

HARTSVILLE/TROUSDALE CO. PLANNING COMMISSION AGENDA

The Hartsville/Trousdale County Planning Commission will meet in regular session on March 10th at 7:00 pm, in the Trousdale County Community Center.

The Agenda is as follows:

**CALL TO ORDER
ROLL CALL**

APPROVAL OF MINUTES

Regular Feb 10th, 2025, Planning Commission Meeting

**CHANGES TO THE AGENDA
PUBLIC HEARING**

OLD BUSINESS

NEW BUSINESS

REZONE

- **Rezone C2/A1 to C2/R3 of 11.73 acres on McMurry Blvd (Map 19 Parcel 18.25) by Phillip Welker representative of the property owners for future development in the 7th Civil District.**

FINAL PLAT

- **Final Plat for a 10-lot subdivision on 9.72 acres at Thompson LN and McMurry Blvd (Map 027D B Parcel 21.01) by Tom P Thompson in the 7th Civil District.**
- **Final Plat for a 11- lot subdivision on 7.15 acres on Sam Beasley Road by L & E Property Developers Contractors in the 7th Civil District.**

DISCUSSION

REPORT FROM CHAIRMAN

REPORT FROM BUILDING OFFICIAL

- **Stormwater**
- **TBOA Conference April 13 through the 16**
- **Code Cycle updates**

CLOSING REMARKS FROM THE CHAIR AND COMMISSION

ADJOURN

Hartsville/Trousdale County Planning Commission Regular Meeting

Meeting Minutes

February 10, 2025 - 7:00 P.M. – Trousdale County Courthouse

Present: Heather Bay, Katie Dillon, Mitch Gregory, Arthur Harper, Rosalie Myhan, David Nollner, David Thomas, Cal Welch

Absent: Amanda Carman, John Kerr

Others Present: Jim Carman

Roll Call

- Vice Chairman Thomas called the meeting to order at 7:00 P.M. and asked Rosalie Myhan to conduct a roll call.

Approval of Minutes

- Vice Chairman Thomas asked for a review of the January 13, 2025 meeting minutes. Cal Welch made a motion to approve minutes. Seconded by David Nollner. None opposed.

MOTION CARRIED

Changes to the Agenda – None

Public Hearing – None

Old Business – None

NEW BUSINESS

- **Preliminary Plat for a 10-lot subdivision on 9.72 acres at Thompson Ln and McMurry Blvd (Map 027D B Parcel 21.01) by Tom P Thompson in the 7th Civil District**

Jim Carman spoke about the preliminary plat for the 10-lot subdivision on Thompson Ln. Mr. Carman stated that the access to city water is actually on the other side of Thompson Ln, so a new line would have to be put in on the front of the property. Mr. Carman also stated the old home previously listed on the plat will be removed. Heather Bay made a motion to approve the preliminary plat. Seconded by Katie Dillon. None opposed.

MOTION CARRIED

DISCUSSION

- **Food Trucks**

Vice Chairman Thomas discussed with Planning Commission members about the need for Codes and Zoning to develop a permit fee so that the Planning Commission can then develop a guideline of where they can be placed in the county. David Nollner made a motion for Codes and Zoning to develop the permit fee. Seconded by Katie Dillon. None opposed.

- **PUD-Planned Unit Developments**

Vice Chairman Thomas told Planning Commission members that the first meeting about PUDs would be in two weeks in Codes and Zoning. Mr. Thomas stated that Rick Gregory has taken Cheatham County's footprint and converted it to be specific to Trousdale County. Once finished from Codes and Zoning, Planning Commission members will look at it to see if any additional specifics need to be added.

Report from Building Official

Rosalie Myhan presented the Planning Commission members with an email received from GNRC letting them know that our representative is no longer with GNRC. Ms. Myhan asked for the Planning Commissions input on hiring an independent Planning Consultant versus continuing with GNRC. Ms. Myhan told the members the position for the Office Manager will be posted. Ms. Myhan stated the individual hired for the position will also take over doing the minutes for the Planning Commission and the BZA.

Closing Remarks from the Chair and Building Inspector

Adjourn

- David Nollner made a motion to adjourn. Seconded by Arthur Harper. None opposed

MOTION CARRIED



Rezoning Permit Application

Date: 02/28/2025

Applicant / Owner

Applicant Type:

Applicant Name: Philip Welker

Address:

City, State, Zip:

Phone:

Email:

Owner Name:

Welch Family (Mark Kemp)

Owner Phone:

Owner Email:

Property

Site Address: McMurray Blvd. West

City, State, Zip: Hartsville TN

Current Zoning: C2/A1

Requested Zoning: C2/R3

Lot Size: 11.73 acres

Road Frontage: 832

Easements: 0

Tax Map #: 19

Group: NA

Parcel: 18.25

Record/Deed Book: 159/674

Subdivision Name:

Phase:

Lot #:

Water Source: Hartsville / Trousdale Water Dept.

Sewer/Septic: Sewer

Reason: Requesting to rezone rear 8.19 acres of 11.73 acres track to allow for multifamily while maintaining C2 and commercial retail along the road frontage.

I do hereby certify that the information contained herein is true and correct.

Philip Welker

02/28/2025

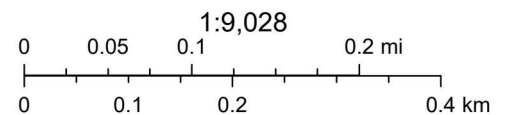
Date

Trousdale County - Parcel: 019 022.00



Date: March 6, 2025

County: TROUSDALE
Owner: WELCH ANDREW ETUX MARJOR
Address: HWY 25 W
Parcel ID: 019 022.00
Deeded Acreage: 0
Calculated Acreage: 398.08
Vexcel Imagery Date: 2023



State of Tennessee, Comptroller of the Treasury, Division of Property Assessments (DPA), Esri Community Maps Contributors, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/ NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

The property lines are compiled from information maintained by your local county Assessor's office but are not conclusive evidence of property boundaries.

February 28, 2025

Rosalie Myhan
Building Official
Trousdale County
328 Broadway, Room 1
Hartsville, TN 37074

Subject: Letter of Authorization for the Rezoning Application for Welch Family Property – McMurray Blvd. West

Dear Ms. Myhan,

I am writing as a representative of the Welch Family as property owners of approximately 11.73 acres located on McMurray Blvd. West that is subject to the Rezoning Application by Philip Welker to give authorization of the request being submitted as part of the necessary process to facilitate future land use that aligns with the growth and development objectives of the area.


We kindly ask that this application be reviewed at your earliest convenience and that any required steps or public hearings be scheduled accordingly. If there are any additional documents or information needed to complete the application, please let us know.

Thank you for your time and consideration. Please feel free to contact me at 615-633-1379 or annekemp20@gmail.com if you require further details.

Sincerely,

Name

Anne Kemp

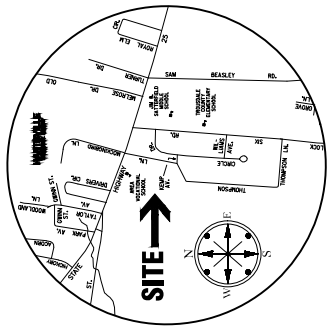
	dotloop verified 02/28/25 3:22 PM CST S1Y8-3FZ9-HTEU-TH3B
---	---

FINAL SUBDIVISION PLAT OF THE THOMPSON PROPERTY

LOCATED IN THE 7TH CIVIL DISTRICT OF TROUSDALE COUNTY, TENNESSEE

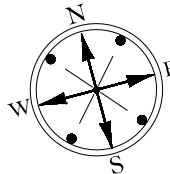
SCALE : 1" = 50'
 DATE : FEBRUARY 21, 2025
 SIZE : 9.724 AC.±
 DEED : R. B. 166, PG. 273, R.O.I.C.T.
 MAP : R. B. 184, PG. 693, R.O.I.C.T.
 MAP : MAP 27-D, PAR. B-21.01, T.A.O.T.C.T.

LOCATION SKETCH *n.t.s.*



STATE OF TENNESSEE
 KARL B. BAKER
 MAP 27-D, PAR. B-21.01

KARL B. BAKER
 MAP 27-D, PAR. B-21.01

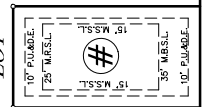


NOTES:

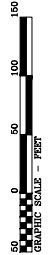
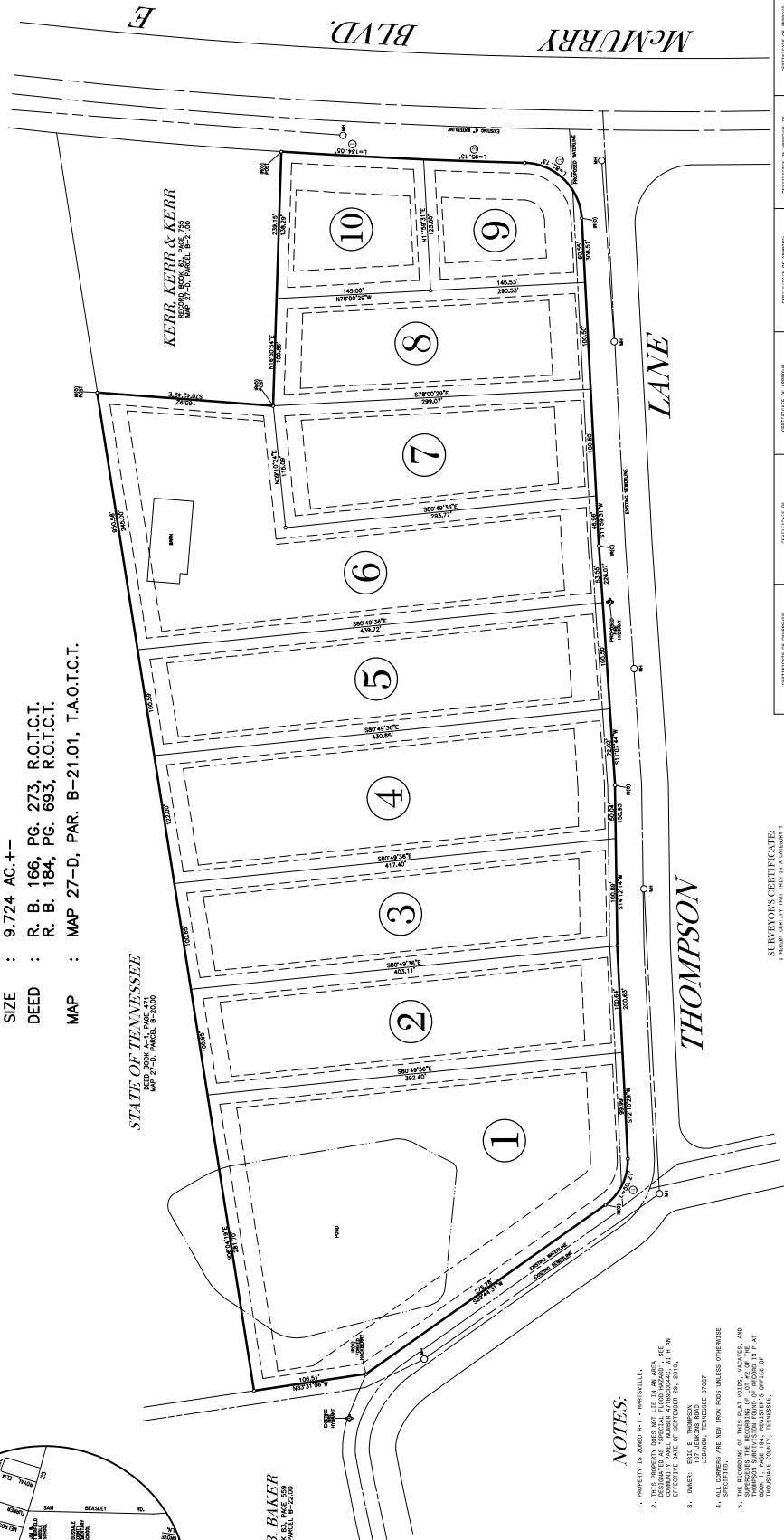
- PROPERTY IS ZONED R-1 - IMPERVILLE.
- THIS PROPERTY DOES NOT LIE IN AN AICP COMMUNITY PLAN, WATER ATTACHMENTS, WITHIN AN EFFECTIVE DATE OF SEPTEMBER 20, 2011.
- OWNER: 107 JENNIFER ROAD
- ALL CORNERS ARE TO BE MARKED UNLESS OTHERWISE SPECIFIED.
- THE RECORDING OF THIS PLAT, VESSELS, AND THOMPSON SUBDIVISION FORMS OF RECORD IN PLAT TROUSDALE COUNTY, TENNESSEE, IS OFFICE OF TROUSDALE COUNTY, TENNESSEE.

LOT	SIZE - SQ. FT.±
1	85,400
2	39,974
3	41,230
4	43,274
5	65,931
6	65,931
7	31,932
8	29,628
9	16,529
10	18,193

TYPICAL RESIDENTIAL LOT



STREET



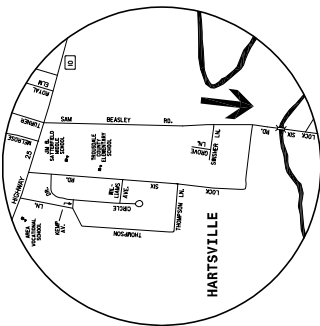
SURVEYOR'S CERTIFICATE:
 I, KARL B. BAKER, A LICENSED SURVEYOR IN THE STATE OF TENNESSEE, HAVE SURVEYED THE ABOVE PROPERTY AND THE PLAT OF THE THOMPSON PROPERTY, TROUSDALE COUNTY, TENNESSEE, AND THE PLAT IS TRUE AND CORRECT.



CHARMA SURVEYING
 107 JENNIFER ROAD
 TROUSDALE, TN 37166

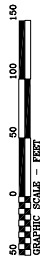
DEPARTMENT OF REVENUE	DEPARTMENT OF REVENUE	DEPARTMENT OF REVENUE	DEPARTMENT OF REVENUE	DEPARTMENT OF REVENUE
DATE: _____	DATE: _____	DATE: _____	DATE: _____	DATE: _____
SIGNATURE: _____	SIGNATURE: _____	SIGNATURE: _____	SIGNATURE: _____	SIGNATURE: _____

LOCATION SKETCH n.t.s.

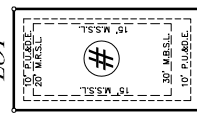


NOTES:

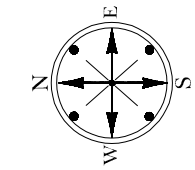
1. PROPERTY IS ZONED R-1 IN TROUSDALE COUNTY.
2. THIS PROPERTY LIES IN AN AREA DESIGNATED AS "L-1" UNDER THE TROUSDALE COUNTY ZONING ORDINANCE, WHICH IS A RESIDENTIAL USE ZONE. THE PROPERTY IS SUBJECT TO THE TROUSDALE COUNTY ZONING ORDINANCE, WHICH IS SUBJECT TO CHANGE.
3. OWNER: L & S PROPERTIES DEVELOPMENT CONTRACTORS, INC. MEMPHIS, TENNESSEE 37109
4. ALL DIMENSIONS ARE MEASUREMENTS UNLESS OTHERWISE SPECIFIED.



TYPICAL RESIDENTIAL LOT



STREET



FINAL SUBDIVISION PLAT OF GOOSE CREEK

LOCATED IN THE 7TH CIVIL DISTRICT OF TROUSDALE COUNTY, TENNESSEE

SCALE : 1" = 50'
 DATE : OCTOBER 23, 2024
 SIZE : 7.15 AC.+-
 DEED : R. B. 182, PG. 19, R.O.I.C.T.
 MAP : MAP 26, PAR. 37.04, T.A.O.I.C.T.

U.S. CORPS
OF ENGINEERS
OLD HICKORY LAKE

SURVEYORS CERTIFICATE:
I HEREBY CERTIFY THAT THIS IS A CORRECT AND TRUE COPY OF THE ORIGINAL SURVEY AS FILED IN THE OFFICE OF THE CLERK OF THE COUNTY OF TROUSDALE, TENNESSEE, ON OCTOBER 23, 2024.



CARMA SUZUYANG
REGISTERED PROFESSIONAL SURVEYOR
MEMBER: 0001, 0002



ROBERT C. HELSON
REGISTERED LAND SURVEYOR #204
MAP 26, PARCEL 37.04

Order	Radius	Tangent	Chord	Chord Angle
1	100.000'	200.000'	200.000'	90.000°
2	100.000'	141.421'	141.421'	45.000°
3	100.000'	100.000'	141.421'	45.000°
4	100.000'	141.421'	141.421'	45.000°
5	100.000'	200.000'	200.000'	90.000°
6	100.000'	141.421'	141.421'	45.000°
7	100.000'	100.000'	141.421'	45.000°
8	100.000'	141.421'	141.421'	45.000°
9	100.000'	200.000'	200.000'	90.000°
10	100.000'	141.421'	141.421'	45.000°
11	100.000'	100.000'	141.421'	45.000°
12	100.000'	141.421'	141.421'	45.000°
13	100.000'	200.000'	200.000'	90.000°
14	100.000'	141.421'	141.421'	45.000°
15	100.000'	100.000'	141.421'	45.000°

1. (SEE NOTE) IS THE PROPERTY OF THE STATE OF TENNESSEE.	2. (SEE NOTE) IS THE PROPERTY OF THE STATE OF TENNESSEE.	3. (SEE NOTE) IS THE PROPERTY OF THE STATE OF TENNESSEE.	4. (SEE NOTE) IS THE PROPERTY OF THE STATE OF TENNESSEE.
NAME: _____ REGISTERED LAND SURVEYOR #_____	NAME: _____ REGISTERED LAND SURVEYOR #_____	NAME: _____ REGISTERED LAND SURVEYOR #_____	NAME: _____ REGISTERED LAND SURVEYOR #_____

GENERAL NOTES

1. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE PERMITTING AGENCIES HAVE BEEN ADVISED AND ALL PLANS AND OTHER DOCUMENTS BY ALL OF THE PERMITTING AGENCIES.
2. ALL CHANGES TO THE PLANS SHALL BE MADE IN ACCORDANCE WITH THESE PLANS, SPECIFICATIONS, REFERENCED DOCUMENTS, AND THE REQUIREMENTS AND STANDARDS OF THE LOCAL GOVERNING AUTHORITY.
3. THESE PLANS ARE BASED ON INFORMATION PROVIDED TO OUR OFFICE AT THE TIME OF PLAN PREPARATION. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY OUR OFFICE IF ACTUAL SITE CONDITIONS DIFFER FROM THAT SHOWN ON THE PLAN, OR IF THE PROPOSED WORK WOULD BE LIMITED BY ANY OTHER SITE INFORMATION.
4. ALL DIMENSIONS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER IN WRITING IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. NO DIMENSION COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK NOTIFICATION HAS NOT BEEN GIVEN.
5. LOCATIONS OF PROPERTY LINES & UNDERGROUND UTILITIES POSSIBLY INCOMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATION & ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES BEFORE MAKING TIES TO THEM.
6. DEBRIS SHALL NOT BE BURIED ON THE SUBJECT SITE. ALL EXCAVATED MATERIAL AND DEBRIS SHOULD BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF AT AN APPROVED LOCATION. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND LAWS.
7. THE CONTRACTOR SHALL OBTAIN A POST ALL NECESSARY PERMITS.
8. THE CONTRACTOR SHALL PROVIDE SAFETY MEASURES THROUGHOUT THE FULL TERM OF THE PROJECT. IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES AND LAWS, THE CONTRACTOR SHALL MAINTAIN ALL NECESSARY SAFETY SIGNS AND SIGNALS AS MANDATED BY THE FEDERAL HIGHWAY ADMINISTRATION.
9. A COPY OF THE APPROVED PROJECT PLANS SHALL REMAIN WITH THE CONTRACTOR ON SITE AT ALL TIMES DURING THE PROJECT.
10. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS OR MEANS FOR COMPLETION OF THE WORK DEPICED ON THESE PLANS NOR ANY COMPLETION SCOPE REVISIONS WHICH RESULT FROM SAME. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND NOTIFICATION OF OWNER AND ENGINEER OF RECORD WHEN A CONFLICT IS IDENTIFIED.
11. NEITHER THE PROFESSIONAL ACTIVITIES OF MID-TEN ENGINEERING COMPANY NOR THE PRESENCE OF MID-TEN ENGINEERING CONTRACTORS OR ITS COLLEASONS SHALL BE HELD RESPONSIBLE FOR ANY DAMAGE TO EXISTING CONSTRUCTION MEANS, METHODS, SOLUTIONS, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING THE WORK SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY SAFETY REGULATIONS REQUIRED BY ANY REGULATORY AGENCIES. MID-TEN ENGINEERING COMPANY AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS PERSONNEL. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY. MID-TEN ENGINEERING COMPANY SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND NOTIFICATION OF OWNER AND ENGINEER OF RECORD. CONTRACTORS HOLDERS OF GENERAL LIABILITY INSURANCE.

UTILITY GENERAL NOTES

1. ALL INSTALLATION MATERIALS SHALL BE IN ACCORDANCE WITH THE CITY OF HARTSVILLE TROUSDALE WATER AND SEWER UTILITY DISTRICT STANDARDS, SPECIFICATIONS, PLANS AND DETAILS.
2. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION REQUIREMENTS AND SPECIFICATIONS.
3. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCING BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CERTIFICATIONS FOR EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CERTIFICATIONS FOR EXISTING UTILITIES MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY OUR OFFICE IF ACTUAL SITE CONDITIONS DIFFER FROM THAT SHOWN ON THE PLAN, OR IF THE PROPOSED WORK WOULD BE LIMITED BY ANY OTHER SITE INFORMATION.
5. UNDERGROUND UTILITIES SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE BACKFILLING.
6. CONTRACTOR SHALL NOTIFY THE UTILITY BEFORE CONNECTING TO EXISTING UTILITY.
7. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.
8. ALL UTILITY PIPES SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH THE DETAIL DRAWINGS.
9. PIPES OF EXISTING MANHOLES SHALL BE SAVED AS NECESSARY FOR FUTURE WATER OR SEWERAGE SERVICE. EXISTING MANHOLES IN UNPAVED AREAS SHALL BE FOUR (4) INCHES ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
10. ALL CONCRETE FOOT ENCHANCEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 PSI.
11. DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES.
12. ALL UTILITIES SHALL BE TESTED TO ENSURE PROPER INSTALLATION.

STORM SEWER GENERAL NOTES

1. ALL STORM SEWER STRUCTURES IN PAVED AREAS SHALL BE FLUSH WITH ASPHALT AND SHALL HAVE TRAFFIC BEARING CASTINGS. MANHOLES IN UNPAVED AREAS SHALL BE FOUR (4) INCHES ABOVE FINISHED GROUND ELEVATIONS WITH WATER TIGHT LIDS.
2. DISTANCES FOR SANITARY SEWERS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PIPELINE ELEVATIONS SHALL BE ADJUSTED TO THE REQUIRED FINAL GRADE IN ACCORDANCE WITH THE PLANS. ALL FRAME SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
3. COMPACTION OF ALL TRENCHES WITHIN THE PROJECT SITE MUST BE ATTAINED AND COMPACTION RESULTS SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.
4. ALL STORM SEWER PIPES ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
5. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM DRAIN STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
6. ALL STORM SEWER STRUCTURES AND PIPES SHALL BE BEDDED IN ACCORDANCE WITH DETAILS ON PLANS.

SANITARY SEWER GENERAL NOTES

1. ALL SANITARY SEWER PIPES SHALL BE BEDDED IN ACCORDANCE WITH DETAILS ON PLANS.
2. DISTANCES FOR SANITARY SEWERS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATION. PIPELINE ELEVATIONS SHALL BE ADJUSTED TO THE REQUIRED FINAL GRADE IN ACCORDANCE WITH THE PLANS. ALL FRAME SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO THE FINAL LIFT OF ASPHALT.
3. ALL SANITARY SEWER MAIN TESTING SHALL BE IN ACCORDANCE WITH UTILITY COMPANY'S STANDARDS. ALL TEST RESULTS SHALL BE SUBMITTED TO THE OWNERS ENGINEER, THE OWNER, AND THE GOVERNING AUTHORITY PRIOR TO BEGINNING SERVICE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES AND IMPROVEMENTS DURING INSTALLATION OF SANITARY SEWER SYSTEM.
5. SANITARY SEWER STRUCTURES AND PIPES SHALL BE BEDDED IN ACCORDANCE WITH DETAILS ON PLANS.
6. ALL SANITARY SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH ASPHALT AND SHALL HAVE TRAFFIC BEARING CASTINGS. MANHOLES IN UNPAVED AREAS SHALL BE FOUR (4) INCHES ABOVE FINISHED GROUND GRADING. ALL STORM STRUCTURE LIDS SHALL BE BITUMINOUS COATED AND LABELED "SANITARY SEWER".

WATER GENERAL NOTES

1. TRUNK LINES SHALL BE SET AT ALL BENDS AND FITTINGS. MECHANICAL JOINT RESTRAINTS (BRP-RING) SHALL BE USED AT ALL BENDS AND FITTINGS.
2. PROVIDE NO LESS THAN THIRTY (30) INCHES (NO. POLY. W. THIRTY-SIX (36) INCHES (R.O.C.K.) OF COVER FROM TOP OF PIPE TO BOTTOM OF ASPHALT OR TO FINISHED GRADE.
3. ALL WATER LINES AT SEWER CROSSINGS SHALL BE LOCATED ABOVE AND HAVE AN EIGHTEEN (18) INCH VERTICAL SEPARATION FROM THE SEWER PIPE.
4. A MINIMUM HORIZONTAL CLEARANCE OF TEN (10) FEET FOR STORM AND SANITARY SEWERS SHALL BE MAINTAINED BETWEEN THE WATERLINE AND OTHER UTILITIES RUNNING PARALLEL TO THE DESIGNED MAIN.
5. UNLESS OTHERWISE SPECIFIED, ALL WATER LINES SHALL BE ASTM D4739, 6000, CLASS 233 P8 (DN-18) PVC.
6. ALL WATER LINES SHALL BE TESTED AND DEINTEGRATED IN ACCORDANCE WITH AWWA.
7. APPROVED PRIOR TO PAVING.

EROSION PREVENTION AND SEDIMENT CONTROLS

1. A COPY OF ALL STORMWATER RELATED PERMITS SHALL BE POSTED ON-SITE AT ALL TIMES.
2. A COPY OF THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NOTICE OF FILING (NOF) AND RELATED DOCUMENTS SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW UPON REQUEST.
3. THE CONTRACTOR SHALL BE DESIGNATED A CO-PERMITTEE TO THE GENERAL CONSTRUCTION PERMITTING AGENCY (TDEQ) AND SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND CERTIFICATIONS UNDER THE TDEQ ENVIRONMENTAL PROTECTION AGENCY (TDEQ EPA) GENERAL PERMIT.
4. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL PROVIDE SIGNATURES TO THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE CONSTRUCTION SITE.
5. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO INITIAL DISTURBANCE ACTIVITIES OR AS SOON AS PRACTICAL. THE CONTRACTOR SHALL COMPLY WITH THE TERMS OF THE SWPPP AND THE TDEQ GENERAL PERMIT AND SWPPP. THESE SIGNATURES SHALL BE MAINTAINED ON-SITE AT ALL TIMES.
6. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE PROPER SOIL EROSION MEASURES FOR PROTECTION OF ALL ADJOINING ROADS, LANDS, AND STREAMS. REFER TO THE SWPPP AND TDEQ GENERAL PERMIT AND SWPPP FOR REQUIREMENTS.
7. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEANING AND GRUBBING. THE CONTRACTOR SHALL PROVIDE BERMED POINTS WHERE STORM WATER ENTERS A STREAM THAT TRAVERSES THE PROJECT, AND ALL POINTS WHERE STORM WATER ENTERS PORTIONS OF COMPLETED UNDERGROUND PIPING.
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ON-SITE BMP2 AS THE PROJECT PROGRESSES.
9. THE CONTRACTOR SHALL PROVIDE QUALIFIED INSPECTION PERSONNEL TO CONDUCT INSPECTIONS OF ALL EROSION AND SEDIMENT CONTROL MEASURES. THE RESULTS OF THESE INSPECTIONS SHALL BE KEPT AND MADE AVAILABLE TO THE OWNER, THE OWNERS REPRESENTATIVE OR THE JURISDICTIONAL AGENCIES IF REQUESTED.
10. A MINIMUM ALL CONTROLS ON THE SITE SHALL BE INSPECTED AT LEAST TWICE PER CALENDAR WEEK, AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 1/2" OF RAIN.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL TEMPORARY AND PERMANENT CONTROL PRACTICES TO ENSURE CONTINUED PERFORMANCE OF THE INTENDED FUNCTION. SHOULD A STRUCTURE OR FEATURE BECOME DAMAGED, THE CONTRACTOR SHALL REPAIR OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
12. THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY BMPs REMOVED. THE AUTHORIZED SITE REPRESENTATIVE MAY FILE A NOTICE OF TERMINATION (NOTI) WITH TDEQ.

NO.	DATE	DESCRIPTION	BY	CHK

MID-TEN ENGINEERING CO.
 405 KENNEDY ST. SUITE 200
 HARTSVILLE, TN 37057

L & P PROPERTIES DEVELOPERS
 GOOSE CREEK SUBDIVISION
 HARTSVILLE, TENNESSEE

GENERAL NOTES



DATE	BY	DESCRIPTION
06/20/18	J.D.C.	E.J.W.
08/13/18	E.J.W.	2/28/22
08/13/18	NONE	859901

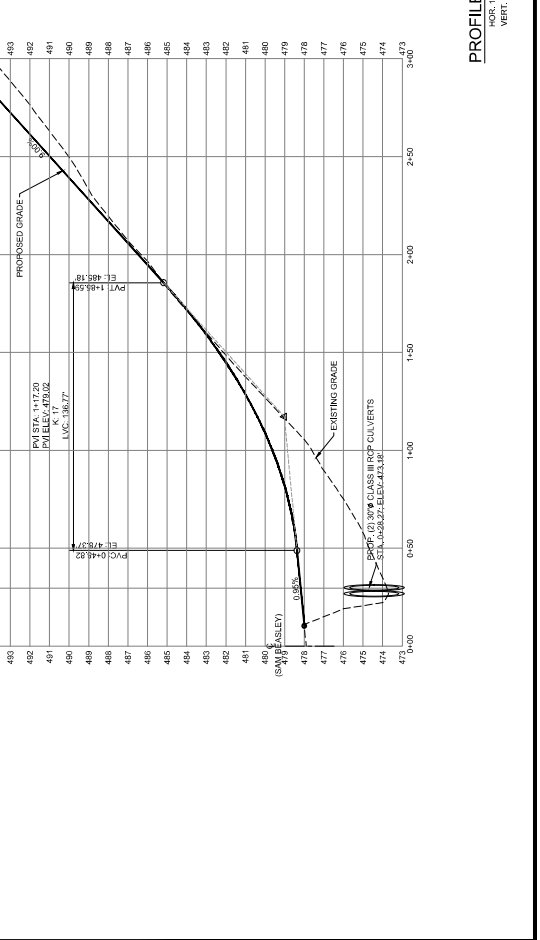
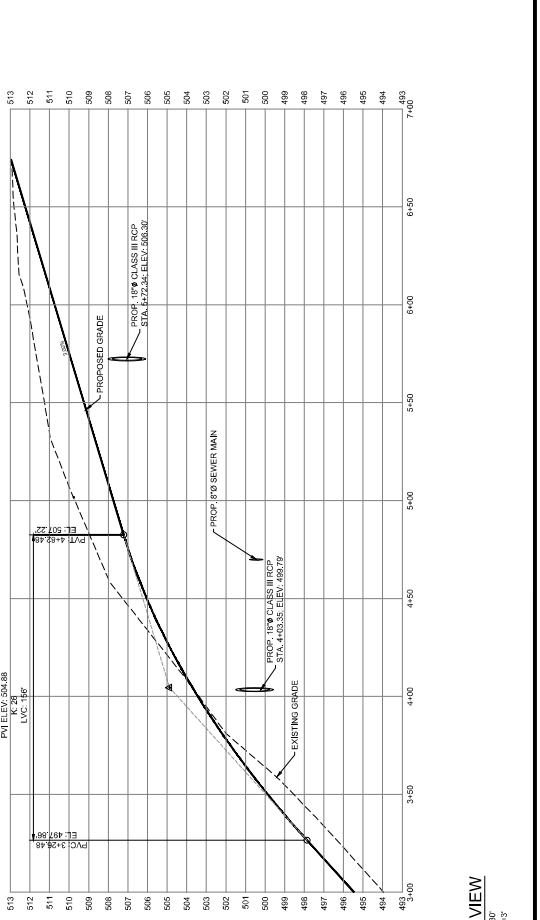
DATE	02/28/25
BY	J.D.C.
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	



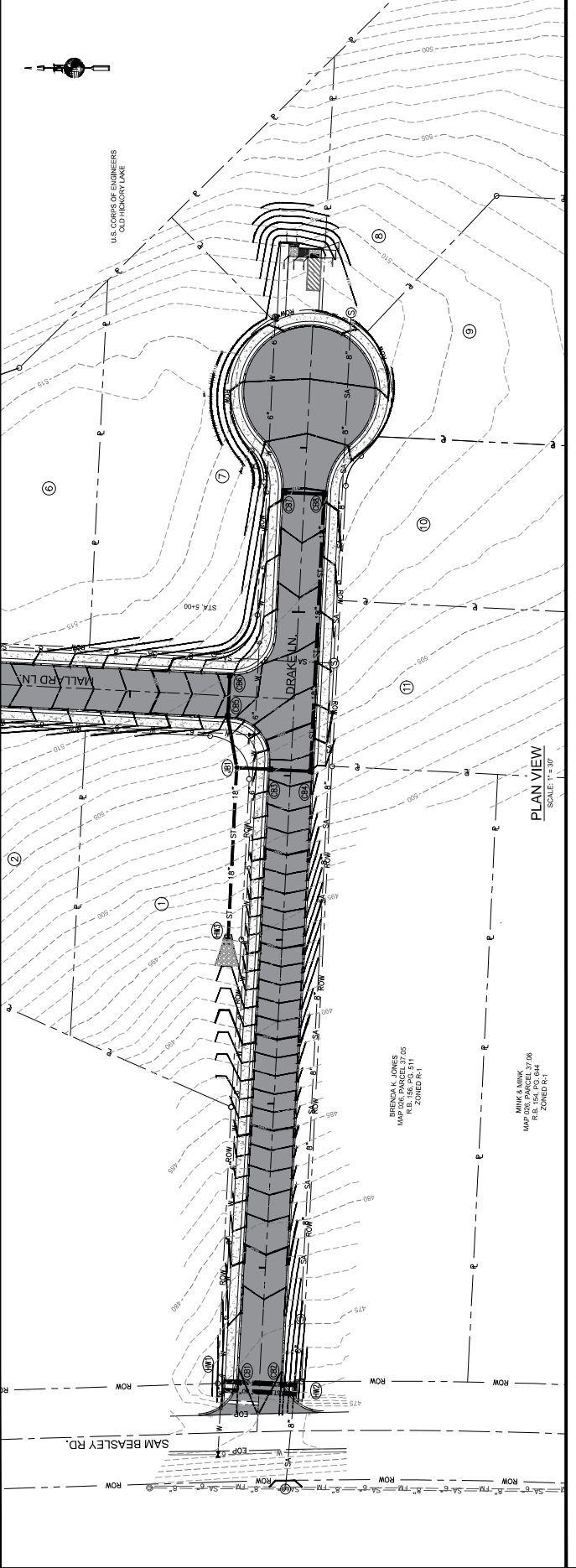
L & P PROPERTIES DEVELOPERS
 CONTRACTORS, INC.
 GOOSE CREEK SUBDIVISION
 HARTSVILLE, TENNESSEE

MID - TENN
 ENGINEERING CO.
 645 HERRINGTON DR. SUITE 200
 LAVERGNE, TN 37086-5383

AS NOTED	859501
DATE	02/28/25
BY	J.D.C.
DESCRIPTION	
NO.	
DATE	
BY	
DESCRIPTION	
NO.	



PROFILE VIEW
 HOR. 1"=30'
 VERT. 1"=3'

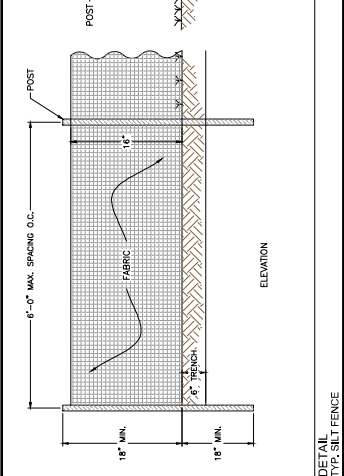
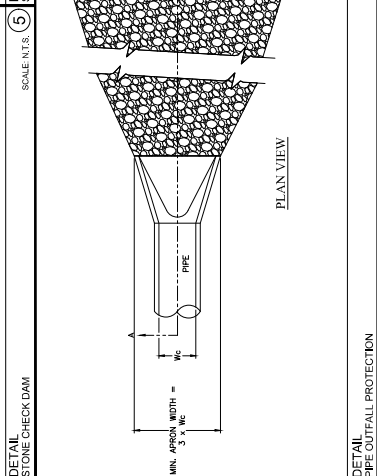
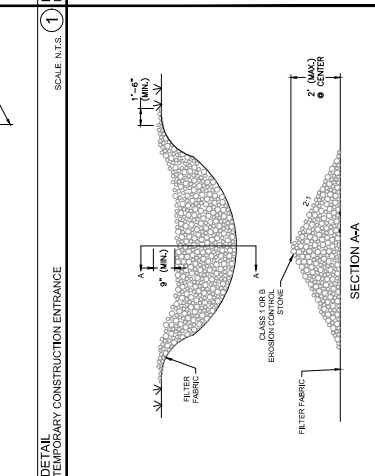
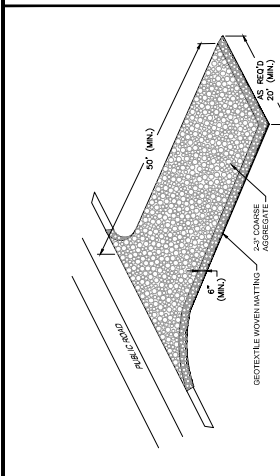
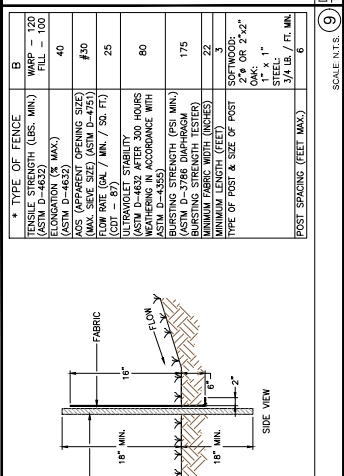
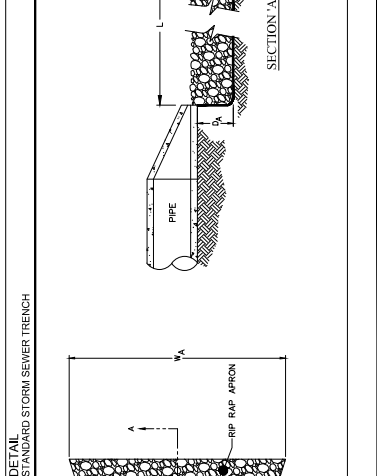
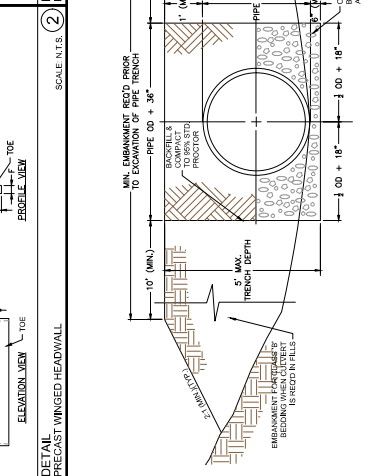
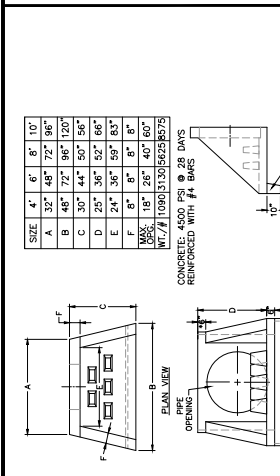
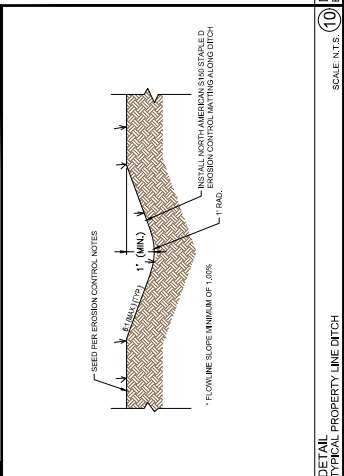
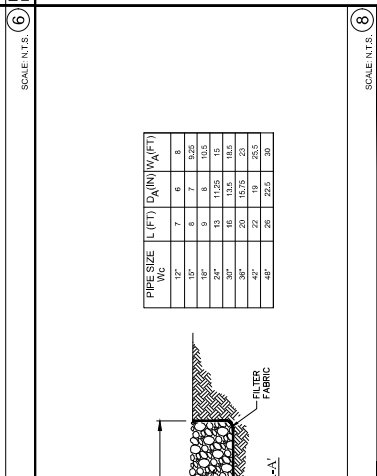
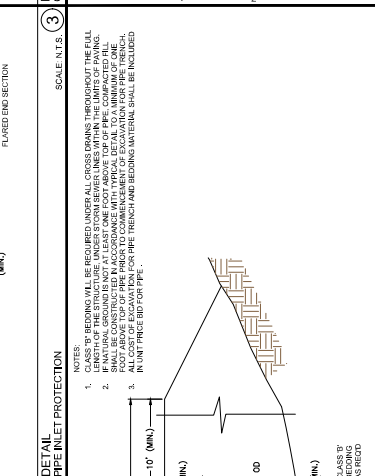
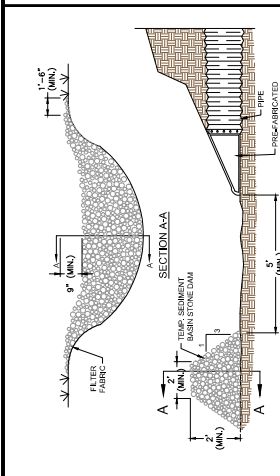
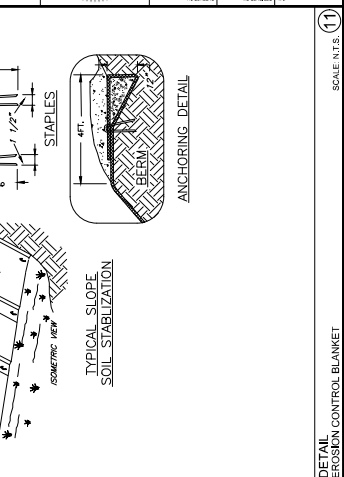
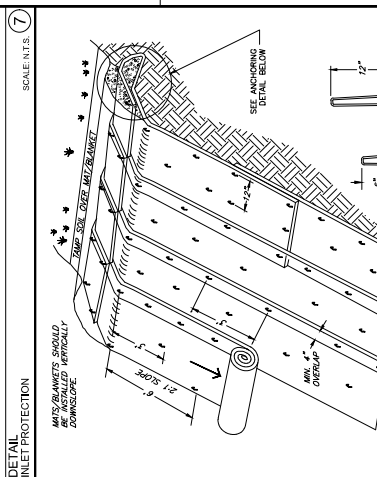
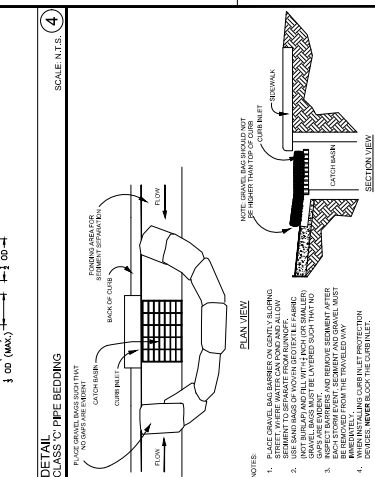
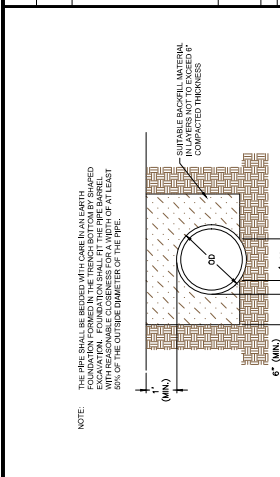


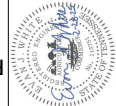
PLAN VIEW
 SCALE: 1" = 30'

BRENDA K. JONES
 MAP 006, PARCEL 37.25
 P.L. 154, P.O. 647.05
 ZONED R-1

MINK & MINK
 MAP 006, PARCEL 37.25
 P.L. 154, P.O. 647.05
 ZONED R-1







DATE	N.T.S.	SHEET
02/28/25	E.J.W.	C5.0
BY	J.D.C.	
CHKD		

C5.0
SHEET

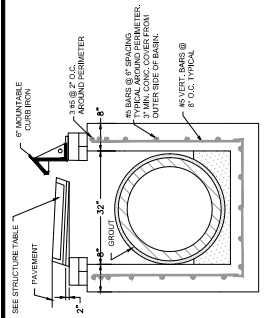
ROADWAY & DRAINAGE
DETAILS

L & E PROPERTIES DEVELOPERS
CONTRACTORS, INC.
GOOSE CREEK SUBDIVISION
HARTSVILLE, TENNESSEE

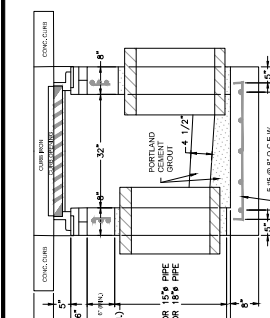
MID - TENN
ENGINEERING CO.
648 HERRINGTON BLVD. SUITE 200
HARTSVILLE, TN 37077 (615) 696-8980

NO.	DATE	DESCRIPTION	BY	CHKD

INTENTIONALLY
LEFT BLANK



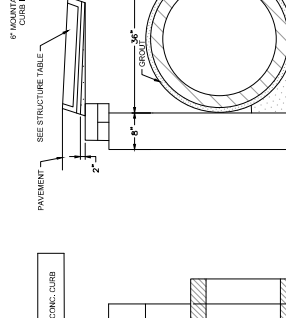
SECTION 1
EXTRUDED 6" MOUNTABLE CONCRETE CURB
SCALE: N.T.S.



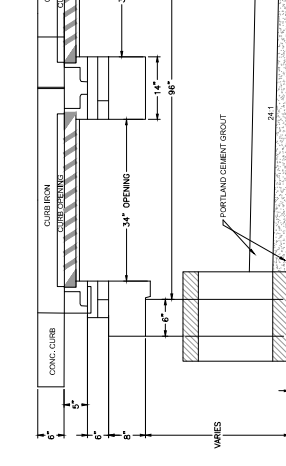
SECTION 2
6" MOUNTABLE PRECAST CATCH BASIN
SCALE: N.T.S.



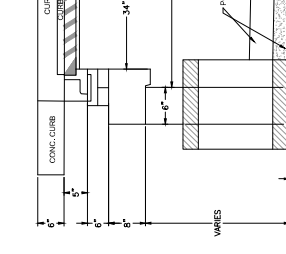
SECTION 3
6" MOUNTABLE CONCRETE CURB
SCALE: N.T.S.



SECTION 4
6" MOUNTABLE PRECAST CATCH BASIN
SCALE: N.T.S.



SECTION 1
EXTRUDED 6" MOUNTABLE CONCRETE CURB
SCALE: N.T.S.



SECTION 2
6" MOUNTABLE PRECAST CATCH BASIN
SCALE: N.T.S.

AS NOTED	DATE	BY	CHK
E.J.W.	02/28/25		
J.D.C.			

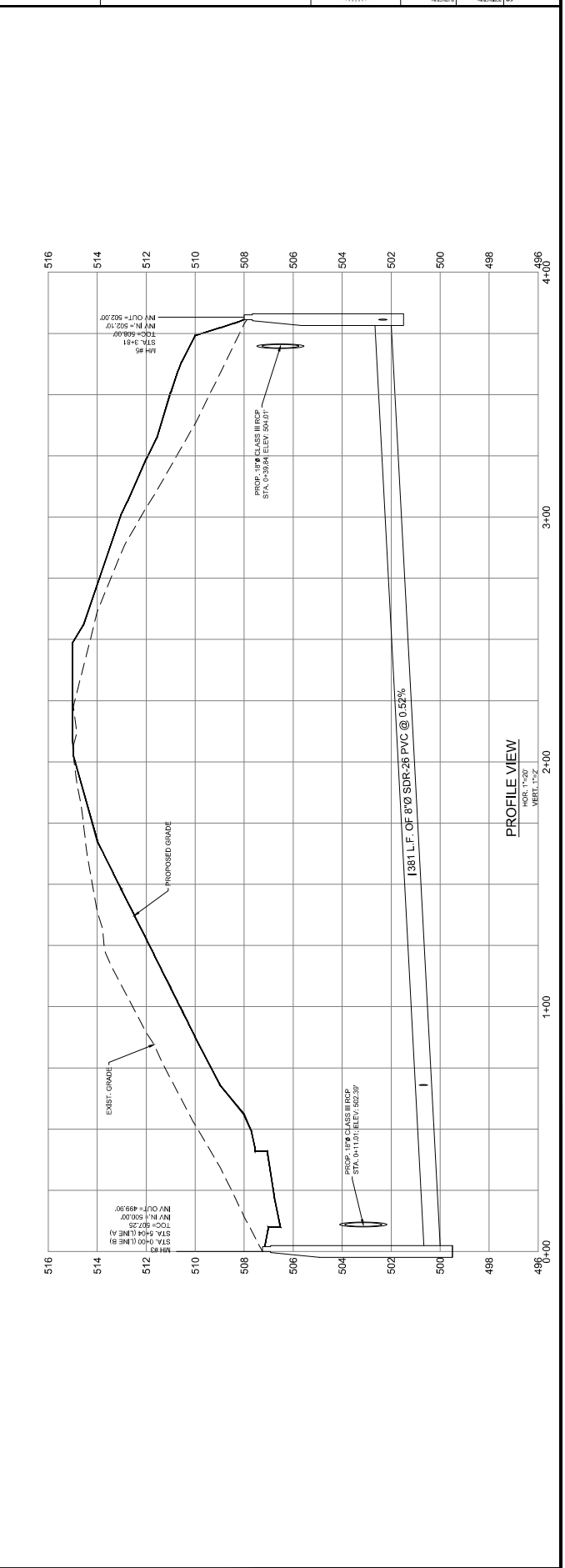
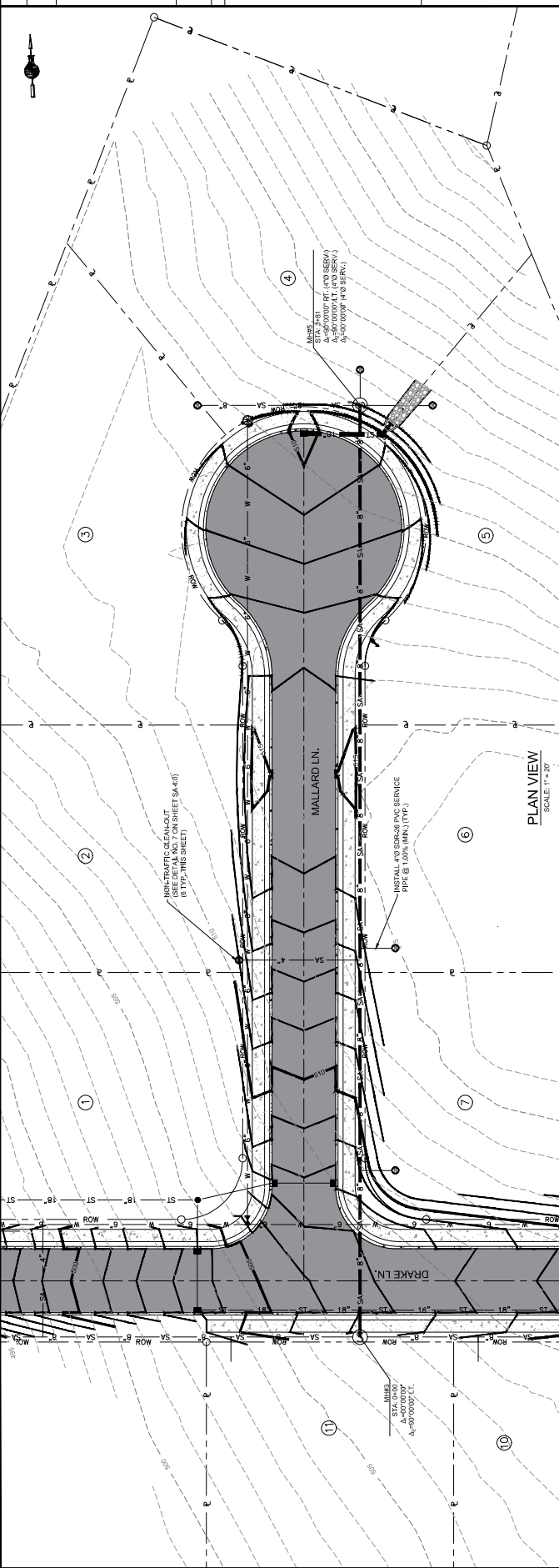


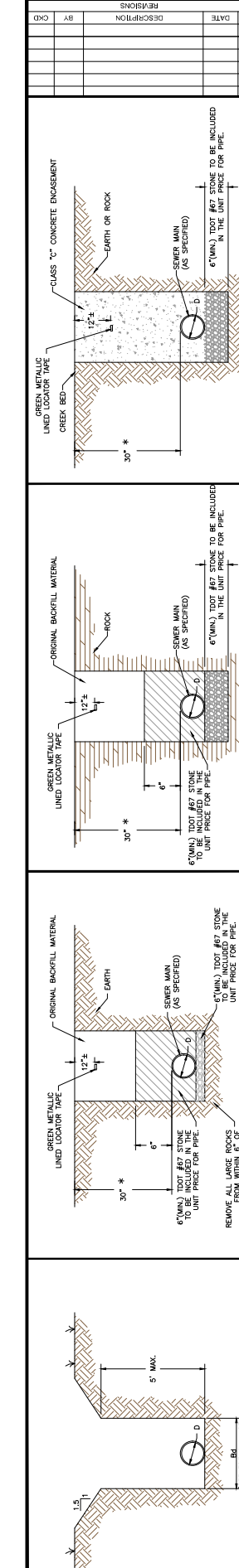
SEWER LINE B
STA. 0+00 - STA. 3+81
PROFILE
PROP. PLAN AND

L & E PROPERTIES DEVELOPERS
CONTRACTORS, INC.
GOOSE CREEK SUBDIVISION
HARTSVILLE, TENNESSEE

MID - TENN
ENGINEERING CO.
LAVELLE, TN 37095-5385
414.888.1111

REVISIONS	
NO.	DESCRIPTION

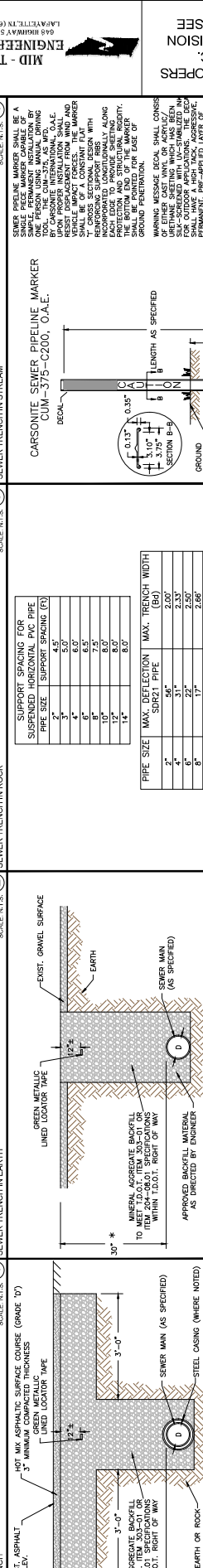




① SCALE: N.T.S.

DETAIL EXCAVATION TRENCH IN BITUMINOUS SURFACE

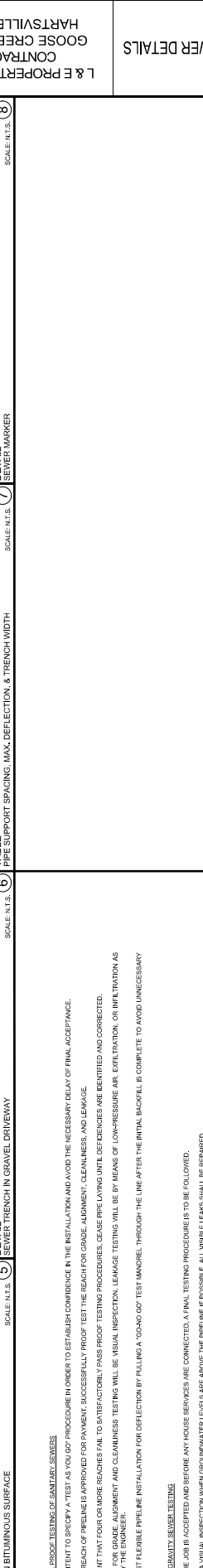
* MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.



② SCALE: N.T.S.

DETAIL SEWER TRENCH IN EARTH

* MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.



③ SCALE: N.T.S.

DETAIL SEWER TRENCH IN ROCK

* MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.



④ SCALE: N.T.S.

DETAIL SEWER TRENCH IN STREAM

* MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

⑤ SCALE: N.T.S.

TABLE PIPE SUPPORT SPACING, MAX. DEFLECTION & TRENCH WIDTH

PIPE SIZE	MAX. DEFLECTION	TRENCH WIDTH
2"	96"	2.00'
4"	24"	2.50'
6"	17"	2.66'
10"	13"	2.83'
14"	10"	3.16'

⑥ SCALE: N.T.S.

DETAIL SEWER TRENCH IN GRAVEL DRIVEWAY

* MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

⑦ SCALE: N.T.S.

DETAIL SEWER MARKER

SEWER PIPELINE MARKER SHALL BE A SINGLE PEG MARKER CAPABLE OF WITHSTANDING TRAFFIC LOADS. ONE PERSON USING MANUAL DRIVING BY CARBONITE INTERNATIONAL, O.A.L. RESIST DISPLACEMENT FROM WIND AND SHALL BE OF A CONSTANT DIA. 7" CROSS SECTIONAL DESIGN WITH INCORPORATED UNIDIRECTIONALLY ALONG PROTECTION AND STRUCTURAL INTEGRITY. SHALL BE PAINTED FOR EASY OF GROUND PENETRATION.

WARNING MESSAGE BECAL SHALL CONSIST OF A MESSAGE WHICH HAS BEEN LAMINATED FOR OUTDOOR APPLICATIONS. THE MESSAGE SHALL BE PERMANENT, PRE-APPLIED LAYER OF PRESSURE-SENSITIVE ADHESIVE OVER LAMINATING FILM, BUILT OVER

⑧ SCALE: N.T.S.

DETAIL SEWER MARKER

SUPPORT SPACING FOR SUSPENDED HORIZONTAL PVC PIPE

PIPE SIZE	SUPPORT SPACING (FT)
2"	4.5'
4"	6.0'
6"	7.5'
10"	8.0'
14"	8.0'

⑨ SCALE: N.T.S.

DETAIL SEWER TESTING REQUIREMENTS

FIELD TEST - INITIAL PROBE TESTING OF SEWER SERVICES

- THIS IS THE INTENT TO SPECIFY A TEST AS YOU GO PROCEDURE IN ORDER TO ESTABLISH CONFIDENCE IN THE INSTALLATION AND AVOID THE NECESSARY DELAY OF FINAL ACCEPTANCE.
- BEFORE A REACH OF PIPELINE IS APPROVED FOR PAYMENT, SUCCESSFULLY PASS PROOF TESTING PROCEDURES. CEASE PIPE LAYING UNTIL DEFICIENCIES ARE IDENTIFIED AND CORRECTED.
- IN THE EVENT THAT FOUR OR MORE REACHES FAIL TO SATISFACTORILY PASS PROOF TESTING PROCEDURES, CEASE PIPE LAYING UNTIL DEFICIENCIES ARE IDENTIFIED AND CORRECTED.
- THE BASIS FOR GRADE, ALIGNMENT AND CLEANLINESS TESTING WILL BE VISUAL INSPECTION. LEAKAGE TESTING WILL BE BY MEANS OF LOW-PRESSURE AIR, EXFILTRATION, OR INFILTRATION AS DEEMED BY THE ENGINEER.
- PROOF TEST FLEXIBLE PIPELINE INSTALLATION FOR DEFLECTION BY PULLING A 100-AND 60" TEST MANDREL THROUGH THE LINE AFTER THE INITIAL BACKFILL IS COMPLETE TO AVOID UNNECESSARY DISBURS.

FIELD TEST - FINAL GRAVITY SEWER TESTING

- BEFORE THE JOB IS ACCEPTED AND BEFORE ANY HOUSE SERVICES ARE CONNECTED, A FINAL TESTING PROCEDURES TO BE FOLLOWED.
- PERFORM A VISUAL INSPECTION WHEN GROUNDWATER LEVELS ARE ABOVE THE PIPELINE IF POSSIBLE. ALL VISIBLE LEAKS SHALL BE REPAIRED.
- IF THERE IS EVIDENCE OF INFILTRATION, MAKE MEASUREMENT WITH SUITABLE PIPE WIRES REPRESENTATIVE OF THE HIGHEST ANNUAL LEVEL. THE ENTIRE CONTINUOUS SECTION SHALL BE APPROVED FOR LEAKAGE.
- IF THE FLOW THROUGH THE LOWER MOST MANHOLE OF A CONTINUOUS SECTION OF SEWER DOES NOT EXCEED 25 GALLONS/DAY/INCH/MI OF PIPELINE AND THE GROUNDWATER LEVEL IS REPRESENTATIVE OF THE HIGHEST ANNUAL LEVEL, THE ENTIRE CONTINUOUS SECTION SHALL BE APPROVED FOR LEAKAGE.
- THE LEAKAGE TEST WILL BE CONDUCTED WITH ALL LINES CONNECTED (INCLUDING SERVICE LINES).
- IF THE APPARENT INFILTRATION RATE EXCEEDS 25 GALLONS/DAY/INCH/MI, THEN TAKE ADDITIONAL WIRE MEASUREMENTS TO ISOLATE THOSE SECTIONS LEAKING.
- ANY SINGLE REACH OF PIPELINE WHICH EXHIBITS AN APPARENT INFILTRATION RATE IN EXCESS OF 25 GALLONS/DAY/INCH/MI WILL NOT BE ACCEPTED AND ALL LEAKS WILL BE LOCATED AND CORRECTED.
- IF IT IS NOT PRACTICAL TO WAIT FOR GROUNDWATER LEVELS THAT ARE REPRESENTATIVE OF THE HIGHEST ANNUAL LEVEL, THE CONTRACTOR MAY REQUEST APPROVAL ON THE BASIS OF A LOW PRESSURE AIR EXFILTRATION (OR OTHER APPROVED EXFILTRATION) TEST.
- SUCH TESTS IF APPROVED BY THE ENGINEER, WILL BE CONDUCTED IN ACCORDANCE WITH ASTM C488 OR LATEST REVISION.
- WHEN AN EXFILTRATION TEST IS USED AS A SUBSTITUTE FOR INFILTRATION, CORRECT ALL CONDITIONS THAT ARE POTENTIAL SOURCES OF FILTRATION.
- IF FLEXIBLE PIPE IS USED, PULL AN APPROVED 100-AND 60" DEFLECTION MANDREL OF 56 PERCENT (55A) PIPE BOREMETER THROUGH ALL REACHES OF GRAVITY SEWER MAIN. THIS TEST SHALL BE CONDUCTED NO SOONER THAN 24 HOURS AFTER COMPLETION OF BACKFILL OF THE TESTED REACH, ANY PIPE NOT PASSING THE MANDREL SHALL BE REPLACED AND RETESTED.
- THE MAXIMUM ALLOWABLE DEFLECTION IS FIVE PERCENT (5%).
- OWNER MAY TELEVEH LINE PRIOR TO FINAL ACCEPTANCE.

LOW PRESSURE AIR EXFILTRATION TEST METHOD - PVC, DUCTILE IRON, LIFE, AND CONCRETE GRAVITY SEWER

- CALCULATE THE PRESSURE DROP AS THE NUMBER OF MINUTES FOR THE AIR PRESSURE TO DROP FROM A STABILIZED PRESSURE OF 3-1/2 TO 2-1/2 PSI.
- TIMES FOR WIDED PIPE SIZE OF VARYING LENGTHS SHOULD BE CALCULATED AS DESCRIBED IN ASTM C488 USING FORMULA: $t = 1000 (D^2/0.020)$.
- LENGTHS OF SECTION UNDER TEST SHALL NOT EXCEED 300 LINEAR FEET.
- THE FOLLOWING ITEMS ARE FOR ONE PIPE SIZE ONLY.

NO.	DATE	DESCRIPTION	BY	CHK

REVISIONS

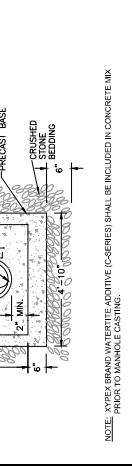
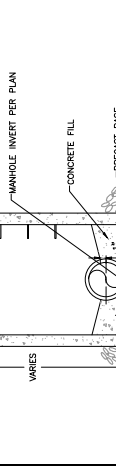
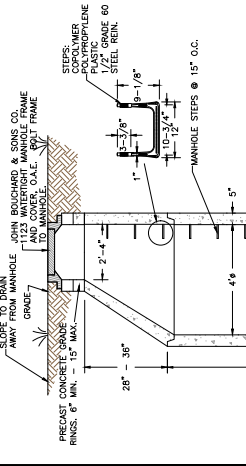
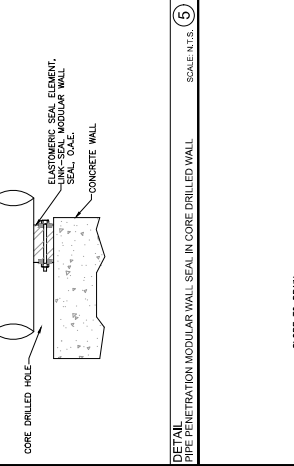
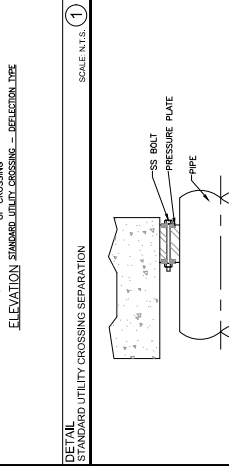
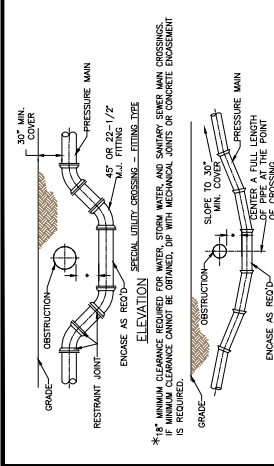
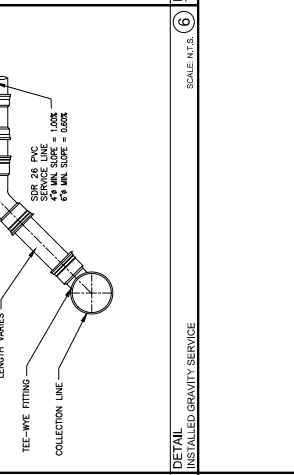
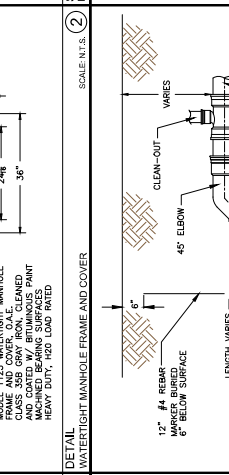
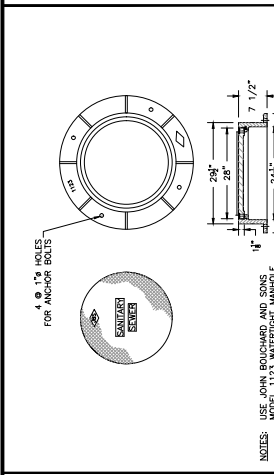
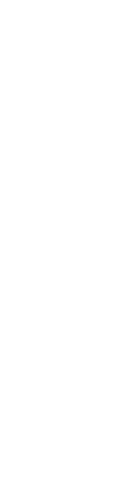
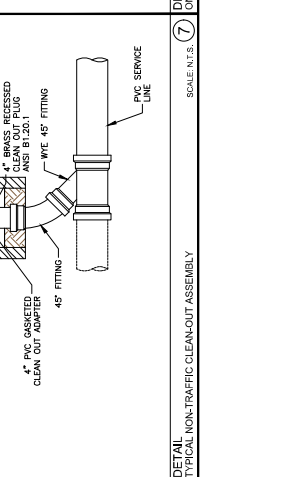
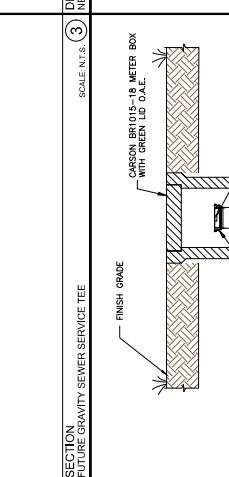
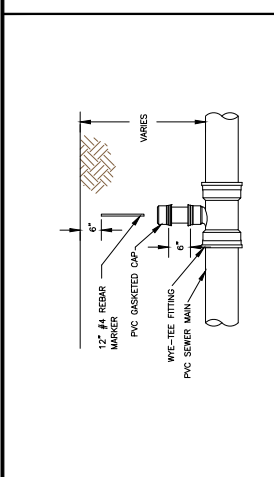
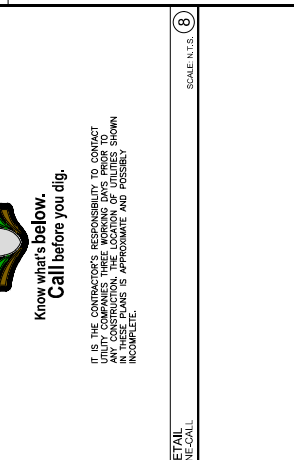
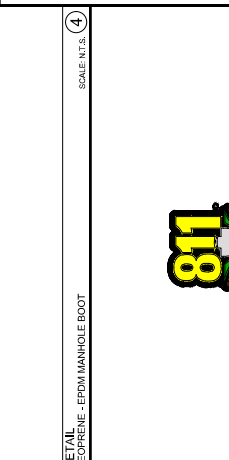
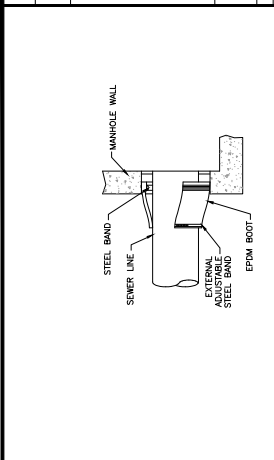
L & P PROPERTIES DEVELOPERS
 CONTRACTORS, INC.
 GOOSE CREEK SUBDIVISION
 HARTSVILLE, TENNESSEE

STANDARD SEWER DETAILS



DATE	NONE
BY	J.D.C.
CHK	J.D.C.
PROJECT	8596501

SHEET
SA 4.0



NOTE: *18\"/>

NOTE: *18\"/>

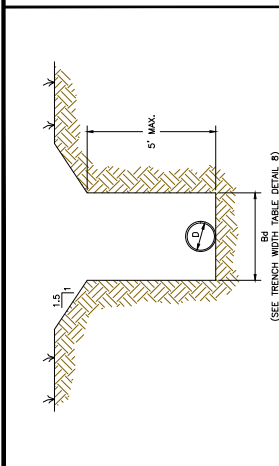
NOTE: *18\"/>

NOTE: *18\"/>

NOTE: *18\"/>

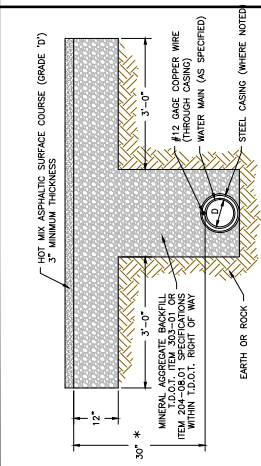
NOTE: *18\"/>

NOTE: *18\"/>



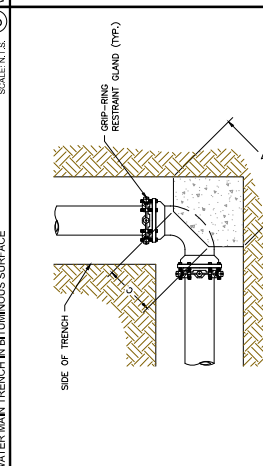
DETAIL 1
EXCAVATION TRENCH

SCALE: N.T.S.



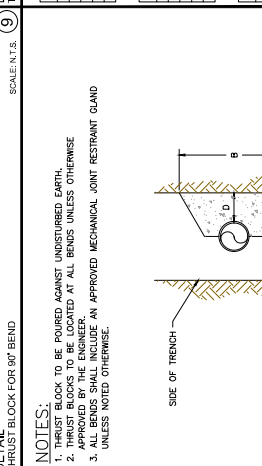
DETAIL 2
WATER MAIN TRENCH IN EARTH

SCALE: N.T.S.



DETAIL 3
WATER MAIN TRENCH IN GRAVEL DRIVEWAY

SCALE: N.T.S.



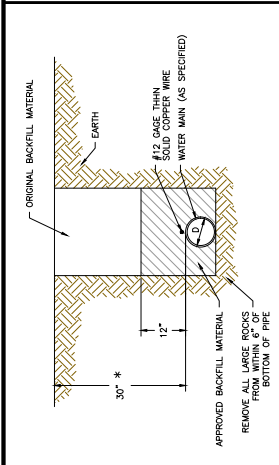
DETAIL 4
WATER MAIN TRENCH IN BITUMINOUS SURFACE

SCALE: N.T.S.



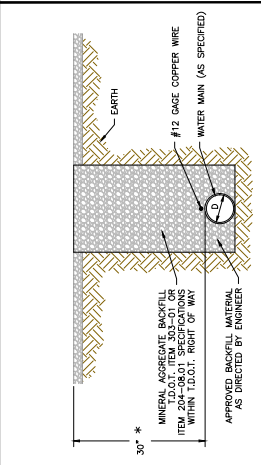
DETAIL 5
WATER MAIN TRENCH IN ROCK

SCALE: N.T.S.



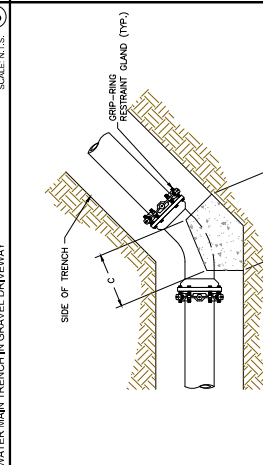
DETAIL 6
WATER MAIN TRENCH IN EARTH

SCALE: N.T.S.



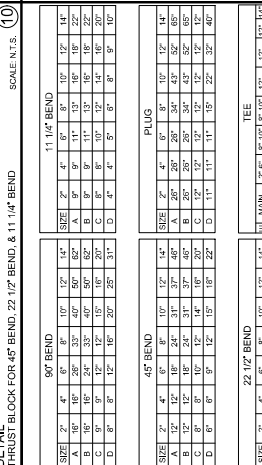
DETAIL 7
WATER MAIN TRENCH IN GRAVEL DRIVEWAY

SCALE: N.T.S.



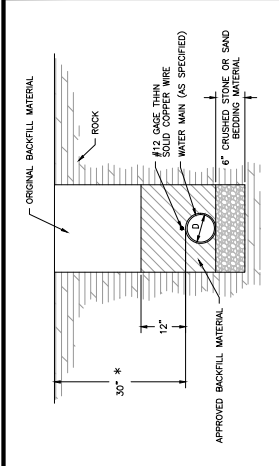
DETAIL 8
WATER MAIN TRENCH IN BITUMINOUS SURFACE

SCALE: N.T.S.



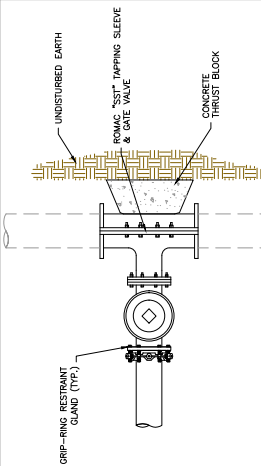
DETAIL 9
WATER MAIN TRENCH IN ROCK

SCALE: N.T.S.



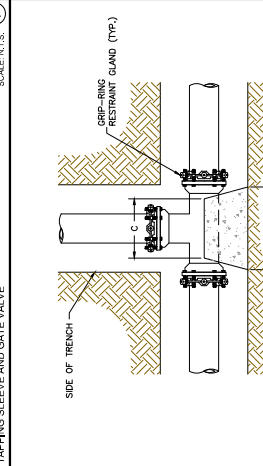
DETAIL 10
WATER MAIN TRENCH IN EARTH

SCALE: N.T.S.



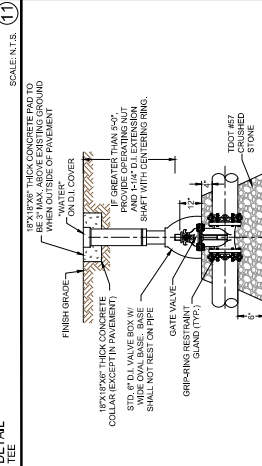
DETAIL 11
WATER MAIN TRENCH IN GRAVEL DRIVEWAY

SCALE: N.T.S.



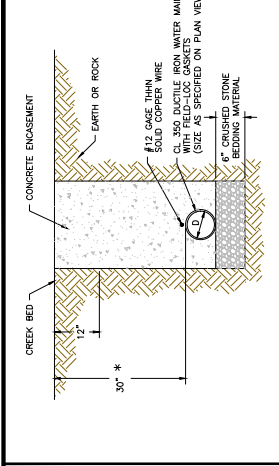
DETAIL 12
WATER MAIN TRENCH IN BITUMINOUS SURFACE

SCALE: N.T.S.



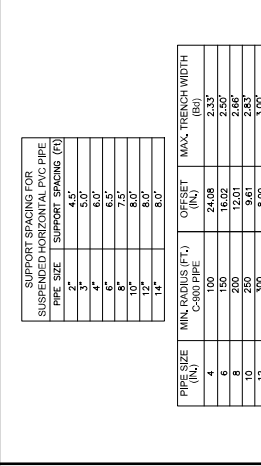
DETAIL 13
WATER MAIN TRENCH IN ROCK

SCALE: N.T.S.



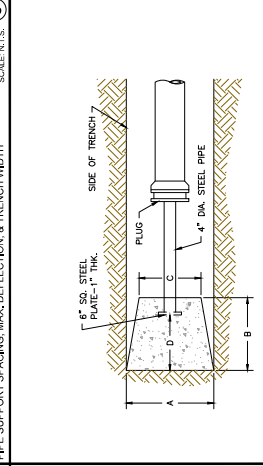
DETAIL 14
WATER MAIN TRENCH IN EARTH

SCALE: N.T.S.



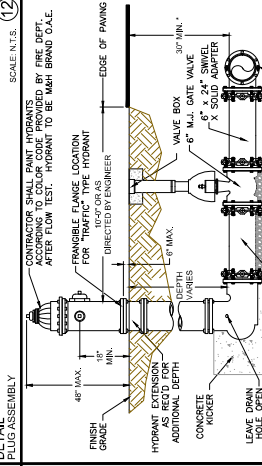
DETAIL 15
WATER MAIN TRENCH IN GRAVEL DRIVEWAY

SCALE: N.T.S.



DETAIL 16
WATER MAIN TRENCH IN BITUMINOUS SURFACE

SCALE: N.T.S.



DETAIL 17
WATER MAIN TRENCH IN ROCK

SCALE: N.T.S.

NO.	DATE	DESCRIPTION	BY	CMD

REVISIONS

MID - TENN
ENGINEERING CO.
LAFAYETTE, TN 37133-6668-2845

L & E PROPERTIES DEVELOPERS
CONTRACTORS, INC.
GOOSE CREEK SUBDIVISION
HARTSVILLE, TENNESSEE



AS-NOTED
E.J.W.
02/28/25
E.J.W.
J.D.C.
859501

W 2.0
SHEET

MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

PIPE SIZE	MIN. RADIUS (FT.)	OFFSET (IN.)	MAX. TRENCH WIDTH (BD)
4	100	24.08	2.33'
6	200	12.01	2.68'
8	300	9.61	2.83'
10	400	8.00	3.00'

CONCRETE ENGAGEMENT
#12 GAGE THIN SOLID COPPER WIRE WITH FIELD-LOC GASKETS (SIZE AS SPECIFIED ON PLAN VIEW)
6" CRUSHED STONE BEDDING MATERIAL

CONTRACTOR SHALL PAINT HYDRANTS COLOR CODE PROVIDED BY FIRE DEPT. ACCESS PLAN TEST. HYDRANT TO BE UNDER BRASS GALE.
FRANGIBLE FLANGE LOCATION FOR "TRAFFIC" TYPE HYDRANT DIRECTED BY ENGINEERFINISH GRADE
HYDRANT EXTENSION ADDITIONAL DEPTH
CONCRETE ANCHOR
LEAVE DRAIN HOLE OPEN
6" M.A. GATE VALVE 3/16" MIN. VARIES
6" X 24" SWIVEL ADAPTER
DUCTILE IRON M.A. TEE
6" X 24" SWIVEL X SOLID ADAPTER
DOE #7 STONE

MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

UNDISTURBED EARTH
ROMAC "SST" TAPPING SLEEVE & GATE VALVE
CONCRETE THRUST BLOCK

GRIP-RING RESTRAINT GLAND (TYP.)
SIDE OF TRENCH
GRIP-RING RESTRAINT GLAND (TYP.)

18" X 18" THICK CONCRETE PAD TO BE PLACED ON EXISTING GROUND
"WATER"
FINISH GRADE
7" O.D. I COVER
6" X 6" X 1/2" THIN CONCRETE COLLAR (EXCEPT IN WOODEN)
STD. OF 1/2" VALVE BOX W/ WIRE OVAL BASE. BASE SHALL NOT REST ON PIPE
GATE VALVE
GRIP-RING RESTRAINT GLAND (TYP.)
GRIP-RING RESTRAINT GLAND (TYP.)
DOE #7 STONE

MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

APPROVED BACKFILL MATERIAL REMOVE ALL LARGE ROCKS FROM WITHIN 6" OF BOTTOM OF PIPE

MINIMUM APPROVED BACKFILL LOC. (ITEM 204-01) OR ITEM 204-08.01 SPECIFICATIONS WITHIN 12.01'. RIGHT OF WAY APPROVED BACKFILL MATERIAL AS DIRECTED BY ENGINEER

GRIP-RING RESTRAINT GLAND (TYP.)
SIDE OF TRENCH
GRIP-RING RESTRAINT GLAND (TYP.)

CONCRETE THRUST BLOCK FOR 48" BEND, 22 1/2" BEND, & 11 1/4" BEND

CONCRETE THRUST BLOCK SIZES FOR BENDS & FITTINGS

SIZE	90° BEND				11 1/4° BEND				22 1/2° BEND				45° BEND				PLUG				
	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
2"	4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"
4"	6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"
6"	8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"
8"	10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"
10"	12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"
12"	14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"
14"	16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"
16"	18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"
18"	20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	60"
20"	22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	60"	62"
22"	24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	60"	62"	64"
24"	26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	60"	62"	64"	66"
26"	28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	60"	62"	64"	66"	68"
28"	30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	60"	62"	64"	66"	68"	70"
30"	32"	34"	36"	38"	40"	42"	44"	46"	48"	50"	52"	54"	56"	58"	60"	62"	64"	66"	68"	70"	72"

SEE TABLE 14 THIS SHEET

MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

APPROVED BACKFILL MATERIAL REMOVE ALL LARGE ROCKS FROM WITHIN 6" OF BOTTOM OF PIPE

GRIP-RING RESTRAINT GLAND (TYP.)
SIDE OF TRENCH
GRIP-RING RESTRAINT GLAND (TYP.)

CONTRACTOR SHALL PAINT HYDRANTS COLOR CODE PROVIDED BY FIRE DEPT. ACCESS PLAN TEST. HYDRANT TO BE UNDER BRASS GALE.
FRANGIBLE FLANGE LOCATION FOR "TRAFFIC" TYPE HYDRANT DIRECTED BY ENGINEERFINISH GRADE
HYDRANT EXTENSION ADDITIONAL DEPTH
CONCRETE ANCHOR
LEAVE DRAIN HOLE OPEN
6" M.A. GATE VALVE 3/16" MIN. VARIES
6" X 24" SWIVEL ADAPTER
DUCTILE IRON M.A. TEE
6" X 24" SWIVEL X SOLID ADAPTER
DOE #7 STONE

MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

UNDISTURBED EARTH
ROMAC "SST" TAPPING SLEEVE & GATE VALVE
CONCRETE THRUST BLOCK

GRIP-RING RESTRAINT GLAND (TYP.)
SIDE OF TRENCH
GRIP-RING RESTRAINT GLAND (TYP.)

18" X 18" THICK CONCRETE PAD TO BE PLACED ON EXISTING GROUND
"WATER"
FINISH GRADE
7" O.D. I COVER
6" X 6" X 1/2" THIN CONCRETE COLLAR (EXCEPT IN WOODEN)
STD. OF 1/2" VALVE BOX W/ WIRE OVAL BASE. BASE SHALL NOT REST ON PIPE
GATE VALVE
GRIP-RING RESTRAINT GLAND (TYP.)
GRIP-RING RESTRAINT GLAND (TYP.)
DOE #7 STONE

MINIMUM DEPTH OF COVER SHALL BE 36" ON STATE RIGHTS-OF-WAY.

APPROVED BACKFILL MATERIAL REMOVE ALL LARGE ROCKS FROM WITHIN 6" OF BOTTOM OF PIPE

MINIMUM APPROVED BACKFILL LOC. (ITEM 204-01) OR ITEM 204-08.01 SPECIFICATIONS WITHIN 12.01'. RIGHT OF WAY APPROVED BACKFILL MATERIAL AS DIRECTED BY ENGINEER

GRIP-RING RESTRAINT GLAND (TYP.)
SIDE OF TRENCH
GRIP-RING RESTRAINT GLAND (TYP.)

CONCRETE THRUST BLOCK FOR 48" BEND, 22 1/2" BEND, & 11 1/4" BEND

CONCRETE THRUST BLOCK SIZES FOR BENDS & FITTINGS

SEE TABLE 14 THIS SHEET

DATE	8/28/25	AS-NOTED	859501
BY	E.J.W.	DATE	02/28/25
BY	J.D.C.	DATE	

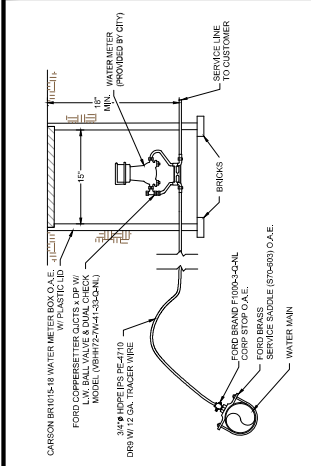


STANDARD WATERLINE
DETAILS

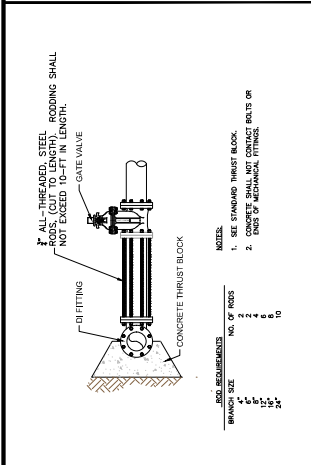
L & E PROPERTIES DEVELOPERS
CONTRACTORS, INC.
GOOSE CREEK SUBDIVISION
HARTSVILLE, TENNESSEE

MID - TENN
ENGINEERING CO.
LAFAYETTE TN (615) 666-8845

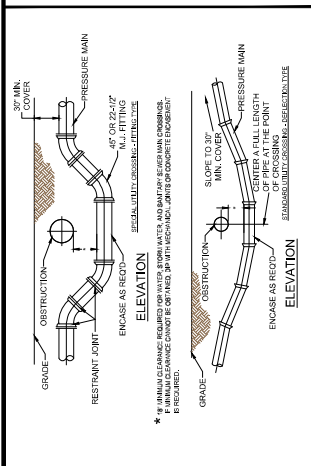
NO.	DATE	DESCRIPTION	BY	CHKD



① TYPICAL WATER METER ASSEMBLY (SHORT TAP)
SCALE: N.T.S.



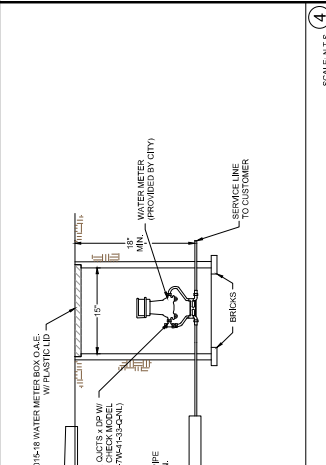
② STANDARD VALVE ROODING
SCALE: N.T.S.



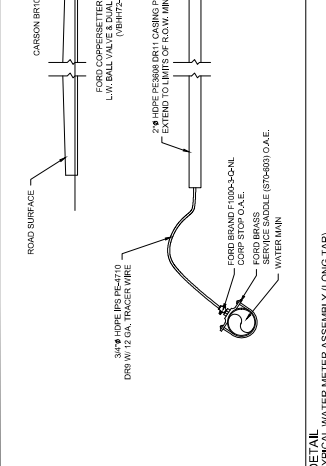
③ STANDARD UTILITY CROSSING
SCALE: N.T.S.



④ TYPICAL WATER METER ASSEMBLY (LONG TAP)
SCALE: N.T.S.



⑤ WATER LINE LEAKAGE TESTS
SCALE: N.T.S.



⑥ WATER LINE PRESSURE TESTS
SCALE: N.T.S.

WATER LINE LEAKAGE TESTS

- CONDUCT A LEAKAGE TEST WITH THE PRESSURE TEST.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.

WATER LINE PRESSURE TESTS

- CONDUCT A PRESSURE TEST WITH THE PRESSURE TEST.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.

WATER LINE LEAKAGE TESTS

- CONDUCT A LEAKAGE TEST WITH THE PRESSURE TEST.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.

WATER LINE PRESSURE TESTS

- CONDUCT A PRESSURE TEST WITH THE PRESSURE TEST.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.

WATER LINE LEAKAGE TESTS

- CONDUCT A LEAKAGE TEST WITH THE PRESSURE TEST.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE LEAKAGE TEST IS NOT SUCCESSFUL, THE LEAKAGE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.

WATER LINE PRESSURE TESTS

- CONDUCT A PRESSURE TEST WITH THE PRESSURE TEST.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.
- IF THE PRESSURE TEST IS NOT SUCCESSFUL, THE PRESSURE TEST SHALL BE REPEATED AT THE POINT OF LEAKAGE.

NOTES TESTING PROCEDURES