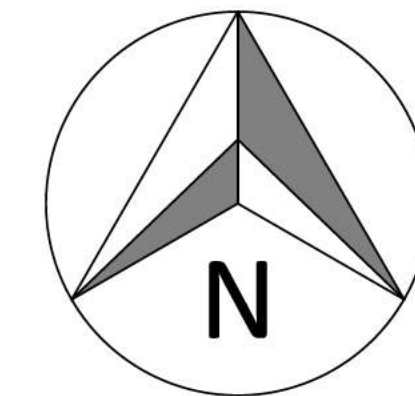
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SHEET 6 OF 47



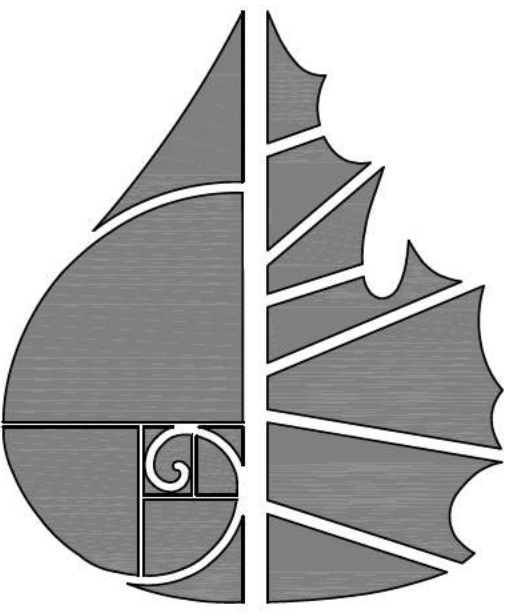
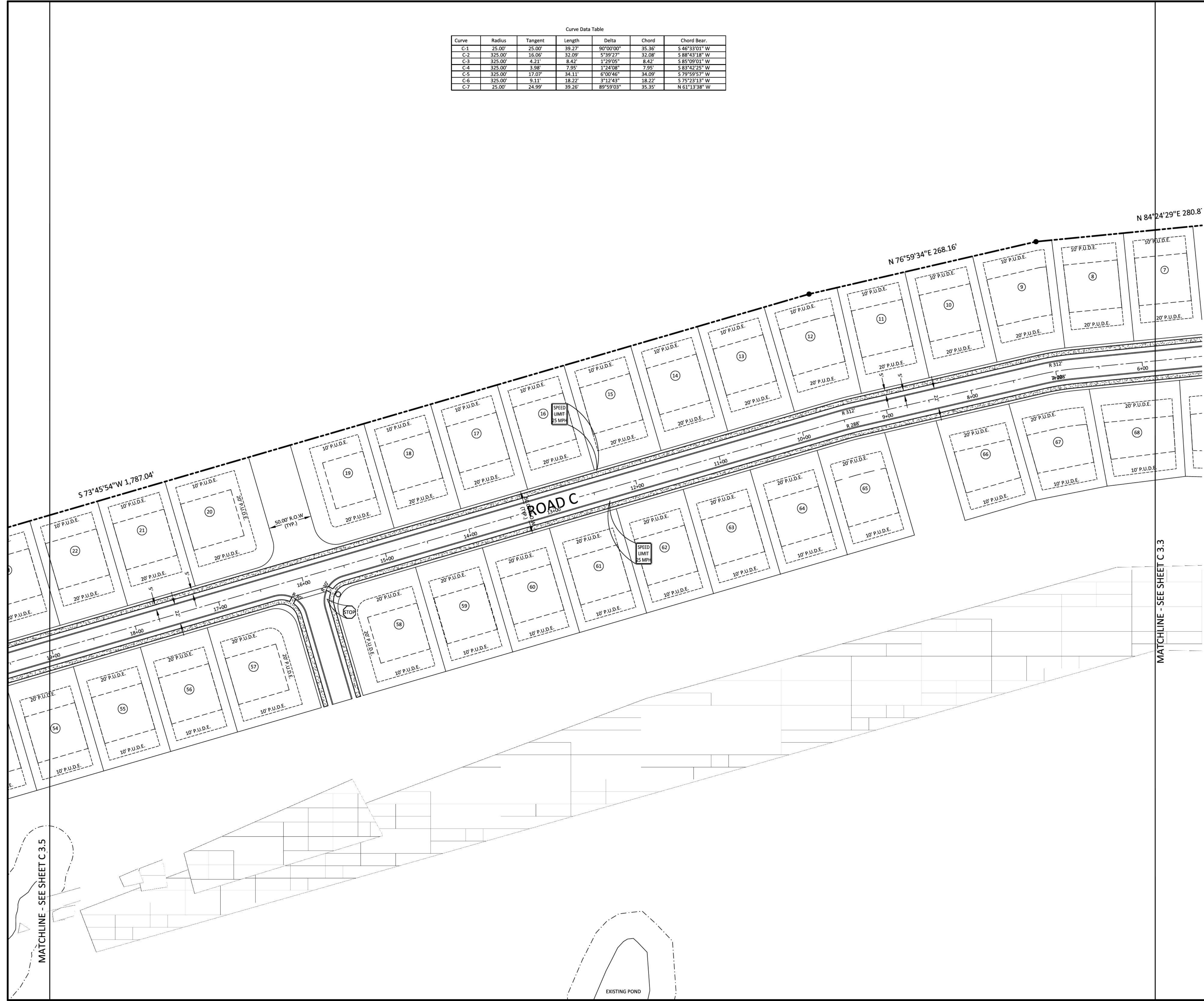
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Curve	Radius	Tangent	Length	Delta	Chord	Chord Bear.
C-1	25.00'	25.00'	39.27'	90°00'00"	35.36'	S 46°33'01" W
C-2	325.00'	16.06'	32.09'	5°39'27"	32.08'	S 88°43'18" W
C-3	325.00'	4.21'	8.42'	1°29'05"	8.42'	S 85°09'01" W
C-4	325.00'	3.58'	7.95'	1°24'08"	7.95'	S 83°42'25" W
C-5	325.00'	17.07'	34.11'	6°00'46"	34.09'	S 79°59'57" W
C-6	325.00'	9.11'	18.22'	3°12'43"	18.22'	S 75°23'13" W
C-7	25.00'	24.99'	39.26'	89°59'03"	35.35'	N 61°13'38" W



LEGEND

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- IRON ROD (NEW)
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- W WATER LINE
- STORM SEWER
- G GAS LINE
- OHE OVERHEAD UTILITY LINE
- UGT UNDERGROUND UTILITY LINE
- FENCE
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- UTILITY POLE
- UTILITY POLE W/ LIGHT
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- TELEPHONE MANHOLE
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- WATER VALVE
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- AIR RELEASE ASSEMBLY
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- A/C PAD



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andy.leath@greenliddesign.com



01-08-23

PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

SITE LAYOUT

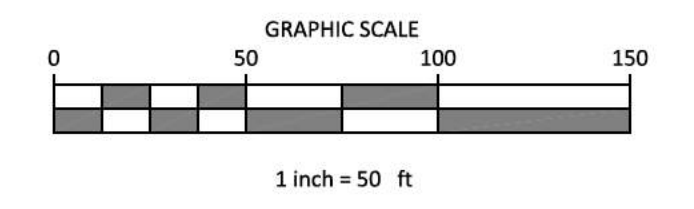
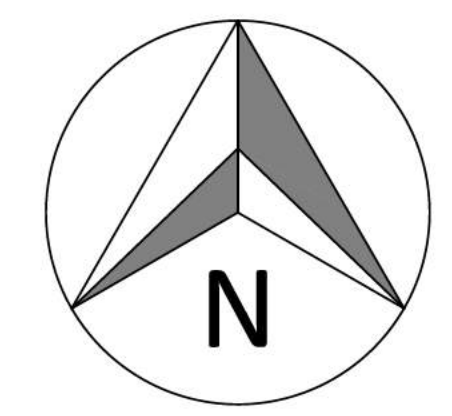
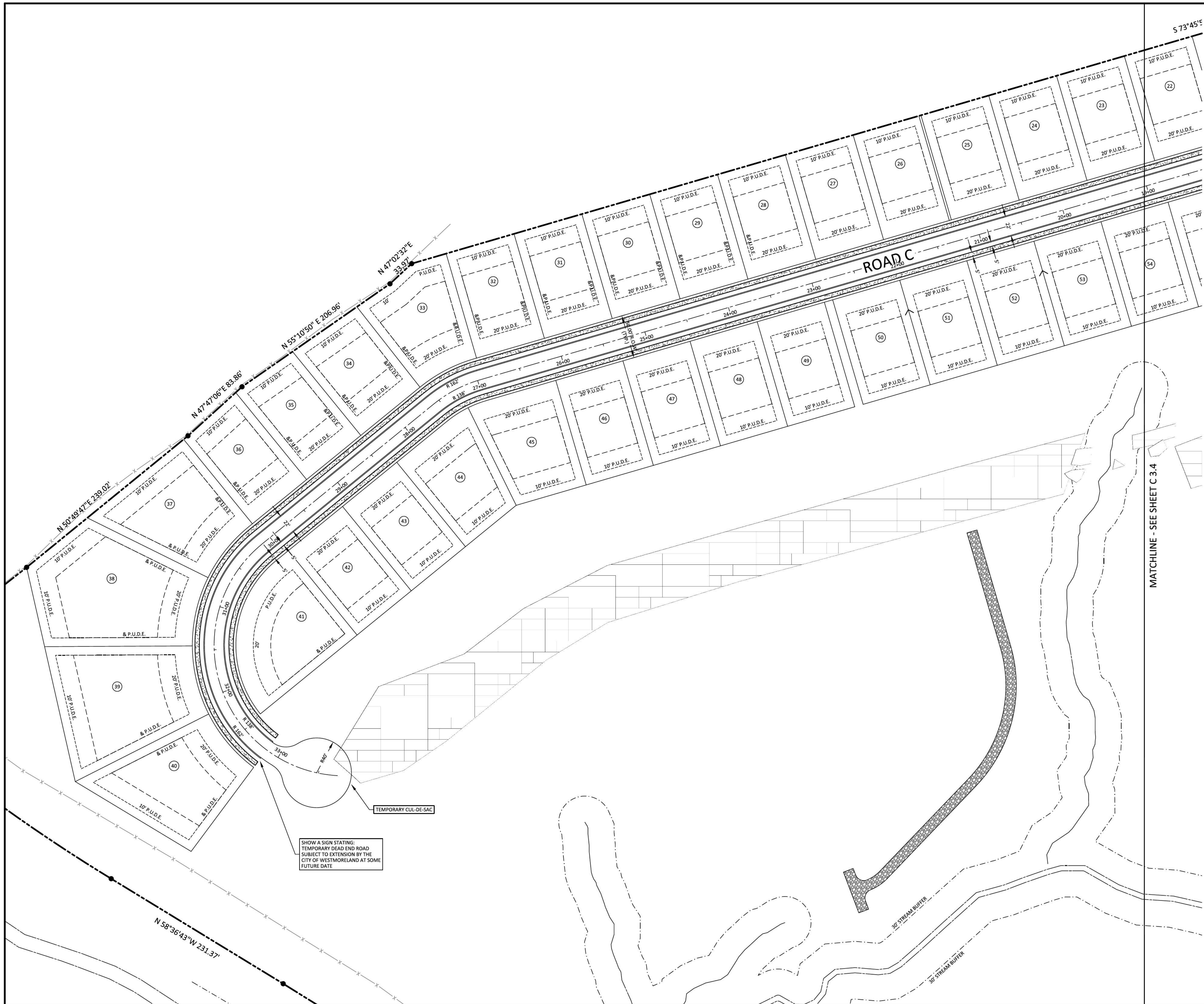
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5	02-07-2023	PER CITY COMMENTS

SHEET NO.
C 3.4

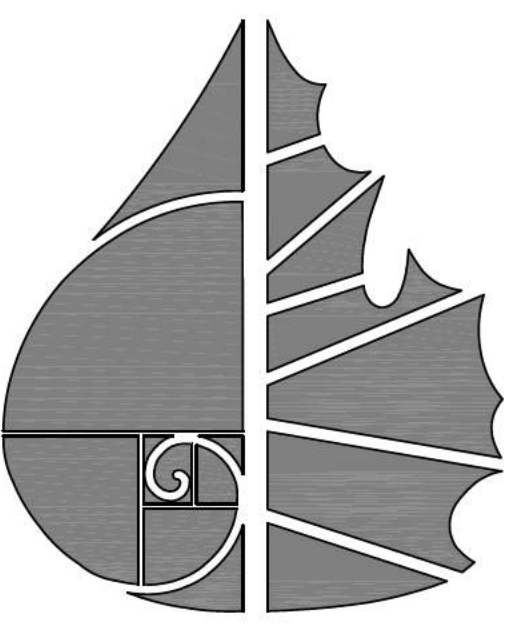
SHEET 7 OF 47



IF YOU DIG IN TENNESSEE
CALL 811 FIRST!
or (800) 851-1111 or (615) 366-1987
TENNESSEE ONE CALL IT'S THE LAW



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
 - - - - - SETBACK / YARD
 - - - - - P.U.D.E.
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
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PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
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SHEET NO.
C 3.5
 SHEET 8 OF 47

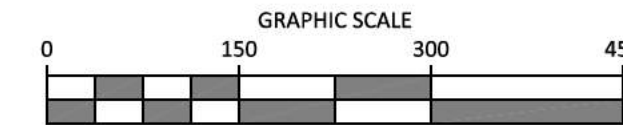
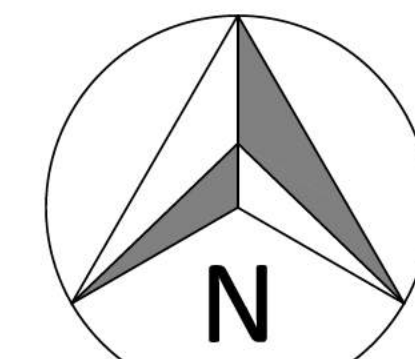


STORM SEWER STRUCTURE TABLE			
NO.	TYPE*	RIM	CASTING
1	HEADWALL	882.80	880.59 (2)
2	SINGLE CURB INLET	884.15	881.36 (3) 881.36 (1)
3	SINGLE CURB INLET	884.15	881.47 (2) 881.47 (4)
4	SINGLE CURB INLET	885.01	882.00 (5) 882.00 (3)
5	SINGLE CURB INLET	888.32	885.50 (6) 885.50 (4)
6	SINGLE CURB INLET	891.60	889.89 (7) 889.89 (5)
7	SINGLE CURB INLET	891.71	890.00 (8) 890.00 (6)
8	SINGLE CURB INLET	907.75	904.64 (9) 904.64 (7)
9	SINGLE CURB INLET	907.75	904.75 (8)
10	HEADWALL	881.13	878.93 (55)
11	DOUBLE CURB INLET	895.76	892.89 (12) 892.89 (65) 892.89 (13) 892.89 (18)
12	DOUBLE CURB INLET	895.76	893.00 (11)
13	SINGLE CURB INLET	897.10	894.39 (15) 894.39 (11) 894.39 (14)
14	SINGLE CURB INLET	897.15	894.50 (13)
15	SINGLE CURB INLET	906.45	903.38 (16) 903.38 (13)
16	SINGLE CURB INLET	906.45	903.50 (15) 903.50 (17)
17	SINGLE CURB INLET	909.71	906.75 (16)
18	SINGLE CURB INLET	901.46	893.39 (19) 893.39 (11)
19	SINGLE CURB INLET	896.92	893.50 (18) 893.50 (20)
20	SINGLE CURB INLET	903.08	900.00 (19) 900.00 (21)
21	SINGLE CURB INLET	905.47	902.64 (20) 902.64 (22)
22	SINGLE CURB INLET	905.47	902.75 (21)
23	HEADWALL	908.89	906.68 (24)
24	SINGLE CURB INLET	910.73	907.64 (25) 907.64 (23)
25	SINGLE CURB INLET	910.73	907.75 (24) 907.75 (26)
26	SINGLE CURB INLET	915.18	912.50 (25)
27	HEADWALL	917.55	915.34 (28)
28	SINGLE CURB INLET	919.31	916.38 (29) 916.38 (27)
29	SINGLE CURB INLET	919.31	916.50 (28) 916.50 (30)
30	SINGLE CURB INLET	920.20	917.25 (29)
31	HEADWALL	917.94	915.73 (32)
32	SINGLE CURB INLET	918.87	916.25 (33) 916.25 (34) 916.25 (31)
33	SINGLE CURB INLET	918.87	916.36 (32)
34	SINGLE CURB INLET	920.00	917.25 (32)
35	HEADWALL	916.86	914.65 (36)

STORM SEWER STRUCTURE TABLE				
NO.	TYPE*	RIM	INVERTS	CASTING
36	SINGLE CURB INLET	920.00	914.65 (37) 914.65 (41) 914.50 (35)	3103-V
37	SINGLE CURB INLET	919.99	914.76 (38) 914.76 (36)	3103-V
38	SINGLE CURB INLET	920.97	915.13 (39) 915.13 (37)	3103-V
39	SINGLE CURB INLET	920.02	915.50 (40) 915.50 (38)	3103-V
40	SINGLE CURB INLET	920.02	915.60 (39)	3103-V
41	SINGLE CURB INLET	920.83	915.02 (42) 915.02 (36)	3103-V
42	SINGLE CURB INLET	920.04	915.39 (43) 915.39 (41)	3103-V
43	SINGLE CURB INLET	920.04	915.50 (44) 915.50 (42)	3103-V
44	SINGLE CURB INLET	921.29	915.86 (45) 915.86 (43)	3103-V
45	SINGLE CURB INLET	921.96	916.23 (46) 916.23 (44)	3103-V
46	SINGLE CURB INLET	921.96	916.33 (45)	3103-V
47	HEADWALL	871.21	858.00 (48)	-
48	DROP STRUCTURE	866.55	864.00 (57) 858.55 (47)	-
49	TDOT HEADWALL	934.23	932.02 (50)	-
50	SINGLE CURB INLET	934.41	932.21 (51) 932.10 (49)	3103-V
51	SINGLE CURB INLET	934.61	932.40 (52) 932.40 (50)	3103-V
52	TDOT HEADWALL	934.95	932.74 (53)	-
53	TDOT HEADWALL	934.26	932.05 (54)	-
54	TDOT HEADWALL	934.53	932.32 (53)	-
55	DOUBLE CURB INLET	887.85	879.86 (56) 879.86 (10)	3103
56	DOUBLE CURB INLET	887.85	879.98 (67) 879.98 (55)	3103
57	DROP STRUCTURE	872.50	864.50 (48) 869.00 (58)	-
58	OUTLET STRUCTURE	878.50	875.50 (57)	SEE DETAIL
65	JUNCTION BOX	886.00	881.50 (11) 881.50 (66)	SEE DETAIL
66	JUNCTION BOX	891.40	881.10 (65) 881.10 (67)	SEE DETAIL
67	SINGLE CURB INLET	889.02	880.38 (66) 880.38 (56)	3103-V
70	HEADWALL	873.75	868.00 (71)	-
71	HEADWALL	878.75	876.00 (70)	-
72	HEADWALL	749.32	747.11 (73)	-
73	HEADWALL	749.46	747.25 (72)	-
74	HEADWALL	930.56	928.35 (75)	-
75	HEADWALL	930.71	928.50 (74)	-

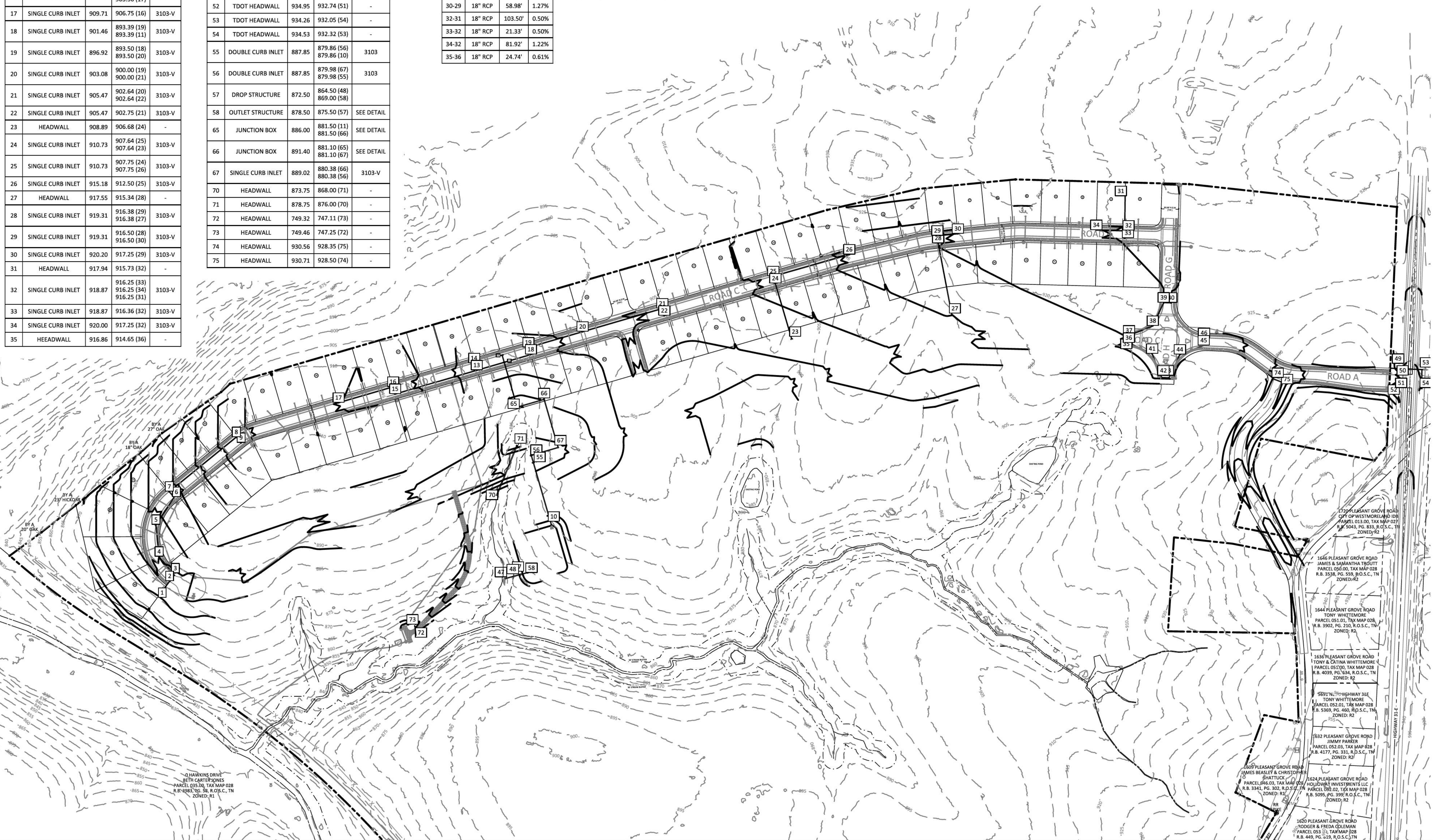
PIPE TABLE			
LINE	SIZE/TYPE	LENGTH	SLOPE
2-1	18" RCP	51.60'	1.50%
3-2	18" RCP	21.33'	0.50%
4-3	18" RCP	68.37'	0.78%
5-4	18" RCP	92.19'	3.80%
6-5	18" RCP	94.21'	4.66%
7-6	18" RCP	21.33'	0.50%
8-7	18" RCP	248.24'	5.90%
9-8	18" RCP	21.33'	0.50%
11-65	18" RCP	134.32'	8.48%
12-11	18" RCP	21.33'	0.50%
13-11	18" RCP	82.28'	1.82%
14-13	18" RCP	21.38'	0.50%
15-13	18" RCP	243.98'	3.69%
16-15	18" RCP	21.33'	0.54%
17-16	18" RCP	163.01'	1.99%
18-11	18" RCP	79.89'	0.63%
19-18	18" RCP	21.38'	0.50%
20-19	18" RCP	162.11'	4.01%
21-20	18" RCP	238.47'	1.11%
22-21	18" RCP	21.33'	0.50%
24-23	18" RCP	165.51'	0.58%
25-24	18" RCP	21.33'	0.50%
26-25	18" RCP	227.04'	2.09%
28-27	18" RCP	208.48'	0.50%
29-28	18" RCP	21.34'	0.54%
30-29	18" RCP	58.98'	1.27%
32-31	18" RCP	103.50'	0.50%
33-32	18" RCP	21.33'	0.50%
34-32	18" RCP	81.92'	1.22%
35-36	18" RCP	24.74'	0.61%

PIPE TABLE			
LINE	SIZE/TYPE	LENGTH	SLOPE
37-36	18" RCP	21.33'	0.50%
38-37	18" RCP	73.71'	0.50%
39-38	18" RCP	73.71'	0.50%
40-39	18" RCP	21.33'	0.50%
41-36	18" RCP	73.71'	0.50%
42-41	18" RCP	73.71'	0.50%
43-42	18" RCP	21.33'	0.50%
44-43	18" RCP	73.31'	0.50%
45-44	18" RCP	73.30'	0.50%
46-45	18" RCP	21.33'	0.50%
48-47	18" RCP	27.74'	2.00%
50-49	18" RCP	16.72'	0.50%
51-50	18" RCP	38.53'	0.50%
52-51	18" RCP	16.73'	2.02%
54-53	18" RCP	54.94'	0.50%
55-10	18" RCP	187.84'	0.50%
56-55	18" RCP	22.00'	0.50%
57-48	18" RCP	20.00'	2.50%
58-57	18" RCP	20.00'	32.50%
65-66	18" RCP	80.61'	0.50%
66-67	18" RCP	144.01'	0.50%
67-56	18" RCP	80.31'	0.50%
71-70	24" RCP	154.60'	5.17%
73-72	18" RCP	27.07'	0.50%
75-74	18" RCP	30.00'	0.50%



LEGEND

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PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

OVERALL GRADING PLAN

NO.	DATE	REVISION
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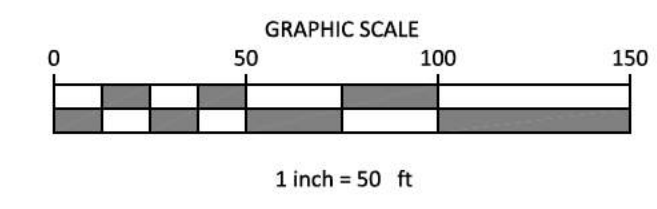
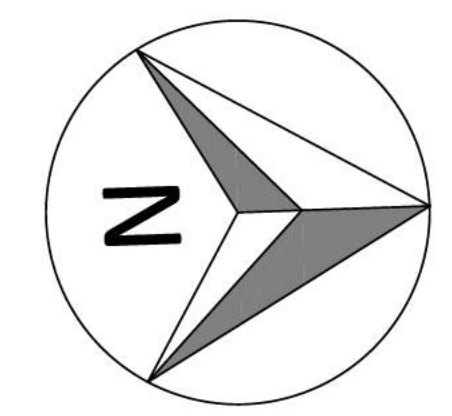
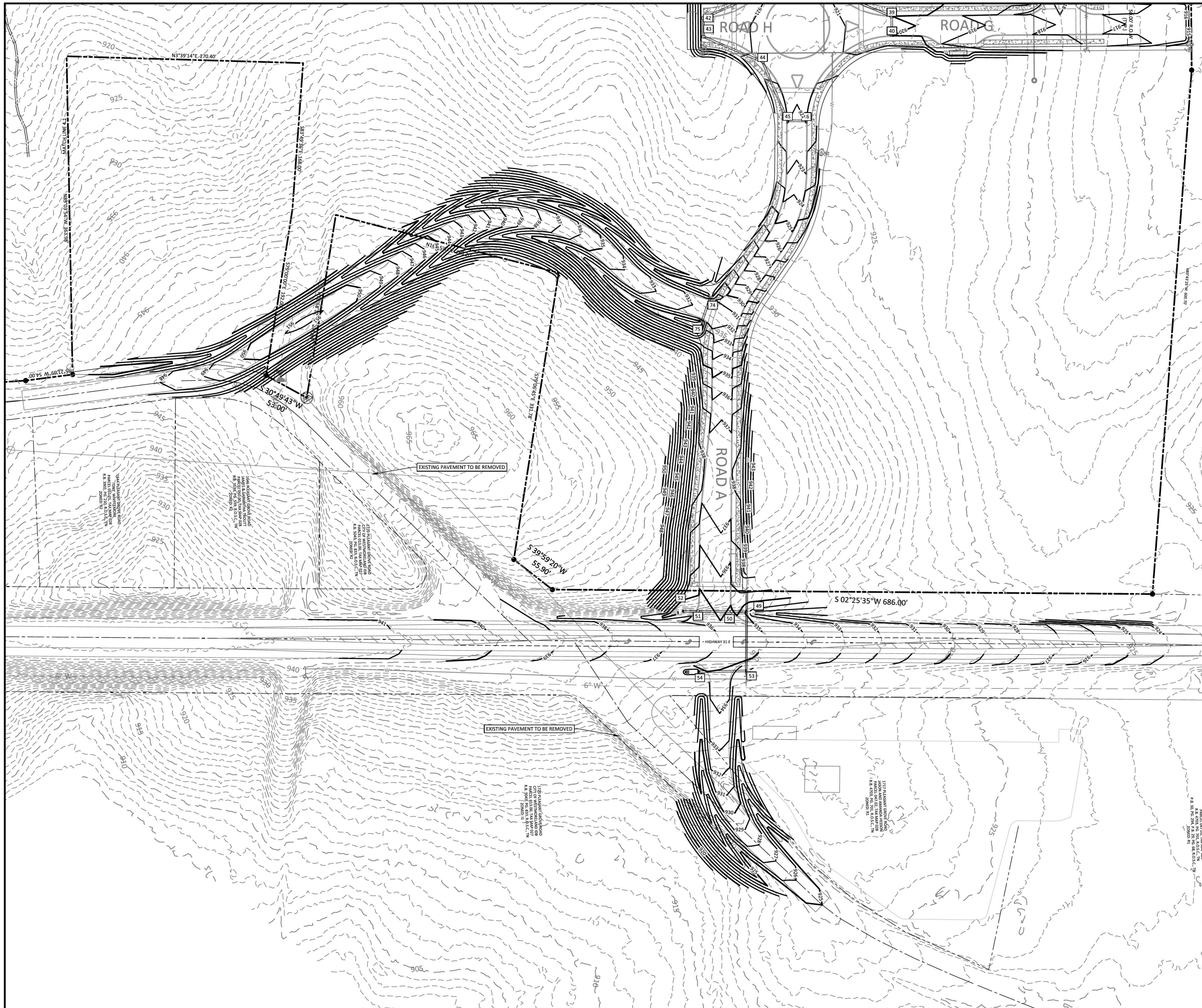
SHEET NO. C 4.1

SHEET 9 OF 47

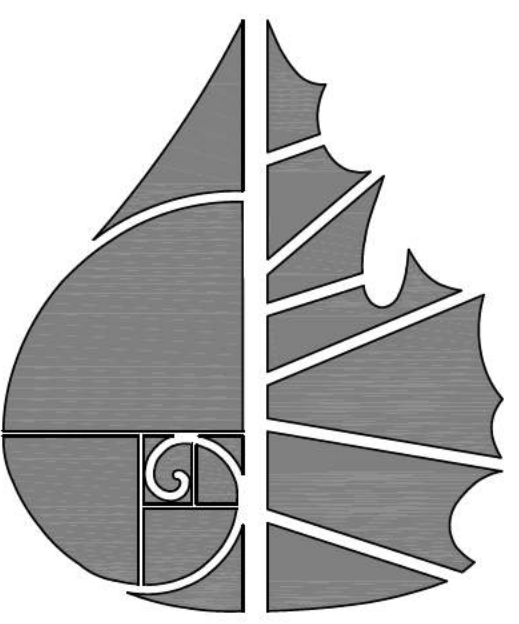
JOB# 21.112G 23 MARCH 2022

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 SUMNER COUNTY, TENNESSEE

OVERALL GRADING PLAN

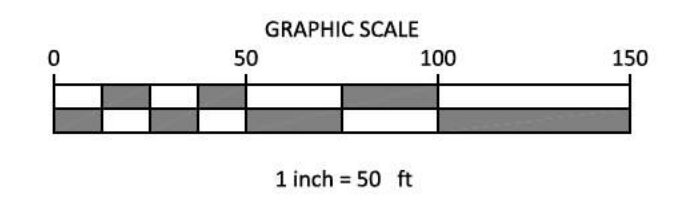
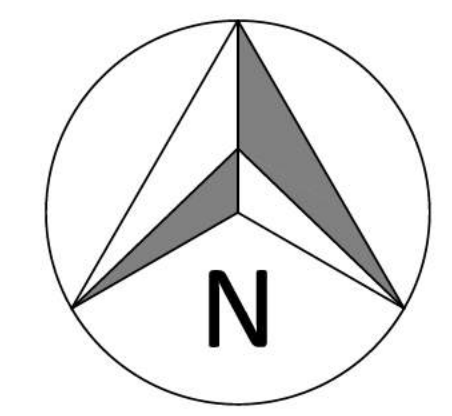
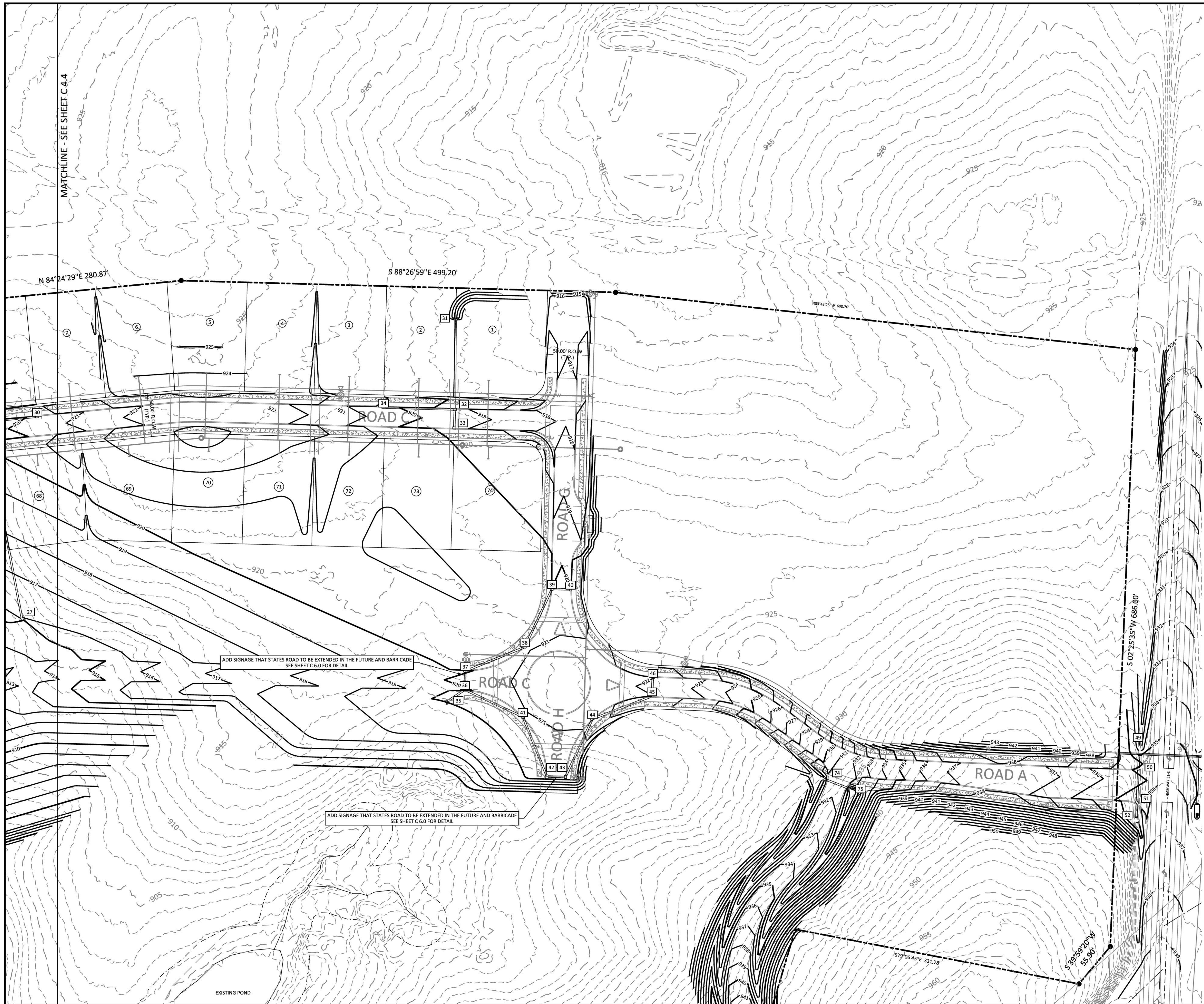
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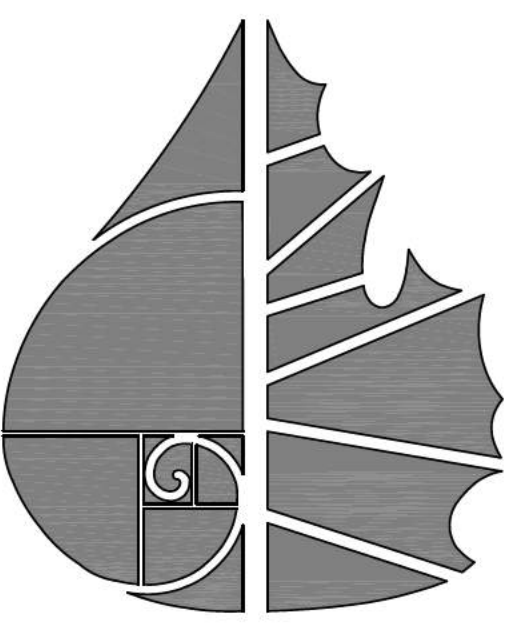


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SHEET NO.
C 4.2
 SHEET 10 OF 47



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 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

OVERALL GRADING PLAN

ADD SIGNAGE THAT STATES ROAD TO BE EXTENDED IN THE FUTURE AND BARRICADE
 SEE SHEET C 6.0 FOR DETAIL

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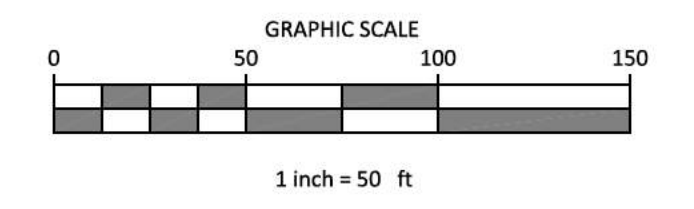
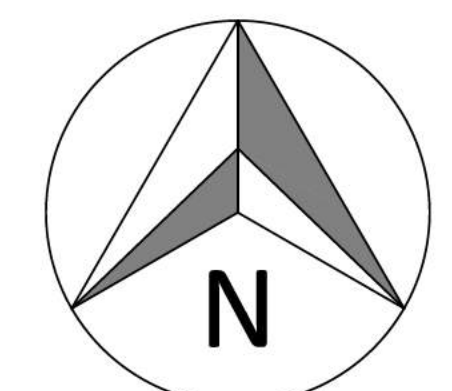
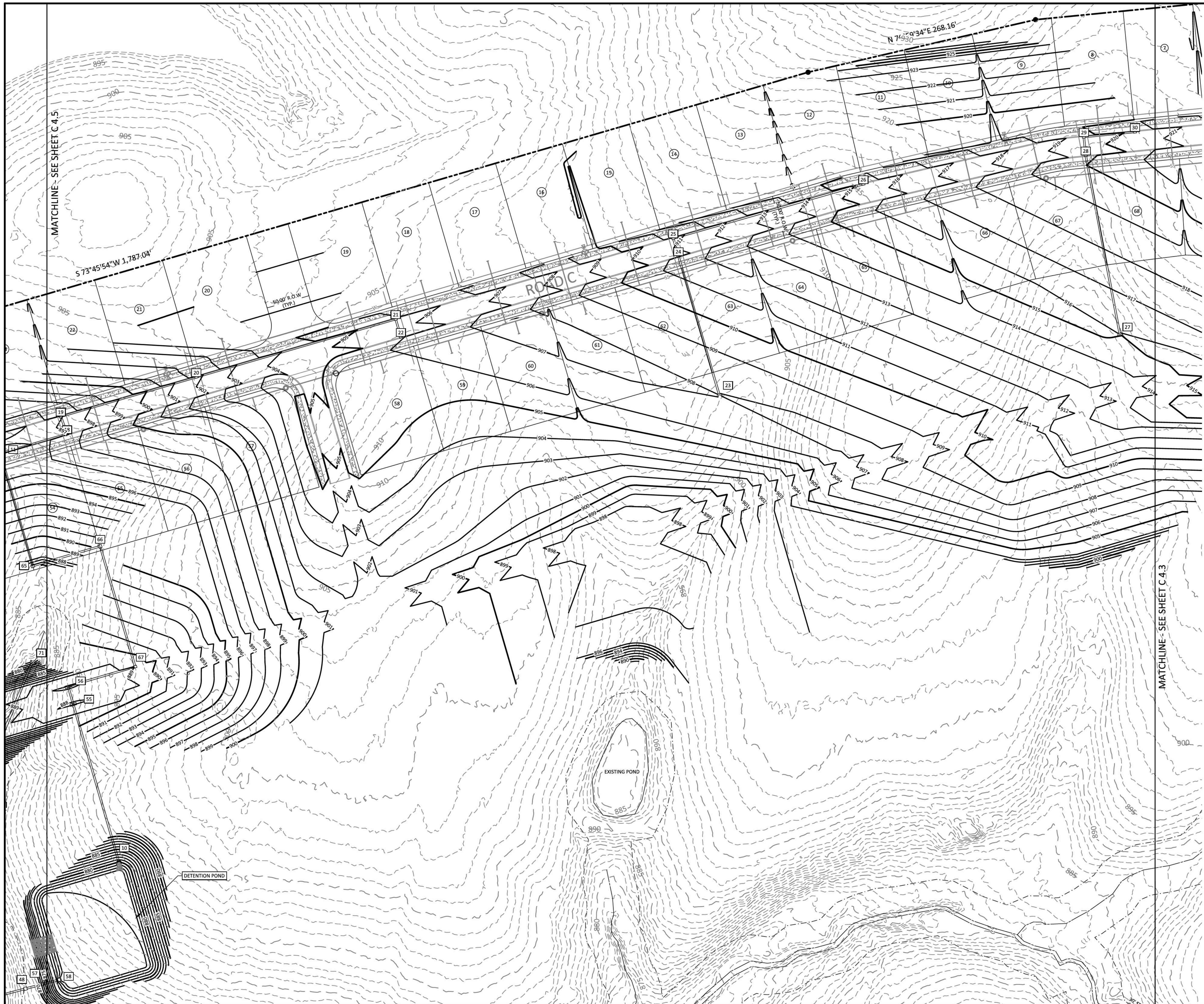
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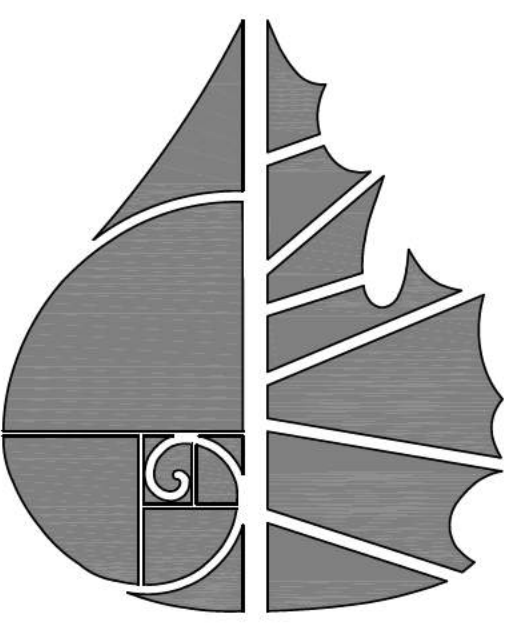


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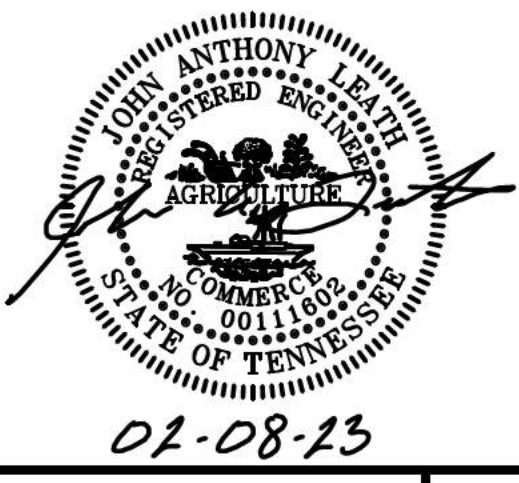
SHEET NO.
C 4.3
 SHEET 11 OF 47



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 - UGT UNDERGROUND UTILITY LINE
 - FENCE
 - TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - ⊕ GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
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 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD



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PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

OVERALL GRADING PLAN

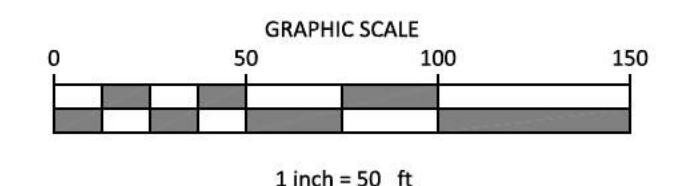
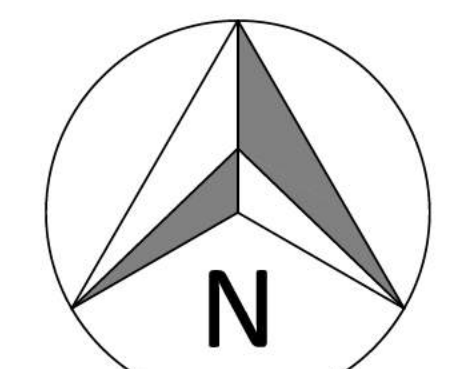
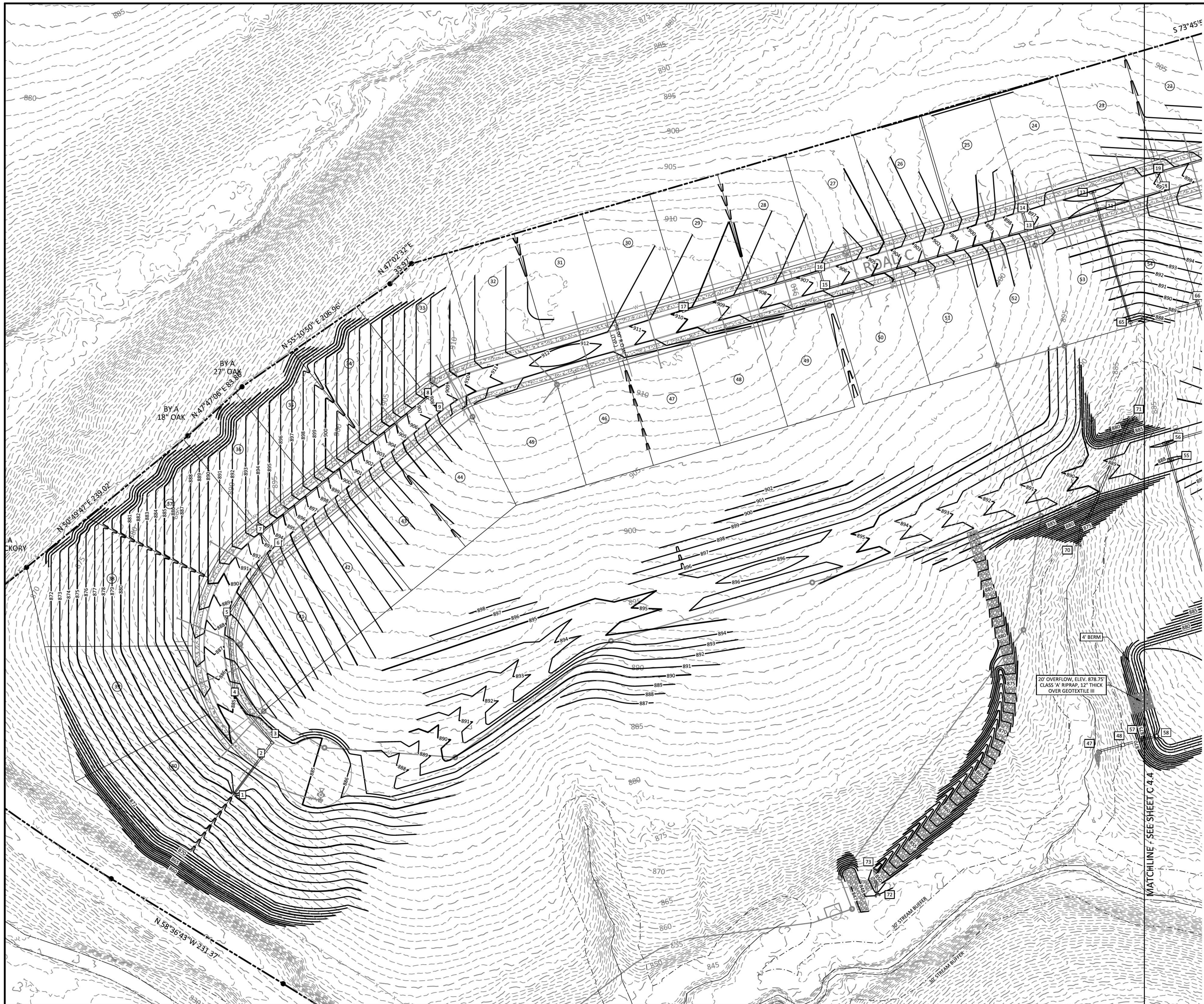
A CITY OF WESTMORELAND LAND DISTURBANCE PERMIT (LDP) IS REQUIRED FOR THIS PROJECT. NO SITE WORK SHALL BEGIN ON THIS PROJECT UNTIL AN LDP APPLICATION HAS BEEN PREPARED, SUBMITTED, AND APPROVED BY THE CITY OF WESTMORELAND ENGINEERING DIVISION. ONCE THE APPLICATION IS APPROVED, A PRE-CONSTRUCTION MEETING WILL BE SET UP, AND AFTER THE PRE-CONSTRUCTION MEETING THE CONTRACTOR WILL BE RELEASED BY THE DIVISION TO INSTALL AND CONSTRUCT THE INITIAL EROSION CONTROL MEASURES AS SHOWN IN THIS PLAN SET. ONCE INITIAL EROSION CONTROL MEASURES ARE IN PLACE, STABILIZED, AND INSPECTED BY THE DIVISION, THE LDP WILL BE RELEASED.

NO.	DATE	REVISION
1	05-13-2022	PER CITY COMMENTS
2	06-16-2022	PER CITY COMMENTS
3	08-23-2022	PER CITY COMMENTS
4	10-25-2022	PER CITY COMMENTS
5	02-07-2023	PER CITY COMMENTS

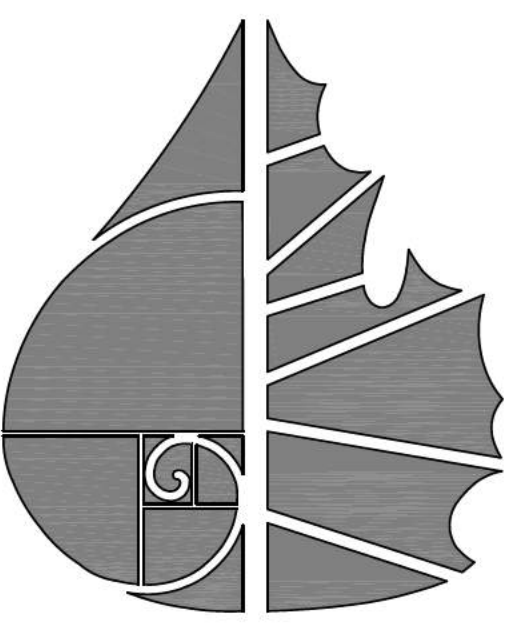


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 TENNESSEE ONE CALL IT'S THE LAW

SHEET NO.
C 4.4
 SHEET 12 OF 47
 JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
 - - - - - SETBACK / YARD
 - - - - - PUDE
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
 - FM SANITARY FORCE MAIN
 - W WATER LINE
 - S STORM SEWER
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PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

OVERALL GRADING PLAN

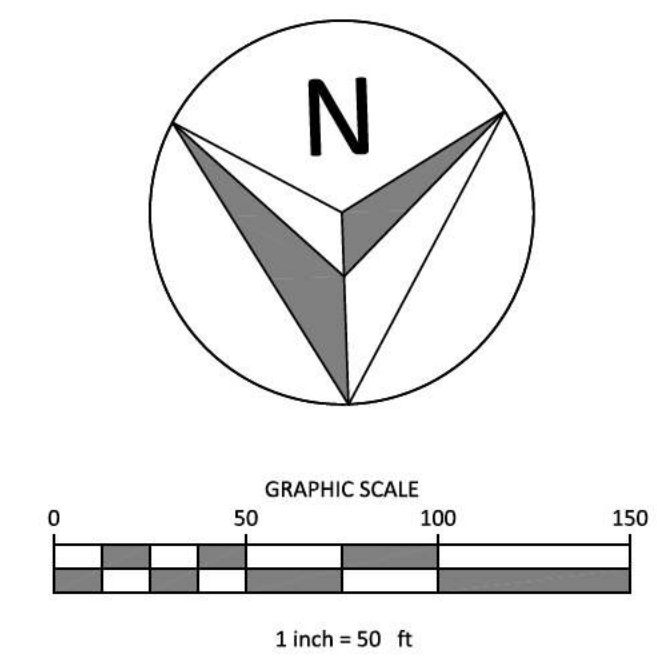
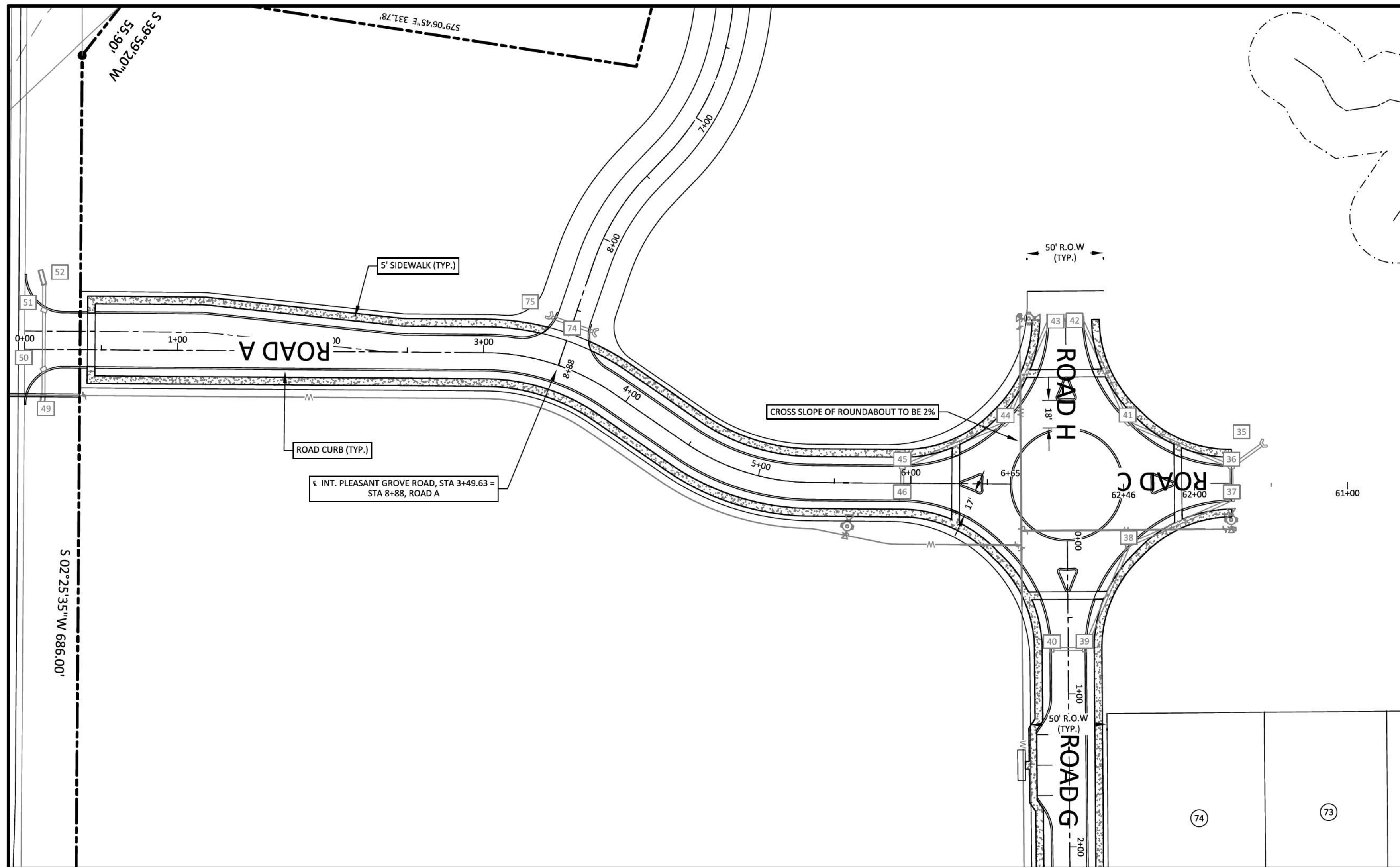
NO.	DATE	REVISION
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SHEET NO.
C 4.5
 SHEET 13 OF 47



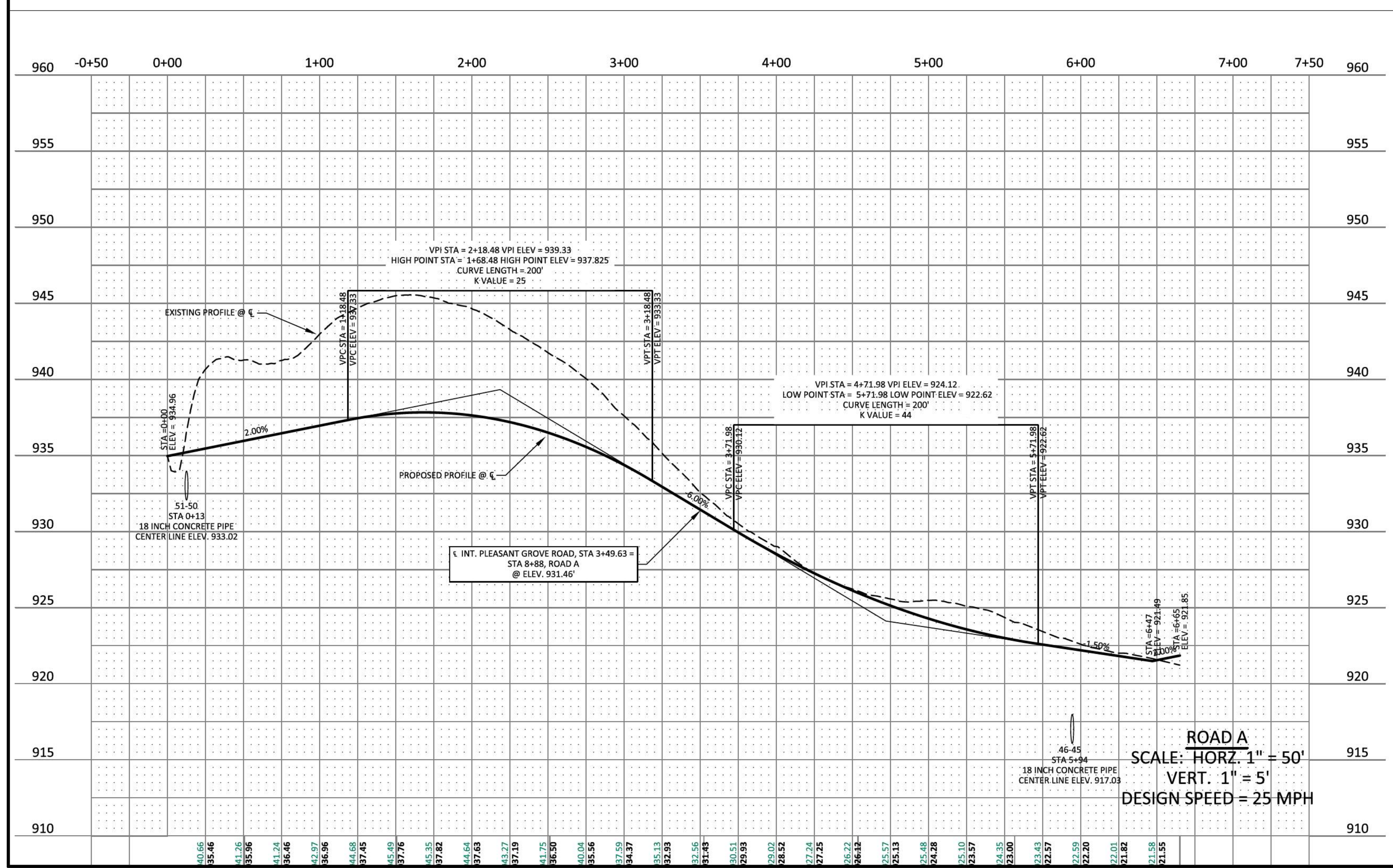
- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
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 - EXTRUDED CURB
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01-08-23

PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

ROAD A PROFILE



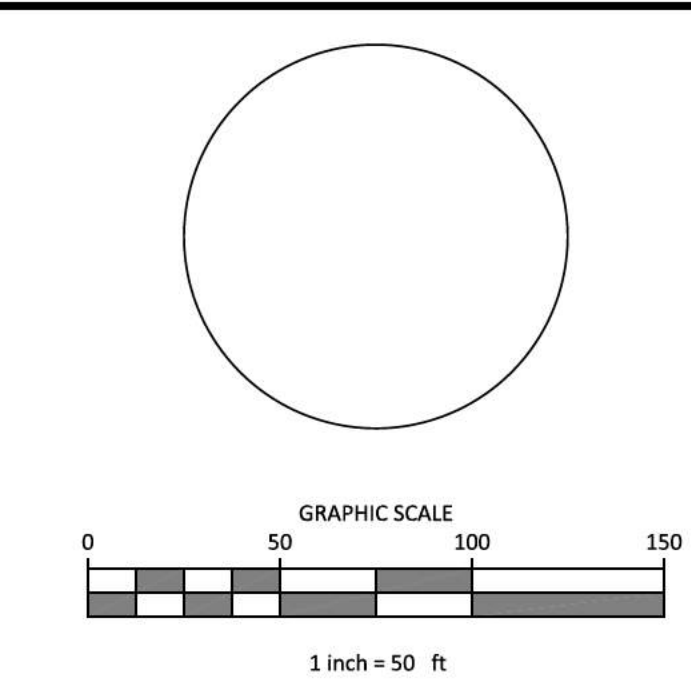
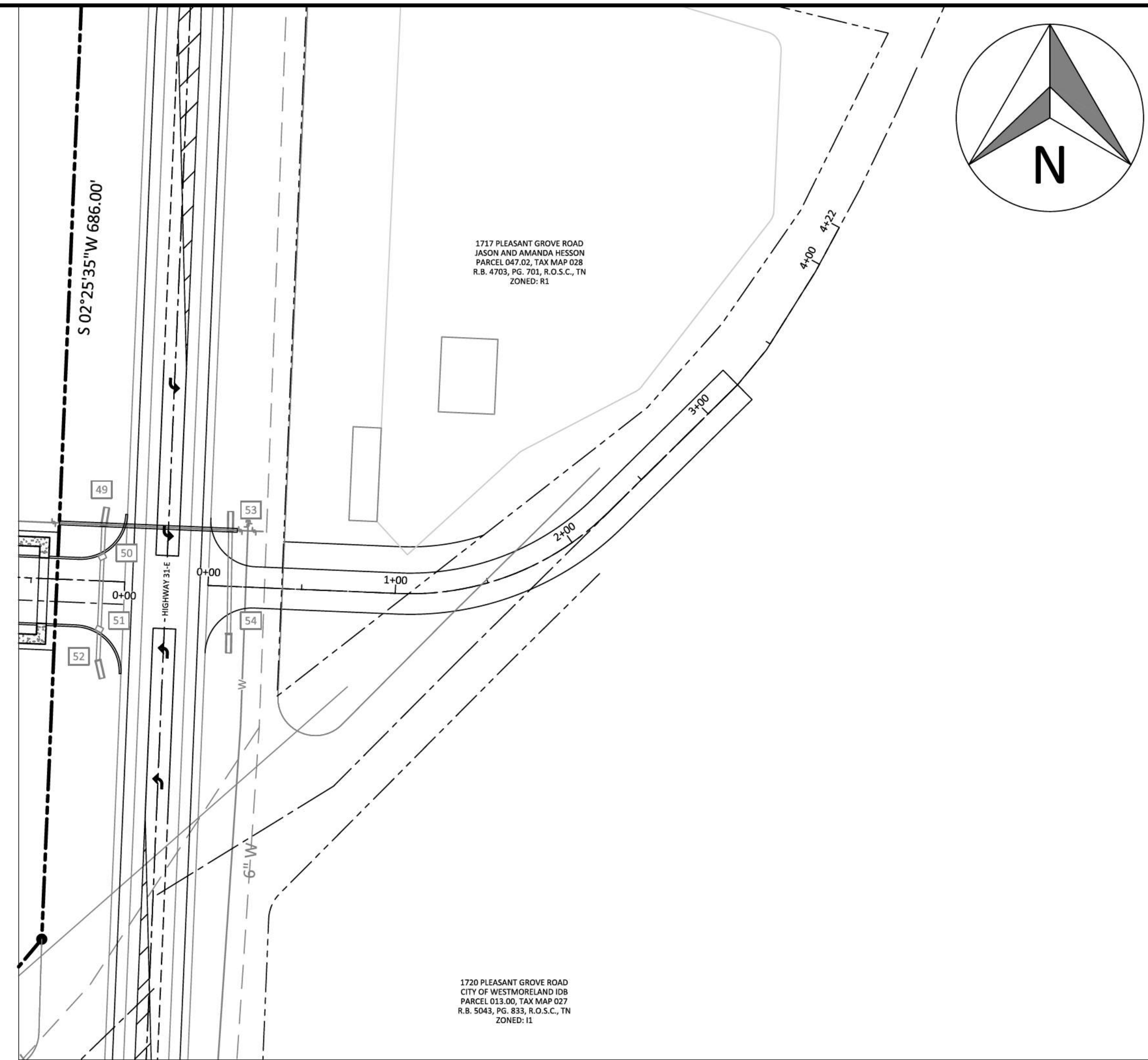
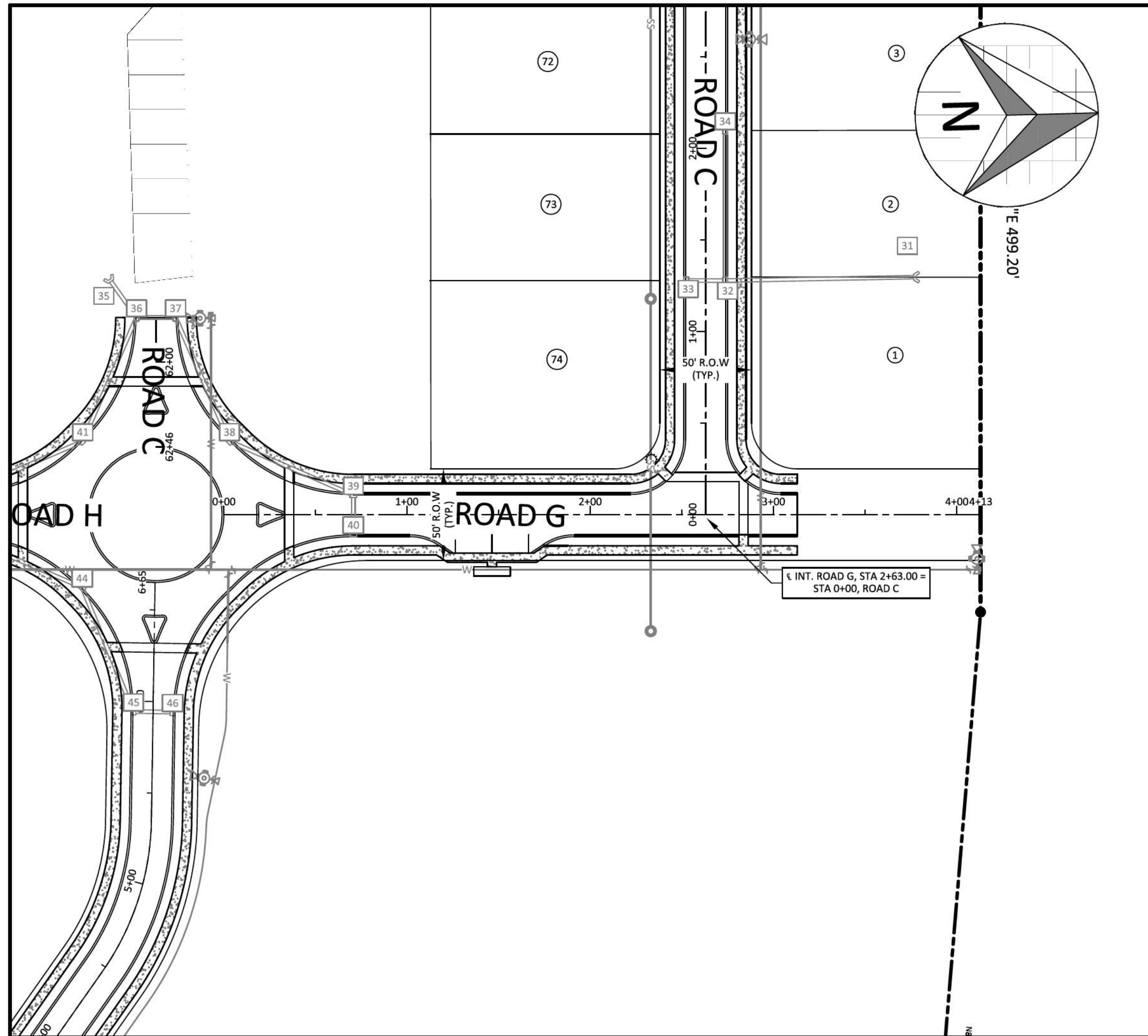
NO.	DATE	REVISION	PER CITY COMMENTS
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2	06-16-2022		
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5	02-07-2023		

SHEET NO. C 5.1

SHEET 14 OF 47

JOB# 21.112G 23 MARCH 2022





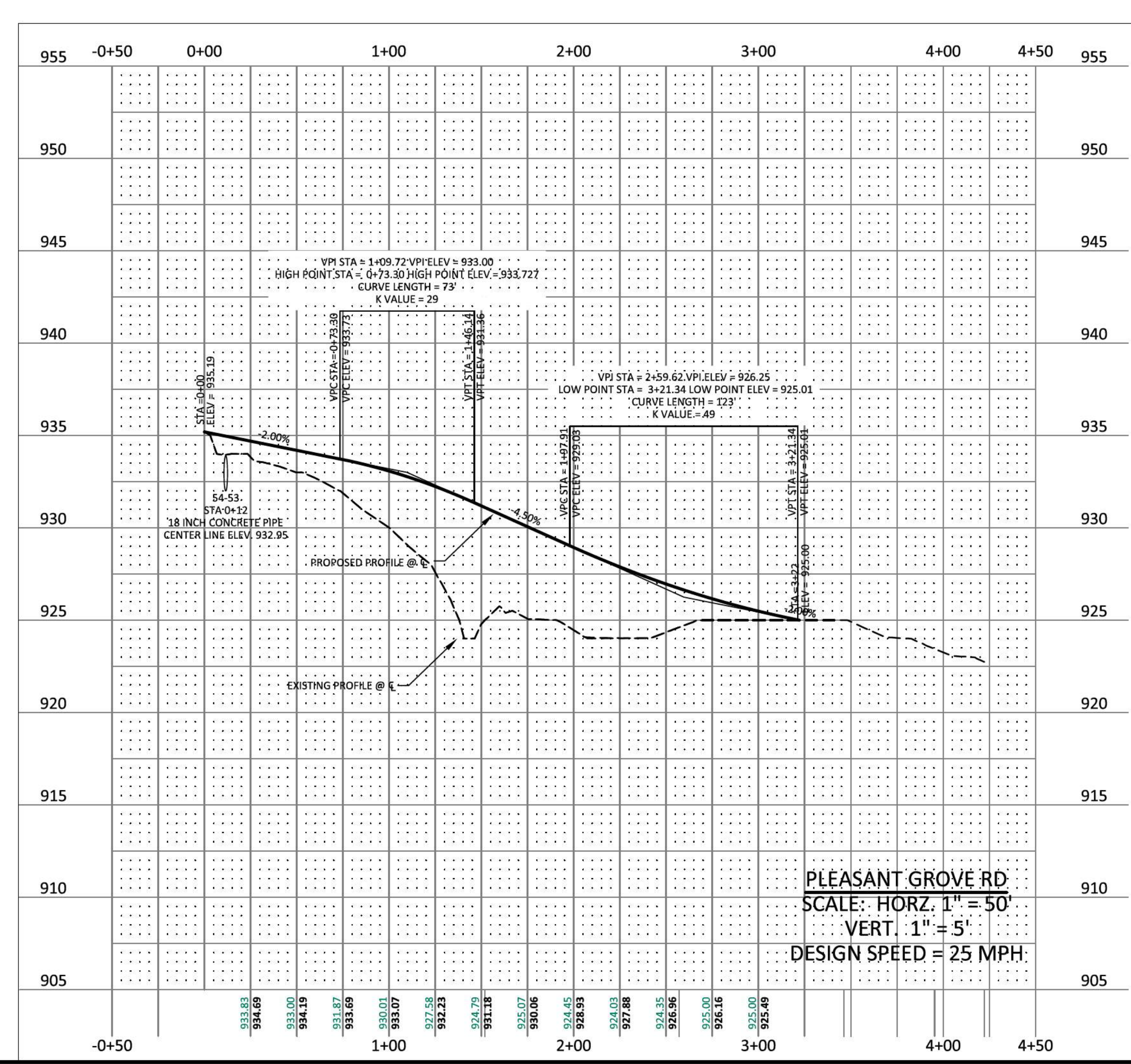
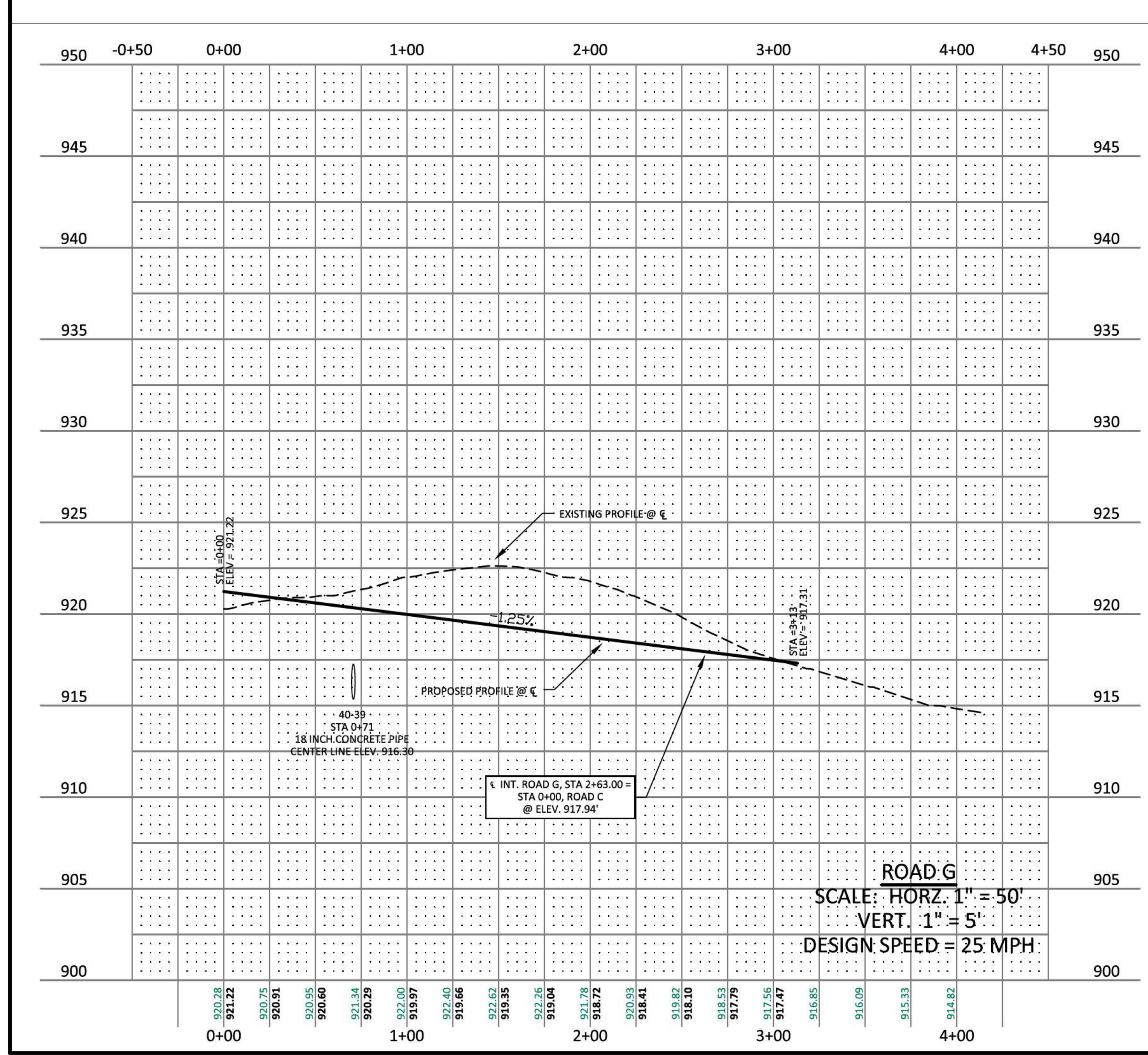
- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
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PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

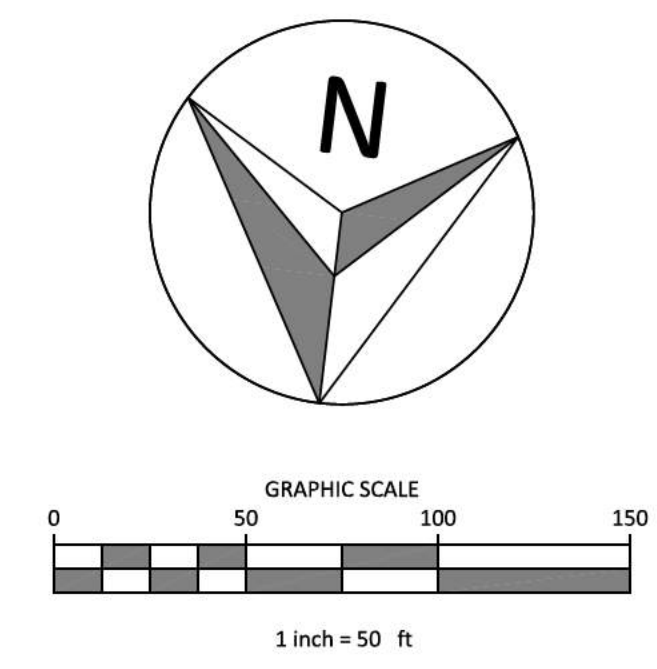
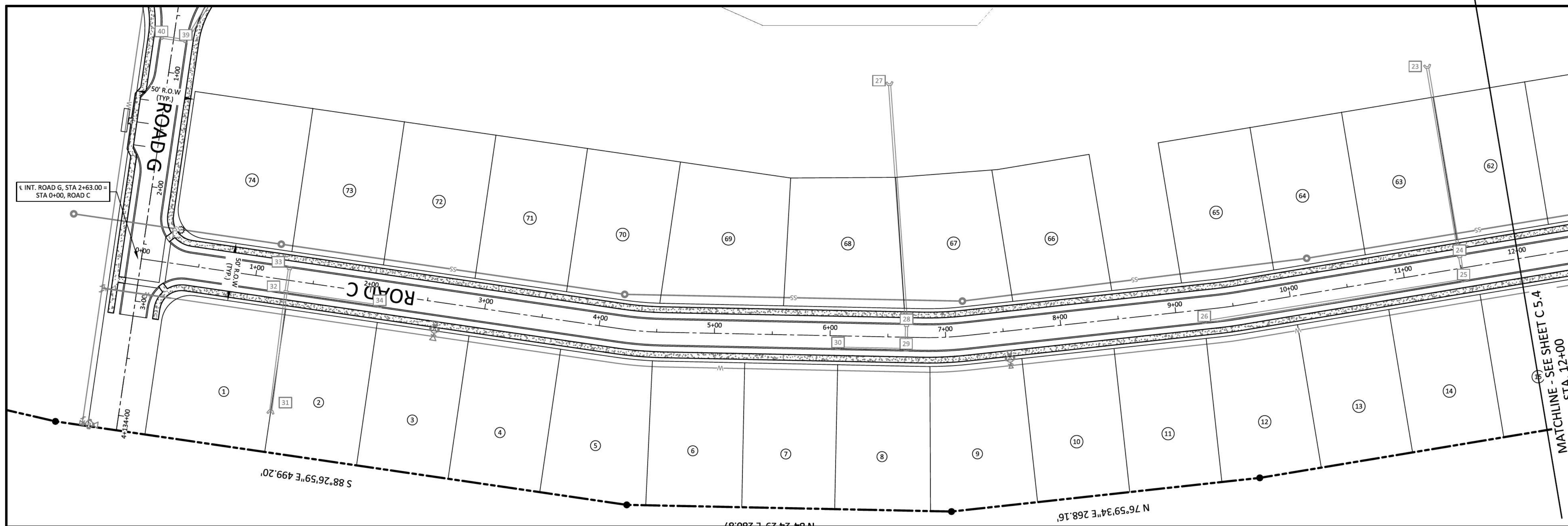
ROAD G PROFILE



INSTALLATION OF THE UTILITIES SHOWN HEREON WILL REQUIRE AN EXCAVATION PERMIT WITH THE CITY ENGINEERING DEPARTMENT TO WORK WITHIN PUBLIC RIGHT-OF-WAY. PAVEMENT SHALL BE REPAIRED AS PER THE STANDARD ROAD TRENCH/PAVEMENT REPAIR DETAIL.

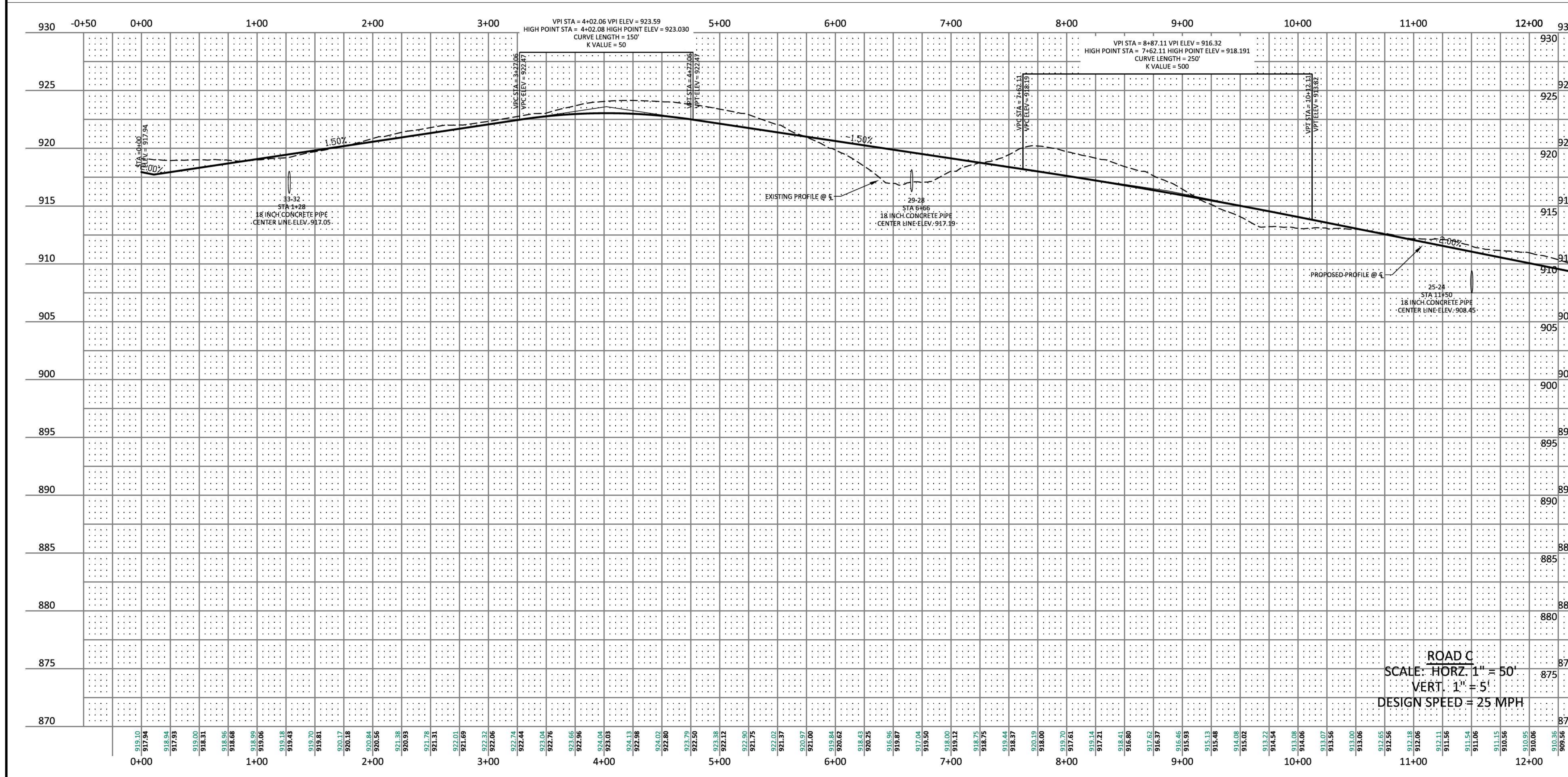
NO.	DATE	REVISION	PER CITY COMMENTS
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2	06-16-2022		
3	08-25-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C 5.2
 SHEET 15 OF 47
 JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
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ROAD C
 SCALE: **HORZ. 1" = 50'**
VERT. 1" = 5'
 DESIGN SPEED = 25 MPH

INSTALLATION OF THE UTILITIES SHOWN HEREON WILL REQUIRE AN EXCAVATION PERMIT WITH THE CITY ENGINEERING DEPARTMENT TO WORK WITHIN PUBLIC RIGHT-OF-WAY. PAVEMENT SHALL BE REPAIRED AS PER THE STANDARD ROAD TRENCH/PAVEMENT REPAIR DETAIL.



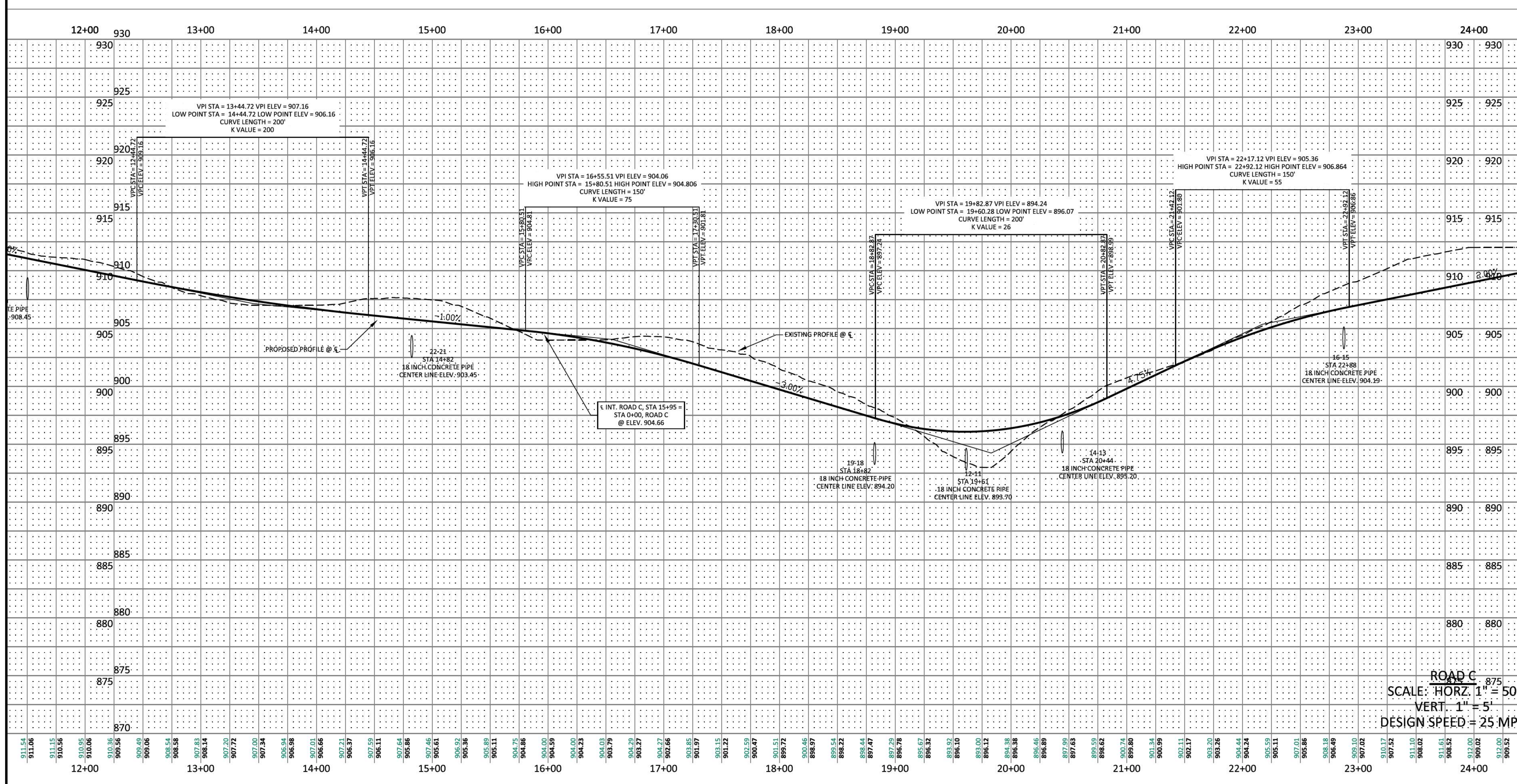
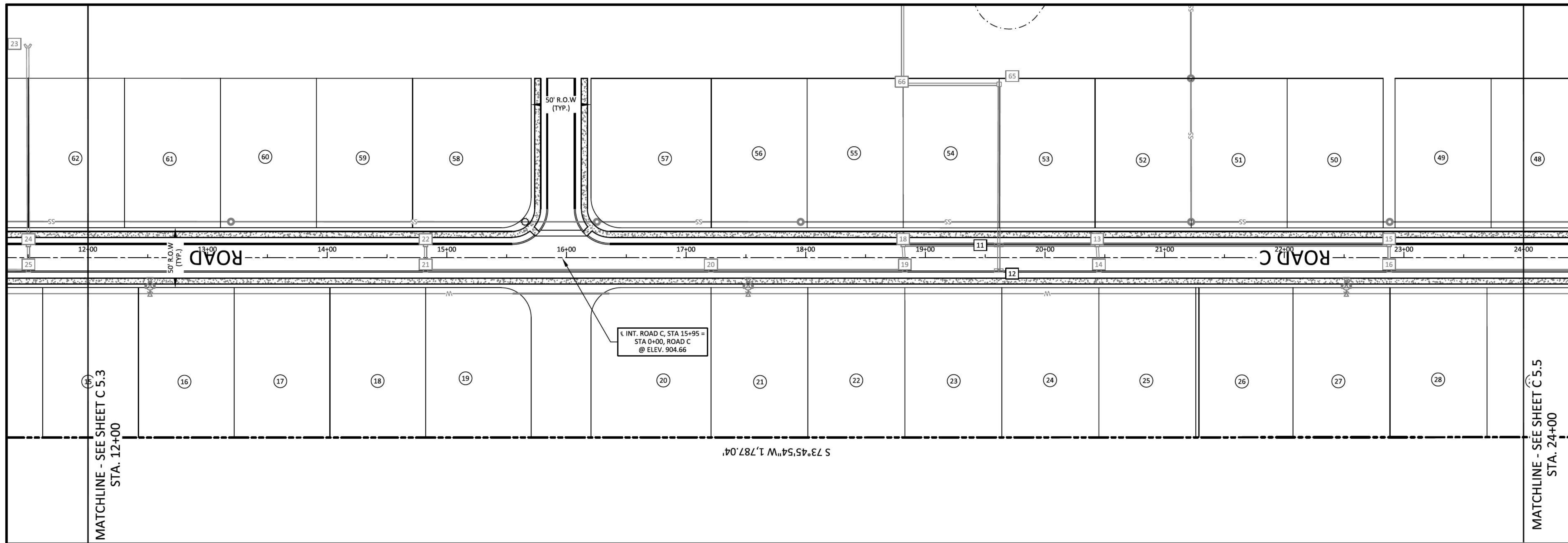
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PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

ROAD C PROFILE

NO.	DATE	REVISION
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2	06-16-2022	PER CITY COMMENTS
3	08-23-2022	PER CITY COMMENTS
4	10-25-2022	PER CITY COMMENTS
5	02-07-2023	PER CITY COMMENTS

SHEET NO. C 5.3
 SHEET 16 OF 47
 JOB# 21.112G 23 MARCH 2022



ROAD C
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'
 DESIGN SPEED = 25 MPH

INSTALLATION OF THE UTILITIES SHOWN HEREON WILL REQUIRE AN EXCAVATION PERMIT WITH THE CITY ENGINEERING DEPARTMENT TO WORK WITHIN PUBLIC RIGHT-OF-WAY. PAVEMENT SHALL BE REPAIRED AS PER THE STANDARD ROAD TRENCH/PAVEMENT REPAIR DETAIL.



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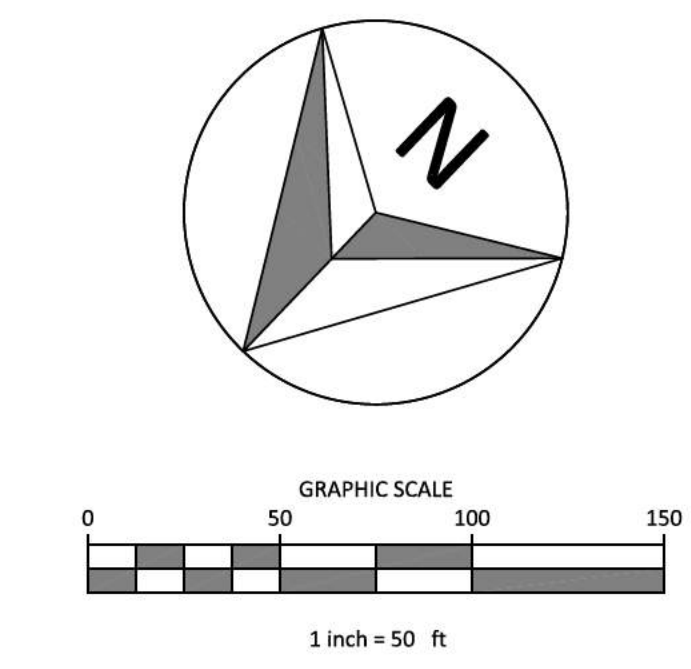
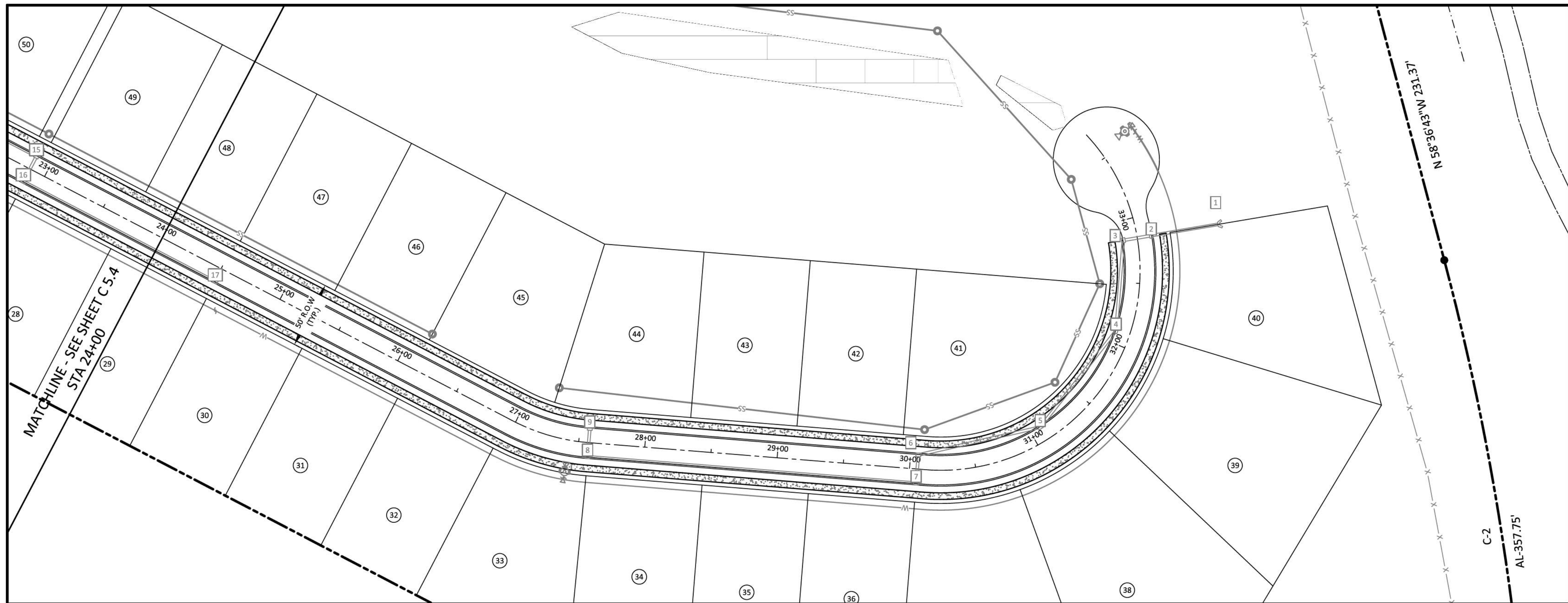


PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

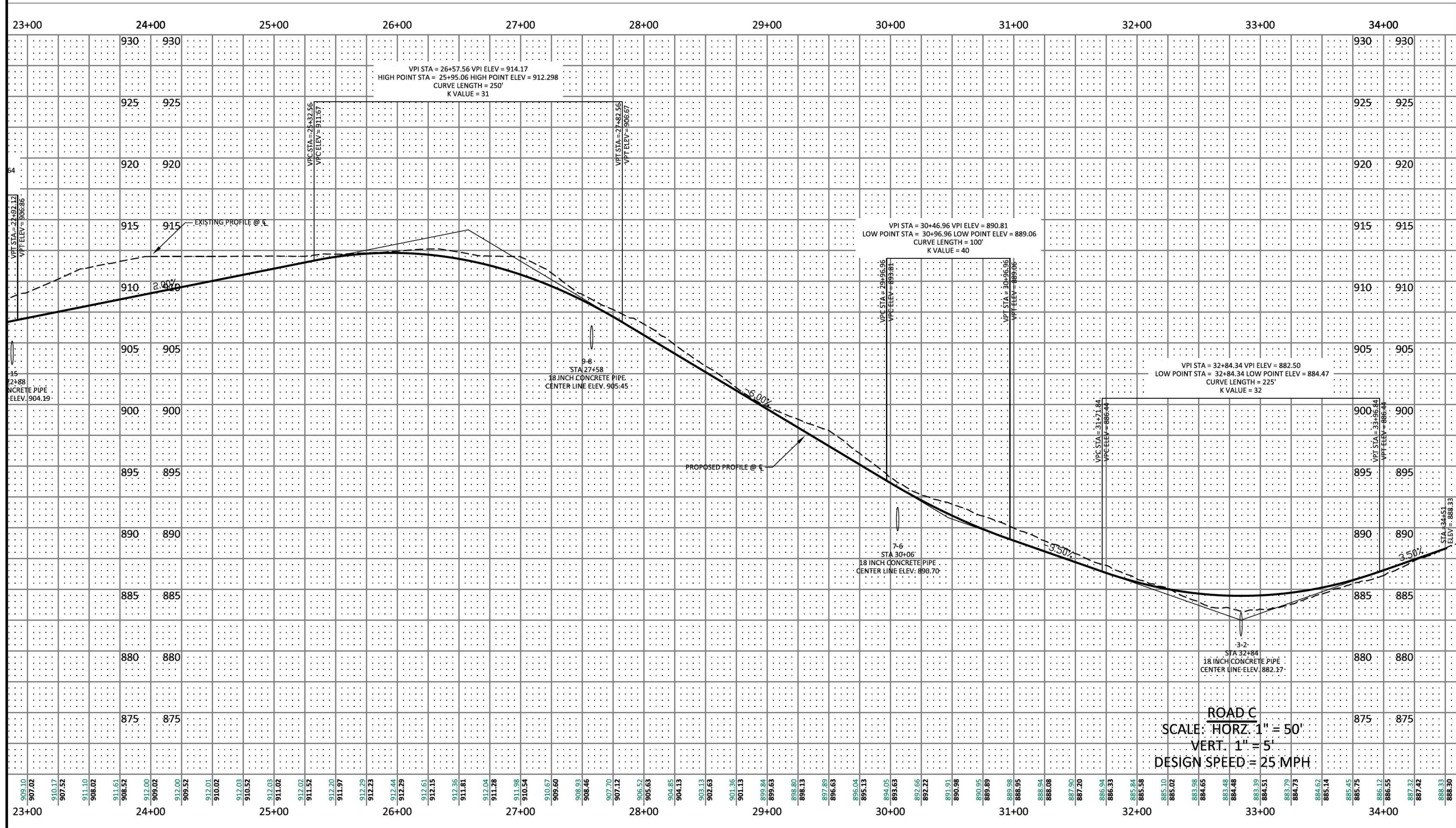
ROAD C PROFILE

NO.	DATE	REVISION	PER CITY COMMENTS
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2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO.
C 5.4
 SHEET 17 OF 47
 JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
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INSTALLATION OF THE UTILITIES SHOWN HEREON
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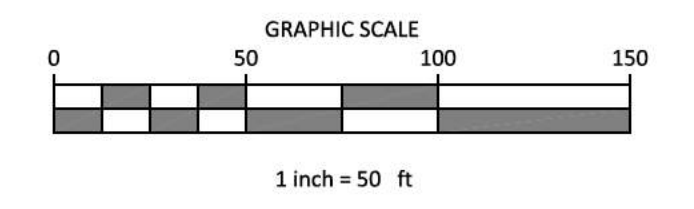
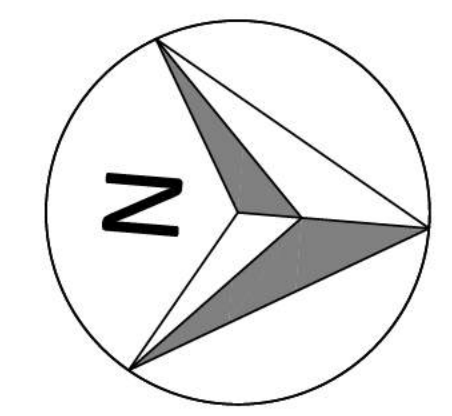
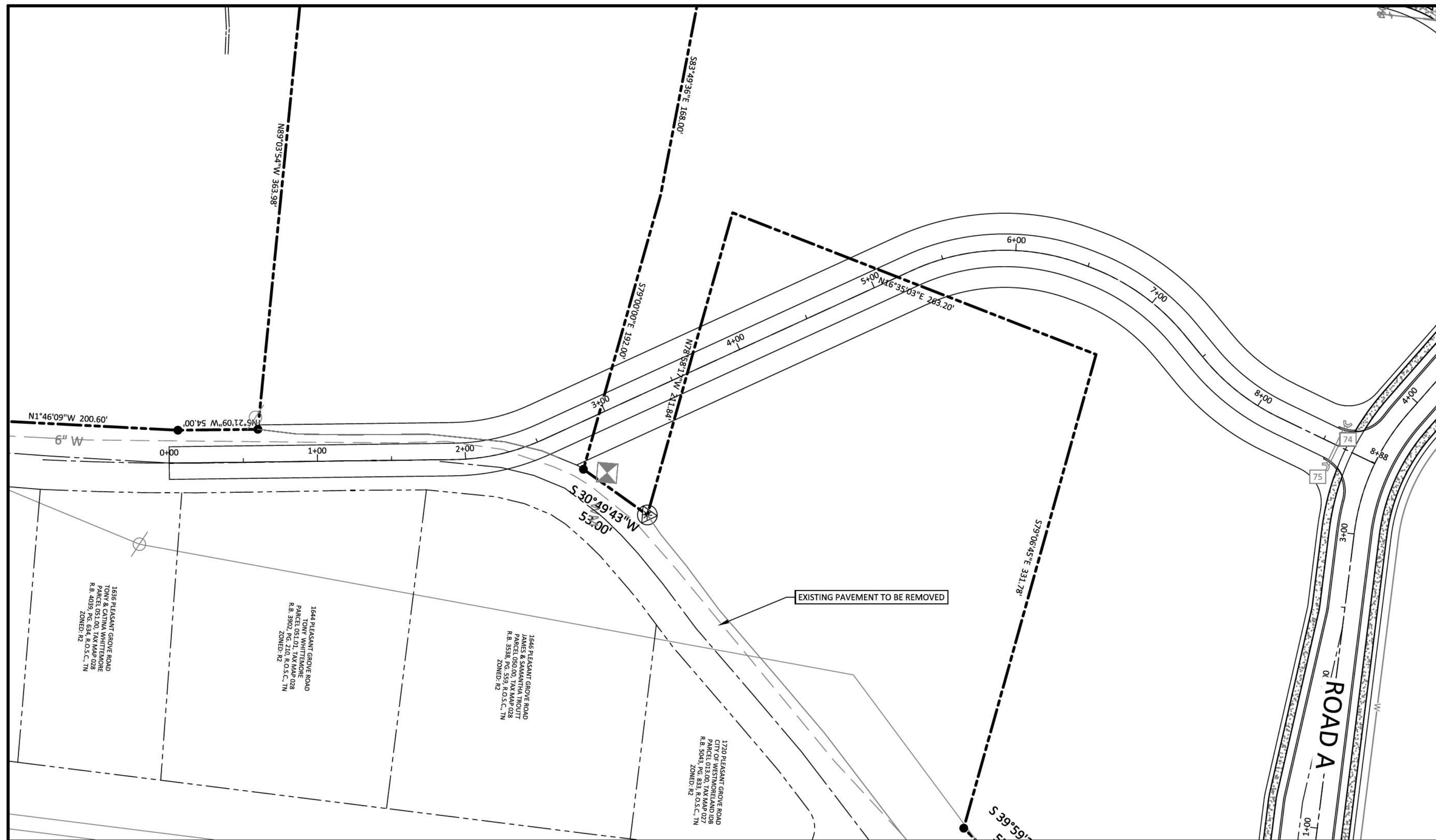


PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

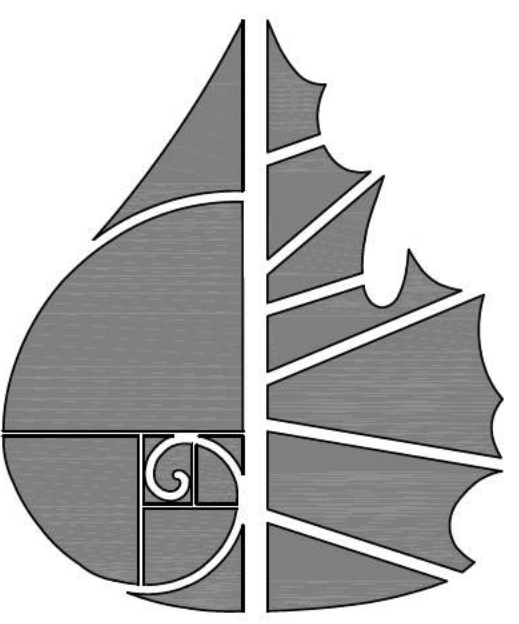
ROAD C PROFILE

NO.	DATE	REVISION	PER CITY COMMENTS
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2	06-16-2022		
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SHEET NO. C 5.5
SHEET 18 OF 47
JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
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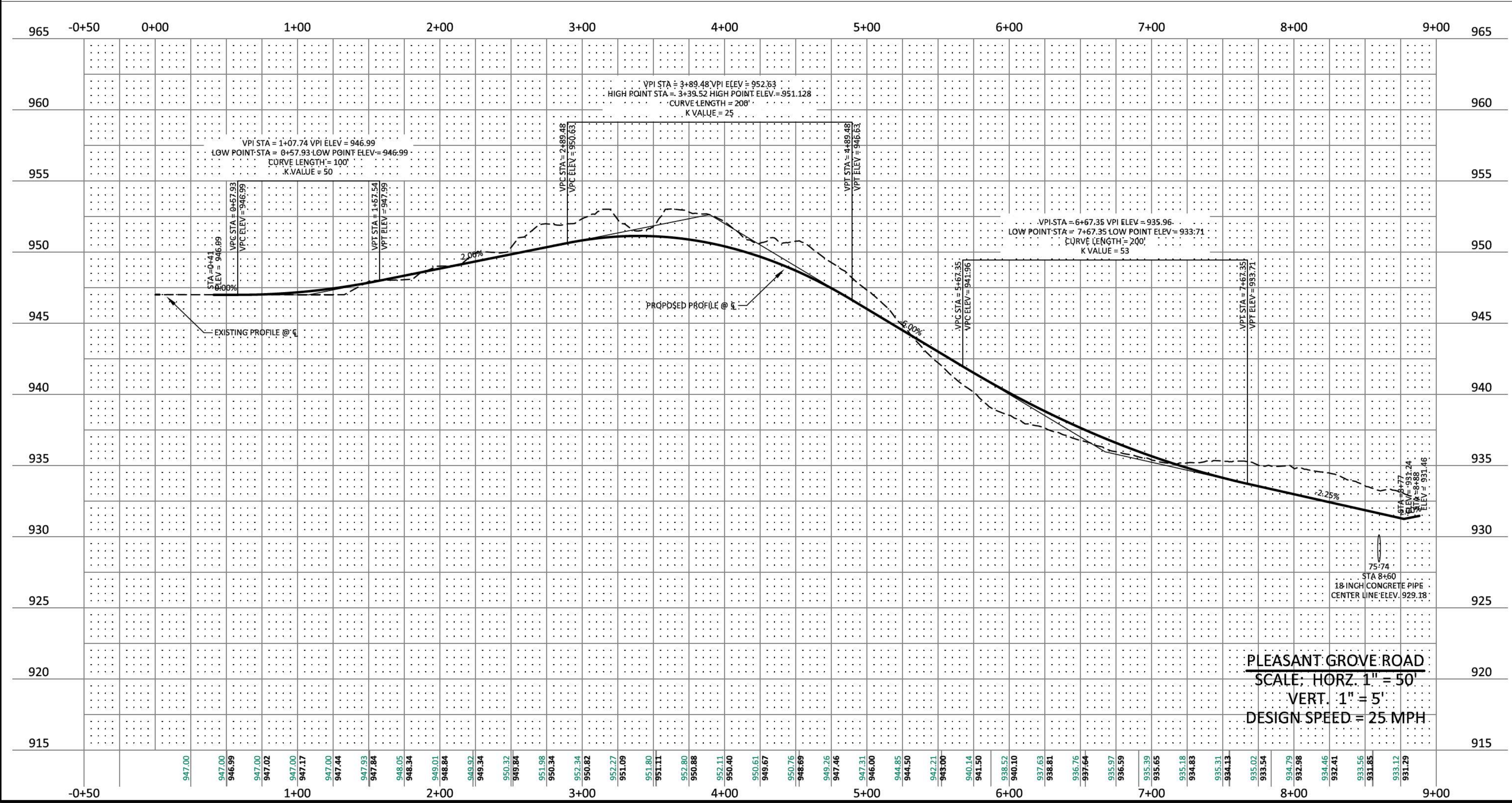
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PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

PLEASANT GROVE ROAD PROFILE



INSTALLATION OF THE UTILITIES SHOWN HEREON WILL REQUIRE AN EXCAVATION PERMIT WITH THE CITY ENGINEERING DEPARTMENT TO WORK WITHIN PUBLIC RIGHT-OF-WAY. PAVEMENT SHALL BE REPAIRED AS PER THE STANDARD ROAD TRENCH/PAVEMENT REPAIR DETAIL.

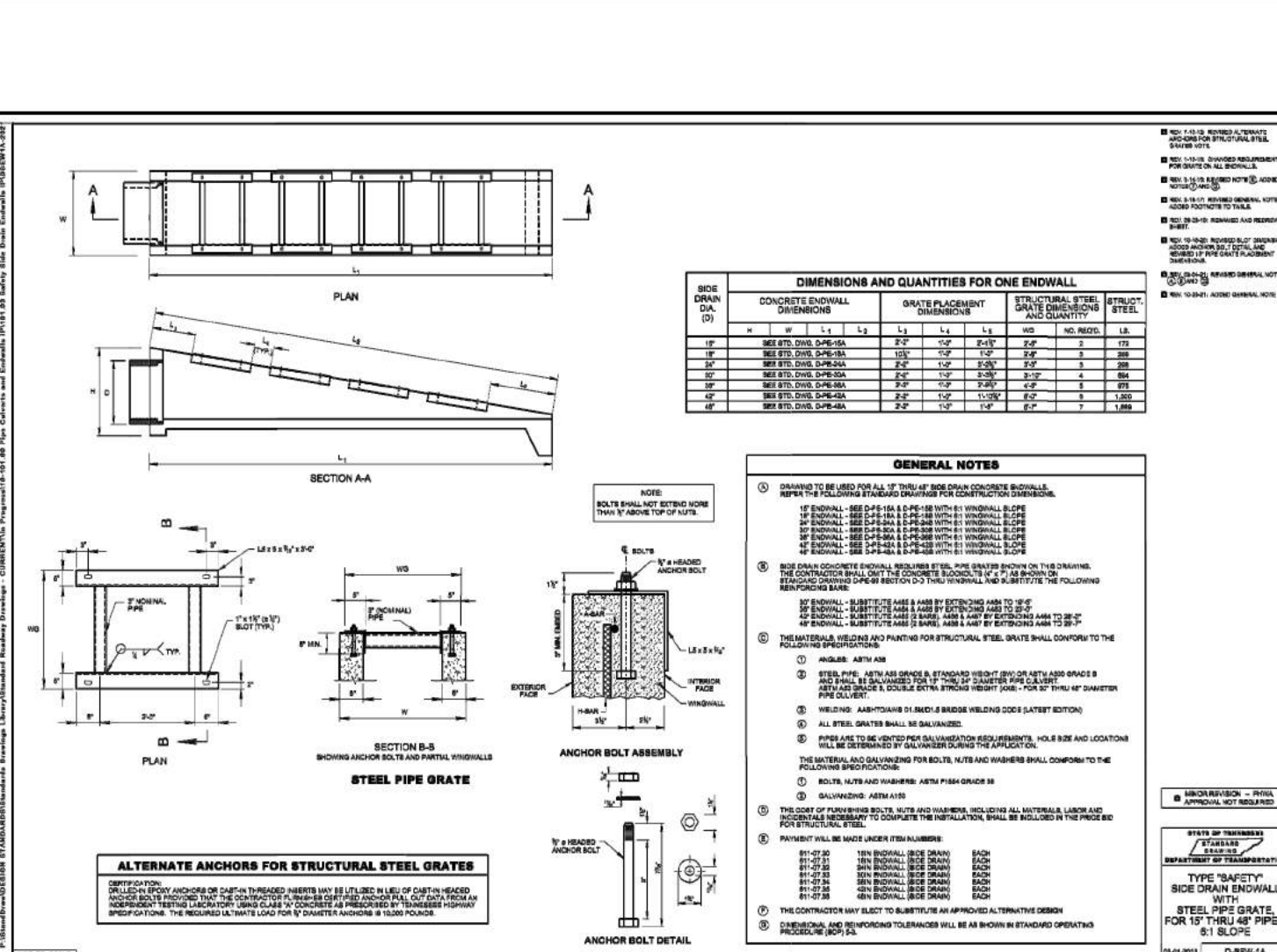
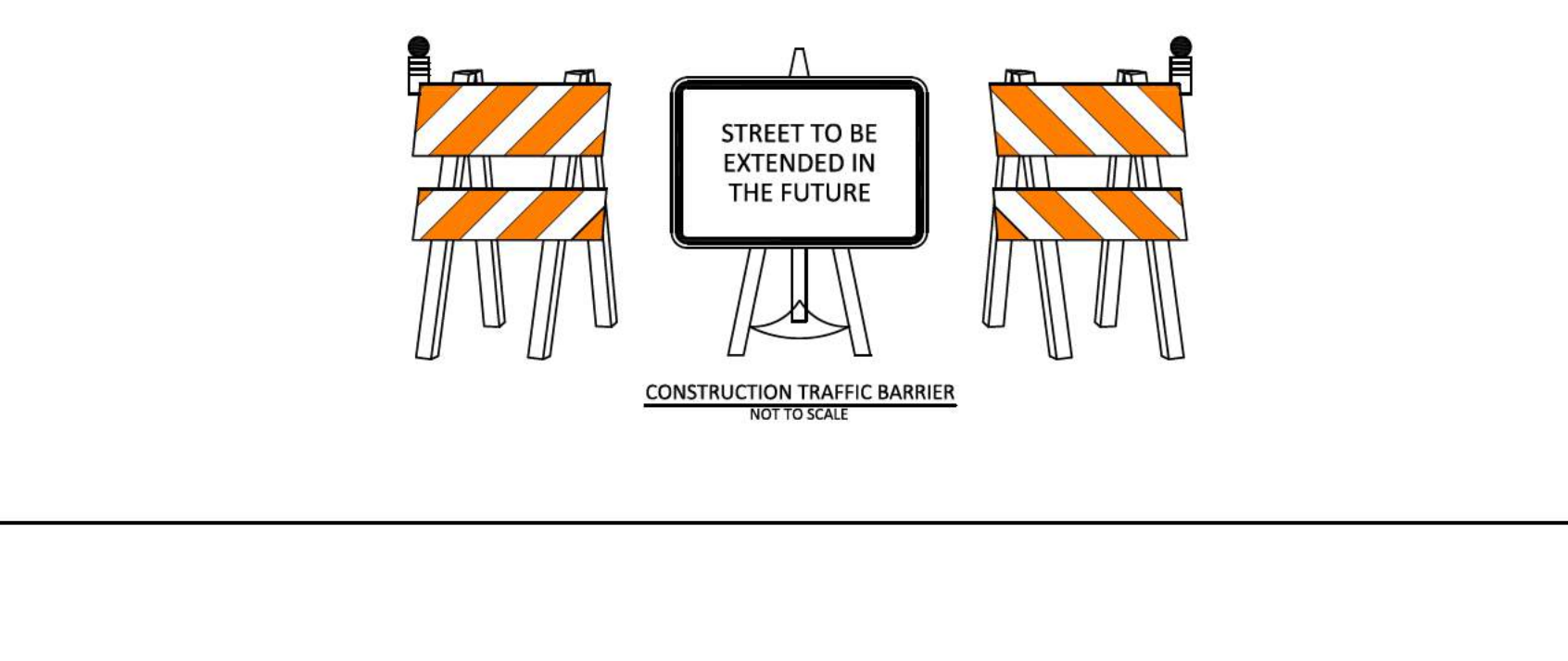
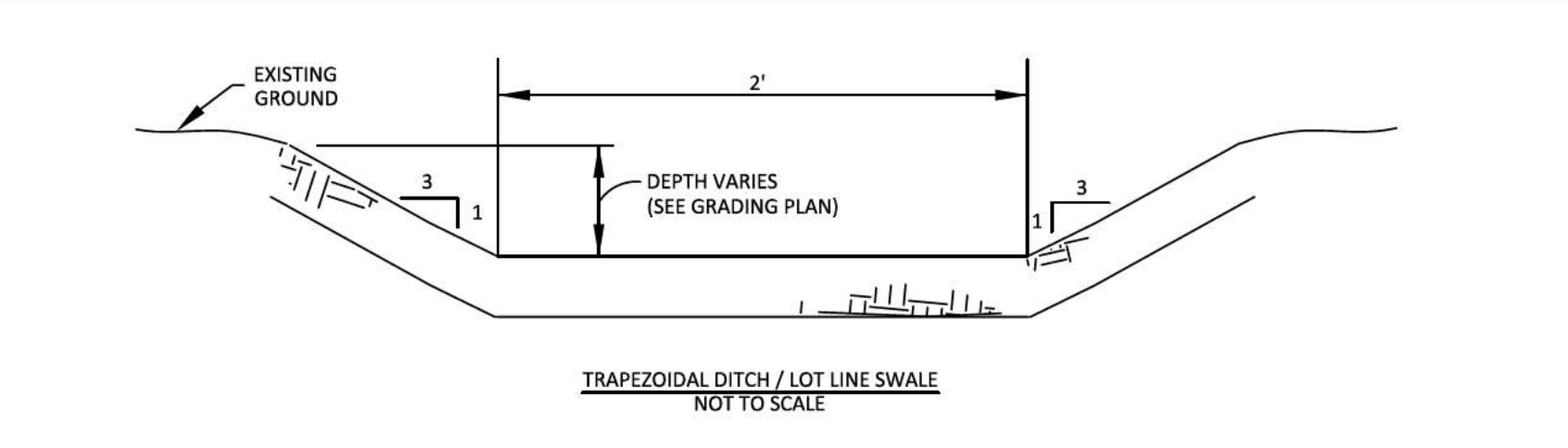
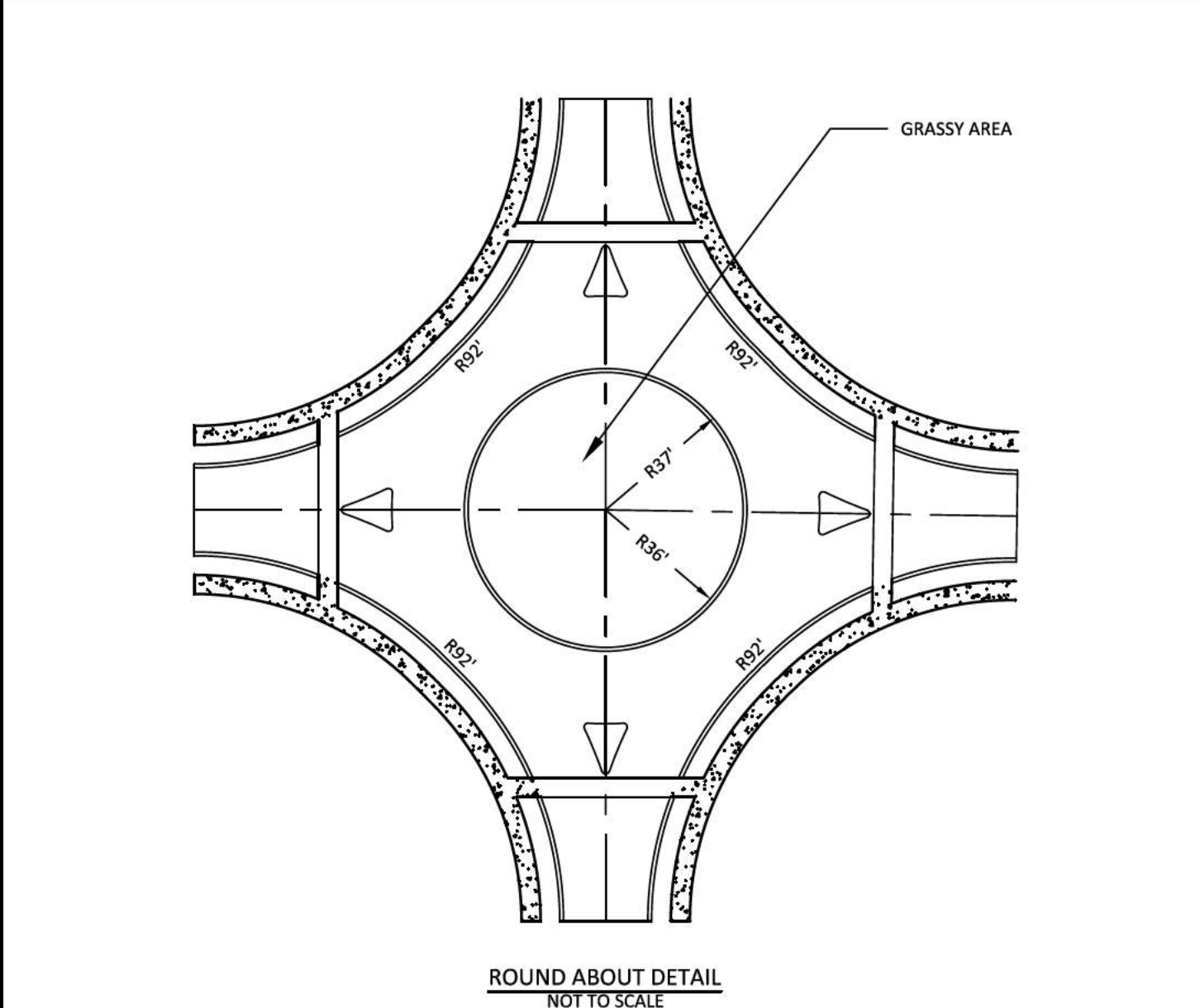
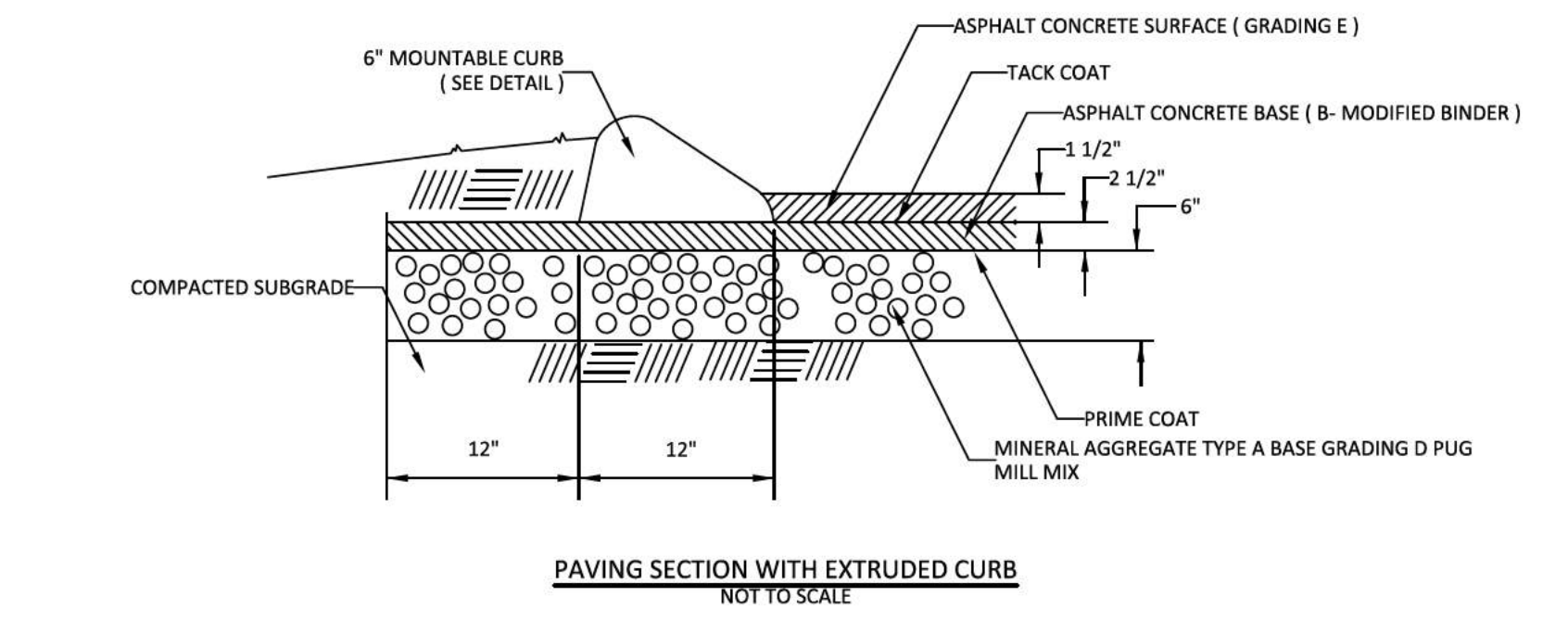
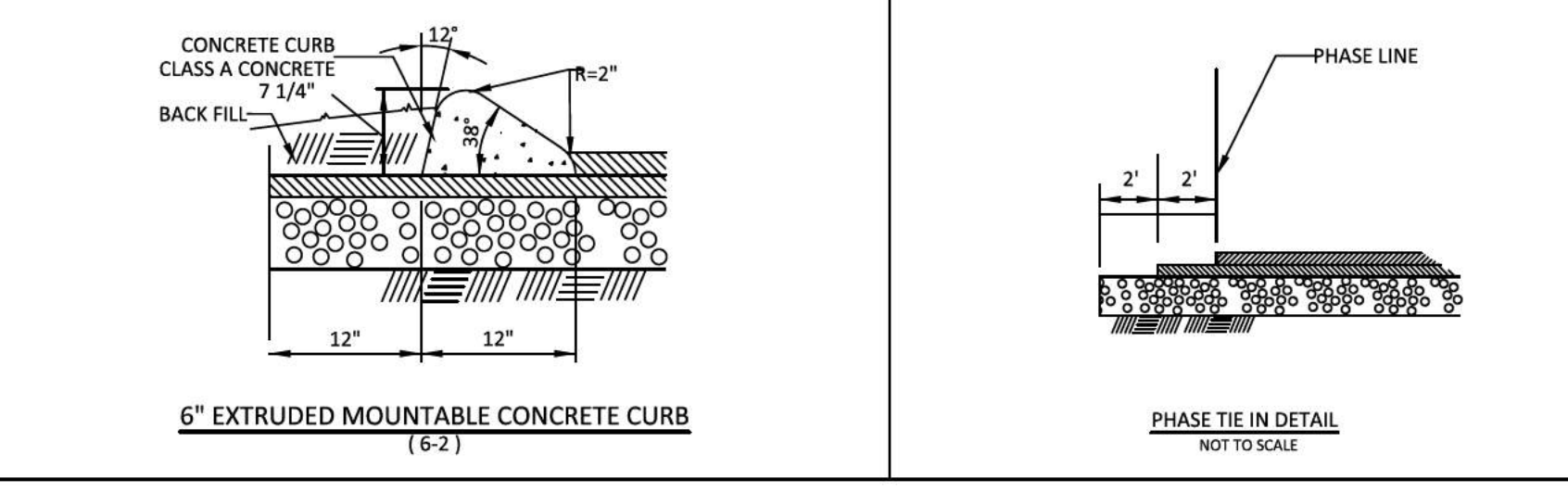
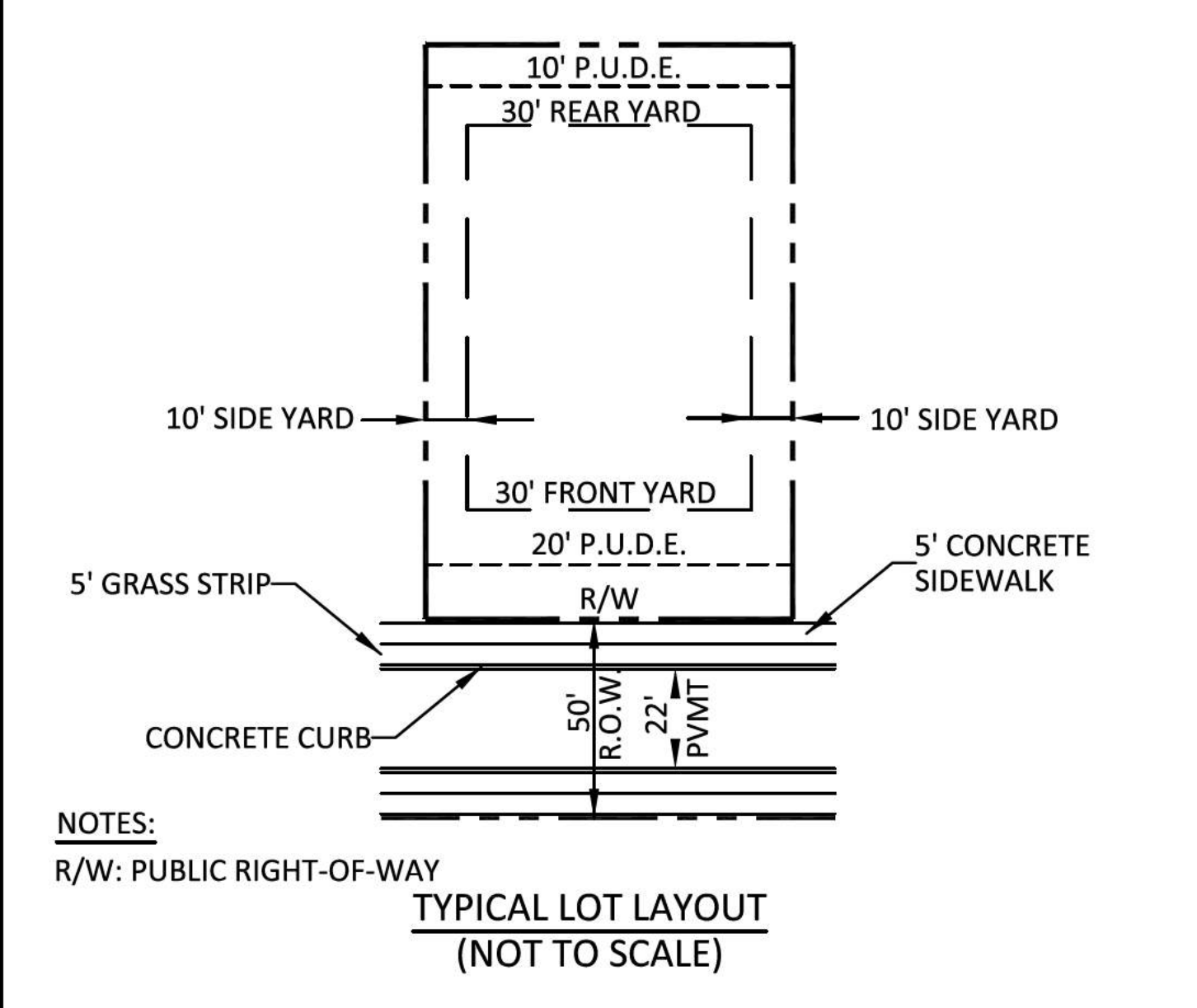
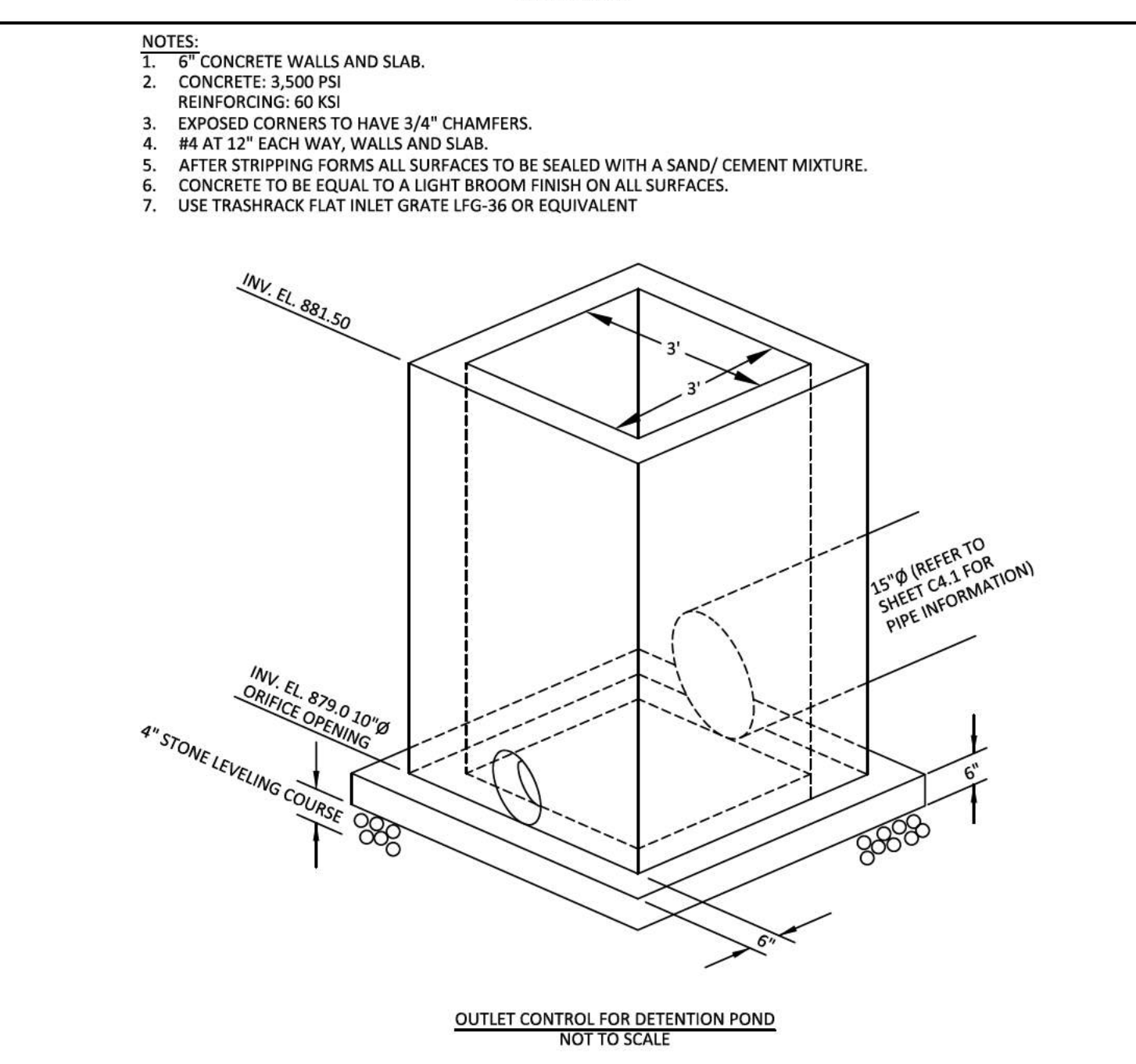
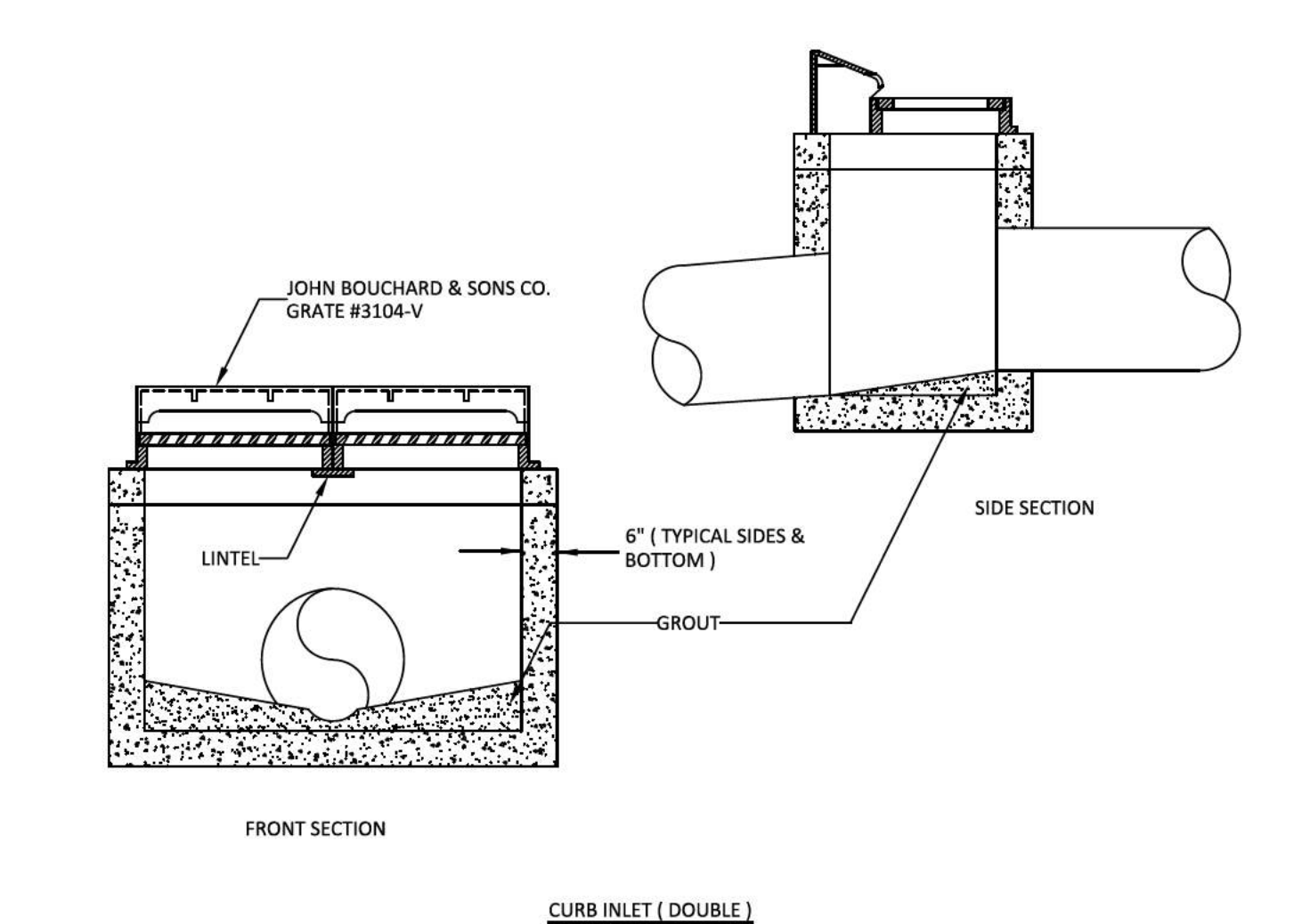
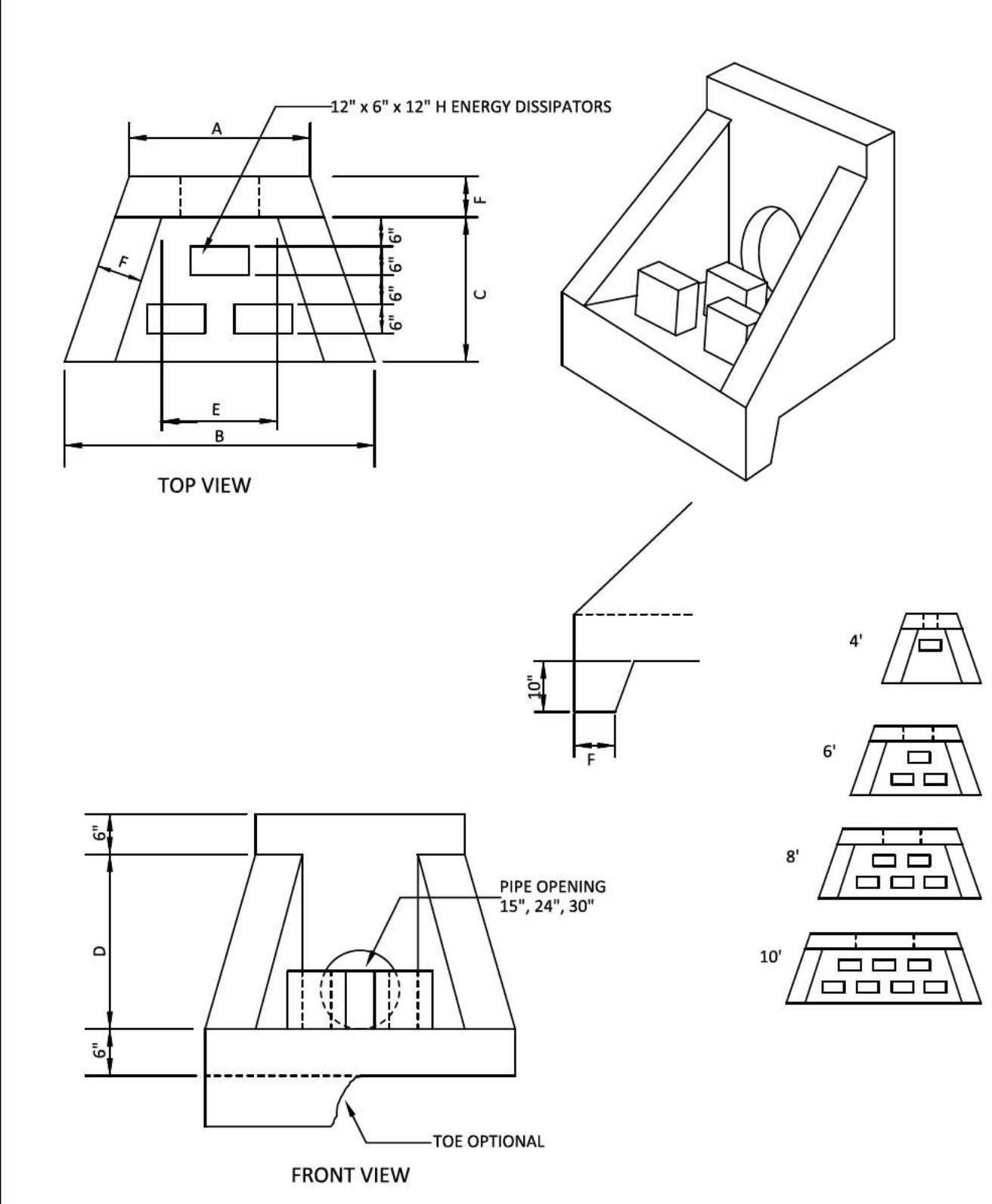
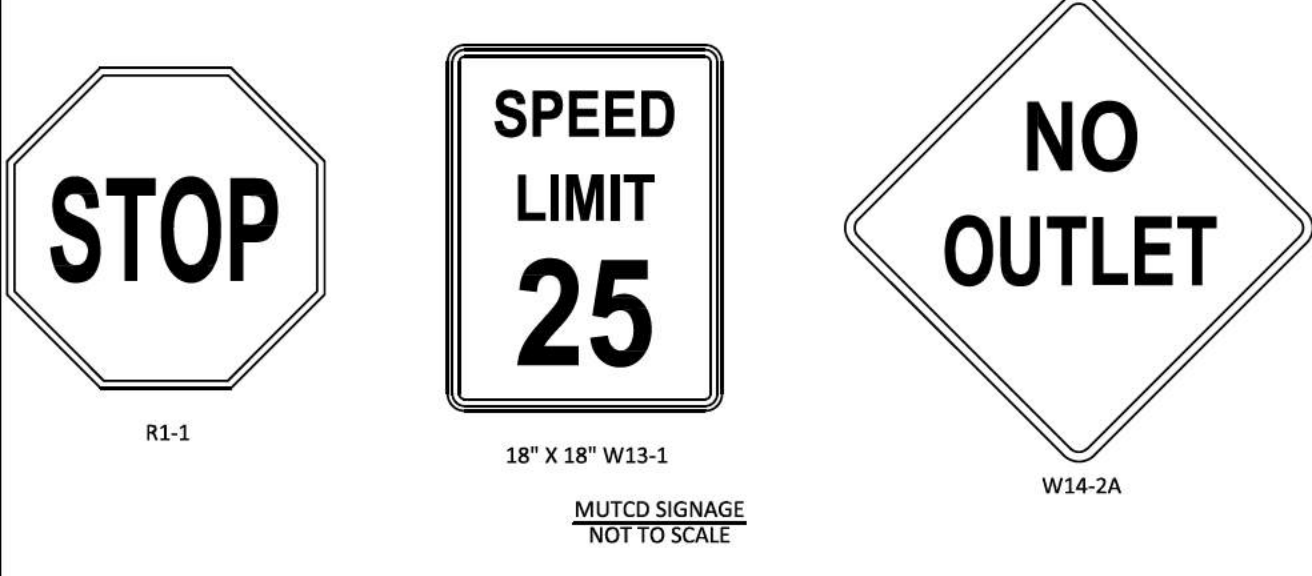
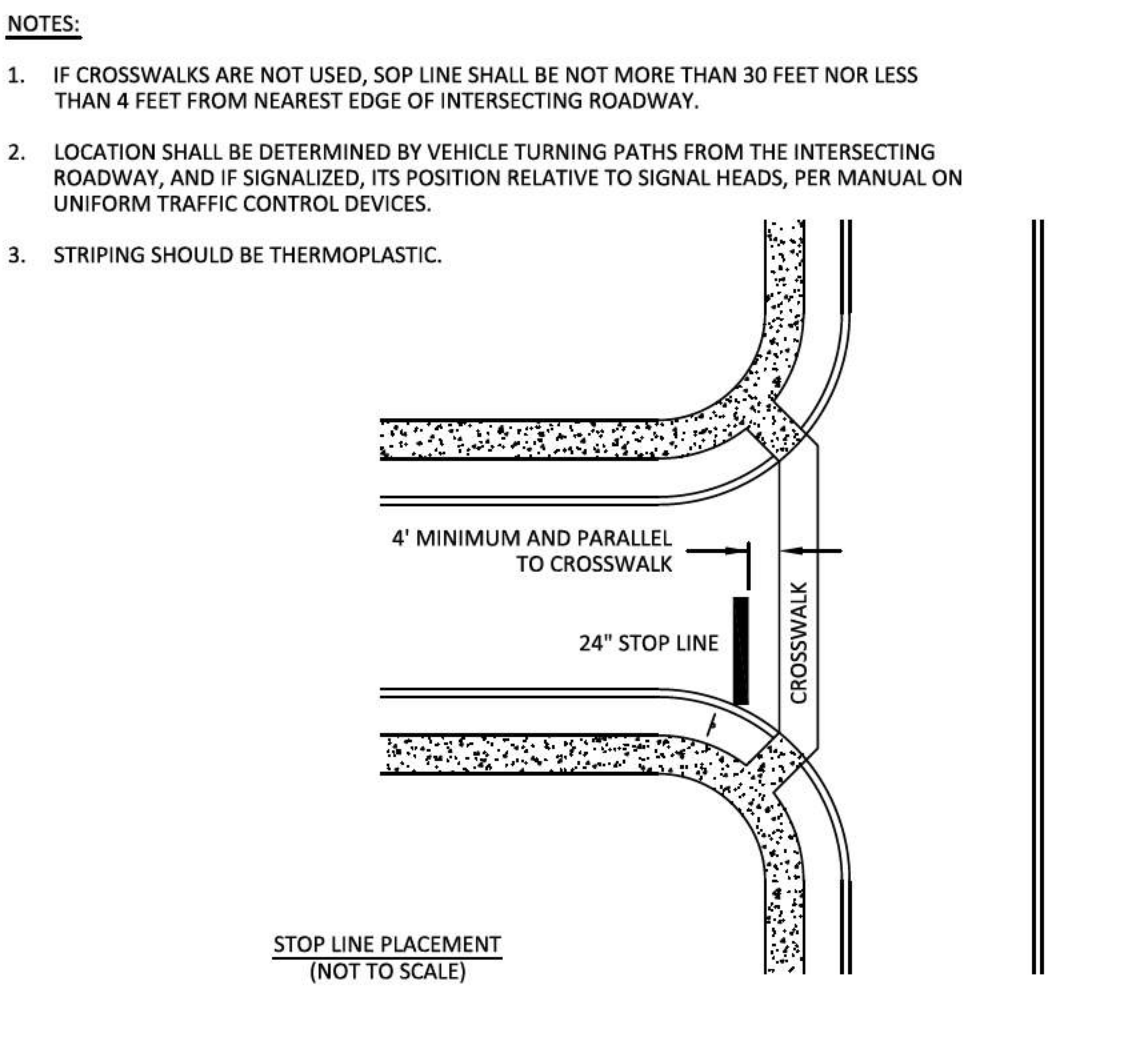
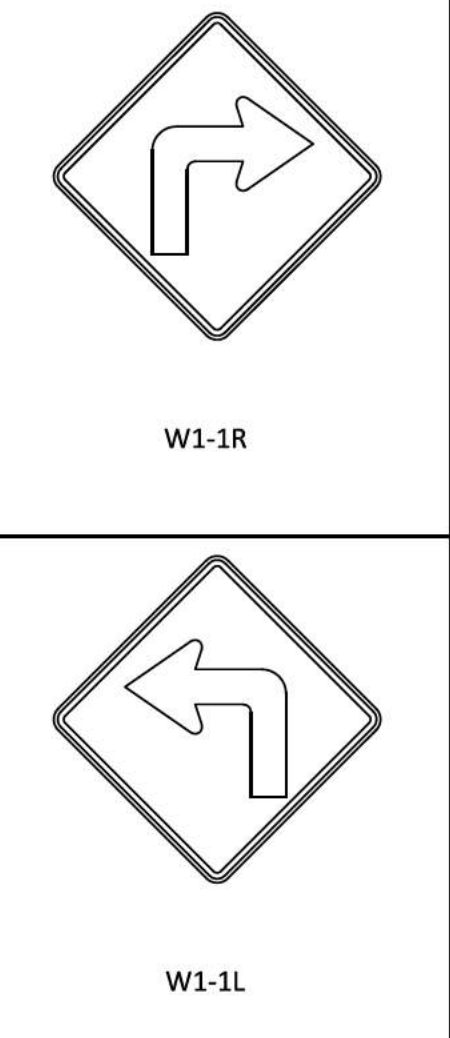
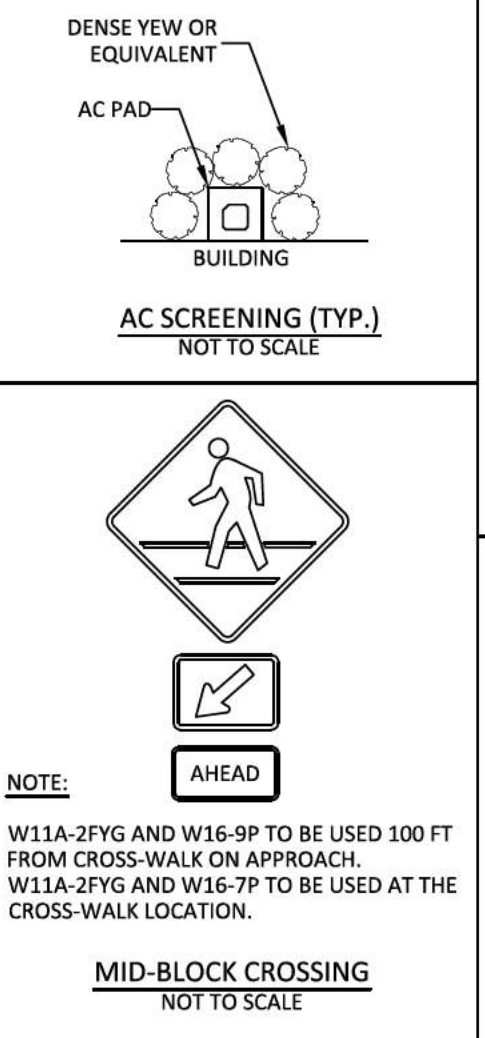
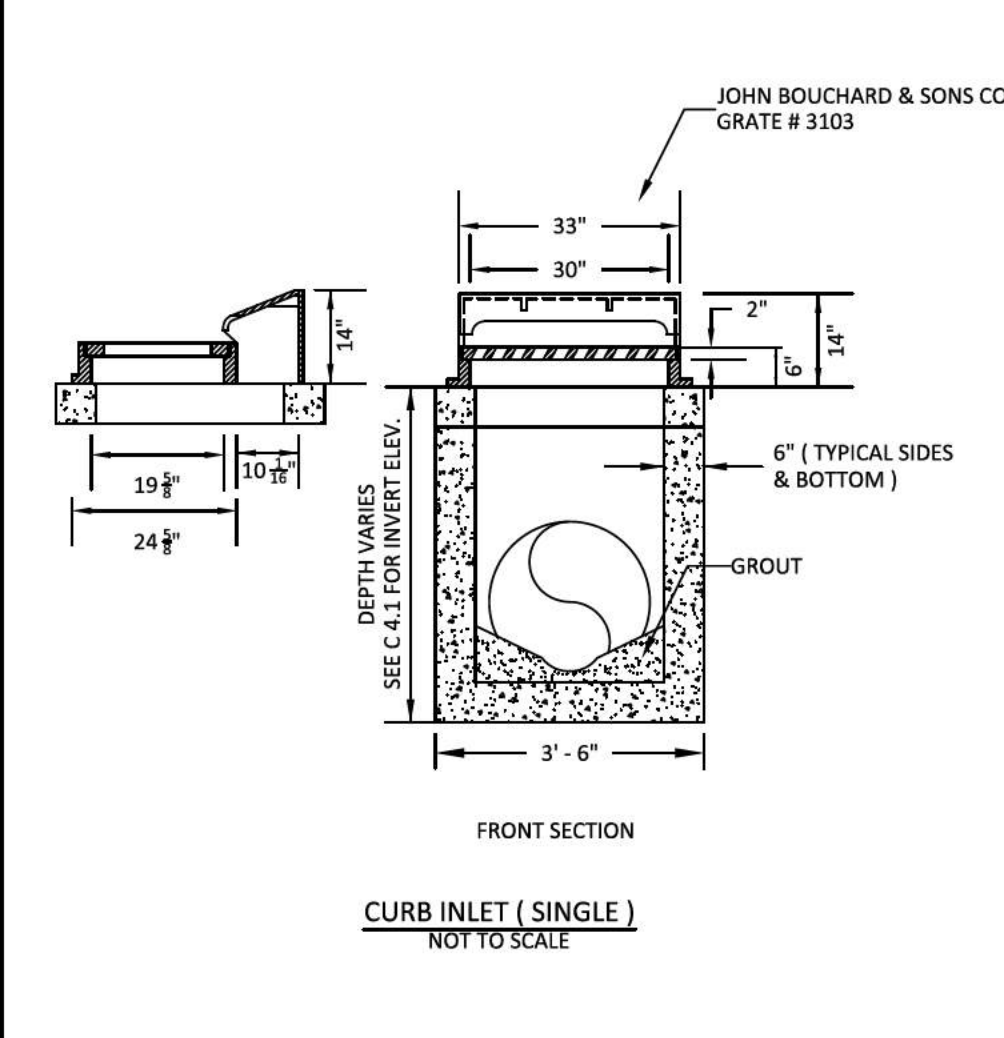
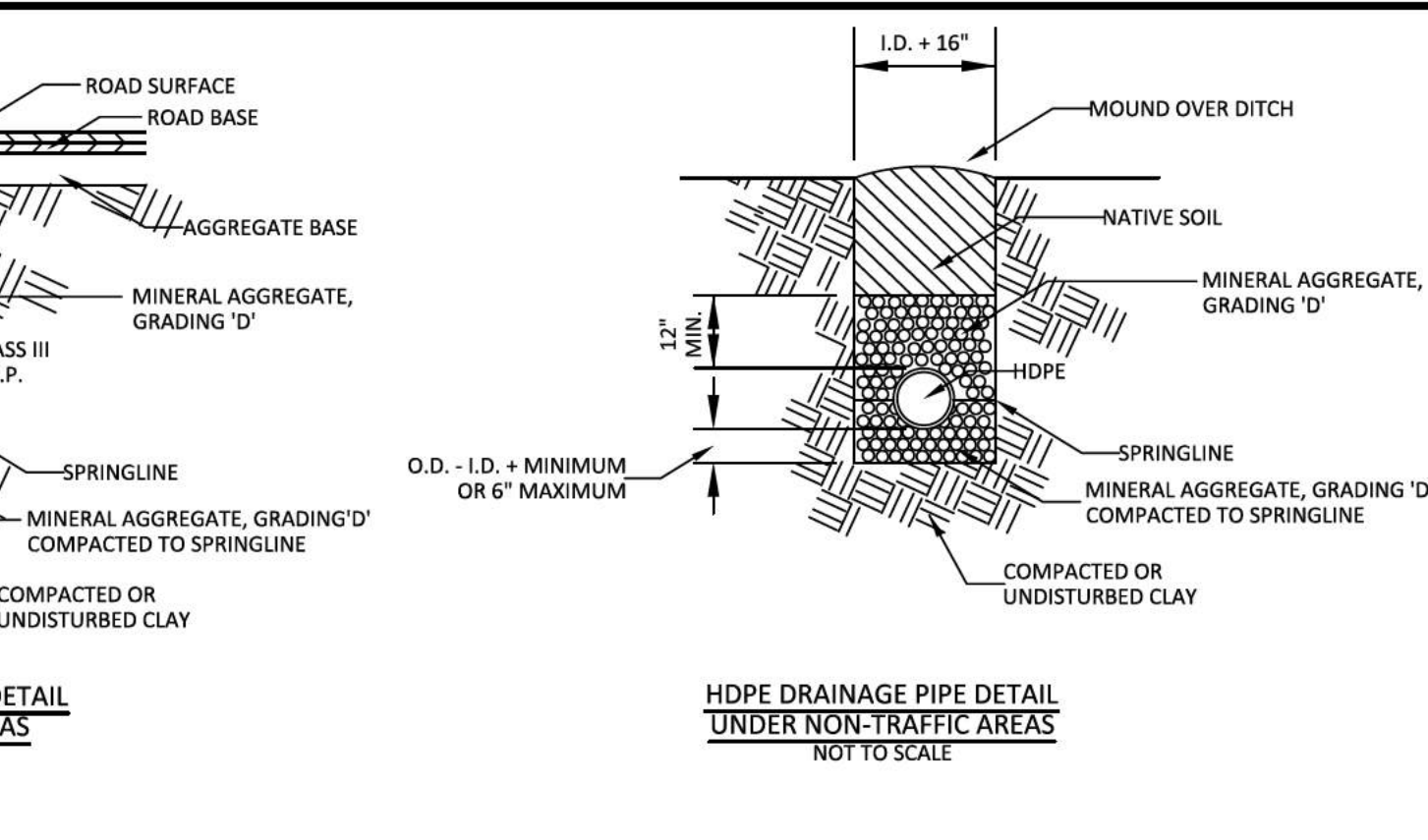
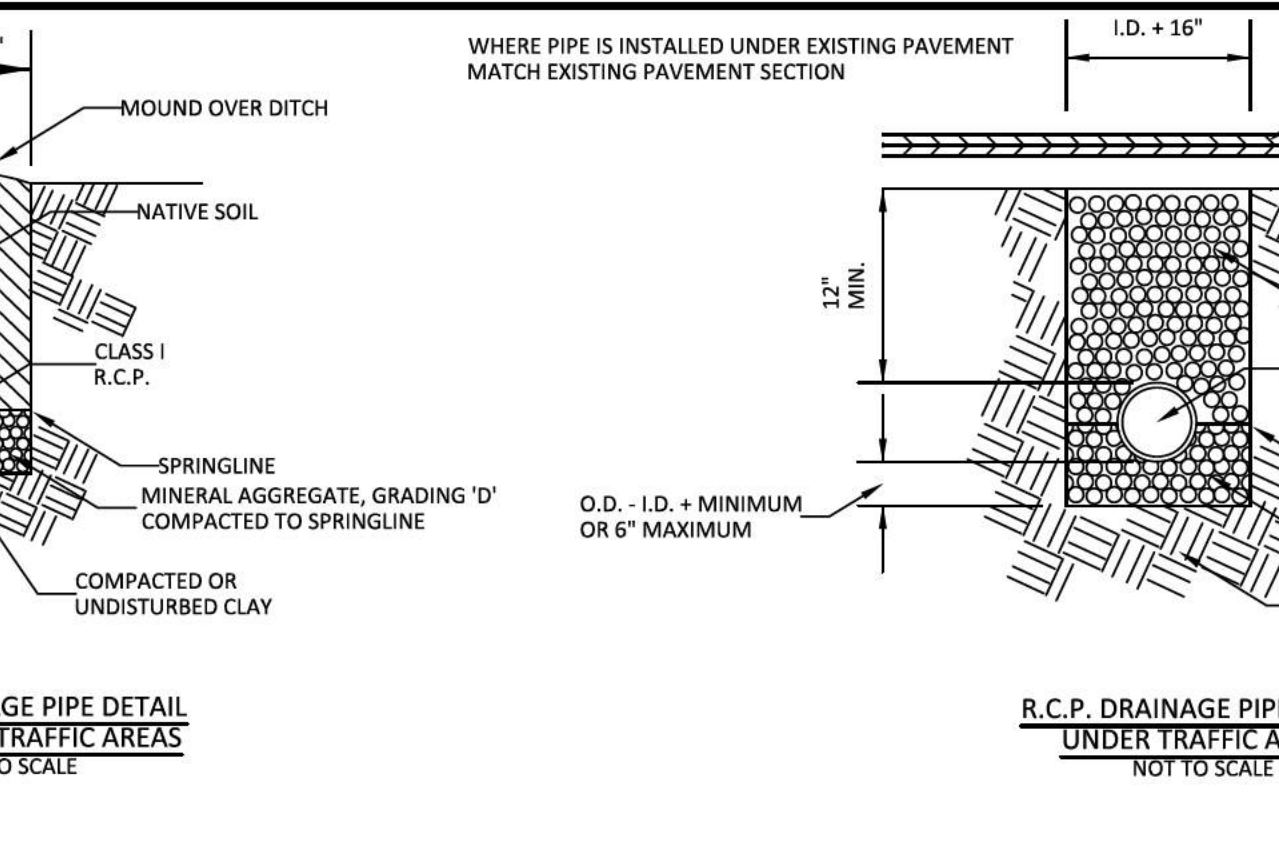
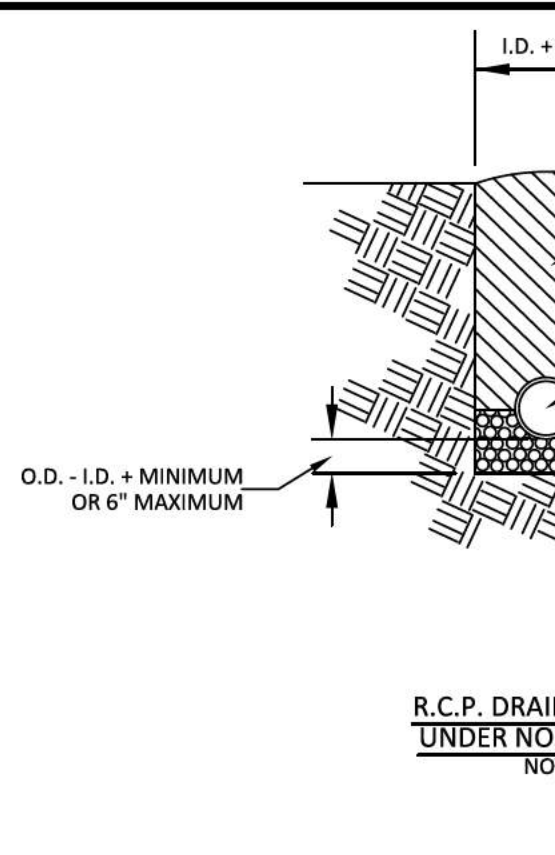
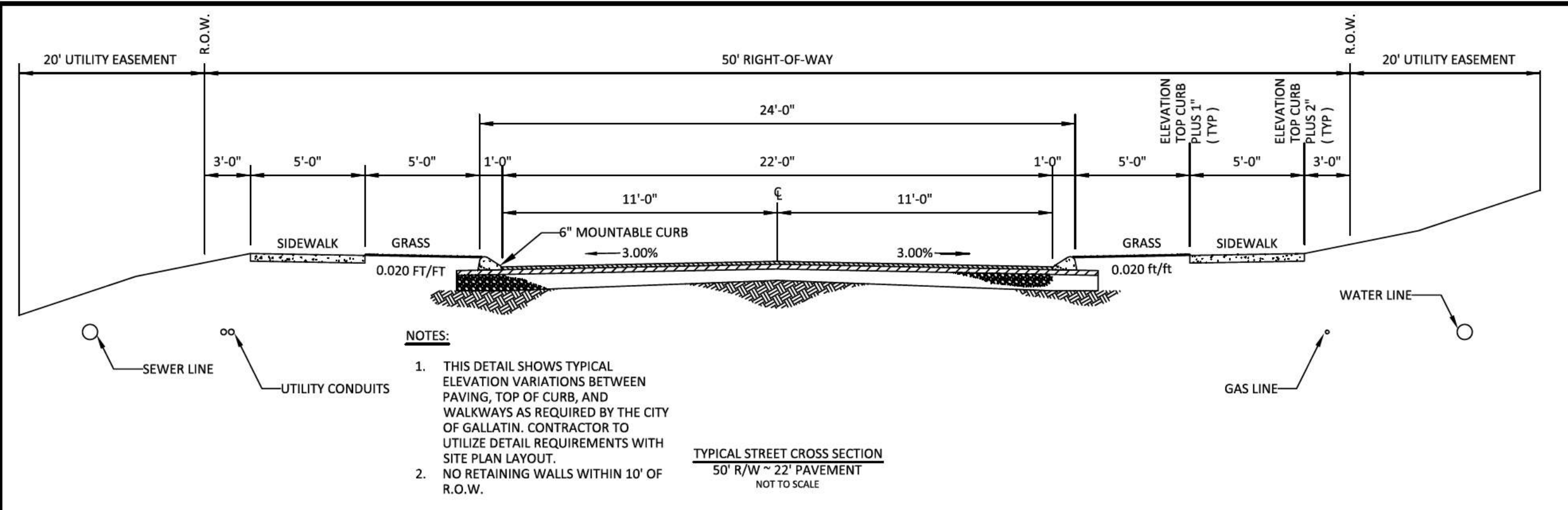


IF YOU DIG IN TENNESSEE
CALL 811 FIRST!
OR (800) 353-1111 OR (615) 366-1987
TENNESSEE ONE CALL IT'S THE LAW

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C5.6

SHEET 19 OF 47



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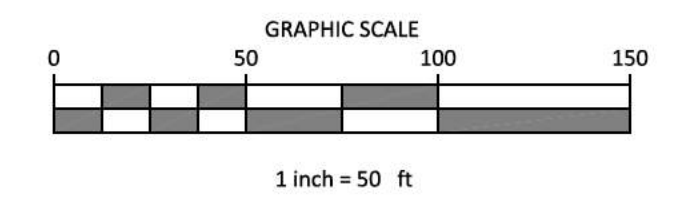
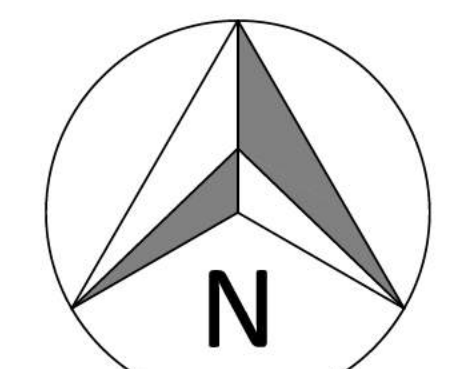
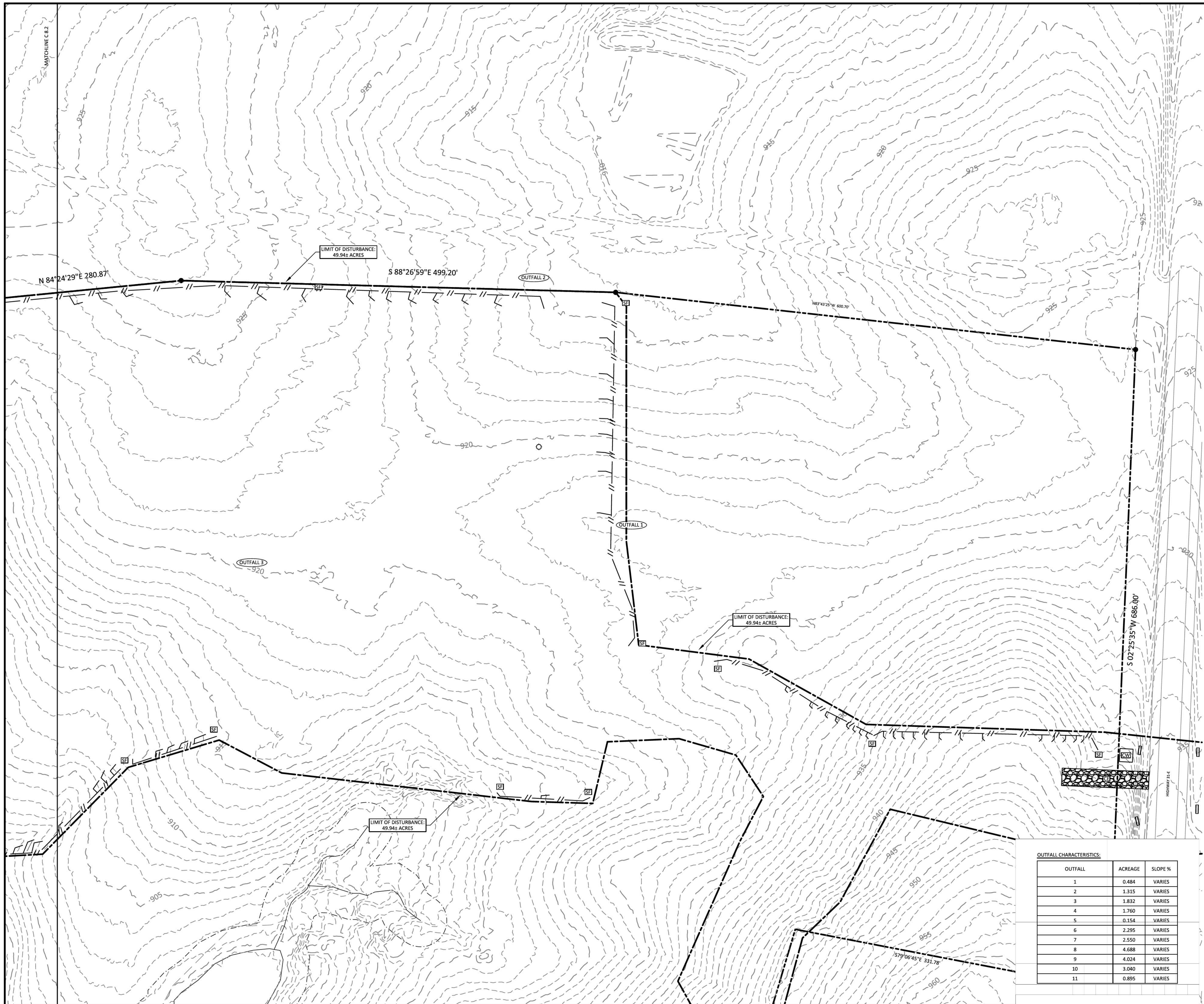
JOHN ANTHONY LEATH
REGISTERED ENGINEER
NO. 11160
STATE OF TENNESSEE
01-08-23

PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

PAVING & DRAINAGE DETAILS

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C 6.0
SHEET 20 OF 47
JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
 - - - - - SETBACK / YARD
 - - - - - PUDE
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
 - FM SANITARY FORCE MAIN
 - W WATER LINE
 - STORM SEWER
 - G GAS LINE
 - OHE OVERHEAD UTILITY LINE
 - UGT UNDERGROUND UTILITY LINE
 - - - - - FENCE
 - ~ ~ ~ ~ ~ TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - ⊕ GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD

EROSION CONTROL MEASURES SHOWN ON ALL PHASE 1 EROSION CONTROL PLANS IN THIS PLAN SET MUST BE INSTALLED AND STABILIZED PRIOR TO THE CITY OF WESTMORELAND ENGINEERING DIVISION RELEASING THE FULL LAND DISTURBANCE PERMIT (LDP) FOR THE SITE.

NAG DESIGNATIONS:
NAG A NAG S150 STAPLE "D"
 ALL DITCHES TO BE LINED WITH NAG S150 TEMPORARY MATTING IMMEDIATELY UPON FINAL GRADING UNLESS OTHERWISE NOTED.
 ALL 3:1 SLOPES TO BE STABILIZED WITH NAG S150 TEMPORARY MATTING.

- EROSION CONTROL LEGEND:**
- CD - CHECK DAM
 - IP - INLET PROTECTION
 - SF - SILT FENCE
 - SFB - SILT FENCE WITH BACKING
 - RC - ROCK CHECK
 - CE - CONSTRUCTION EXIT
 - FR - FILTER RING
 - NAG - NORTH AMERICAN GREEN OR EQUAL

TEMPORARY SEEDING NOTES
 1. SEED AND STRAW REQUIRED AS FOLLOWS;
 STRAW: 75 LBS PER 1,000 SQ. FT.
 10-10-10 FERTILIZER: 200 LBS PER ACRE
 SEED: 100 LBS PER ACRE
 AGR LIMC: 75 LBS PER 1,000 SQ. FT.

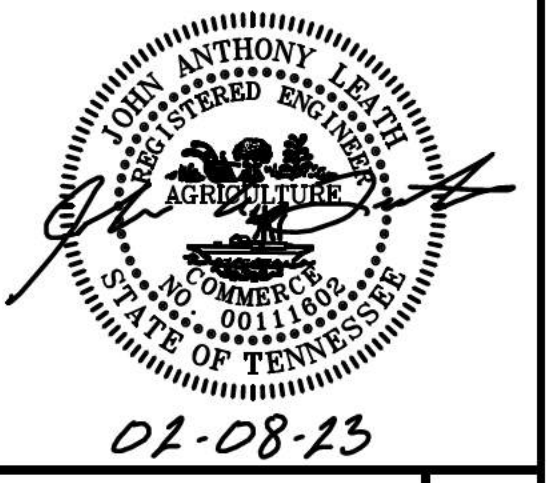
TEMPORARY COVER SEEDING MIXTURES

SEEDING DATE	GRASS SEED
JANUARY 1 TO MAY 1	ITALIAN RYE KOREAN LESPEDEZA SUMMER OATS
MAY 1 TO JULY 15	SUDAN - SORGHUM
MAY 1 TO JULY 15	STARBU MILLET BALCH RYE
JULY 15 TO JANUARY 1	ITALIAN RYE

OUTFALL CHARACTERISTICS:

OUTFALL	ACREAGE	SLOPE %
1	0.484	VARIES
2	1.315	VARIES
3	1.832	VARIES
4	1.760	VARIES
5	0.154	VARIES
6	2.295	VARIES
7	2.550	VARIES
8	4.688	VARIES
9	4.024	VARIES
10	3.040	VARIES
11	0.895	VARIES

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PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

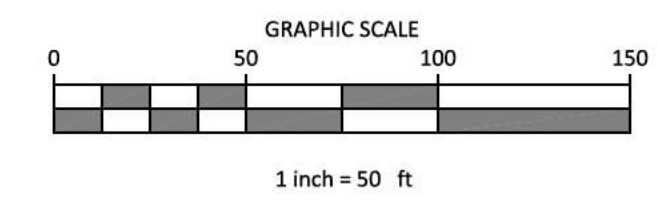
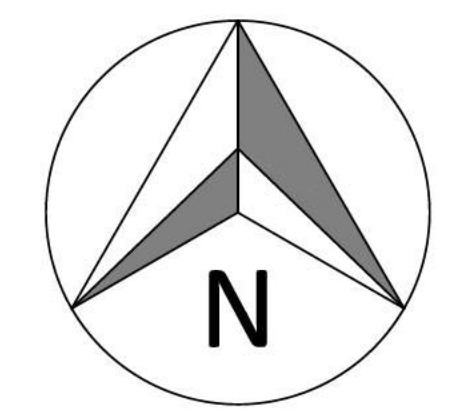
EROSION CONTROL A

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C7.1
SHEET 21 OF 47

JOB# 21.112G 23 MARCH 2022





- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - BUFFER
 - - - SETBACK / YARD
 - - - PUDE
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
 - FM SANITARY FORCE MAIN
 - W WATER LINE
 - STORM SEWER
 - G GAS LINE
 - OHE OVERHEAD UTILITY LINE
 - UGT UNDERGROUND UTILITY LINE
 - FENCE
 - TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - ⊕ GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD

EROSION CONTROL MEASURES SHOWN ON ALL PHASE 1 EROSION CONTROL PLANS IN THIS PLAN SET MUST BE INSTALLED AND STABILIZED PRIOR TO THE CITY OF WESTMORELAND ENGINEERING DIVISION RELEASING THE FULL LAND DISTURBANCE PERMIT (LDP) FOR THE SITE.

NAG DESIGNATIONS:
NAG A NAG S150 STAPLE "D"
 ALL DITCHES TO BE LINED WITH NAG S150 TEMPORARY MATTING IMMEDIATELY UPON FINAL GRADING UNLESS OTHERWISE NOTED.
 ALL 3:1 SLOPES TO BE STABILIZED WITH NAG S150 TEMPORARY MATTING.

- EROSION CONTROL LEGEND:**
- CD - CHECK DAM
 - IP - INLET PROTECTION
 - SF - SILT FENCE
 - SFB - SILT FENCE WITH BACKING
 - RC - ROCK CHECK
 - CE - CONSTRUCTION EXIT
 - FR - FILTER RING
 - NAG - NORTH AMERICAN GREEN OR EQUAL

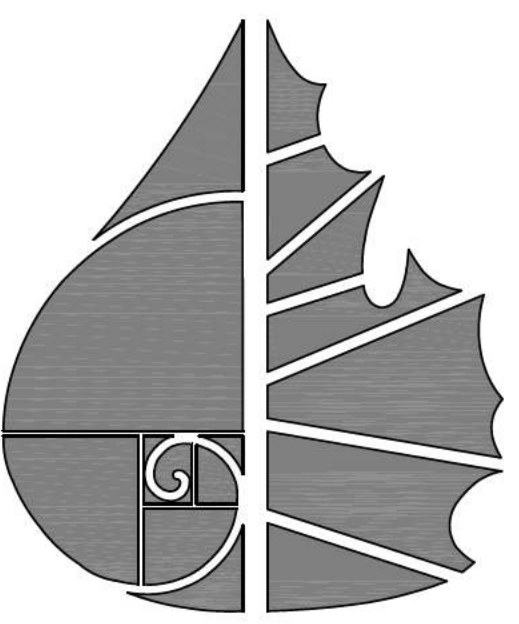
TEMPORARY SEEDING NOTES
 1. SEED AND STRAW REQUIRED AS FOLLOWS;
 STRAW: 75 LBS PER 1,000 SQ. FT.
 10-10-10 FERTILIZER: 200 LBS PER ACRE
 SEED: 100 LBS PER ACRE
 AGR LIME: 75 LBS PER 1,000 SQ. FT.

TEMPORARY COVER SEEDING MIXTURES

SEEDING DATE	GRASS SEED
JANUARY 1 TO MAY 1	ITALIAN RYE KOREAN LESPEDEZA SUMMER OATS
MAY 1 TO JULY 15	SUDAN - SORGHUM
MAY 1 TO JULY 15	STARBU MILET SALICORN RYE
JULY 15 TO JANUARY 1	ITALIAN RYE

OUTFALL CHARACTERISTICS:

OUTFALL	ACREAGE	SLOPE %
1	0.484	VARIES
2	1.315	VARIES
3	1.832	VARIES
4	1.760	VARIES
5	0.154	VARIES
6	2.295	VARIES
7	2.550	VARIES
8	4.688	VARIES
9	4.024	VARIES
10	3.040	VARIES
11	0.895	VARIES



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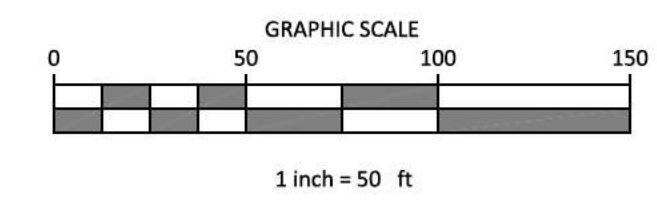
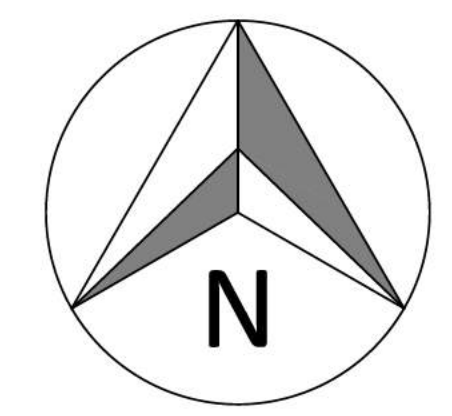
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

EROSION CONTROL A

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C7.2
 SHEET 22 OF 47
 JOB# 21.112G 23 MARCH 2022





- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - BUFFER
 - - - SETBACK / YARD
 - - - PUDE
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
 - FM SANITARY FORCE MAIN
 - W WATER LINE
 - - - STORM SEWER
 - - - G GAS LINE
 - OHE OVERHEAD UTILITY LINE
 - - - UGT UNDERGROUND UTILITY LINE
 - - - FENCE
 - TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD

EROSION CONTROL MEASURES SHOWN ON ALL PHASE 1 EROSION CONTROL PLANS IN THIS PLAN SET MUST BE INSTALLED AND STABILIZED PRIOR TO THE CITY OF WESTMORELAND ENGINEERING DIVISION RELEASING THE FULL LAND DISTURBANCE PERMIT (LDP) FOR THE SITE.

NAG DESIGNATIONS:
NAG A NAG S150 STAPLE "D"
 ALL DITCHES TO BE LINED WITH NAG S150 TEMPORARY MATTING IMMEDIATELY UPON FINAL GRADING UNLESS OTHERWISE NOTED.
 ALL 3:1 SLOPES TO BE STABILIZED WITH NAG S150 TEMPORARY MATTING.

- EROSION CONTROL LEGEND:**
- CD - CHECK DAM
 - IP - INLET PROTECTION
 - SF - SILT FENCE
 - SFB - SILT FENCE WITH BACKING
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 - CE - CONSTRUCTION EXIT
 - FR - FILTER RING
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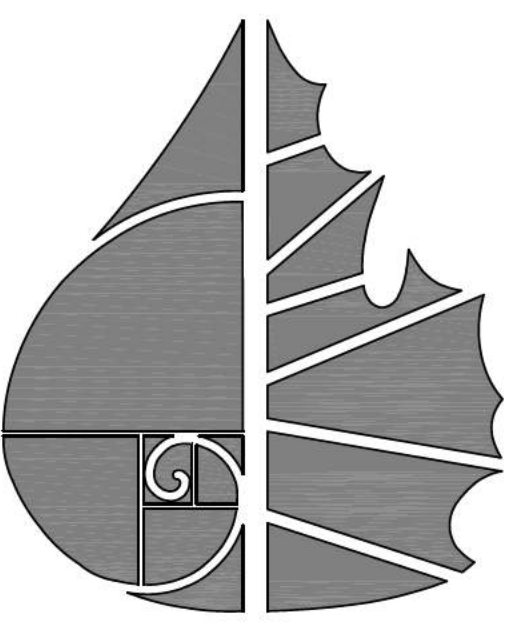
TEMPORARY SEEDING NOTES
 1. SEED AND STRAW REQUIRED AS FOLLOWS;
 STRAW: 75 LBS PER 1,000 SQ. FT.
 10-10-10 FERTILIZER: 200 LBS PER ACRE
 SEED: 100 LBS PER ACRE
 AGR LIME: 75 LBS PER 1,000 SQ. FT.

TEMPORARY COVER SEEDING MIXTURES

SEEDING DATE	GRASS SEED
JANUARY 1 TO MAY 1	ITALIAN RYE KOREAN LESPEDEZA SUMMER OATS
MAY 1 TO JULY 15	SUDAN - SORGHUM STARBU MILLET
MAY 1 TO JULY 15	SALICORN RYE
JULY 15 TO JANUARY 1	ITALIAN RYE

OUTFALL CHARACTERISTICS:

OUTFALL	ACREAGE	SLOPE %
1	0.484	VARIES
2	1.315	VARIES
3	1.832	VARIES
4	1.760	VARIES
5	0.154	VARIES
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7	2.550	VARIES
8	4.688	VARIES
9	4.024	VARIES
10	3.040	VARIES
11	0.895	VARIES



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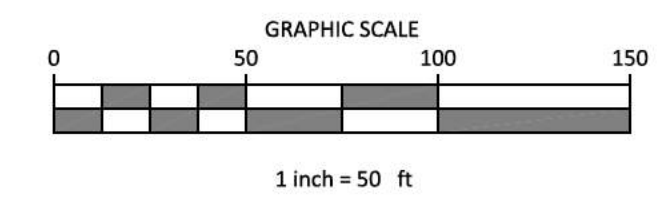
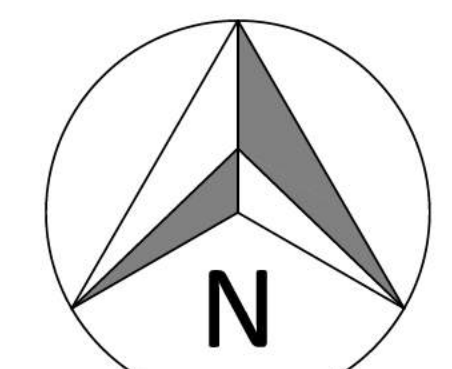
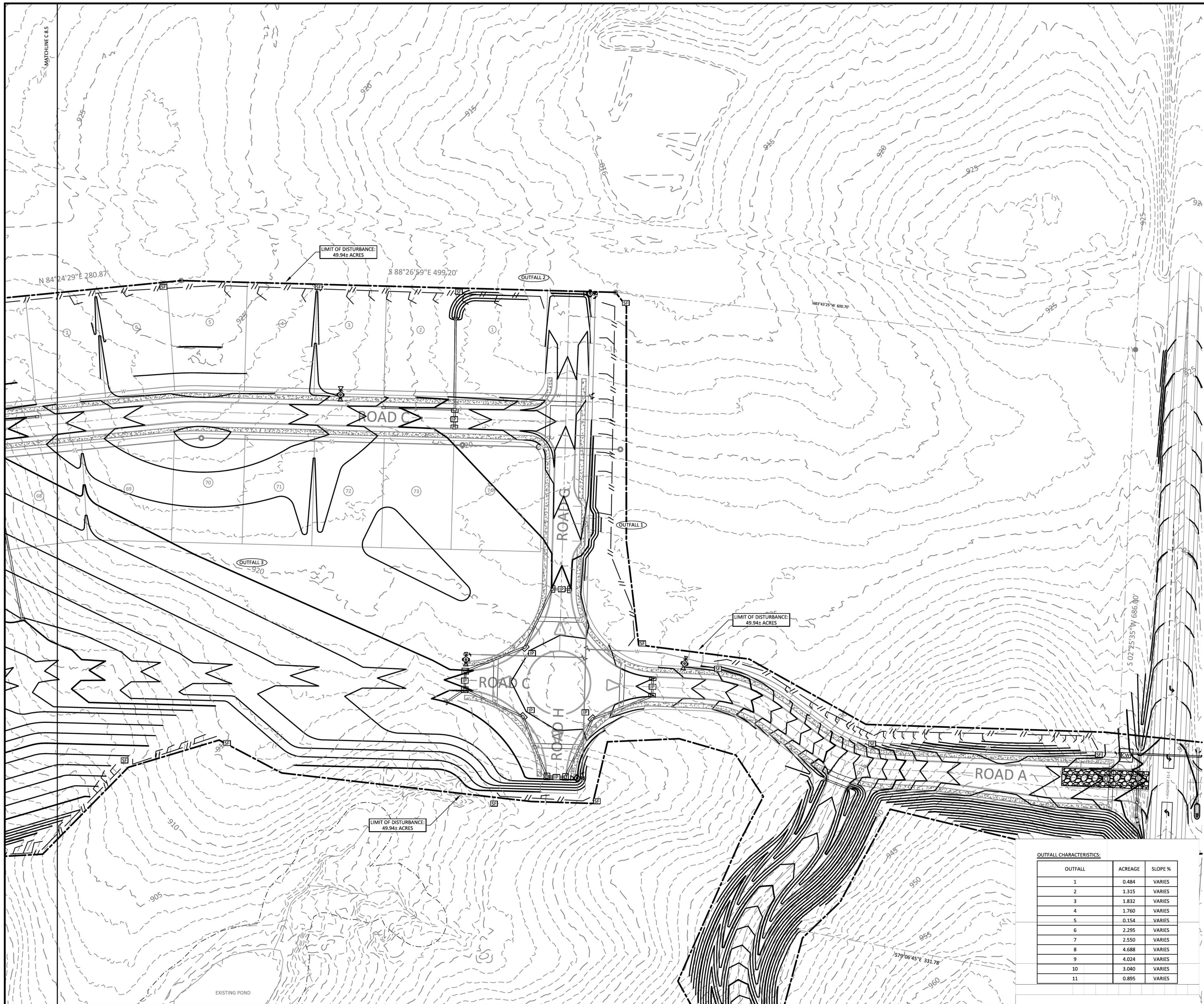
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

EROSION CONTROL A

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C7.3
 SHEET 23 OF 47
 JOB# 21.112G 23 MARCH 2022





- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
 - - - - - SETBACK / YARD
 - - - - - PUDE
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
 - FM SANITARY FORCE MAIN
 - W WATER LINE
 - - - - - STORM SEWER
 - - - - - GAS LINE
 - OHE OVERHEAD UTILITY LINE
 - UGT UNDERGROUND UTILITY LINE
 - - - - - FENCE
 - ~ ~ ~ ~ ~ TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD

EROSION CONTROL MEASURES SHOWN ON ALL PHASE 1 EROSION CONTROL PLANS IN THIS PLAN SET MUST BE INSTALLED AND STABILIZED PRIOR TO THE CITY OF WESTMORELAND ENGINEERING DIVISION RELEASING THE FULL LAND DISTURBANCE PERMIT (LDP) FOR THE SITE.

NAG DESIGNATIONS:
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 ALL DITCHES TO BE LINED WITH NAG S150 TEMPORARY MATTING IMMEDIATELY UPON FINAL GRADING UNLESS OTHERWISE NOTED.
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- EROSION CONTROL LEGEND:**
- [CD] CHECK DAM
 - [IP] INLET PROTECTION
 - [SF] SILT FENCE
 - [SFB] SILT FENCE WITH BACKING
 - [RC] ROCK CHECK
 - [CE] CONSTRUCTION EXIT
 - [FR] FILTER RING
 - [NAG] NORTH AMERICAN GREEN OR EQUAL

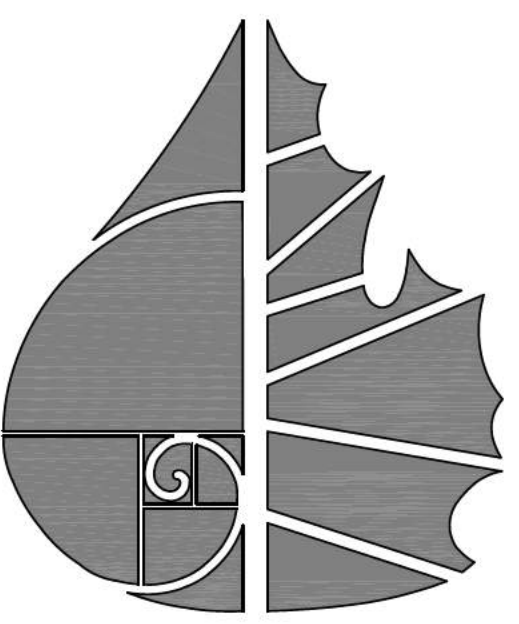
TEMPORARY SEEDING NOTES
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 SEED: 100 LBS PER ACRE
 AGR LIME: 75 LBS PER 1,000 SQ. FT.

TEMPORARY COVER SEEDING MIXTURES

SEEDING DATE	GRASS SEED
JANUARY 1 TO MAY 1	ITALIAN RYE KOREAN LESPEDEZA SUMMER OATS
MAY 1 TO JULY 15	SUDAN - SORGHUM STARBU MILLET
MAY 1 TO JULY 15	SALICORN RYE ITALIAN RYE
JULY 15 TO JANUARY 1	ITALIAN RYE

OUTFALL CHARACTERISTICS:

OUTFALL	ACREAGE	SLOPE %
1	0.484	VARIES
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3	1.832	VARIES
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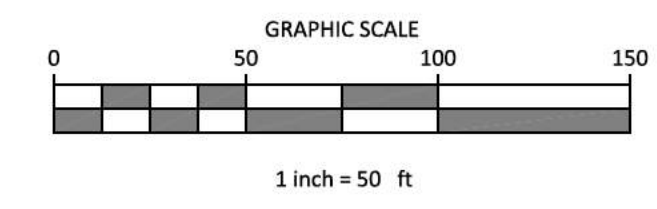
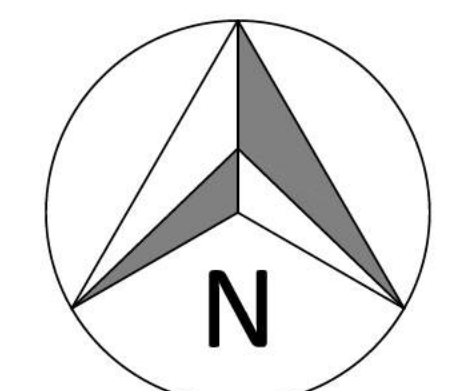
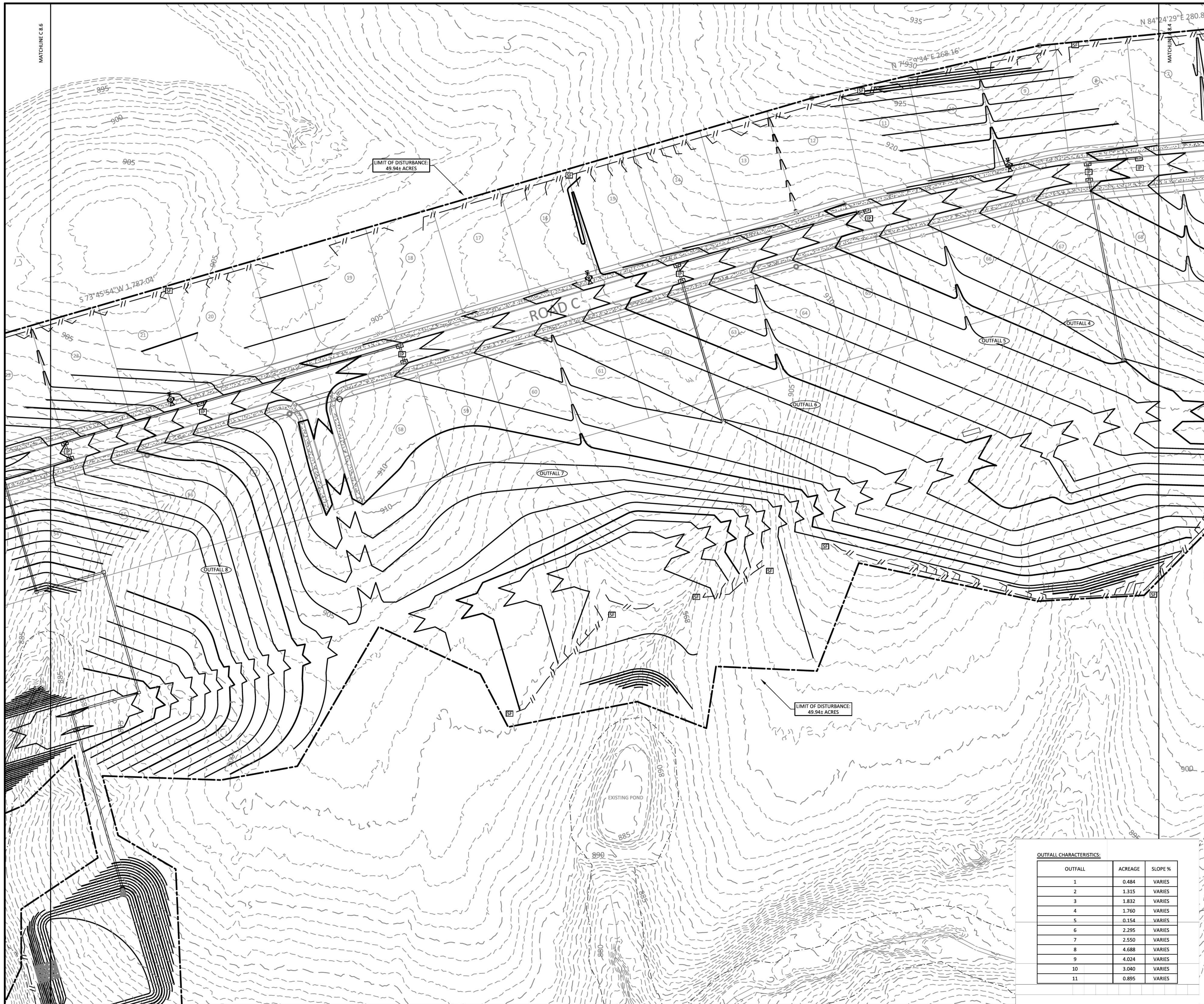
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

EROSION CONTROL B

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C7.4
 SHEET 24 OF 47
 JOB# 21.112G 23 MARCH 2022





- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
 - - - - - SETBACK / YARD
 - - - - - PUDE
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 - STORM SEWER
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 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
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 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD

EROSION CONTROL MEASURES SHOWN ON ALL PHASE 1 EROSION CONTROL PLANS IN THIS PLAN SET MUST BE INSTALLED AND STABILIZED PRIOR TO THE CITY OF WESTMORELAND ENGINEERING DIVISION RELEASING THE FULL LAND DISTURBANCE PERMIT (LDP) FOR THE SITE.

NAG DESIGNATIONS:
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- EROSION CONTROL LEGEND:**
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 - IP - INLET PROTECTION
 - SF - SILT FENCE
 - SFB - SILT FENCE WITH BACKING
 - RC - ROCK CHECK
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 SEED: 100 LBS PER ACRE
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TEMPORARY COVER SEEDING MIXTURES

SEEDING DATE	GRASS SEED
JANUARY 1 TO MAY 1	ITALIAN RYE KOREAN LESPEDEZA SUMMER OATS
MAY 1 TO JULY 15	SUDAN - SORGHUM
MAY 1 TO JULY 15	STARBU MILET
JULY 15 TO JANUARY 1	BALCK RYE ITALIAN RYE

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OUTFALL	ACREAGE	SLOPE %
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7	2.550	VARIES
8	4.688	VARIES
9	4.024	VARIES
10	3.040	VARIES
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PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

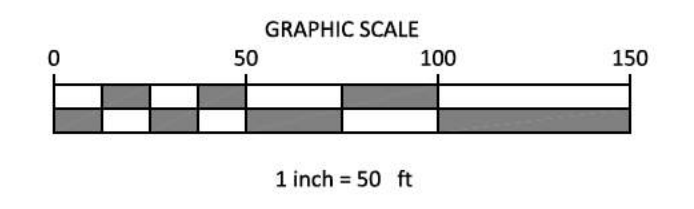
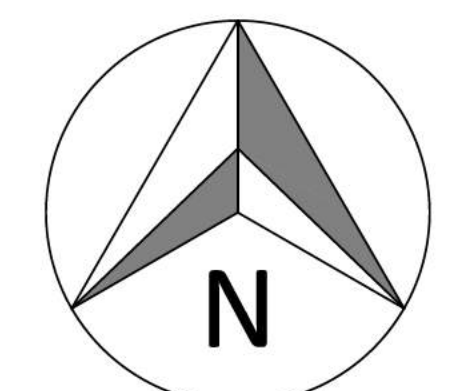
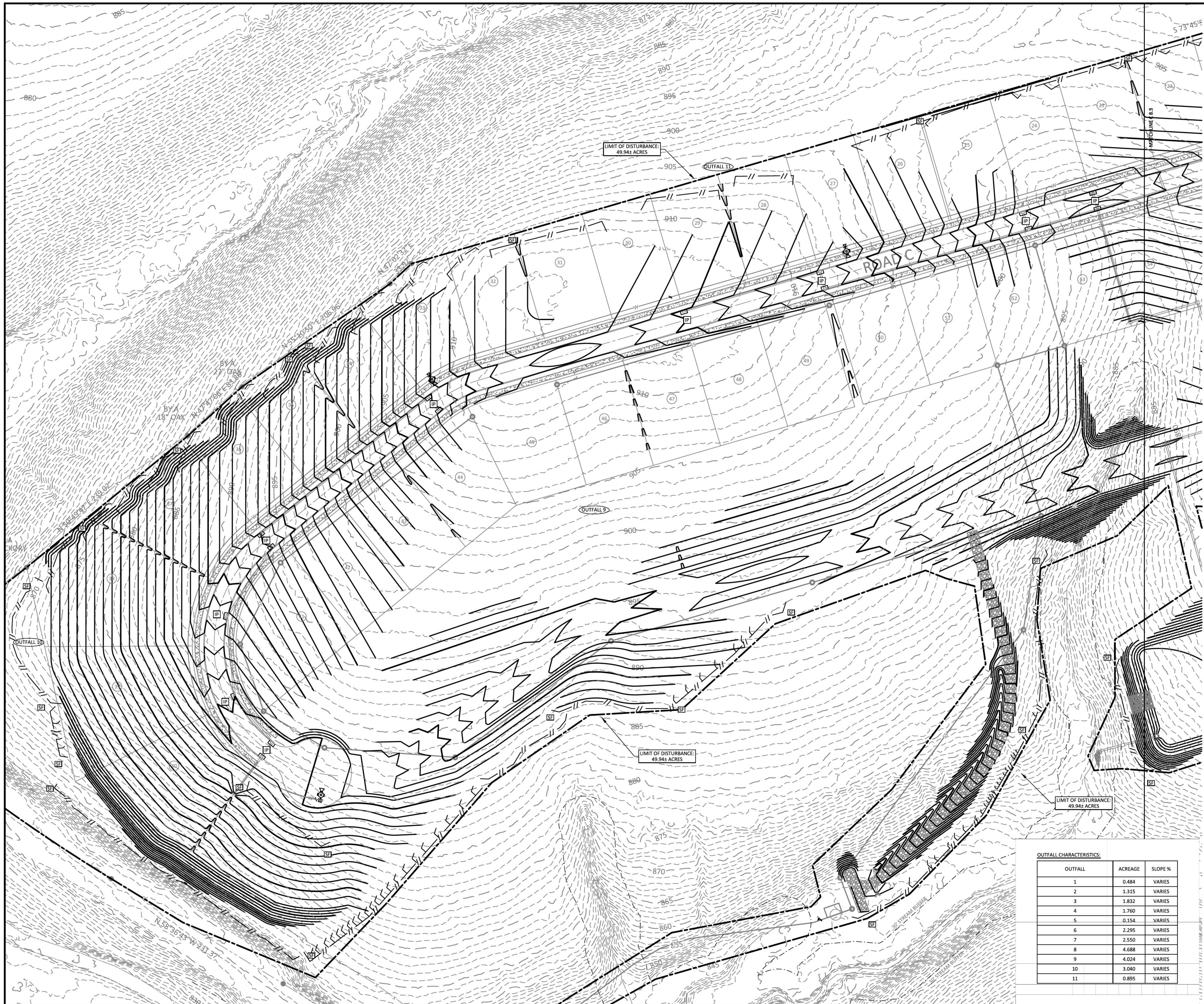
EROSION CONTROL B

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C 7.5

SHEET 25 OF 47

JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
 - - - - - SETBACK / YARD
 - - - - - PUDE
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
 - FM SANITARY FORCE MAIN
 - W WATER LINE
 - STORM SEWER
 - G GAS LINE
 - OHE OVERHEAD UTILITY LINE
 - UGT UNDERGROUND UTILITY LINE
 - FENCE
 - TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD

EROSION CONTROL MEASURES SHOWN ON ALL PHASE 1 EROSION CONTROL PLANS IN THIS PLAN SET MUST BE INSTALLED AND STABILIZED PRIOR TO THE CITY OF WESTMORELAND ENGINEERING DIVISION RELEASING THE FULL LAND DISTURBANCE PERMIT (LDP) FOR THE SITE.

NAG DESIGNATIONS:
NAG A NAG S150 STAPLE "D"
 ALL DITCHES TO BE LINED WITH NAG S150 TEMPORARY MATTING IMMEDIATELY UPON FINAL GRADING UNLESS OTHERWISE NOTED.
 ALL 3:1 SLOPES TO BE STABILIZED WITH NAG S150 TEMPORARY MATTING.

- EROSION CONTROL LEGEND:**
- CD - CHECK DAM
 - IP - INLET PROTECTION
 - SF - SILT FENCE
 - SFB - SILT FENCE WITH BACKING
 - RC - ROCK CHECK
 - CE - CONSTRUCTION EXIT
 - FR - FILTER RING
 - NAG - NORTH AMERICAN GREEN OR EQUAL

TEMPORARY SEEDING NOTES
 1. SEED AND STRAW REQUIRED AS FOLLOWS;
 STRAW: 75 LBS PER 1,000 SQ. FT.
 10-10-10 FERTILIZER: 200 LBS PER ACRE
 SEED: 100 LBS PER ACRE
 AGR LIME: 75 LBS PER 1,000 SQ. FT.

TEMPORARY COVER SEEDING MIXTURES

SEEDING DATE	GRASS SEED
JANUARY 1 TO MAY 1	ITALIAN RYE KOREAN LESPEDEZA SUMMER OATS
MAY 1 TO JULY 15	SUDAN - SORGHUM
MAY 1 TO JULY 15	STARBU MILET SALICORN RYE
JULY 15 TO JANUARY 1	ITALIAN RYE

OUTFALL CHARACTERISTICS:

OUTFALL	ACREAGE	SLOPE %
1	0.484	VARIES
2	1.315	VARIES
3	1.832	VARIES
4	1.760	VARIES
5	0.154	VARIES
6	2.295	VARIES
7	2.550	VARIES
8	4.688	VARIES
9	4.024	VARIES
10	3.040	VARIES
11	0.895	VARIES

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 andy.leath@greendesign.com



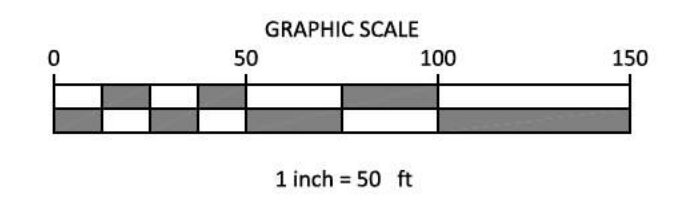
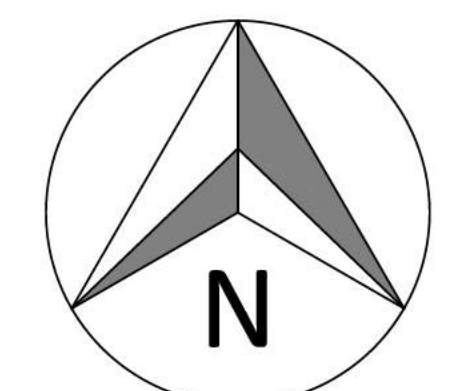
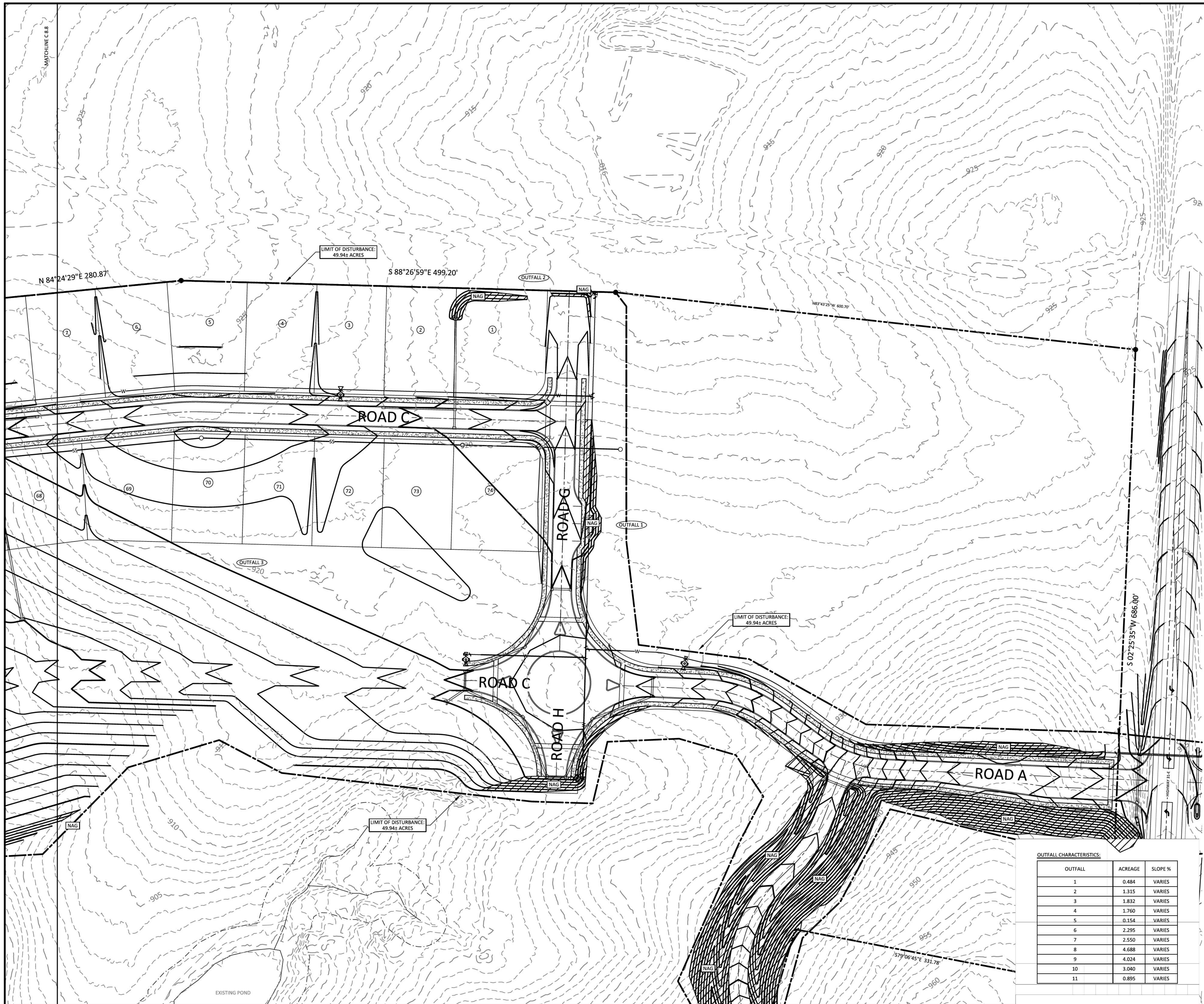
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

EROSION CONTROL B

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-25-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C7.6
 SHEET 26 OF 47
 JOB# 21.112G 23 MARCH 2022





- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
 - - - - - SETBACK / YARD
 - - - - - PUDE
 - SS — SANITARY SEWER LINE
 - FM — SANITARY FORCE MAIN
 - W — WATER LINE
 - - - - - STORM SEWER
 - - - - - GAS LINE
 - OHE — OVERHEAD UTILITY LINE
 - - - - - UGT — UNDERGROUND UTILITY LINE
 - - - - - FENCE
 - ~ ~ ~ ~ ~ TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD

EROSION CONTROL MEASURES SHOWN ON ALL PHASE 1 EROSION CONTROL PLANS IN THIS PLAN SET MUST BE INSTALLED AND STABILIZED PRIOR TO THE CITY OF WESTMORELAND ENGINEERING DIVISION RELEASING THE FULL LAND DISTURBANCE PERMIT (LDP) FOR THE SITE.

NAG DESIGNATIONS:
[NAG A] NAG S150 STAPLE "D"
 ALL DITCHES TO BE LINED WITH NAG S150 TEMPORARY MATTING IMMEDIATELY UPON FINAL GRADING UNLESS OTHERWISE NOTED.
 ALL 3:1 SLOPES TO BE STABILIZED WITH NAG S150 TEMPORARY MATTING.
 TOTAL NAG SF ON THIS PAGE: 40,828 SF

- EROSION CONTROL LEGEND:**
- [CD] CHECK DAM
 - [IP] INLET PROTECTION
 - [SF] SILT FENCE
 - [SFB] SILT FENCE WITH BACKING
 - [RC] ROCK CHECK
 - [CE] CONSTRUCTION EXIT
 - [FR] FILTER RING
 - [NAG] NORTH AMERICAN GREEN OR EQUAL

TEMPORARY SEEDING NOTES
 1. SEED AND STRAW REQUIRED AS FOLLOWS;
 STRAW: 75 LBS PER 1,000 SQ. FT.
 10-10-10 FERTILIZER: 200 LBS PER ACRE
 SEED: 100 LBS PER ACRE
 AGR LIMC: 75 LBS PER 1,000 SQ. FT.

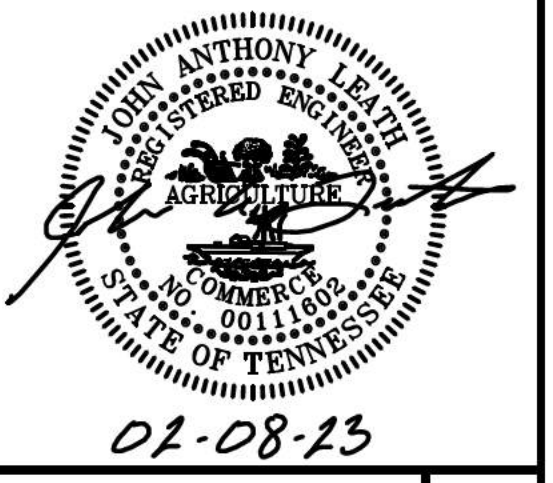
TEMPORARY COVER SEEDING MIXTURES

SEEDING DATE	GRASS SEED
JANUARY 1 TO MAY 1	ITALIAN RYE KOREAN LESPEDEZA SUMMER OATS
MAY 1 TO JULY 15	SUDAN - SORGHUM
MAY 1 TO JULY 15	STARBU MILLET
JULY 15 TO JANUARY 1	SALICORN RYE ITALIAN RYE

OUTFALL CHARACTERISTICS:

OUTFALL	ACREAGE	SLOPE %
1	0.484	VARIES
2	1.315	VARIES
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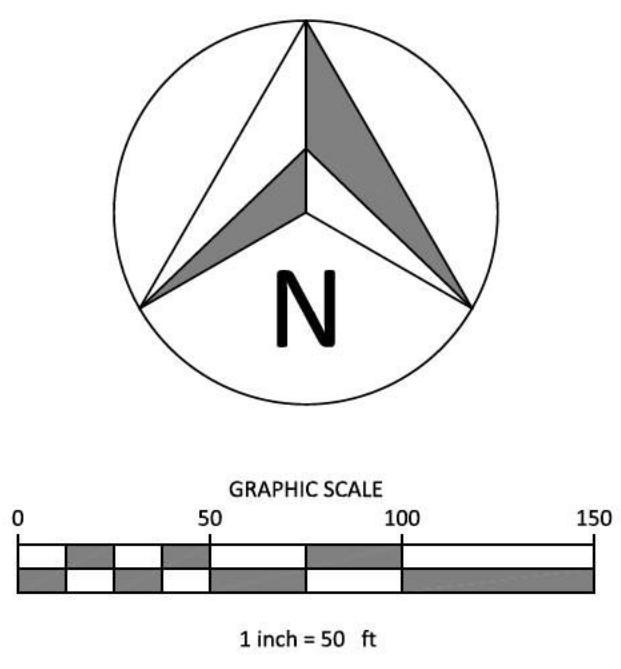
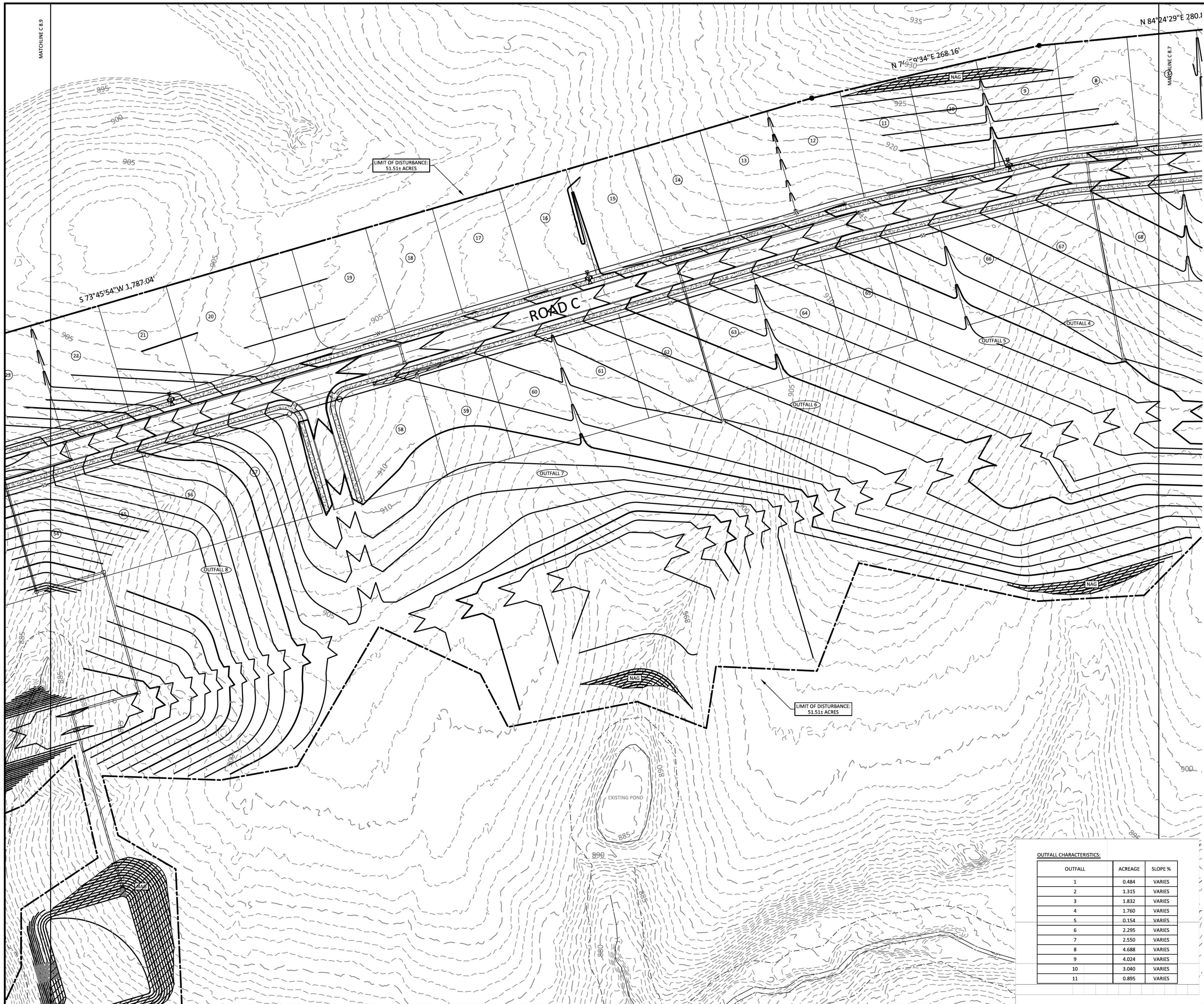
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

EROSION CONTROL C

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C7.7
 SHEET 27 OF 47
 JOB# 21.112G 23 MARCH 2022





- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - BUFFER
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EROSION CONTROL MEASURES SHOWN ON ALL PHASE 1 EROSION CONTROL PLANS IN THIS PLAN SET MUST BE INSTALLED AND STABILIZED PRIOR TO THE CITY OF WESTMORELAND ENGINEERING DIVISION RELEASING THE FULL LAND DISTURBANCE PERMIT (LDP) FOR THE SITE.

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 TOTAL NAG SF ON THIS PAGE: 15,709 SF

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PLEASANT GROVE FARMS, PHASE 1
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 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

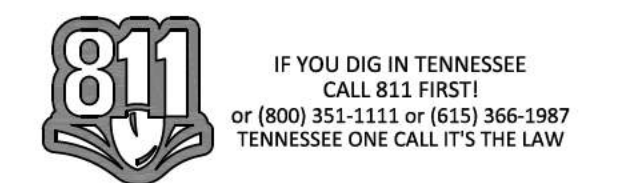
EROSION CONTROL C

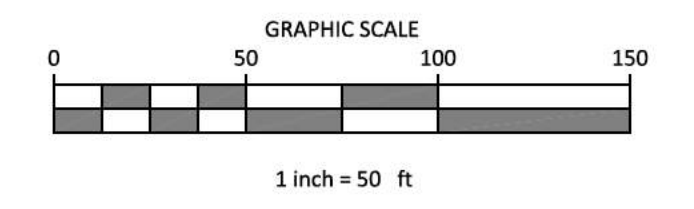
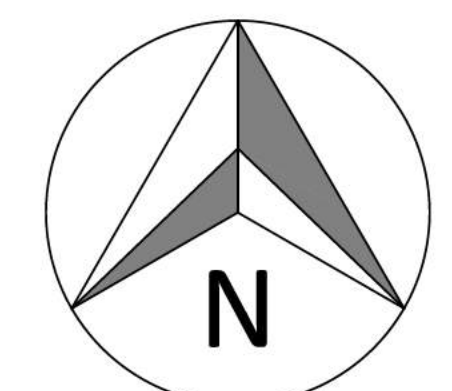
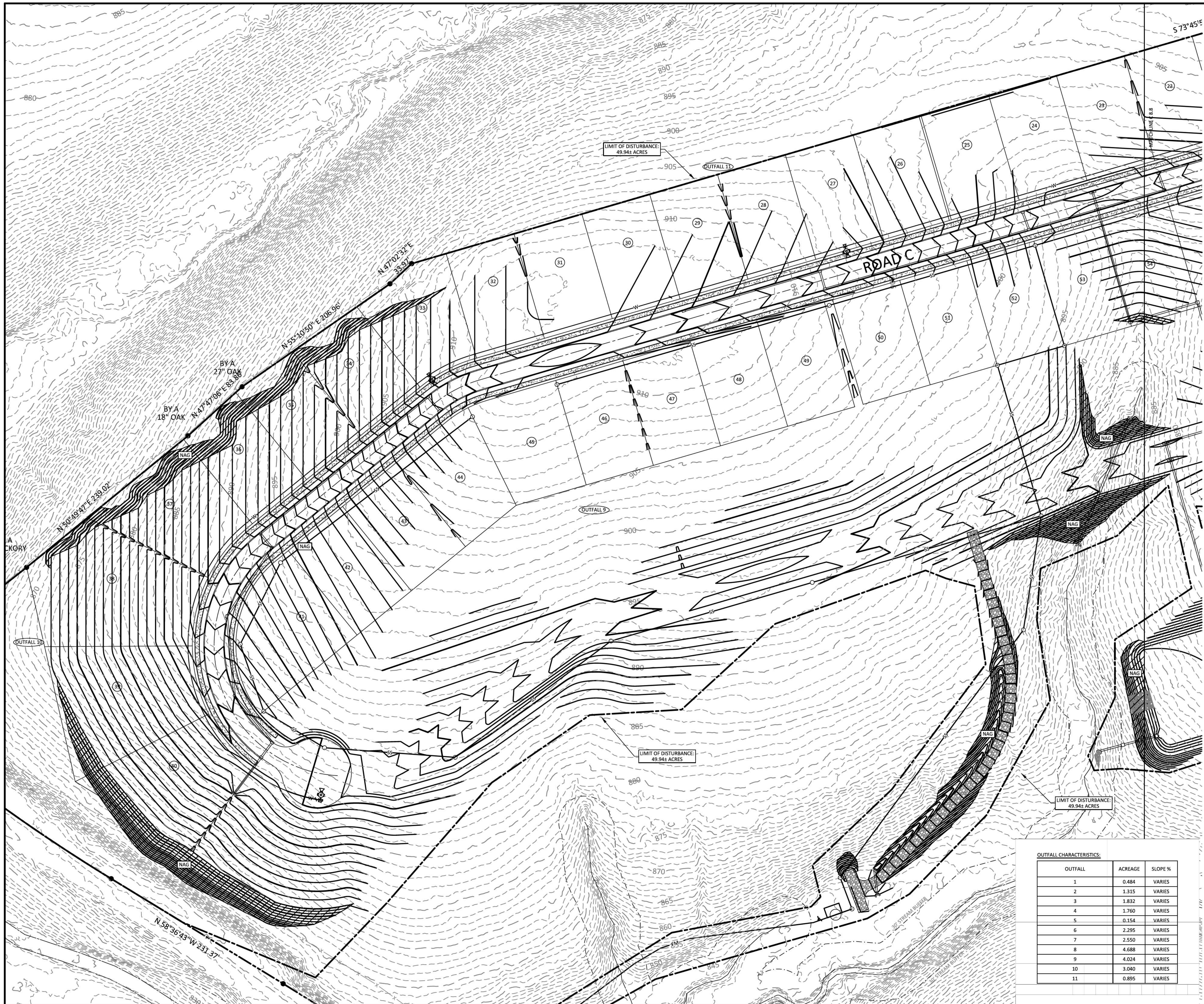
NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C 7.8

SHEET 28 OF 47

JOB# 21.112G 23 MARCH 2022





- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - - - - - BUFFER
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 ALL 3:1 SLOPES TO BE STABILIZED WITH NAG S150 TEMPORARY MATTING.
 TOTAL NAG SF ON THIS PAGE: 35,426 SF

- EROSION CONTROL LEGEND:**
- [CD] CHECK DAM
 - [IP] INLET PROTECTION
 - [SF] SILT FENCE
 - [SFB] SILT FENCE WITH BACKING
 - [RC] ROCK CHECK
 - [CE] CONSTRUCTION EXIT
 - [FR] FILTER RING
 - [NAG] NORTH AMERICAN GREEN OR EQUAL

TEMPORARY SEEDING NOTES
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 SEED: 100 LBS PER ACRE
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TEMPORARY COVER SEEDING MIXTURES

SEEDING DATE	GRASS SEED
JANUARY 1 TO MAY 1	ITALIAN RYE KOREAN LESPEDEZA SUMMER OATS
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OUTFALL CHARACTERISTICS:

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PLEASANT GROVE FARMS, PHASE 1
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 SUMNER COUNTY, TENNESSEE

EROSION CONTROL C

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
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4	10-25-2022		
5	02-07-2023		

SHEET NO. C7.9
 SHEET 29 OF 47

JOB# 21.112G 23 MARCH 2022



EROSION AND SEDIMENT CONTROL NOTES:

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

THIS PROJECT WILL DISTURB MORE THAN 1 ACRE. A SWPPP IS REQUIRED FOR THIS PROJECT.

EXISTING SITE CONDITIONS

THE EXISTING LOT IS CURRENTLY UNDEVELOPED. STORM WATER RUNOFF FROM THIS SITE DRAINS SOUTHWEST TO LITTLE TRAMMEL CREEK.

PROPOSED SITE CONDITIONS (NPDES PERMIT SECTION 3.5.1.a)

THIS PROJECT PROPOSES THE DEVELOPMENT OF 74 SINGLE FAMILY DETACHED RESIDENTIAL LOTS ON APPROXIMATELY 142.21 ACRES WITH ALL REQUIRED APPURTENANCES.

303(d) SPECIAL REQUIREMENTS

THE RECEIVING WATERS ARE NOT ON THE 303d LISTING AS A SILT IMPAIRED STREAM AND HABITAT IMPAIRED STREAM.

DEVELOPMENT CONDITIONS

POST-DEVELOPED DRAINAGE WILL CONTINUE TO FOLLOW THE PRE-DEVELOPED DRAINAGE PATHS. SEDIMENT CONTROL WILL BE BY BEST MANAGEMENT PRACTICES SHOWN ON THE EROSION AND SEDIMENT CONTROL PLANS.

IF THE CONTROLS ARE INSTALLED AND MAINTAINED CORRECTLY BUT ARE FOUND TO PROVIDE AN INADEQUATE LEVEL OF PROTECTION, GREENLID DESIGN, LLC WILL MAKE REVISIONS TO THIS PLAN AND THESE REVISIONS WILL BE IMPLEMENTED BY THE CONTRACTOR.

SWPPP NOTES

1. ALL BEST MANAGEMENT PRACTICES ARE TO BE ADHERED TO THROUGHOUT THE LIFE OF THE PROJECT.
2. QUALITY ASSURANCE OF EPSC MEASURES SHALL BE CONDUCTED BY QUALIFIED PERSONNEL WITHIN A MONTH OF CONSTRUCTION COMMENCING PER NPDES PERMIT SECTION 3.1.2.
3. A COPY OF THE SWPPP IS TO BE MAINTAINED ON THE SITE AT ALL TIMES ALONG WITH RECORDS OF EROSION CONTROL INSPECTIONS PER NPDES PERMIT SECTION 3.3.3.
4. CONSTRUCTION ACTIVITIES (NPDES PERMIT SECTION 3.5.1.a) CONSTRUCTION ACTIVITIES ON THIS SITE INCLUDE: MASS GRADING, EXCAVATION OF SEDIMENT TRAPS AND ROADWAYS, INSTALLATION OF STORM STRUCTURES, PIPES, AND UTILITIES, CONSTRUCTION OF ROADWAYS INCLUDING BASE STONE AND PAVING, AND INSTALLATIONS OF UTILITY SERVICES.
5. DISTURBED AREA (NPDES PERMIT SECTION 3.5.1.c) SITE AREA = 142.21 ± AC DISTURBED AREA = 49.94 ± AC
6. EXISTING SITE SOILS (NPDES PERMIT SECTION 3.5.1.f)

DKB2 - DICKSON SILT LOAM, 2 TO 5% SLOPES, ERODED HYDROLOGIC GROUP C
THIS SOIL IS VERY DEEP, MODERATELY WELL DRAINED, AND HAS A FRAGIPAN IN THE SUBSOIL. IT IS ON GENTLY SLOPING HILLSLOPS IN THE UPLANDS. THE SURFACE LAYER IS BROWN SILT LOAM ABOUT 11 INCHES THICK. THE UPPER PART OF THE SUBSOIL TO A DEPTH OF 20 INCHES IS LIGHT OLIVE BROWN SILT LOAM. THE FRAGIPAN EXTENDS FROM A DEPTH OF 20 TO 47 INCHES. IT IS YELLOWISH BROWN SILT LOAM THAT HAS REDDISH, BROWNISH, AND GRAYISH MOTTLES. BELOW THIS TO A DEPTH OF ABOUT 60 INCHES, THE SUBSOIL IS RED GRAVELLY SILTY CLAY LOAM THAT HAS BROWNISH AND GRAYISH MOTTLES. PERMEABILITY IS MODERATE ABOVE THE FRAGIPAN, SLOW IN THE FRAGIPAN, AND MODERATELY SLOW BELOW THE FRAGIPAN. THE AVAILABLE WATER CAPACITY IS MODERATE. THE ROOT ZONE IS VERY DEEP BUT IS SOMEWHAT RESTRICTED BY THE FRAGIPAN. INCLUDED WITH THIS SOIL MAPPINGS ARE A FEW SMALL AREAS OF WELL DRAINED SOILS THAT DO NOT HAVE A FRAGIPAN. THESE ARE TYPICALLY FOUND NARROW BANDS AROUND THE OUTER EDGES OF MAPPED AREAS OR ON SHOROT SLOPES IN THE INTERIOR. ALSO INCLUDED ARE A FEW SMALL AREAS OF SOMEWHAT POORLY DRAINED SOILS IN DEPRESSIONS.

SGC2-SUGARGROVE GRAVELLY SILT LOAM, 12 TO 20 PERCENT SLOPES, ERODED HYDROLOGIC GROUP A
THIS SOIL IS DEEP AND WELL DRAINED. IT IS COMMONLY FOUND ON NARROW, WINDING SHOULDERS BELOW THE NEARLY LEVEL HILLSLOPS OF HILLY UPLANDS. THE SURFACE LAYER IS BROWN GRAVELLY SILT LOAM ABOUT 7 INCHES THICK. THE UPPER PART OF THE SUBSOIL TO A DEPTH OF ABOUT 13 INCHES IS YELLOWISH BROWN GRAVELLY SILT LOAM. THE NEXT PART TO A DEPTH OF ABOUT 17 INCHES IS YELLOWISH BROWN GRAVELLY SILTY CLAY LOAM. THE NEXT PART TO A DEPTH OF ABOUT 32 INCHES IS YELLOWISH BROWN GRAVELLY SILTY CLAY LOAM THAT HAS BROWNISH MOTTLES. BELOW THIS TO A DEPTH OF ABOUT 41 INCHES IS YELLOWISH BROWN VERY GRAVELLY SILTY CLAY THAT HAS MOTTLES. THE SUBSTRATUM TO A DEPTH OF ABOUT 49 INCHES IS FRACTURED AND WEATHERED BEDROCK. HARD BEDROCK IS AT A DEPTH OF ABOUT 49 INCHES. PERMEABILITY IS MODERATE OR MODERATELY RAPID, AND THE AVAILABLE WATER CAPACITY IS LOW. THE ROOT ZONE IS MODERATELY DEEP AND IS EASILY PENETRATED BY PLANT ROOTS. WATER MOVES ALONG THE SURFACE OF THE BEDROCK DURING WET SEASONS.

SGD2-SUGARGROVE GRAVELLY SILT LOAM, 12 TO 20 PERCENT SLOPES, ERODED HYDROLOGIC GROUP A
THIS SOIL IS DEEP AND WELL DRAINED. IT IS COMMONLY FOUND ON NARROW, WINDING SHOULDERS BELOW THE NEARLY LEVEL HILLSLOPS OF HILLY UPLANDS. THE SURFACE LAYER IS BROWN GRAVELLY SILT LOAM ABOUT 7 INCHES THICK. THE UPPER PART OF THE SUBSOIL TO A DEPTH OF ABOUT 13 INCHES IS YELLOWISH BROWN GRAVELLY SILT LOAM. THE NEXT PART TO A DEPTH OF ABOUT 17 INCHES IS YELLOWISH BROWN GRAVELLY SILTY CLAY LOAM. THE NEXT PART TO A DEPTH OF ABOUT 32 INCHES IS YELLOWISH BROWN GRAVELLY SILTY CLAY LOAM THAT HAS BROWNISH MOTTLES. BELOW THIS TO A DEPTH OF ABOUT 41 INCHES IS YELLOWISH BROWN VERY GRAVELLY SILTY CLAY THAT HAS MOTTLES. THE SUBSTRATUM TO A DEPTH OF ABOUT 49 INCHES IS FRACTURED AND WEATHERED BEDROCK. HARD BEDROCK IS AT A DEPTH OF ABOUT 49 INCHES. PERMEABILITY IS MODERATE OR MODERATELY RAPID, AND THE AVAILABLE WATER CAPACITY IS LOW. THE ROOT ZONE IS MODERATELY DEEP AND IS EASILY PENETRATED BY PLANT ROOTS. WATER MOVES ALONG THE SURFACE OF THE BEDROCK DURING WET SEASONS.

7. THIS PROJECT WILL DISTURB LESS THAN 50 AC. CONSTRUCTION PHASING IS NOT REQUIRED PER NPDES PERMIT SECTION 3.5.1.n.
8. THE PRIMARY CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF ALL EPSC MEASURES (NPDES PERMIT SECTION 3.5.2).
9. SEDIMENT IS TO BE REMOVED AS REQUIRED OR WHEN MEASURES ARE AT 50% CAPACITY PER NPDES PERMIT SECTION 3.5.3.1.e.
10. EPSC MEASURES SHOWN ON EROSION PLAN "A" MUST BE IN PLACE AND FUNCTIONAL BEFORE EARTH MOVING OPERATIONS BEGIN, AND MUST BE CONSTRUCTED AND MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD PER NPDES SECTION 3.5.3.1.f.
11. A STABILIZED CONSTRUCTION ACCESS SHALL BE IMPLEMENTED TO REDUCE THE TRACKING OF MUD AND DIRT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES PER NPDES PERMIT SECTION 3.5.3.1.g.
12. TEMPORARY OR PERMANENT STABILIZATION SHALL BE WITHIN 14 DAYS (7 DAYS FOR > 35% SLOPES) ON PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED PER NPDES PERMIT SECTION 3.5.3.2.
13. EPSC MEASURES HAVE BEEN DESIGNED TO CONTROL THE RAINFALL AND RUNOFF FROM A 5-YEAR, 24-HOUR STORM EVENT PER NPDES PERMIT SECTION 3.5.3.3.
14. FOR AN ON-SITE OUTFALL THAT RECEIVES DRAINAGE FROM 10 OR MORE ACRES, A SEDIMENT BASIN OR EQUIVALENT CONTROL MEASURES SHALL BE PROVIDED UNTIL FINAL STABILIZATION OF THE SITE PER NPDES PERMIT SECTION 3.5.3.3.
15. EPSC MEASURES PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL ARE INTENDED TO DISSIPATE ENERGY AND SLOW THE VELOCITY OF RUNOFF FLOW FROM THE SITE PER NPDES PERMIT SECTION 3.5.4.
16. MAINTENANCE NEEDS IDENTIFIED IN INSPECTIONS OR BY OTHER MEANS SHALL BE ACCOMPLISHED BEFORE THE NEXT STORM EVENT, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE NEED IS IDENTIFIED PER NPDES PERMIT SECTION 3.5.7.
17. ALL SEDIMENT CONTROL TO BE INSPECTED AT LEAST TWICE PER WEEK AND INSPECTIONS ARE TO BE PERFORMED AT LEAST 72 HOURS APART PER NPDES PERMIT SECTION 3.5.8.2.a.
18. EROSION PREVENTION AND SEDIMENT CONTROL MUST BE IN PLACE AND INSPECTED BY THE CITY OF GALLATIN STORMWATER INSPECTOR PRIOR TO GRADING AS SHOWN ON THESE PLANS AND CONTAINED IN THIS SWPPP.
19. A LAND DISTURBANCE PERMIT IS TO BE OBTAINED FROM THE CITY OF GALLATIN STORMWATER DEPARTMENT PRIOR TO GRADING
20. TOPSOIL IS TO BE STRIPPED AND STORED. COMPACT SITE TOPSOIL PILES BY WALKING DOZIER (D-6 OR GREATER) UNTIL TOTAL TOPSOIL STOCKPILE IS IN PLACE. TEMPORARY SEED TOPSOIL STOCKPILE WITHIN 14 DAYS AFTER STOCKPILE IS COMPLETE.

SWPPP CONSTRUCTION SEQUENCING OF WORK (NPDES PERMIT SECTION 3.5.1.b)

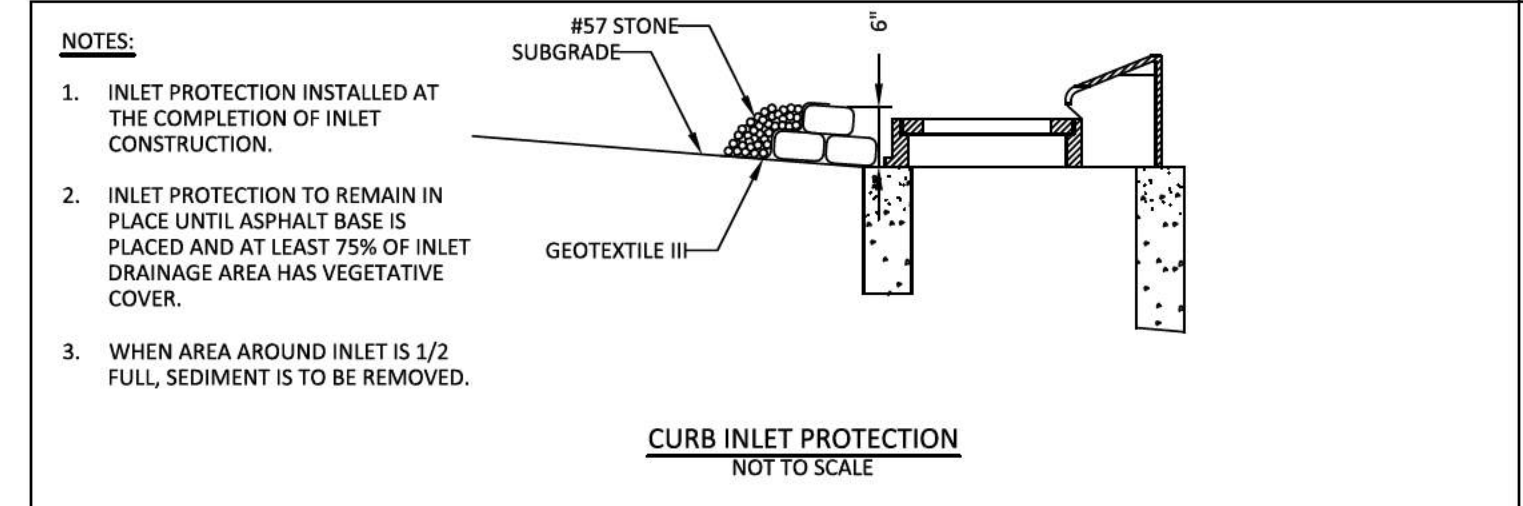
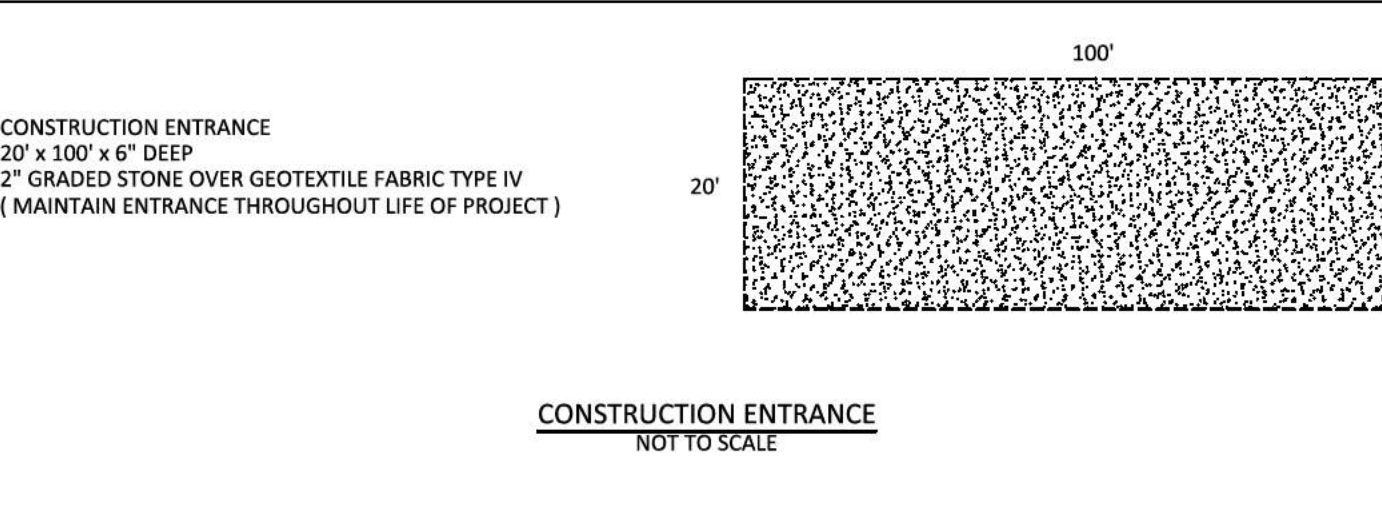
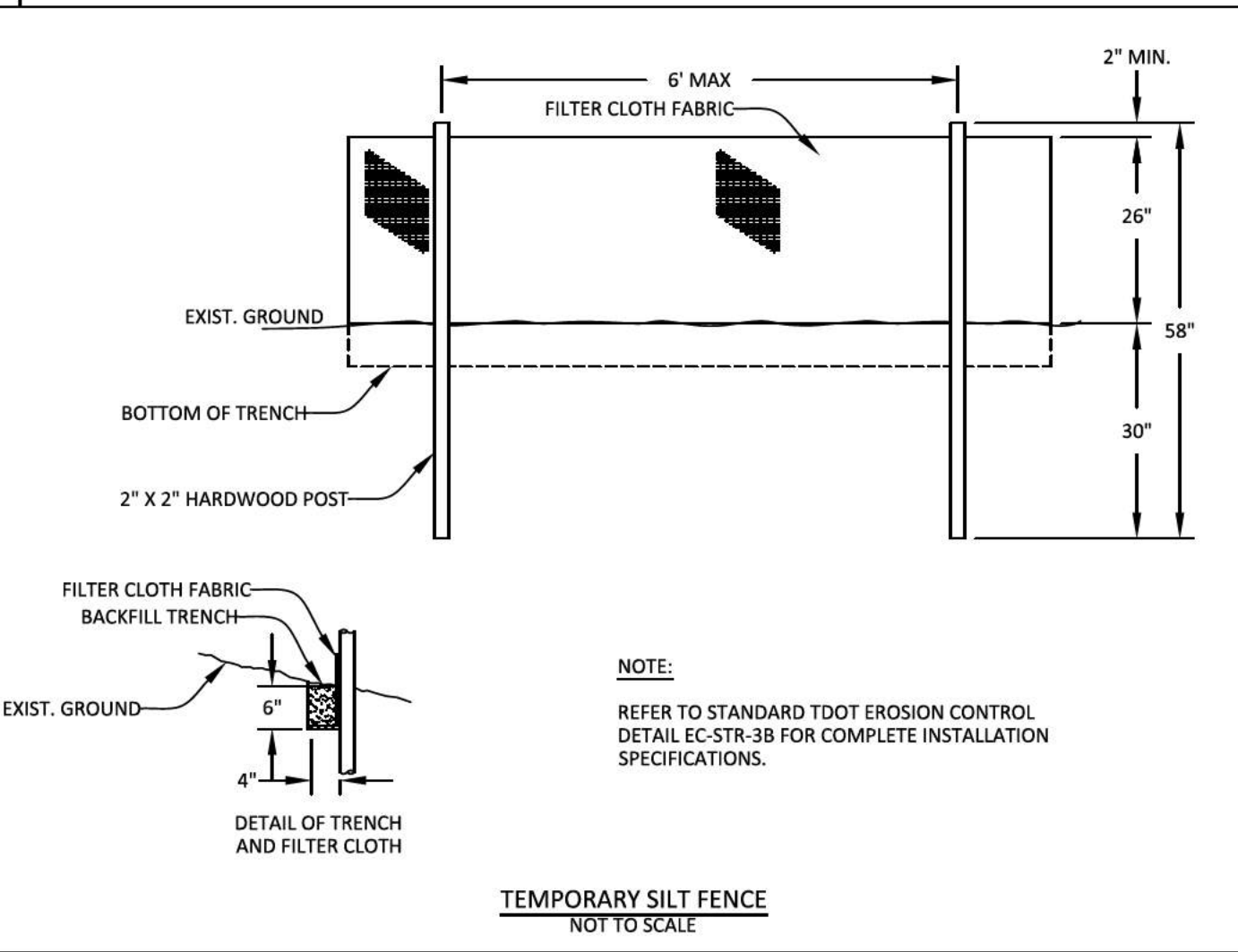
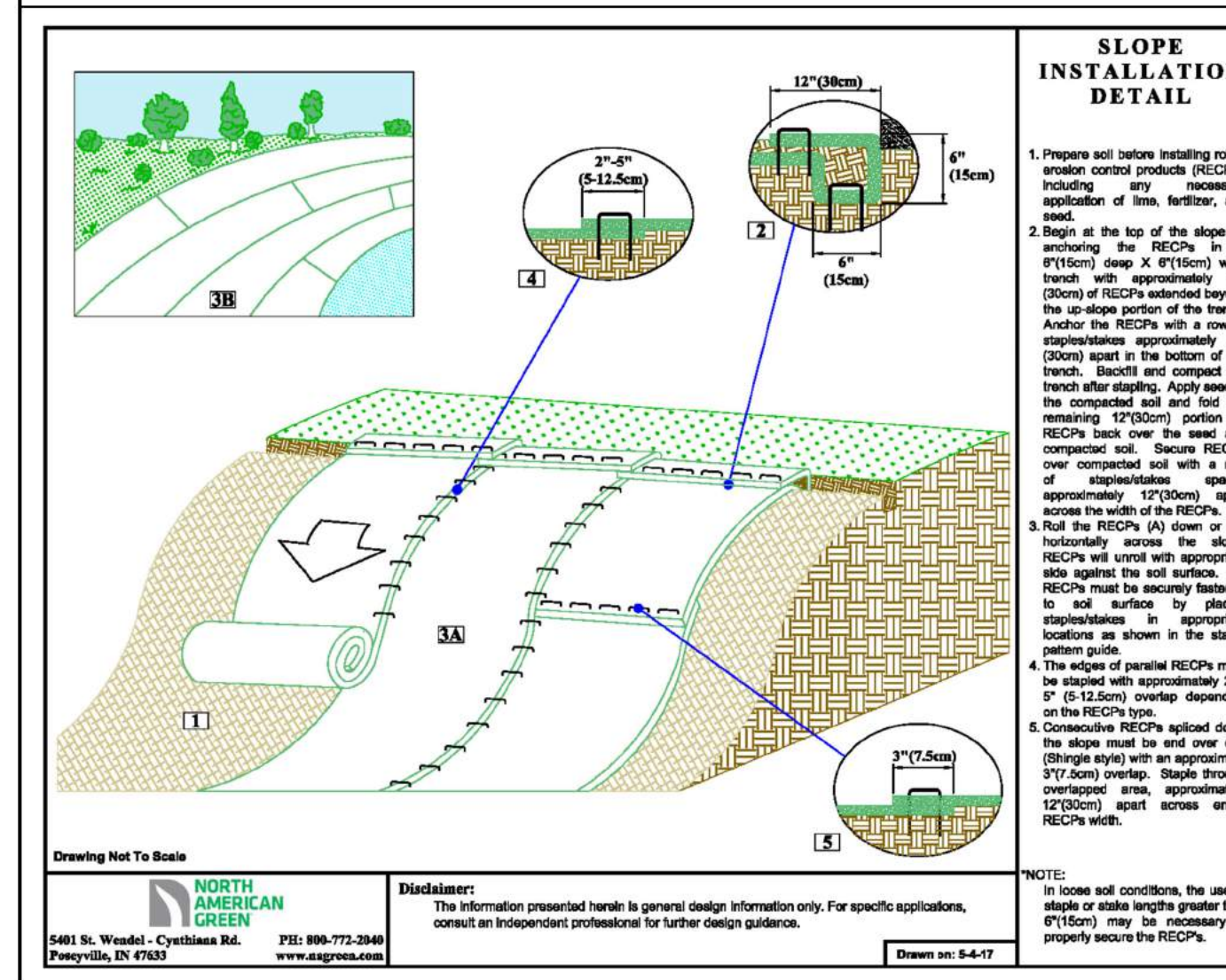
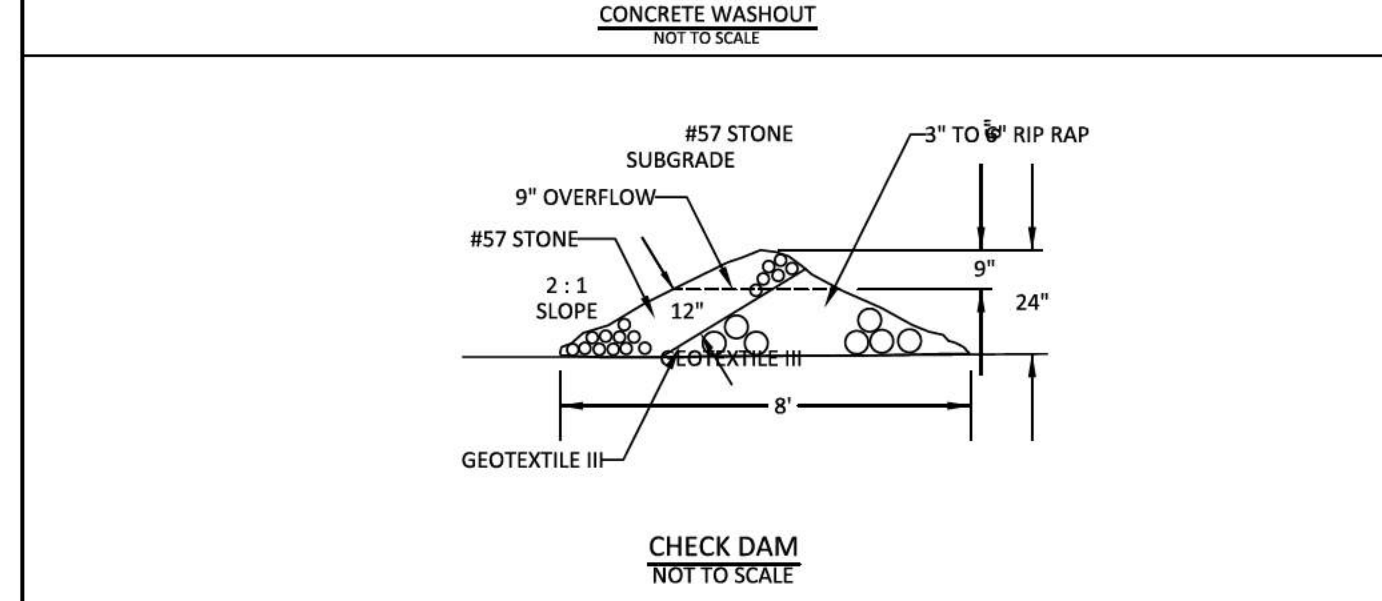
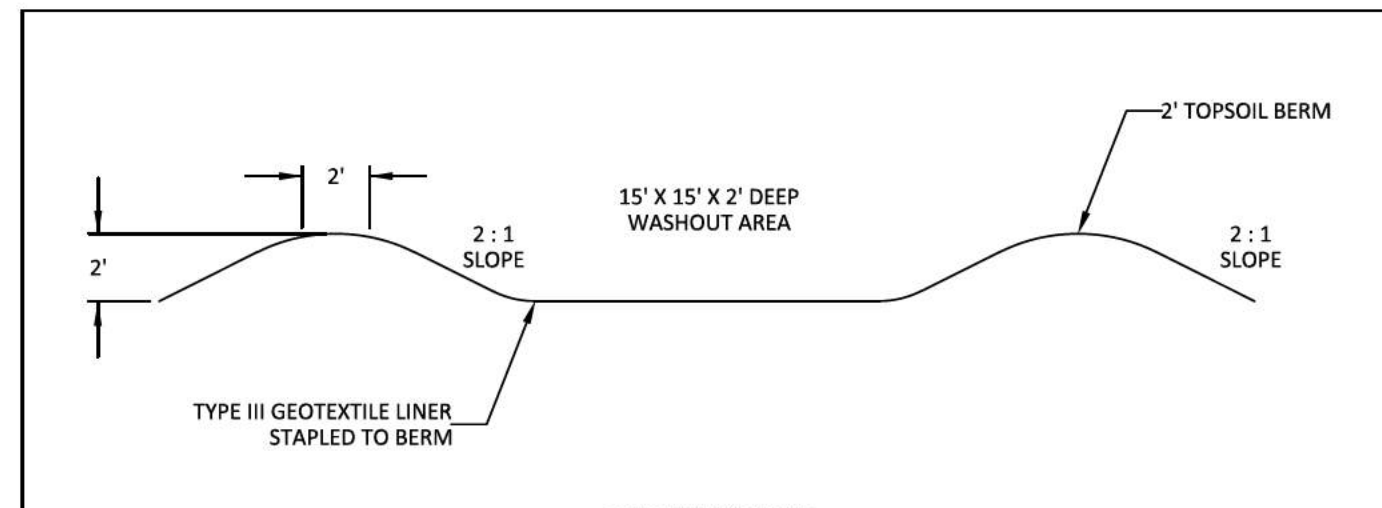
(ALTERNATE SEQUENCING MAY BE PROPOSED IF APPROVED BY THE CITY OF GALLATIN STORMWATER INSPECTOR.)

LIMITATION OF CONSTRUCTION DISTURBED AREA
FIELD STAKE CONSTRUCTION LIMITS BEFORE COMMENCING WORK IN ORDER TO VERIFY THE DISTURBED AREA LIMITS FOR THE CONTRACTOR.

1. INSTALL INITIAL EPSC MEASURES INCLUDING SEDIMENT TRAPS, CONSTRUCTION EXIT, AND TEMPORARY SILT FENCE.
2. CLEAR AND GRUBB AS REQUIRED.
3. STRIP TOPSOIL IN ROADWAYS, DITCHES, AND POND. STORE TOPSOIL IN DESIGNATED AREA.
4. EXCAVATE DETENTION POND, INSTALL POND OUTLET STRUCTURE, PIPES, AND ENDWALLS.
5. PERMANENTLY STABILIZE POND AREA IMMEDIATELY UPON COMPLETION OF GRADING AND STRUCTURE INSTALLATION AND INSTALL FILTER RING AT POND OUTLET STRUCTURE.
6. DO NOT GRADE OUTSIDE OF DRAINAGE PATH LINE TO ENSURE NO UNNECESSARY RUNOFF DRAINS TO CONSTRUCTION SITE AND ENSURES CLEAN WATER BYPASSES THE SITE ON ITS NATURAL DRAINAGE PATH.
7. MASS GRADE ROADWAY.
8. INSTALL ROCK CHECKS IN DITCHES AND PERMANENTLY STABILIZE.
9. INSTALL STORM STRUCTURES AND PIPES AND ASSOCIATED EPSC MEASURES.
10. GRADE LOTS AS NECESSARY AND PERMANENTLY STABILIZE.
11. FILL IN SEDIMENT TRAPS AND STABILIZE.
12. CONSTRUCT UTILITY MAINS AND SERVICES.
13. FINAL GRADE ROADWAYS AND INSTALL BASE STONE AND BINDER.
14. INSTALL EXTRUDED CURB.
15. FINISH GRADE BEHIND CURBS WITH TOPSOIL.
16. STABILIZE ANY REMAINING DISTURBED AREAS.
17. REMOVE TEMPORARY MEASURES ONCE A GOOD STAND OF GRASS IS ESTABLISHED (>70% OF SURFACES UNIFORMLY COVERED WITH GRASS). SEED AND MATT ALL AREAS AND ANY REMAINING DISTURBED AREAS.

SPILLS AND NON-STORMWATER CONTINGENCIES

1. ALL FUELING OF EQUIPMENT AND VEHICLES ON SITE WILL BE CONDUCTED NEAR THE STAGING AREA. ANY SPILLAGE WILL BE REMOVED IMMEDIATELY. CONTAMINATED SOILS WILL BE PLACED ON HEAVY PLASTIC AND COVERED OR PLACED IN APPROVED CONTAINERS TO PREVENT CONTACT WITH STORM WATER.
2. ALL FUEL TANKS WILL BE IN THE CONTAINMENT AREA.
3. OILS, OTHER VEHICLE FLUIDS, PAINTS, AND SOLVENTS WILL BE STORED IN THE CONSTRUCTION TRAILER.
4. EQUIPMENT FUEL OR MAINTENANCE SPILLS OF 2 GALLONS OR MORE WILL BE REPORTED IMMEDIATELY TO A REPRESENTATIVE OF THE PRIMARY CONTRACTOR.
5. IF A RELEASE CONTAINING A HAZARDOUS SUBSTANCE IN AN AMOUNT EQUAL TO OR IN EXCESS OF A REPORTING QUANTITY ESTABLISHED UNDER EITHER 40 CFR 117 OR 40 CFR 302 OCCURS DURING A 24-HOUR PERIOD, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE PERMITEE WHO SHALL THEN DO THE FOLLOWING: NOTIFY THE NATIONAL RESPONSE CENTER (NRC) (800-424-8802) AND THE TENNESSEE EMERGENCY MANAGEMENT AGENCY (TEMA) (EMERGENCIES: 800-262-3300; NON-EMERGENCIES: 800-262-3400); AS WELL AS THE LOCAL ENVIRONMENTAL ASSISTANCE CENTER. ALSO, GREENLID DESIGN, LLC WILL PREPARE A REVISION OF THIS DOCUMENT TO IDENTIFY MEASURES TO PREVENT THE REOCCURRENCE OF SUCH RELEASES.
6. CONCRETE TRUCKS WILL WASH OUT AT THE DESIGNATED AREA NEAR THE STAGING AREA.
7. EACH CONTRACTOR IS RESPONSIBLE TO PROVIDE LITTER CONTROL FOR TRASH GENERATED BY HIS CREW. A DUMPSTER FOR GARBAGE WILL BE LOCATED NEAR THE CONSTRUCTION TRAILER AND IS LIMITED TO GARBAGE AND PAPER TRASH ONLY.
8. PAINT CANS, OIL CANS, USED OIL, AND FILTERS WILL BE CONTAINED AND DISPOSED OF BY THE CONTRACTOR BY TAKING THEM TO THE SUMNER COUNTY RESOURCE AUTHORITY AT 625 RAPPAHANNOCK WIRE ROAD, GALLATIN, TN 37066.



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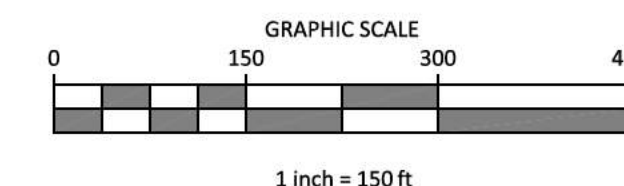
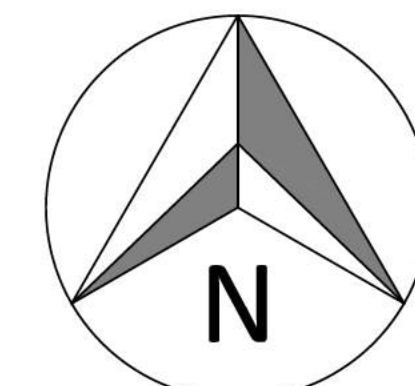
01-08-23

PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

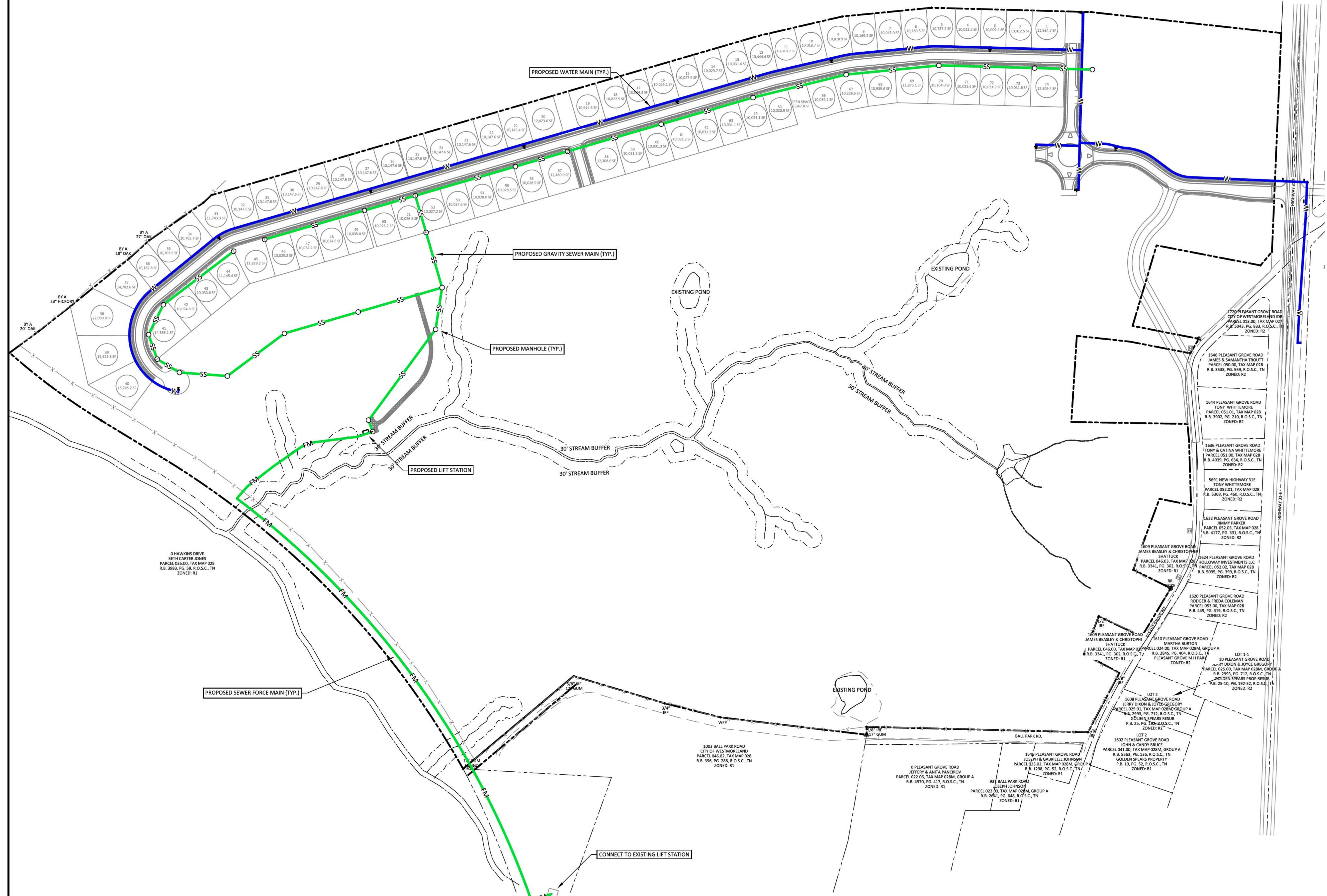
EROSION CONTROL NOTES & DETAILS

NO.	DATE	REVISION
1	05-13-2022	PER CITY COMMENTS
2	06-16-2022	PER CITY COMMENTS
3	08-23-2022	PER CITY COMMENTS
4	10-25-2022	PER CITY COMMENTS
5	02-07-2023	PER CITY COMMENTS

SHEET NO. C 8.0
SHEET 30 OF 47
JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - BUFFER
 - SETBACK / YARD
 - PUDE
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
 - FM SANITARY FORCE MAIN
 - W WATER LINE
 - STORM SEWER
 - G GAS LINE
 - OHE OVERHEAD UTILITY LINE
 - UGT UNDERGROUND UTILITY LINE
 - FENCE
 - TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD



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 SUMNER COUNTY, TENNESSEE

OVERALL UTILITY LAYOUT

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

SHEET NO. C 9.0
 SHEET 31 OF 47

811
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 TENNESSEE ONE CALL IT'S THE LAW

SHEET C 10.3

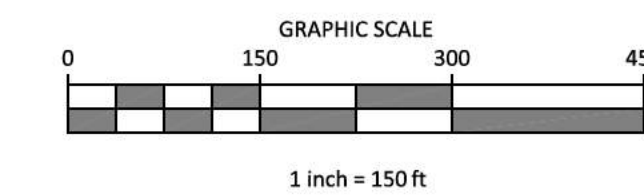
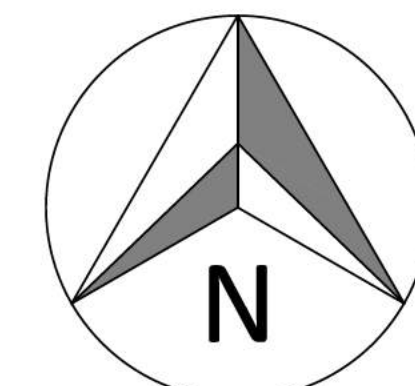
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SHEET C 10.4

SHEET C 10.3

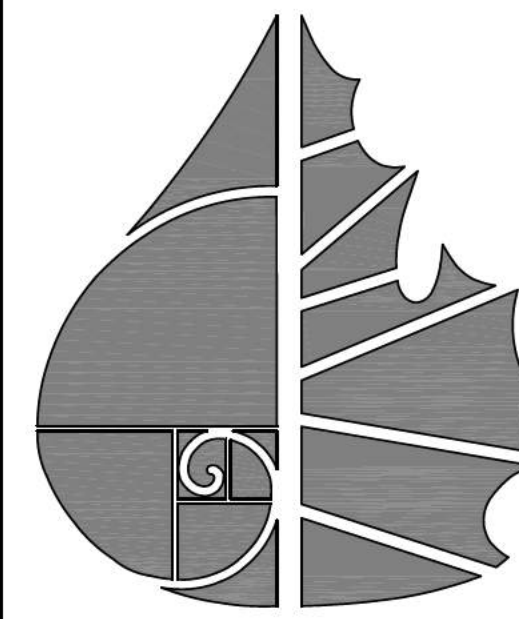
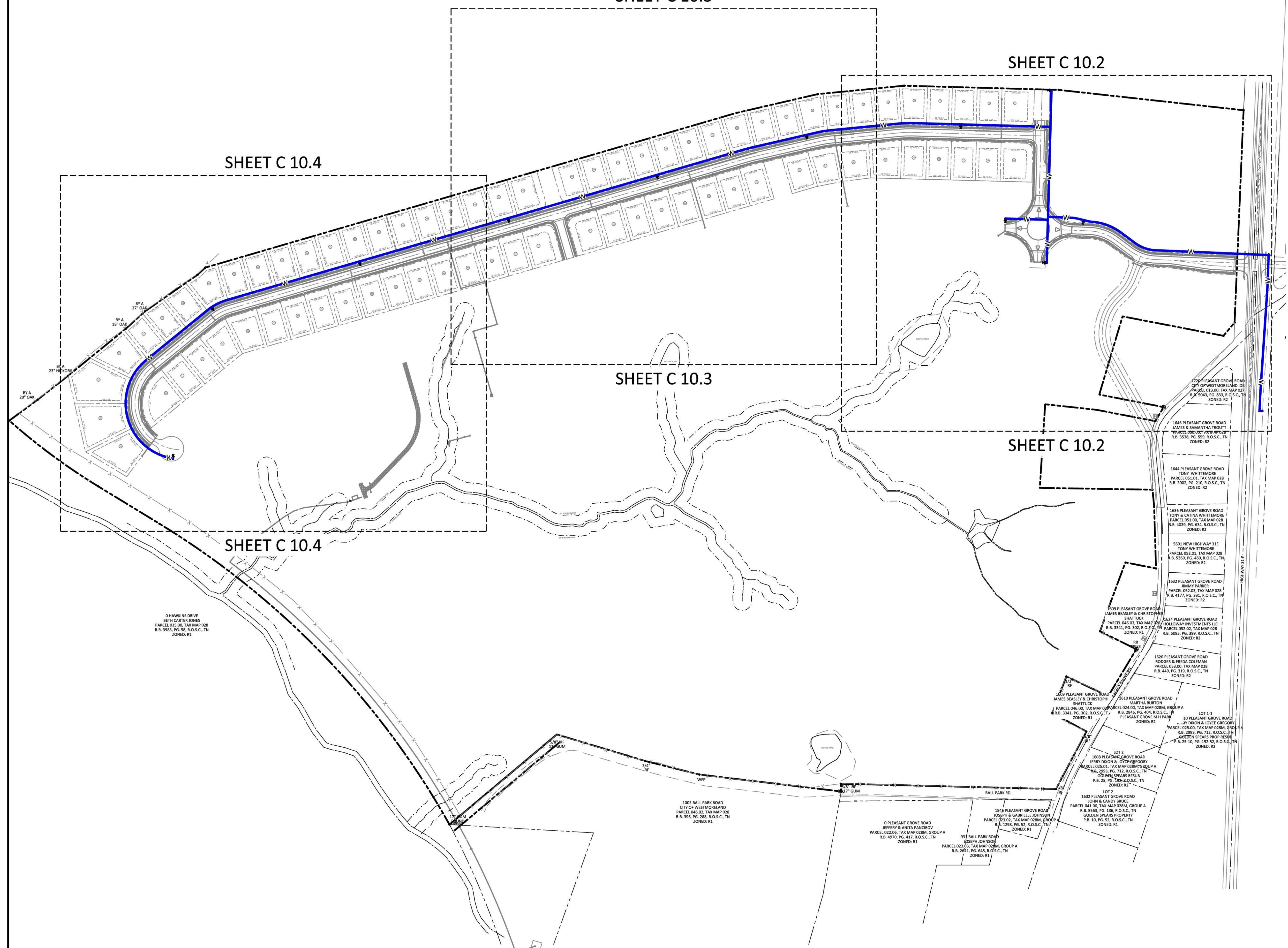
SHEET C 10.2

SHEET C 10.4



LEGEND

- CONCRETE MONUMENT (OLD)
- CONCRETE MONUMENT (NEW)
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- IRON ROD (NEW)
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CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

OVERALL WATER DISTRIBUTION

NO.	DATE	REVISION	PER CITY COMMENTS
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2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

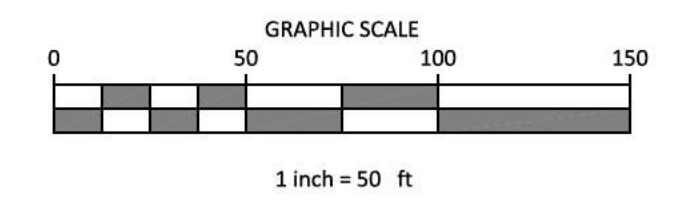
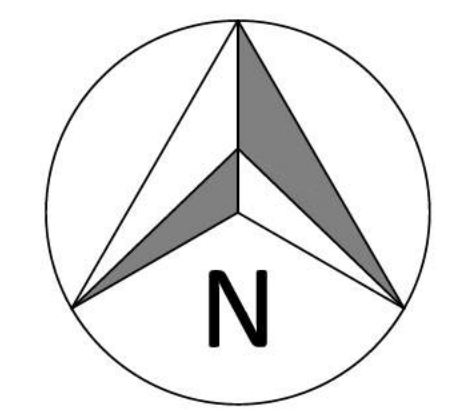
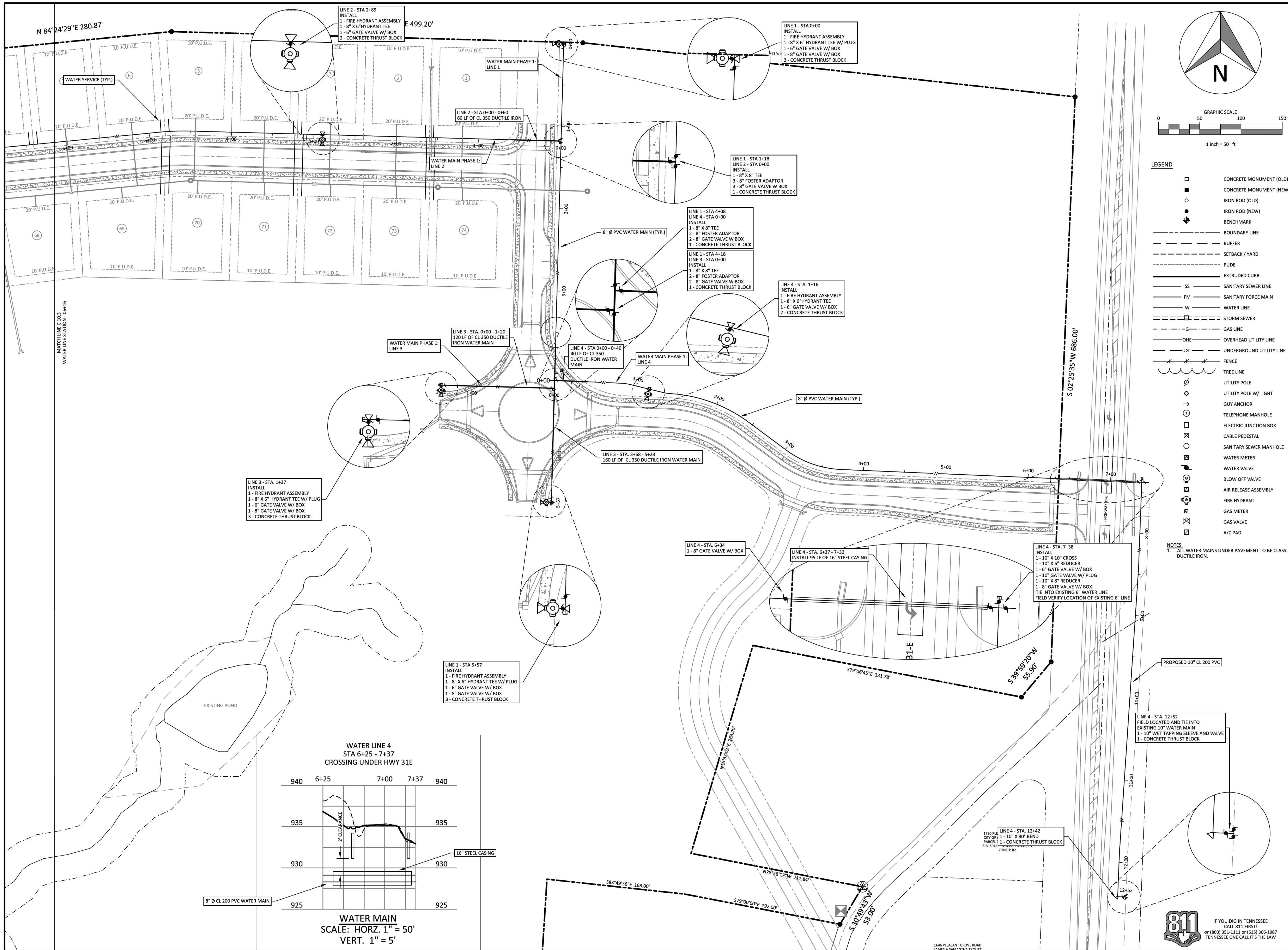


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SHEET NO.
C 10.1

SHEET 32 OF 47

JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
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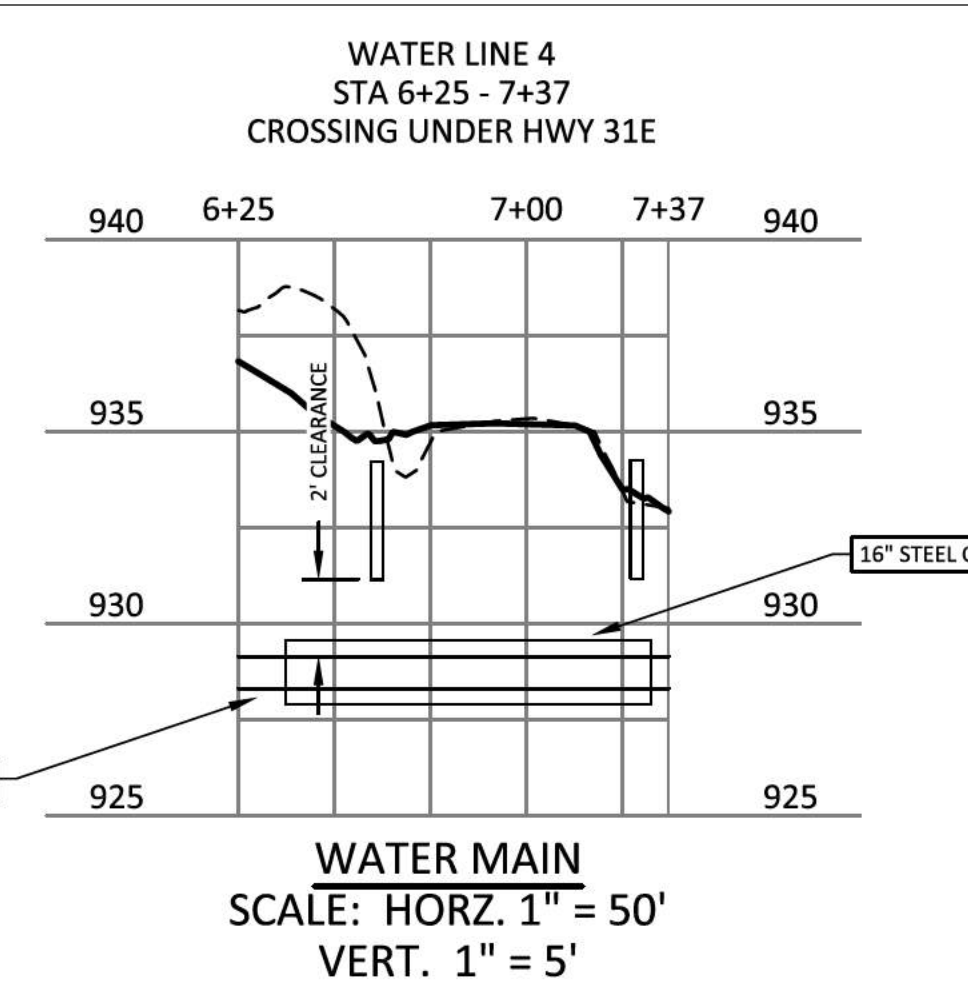
NOTES:
1. ALL WATER MAINS UNDER PAVEMENT TO BE CLASS 350 DUCTILE IRON.

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WATER DISTRIBUTION



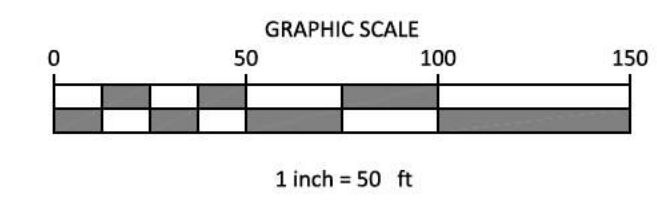
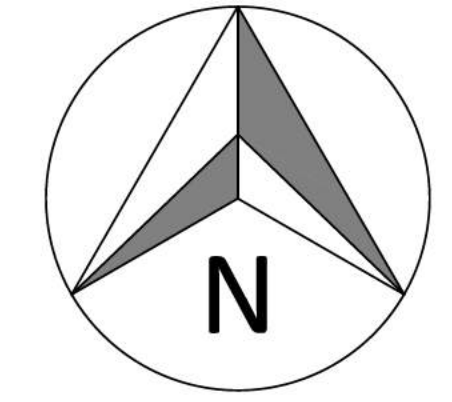
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SHEET NO. C 10.2
SHEET 33 OF 47
JOB# 21.112G 23 MARCH 2022



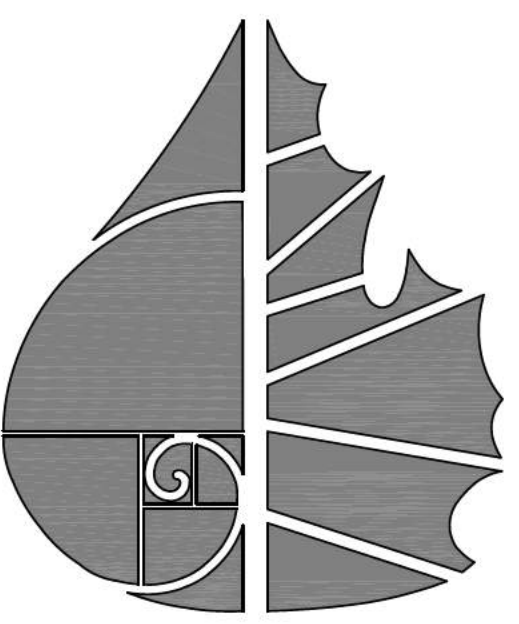
MATCH LINE C.10.4
WATER LINE STATION - 19+33

MATCH LINE C.10.2
WATER LINE STATION - 06+16



LEGEND

- CONCRETE MONUMENT (OLD)
- CONCRETE MONUMENT (NEW)
- IRON ROD (OLD)
- IRON ROD (NEW)
- ⊕ BENCHMARK
- BOUNDARY LINE
- - - - - BUFFER
- - - - - SETBACK / YARD
- - - - - P.U.D.E.
- EXTRUDED CURB
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- - - - - S STORM SEWER
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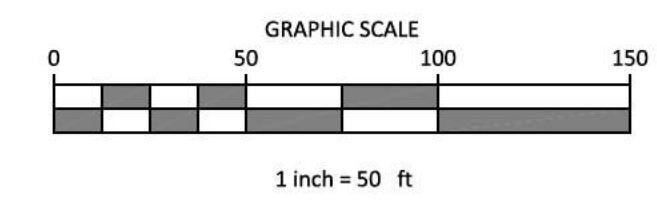
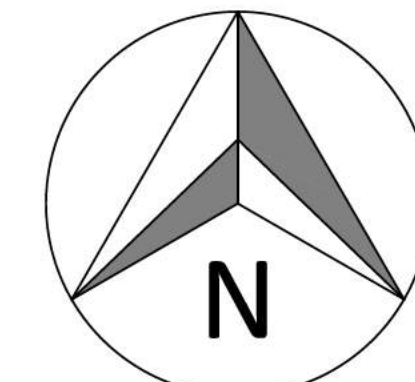
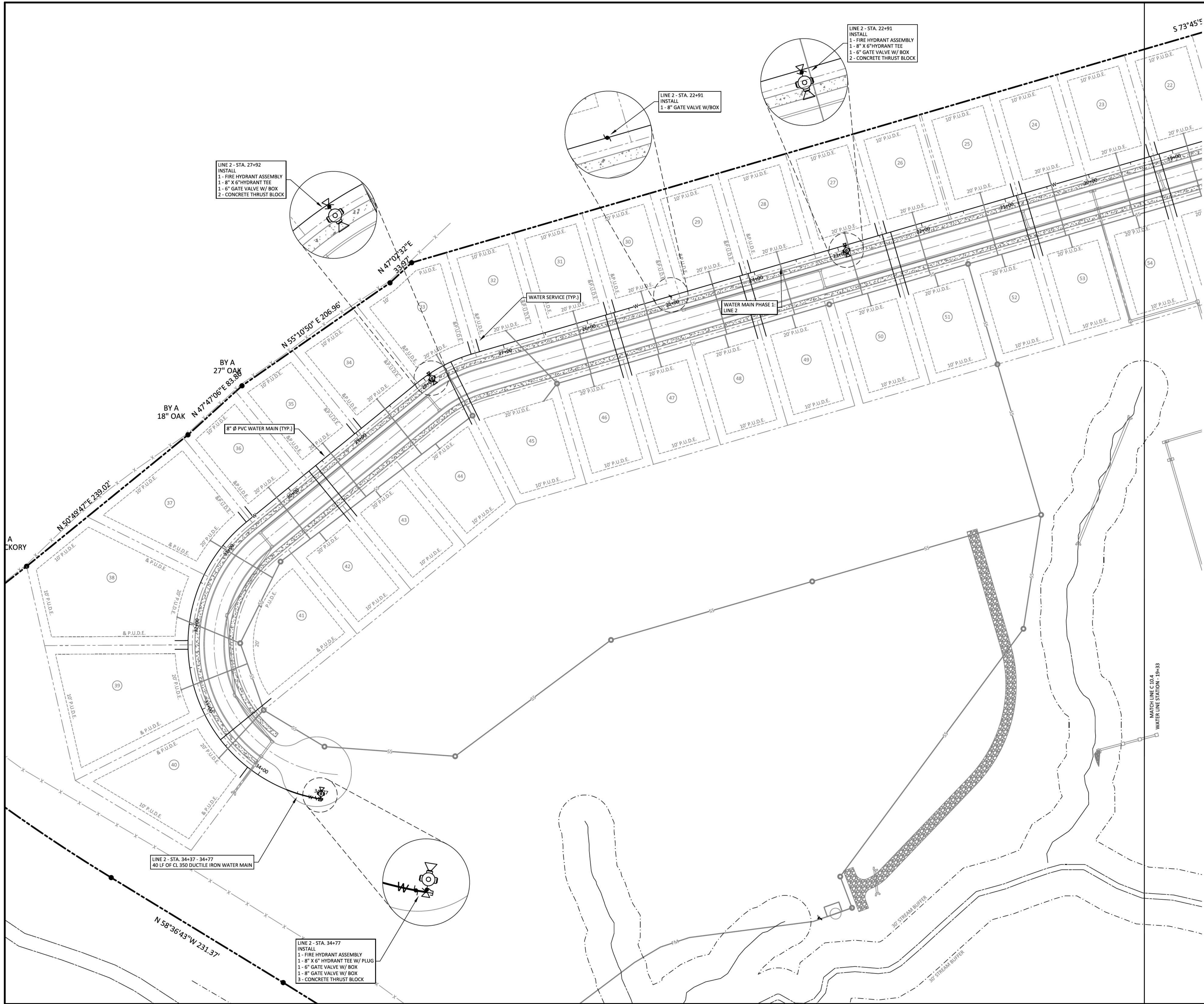
WATER DISTRIBUTION PLAN

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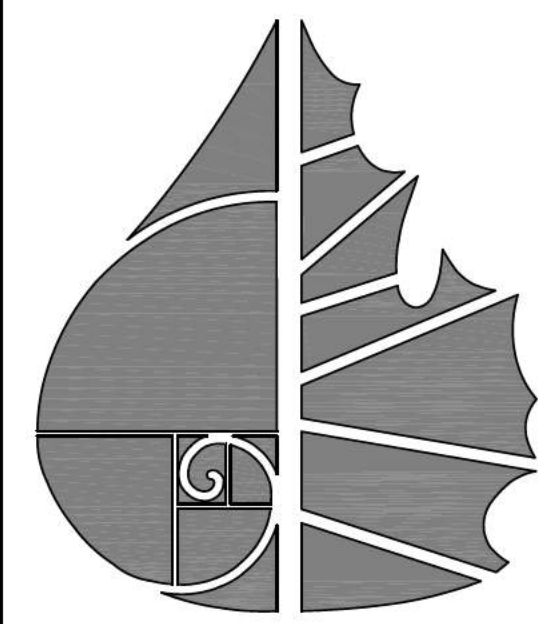
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SHEET NO.
C 10.3
SHEET 34 OF 47



LEGEND

	CONCRETE MONUMENT (OLD)
	CONCRETE MONUMENT (NEW)
	IRON ROD (OLD)
	IRON ROD (NEW)
	BENCHMARK
	BOUNDARY LINE
	BUFFER
	SETBACK / YARD
	PUDE
	EXTRUDED CURB
	SANITARY SEWER LINE
	SANITARY FORCE MAIN
	WATER LINE
	STORM SEWER
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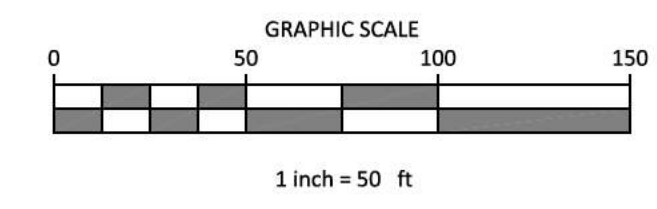
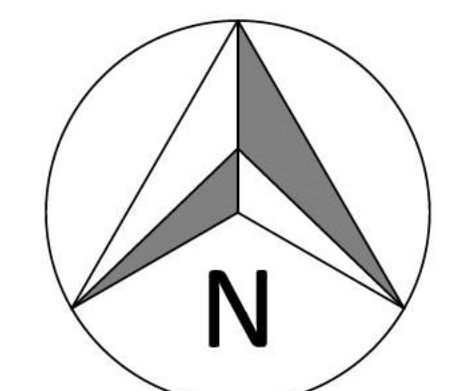
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

WATER DISTRIBUTION PLAN

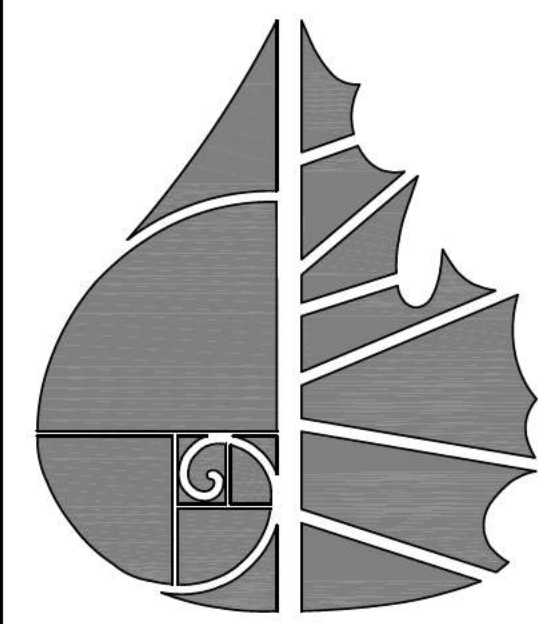
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SHEET NO. C 10.4
 SHEET 35 OF 47





- LEGEND**
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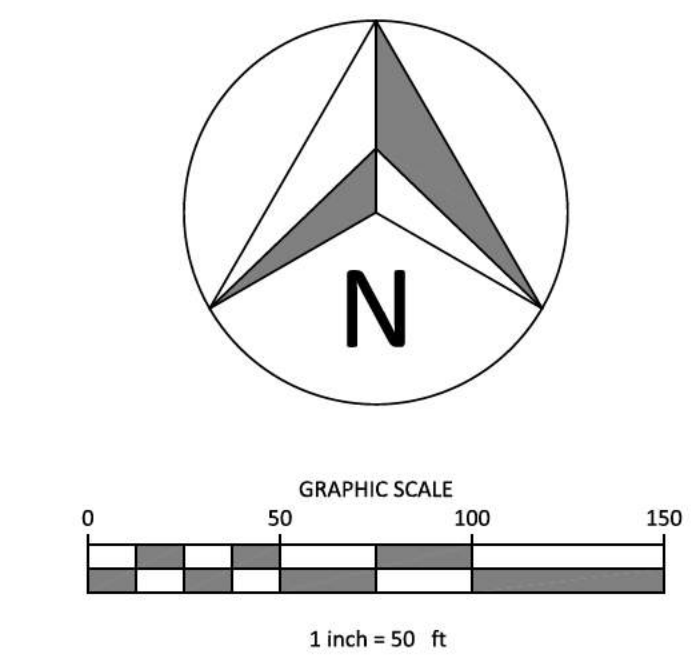
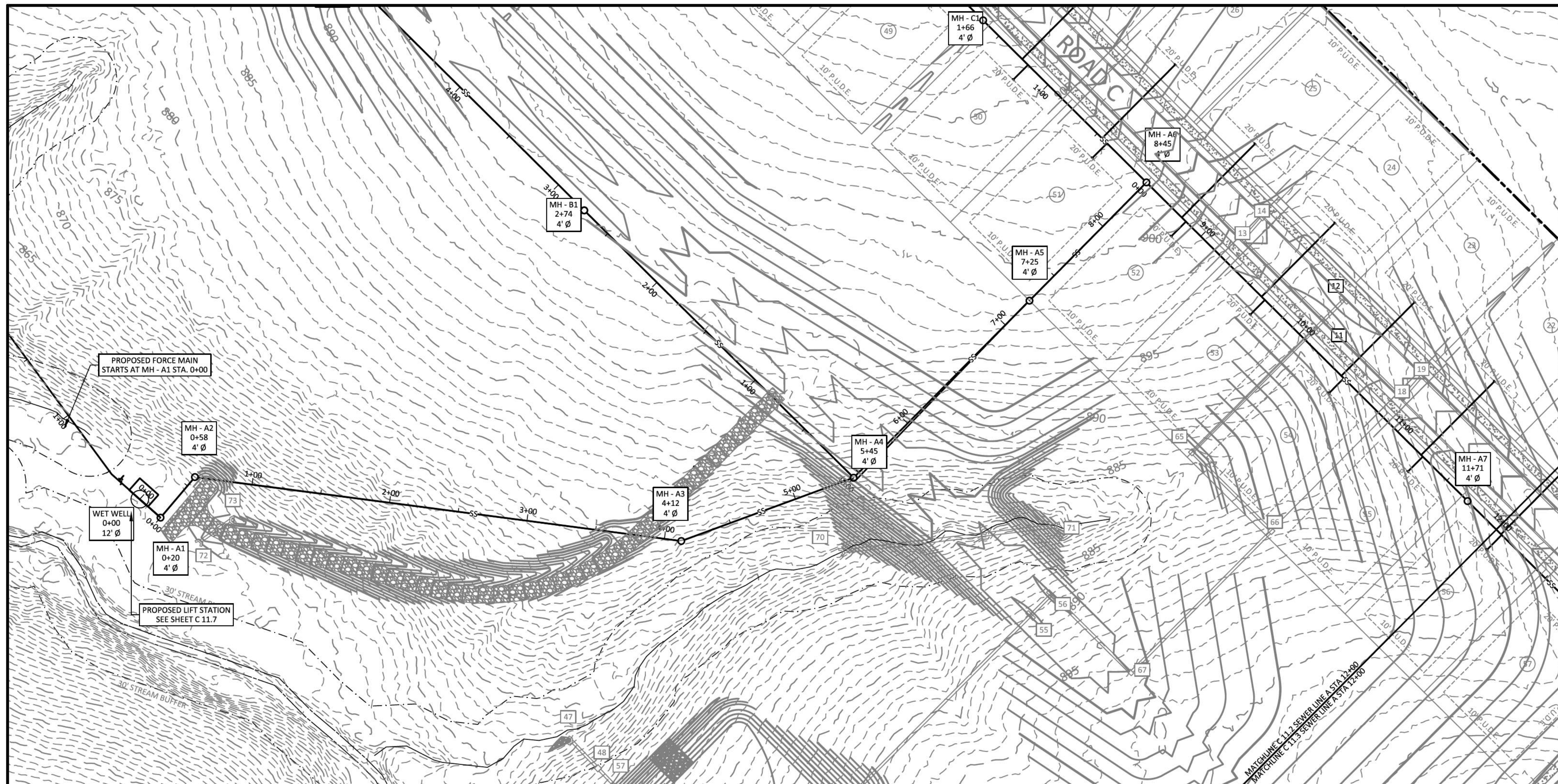
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

SEWER PROFILE

NO.	DATE	REVISION	PER CITY COMMENTS
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2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		



SHEET NO.
C 11.1
 SHEET 36 OF 47

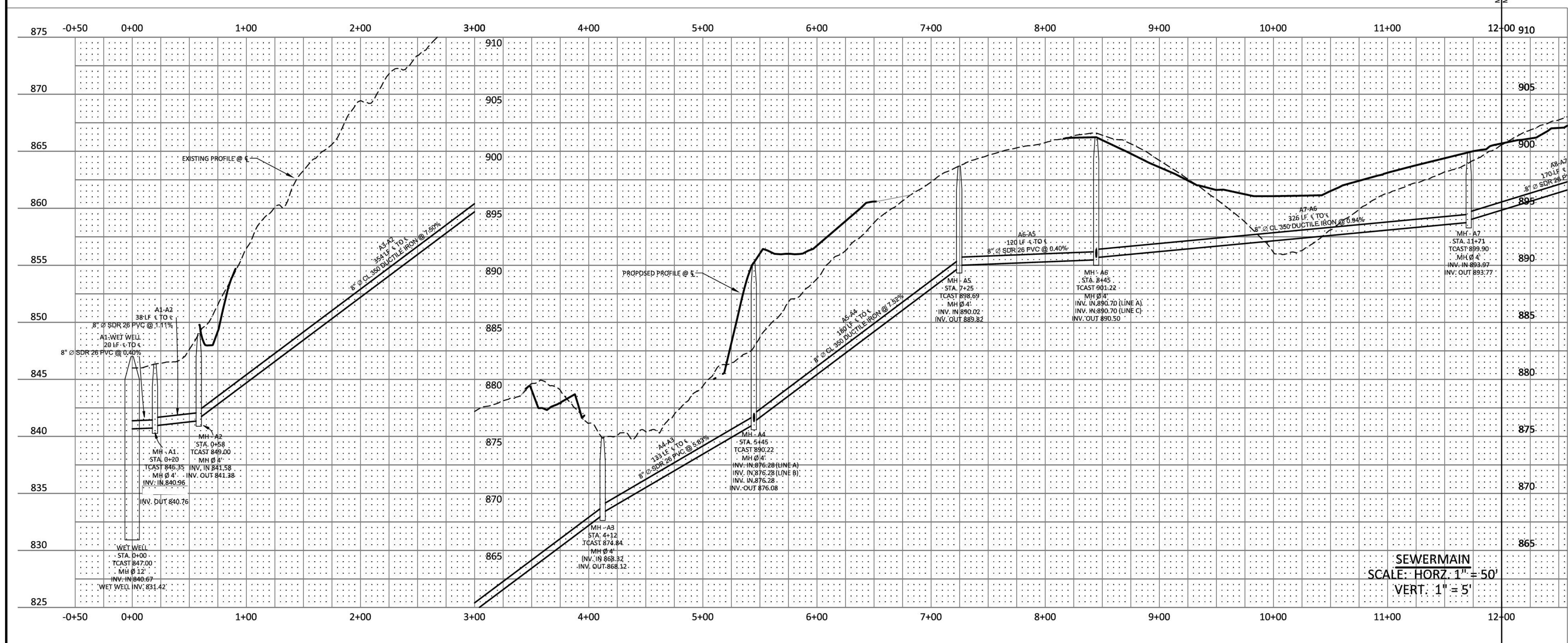


- LEGEND**
- CONCRETE MONUMENT (OLD)
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 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

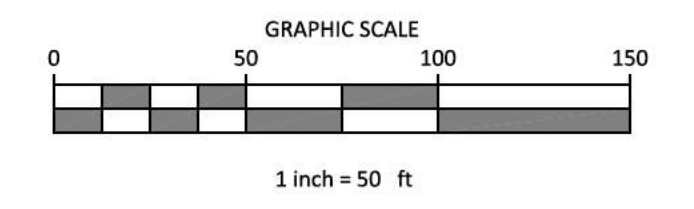
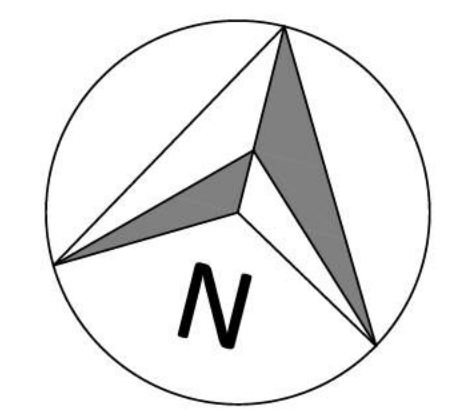
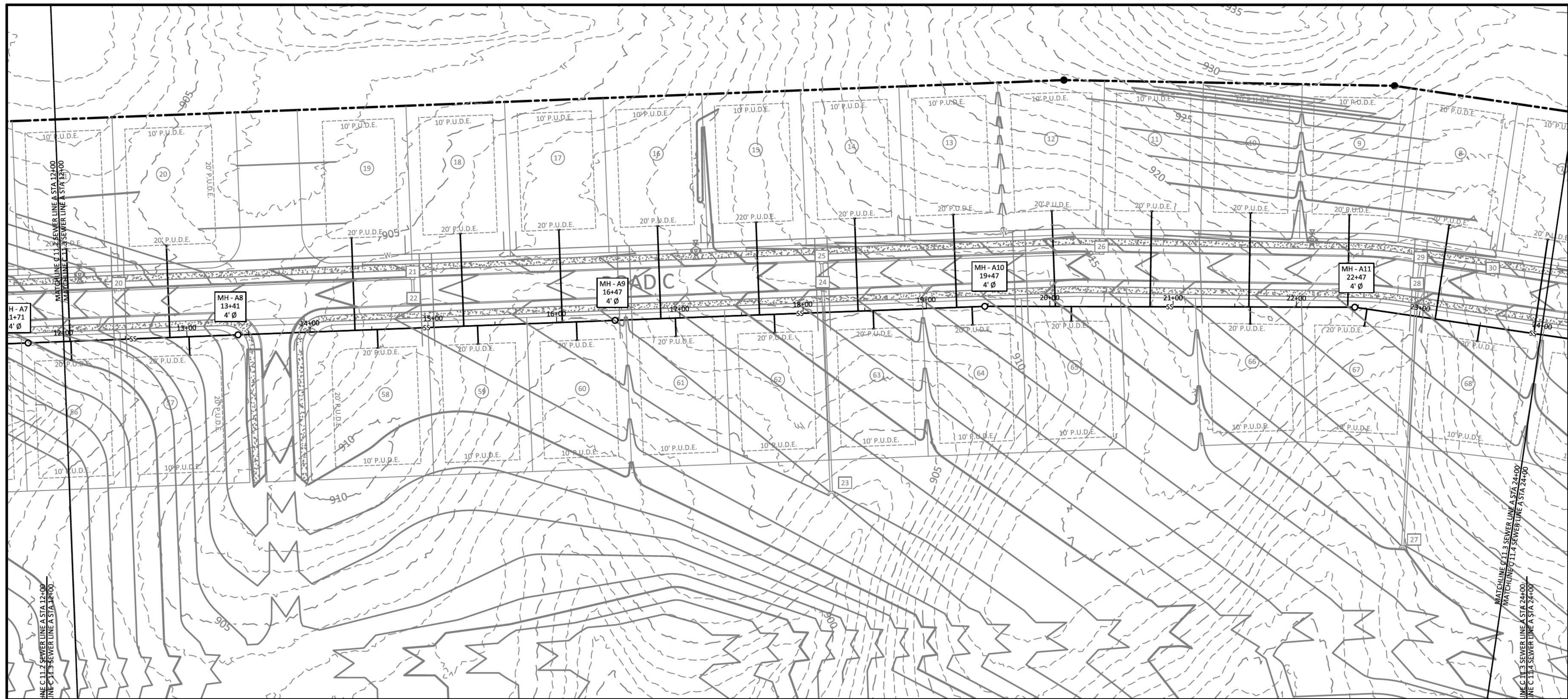


SEWERMAIN
 SCALE: HORIZ. 1" = 50'
 VERT. 1" = 5'

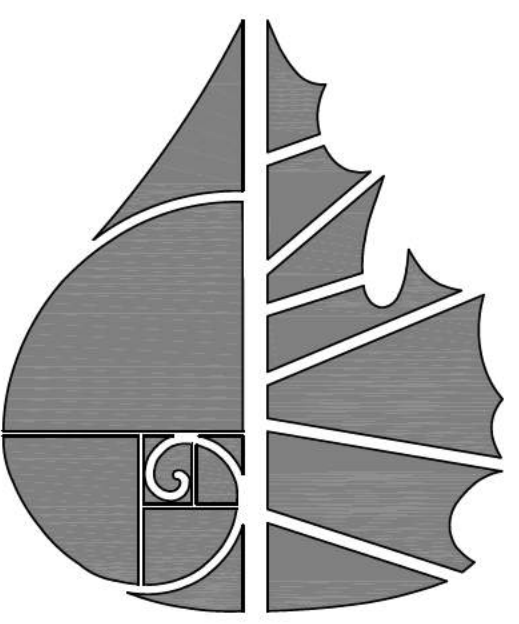
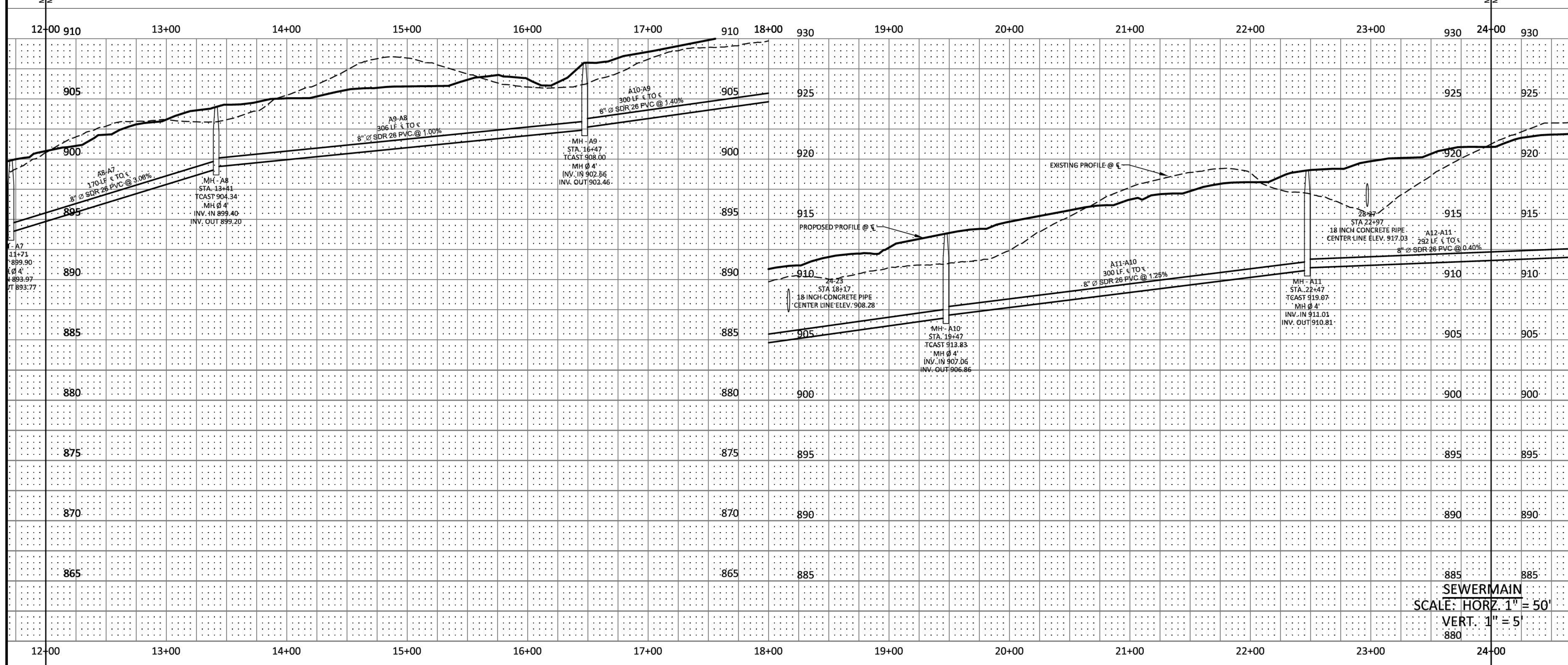


NO.	DATE	REVISION	PER CITY COMMENTS
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SHEET NO. C 11.2
 SHEET 37 OF 47
 JOB# 21.112G 23 MARCH 2022



- LEGEND**
- CONCRETE MONUMENT (OLD)
 - CONCRETE MONUMENT (NEW)
 - IRON ROD (OLD)
 - IRON ROD (NEW)
 - ⊕ BENCHMARK
 - BOUNDARY LINE
 - BUFFER
 - SETBACK / YARD
 - P.U.D.E.
 - EXTRUDED CURB
 - SS SANITARY SEWER LINE
 - FM SANITARY FORCE MAIN
 - W WATER LINE
 - STORM SEWER
 - G GAS LINE
 - OHE OVERHEAD UTILITY LINE
 - UGT UNDERGROUND UTILITY LINE
 - FENCE
 - TREE LINE
 - UTILITY POLE
 - UTILITY POLE W/ LIGHT
 - GUY ANCHOR
 - TELEPHONE MANHOLE
 - ELECTRIC JUNCTION BOX
 - CABLE PEDESTAL
 - SANITARY SEWER MANHOLE
 - WATER METER
 - WATER VALVE
 - BLOW OFF VALVE
 - AIR RELEASE ASSEMBLY
 - FIRE HYDRANT
 - GAS METER
 - GAS VALVE
 - A/C PAD



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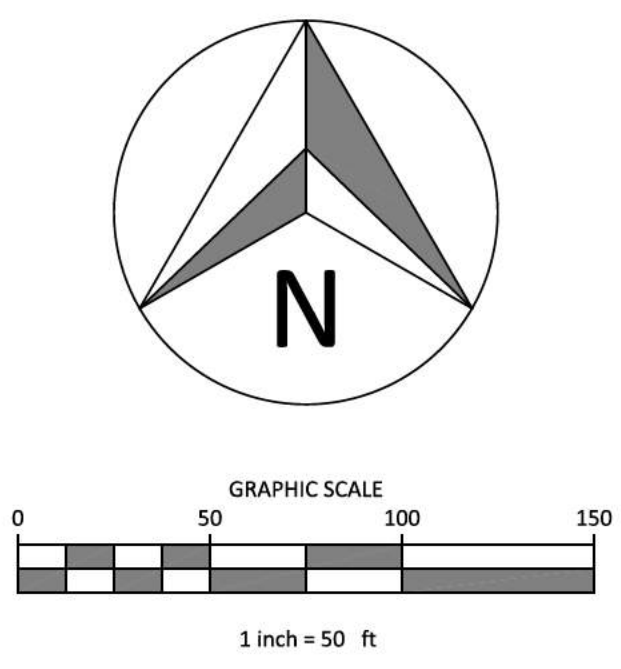
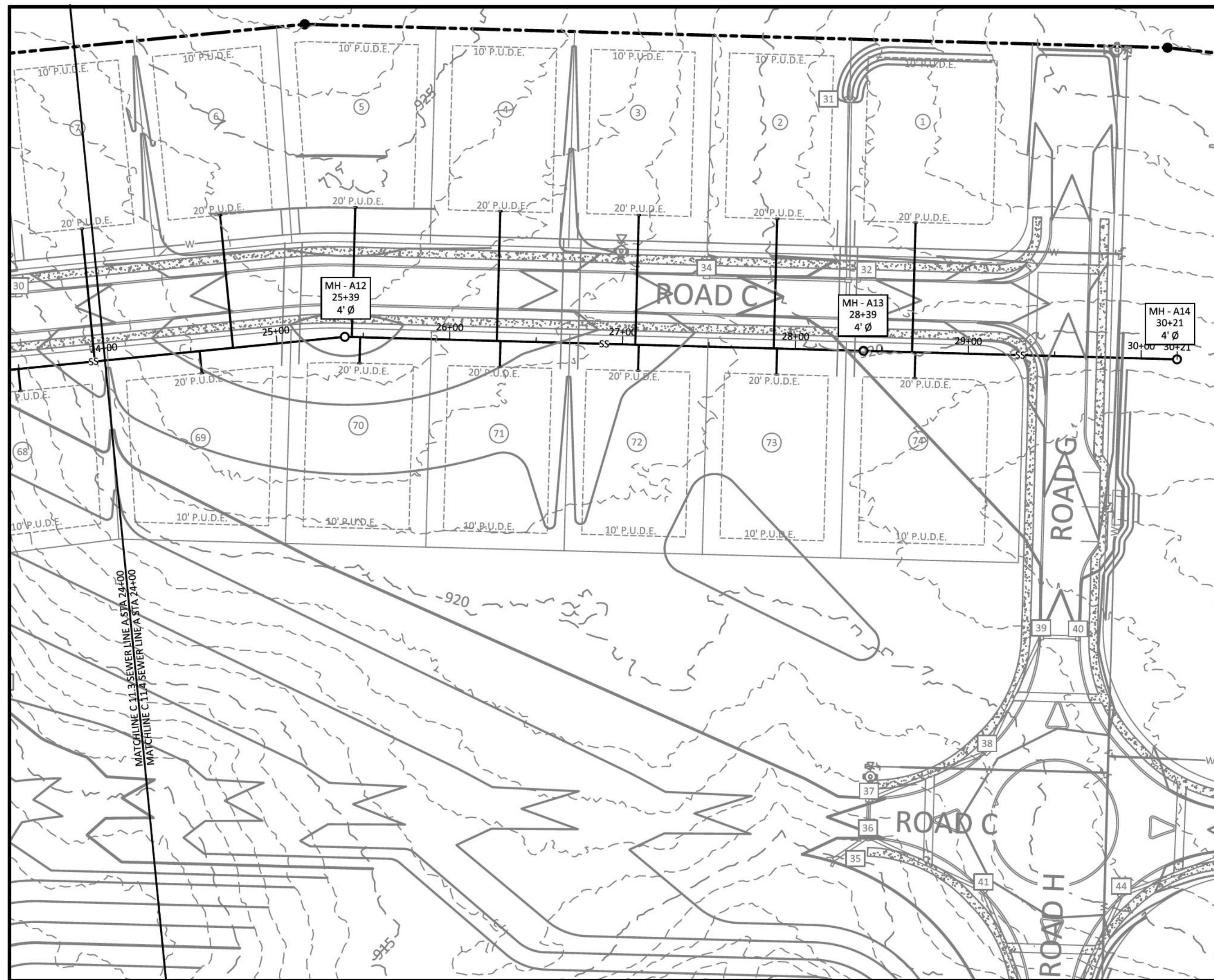
PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

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SHEET NO.
C 11.3
SHEET 38 OF 47



IF YOU DIG IN TENNESSEE
CALL 811 FIRST!
OR (800) 951-1111 OR (615) 366-1987
TENNESSEE ONE CALL IT'S THE LAW

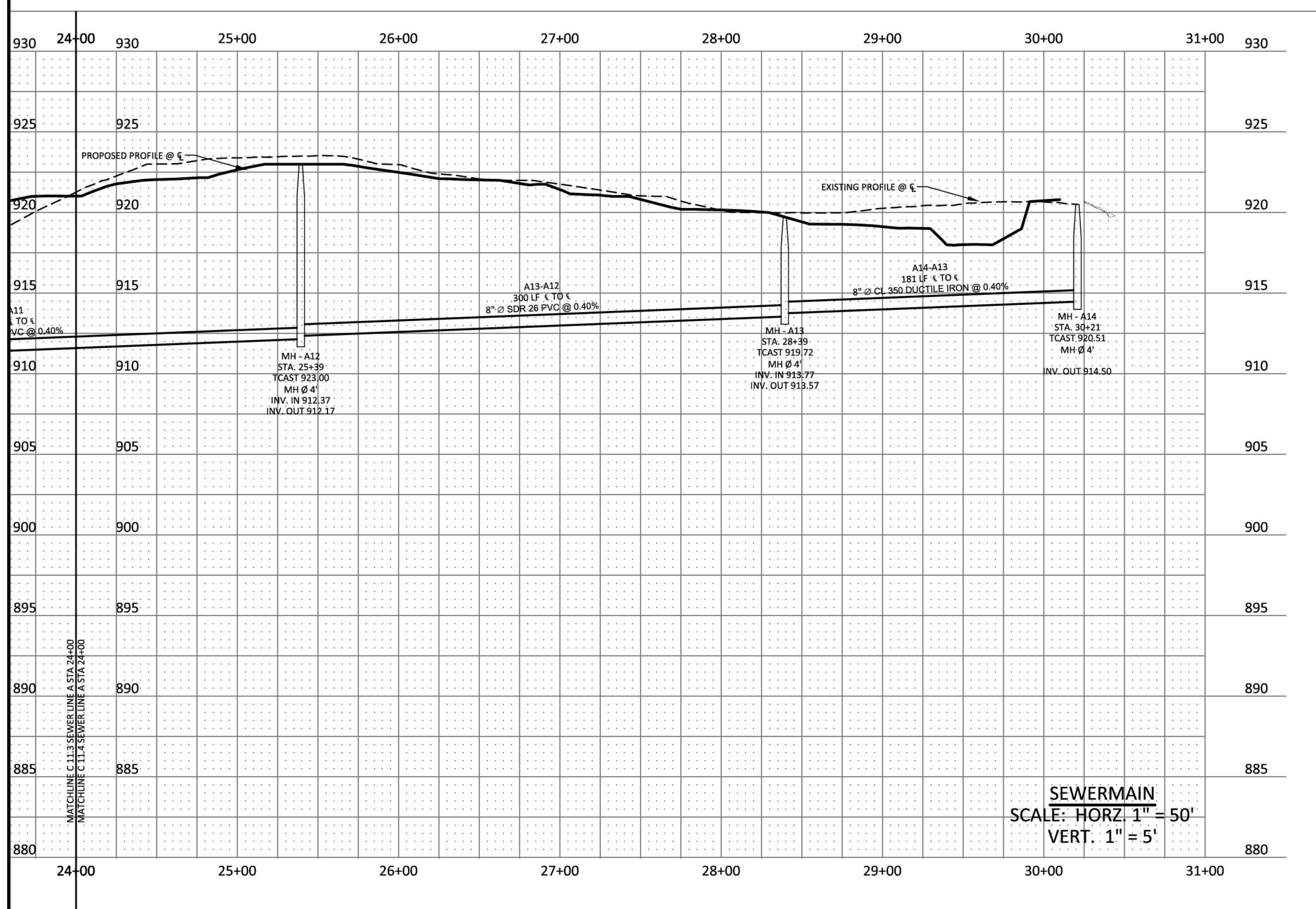


- LEGEND**
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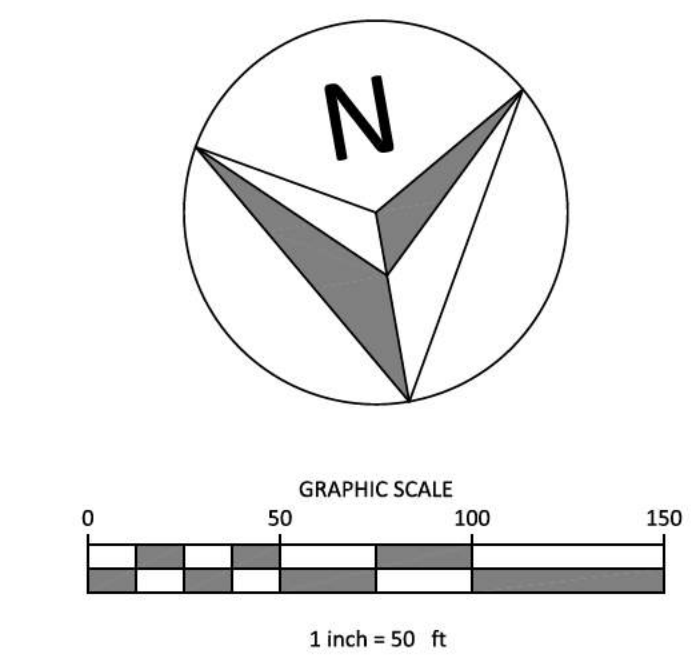
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

SEWER PROFILE



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SHEET NO.
C 11.4
 SHEET 39 OF 47
 JOB# 21.112G 23 MARCH 2022



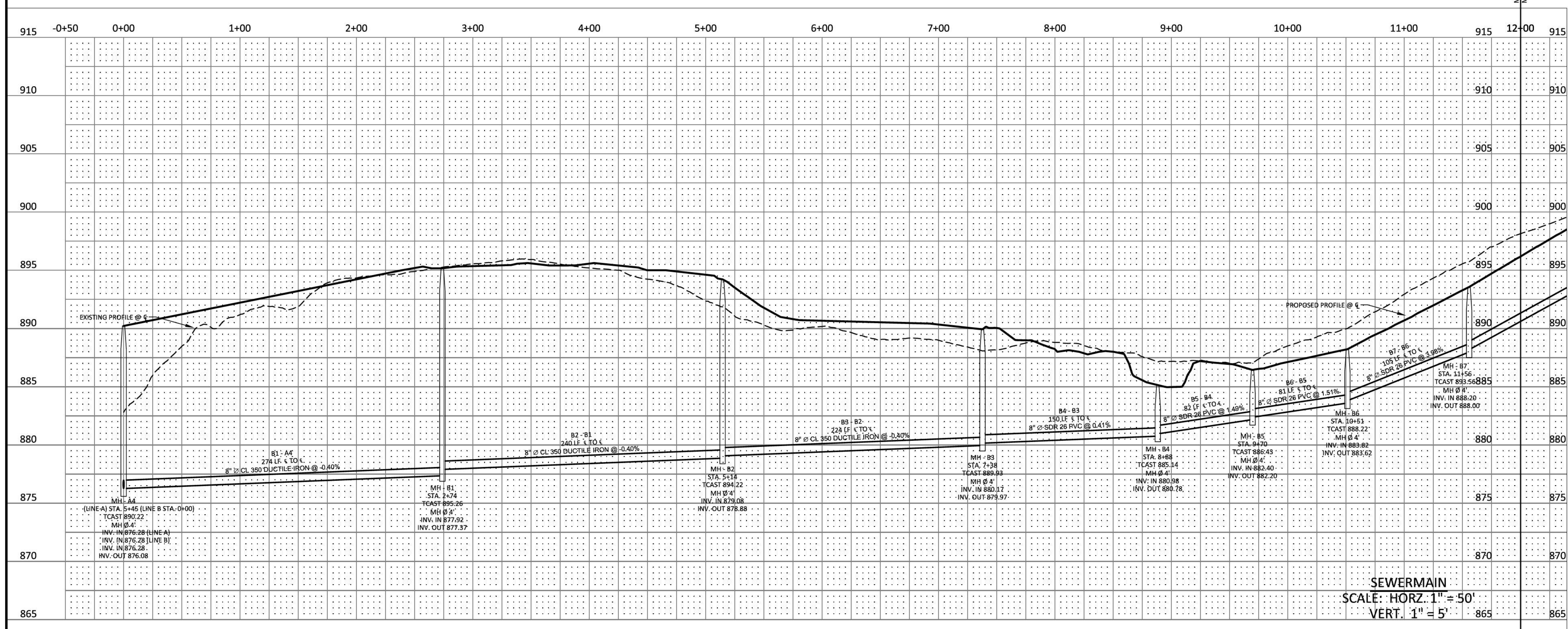
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 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

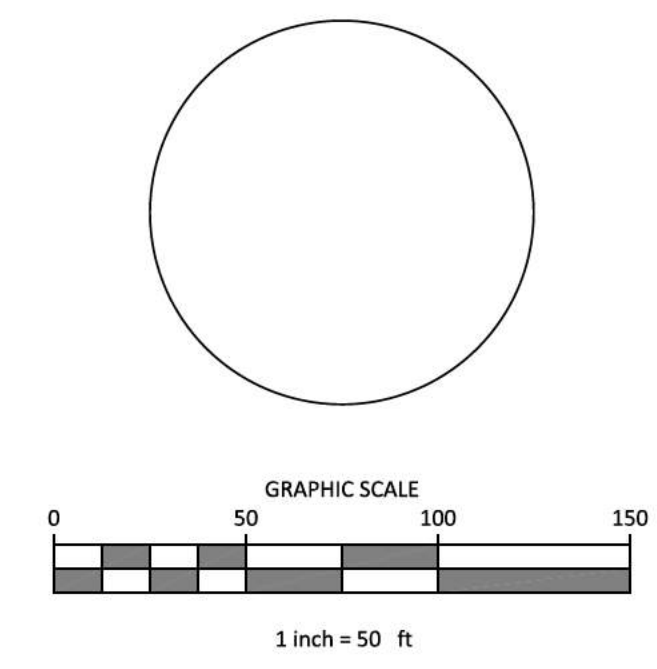
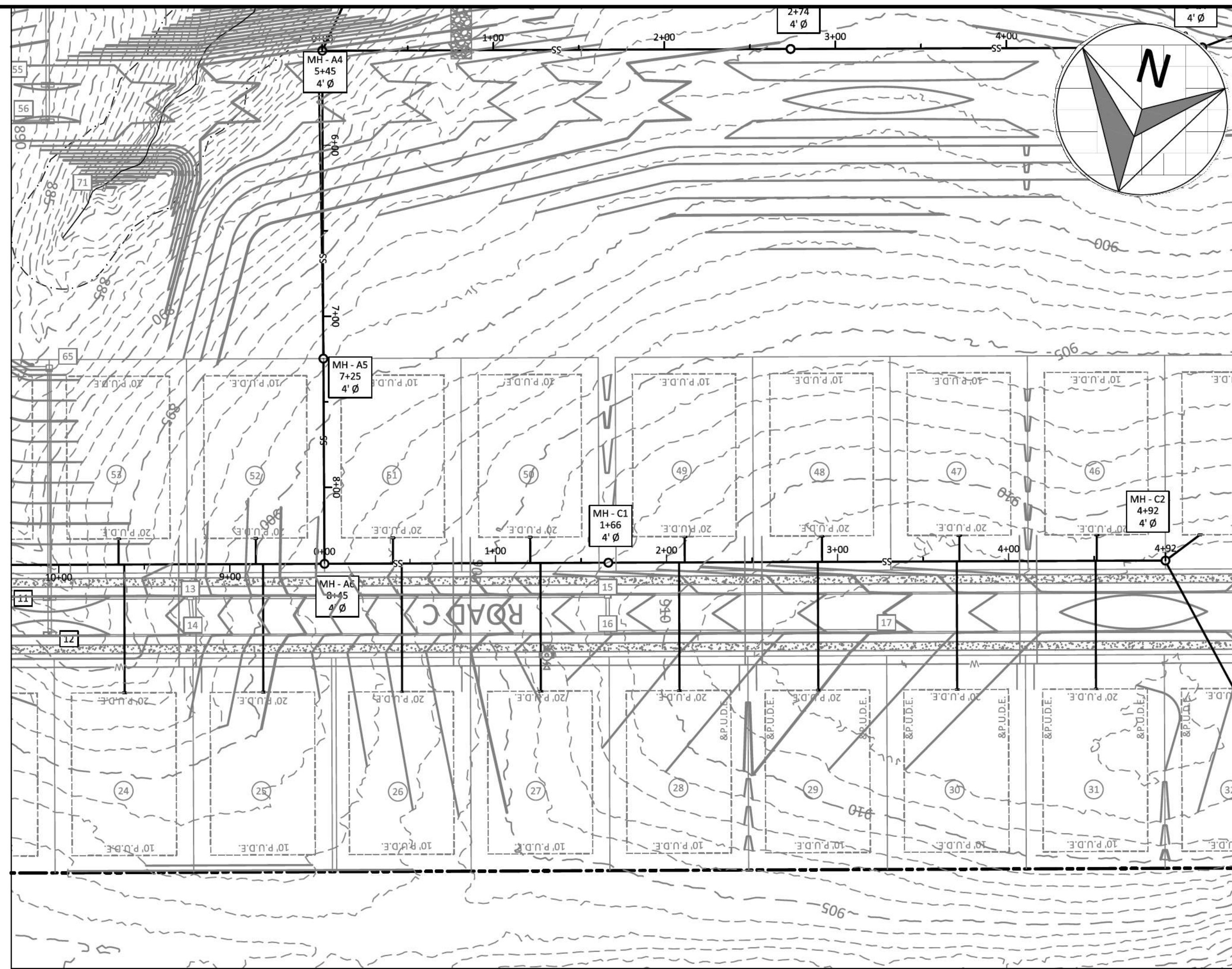
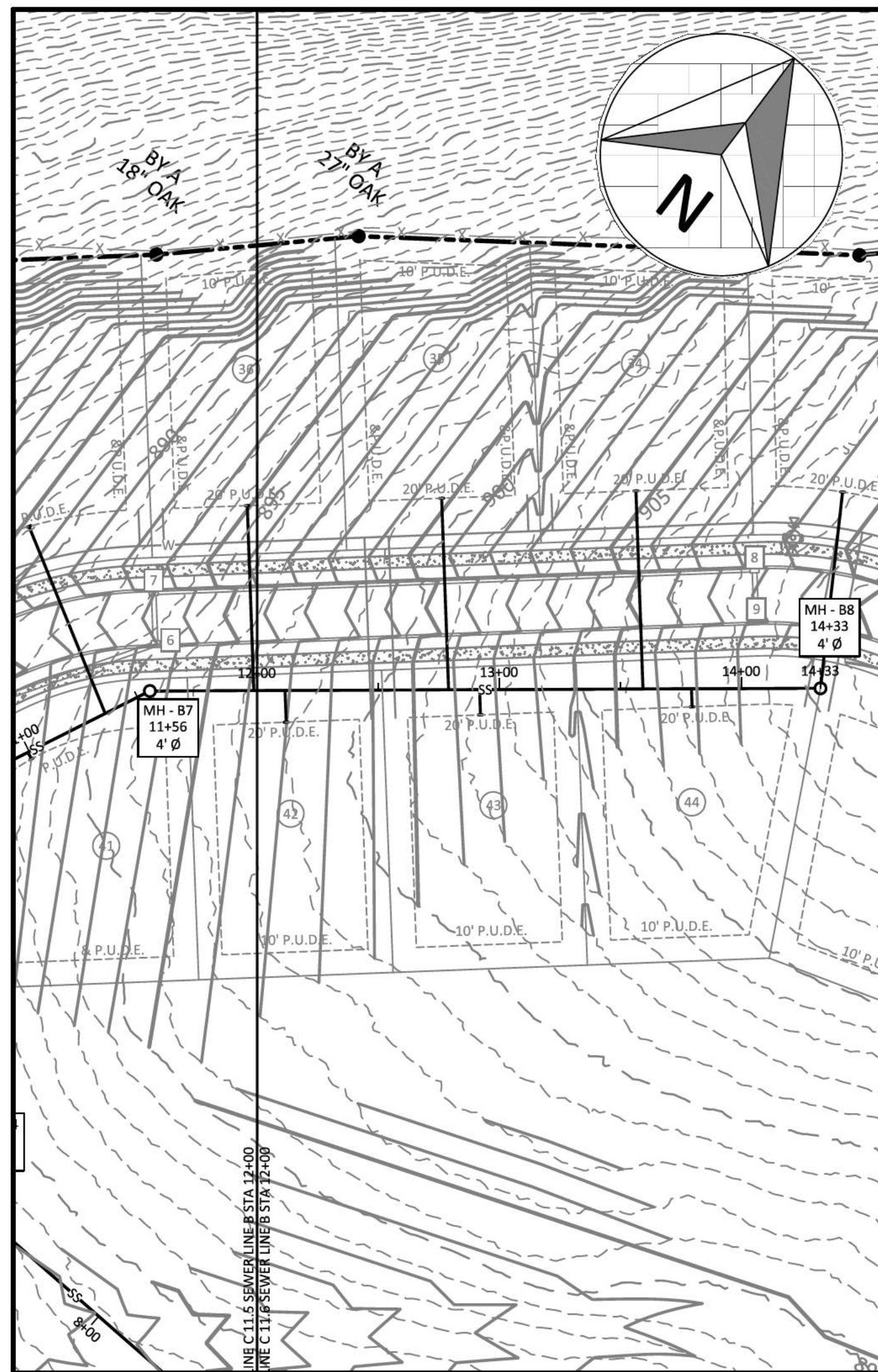
SEWER PROFILE



SEWERMAIN
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 VERT. 1" = 5'

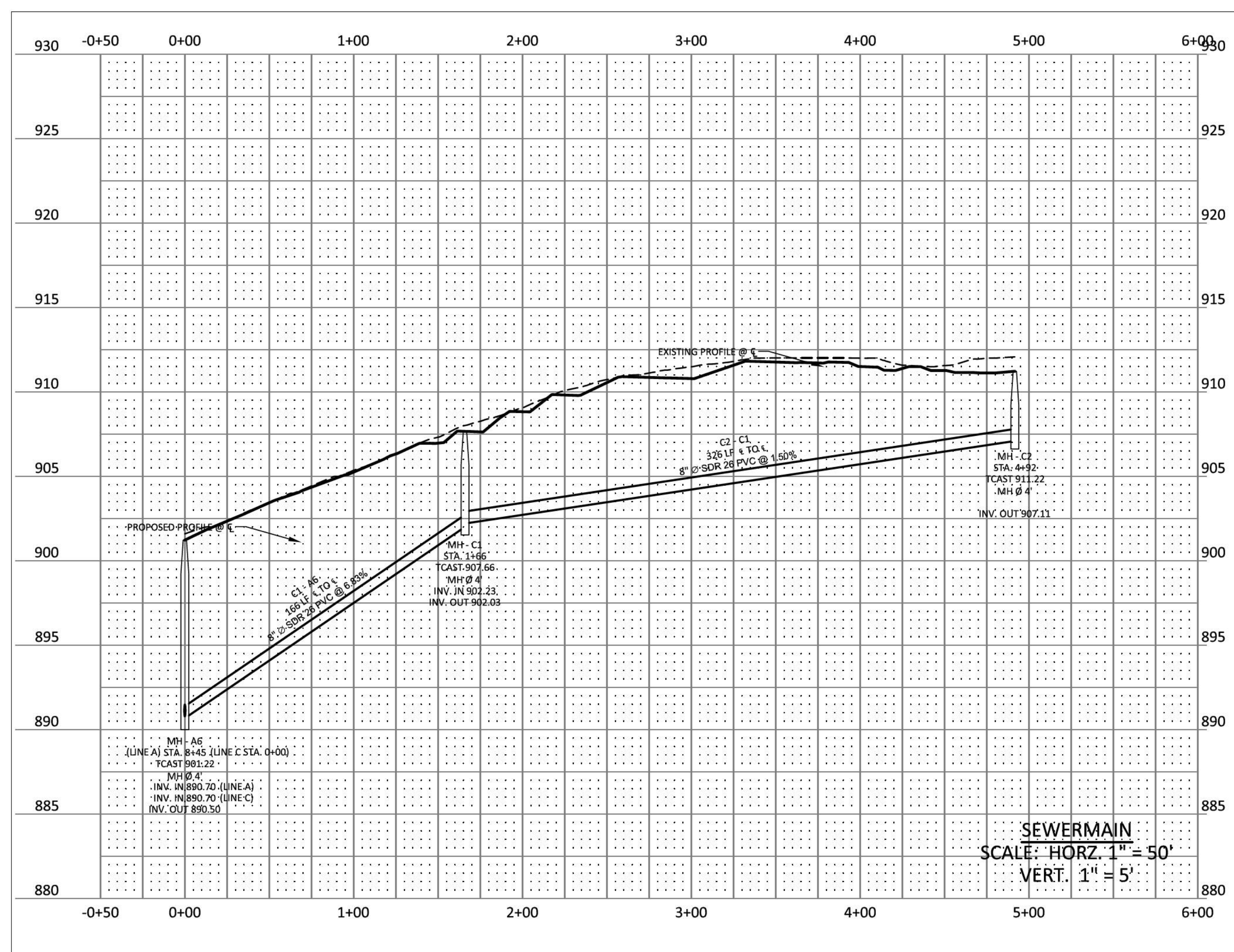
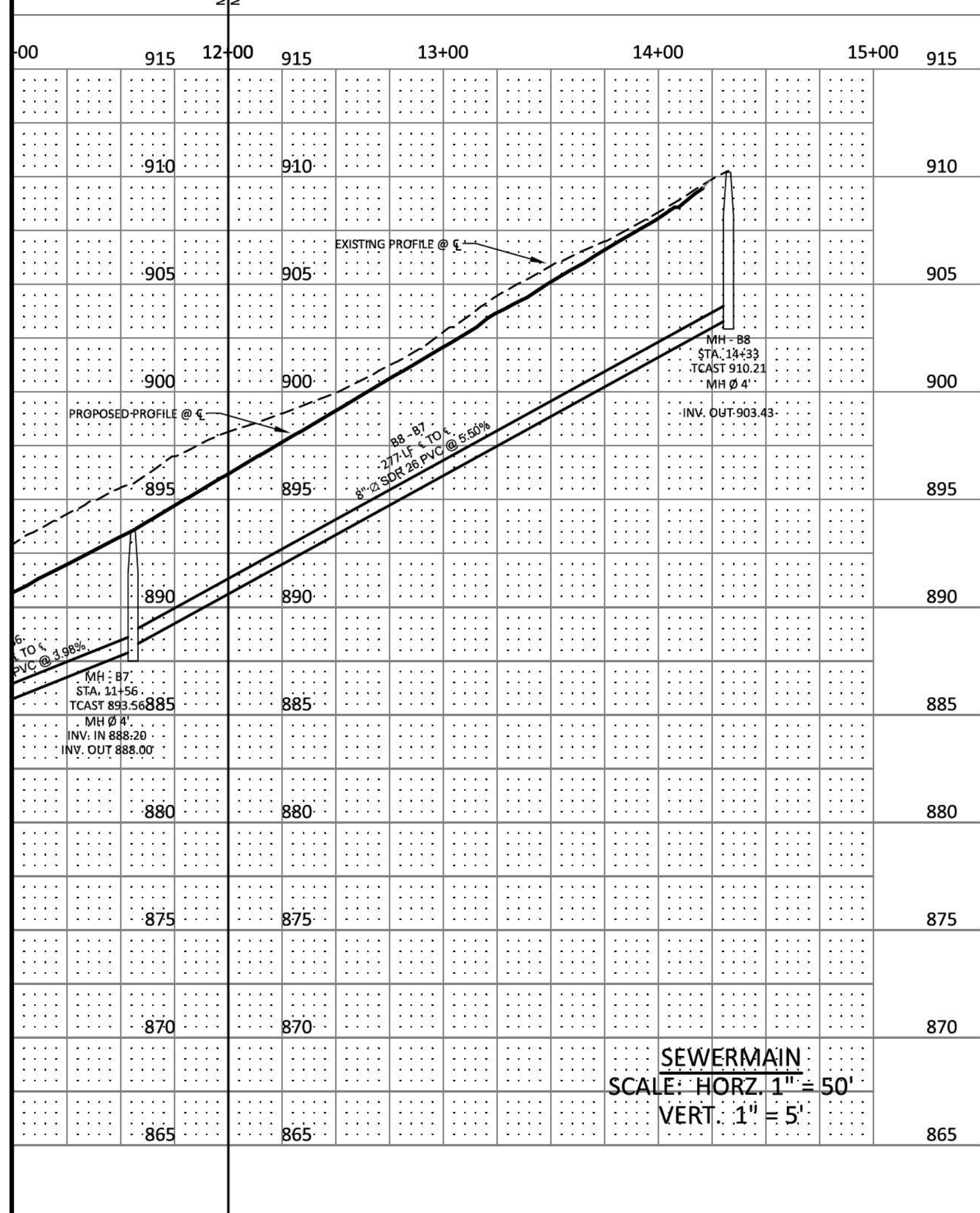
NO.	DATE	REVISION	PER CITY COMMENTS
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SHEET NO.
C 11.5



- LEGEND**
- CONCRETE MONUMENT (OLD)
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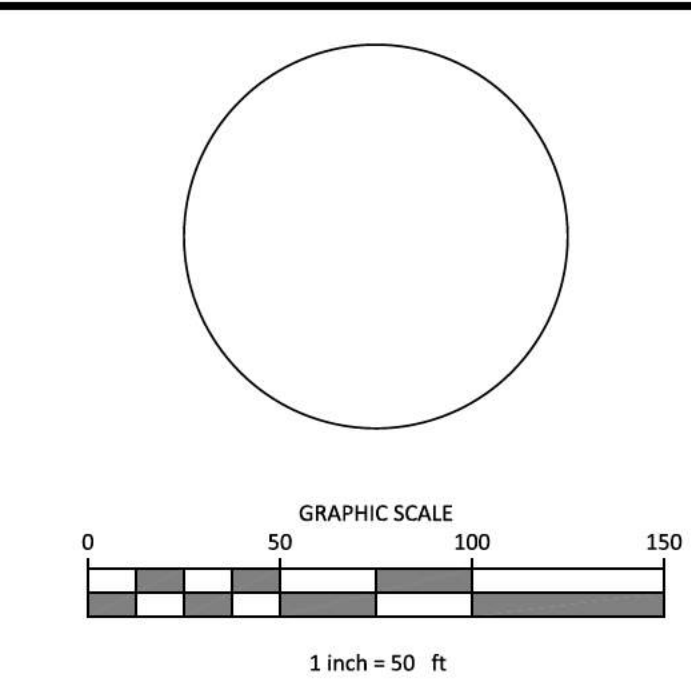
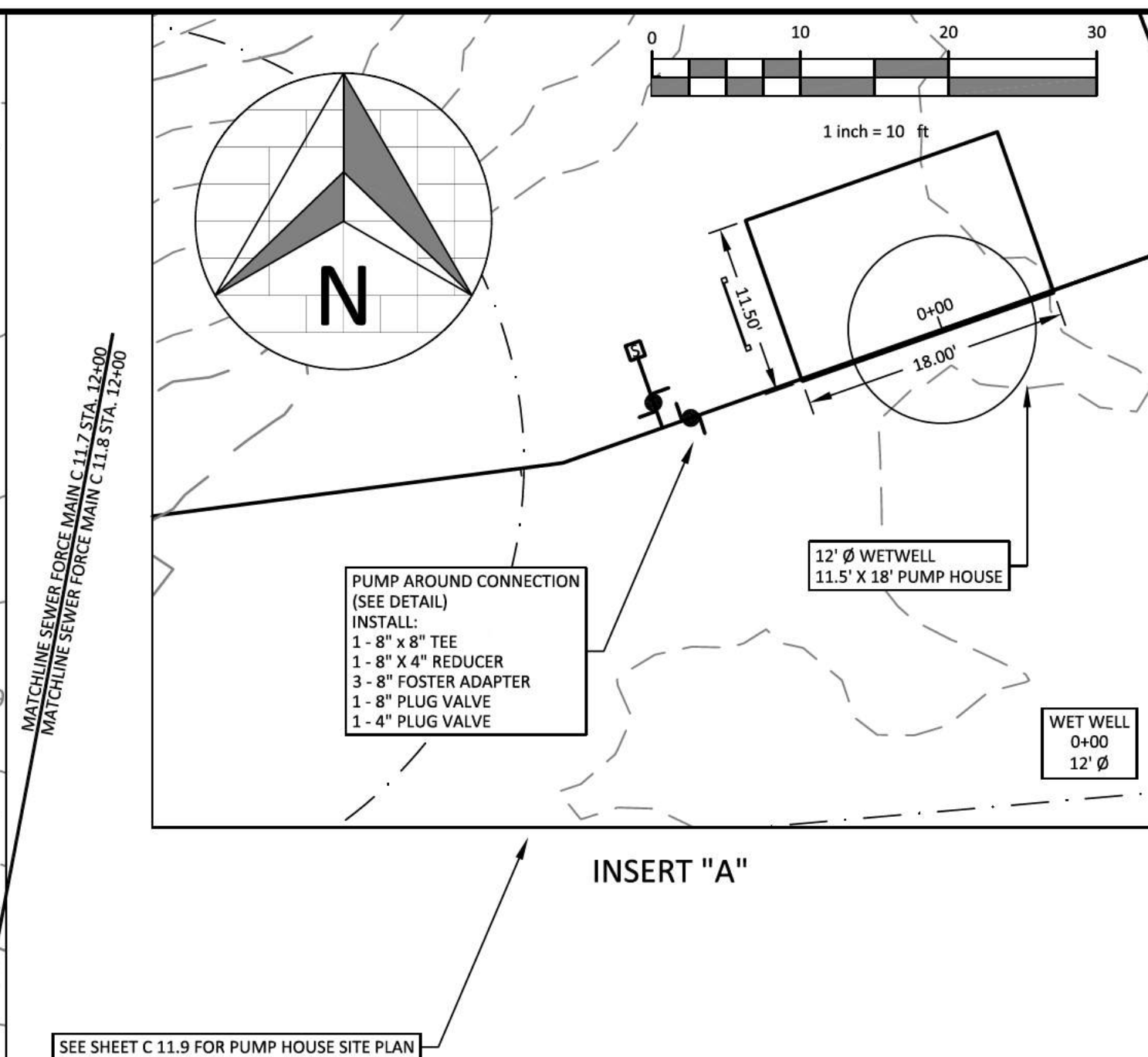


PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

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SHEET NO. C 11.6
 SHEET 41 OF 47
 JOB# 21.112G 23 MARCH 2022

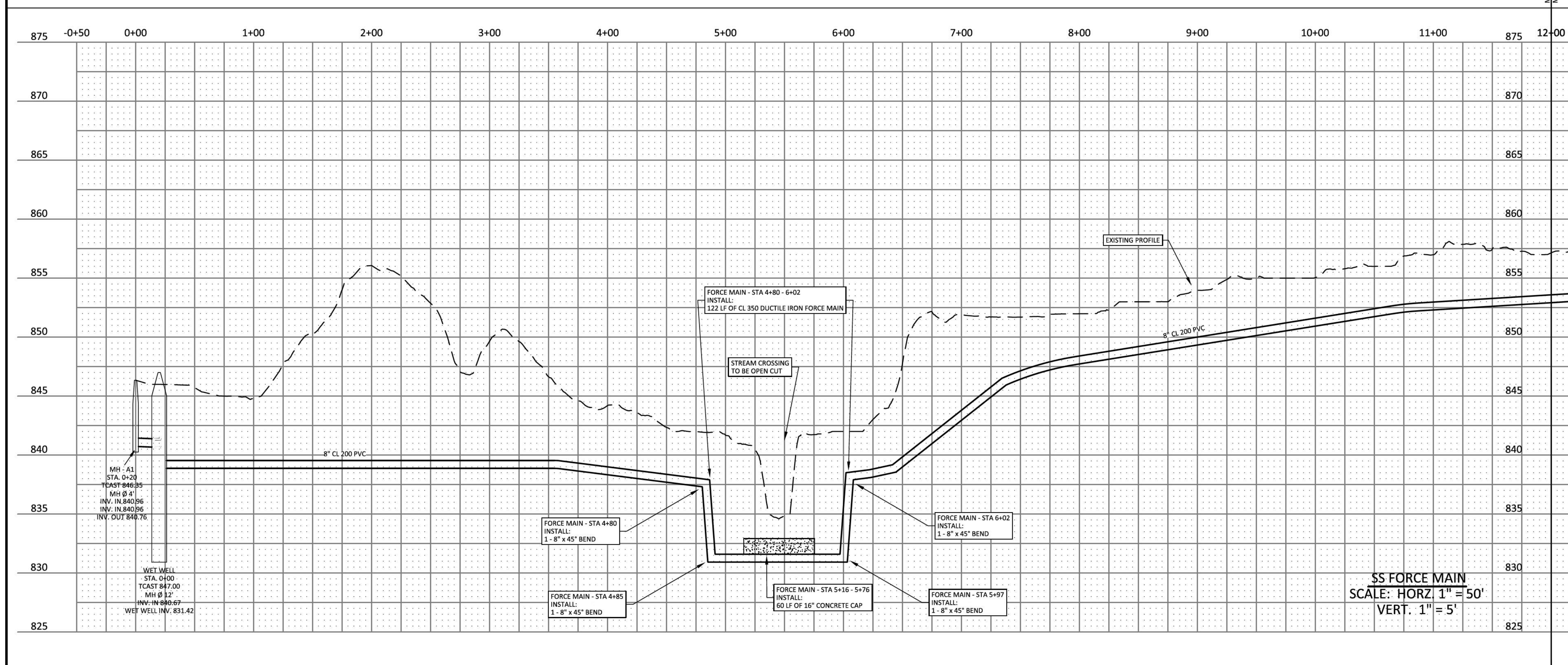




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JOHN ANTHONY LEATH
REGISTERED ENGINEER
AGRICULTURE
COMMERCIAL
NO. 11160
STATE OF TENNESSEE
01-08-23



PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

SANITARY SEWER FORCE MAIN PROFILE

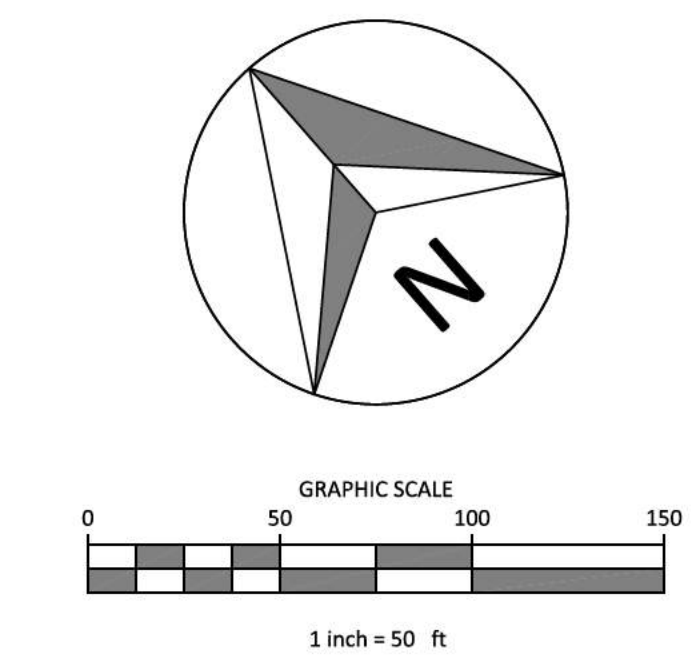
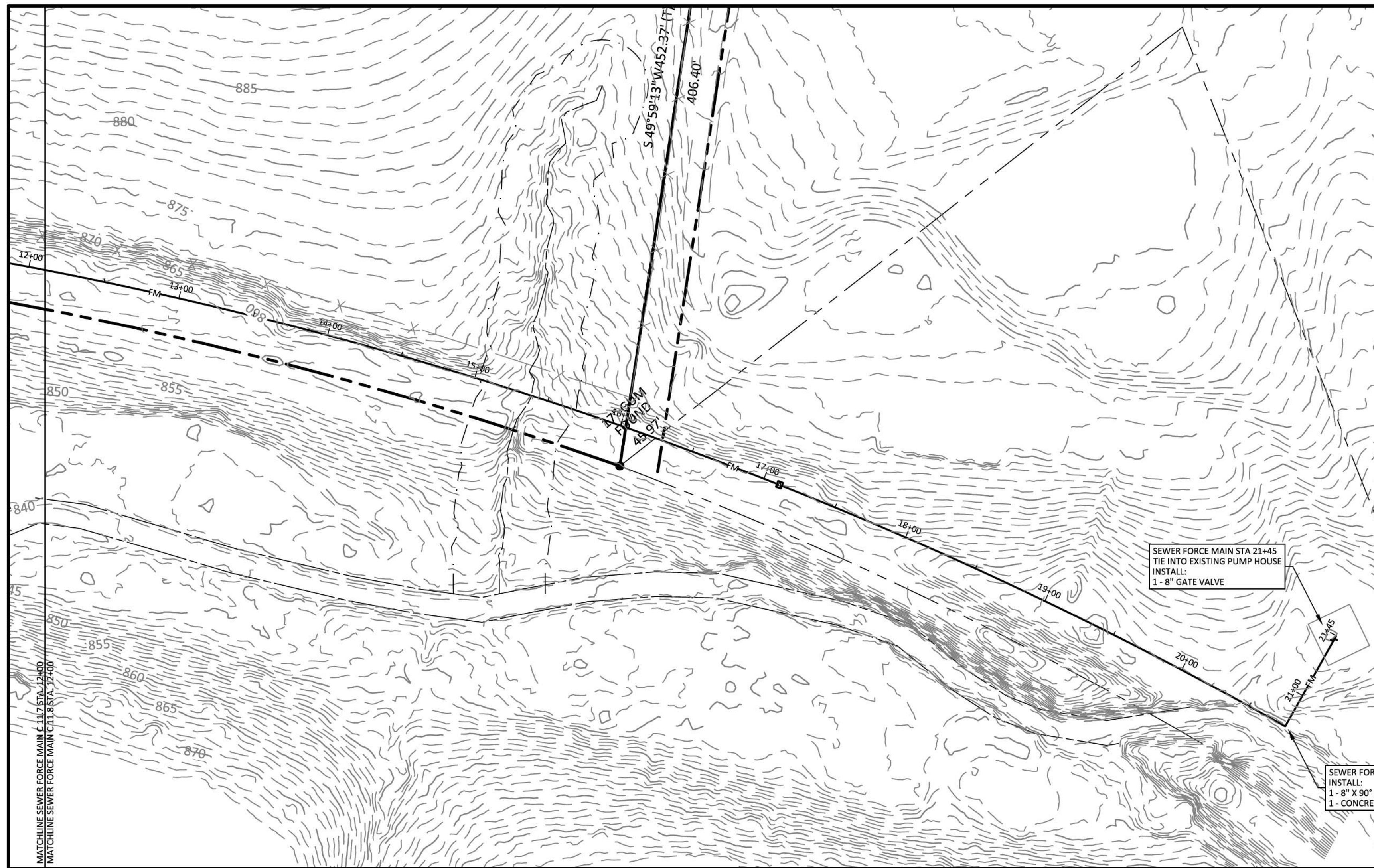
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SHEET NO.
C 11.7

SHEET 42 OF 47

JOB# 21.112G 23 MARCH 2022





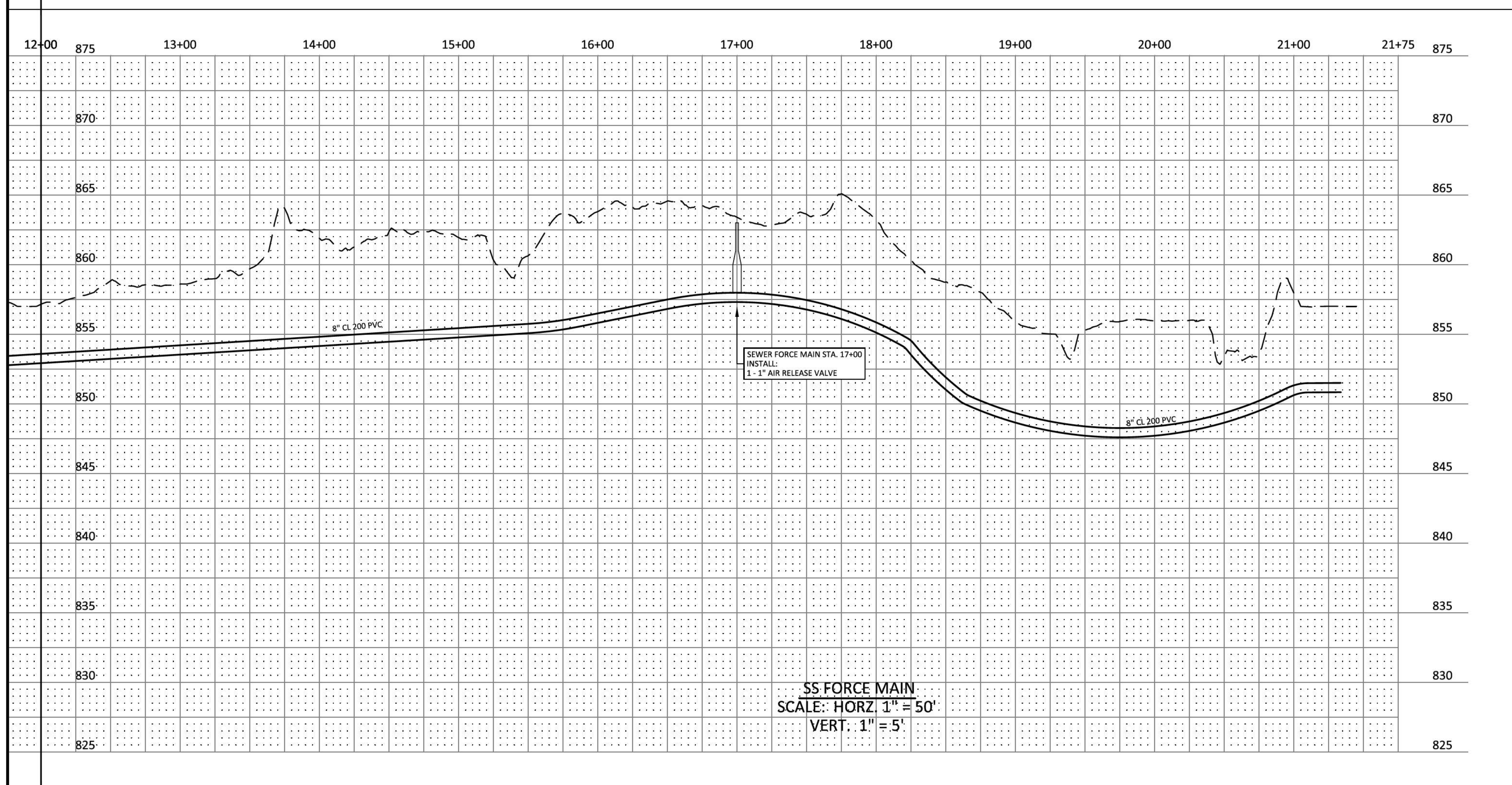
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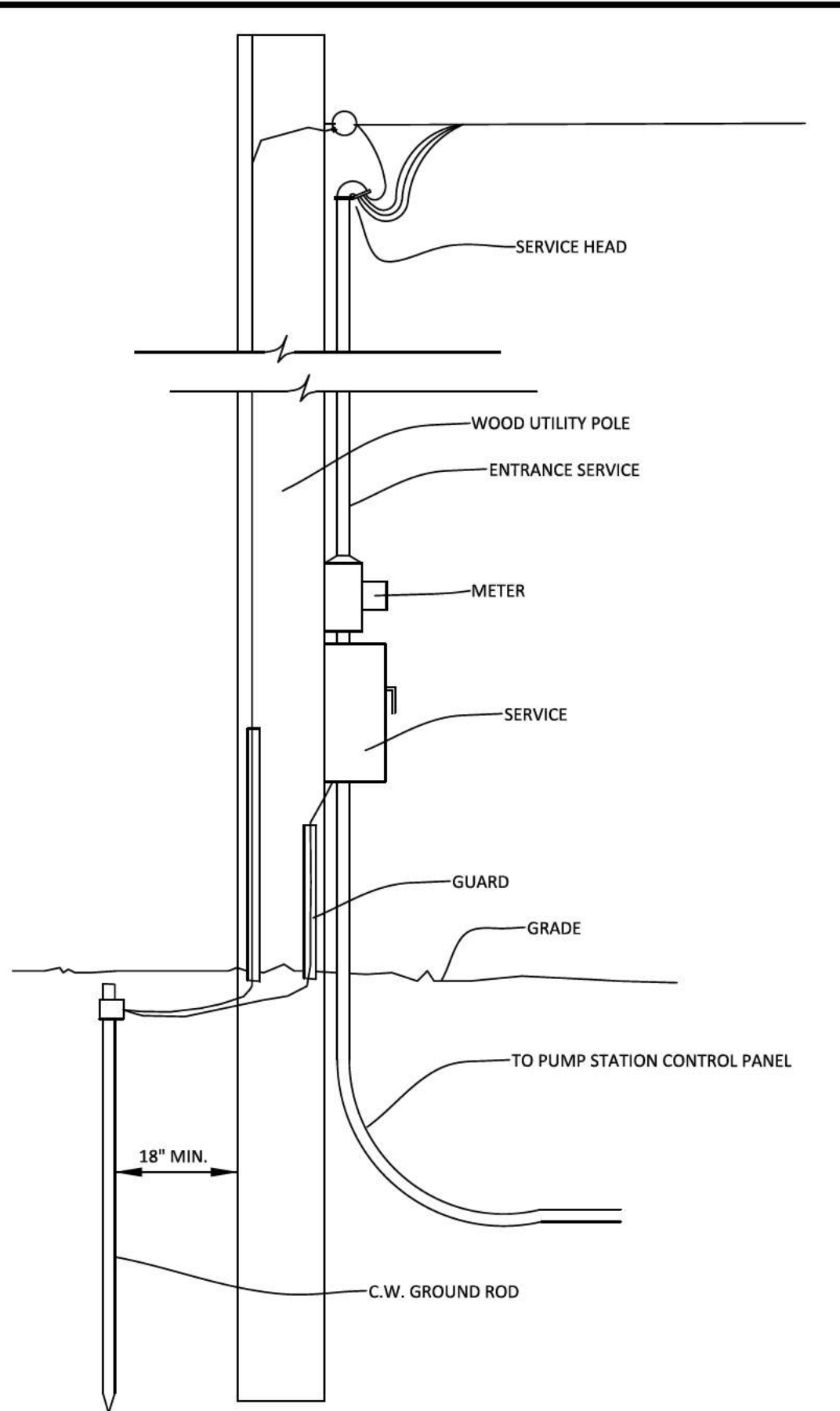


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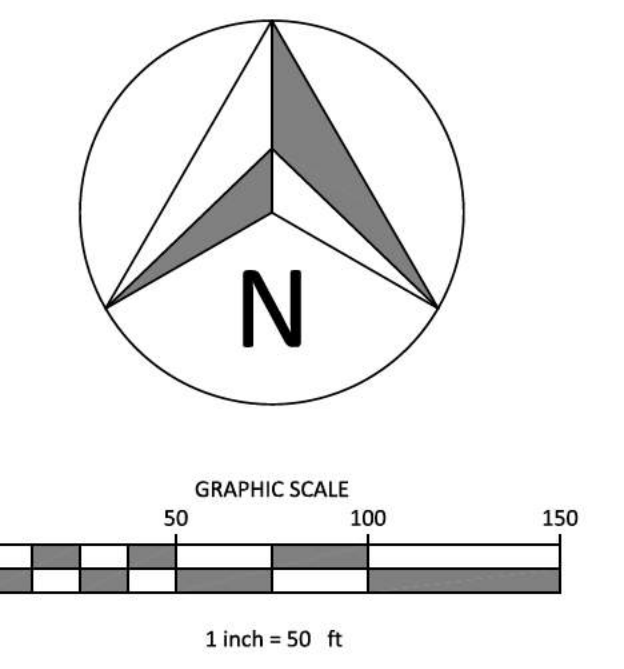
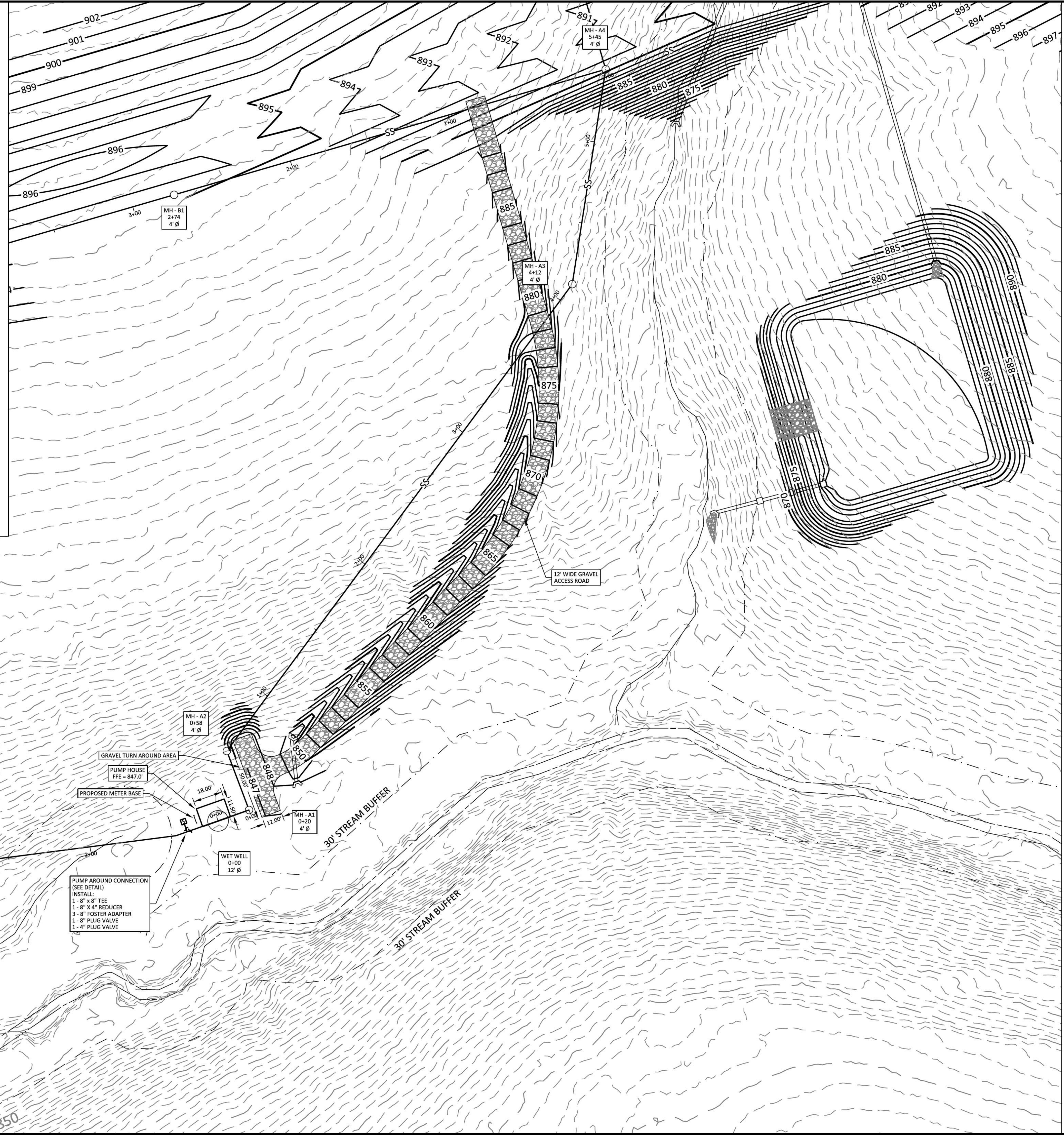
SHEET NO.
C 11.8
 SHEET 43 OF 47

JOB# 21.112G 23 MARCH 2022



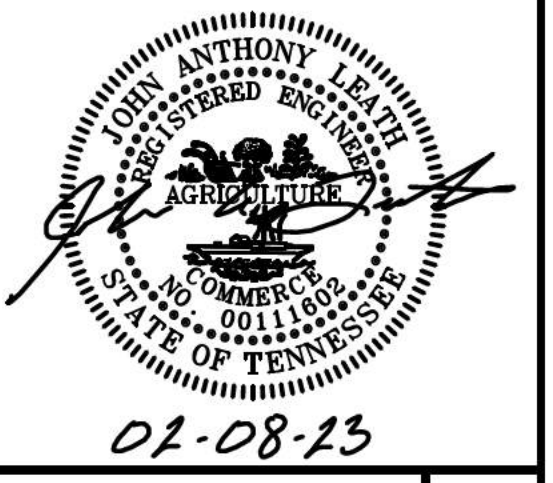


POWER SERVICE DETAIL
 TYPICAL SERVICE - LICENSED ELECTRICAL CONTRACTOR
 TO COMPLY WITH T.C.E.M.C. (LATEST ED.)
 NOT TO SCALE



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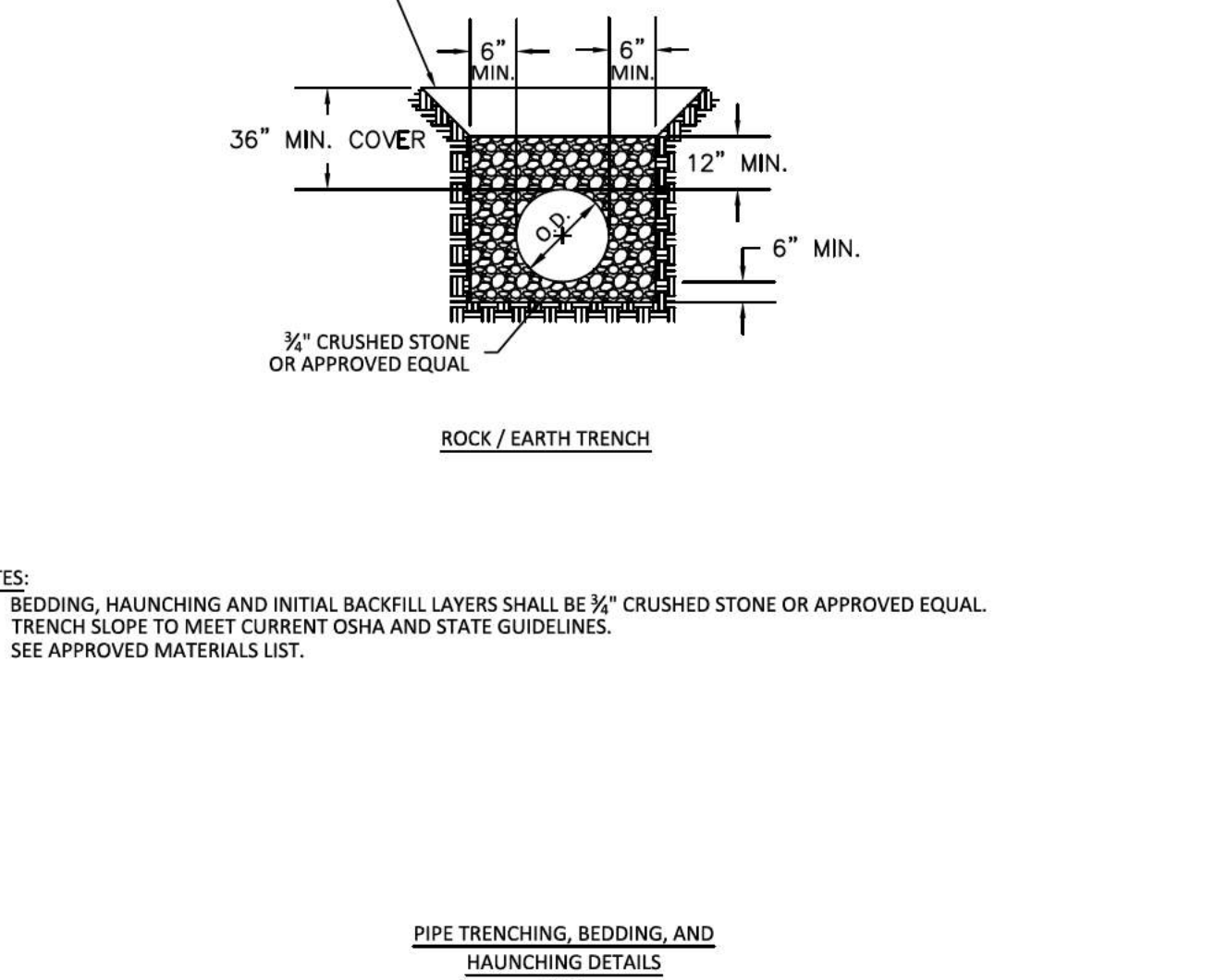
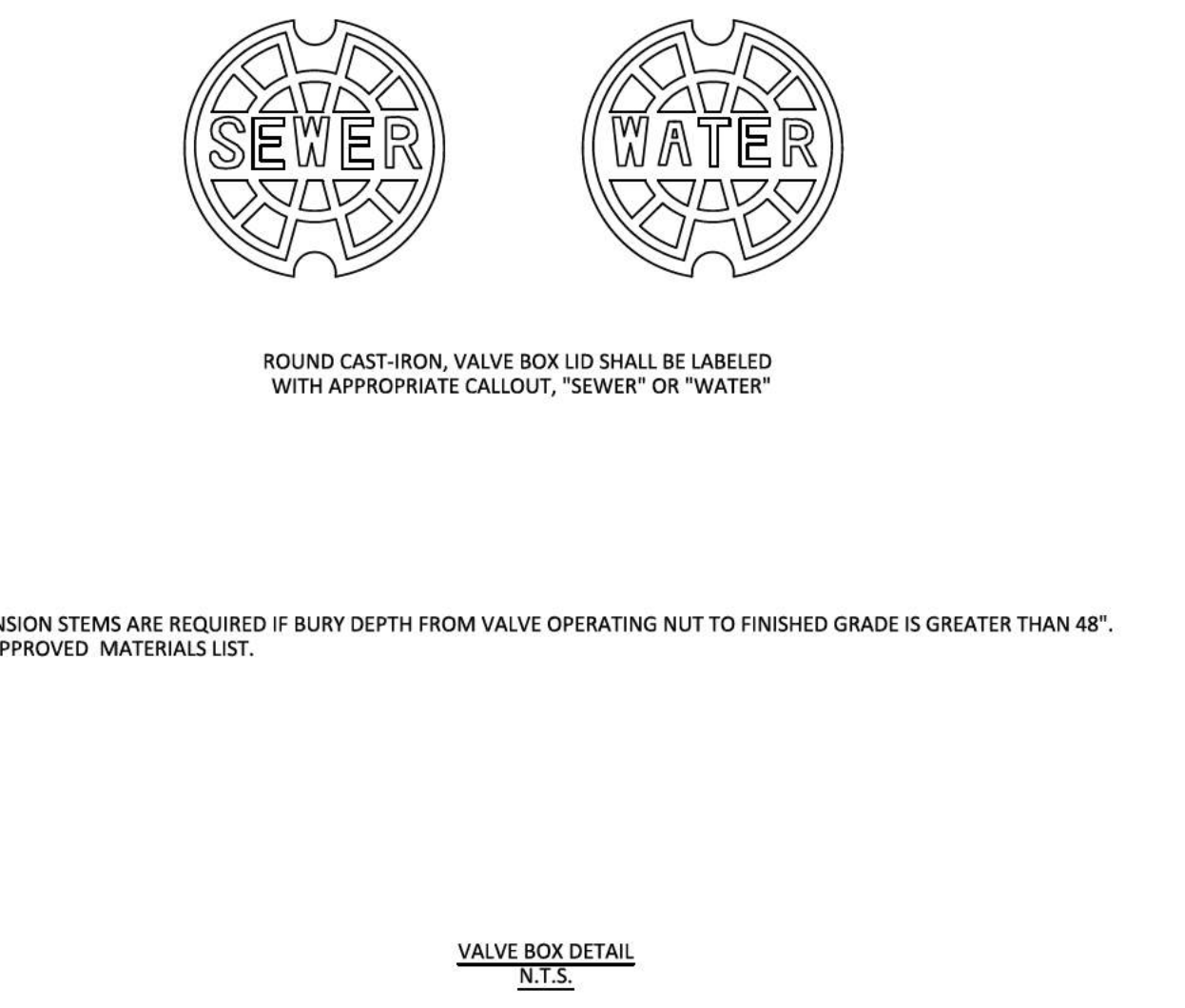
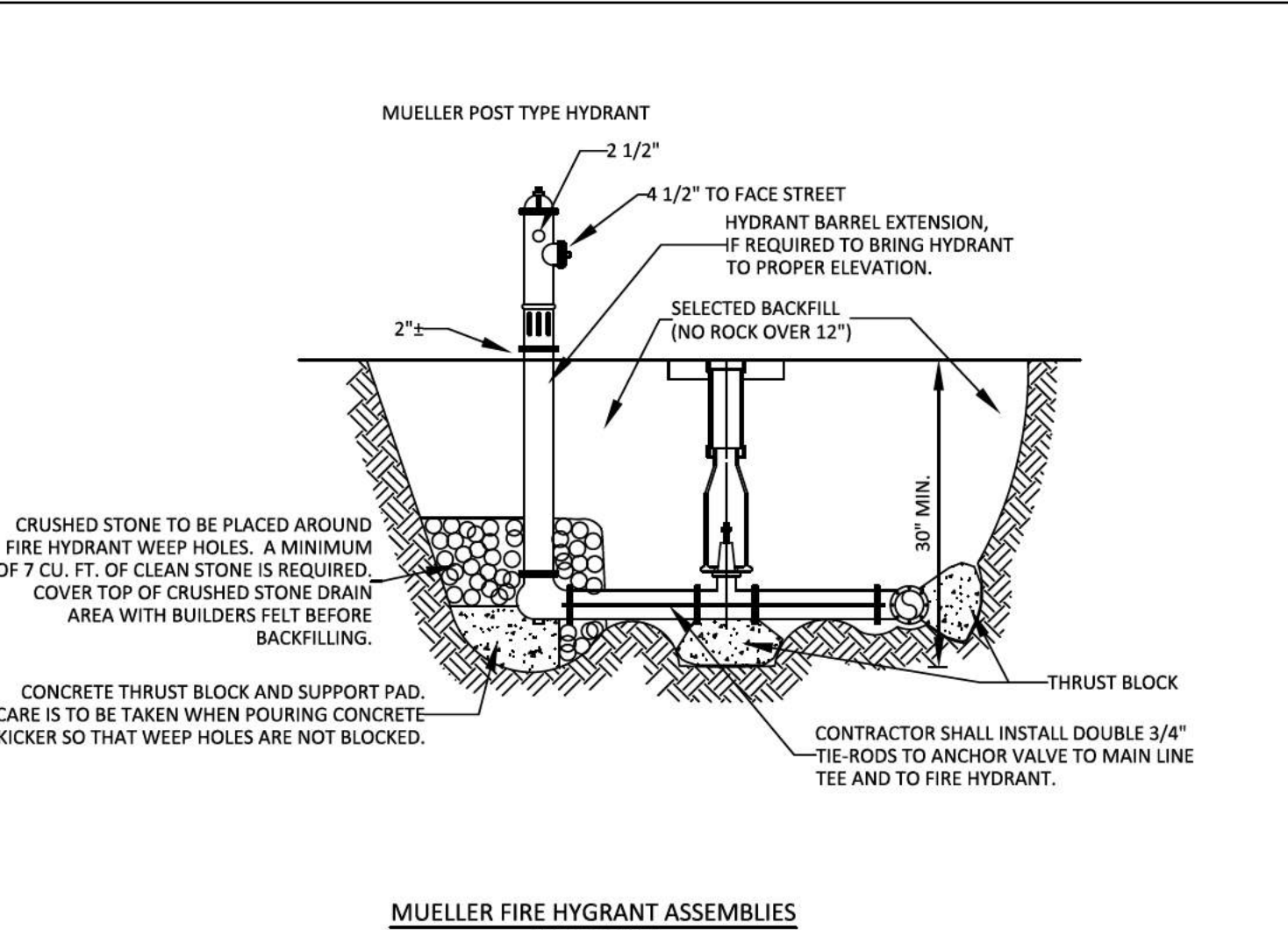
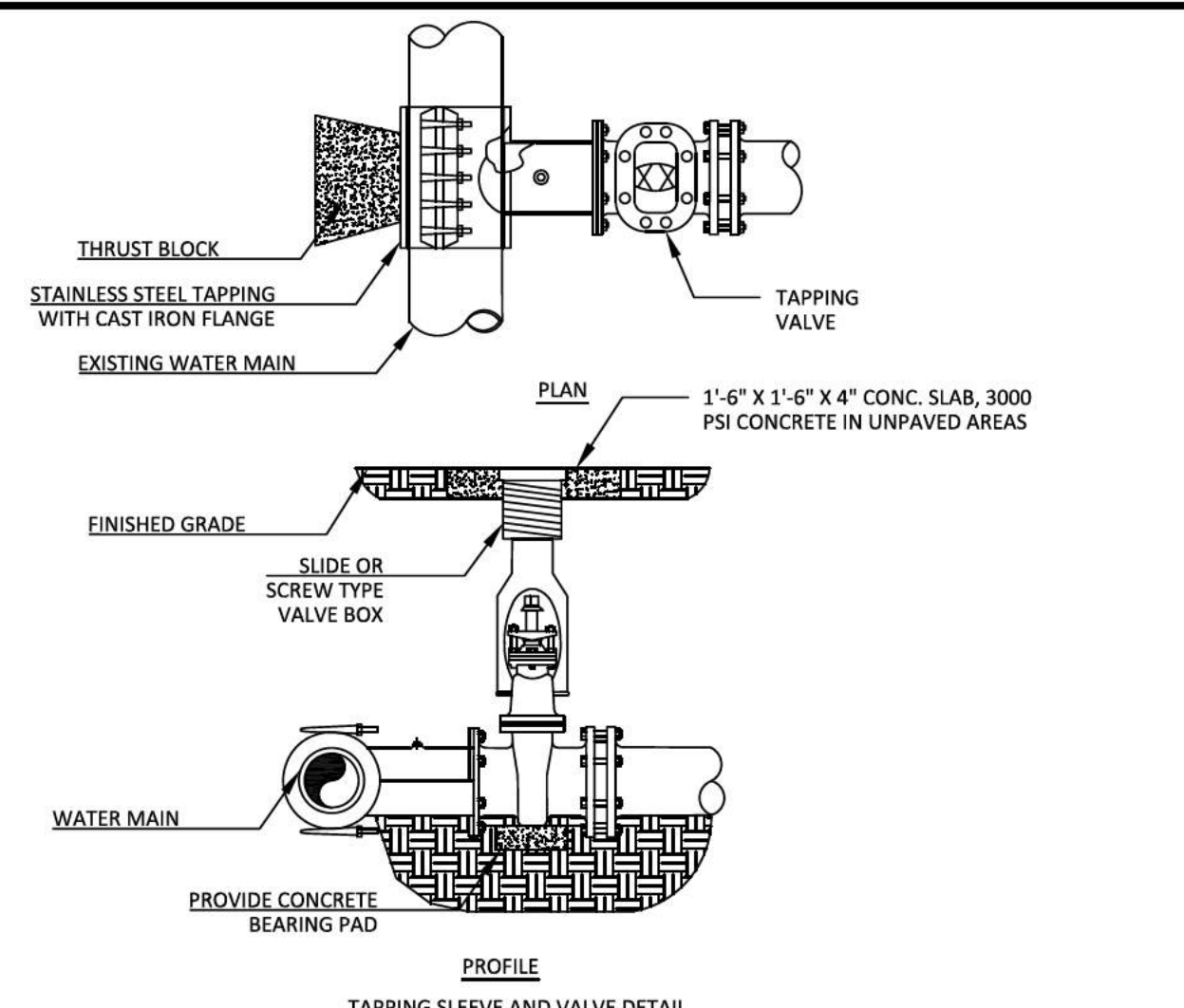
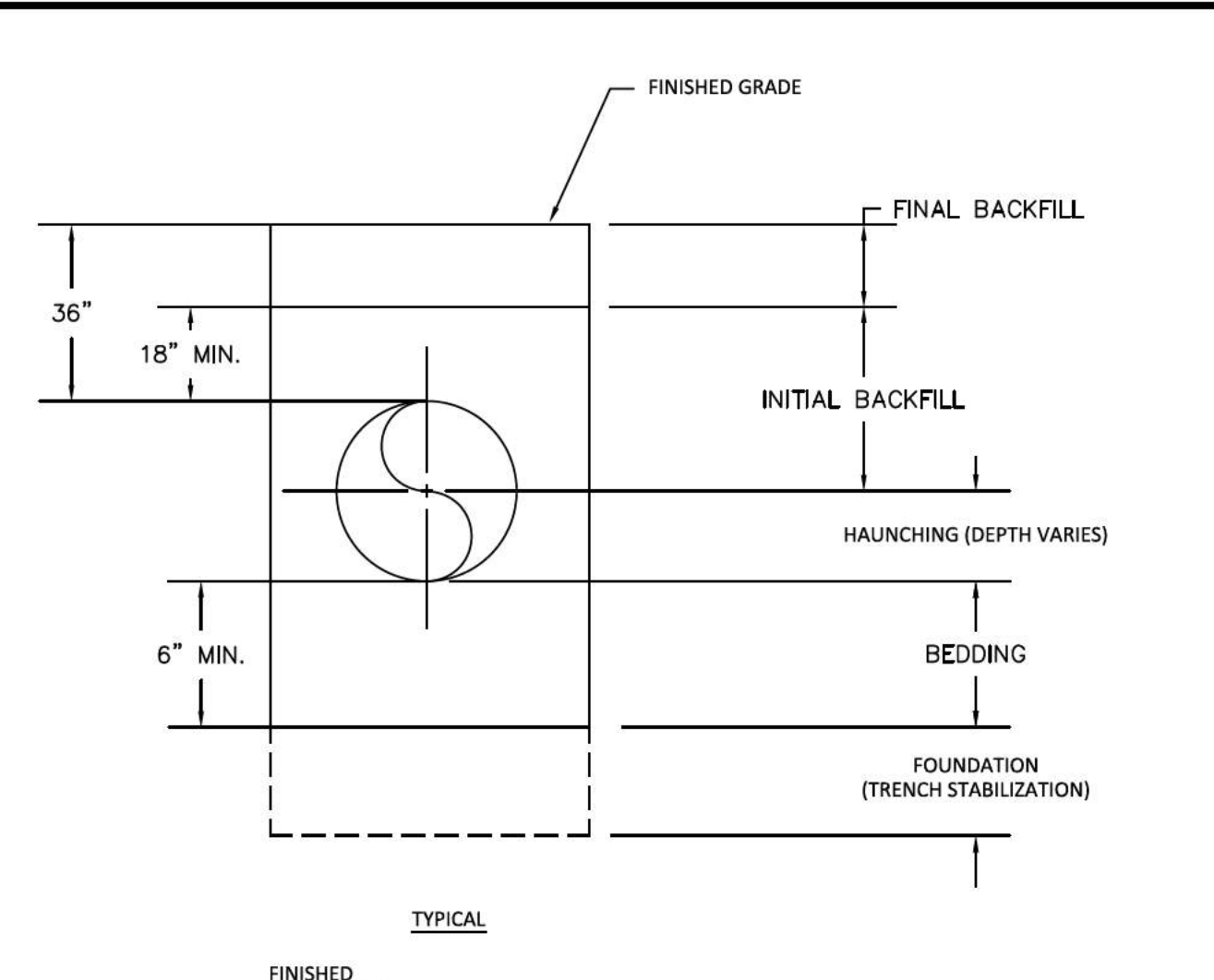
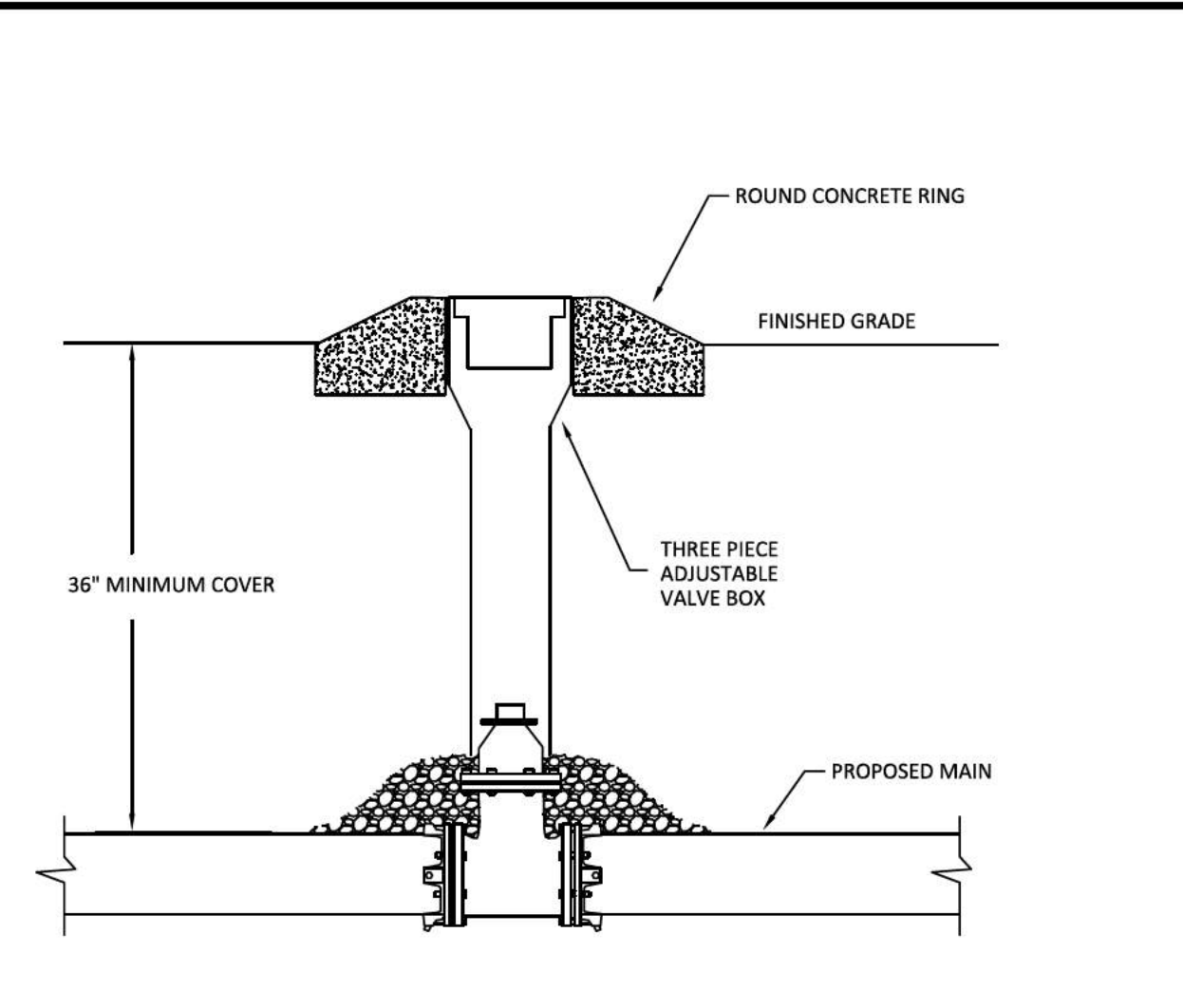
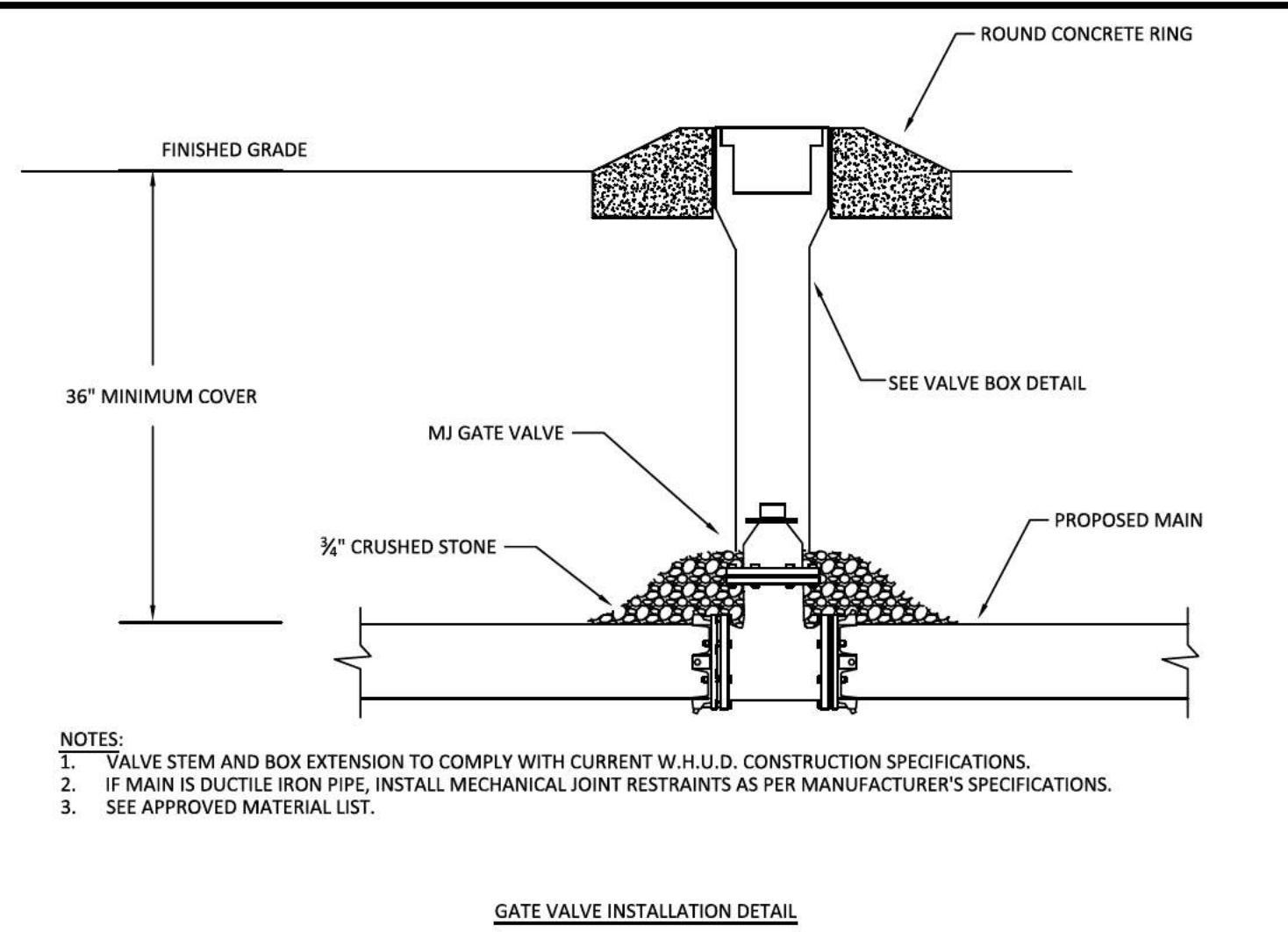
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

SANITARY SEWER FORCE MAIN PROFILE

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SHEET NO. C 11.9
 SHEET 44 OF 47
 JOB# 21.112G 23 MARCH 2022



SCHEDULE OF MINIMUM BEARING AREA REQUIRED BASED ON 200 PSI INTERNAL PRESSURE AND 4000 PSF SOIL BEARING CAPACITY*

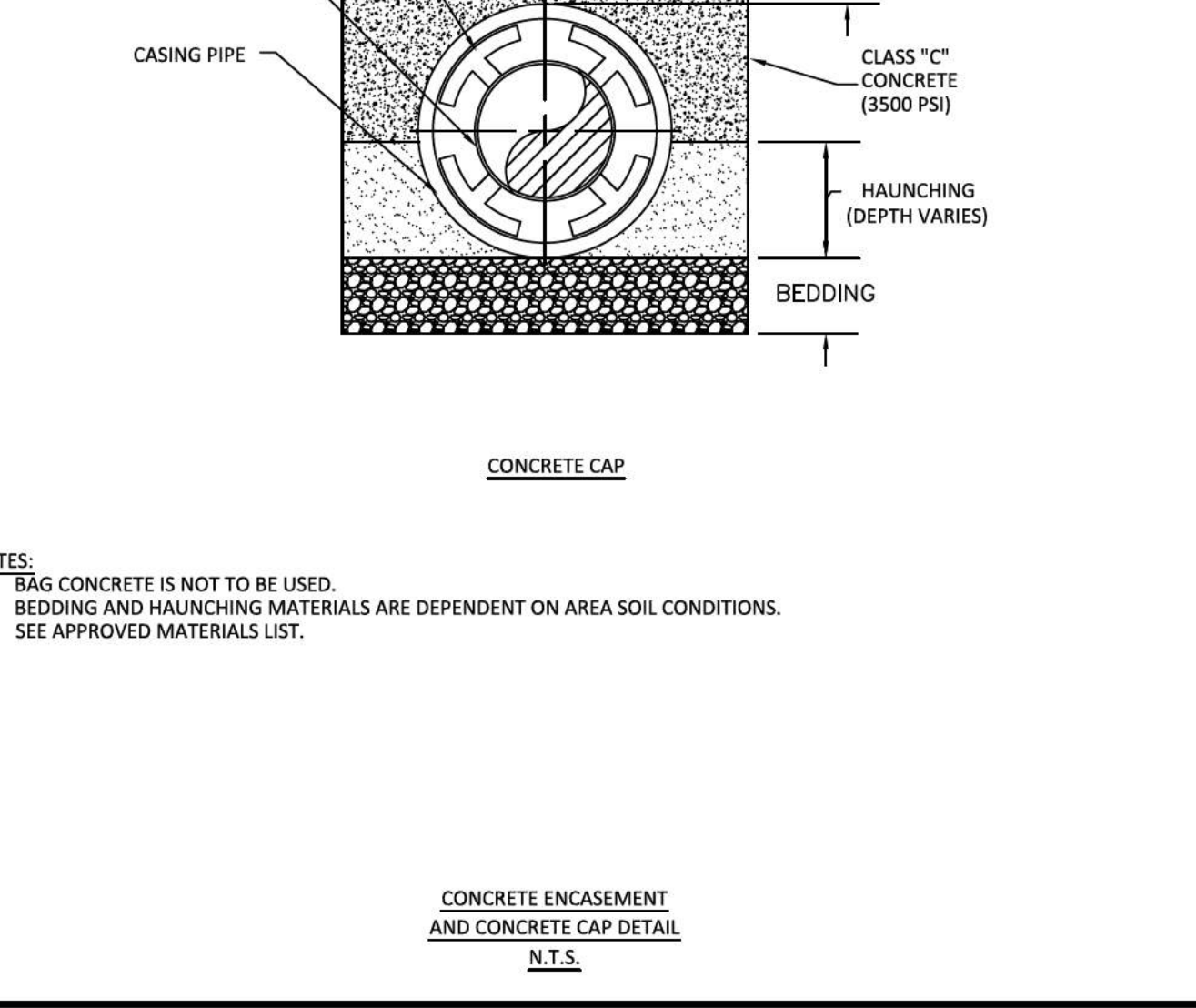
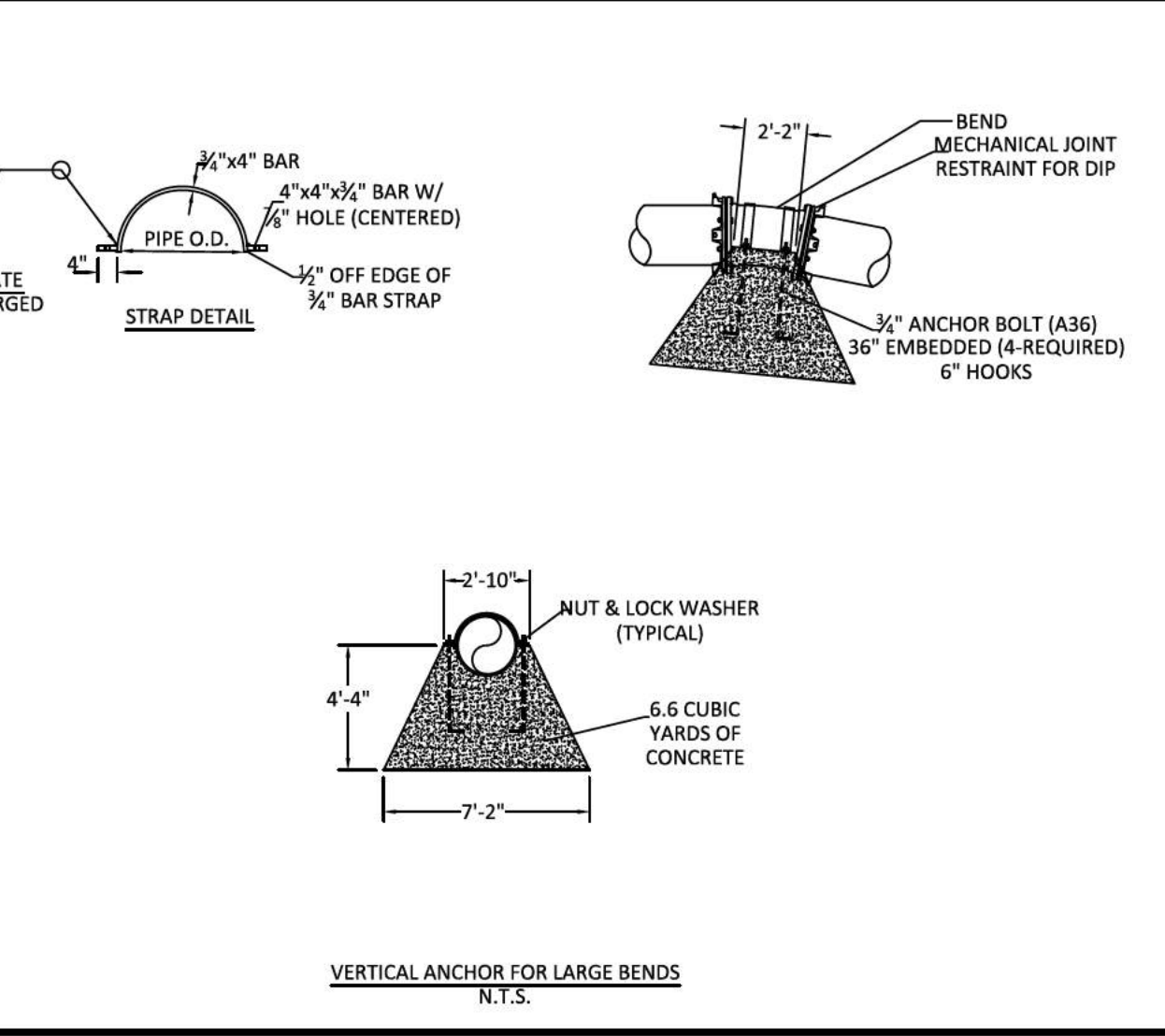
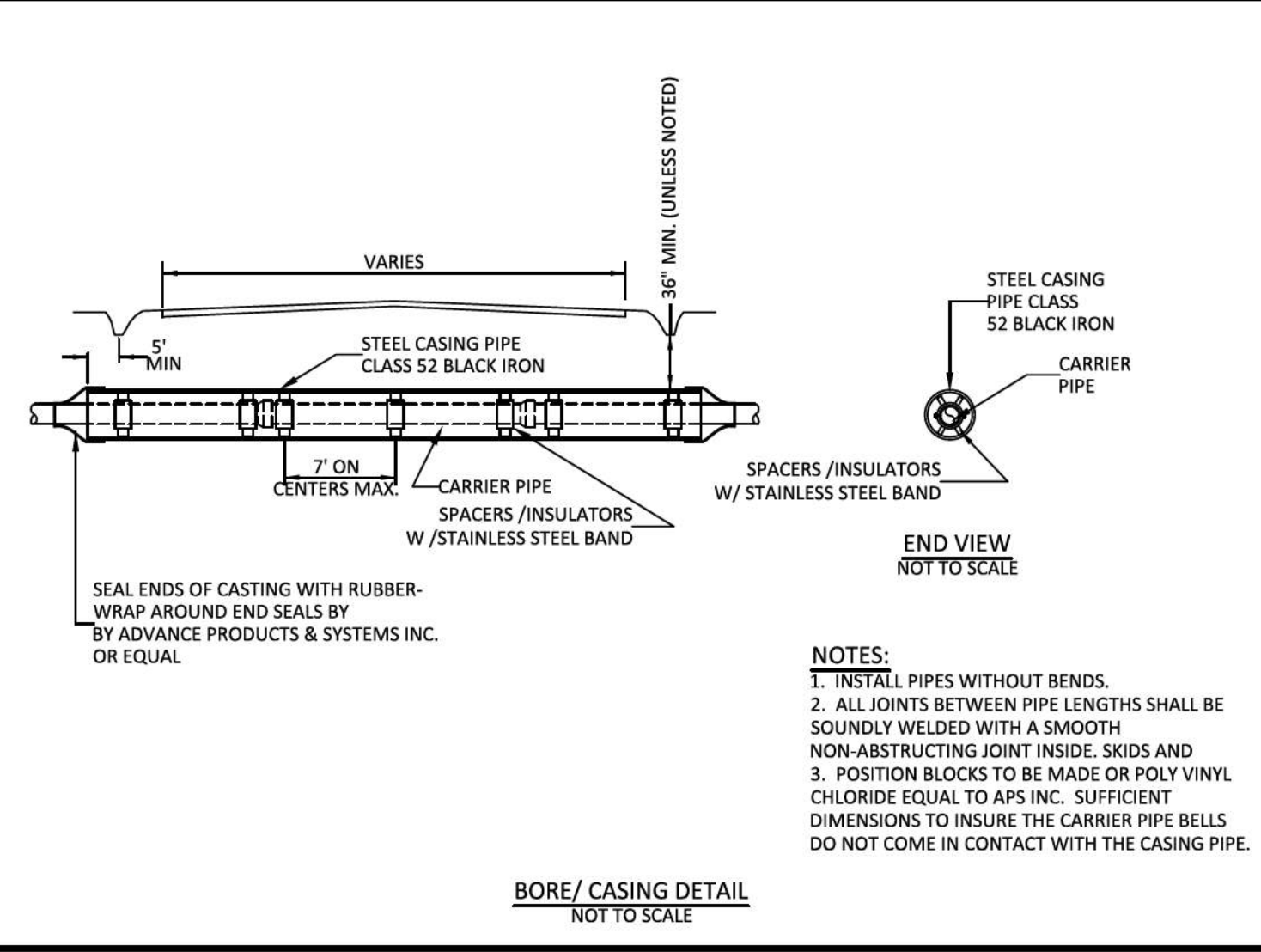
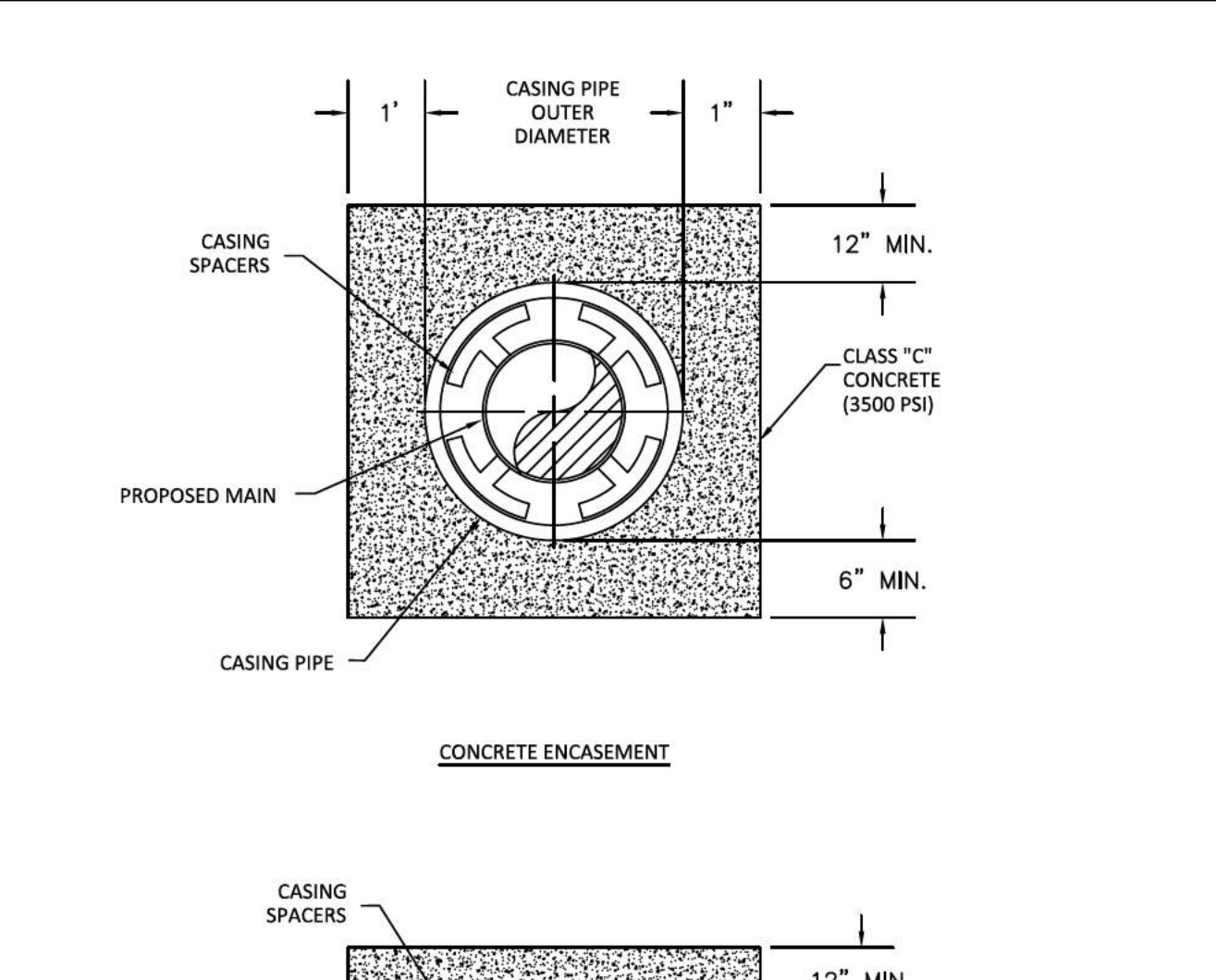
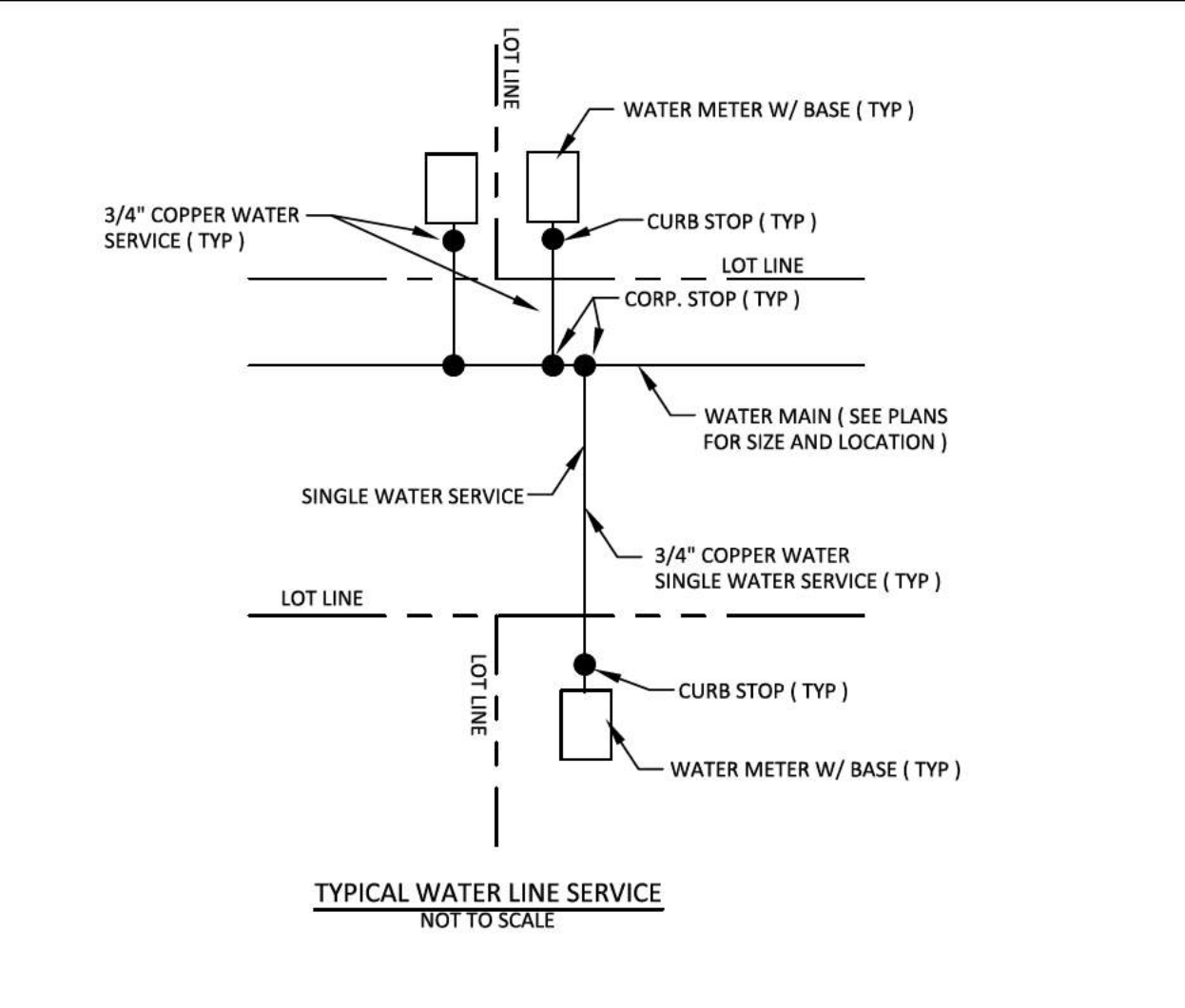
PIPE SIZE	TEE OR DEAD END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4"	1.0	1.5	1.0	1.0	1.0
6"	2.5	3.0	2.0	1.0	1.0
8"	4.0	5.5	3.0	1.5	1.0
10"	6.0	8.5	4.5	2.5	1.5
12"	8.5	12.0	6.5	3.0	2.0
16"	15.0	21.5	11.5	6.0	3.0

VALUES ARE TABULATED IN SQUARE FEET

* ENGINEER TO CONFIRM ACTUAL REQUIRED DIMENSIONS BEFORE CONSTRUCTION OF THE THRUST BLOCK.
 BEARING AREA (SQUARE FEET) = A (feet) X B (feet)

NOTES:
 1. CONCRETE TO BE CLASS "C" 2,500 PSI OR STRONGER
 2. DIMENSIONS AS SHOWN ARE APPROXIMATE - SUBJECT TO CHANGE AT DIRECTION OF OR APPROVAL OF ENGINEER.
 3. KEEP CONCRETE CLEAR OF ANY PIPE JOINT, GLAND BOLTS, ETC.
 4. CONCRETE TO BEAR AGAINST UNDISTURBED EARTH WITH BEARING AREA EQUIVALENT TO AT LEAST A X B.

PLAN: 90° BEND NOT TO SCALE

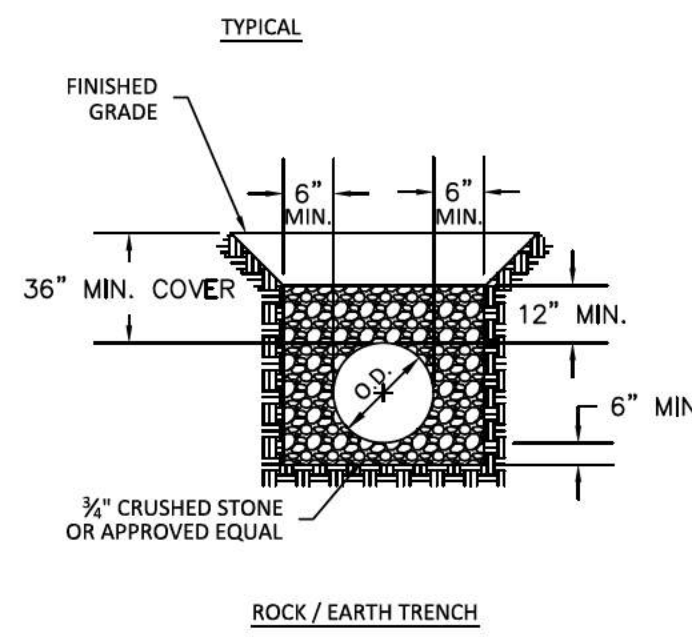
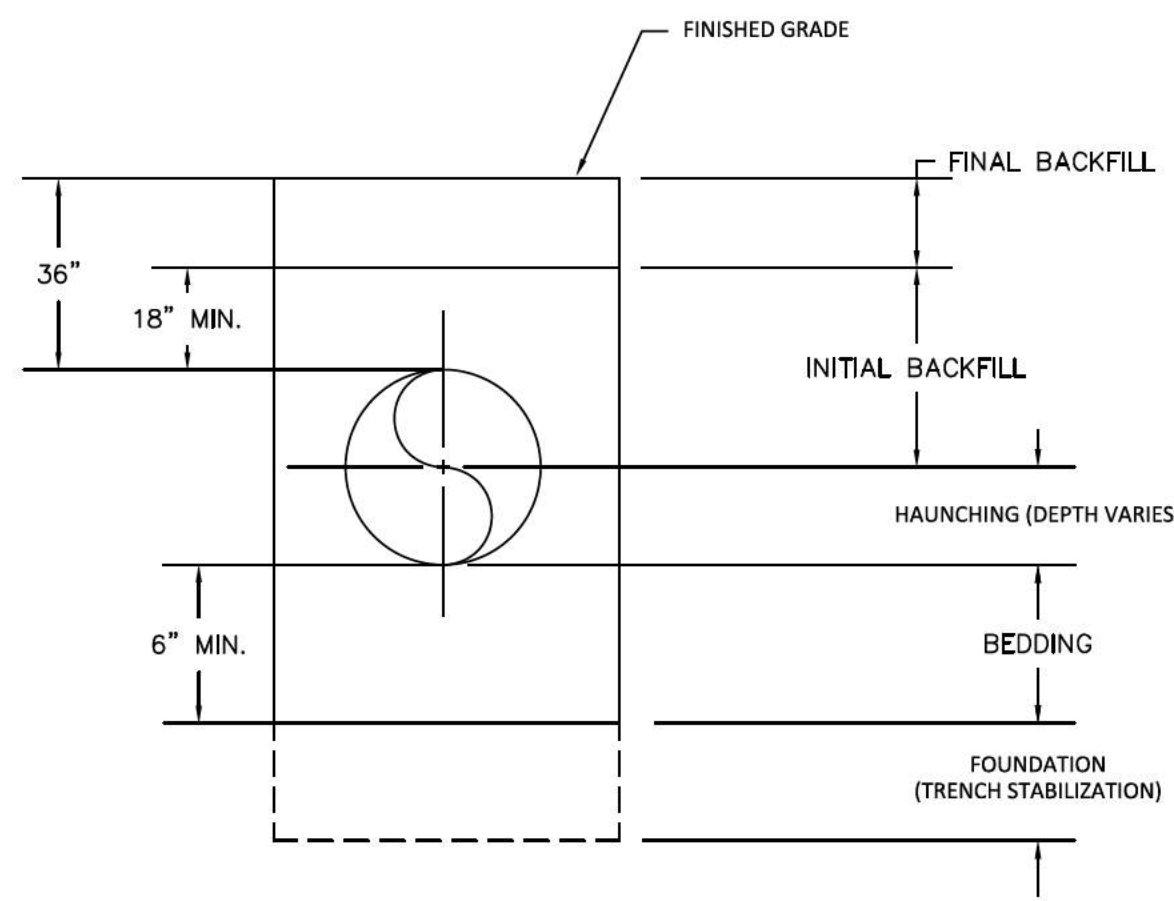


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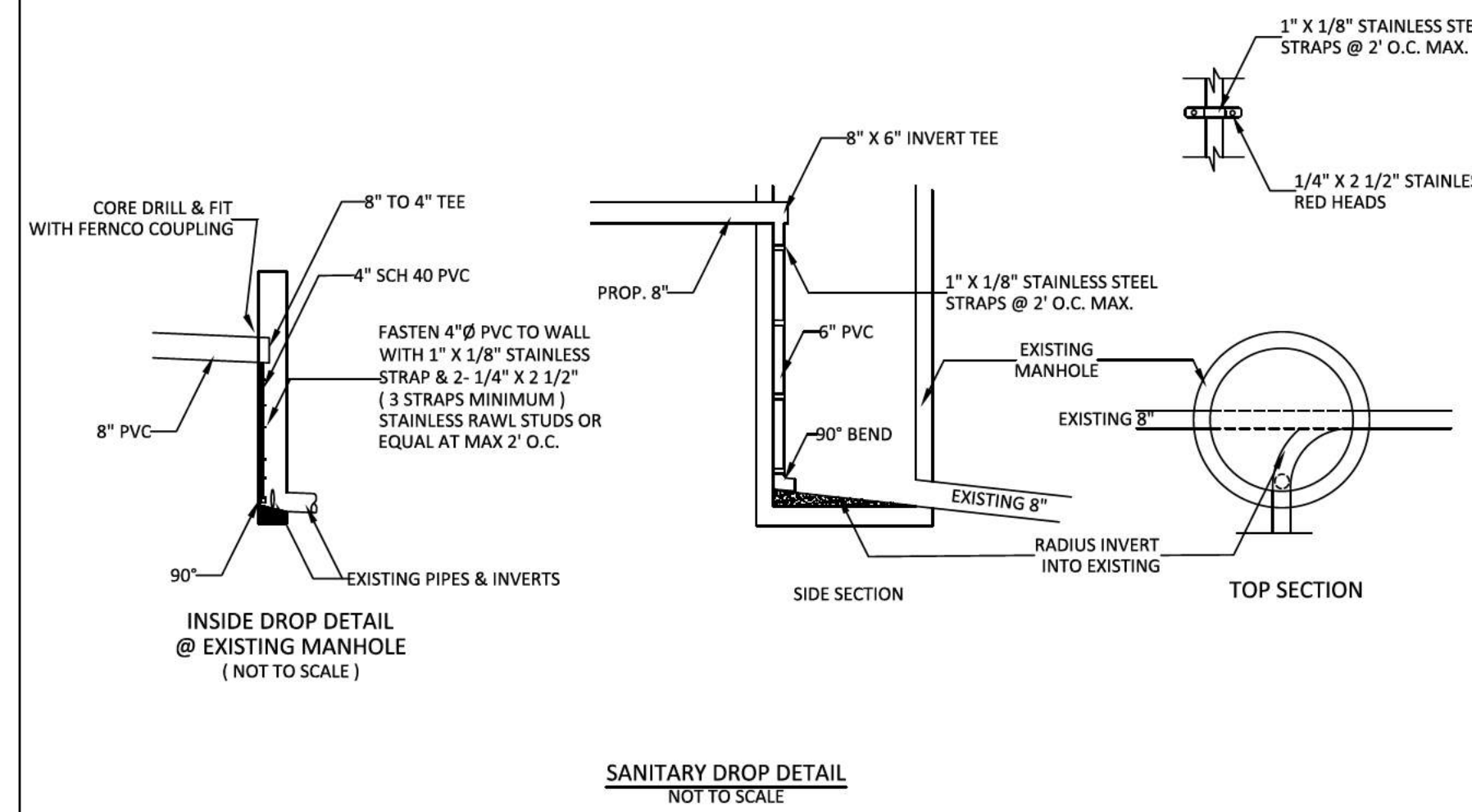
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 SUMNER COUNTY, TENNESSEE

WATER DETAILS

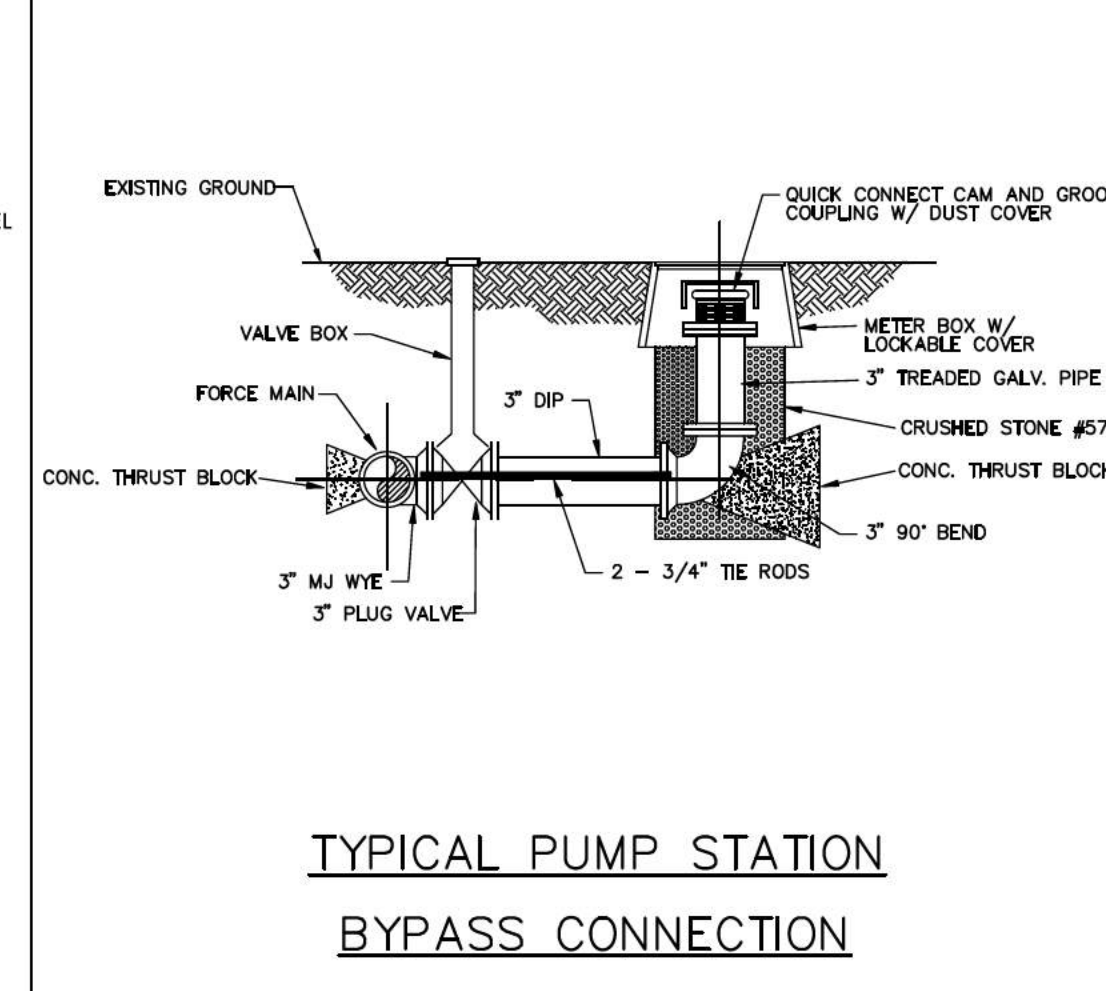


- NOTES:
- BEDDING, HAUNCHING AND INITIAL BACKFILL LAYERS SHALL BE 3/4\"/>
 - TRENCH SLOPE TO MEET CURRENT OSHA AND STATE GUIDELINES.
 - SEE APPROVED MATERIALS LIST.

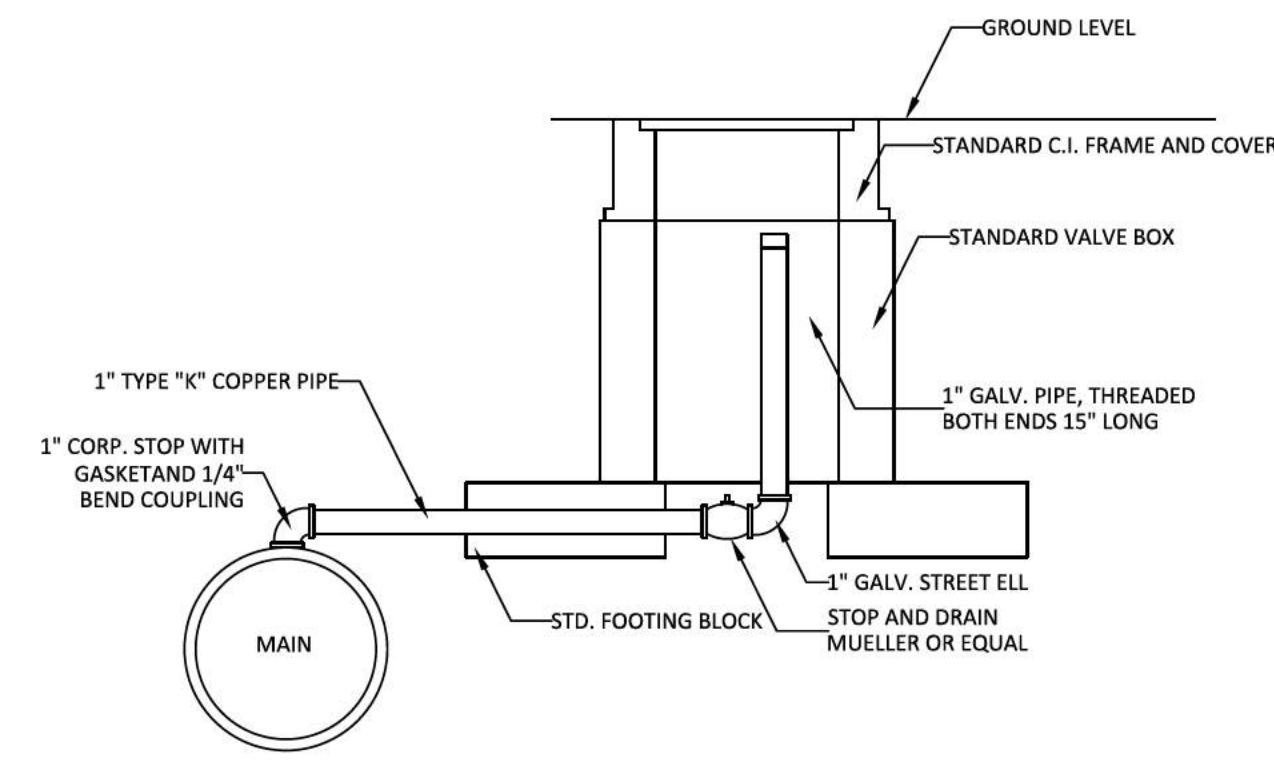
PIPE TRENCHING, BEDDING, AND HAUNCHING DETAILS



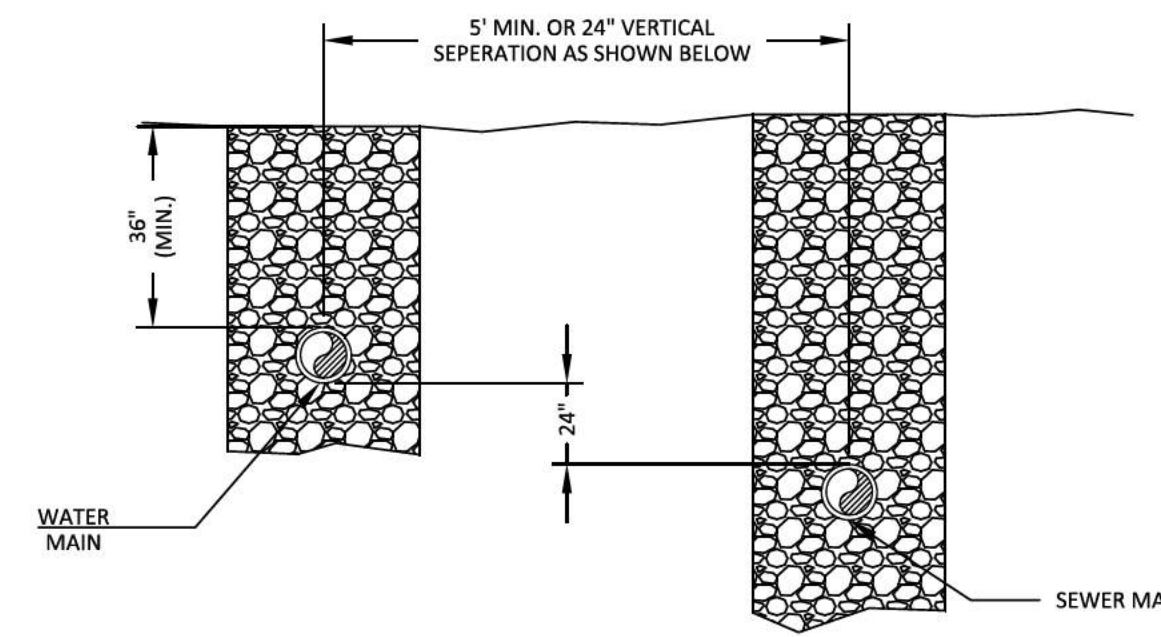
SANITARY DROP DETAIL NOT TO SCALE



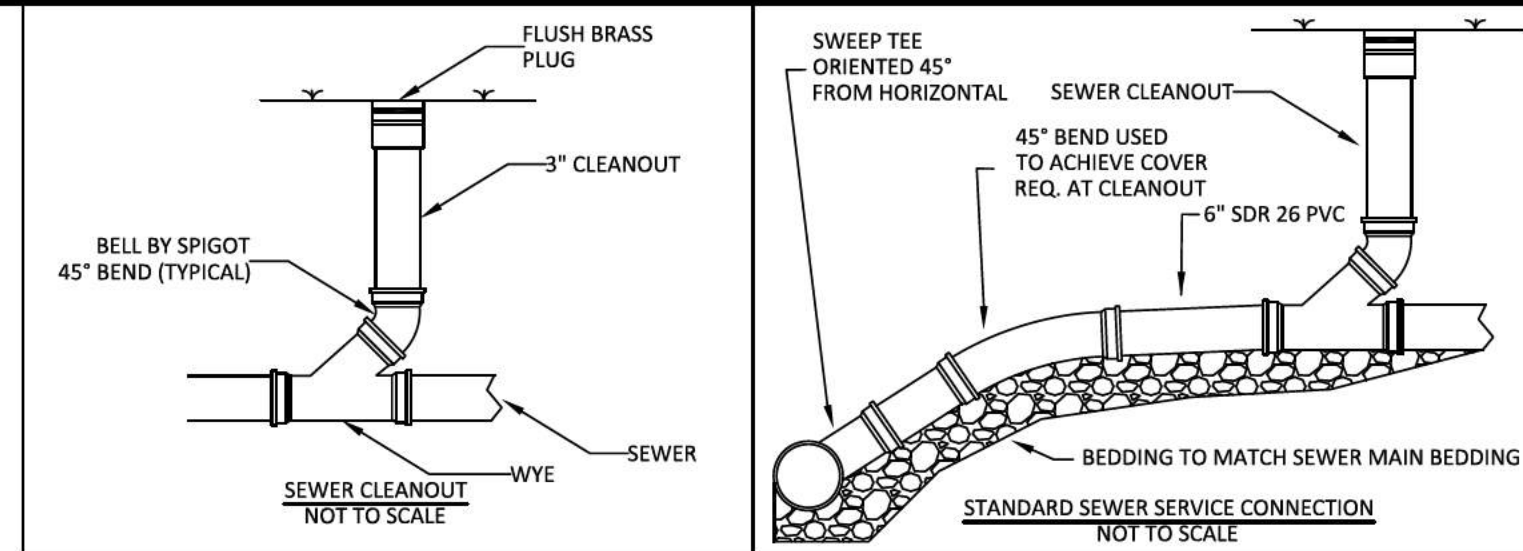
TYPICAL PUMP STATION BYPASS CONNECTION



1\"/>

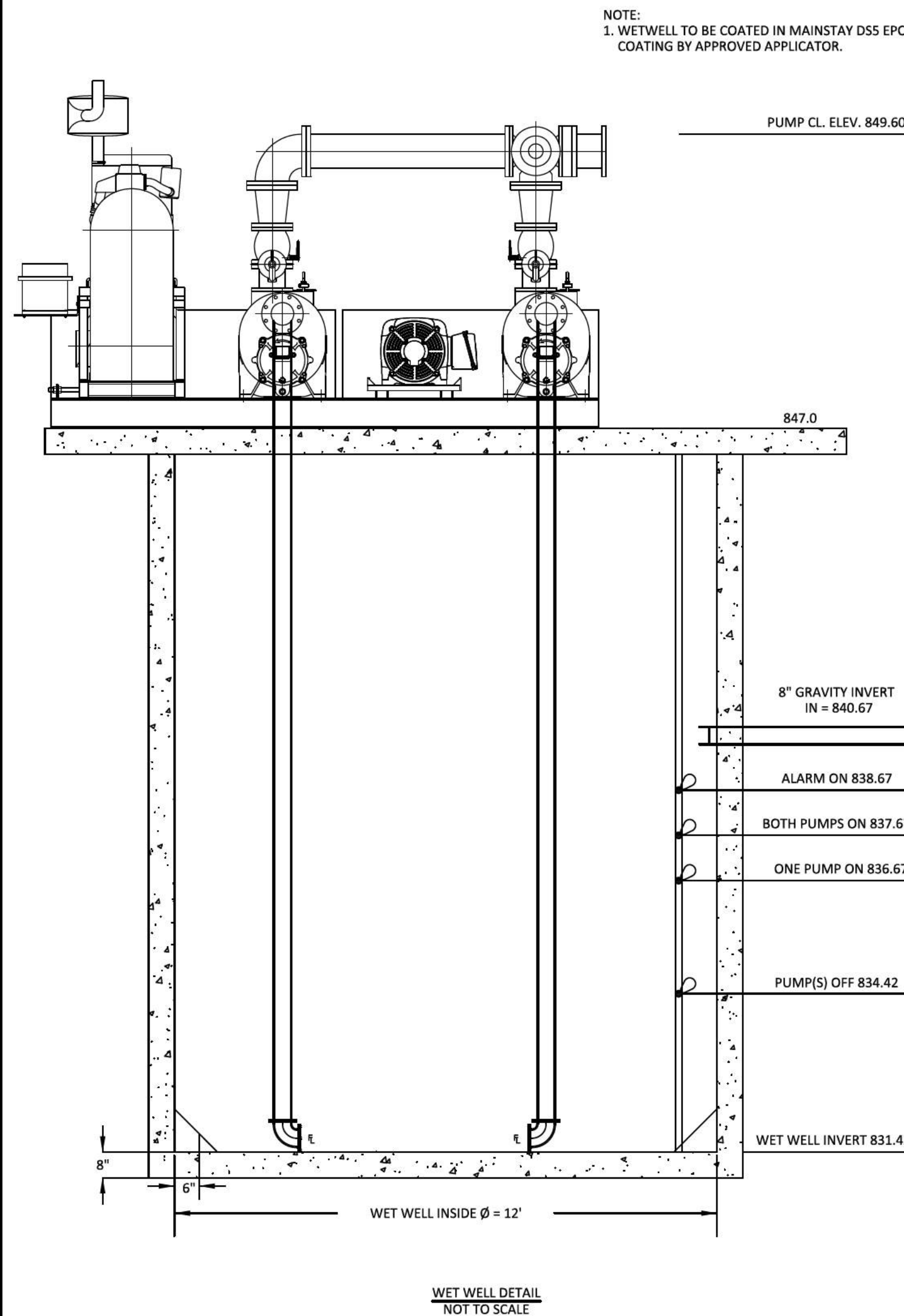


WATER AND SEWER SEPARATION DETAIL NOT TO SCALE

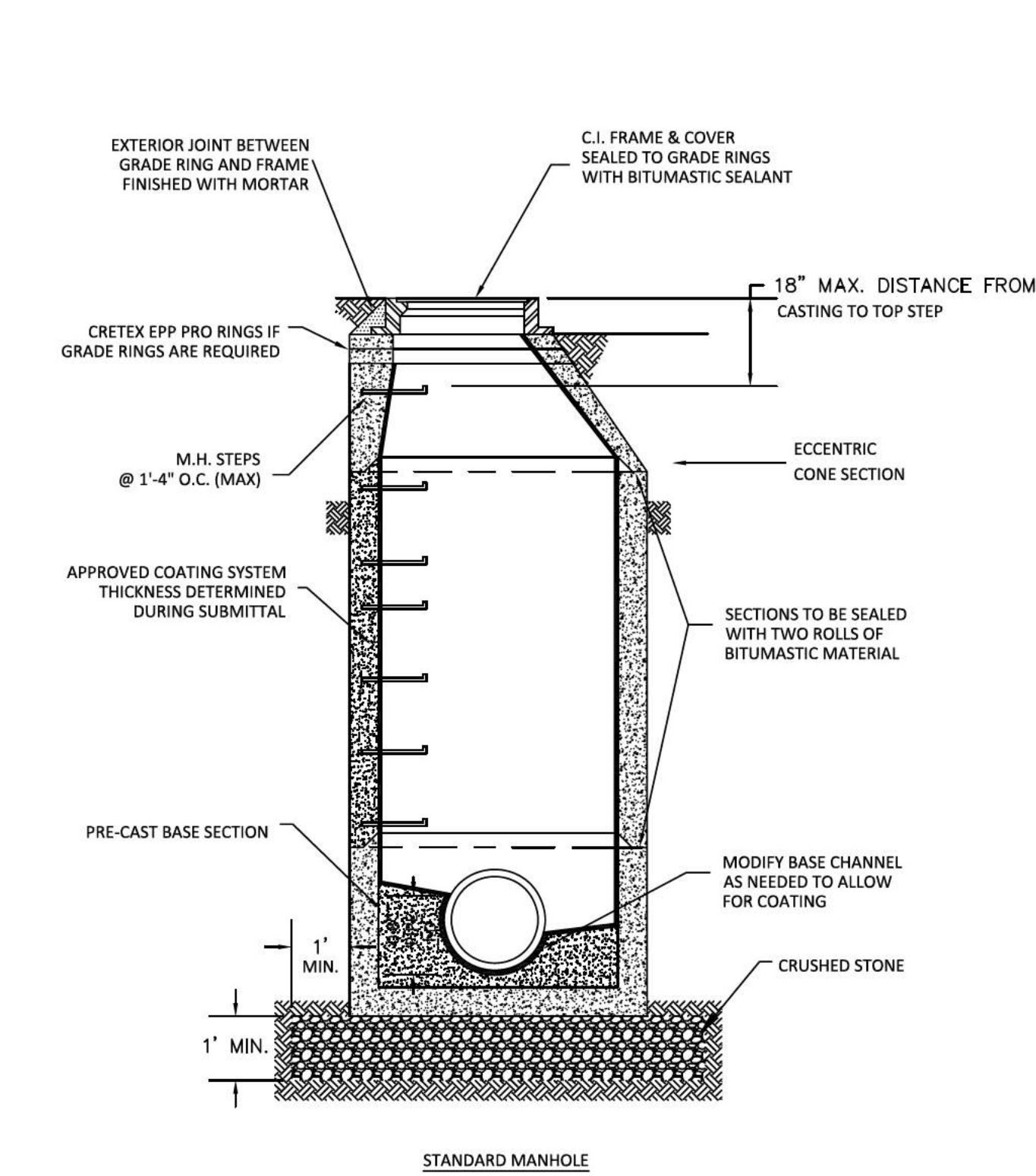


- NOTES:
- SEE APPROVED PLANS FOR CONNECTION ELEVATION.

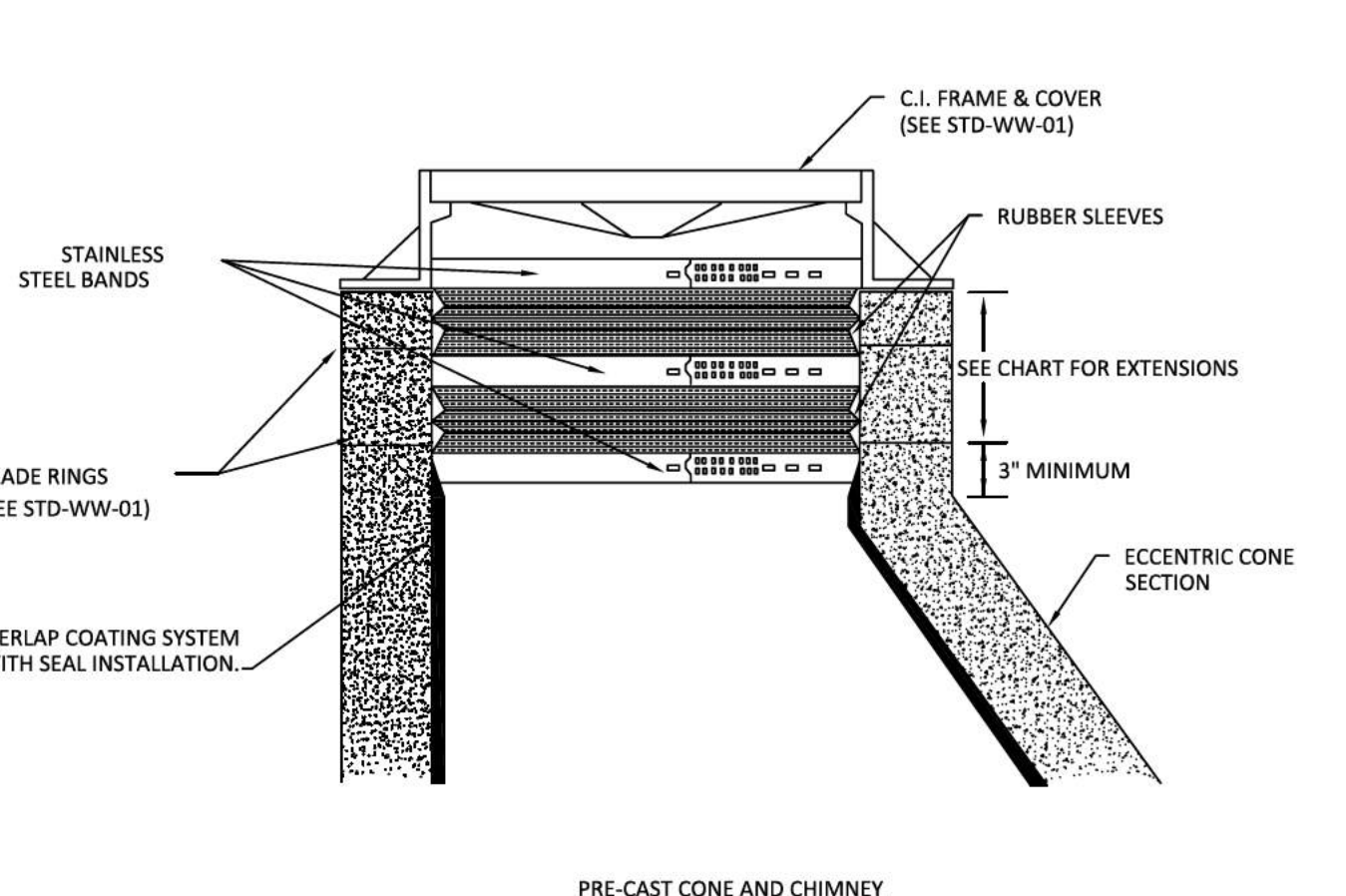
PRE-CAST CONCRETE MANHOLE CONNECTION DETAIL



WET WELL DETAIL NOT TO SCALE



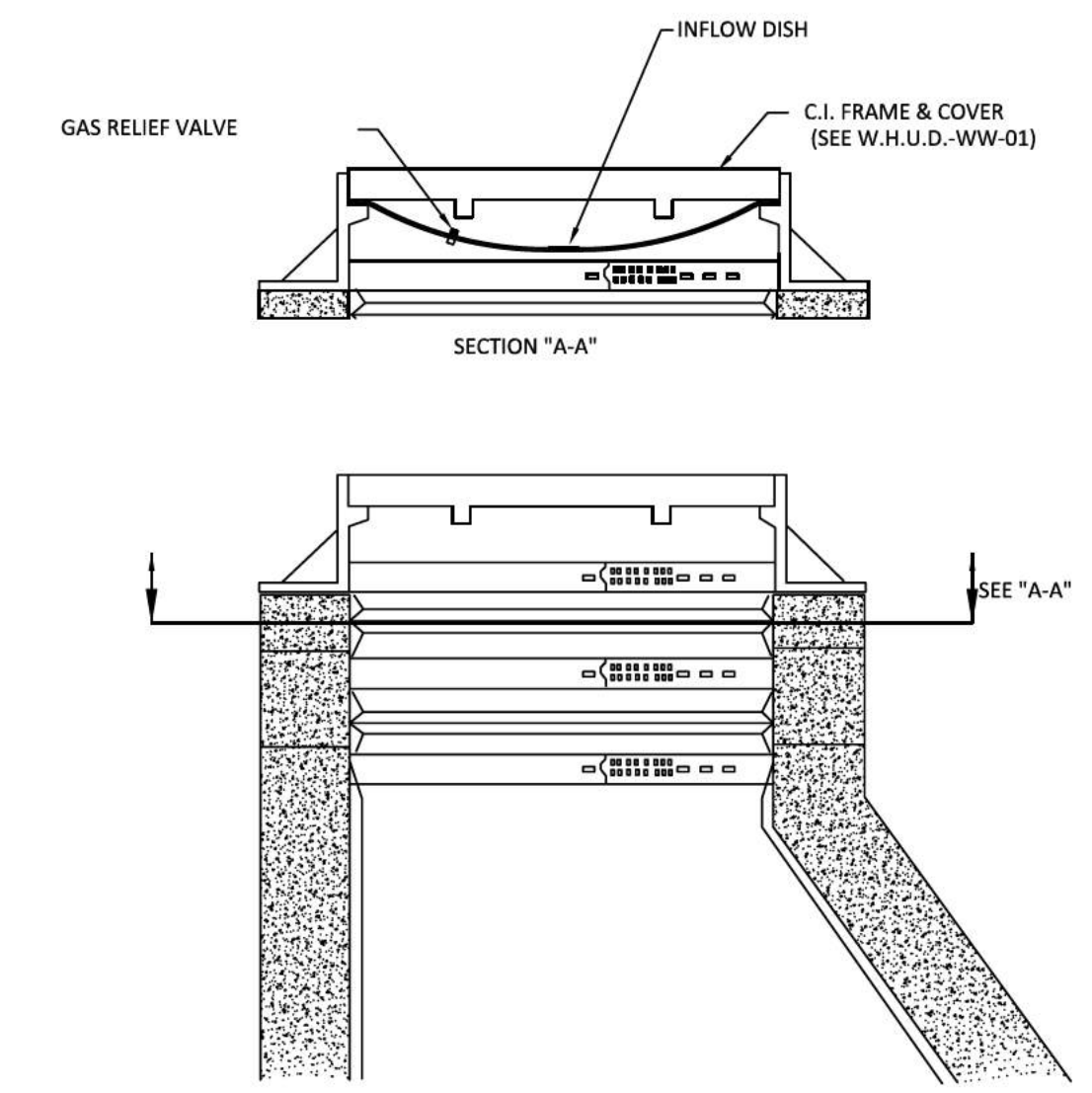
PRE-CAST CONCRETE MANHOLE DETAIL NOT TO SCALE



INSTALLATION OF CHIMNEY SEAL DETAIL NOT TO SCALE

COMBINATIONS OF SEALS AND EXTENSIONS	TO SPAN HEIGHT OF:		
	W/ STANDARD SEAL	W/ WIDE SEAL	W/ EXTRA WIDE SEAL
SEAL ONLY	0\"/>		

- NOTES:
- THE RUBBER SLEEVE IS AVAILABLE IN 3 SIZES, 8.5\"/>
 - SEE THE CHIMNEY HEIGHT TABLE FOR SEAL EXTENSION COMBINATIONS NEEDED TO SPAN FROM THE FRAME TO THE TOP OF THE CONE ON MANHOLES WITH VARIOUS CHIMNEY HEIGHTS.
 - THE TOP OF THE CONE MUST HAVE A MINIMUM OF 3\"/>
 - SEE APPROVED APPROVED MATERIALS LIST.



MANHOLE WATERTIGHT INSERT DETAIL NOT TO SCALE

- NOTES:
- WATERTIGHT INSERT MUST BE EQUIPPED WITH A GAS RELIEF VALVE, TWO NYLON LIFTING STRAPS, AND A CLOSED CELL NEOPRENE GASKET UNDER THE INSERT BODY RIM.
 - SEE APPROVED MATERIALS LIST.

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 114 B West Main Street
 Gallatin, TN 37066
 615-230-7269
 andy.leath@greendesign.com

01-08-23

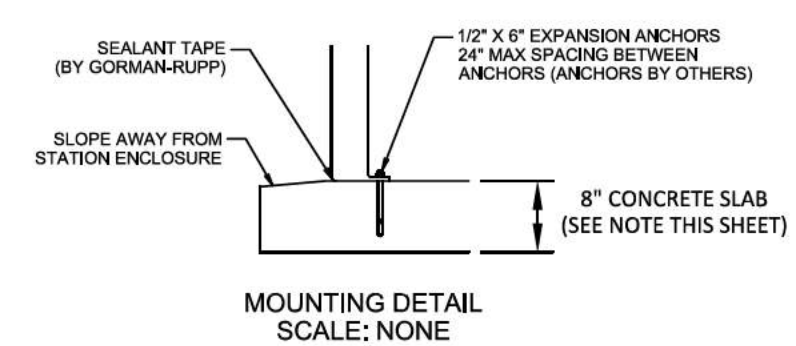
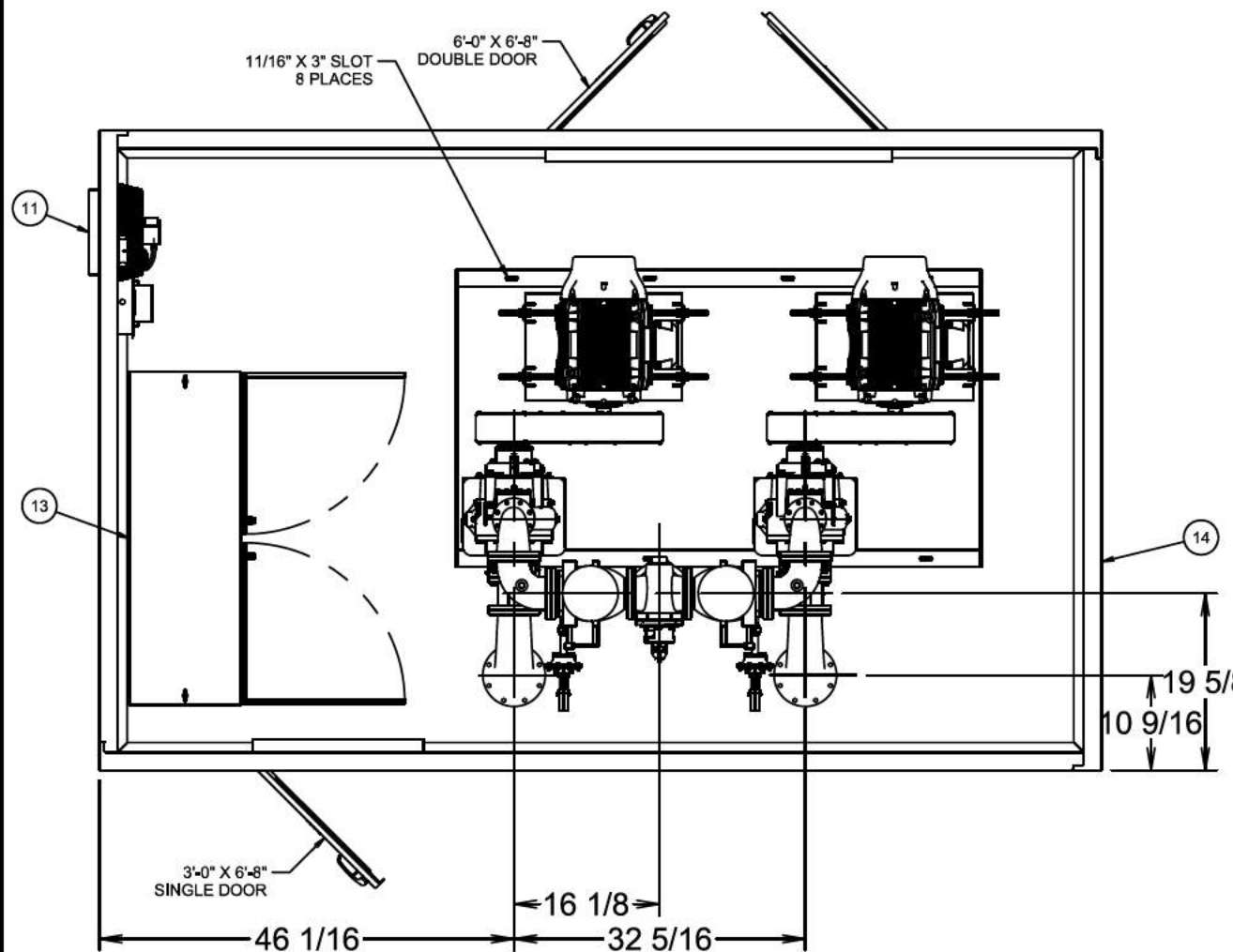
PLEASANT GROVE FARMS, PHASE 1
 CONSTRUCTION PLANS
 PLEASANT GROVE ROAD
 CITY OF WESTMORELAND
 SUMNER COUNTY, TENNESSEE

NO.	DATE	REVISION	PER CITY COMMENTS
1	05-13-2022		
2	06-16-2022		
3	08-23-2022		
4	10-25-2022		
5	02-07-2023		

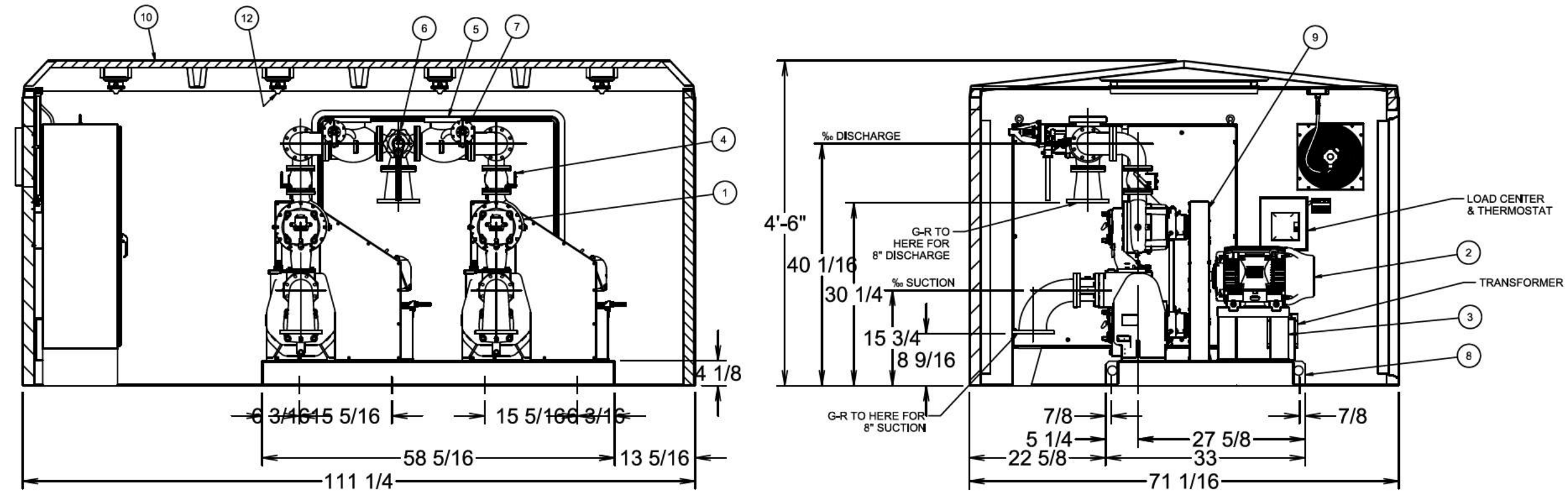
SHEET NO. C 12.2
 SHEET 46 OF 47
 JOB# 21.112G 23 MARCH 2022

ITEM	DESCRIPTION	MATERIAL & SIZE
1	PUMP	CAST IRON VS4-B
2	MOTOR	CAST IRON
3	MOTOR STAND ASSEMBLY	STEEL
4	PRIMARY CHECK VALVE	CAST IRON 4"
5	SECONDARY CHECK VALVE	CAST IRON 6" X 6"
6	DISCHARGE PLUG VALVE	CAST IRON 6" 3-WAY
7	AIR RELEASE VALVE	CAST IRON 1-1/4"
8	STATION BASE ASSEMBLY	STEEL
9	BELT GUARD ASSEMBLY	ALUMINUM
10	STATION ENCLOSURE ASSY	FRP 12'0" X 18'4"
11	EXHAUST FAN	STEEL 1735 CFM
12	LED LIGHT FIXTURE	4000 LUMENS
13	MOTOR CONTROL PANEL	STAINLESS
14	INTAKE VENT ASSEMBLY	ALUMINUM

REV	DATE	RECORD	BY	CHK



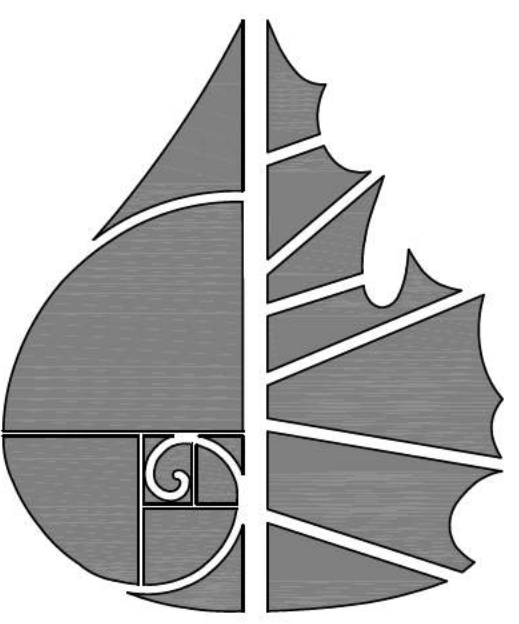
NOTES:
1. STEEL REBAR REINFORCEMENT IN SLAB SHALL BE AS DIRECTED BY ENGINEER.



DUPLEX VS4-B
8X6X8 603252.dwg

AB	THE GORMAN-RUPP CO.			
	MANSFIELD, OHIO ST. THOMAS, ONTARIO			
	BASE MOUNTED DUPLEX PUMP UNIT WITH FIBERGLASS ENCLOSURE			
DLK	BW	BW	DATE	REV
D			01/23/2023	
			60-3252	

SHEET 1 OF 2

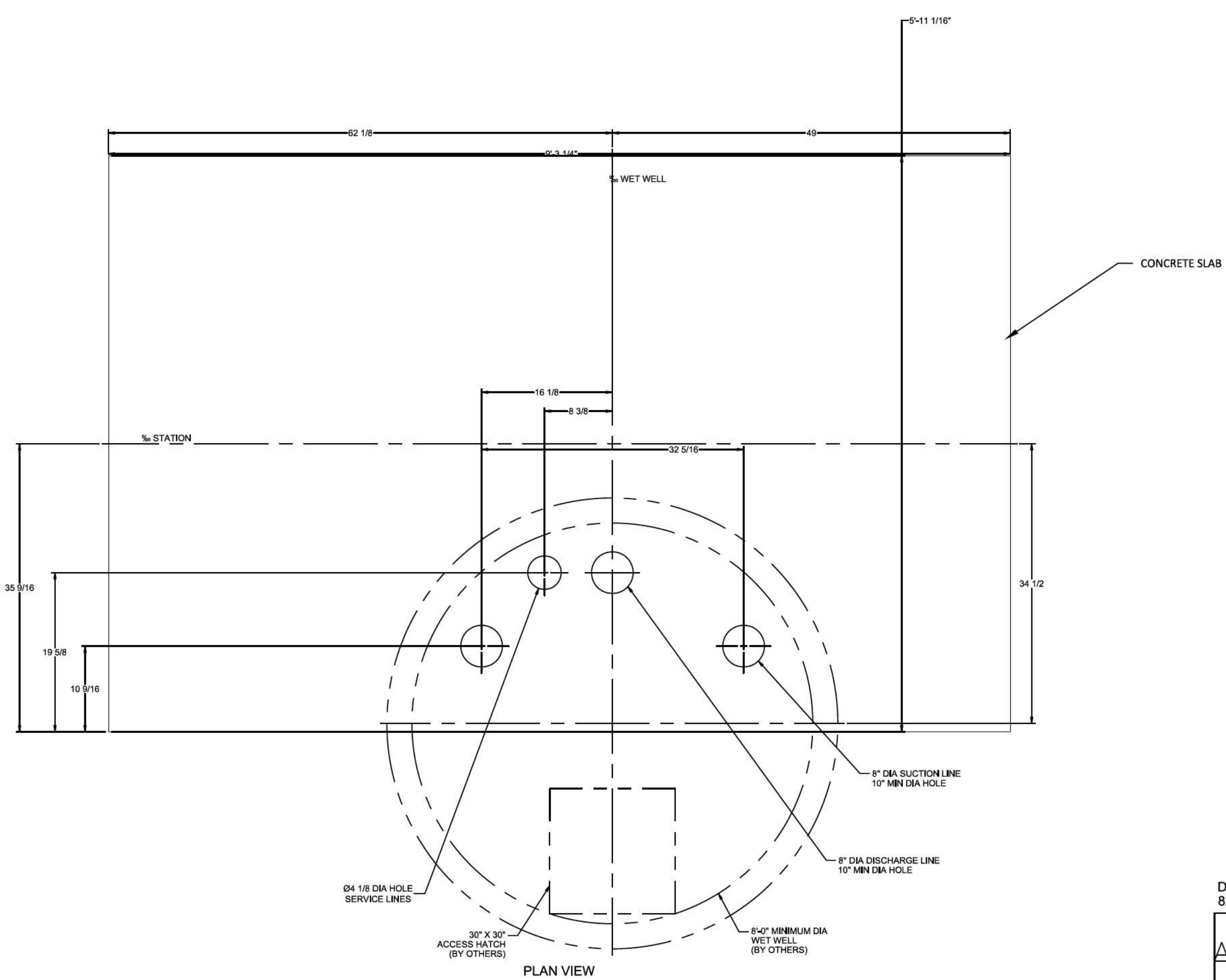


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PLEASANT GROVE FARMS, PHASE 1
CONSTRUCTION PLANS
PLEASANT GROVE ROAD
CITY OF WESTMORELAND
SUMNER COUNTY, TENNESSEE

SEWER DETAILS



REV	DATE	RECORD	BY	CHK

DUPLEX VS4-B
8X6X8 603252.dwg

AB	THE GORMAN-RUPP CO.			
	MANSFIELD, OHIO ST. THOMAS, ONTARIO			
	BASE MOUNTED DUPLEX PUMP UNIT WITH FIBERGLASS ENCLOSURE			
DLK	BW	BW	DATE	REV
D			01/23/2023	
			60-3252	

SHEET 2 OF 2

NO.	DATE	REVISION	PER CITY COMMENTS
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SHEET NO.
C 12.3
SHEET 47 OF 47
JOB# 21.112G 23 MARCH 2022