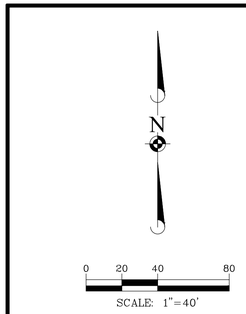
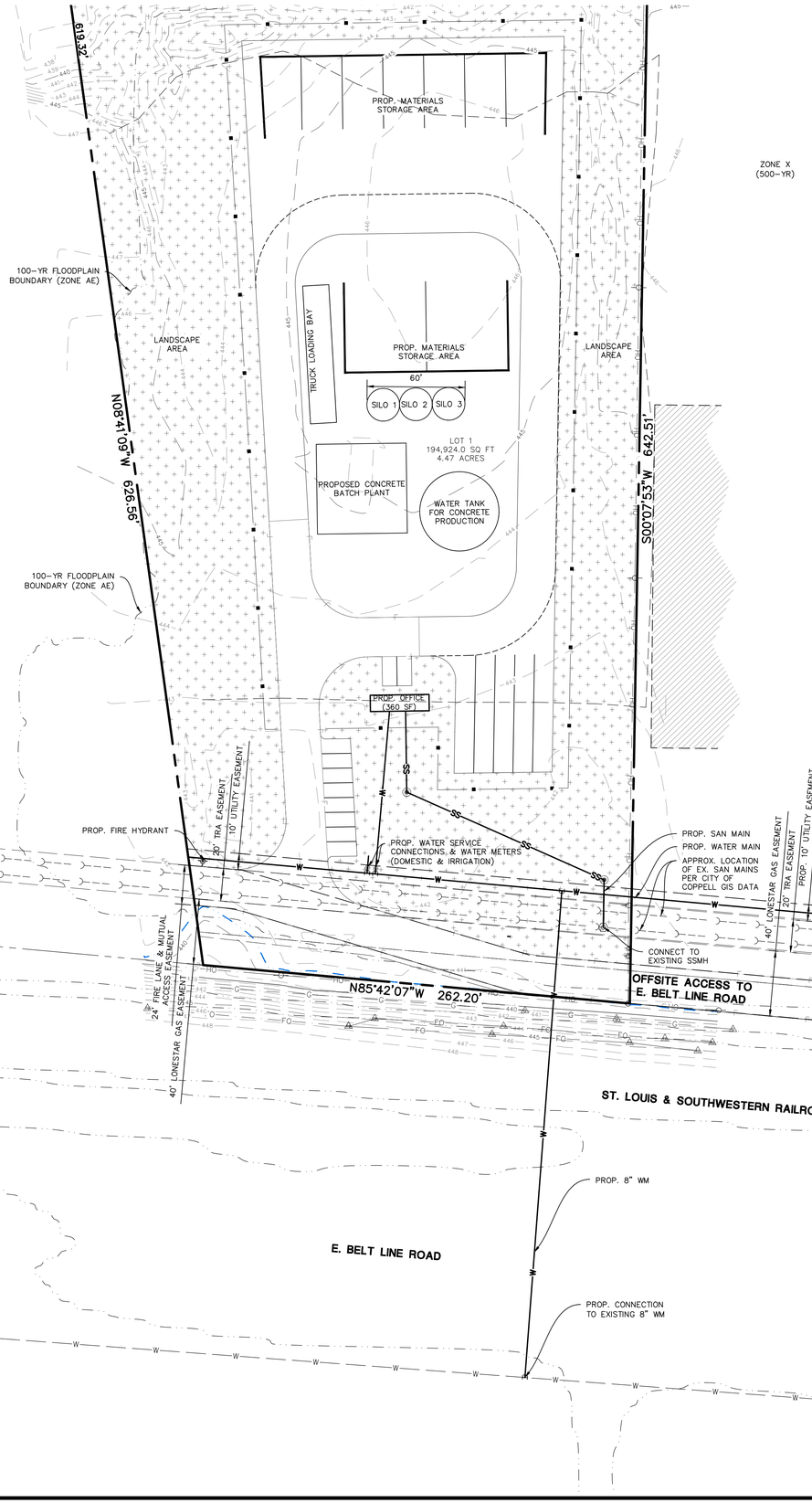


WATER LEGEND

- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- PROPOSED WATER METER
- PROPOSED SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- PROPOSED JUNCTION BOX
- PROPOSED GRATE INLET/CATCH BASIN
- PROPOSED WYE INLET
- PROPOSED CURB INLET
- PROPOSED HEADWALL
- PROPOSED WATER
- EXISTING WATER
- PROPOSED STORM SEWER
- EXISTING STORM SEWER
- PROPOSED SANITARY SEWER
- EXISTING SANITARY SEWER



07-07-2023

SANITARY SEWER NOTES:

1. COMMERICAL SERVICE CONNECTIONS MUST CONNECT TO THE PUBLIC MAIN AT A MANHOLE. RESIDENTAIL SERVICE CONNECTIONS MUST CONNECT DIRECTLY TO THE PUBLIC MAIN.
2. IN AREAS OF HIGH WATERSHED (ADJACENT TO CREEKS LAKES, ETC.), TRENCH DAMS SHALL BE INSTALLED ALONG SEWER MAIN EVERY 300 FEET.
3. THE MINIMUM COVER FOR SEWER MAINS SHALL BE 4 FEET.
4. SEWER LINES DEEPER THAN 10 FEET MUST USE SDR-26 PIPE OR MATERIAL OF EQUIVALENT PRESSURE RATING PER THE APPROVED MATERIALS LIST.
5. MANHOLES DEEPER THAN 15 FEET MUST BE MINIMUM 5-FOOT DIAMETER. MANHOLES WITH DROP CONNECTIONS MUST BE MINIMUM 6-FOOT DIAMETER.
6. ALL DROP CONNECTIONS MUST BE INTERNAL TO THE MANHOLE ON PUBLIC LINES. EXTERNAL DROP CONNECTIONS ARE NOT PERMITTED.
7. IN AREAS OF HIGH WATERSHED (ADJACENT TO CREEKS, LAKES, ETC.), TRENCH DAMS SHALL BE INSTALLED ALONG SEWER MAIN EVERY 300 FEET.
8. THE MINIMUM COVER FOR SEWER MAINS SHALL BE 4 FEET.
9. SEWER LINES DEEPER THAN 10 FEET MUST USE SDR-26 PIPE OR MATERIAL OF EQUIVALENT PRESSURE RATING PER THE APPROVED MATERIALS LIST.
10. MANHOLES DEEPER THAN 15 FEET MUST BE MINIMUM 5-FOOT DIAMETER. MANHOLES WITH DROP CONNECTIONS MUST BE MINIMUM 6-FOOT DIAMETER.
11. ALL DROP CONNECTIONS MUST BE INTERNAL TO THE MANHOLE ON PUBLIC LINES. EXTERNAL DROP CONNECTIONS ARE NOT PERMITTED.
12. WHERE PIPES ENTER A MANHOLE THERE SHALL BE A MINIMUM OF 0.10 FOOT OF DROP BETWEEN FLOWLINES. WHERE UNEQUAL SIZE PIPES ENTER MANHOLE, CROWN OF PIPES SHALL MATCH ELEVATIONS.
13. PRIVATE UTILITIES THIRD PARTY LETTER MUST BE UPLOADED TO THE CSS PORTAL FOR THE BUILDING PERMIT (COM) BEFORE THE TOP OUT PLUMBING INSPECTION CAN BE APPROVED ON THE BUILDING PERMIT. LETTER MUST BE PROVIDED BY EITHER THE CIVIL ENGINEER OF RECORD OR THE MASTER PLUMBER. CONTACT BUILDING INSPECTIONS AT PERMITAPPLICATIONS@MCKINNEYTEXAS.ORG OR (469)617-4800 FOR ADDITIONAL INFORMATION.

07-07-2023

UTILITY NOTES:

1. ALL DIMENSIONS AND LENGTHS SHOWN HERE IN, ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
2. BUILDING DIMENSIONS AND ADJACENT UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL CONTACT TEXAS 811 PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
4. ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES, IF SHOWN, ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE BASED UPON FINAL REVIEW AND APPROVAL BY RESPECTIVE UTILITY COMPANIES AND OWNER. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER, WATER MAIN AND DRY UTILITY LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
6. LIGHTING AND UNDERGROUND CABLE, IF SHOWN ON PLANS ARE FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS AND DETAILS.
7. THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO PROPOSED FINISH GRADES.
8. CONTRACTOR TO VERIFY LOCATION, SIZES, AND ELEVATION OF ALL BUILDING SERVICE LOCATIONS WITH ARCHITECTURAL PLANS.
9. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT ELEVATION OR LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
10. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HEREIN IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED.
11. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.

07-07-2023

WATER NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE JURISDICTIONAL GOVERNMENTAL ENTITY STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE NOTED WITHIN THESE PLANS AND APPROVED BY GOVERNMENTAL ENTITY.
2. ALL WATER MAINS, UNLESS OTHERWISE NOTED, SHALL BE A MINIMUM OF 48 INCHES BELOW FINISHED GRADE TO TOP OF PIPE..
3. ALL METER BOXES ARE TO BE LOCATED WITHIN NON-TRAFFIC AREA, UNLESS OTHERWISE APPROVED BY THE CITY. IN THE FORMER CASE, THE METER BOX MUST CARRY AN H-20 LOADING RATING FOR THE LID, AT A MINIMUM.
4. UNLESS OTHERWISE NOTED, THE UTILITY CONTRACTOR SHALL INSTALL THE WATER SERVICES TO A POINT AT TWO FEET BEYOND THE BACK OF CURB AND AT A DEPTH OF 12 INCHES. THE METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF CURB. EACH SERVICE LOCATION SHALL BE MARKED PER CITY STANDARDS AND SPECIFICATIONS.
5. VALVE BOXES ARE TO BE FURNISHED AND SET ON EACH GATE VALVE AFTER FINAL CLEAN-UP AND ALIGNMENT HAS BEEN COMPLETED. THE UTILITY CONTRACTOR SHALL POUR A 24"x24"x6" CONCRETE BLOCK AROUND ALL VALVE BOX TOPS, LEVEL WITH FINISHED GRADE.
6. ALL D.I. WATER MAIN FITTINGS SHALL BE WRAPPED.
7. FIRE HYDRANTS TO BE LOCATED BETWEEN 3-6 FEET BEHIND BACK OF CURB, AND SHALL HAVE 3-FOOT CLEAR SPACE AROUND HYDRANTS.
8. AT LOCATIONS WHERE VALVES AT TEES WOULD CONFLICT WITH PROPOSED BARRIER-FREE RAMPS, VALVES SHALL BE INSTALLED 15 FEET AWAY FROM THE TEE AND OUTSIDE THE LIMITS OF THE BFR.
9. AT LOCATIONS WHERE STRAIGHT ALIGNMENT IS IN CONFLICT WITH PROPOSED CURB INLETS, WATER LINE TO BE OFFSET MINIMUM 2 FEET BEHIND BACK OF INLET.
10. BACKFLOW PREVENTION TO BE PROVIDED AS REQUIRED BY TCEQ TITLE 30 SECTION 290 UNLESS DETERMINED OTHERWISE.
11. THE MINIMUM COVER FOR PUBLIC WATER MAINS SHALL BE 4 FEET FOR 6-INCH TO 8-INCH LINES, 5 FEET FOR 12-INCH TO 16-INCH LINES, AND 6 FEET FOR 20-INCH AND LARGER LINES. ADDITIONAL COVER MAY BE REQUIRED IN UNPAVED OR UNDEVELOPED AREAS.
12. ALL UNDERGROUND FIRE LINE AND REMOTE FDC PIPING SHALL BE A MINIMUM OF CLASS 200/DR14 OR BETTER. EMBEDMENT SHALL BE NO. 4 CRUSHED STONE. DEPTH OF BURY SHALL BE MINIMUM 48 INCHES FROM GRADE TO THE TOP OF THE PIPE. ALL UNDERGROUND FIRE LINES BEGIN AT THE POINT OF CONNECTION TO THE CIRCULATING PUBLIC/PRIVATE WATER MAIN AND TERMINATE AT THE TOP OF THE SPIGOT PIECE 1 FOOT ABOVE THE FINISHED FLOOR AND NO MORE THAN 5 FEET INSIDE THE BUILDING.

DATE	REVISIONS	DRAWN BY

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Tennessee Board of Professional Engineers & Land Surveyors Reg. No. F-10667

ESTRADA CONCRETE

1760 EAST BELT LINE ROAD

PRELIMINARY UTILITY LAYOUT

PROJ. MGR.: JG
PROJ. ASSOC.: CA
DRAWN BY: FCR
DATE: 04/16/2026

SHEET
C4.0

PENDING

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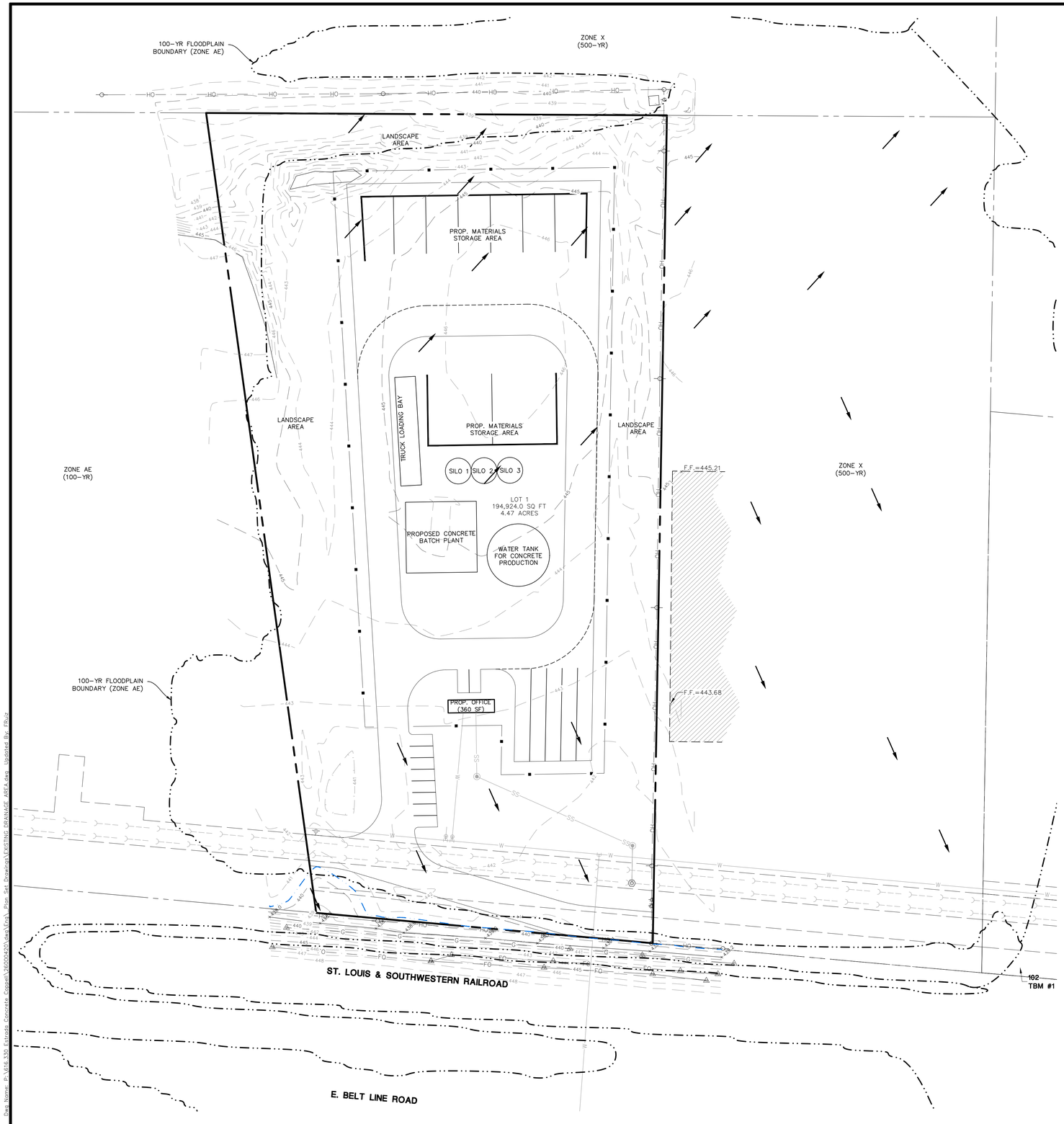

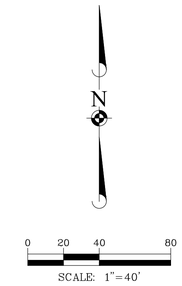

06-01-16

DRAINAGE PLAN NOTES:

1. THE PROPOSED DEVELOPMENT RESULTS IN A NET DECREASE IN IMPERVIOUS SURFACE AREA, SEE SITE PLAN DATA TABLE. THEREFORE, NO STORMWATER DETENTION FACILITIES ARE REQUIRED OR PROPOSED AT THIS TIME.
2. EXISTING DRAINAGE PATTERNS WILL BE MAINTAINED FOLLOWING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. GRADING WILL BE PROVIDED AS PART OF THE ENGINEERING PERMIT SUBMITTAL.
3. IF DETENTION IS DETERMINED TO BE REQUIRED DURING THE ENGINEERING PERMIT REVIEW, APPROPRIATE DETENTION FACILITIES WILL BE PROVIDED.

DATE	REVISIONS	DRAWN BY

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Construction Managers | Environmental Scientists | Landscape Architects | Planners
Tennessee Board of Professional Engineers & Land Surveyors Reg. No. F-10667

ESTRADA CONCRETE

1760 EAST BELT LINE ROAD

DRAINAGE PLAN

PROJ. MGR.: JG
PROJ. ASSOC.: CA
DRAWN BY: FCR
DATE: 04/16/2026

SHEET
C3.0

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