CITY OF SPRING HILL
BOARD OF MAYOR AND ALDERMEN
MEETING PACKET
JULY 7, 2025
6:00 PM

Board of Mayor and Aldermen:
Matt Fitterer, Mayor
Trent Linville, Vice-Mayor
Erinn Hartwell
Brent Murray
Jaimee Davis
John Canepari
Vincent Fuqua
Scott Wernert
Alex Jimenez

City of Spring Hill
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CITY OF SPRING HILL
BOARD OF MAYOR AND ALDERMEN
MEETING AGENDA
JULY 7, 2025
6:00 PM

Call Regular Meeting to Order

Stipulation of Members Present

Invocation

Pledge of Allegiance

SPECIAL PRESENTATIONS

1. **Columbia Police Department Presentation**

Approval of the Agenda

Citizen Comments

Mayor's Comments

City Administrator/Department Head Comments

Acknowledgements

PUBLIC HEARING (None)

Citizen Comments on Public Hearing Items

VOTING AGENDA

CONSENT ITEMS

1. **Consider Resolution 25-153, to amend Resolution 24-229 and retain vehicle.**
   Graig Temple, Fire Chief

   Attachment: Resolution 25-153_ To Amend 24-229.pdf
   Attachment: Memo - 25-153 Amendment of 24-229.pdf
   Attachment: Resolution 24-229_ to authorize purchase of replacement SUV for FD.pdf

2. **Consider Resolution 25-154, authorizing acceptance of Offer of Dedication of Road Rights-or-Way and Public Improvements shown on the existing plat for Harvest Point Phase 13, Sections B and C.**
   Missy Stahl, CIP Director

   Attachment: Resolution 25-154_ Harvest Point 13 Sec A _ B.pdf
   Attachment: Memo Harvest Point 13 Sec A _ B.pdf
   Attachment: Cert of Completion Harvest Point 13 B _ C.pdf
   Attachment: Harvest Point Phase 13 Section B _ C Final Plat.pdf

3. **Consider Resolution 25-155, to authorize the purchase of a tractor and top dresser for the Parks Division through Sourcewell Contract.**
   Tyler Scroggins, Public Works Director

   Attachment: Resolution 25-155_ to authorize the purchase of an Kubota Tractor and Top Dresser for Parks Division.pdf
   Attachment: Memo Tractor and Top Dresser for Parks Division FY26.pdf
   Attachment: Top Dresser Quote.pdf
   Attachment: Tractor Quote.pdf

4. **Consider Resolution 25-156, to authorize the purchase of a Spring Hill Voyager Trailblazer Camera System for the Stormwater Division through Sourcewell Contract.**
   Tyler Scroggins, Public Works Director

Attachment: Resolution 25-156_ to authorize the purchase of a Spring Hill Voyager Trailblazer Camera System for Stormwater.pdf
Attachment: Memo Trailblazer camera system stormwater division fy26.pdf
Attachment: Spring Hill Voyager-Trailblazer System with Washdown__6-20-25__Sourcewell S250620.pdf

5. **Consider Resolution 25-157, to authorize the purchase of a Petersen Knuckleboom for the Sanitation Division through Sourcewell Contract.**
   Tyler Scroggins, Public Works Director

Attachment: Resolution 25-157_ to authorize the purchase of a Petersen Knuckleboom through Sourcewell for Sanitation.pdf
Attachment: Memo Petersen Knuckleboom sanitation division fy26.pdf
Attachment: CMi Quote.pdf

6. **Consider Resolution 25-158, to authorize street repaving under the Annual Contracts for Fiscal Year 2026.**
   Tyler Scroggins, Public Works Director

Attachment: Resolution 25-158_ to authorize streets repaving FY2026.pdf
Attachment: Paving Memo FY26.pdf
Attachment: Anderson Acres Map.pdf
Attachment: Autumn Ridge Map.pdf
Attachment: Buckner Map.pdf
Attachment: Campbell Station Map.pdf
Attachment: Creekwood Heighs Map.pdf
Attachment: Denning Lane Map.pdf
Attachment: Jackson Jones Map.pdf
Attachment: Meadowbrook Map.pdf
Attachment: Paving Inspections 2025 With Sub.pdf
Attachment: Paving Survey 2025.pdf
Attachment: Rogers Group Proposal.pdf
Attachment: Sutherland Drive Map.pdf
Attachment: Whispering Wood Map.pdf

7. **Consider Resolution 25-159, to authorize the purchase of structural firefighting personal protective equipment.**
   Kevin Glenn, Deputy Fire Chief

Attachment: Resolution 25-159_ Structural Turnout Gear FY26.pdf
Attachment: Resolution Memo 25-159 Structural Turnout Gear.pdf
Attachment: 20250701084911131.pdf

8. **Consider Resolution 25-160, to authorize the City of Spring Hill to execute Amendment A to the Joint Contract between Williamson County, TN and the City of Spring Hill, TN for the continued housing of computer servers at the Williamson County Office of Public Safety.**
   Matt Fitterer, Mayor; Graig Temple, Fire Chief

Attachment: Resolution 25-160_ to approve Amendment A to Joint Agreement with Williamson Co regarding storage.pdf
Attachment: BP-70C45_20250627_081756.pdf
Attachment: Resolution 22-108_ approve memo of understanding_ City of SH _ Williamson Co._ storage of computer servers.pdf

9. **Consider Resolution 25-167, to authorize the purchase of vehicles and equipment for the Public Works Department through Sourcewell and State Contracts.**
   Tyler Scroggins, Public Works Director

Attachment: Resolution 25-167 to authorize the purchases of vehicles and equipment for Public Works Department.pdf
Attachment: Memo Vehicles and Equipment FY26 for Public Works Department.pdf
Attachment: Exhibit A.pdf

10. **Consider Resolution 25-168, to authorize street striping under the Annual Contracts for Fiscal Year 2026.**
    Tyler Scroggins, Public Works Director

Attachment: Resolution 25-168_ to authorize street striping for Buckner Road.pdf
Attachment: Memo street striping Buckner Road FY26 Kerr Brothers.pdf
Attachment: FY26 Striping Buckner Road - Kerr Bro.pdf

PREVIOUS BUSINESS

1. **Consider Resolution 25-93, dissolving the Traffic Calming Program.**
   (deferred from May 19, 2025) Vince Fuqua, Alderman

   Attachment: Resolution 25-93_ A Resolution Dissolving the Traffic Calming Program.pdf

2. **Consider Resolution 25-94, granting Traffic Calming Program funding to the Spring Hill Police Department for the purpose of adding two to three officers dedicated to traffic calming and ensuring the safety of residents in problematic areas.**
   (deferred from May 19, 2025) Vince Fuqua, Alderman

   Attachment: Resolution 25-94_ A Resolution Granting Traffic Calming Funding to the SHPD.pdf

NEW BUSINESS

1. **Consider Resolution 25-161, to authorize approval of Fire Department Uniform Contract.**
   Graig Temple, Fire Chief

   Attachment: Resolution 25-161_ Uniform Contract.pdf
   Attachment: Resolution Memo - Uniform Agreement 2025-26.pdf
   Attachment: Spring Hill TN Fire Dept Uniform Contract 25-72_Unsigned.pdf

2. **Consider Resolution 25-162, authorizing the mayor to sign an Employment Agreement with Carter Napier.**
   Matt Fitterer, Mayor; Patrick Carter, City Attorney

   Attachment: Resolution 25-162_ Napier Contract.pdf
   Attachment: 2025 Employment Contract - Napier.pdf

3. **Consider Resolution 25-163, to authorize the mayor to sign a Memorandum of Understanding with Kings Hammer Soccer.**
   Matt Fitterer, Mayor

   Attachment: Resolution 25-163_ Kings Hammer MOU.pdf
   Attachment: Kings Hammer Memo.pdf
   Attachment: MOU_Kings Hammer - City of Spring Hill_06132025.pdf

4. **Consider Resolution 25-164, to authorize the mayor to sign a Funding Participation Agreement with SSVM Mitchum Sub LLC and 3586 KCTN LLC.**
   Matt Fitterer, Mayor

   Attachment: Resolution 25-164_ Ragan Ridge Agreement.pdf
   Attachment: updated Spring Hill intersection improvement participation agreement_522342049 REDLINED.pdf
   Attachment: updated Spring Hill intersection improvement participation agreement_522342049.6_ CLEAN.pdf

5. **Consider First Reading of Ordinance 25-18, to amend Section 10-102 of the Spring Hill Municipal Code regarding the keeping of backyard hens.**
   Vince Fuqua, Alderman; Dara Sanders, Development Services Director

   Attachment: Ordinance 25-18_ Backyard Hens.pdf
   Attachment: Memo Ordinance 25-xx Modifications to Municipal Code for Backyard Hens.pdf

6. **Consider Resolution 25-165, to approve blanket purchase orders for fiscal year 2025-2026.**
   Rebecca Holden, Finance Director

   Attachment: Resolution 25-165_ blanket PO 25-26.pdf
   Attachment: Resolution Memo.pdf
   Attachment: FY26 Blanket POs2.pdf
   Attachment: Badger Meter - Sole Source Letter.pdf
   Attachment: CITCO Water - Sole Source Letter.pdf
   Attachment: Harcross- Sole Source Letter.pdf
   Attachment: USALCO LLC - Sole Source Letter.pdf
   Attachment: Xylem Water Solutions_ USA - Sole Source Letter.pdf

7. **Consider Resolution 25-166, to authorize water and sewer Task Order Agreements with Thomas and Hutton.**
   Dan Allen, Assistant City Administrator, GM Utilities

   Attachment: Resolution 25-166.pdf
   Attachment: 28298.0064 Task Order - WWTP Demo and Grading 06192025.pdf

WORK SESSION/DISCUSSION

1. **Discussion, Buckner Lane/June Lacke Blvd. Intersection Striping.**
   (recommended by the Transportation Advisory Committee on June 16, 2025) Missy Stahl, CIP Director and Tyler Scroggins, Public Works Director

   Attachment: BR_BL_JL striping.pdf
   Attachment: JMT.pdf

2. **Discussion, Merrill Property along Kedron Road.**
   Derek Merril, Citizen

3. **Discussion, Resolution to award Advance Purification PILOT Design.**
   Dan Allen, ACA, GM Utilities

4. **Discussion, Ordinance to amend Spring Hill Towne Crossing.**
   Dara Sanders, Development Services Director

   Attachment: Memo Ordinance 25-xx Spring Hill Towne Crossing Planned Development Amendment.pdf

5. **Discussion, Resolution for Joint Agreement with SMR.**
   Dara Sanders, Development Services Director

   Attachment: Memo Resolution 25-xx Joint Agreement with SMR.pdf
   Attachment: SMR and City Joint Agreement _BOMA Work Session Draft_.pdf
   Attachment: SMR Development Agreement Exhibit A.pdf

6. **Discussion, TDEC ARP Grant Update**
   Dan Allen, ACA, GM Utilities

7. **Discussion, Reclamation Plant - Centrifuge Project 30% Update**
   Dan Allen, ACA, GM Utilities

   Attachment: Centrifuge BODR.pdf
   Attachment: Spring Hill Centrifuge-Based Solids Facility Design_30 pct Specification TOC and Drawings.pdf

8. **Roundtable Discussion**

Citizen Comments

Adjourn

Agenda Notes

Attachment: BOMA Agenda Notes 07-07-2025 v2.pdf

RESOLUTION 25-153

A RESOLUTION TO AMEND RESOLUTION 24-229 AND RETAIN VEHICLE

WHEREAS, the City of Spring Hill operates a career fire department with four divisions; and

WHEREAS; in August of 2024 following the purchase of a new vehicle, the decision was made in Resolution 24-229 to dispose of a 2013 Dodge Durango assigned to Fire Administration Division after the replacement vehicle was placed in service; and

WHEREAS; the replacement vehicle has been fully upfitted and placed in service officially on June 16, 2025; and

WHEREAS; the Fire Marshal Division gained a part-time employee in the FY26 Budget; and

WHEREAS, in the FY26 Budget, new Fire Department support vehicles requested were removed, and the need now exists to retain the 2013 Dodge Durango for the foreseeable future in order to be used Administratively and by the Part Time Fire Inspector.

NOW, THEREFORE BE IT RESOLVED, the City of Spring Hill Board of Mayor and Aldermen authorize the amendment to Resolution 24-229 authorizing the Fire Department to retain the 2013 Dodge Durango.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-153***

SUBMITTED BY: **Graig Temple, Fire Chief**

DATE: **July 7, 2025**

RE: **To Amend Resolution 24-229 and Retain 2013 Dodge Durango**

PURPOSE:

The purpose of this resolution is to approve an amendment to Resolution 24-229 and authorize the Fire Department to retain a 2013 Dodge Durango.

BACKGROUND:

As part of the 2024 Vehicle Replacement Schedule, the 2013 Dodge Durango was scheduled for replacement. The Durango was originally a used vehicle purchased from GovDeals in 2022 and has over 150,000 miles currently on it. The replacement vehicle for the Durango officially went into service on June 16th, and per existing Resolution 24-229 is to be listed and sold on Gov Deals.

On July 1, 2025 (FY26) the Fire Marshal's Division will gain a part-time Fire Inspector. The department does not have a vehicle for the Fire Inspector to drive, and the planned reserve vehicle(s) that they would have been able to use were removed from the FY26 Budget. Without a vehicle the Fire Inspector would be eligible to charge mileage which is not budgeted for in FY26. Additionally, it is more advantageous and safer to be in a marked vehicle on official business for the fire inspections.

FINANCIAL IMPACT:

Financial impact is planned to be minimum and revolve around fuel and normal planned preventative maintenance items as the transmission issues have been resolved.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-153.

RESOLUTION 24-229

A RESOLUTION TO APPROVE THE PURCHASE OF REPLACEMENT SUV FOR FIRE DEPARTMENT

WHEREAS, the City of Spring Fire Department operates a career fire department that responds to all hazards within the city; and

WHEREAS; the Fire Department has planned and budgeted in FY25 for the replacement of a 2013 Dodge Durango assigned to Fire Administration; and

WHEREAS; the existing vehicle has over 150,000 miles and mechanical issues; and

WHEREAS, Wilson County Motors, the current State of Tennessee Contract Vendor for Chevrolet is taking orders for an October 2024 production run; and

WHEREAS, in order to obtain the Fire Department specified Special Service Vehicle (SSV) Chevrolet Tahoe, an order must be placed in advance of the production run to guarantee delivery by the end of December 2024.

NOW, THEREFORE BE IT RESOLVED, the City of Spring Hill Board of Mayor and Aldermen authorize the purchase of one (1) Chevrolet Tahoe SSV from Wilson County Motors under State of Tennessee Vehicle Contract SW209 at a price of $52,406.20 and to permit the sale of the existing 2013 Dodge Durango on GOVDEALS.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 16th day of September 2024.

Jim Hagaman, Mayor

ATTEST:

April Goad, City Recorder

LEGAL FORM APPROVED:

Patrick Carter, City Attorney

COPY

REQUEST: ***Approval of Resolution 24-229***

SUBMITTED BY: **Graig Temple, Fire Chief**

DATE: **September 16, 2024**

RE: **Purchase of Replacement SUV**

COPY

PURPOSE:

The purpose of this resolution is to allow the Fire Department to purchase (1) Chevrolet Tahoe Special Service Vehicle (SSV) as replacement vehicle to be assigned to Fire Administration.

BACKGROUND:

The department has an apparatus and vehicle replacement schedule that was established in 2022 and has budgeted for the replacement in FY25 of a 2013 Dodge Durango that was purchased used from GovDeals. The Durango has over 150,000 miles and recurrent intermittent transmission issues. The replacement vehicle will be assigned to Fire Administration and will be used to conduct Community Risk Reduction visits, pull the public education trailer, and to respond to major incidents.

FINANCIAL IMPACT:

The funding for the purchase of the vehicles has been budgeted in FY25 CEP and will be made through Wilson County Motors using State of Tennessee Vehicle Contract SWC209.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 24-227 to purchase one (1) Chevrolet Tahoe Special Service Vehicle (SSV) from Wilson County Motors in the amount of $52,406.20 and to place the 2013 Dodge Durango on GovDeals for sale as is.

2024 Chevrolet Tahoe 4x4 SSV shown. Vehicle shown with upfits from an independent supplier and are not covered by the GM New Vehicle Limited Warranty. GM is not responsible for the safety and quality of independent supplier alterations.

2024

CHEVROLET TAHOE SPECIAL SERVICE VEHICLE

125.9 CU. FT. Max. Cargo Space[1]

5-YR/100K Powertrain Limited Warranty[2]

10-WAY Police-Specific Power Driver Seat

AVAILABLE MODELS

Tahoe Special Service 4WD	1FL

EXTERIOR COLORS

- Black
- Dark Ash Metallic
- Dark Blue Metallic[4]
- Empire Beige Metallic
- Midnight Blue Metallic
- Radiant Red Tintcoat[3]
- Silver Ice Metallic[4]
- Silver Sage Metallic
- Sterling Gray Metallic
- Summit White
- Victory Red[4]
- Wheatland Yellow[4]
- Woodland Green[4]

NOTE: Exterior colors vary by trim level. Multiple SEO colors also available. See Order Guide for details.

KEY STANDARD FEATURES

Features based on Tahoe Commercial model with 1FL equipment group and 5W4 Package.

SAFETY + SECURITY

Embedded OnStar® hardware, includes 3-month trial of Safety & Security[5] and 3 years of Remote Access[5]
Front and Rear Park Assist[6]
HD Rear Vision Camera[6] (8-inch diagonal display)

PERFORMANCE

5.3L V8 engine (355 hp/383 lb.-ft. of torque)
10-speed automatic transmission with dash-mounted gear selector
900 cold-cranking amps primary battery
760 cold-cranking amps auxiliary battery with 70-amp hour rating
1,745-lbs. max. payload[7]
7,700-lbs. max. trailering capacity[8]
High-output 250-amp alternator and 100-amp rear power supply
Hill Start Assist
Independent rear suspension
Single-speed transfer case with Terrain Mode
Skid plate, front
StabiliTrak® Electronic Stability Control System with Traction Control
Tow/Haul Mode

PRODUCTIVITY + DRIVE EXPERIENCE

Wi-Fi® Hotspot[9] capable
10-way police-specific power driver seat
18-inch Bright Silver-painted aluminum wheels with 265/65R18SL all-season, blackwall tires
40/20/40 three-passenger split-folding front bench seat with center fold-down armrest
60/40 split-folding rear bench seat, manual
Black rubberized-vinyl floor covering
Bluetooth® wireless technology[10] for select phones
Class IV trailering receiver with 7-wire harness connector
Flashing headlamp/taillamp calibration
Keyless Open and Start with Remote Keyless Entry
Protected Idle
Steering wheel switches for emergency equipment
Surveillance mode interior and exterior lighting calibration
Wireless Apple CarPlay®[11] and Android Auto[12] capable

KEY AVAILABLE FEATURES

Optional features and packages vary by trim level. See Order Guide for details.

2-speed Autotrac® transfer case
20-inch all-terrain tires with aluminum wheels
Automatic Emergency Braking[6]
Auxiliary LED dome lamp with red and white settings, headliner-mounted
Common fleet keys and fob programming
Following Distance Indicator[6]
Forward Collision Alert[6]
Front center seat delete
Front Park Assist[6] delete (recommended for push bumper applications)
Front Pedestrian Braking[6]
Inside rear doors and windows inoperative
Lane Keep Assist with Lane Departure Warning[6]
LED liftgate warning lamps, red and blue
LED spot lamps
Max Trailering Package (8,200 lbs. max. trailering capacity)[8]
Non-tinted rear door and cargo glass
Rear Camera Mirror with washer[6]
Recovery hooks[13]
Remote Start
Second-row seat delete (ships as incomplete vehicle)
Whelen ION™ light heads (4) mounted in front grille and integrated Outer Edge® Rear Pillar with ION™ light heads (6), available in multiple red/blue/white color options
Wiring for grille lamps, siren speakers and horn/siren circuit

COPY

1 Behind front row. Cargo and load capacity limited by weight and distribution. 2 Whichever comes first. A "Qualified Fleet User" is defined as, subject to below limitations, any company: (a) which has purchased or leased five (5) or more new cars and/or trucks (any combination of vehicle manufacturers) principally for business use in its operation within the last 12 months; (b) that currently owns or leases five (5) or more medium duty trucks used in its company service; or (c) that currently owns or leases fifteen (15) or more cars and trucks used in its company service. 3 Premium paint; additional cost. 4 SEO solid paint color. 5 Services subject to user terms and limitations. Certain services require working electrical system, cell reception and GPS signal. OnStar links to emergency services. See OnStar.com/BusinessSolutions for details. Availability subject to change. 6 Safety or driver assistance features are no substitute for the driver's responsibility to operate the vehicle in a safe manner. Read the vehicle's Owner's Manual for important feature limitations and information. 7 These maximum payload ratings are intended for comparison purposes only. Before you buy a vehicle or use it to haul people or cargo, carefully review the Vehicle Loading section of the Owner's Manual and check the carrying capacity of your specific vehicle on the label on the inside of the driver's door jamb. 8 Maximum trailering ratings are intended for comparison purposes only. Before you buy a vehicle or use it for trailering, carefully review the Trailering section of the Owner's Manual. The trailering capacity of your specific vehicle may vary. The weight of passengers, cargo and options or accessories may reduce the amount you can trailer. 9 Service varies with conditions and location. Requires active service plan and paid AT&T data plan. See OnStar.com/BusinessSolutions for details and limitations. Availability subject to change. Vehicle must be on or in the accessory position for Wi-Fi® to function. 10 Go to my.chevrolet.com/learn to find out which Bluetooth phones are compatible with the vehicle. 11 Vehicle user interface is a product of Apple® and its terms and privacy statements apply. Requires compatible iPhone® and data plan rates apply. Apple CarPlay®, Siri®, iPhone® and Apple Music® are trademarks of Apple, Inc., registered in the U.S. and other countries. 12 Vehicle user interface is a product of Google, and its terms and privacy statements apply. Requires the Android Auto app on Google Play and a compatible Android™ smartphone. Data plan rates apply. You can check which smartphones are compatible at g.co/androidauto/requirements. Android Auto is a trademark of Google LLC. 13 To avoid the risk of injury, never use recovery hooks to tow a vehicle. For more information, see the Recovery Hooks section of your Owner's Manual.

RESOLUTION 25-154

A RESOLUTION AUTHORIZING ACCEPTANCE OF OFFER OF DEDICATION OF ROAD RIGHTS-OF-WAY AND PUBLIC IMPROVEMENTS SHOWN ON THE EXISTING PLAT FOR HARVEST POINT PHASE 13 SECTION B AND C

WHEREAS, developer Harvest Point Development Partners, LLC has a recorded Final Plat for Harvest Point Phase 13 Section B & C in Maury County Plat Book P22, Page 289; and

WHEREAS, said Plat shows public rights-of-way proposed for dedication to the City of Spring Hill; and

WHEREAS, an Offer of Dedication, Deeds of Conveyance and a Maintenance Surety have been submitted pursuant to the Subdivision Regulations; and

WHEREAS, a Certificate of Satisfactory Completion has been furnished by the City of Spring Hill indicating that through inspections of the road rights-of-way, the design intent has been achieved; and

WHEREAS, the developer is required under Section VI, Paragraph 6.3 of the Subdivision Regulations to submit an "as-built" survey of the public improvements including water, sewer and drainage; and

WHEREAS, on May 13, 2024, the City of Spring Hill Planning Commission recommended the Road Rights-of-Way and Public Improvements for Harvest Point Phase 13 Section B & C be accepted; and

WHEREAS, the Board of Mayor and Aldermen deems it in the best interest of the City of Spring Hill that the Offer of Dedication of the Road Rights-of-Way be accepted and the same become a part of the public street system of the City of Spring Hill.

NOW, THEREFORE BE IT RESOLVED, by the City of Spring Hill Board of Mayor and Aldermen that dedication and acceptance of Road Rights-of Way within Harvest Point Phase 13 Section B & C as shown on the recorded plat is hereby approved.

Passed and adopted this 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-154***

SUBMITTED BY: **Missy Stahl, CIP Director**

DATE: **July 7, 2025**

RE: **To accept the dedication of road rights-of-way and public improvements for Harvest Point Phase 13 Section B & C**

ATTACHMENTS: **Certificate of satisfaction, final plat**

PURPOSE:

The purpose of this memo is to provide information regarding a resolution to accept the dedication of road rights-of-way and public improvements Harvest Point Phase 13 Section B & C.

BACKGROUND:

Planning Commission has recommended the acceptance of the roads and public improvements within Harvest Point Phase 13 Section B & C by PC Resolution 24-50, approved on May 13, 2024. A certificate of satisfaction has been signed by City staff.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-154 to accept the dedication of road rights-of-way and public improvements for Harvest Point Phase 13 Section B & C.

CERTIFICATE OF SATISFACTORY COMPLETION

Date: 8-17-24

CKP Development LLC

Harvest Point

Phase 13 Section B & C

Development Name: Harvest Point

Phase or Section of Construction: Phase 13 Section B & C

Public Improvements: Sidewalks, Street Lights, Street Signs, Stormwater Surface Maintenance, and Final topping to all streets with 1 ½ inches of hot mix asphalt

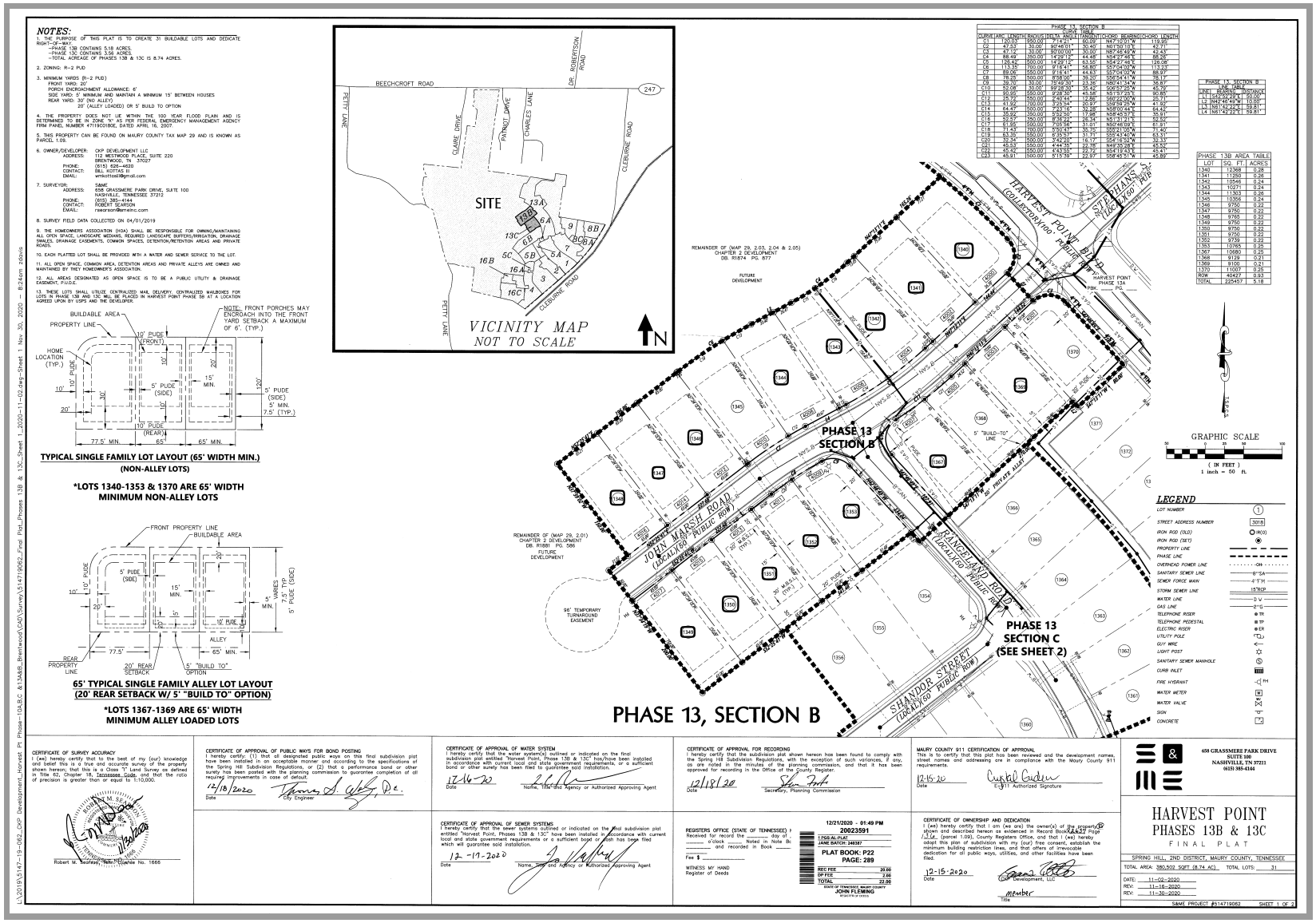
I hereby certify that I have supervised and inspected the improvements to ensure that the design intent has been achieved.

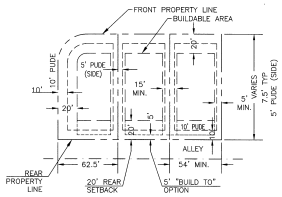
Record Drawings have been submitted by Applicant's engineer to the City pursuant to ordinance requirements.

Approved By:
City of Spring Hill Public Works Director

199 TOWN CENTER PARKWAY P.O. BOX 789 SPRING HILL, TN 37174

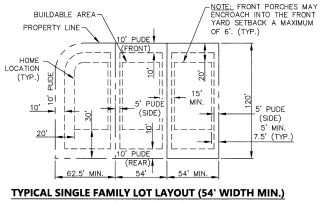
PHONE (931)486-2252 NASHVILLE LINE (615)248-6307 WILLIAMSON CO. (615)599-2614 FAX (931)486-0516


NOTES:
1. THE PURPOSE OF THIS PLAT IS TO CREATE 31 BUILDABLE LOTS AND DEDICATE RIGHT-OF-WAY.
-PHASE 13B CONTAINS 5.18 ACRES.
-PHASE 13C CONTAINS 3.56 ACRES.
-TOTAL ACREAGE OF PHASES 13B & 13C IS 8.74 ACRES.
2. ZONING: R-2 PUD
3. MINIMUM YARDS (R-2 PUD)
FRONT YARD: 20'
PORCH ENCROACHMENT ALLOWANCE: 6'
SIDE YARD: 5' MINIMUM AND MAINTAIN A MINIMUM 15' BETWEEN HOUSES
REAR YARD: 30' (NO ALLEY)
20' (ALLEY LOADED) OR 5' BUILD TO OPTION
4. THE PROPERTY DOES NOT LIE WITHIN THE 100 YEAR FLOOD PLAIN AND IS DETERMINED TO BE IN ZONE "X" AS PER FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM PANEL NUMBER 47119C0108E, DATED APRIL 16, 2007.
5. THIS PROPERTY CAN BE FOUND ON MAURY COUNTY TAX MAP 29 AND IS KNOWN AS PARCEL 1.09.
6. OWNER/DEVELOPER: CKP DEVELOPMENT LLC
ADDRESS: 112 WESTWOOD PLACE, SUITE 220
BRENTWOOD, TN 37027
PHONE: (615) 628-4620
CONTACT: BILL KOTTAS II
EMAIL: wmkottas1@gmail.com
7. SURVEYOR: SAME
ADDRESS: 658 GRASSMERE PARK DRIVE, SUITE 100
NASHVILLE, TENNESSEE 37211
PHONE: (615) 385-4144
CONTACT: ROBERT SCARSON
EMAIL: rscarson@emainc.com
8. SURVEY FIELD DATA COLLECTED ON 04/01/2019
9. THE HOMEOWNERS ASSOCIATION (HOA) SHALL BE RESPONSIBLE FOR OWNING/MAINTAINING ALL OPEN SPACE, LANDSCAPE MEDIANS, REQUIRED LANDSCAPE BUFFERS/IRRIGATION, DRAINAGE SWALES, DRAINAGE EASEMENTS, COMMON SPACES, DETENTION/RETENTION AREAS AND PRIVATE ROADS.
10. EACH PLATTED LOT SHALL BE PROVIDED WITH A WATER AND SEWER SERVICE TO THE LOT.
11. ALL OPEN SPACE, COMMON AREA, DETENTION AREAS AND PRIVATE ALLEYS ARE OWNED AND MAINTAINED BY THEY HOMEOWNER'S ASSOCIATION.
12. ALL AREAS DESIGNATED AS OPEN SPACE IS TO BE A PUBLIC UTILITY & DRAINAGE EASEMENT, P.U.D.E.
13. THESE LOTS SHALL UTILIZE CENTRALIZED MAIL DELIVERY. CENTRALIZED MAILBOXES FOR LOTS IN PHASE 13B AND 13C WILL BE PLACED IN HARVEST POINT PHASE 8B AT A LOCATION AGREED UPON BY USPS AND THE DEVELOPER.
BUILDABLE AREA
PROPERTY LINE
10' PUDE (FRONT)
NOTE: FRONT PORCHES MAY ENCROACH INTO THE FRONT YARD SETBACK A MAXIMUM OF 6'. (TYP.)
HOME LOCATION (TYP.)
5' PUDE (SIDE)
15' MIN.
5' MIN. 7.5' (TYP.)
10' PUDE (REAR)
77.5' MIN.
65'
65' MIN.
TYPICAL SINGLE FAMILY LOT LAYOUT (65' WIDTH MIN.)
(NON-ALLEY LOTS)
*LOTS 1340-1353 & 1370 ARE 65' WIDTH MINIMUM NON-ALLEY LOTS
FRONT PROPERTY LINE
BUILDABLE AREA
5' PUDE (SIDE)
15' MIN.
5' MIN.
VARIES 5' TO 7.5' PUDE (SIDE)
10' PUDE
ALLEY
REAR PROPERTY LINE
20' REAR SETBACK
5' "BUILD TO" OPTION
65' MIN.
65' TYPICAL SINGLE FAMILY ALLEY LOT LAYOUT
(20' REAR SETBACK W/ 5' "BUILD TO" OPTION)
*LOTS 1367-1369 ARE 65' WIDTH MINIMUM ALLEY LOADED LOTS
BEECHCROFT ROAD
DR. ROBERTSON ROAD
PETTY LANE
CLAIRE DRIVE
PATRIOT LANE
CHARLES LANE
CLEBURNE ROAD
SITE
VICINITY MAP
NOT TO SCALE
N
PHASE 13A SECTION B CURVE TABLE
PHASE 13A SECTION B LINE TABLE
PHASE 13B AREA TABLE
LOT SQ. FT. ACRES
1340 12368 0.28
1341 11250 0.26
1342 10546 0.24
1343 10271 0.24
1344 11303 0.26
1345 10309 0.24
1346 9750 0.22
1347 9750 0.22
1348 9765 0.22
1349 9750 0.22
1350 9750 0.22
1351 9750 0.22
1352 9739 0.22
1353 10765 0.25
1367 10680 0.25
1368 9129 0.21
1369 9100 0.21
1370 11007 0.25
ROW 40427 0.93
TOTAL 225457 5.18
REMAINDER OF (MAP 29, 2.03, 2.04 & 2.05) CHAPTER 2 DEVELOPMENT DB. 81874 PG. 877
FUTURE DEVELOPMENT
HARVEST POINT PHASE 13A PBK. PG.
HARVEST POINT BLVD. (COLLECTOR/1700' PUBLIC R.O.W.)
SYDENHAM'S TURN PUBLIC R.O.W.
PHASE 13 SECTION B
PHASE 13 SECTION C (SEE SHEET 2)
JOHN MARSH ROAD (LOCAL/50' PUBLIC R.O.W.)
RANGELAND ROAD (LOCAL/50' PUBLIC R.O.W.)
SHANDOR STREET (LOCAL/50' PUBLIC R.O.W.)
REMAINDER OF (MAP 29, 2.01) CHAPTER 2 DEVELOPMENT DB. 81881 PG. 586
FUTURE DEVELOPMENT
96' TEMPORARY TURNAROUND EASEMENT
GRAPHIC SCALE
(IN FEET)
1 inch = 60 ft.
LEGEND
LOT NUMBER
STREET ADDRESS NUMBER
IRON ROD (OLD)
IRON ROD (SET)
PROPERTY LINE
PHASE LINE
OVERHEAD POWER LINE
SANITARY SEWER LINE
SEWER FORCE MAIN
STORM SEWER LINE
WATER LINE
GAS LINE
TELEPHONE RISER
TELEPHONE PEDESTAL
ELECTRIC RISER
UTILITY POLE
GUY WIRE
LIGHT POST
SANITARY SEWER MANHOLE
CURB INLET
FIRE HYDRANT
WATER METER
WATER VALVE
SIGN
CONCRETE
PHASE 13, SECTION B
CERTIFICATE OF SURVEY ACCURACY
CERTIFICATE OF APPROVAL OF PUBLIC WAYS FOR BOND POSTING
CERTIFICATE OF APPROVAL OF WATER SYSTEM
CERTIFICATE OF APPROVAL FOR RECORDING
MAURY COUNTY 911 CERTIFICATION OF APPROVAL
CERTIFICATE OF APPROVAL OF SEWER SYSTEMS
REGISTERS OFFICE (STATE OF TENNESSEE)
CERTIFICATE OF OWNERSHIP AND DEDICATION
658 GRASSMERE PARK DRIVE SUITE 100 NASHVILLE, TN 37211 (615) 385-4144
HARVEST POINT
PHASES 13B & 13C
FINAL PLAT
SPRING HILL, 2ND DISTRICT, MAURY COUNTY, TENNESSEE
TOTAL AREA: 380,502 SQFT (8.74 AC) TOTAL LOTS: 31
DATE: 11-02-2020
REV: 11-16-2020
REV: 11-30-2020
SAME PROJECT #514719062 SHEET 1 OF 2



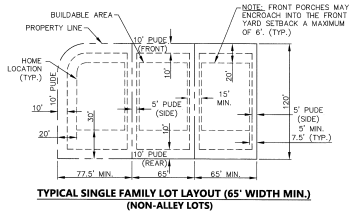
54' TYPICAL SINGLE FAMILY ALLEY LOT LAYOUT (20' REAR SETBACK W/ 5' "BUILD TO" OPTION)

*LOTS 1361-1366 ARE 54' WIDTH MINIMUM ALLEY LOADED LOTS



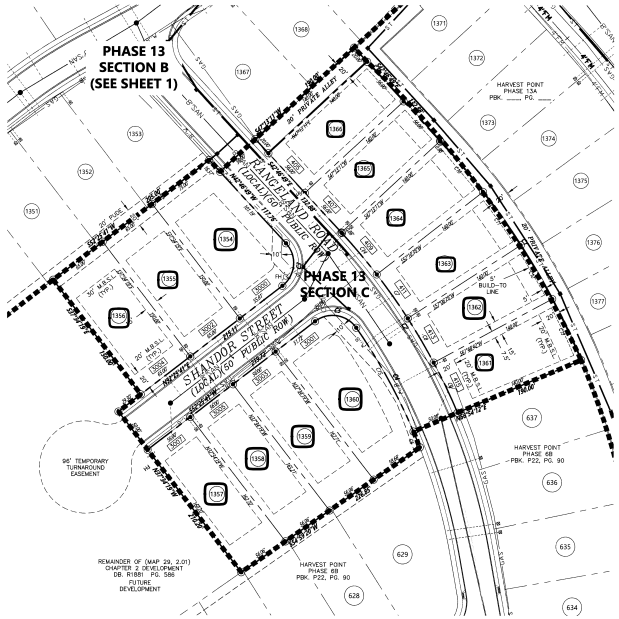
TYPICAL SINGLE FAMILY LOT LAYOUT (54' WIDTH MIN.) (NON-ALLEY LOTS)

*LOTS 1357-1360 ARE 54' WIDTH MINIMUM NON-ALLEY LOTS



TYPICAL SINGLE FAMILY LOT LAYOUT (65' WIDTH MIN.) (NON-ALLEY LOTS)

*LOTS 1354-1356 ARE 65' WIDTH MINIMUM NON-ALLEY LOTS



PHASE 13, SECTION C

12/21/2020 - 01:49 PM
20023591
1 PGE AL-PLAT
JANE BATCH: 249387
PLAT BOOK: P22
PAGE: 289
REC FEE 20.00
DP FEE 2.00
TOTAL 22.00
STATE OF TENNESSEE, MAURY COUNTY
JOHN FLEMING
REGISTER OF DEEDS

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

PHASE 13C AREA TABLE		
LOT	SQ. FT	ACRES
1354	12038	0.28
1355	9750	0.22
1356	9750	0.22
1357	9041	0.21
1358	9181	0.21
1359	9302	0.21
1360	12432	0.29
1361	9858	0.21
1362	8275	0.19
1363	8674	0.20
1364	8845	0.20
1365	7840	0.18
1366	7840	0.18
ALLEY	2800	0.06
ROW	30269	0.70
TOTAL	155045	3.56

PHASE 13, SECTION C CURVE TABLE						
CURVE	ARC LENGTH	RADIUS	DELTA ANGLE	TANGENT	CHORD BEARING	CHORD LENGTH
C1	271.48'	790.00'	19°41'02"	137.06'	N12°58'19"W	270.07'
C2	223.31'	650.00'	19°41'02"	112.76'	N12°58'19"W	222.21'
C3	49.85'	50.00'	57°07'21"	27.26'	N04°49'26"E	47.81'
C4	147.10'	650.00'	12°58.42"	73.90'	N08°08.50"W	146.83'
C5	48.53'	50.00'	55°37.08"	26.44'	N51°17.46"W	46.64'
C6	17.64'	650.00'	1°33.20"	8.82'	N44°01.08"W	17.64'
C7	55.54'	650.00'	4°53.51"	27.78'	N39°31.26"W	55.52'
C8	55.54'	650.00'	4°53.51"	27.78'	N34°37.75"W	55.52'
C9	57.10'	650.00'	5°01.93"	28.60'	N29°38.53"W	57.08'
C10	68.32'	790.00'	4°57.28"	34.20'	N29°18.05"W	68.14'
C11	67.98'	790.00'	4°55.60"	34.01'	N34°21.28"W	67.96'
C12	64.80'	790.00'	4°42.13"	32.48'	N39°32.25"W	64.84'
C13	70.21'	790.00'	5°05.20"	35.13'	N43°36.53"W	70.18'
C14	56.74'	650.00'	4°59.98"	28.14'	N48°18.05"W	56.72'
C15	123.47'	600.00'	11°47.25"	61.95'	N38°59.39"W	123.26'

ROBERT M. SEARS
REGISTERED LAND SURVEYOR
TENNESSEE NO. 2109

LEGEND

LOT NUMBER	1
STREET ADDRESS NUMBER	3018
IRON ROD (OLD)	IR(O)
IRON ROD (SET)	
PROPERTY LINE	
PHASE LINE	
OVERHEAD POWER LINE	OH
SANITARY SEWER LINE	SA
SEWER FORCE MAIN	FM
STORM SEWER LINE	STRM
WATER LINE	W
GAS LINE	G
TELEPHONE RISER	TR
TELEPHONE PEDESTAL	TP
ELECTRIC RISER	ER
UTILITY POLE	
GUY WIRE	
LIGHT POST	
SANITARY SEWER MANHOLE	
CURB INLET	
FIRE HYDRANT	FH
WATER METER	
WATER VALVE	
SIGN	
CONCRETE	

659 GRASSMERE PARK DRIVE
SUITE 100
NASHVILLE, TN 37211
(615) 385-4144

HARVEST POINT
PHASES 13B & 13C
FINAL PLAT

SPRING HILL, 2ND DISTRICT, MAURY COUNTY, TENNESSEE

TOTAL AREA: 380,502 SQFT (8.74 AC.) TOTAL LOTS: 31

DATE: 11-02-2020
REV: 11-16-2020
REV: 11-30-2020

S&ME PROJECT #514719062 SHEET 2 OF 2

L:\2019\5147-19-062_DP Development_Harvest Pt Phase-10A,B,C &13A&B_Brentwood\CAD\Survey\514719062_Final Plat_Phases 13B & 13C_Sheet 2_2020-11-02.dwg-Sheet B Nov 30, 2020 - 8:26am zbooks

RESOLUTION 25-155

A RESOLUTION TO AUTHORIZE THE PURCHASE OF A TRACTOR AND TOP DRESSER FOR THE PARKS DIVISION THROUGH SOURCEWELL CONTRACT

WHEREAS, the City of Spring Hill Parks division desires to purchase a top dresser and Kubota tractor through Sourcewell pricing; and

WHEREAS, the City is currently a member of Sourcewell; and

WHEREAS, the Sourcewell contract pricing for the top dresser is $39,646.15 through Smith Turf and Irrigation and the Sourcewell contract pricing for the Kubota tractor is $42,249.37 through Kubota; and

WHEREAS, funding for the purchase of the tractor and top dresser are budgeted in the FY26 budget year in the Parks Maintenance Division (110-44700-59421 - $95,000.00).

NOW, THEREFORE BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen, authorize the purchase of one Kubota Tractor from Kubota for a total price of $42,249.37 and one Top Dresser through Smith Turf and Irrigation for a total price of $39,646.15 through the Sourcewell contract.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST:	***Approval of Resolution 25-155***
SUBMITTED BY:	**Tyler Scroggins, Public Works Director**
DATE:	**July 7, 2025**
RE:	**To authorize the purchase of a Kubota Tractor and Top Dresser through the Sourcewell Contract**
ATTACHMENTS:	**Quotes – Kubota and Smith Irrigation**

PURPOSE:

The purpose of this resolution is to approve the purchase of a Kubota tractor and top dresser through the Sourcewell contract.

BACKGROUND:

City staff have received price quotes from Kubota for the Kubota Tractor and price quotes from Smith Irrigation for the Top Dresser. The pricing is through their contracts with Sourcewell, of which the City is a member.

The Kubota Tractor cost $42,249.37 and the Top Dresser cost $39,646.16.

FINANCIAL IMPACT:

The funding for the equipment will be from the Parks Division (110-44700-59421) as budgeted for in the FY 26 budget - **$95,000.00 budgeted**.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-155 to approve the purchase a Kubota Tractor and Top Dresser for the Parks Maintenance Division through Sourcewell contract.

SMITH TURF & IRRIGATION

EQUIPMENT QUOTATION

Quoted To:
Spring Hill

Quoted From:
Nashville Office
525 Fairground Ct
Nashville, TN 37211

Account Executive: Jeff Wyatt
704-512-9121

Qty	Model	Description	Unit Price	Extended
1	**44931**	**MH-400 SH2 Base**		
1	44723	ProPass/MH-400 Hopper Vibrator		
1	44944	MH-400 Twin Spinner (SH/EH)		
			Total	$39,646.15

Sourcewell Contract Pricing
Contract Number: #031121-TTC

***Sales Tax Not Included**

Payment Terms: **Net 10th Prox (Upon Credit Approval)**

Sales Tax is subject to change based on the current rules and regulations in effect at the time of delivery.

Prices and terms shown will be valid for 30 days from the quoted date.

Sub Total	$39,646.15
Est. Sales Tax	
Total	$39,646.15

Quote Prepared By: Jeff Wyatt **Date:** 6/27/2025

Quote Accepted By: _____ **Date:** _____

Allied Airport

Sourcewell
Ground Maintenance, CE, Utility
Tractors, Mowers, RTV's - 112624-KBA
Ag Tractors with Related Attachments - 082923-KBA
NJPA Arkansas 4600041718
Nebraska 14777 (OC)
Mississippi 8200067336

MX5400HST WEB QUOTE #2886041
Date: 6/16/2025 5:46:15 AM
-- Customer Information --
KOVZELOVE, BRYAN
37473
CITY OF SPRING HILL
bkovzelove@springhilltn.org
9319228540

Quote Provided By
COLUMBIA KUBOTA
Jason Osborne
1120 RIVERSIDE DR.
COLUMBIA, TN 38401
email: jason@columbiakubota.com
phone: 9317975362

-- Standard Features --

Kubota

M Series

MX5400HST
UTILITY TRACTOR, 4WD, 2 POST FOLDABLE ROPS, HST TRANSMISSION
* * * EQUIPMENT IN STANDARD MACHINE * * *

DIESEL ENGINE
Model # V2403
Direct injection
4 Cyl. 148.6 cu. in.
^ 53.8 Net Eng. HP
^ 46.5 PTO HP
@ 2700 Eng. rpm
EPA Tier 4 Emmission Cert.
Turbo Common Rail Electronic Fuel Injection
12V - 600 CCA Battery
Charging Output 45 Amps

HYDRAULICS
Open Center - Gear Pump
4.9 gpm Power Steering
9.5 gpm Remote/3 Pt. Hitch
14.4 gpm Total Hyd. Flow
Cat I/II 3-point Hitch
At lift Point 2870 lbs.
24" Behind 2310 lbs.
Telescoping Lower Links
Telescoping Stabilizers

^ Manufacturer Estimate

FRONT AXLE
Hydrostatic Power Steering
4WD: Cast Iron, Bevel Gear

TRANSMISSION
3 Range Low/Med/High
Cruise Control Standard
Mech. Wet Disc Brakes
Left Side Brake Pedals
Rear Differential Lock

FLUID CAPACITY
Fuel Tank 13.5 gal
Cooling System 6.9 qts
Crankcase with filter 7.4 qts
Transmission and
Hydraulics 11.6 gal

POWER TAKE OFF
Live-Independent Hydraulic
540 rpm Rear PTO
@ 2700 Eng. rpm
SAE Std 1 3/8" Six Spline

SAFETY EQUIPMENT
2-Post Foldable ROPS w/
Retractable Seat Belt
Flip-Up PTO Shield
Safety Start Switches
Parking Brakes
Electric Key Shut Off
Turn Signals
SMV Sign

OPERATORS PLATFORM
Semi-Flat Deck w/Hanging Pedals
High Back Seat with Adjustable
Suspension
Rubber Floor Mat
Stationary PTO Switch
Cup Holder
Color Coded Controls

INSTRUMENTS
Tachometer/Hour Meter
Fuel Gauge Meter
Warning Symbols
Coolant Temperature Meter

SELECTED TIRES
sub57
FRONT - LSW305R343 R3 TITAN GRIZZ LSW 430
REAR - LSW610R470 R3 TITAN GRIZZ LSW 430 8STUD

-- Custom Options --

MX5400HST Base Price:	$36,912.00
(1) 1ST POS LEVER KIT MX5400/MX6000 ROPS MX6881A-1ST POS LEVER KIT MX5400/MX6000 ROPS	$616.00
(1) DOUBLE ACTING VALVE FOR MX L8303-DOUBLE ACTING VALVE FOR MX	$303.00
(1) 2ND POS LEVER KIT MX5400/MX6000 ROPS MX6882A-2ND POS LEVER KIT MX5400/MX6000 ROPS	$306.00
(1) FLOAT DETENT VALVE SECTION L8304-FLOAT DETENT VALVE SECTION	$381.00
(1) 7PIN CONNECTOR KIT MX5400/MX6000 ROPS MX6880-7PIN CONNECTOR KIT MX5400/MX6000 ROPS	$136.00
(1) LOADER VALVE FOR ROPS MODELS MX2131-LOADER VALVE FOR ROPS MODELS	$963.00
(1) FRONT LOADER MX SERIES W/O VALVE LA1065A-FRONT LOADER MX SERIES W/O VALVE	$5,683.00
(1) 72" Q.A. SQUARE BACK BUCKET / GL40'S L2235A-72" Q.A. SQUARE BACK BUCKET / GL40'S	$895.00
(1) BUCKET/ATTACHMENT LEVEL INDICATOR (ROD TYPE) MX2140-BUCKET/ATTACHMENT LEVEL INDICATOR (ROD TYPE)	$94.00
(1) FIBERGLASS CANOPY E1134-FIBERGLASS CANOPY	$494.00
(1) MOUNTING BRACKET FOR CANOPY E1136-MOUNTING BRACKET FOR CANOPY	$245.00
(1) GRILL GUARD FOR LA1065A MX2268A-GRILL GUARD FOR LA1065A	$359.00
(1) SEAT ARM REST KIT PNF ZG1341-SEAT ARM REST KIT PNF	$78.00
Configured Price:	$47,465.00
Sourcewell Discount:	($10,442.30)
SUBTOTAL:	$37,022.70
2Yr MX5400HST Extended Warranty	$1,250.00
Factory Assembly:	$325.00
Dealer Assembly:	$889.17
Freight Cost:	$862.50
PDI:	$400.00
ASSEMBLY	$1,500.00
Total Unit Price:	$42,249.37
Quantity Ordered:	1
Final Sales Price:	$42,249.37

Purchase Order Must Reflect Final Sales Price.

To order, place your Purchase Order directly with the quoting dealer

*Some series of products are sold out for 2022. **All equipment specifications are as complete as possible as of the date on the quote. Additional attachments, options, or accessories may be added (or deleted) at the discounted price.** All specifications and prices are subject to change. Taxes are not included. The PDI fees and freight for attachments and accessories quoted may have additional charges added by the delivering dealer. These charges will be billed separately. Prices for product quoted are good for 60 days from the date shown on the quote. All equipment as quoted is subject to availability.

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198.143.47.23

RESOLUTION 25-156

A RESOLUTION TO AUTHORIZE THE PURCHASE OF A SPRING HILL VOYAGER TRAILBLAZER CAMERA SYSTEM FOR THE STORMWATER DIVISION THROUGH SOURCEWELL CONTRACT

WHEREAS, the City of Spring Hill Stormwater division desires to purchase Spring Hill Voyager Trailblazer camera system through Sourcewell pricing; and

WHEREAS, the City is currently a member of Sourcewell; and

WHEREAS, the Sourcewell contract pricing for the camera system is $139,539.00 through Aries Industries; and

WHEREAS, funding for the purchase of the camera system is budgeted in the FY26 budget in the Stormwater Division (416-43150-59421 - $155,000.00).

NOW, THEREFORE BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen, authorize the purchase of a Spring Hill Voyager Trailblazer camera system for a total price of $139,539.00 through the Sourcewell contract.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-156***

SUBMITTED BY: **Tyler Scroggins, Public Works Director**

DATE: **July 7, 2025**

RE: **To authorize the purchase of a Spring Hill Voyager Trailblazer Camera System through the Sourcewell Contract**

ATTACHMENTS: **Quote**

PURPOSE:

The purpose of this resolution is to approve the purchase of a Spring Hill Voyager Trailblazer camera system through Sourcewell contract.

BACKGROUND:

City staff has received a price quote for a Spring Hill Voyager Trailblazer camera system from Aries Industries. The pricing is through their contract with Sourcewell, of which the City is a member.

The cost is $139,539.00.

FINANCIAL IMPACT:

The funding for the equipment will be from the Stormwater Division (416-43150-59421) as budgeted for in the FY 26 budget - **$155,000.00 budgeted**.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-156 to approve the purchase of a Spring Hill Voyager Trailblazer camera system through Sourcewell contract.

ARIES INDUSTRIES, INC.
550 Elizabeth Street
Waukesha, WI 53186

Phone 262-896-7205 Fax: 262-896-7099

Sourcewell Awarded Contract
Contract # 120721-ARS

QUOTATION

Quote Number: S250620

Page: 1 of 1

Quote To:

City of Spring Hill
199 Town Center Parkway
P.O. Box 789
Spring Hill TN 37174
USA

Sourcewell Account #: 37473

Phone: 931-486-2252 Fax:

Date: 6/20/2025
Valid Thru: 7/20/2025
Sales Person: Greg Fry
Terms of Sale: FOB Dest PPD
Payment Terms: Pre Paid
Ship Via: UPS Freight

Fax: 262-896-7099
greg.fry@ariesindustries.com

US Dollars

Line	Part Number	Quantity	Description	Unit Price	Extended Price
	Sourcewell Contract Pricing *Per specifications dated 6/20/2025* *Estimated delivery 16-18 weeks*				
1	CFG-Trb-175	1.00 EA	Spring Hill Voyager-Trailblazer System with Washdown	139,539.00	$139,539.00
2	970000	1.00 EA	In-Field Training by Aries Staff on Aries Equipment		$0.00
	Line (2) is for order fulfillment purposes only				

I accept the Terms and Conditions of this Quotation.

PO #: _____

Name: _____
Title: _____
Signature: _____

Sub Total:	**$139,539.00**
Misc. Charges:	**$0.00**
Total:	**$139,539.00**

*** TOTAL SUBJECT TO CHANGE FOR TAXES AND FREIGHT ***
A restocking charge of 15% will apply to all unused returned parts

Spec #S250620 *Equipment* *City of Spring Hill, TN*
June 20th, 2025 *Specifications*

Sourcewell Awarded Contract Contract # 120721-ARS

ARIES INDUSTRIES, INC.

Voyager System in a Trailblazer Enclosure with Washdown

REF Quote Line 1 – System Details

1 Aries Trailblazer enclosure, including:
- 1 Lightweight, corrosion-resistant aluminum frame with access panels, 48”w X 53”h X 31”d
- 1 Front top-hinged gas assist door / sunshade
- 2 Storage drawers, 250lb capacity each
- 1 Interior LED lighting system
- 4 120V AC outlets
- 2 USB power ports
- 1 Electric distribution panel and circuit breaker box
- 1 House power exterior connection with cover
- 1 35’ house power cord with plug and socket
- 1 Pole storage inside of front door

1 Water wash down system for equipment clean-up including:
- 1 Water storage tank, 5-gallon
- 1 Set of fill, vent and drain connections
- 1 Water tank demand pump
- 1 25’ retractable wash down hose with spring-loaded hand nozzle

1 22” LCD flat panel monitor, TV/PC viewing, mounted in the Trailblazer enclosure

1 Ultra compact computer system, including:
- 1 Compact PC housing, with features including:
  - Intel 13th Gen 10-Core i5-1135U processor
  - 16GB of RAM
  - 512GB solid state hard drive, storage
  - (2) HDMI 2.1 ports
  - (6) USB ports, (2) USB Type C (back) + (2) USB3.2 Gen2 (front) + (2) USB2.0 (front)
  - Super Fast 2.5G LAN + WiFi 6 Module
- 1 Wireless keyboard and optical mouse
- 1 Windows 11 Pro operating system, 64-bit

1 HD Video Capture Card

1 Debut video capture software package, recording only
- 1 USB video capture device

1 Aries DC400 Voyager All-in-One Desktop Controller, including:
- 7" color flat touch-screen status & diagnostics monitor
- Sealed connector for interconnect cable to reel

Camera controls
Tractor controls
Reel controls
Internal overlay module with footage & inclination
Alphanumeric full "QWERTY" keyboard for video titling and report data input

1 Storage and transportation case *(460281)*

1 Truck mount inter-connect cables

1 Aries HD400 Voyager zoom, rotate & horizontal pan camera w/ high-intensity LED lighting and integrated self-cleaning lens wiper system, including:

Voyager zoom pan and tilt camera w/ multi-axis infinite rotation
Integrated on-demand self-cleaning lens wiper system
120X zoom (10X optical & 12X digital)
High-resolution 1080(V) x 1920(H) output
Auto-focus with manual override
Auto-iris with manual override
Maintenance-free directional white LED lighting that follows the camera's field of view
High-sensitivity camera sensor for low-light applications
"Starlite" low-light level amplification feature with (4) user selectable amplification steps
Automatic home feature with forks at top and bottom of camera head
"One Touch Scanning" feature with (2) user selectable continuous joint scan presets
"Quick Look" preset view positions (6) (Up, Down, Right, Left, Lat R, Lat L)
Robust, environmentally sealed camera for use in live pipe, including:
Scratch-resistant sapphire lens window
Camera recessed behind forks for frontal impact protection
Rubber bumpers on forks
Camera housing with hardened metal finishes and non-corrosive metals
Recessed fasteners & no camera protrusions
Proportionately slowed camera movements when zooming
Fast-check internal pressure monitoring system
On-screen camera diagnostics functions including:
Camera internal pressure, temperature, operating hours, internal power regulated voltage value, camera model, serial number, firmware revision, control error recognition, LED current value.

1 Camera storage and transport case *(460283)*
1 Camera nitrogen recharge kit *(950011)*

1 Aries TR400 Voyager steerable self-propelled transporter for 6" relined to 24" lines, including:

Transporter assembly with continuous duty 120-Watt brushless drive motors
Remotely-operated electric camera lifting mechanism
Fast-check pressure monitoring system
Rear viewing camera with LED lighting
512 Hz internal locating beacon
Integrated inclinometer system

6 Rubber wheels, 3-3/8" diameter for 6" lines *(580660)*
4 Rubber wheels, 4-3/8" diameter for 8-12" lines *(580661)*
4 Rubber wheels, 5" diameter for 12-18" lines *(580662)*
4 Extended hub dually rubber wheels, 5" diameter for 18-24" lines *(580663)*

1 Auxiliary detachable light head *(LH40)*
1 Set maintenance parts *(950351)*
1 Storage and transport case *(460282*

2 Carbide high traction wheels, 3⅛" dia. for 6" lines, coarse grit *(580721-2)*
2 Carbide high traction wheels, 3⅞" dia. for 8-12" lines, coarse grit *(580722-2)*
2 Carbide high traction wheels, 5" dia. for 12-18" lines, coarse grit *(580723-2)*
2 Ext. hub carbide high traction wheels, 5" dia. for 18-24" lines, coarse grit *(580724-2)*

1 MR400 Mobile Voyager cable and reel assembly, including:
1 Lightweight aluminum frame
1 Drum and motor assembly with electric clutch
1 800' of 6-conductor Kevlar-strengthened cable with water-block to prevent wicking
1 6-pin cable termination
1 Cable level wind assembly with one-button adjustment
1 Distance meter encoder
1 Cable guide rollers on extendable downrigger assembly with single-button deployment and spring-loaded top roller for easy cable removal.
1 Travel brake
1 Sealed electronics box on side of reel with:
1 300VDC power supply and CANbus cable management system
1 Integrated isolation transformer
1 Sealed continuous contact 6-conductor slip ring assembly
1 Front-mounted emergency stop push button switch
1 Front-mounted AC power switch
1 120 VAC power input plug with cord
1 Rear-mounted controller cable connector
1 Front and rear mounted handheld pendant connectors
1 HC400 handheld pendant with 15' coiled cable for at-manhole operation of reel & transporter
1 Wireless Xbox One X style handheld controller *(822655)*

1 Cable manhole guide system including:
1 Manhole top roller assembly
1 Insertion and extractor hook assembly and tractor adapter
1 Set of (10) fiberglass extension poles for TrailBlazer storage, 40in
1 Tiger tail bottom cable guide

2 Operation / maintenance and spare parts manuals
1 Maintenance tool kit
1 Delivery of system
1 One year warranty, TV system

REF Quote Line 2 – On-Site

1 Day of in-field training by Aries staff on Aries equipment

RESOLUTION 25-157

A RESOLUTION TO AUTHORIZE THE PURCHASE OF A PETERSEN KNUCKLEBOOM FOR THE SANITATION DIVISION THROUGH SOURCEWELL CONTRACT

WHEREAS, the City of Spring Hill Sanitation division desires to purchase a Petersen Knuckleboom through Sourcewell pricing; and

WHEREAS, the City is currently a member of Sourcewell; and

WHEREAS, the Sourcewell contract pricing for the kunckleboom is $224,182.00 through CMI; and

WHEREAS, funding for the purchase of the Petersen Knuckleboom is budgeted in the FY26 budget in the Sanitation Division (210-43200-59411 - $609,860.00).

NOW, THEREFORE BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen, authorize the purchase of a Peterson Knuckleboom for a total price of $224,182.00 through the Sourcewell contract.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-157***

SUBMITTED BY: **Tyler Scroggins, Public Works Director**

DATE: **July 7, 2025**

RE: **To authorize the purchase of a Petersen Knuckleboom through the Sourcewell Contract**

ATTACHMENTS: **Quote**

PURPOSE:

The purpose of this resolution is to approve the purchase of a Peterson Knuckleboom through Sourcewell contract.

BACKGROUND:

City staff has received a price quote for a Peterson Knuckleboom from CMI. The pricing is through their contract with Sourcewell, of which the City is a member.

The cost is $224,182.00.

FINANCIAL IMPACT:

The funding for the vehicle will be from the Sanitation Division (210-43200-59411) as budgeted for in the FY 26 budget - **$609,860.00 budgeted**.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-157 to approve the purchase of a Peterson Knuckleboom through Sourcewell contract.

CMI Equipment Sales, Inc.
P.O. Box 1528
Goodlettsville, TN 37070
www.cmiequip.com 615-227-7800

QUOTE - DO NOT PAY

Quote: 01-7177
Date: 6/27/2025

PO:
CustId: C/ SPRING HILL

Cust Email: jbrown@springhilltn.org
Phone: (931) 486-1265
Salesperson: NickC
User: Admin

Bill To:
City of Spring Hill
PO Box 789
3893 MAHLON MOORE ROAD
Spring Hill, TN 37174

Ship To:
City of Spring Hill

Sourcewell #040621-PII
Multiple units expected in July 2025, subject to prior sale

Item	Type	Description	Qty	Tax	Price	Discount	Net Price
TL3	**QU**	**Petersen TL3**	**1.0000**		**$224,182.00**		**$224,182.000**
		PT - TL3 Lightning Loader Chassis: 2026 Freightliner M2 Plus Chassis: Allison 3500 RDS Chassis: Cummins 300HP Chassis: 33,000 GVW Dump Body: HDX-2030 Hardox Body 1/8" Sides, 3/16" Floor Dump Body: No Tarp Option Dump Body: ANSI Z245 Package Dump Body: Body Color: Black Dump Body: Std. Barn Doors for Body Dump Body: Wire Loom for Body Wiring Dump Body: LED Type Body Lights, 15 EA. Dump Body: Amber LED Flashers in Rear Corner Post Loader: Model TL3 Base Loader Loader: Tandem Pump in lieu of single 18 GPM Loader: HD Swing Motor Loader: HDHI Outrigger Strobe Loader: Standard 60" Bucket Loader: Standard Height Pedestal Loader: Quadstick Mech. Controls Loader: Grating Heat shield(Dual Controls Only) Loader: Boom-Up Warn. Light/Audible Alarm Loader: Hose Guards-Head & Valve Bank Loader: HD Control Box w/Throttle Eng. Kill & Horn Loader: Loader single color PI Orange					
		Total TL3					**$224,182.00**
						Total:	**$224,182.00**

Totals

Sub Total:	**$224,182.00**
Total Tax:	**$0.00**
Invoice Total:	**$224,182.00**

RESOLUTION 25-158

A RESOLUTION TO AUTHORIZE STREETS REPAVING UNDER THE ANNUAL CONTRACTS FOR FY 2026

WHEREAS, the City of Spring Hill Board of Mayor and Alderman previously approved the selection of Rogers Group for the annual asphalt paving contract; and

WHEREAS, City staff recommends the following streets be repaved as needed under FY 2026 budget year, paid from the budgeted funds in State Street Aid Fund ($1,837,076.00) and the General Fund ($3,500,000.00); and

Autumn Ridge – repaving (est.)	$ 1,008,573.00
Campbell Station – repaving (est.)	$ 519,281.75
Jackson Jones – repaving (est.)	$ 101,388.25
Denning Lane – repaving (est.)	$ 439,512.00
Creekwood Heights – repaving (est.)	$ 38,726.50
Sutherland Drive – repaving (est.)	$ 210,471.00
Anderson Acres – repaving (est.)	$ 116,116.00
Buckner Road – repaving (est.)	$ 459,673.25
(this does not include shoulder repair)	
Meadowbrook	$ 515,538.25
Whispering Woods – repaving (est.)	$ 465,823.00
TOTAL	**$3,874,653.00**
10% - Contingency	**$ 387,465.30**
GRAND TOTAL	**$4,262,118.30**

WHEREAS, the repaving expenses will be paid from State Street Aid and General Fund budgeted funds and remaining budgeted funds will be used for miscellaneous street repairs as needed; and

WHEREAS, City staff has presented and received a favorable recommendation from the City's Transportation Advisory Committee on May 19, 2025.

NOW, THEREFORE BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen, authorizes streets repaving, as detailed, under the annual paving contract Rogers Group for FY 2026 and approves Resolution 25-158.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-158, FY26 paving projects***

SUBMITTED BY: **Tyler Scroggins, Public Works Director**

DATE: **July 7, 2025**

RE: **FY26 Paving Project**

Attachments: **Quote and Maps**

BACKGROUND:

Public Works staff has conducted a physical inspection of the streets within the city limits. The asphalt topping was scored in one of five categories: very poor, poor, fair, good and very good. Priority for repaving is generally focused on the very poor and/or the poor category.

Based on that analysis, the condition of the streets is poor.

Staff presented quotes from Rogers Group for the paving of the streets below to the Transportation Advisory Committee on May 19, 2025, and received a favorable recommendation. Staff propose the following streets be paved in FY2025-2026 utilizing Rogers Group (currently under an asphalt contract with the city).

Autumn Ridge – repaving (est.)	$ 1,008,573.00
Campbell Station – repaving (est.)	$ 519,281.75
Jackson Jones – repaving (est.)	$ 101,388.25
Denning Lane – repaving (est.)	$ 439,512.00
Creekwood Heights – repaving (est.)	$ 38,726.50
Sutherland Drive – repaving (est.)	$ 210,471.00
Anderson Acres – repaving (est.)	$ 116,116.00
Buckner Road – repaving (est.)	$ 459,673.25
(this does not include shoulder repair)	
Meadowbrook	$ 515,538.25
Whispering Woods – repaving (est.)	$ 465,823.00
TOTAL	**$3,874,653.00**
10% - Contingency	**$ 387,465.30**
GRAND TOTAL	**$4,262,118.30**

Any remaining funds will be used for miscellaneous paving projects that need to be repaired throughout FY2025-2026.

FINANCIAL IMPACT:

A total of $1,837,076.00 is budgeted for repairs and maintenance of roads and streets in State Street Aid (121-43190-52681) and $3,500,000.00 in General Fund (110-43110-52681).

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-158 for the proposed paving projects for FY 26.

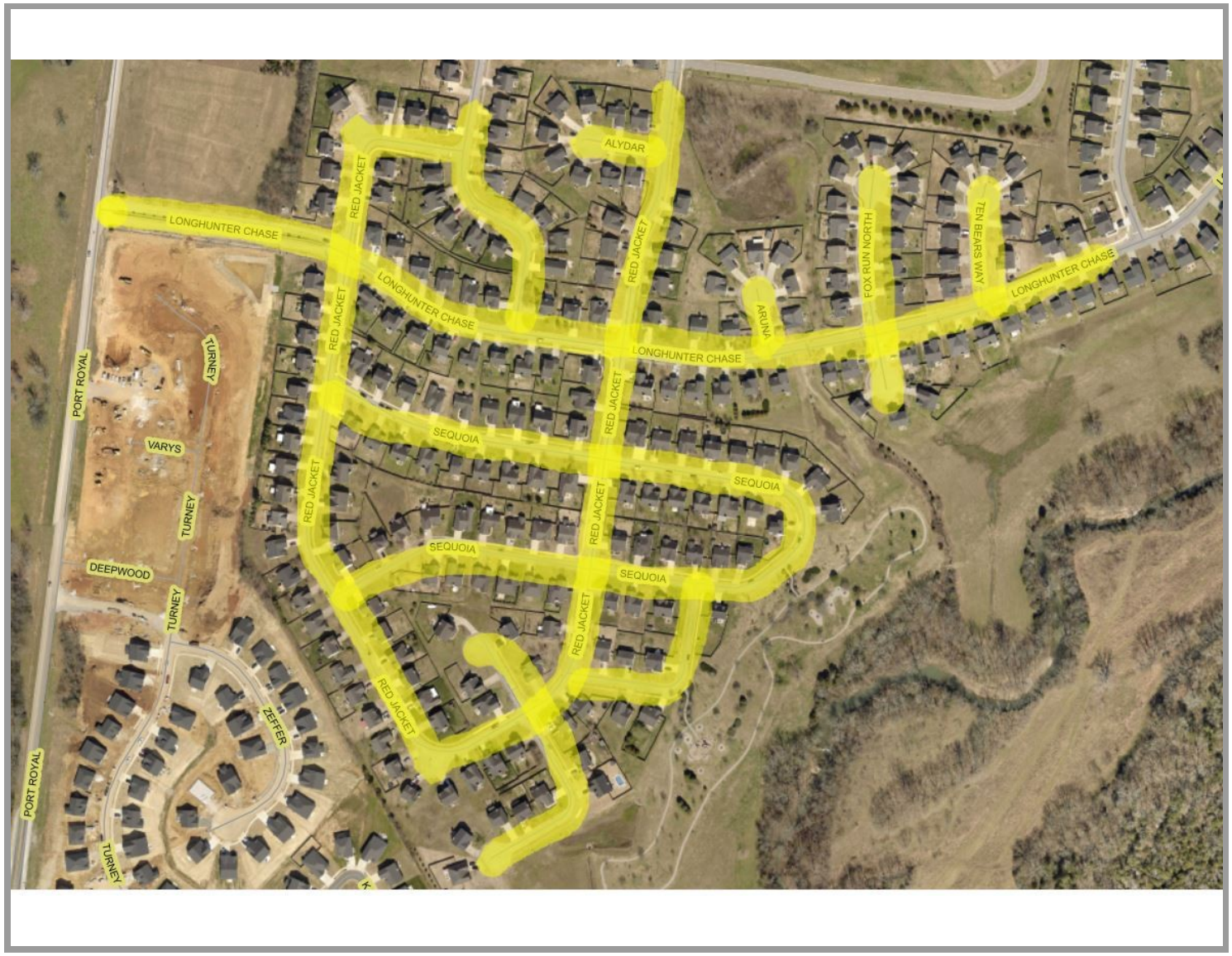
BUCKNER
OVERTON
OCOEE
OVERTON
JEFFERY
ERIC
BUCKNER
ANDERSON ACRES
BUCKNER
GENEVA
GENEVA
OVERTON

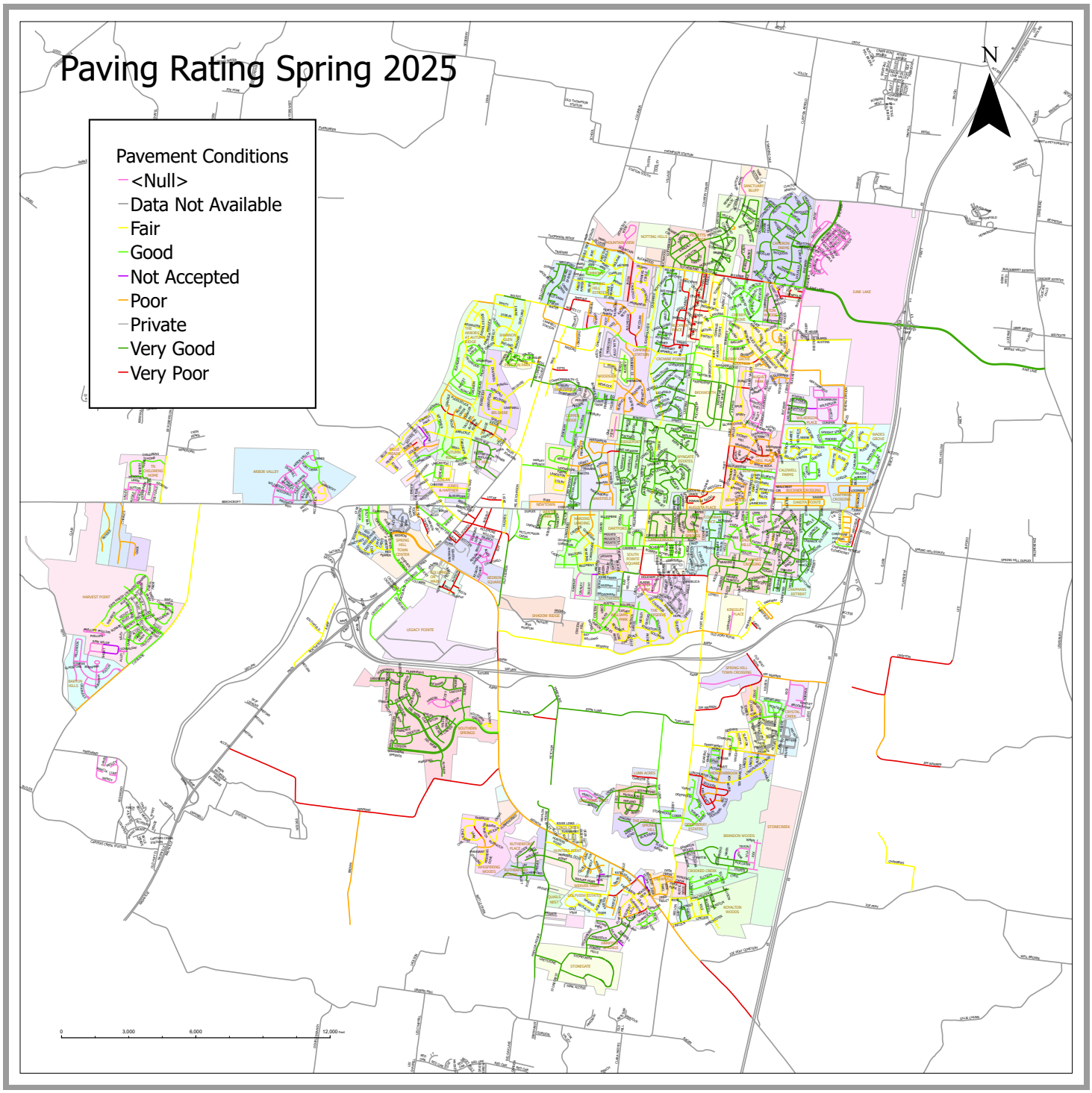
ELKHORN
ALPACA
GRUNION
HAVERSACK
PINHILL
CANTWELL
BELSHIRE
TUNSTALL
PUDDLEDUCK
MILES JOHNSON
GADWALL
KITTEMER
GRACKLE
TROUT
TRAWLER
TALLULAH
EVERLEIGH
PENDLETON
SORRELL PARK
AUTUMN RIDGE
ARBUCKLE
SPRUCE RIDGE
WINDSTEAD MANOR
BLUEBIRD HOLLOW
WITT WAY
SKADEE
CARDIGAN
BRILL
RUBEN
GOLDEN
RUBEN'S LANDING
CARNATION
CARNATION PLACE
WITT HILL
KARA
MAIN

SPEDALE
WILKES CT
HARRAH
HAVASU
MAIN
Private
HARRAH
NORTH AMBER
OHALLORN
FOOT
TREY
NORTH AMBER
AULDRIDGE
AULDRIDGE
RACHEL BETH
AULDRIDGE
CHURCHILL
CASHMERE
AULDRIDGE
MCCOURY
CAMPBELL STATION
CAMPBELL STATION COMMERCIAL
CAMPBELL STATION
FIRE STATION #3
CAMPBELL STATION
CAMPBELL STATION
CAMPBELL STATION
WALL
LONGFORD
OHALLORN
MISTY MORN
MCCOURY
NASDAQ
CAMPBELL STATION
CAMPBELL STATION

EER CREEK
DEER PARK
CREEKWOOD HEIGHTS
WINDING CREEK
PORT ROYAL
RUSTIC WOOD
BEVERLY
REC
RICE
RICE

COLUMNS
COLUMNS
PRIVATE
LUMNS
JACKSON
HUMP
JACKSON JONES
JONES
HESTA
JONES
JACKSON
JACKSON
MURPHY


ALYDAR
RED JACKET
LONGHUNTER CHASE
LONGHUNTER CHASE
LONGHUNTER CHASE
LONGHUNTER CHASE
ARUNA
FOX RUN NORTH
TEN BEARS WAY
PORT ROYAL
TURNEY
VARYS
TURNEY
DEEPWOOD
TURNEY
ZEFFER
PORT ROYAL
TURNEY
SEQUOIA
SEQUOIA
SEQUOIA
SEQUOIA
RED JACKET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Pavement Conditions
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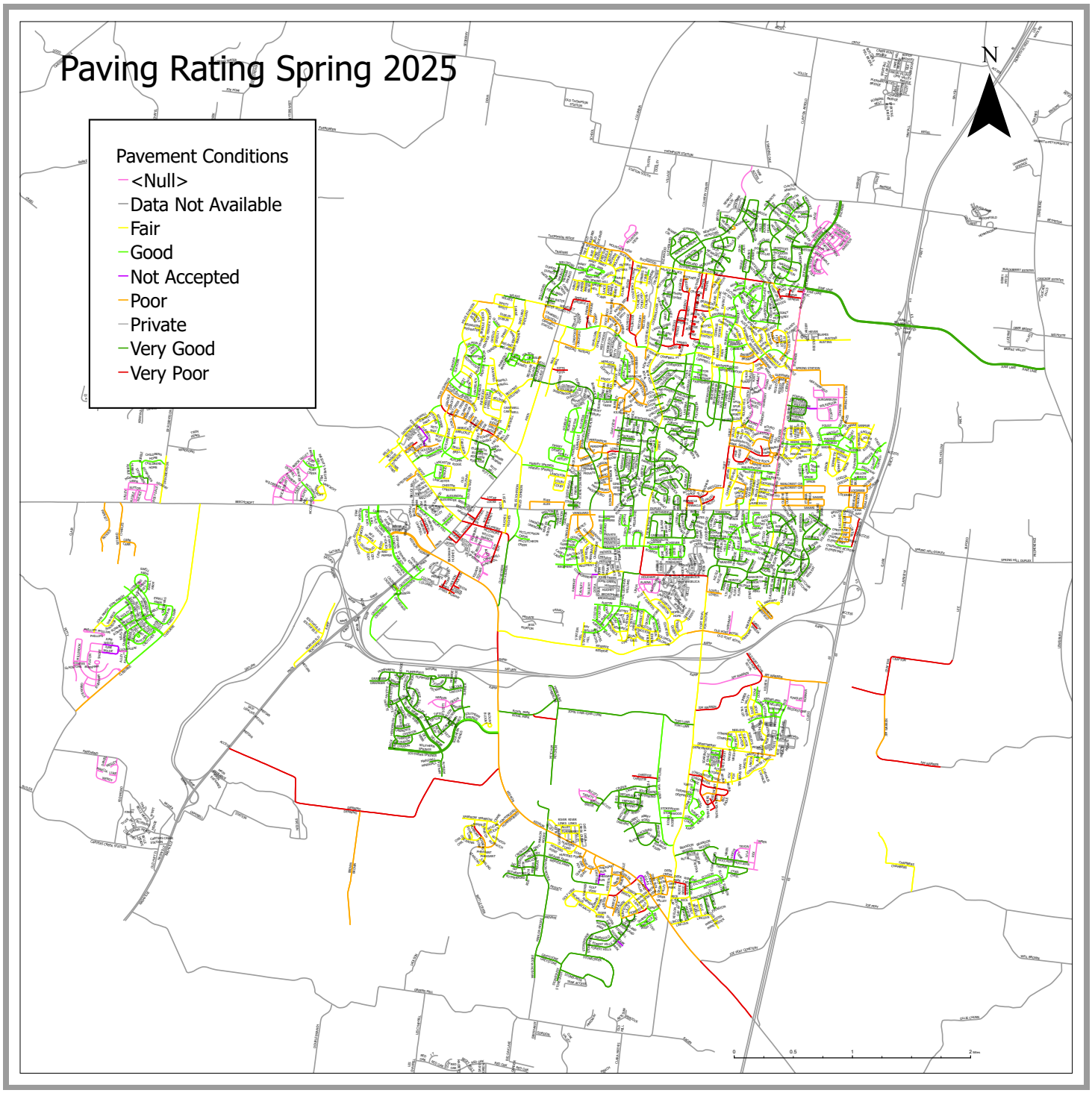
Fair
Good
Not Accepted
Poor
Private
Very Good
Very Poor
N
0
3,000
6,000
12,000 Feet


Paving Rating Spring 2025
Pavement Conditions
<Null>
Data Not Available
Fair
Good
Not Accepted
Poor
Private
Very Good
Very Poor
N
0
0.5
1
2 Miles

Proposal

PROJECT

SHCS 2025 REV

DATE

05/12/2025

*Prices Valid for thirty (30) days.

Rogers Group, Inc.
992 Baker Road
Columbia, TN 38401
931-777-9450
Alexander.jones@rogersgroupinc.com

TO: Tyler Scroggins
City of Spring Hill
199 Town Center Pkwy
Spring Hill, TN 37174
(931) 486-2252

Bid Item	Description	Quantity	UOM	Unit Price	Ext Price
1010	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1020	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	74,868.000	SY	$ 4.75	$355,623.00
1030	BIT. MATERIAL (TRACKLESS TACK)	32.000	TN	$ 700.00	$22,400.00
1040	1.5" E-MIX SURFACE	6,700.000	TN	$ 94.00	$629,800.00
				Autumn Ridge	**$1,008,573.00**
1050	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1060	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	38,533.000	SY	$ 4.75	$183,031.75
1070	BIT. MATERIAL (TRACKLESS TACK)	16.000	TN	$ 700.00	$11,200.00
1080	1.5" E-MIX SURFACE	3,450.000	TN	$ 94.00	$324,300.00
				Campbell Station	**$519,281.75**
1090	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1100	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	7,387.000	SY	$ 4.75	$35,088.25
1110	BIT. MATERIAL (TRACKLESS TACK)	3.000	TN	$ 700.00	$2,100.00
1120	1.5" E-MIX SURFACE	675.000	TN	$ 94.00	$63,450.00
				Jackson Jones	**$101,388.25**
1130	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1140	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	32,772.000	SY	$ 4.75	$155,667.00
1150	BIT. MATERIAL (TRACKLESS TACK)	13.650	TN	$ 700.00	$9,555.00

1160	1.5" E-MIX SURFACE	2,910.000	TN	$ 94.00	$273,540.00
				Denning Lane	**$439,512.00**
1170	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1180	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	2,782.000	SY	$ 4.75	$13,214.50
1190	BIT. MATERIAL (TRACKLESS TACK)	1.160	TN	$ 700.00	$ 812.00
1200	1.5" E-MIX SURFACE	250.000	TN	$ 94.00	$23,500.00
				Creekwood Heights	**$38,276.50**
1210	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1220	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	15,496.000	SY	$ 4.75	$73,606.00
1230	BIT. MATERIAL (TRACKLESS TACK)	6.450	TN	$ 700.00	$4,515.00
1240	1.5" E-MIX SURFACE	1,400.000	TN	$ 94.00	$131,600.00
				Sutherland Drive	**$210,471.00**
1250	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1260	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	8,432.000	SY	$ 4.75	$40,052.00
1270	BIT. MATERIAL (TRACKLESS TACK)	3.520	TN	$ 700.00	$2,464.00
1280	1.5" E-MIX SURFACE	775.000	TN	$ 94.00	$72,850.00
				Anderson Acres	**$116,116.00**
1290	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1300	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	34,159.000	SY	$ 4.75	$162,255.25
1310	BIT. MATERIAL (TRACKLESS TACK)	14.240	TN	$ 700.00	$9,968.00
1320	1.5" E-MIX SURFACE	3,050.000	TN	$ 94.00	$286,700.00
				Buckner Road	**$459,673.25**
1330	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1340	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	34,448.000	SY	$ 4.75	$163,628.00
1350	BIT. MATERIAL (TRACKLESS TACK)	14.350	TN	$ 700.00	$10,045.00
1360	1.5" E-MIX SURFACE	3,100.000	TN	$ 94.00	$291,400.00
				Whispering Woods	**$465,823.00**
1370	CASTING ADJUSTMENTS	3.000	EA	$ 250.00	$ 750.00
1380	COLD PLANING 1.5" DEPTH (INCL.CLEANUP&HAUL)	38,491.000	SY	$ 4.75	$182,832.25
1390	BIT. MATERIAL (TRACKLESS TACK)	16.040	TN	$ 700.00	$11,228.00

1400	1.5" E-MIX SURFACE	3,412.000	TN	$ 94.00	$320,728.00
				Meadowbrook	**$515,538.25**
Grand Total:					**$3,874,653.00**

Special Conditions:

1. Price includes mobilizations as shown. Invoice will be based on actual number of mobilizations.
2. Temporary traffic control using flaggers, where necessary, is included in our price.
3. Flagging included for RGI scope of work only.
4. Price does not include cost for permits, inspections by governing authorities, bonding, removal, demo, excavation, layout, engineering, backfill, nor anything unstated above.
5. Price does not include undercutting of subgrade due to failure.
6. No permanent traffic control is included in our price.
7. Price does not include elevation adjustments to manholes, inlets, valve boxes, nor any other utility.
8. This quote does not include street signage unless otherwise stated in the proposal.
9. This quote does not include temporary or permanent striping unless otherwise stated in the proposal.
10. Any budgetary pricing is based on current AC index, fuel, equipment, and labor rates. Prior to material placement, price shall be updated based on current monthly rates.
11. The asphalt paving industry recommends grade for proper drainage of asphalt surface is at least 2%. Designed grades of less than 2% will increase chances of water ponding, and RGI will not guarantee
12. If GPS machine control is required, all required files for Trimble shall be provided to Rogers Group, Inc at no cost.
13. Price is based on all work to be done in 2025 construction season.
14. Rogers Group, Inc. will do no paving work in January or February of any year.
15. Subgrade, by others, shall be within +/- .1' and accepted by RGI prior to starting work.
16. After pavement placement and acceptance, RGI will not be responsible for failures caused by the construction activities of others.
17. Price is based on Unit Price contract, payable per ticketed ton or as measured in the field.
18. This proposal shall be included in any contract signed by Rogers Group, Inc.
19. Price given above is based on mutually agreeable contract between Rogers Group, Inc. and General Contractor / Owner
20. TDOT Special Provision 109B for Bituminous Adjustment is in effect for this proposal. Any and all paving scope adjustments shall be paid to RGI as such. Proposal "Basic Bituminous Index" price is: $600 (original contract index is December 2021 index of $532.50)
21. Rogers Group will not place surface course on areas where sediment filter bags are still in use in drains, catch basins, and other drainage structures.

Quotation prepared by: Alex Jones

To accept this quotation, sign here and return: _____

Name: _____

Title: _____

Date: _____

TERMS & CONDITIONS

Final and complete payment for all Work performed hereunder shall be made not later than fifteen (15) days after the completion of Work or delivery of materials. Interest at the highest legal rate allowable under the laws of the jurisdiction in which the contract is executed or one and one-half percent (1.5%) per month, whichever is less, shall be charged and paid on all unpaid balances from the due date to the date we receive payment.

RGI shall not become obligated to perform the Work called for under this contract until customer credit has been checked and approved by our Credit Department. If credit conditions become unsatisfactory at any time prior to our completion of the Work hereunder, RGI shall be furnished adequate security upon our request.

Any deviations from the specifications or modification of the terms of this contract and any extra or incidental work, or reductions in work, shall be set forth in writing and signed by both parties prior to the making of such change. Any increase or decrease in the contract price resulting from such change shall be included in such writing.

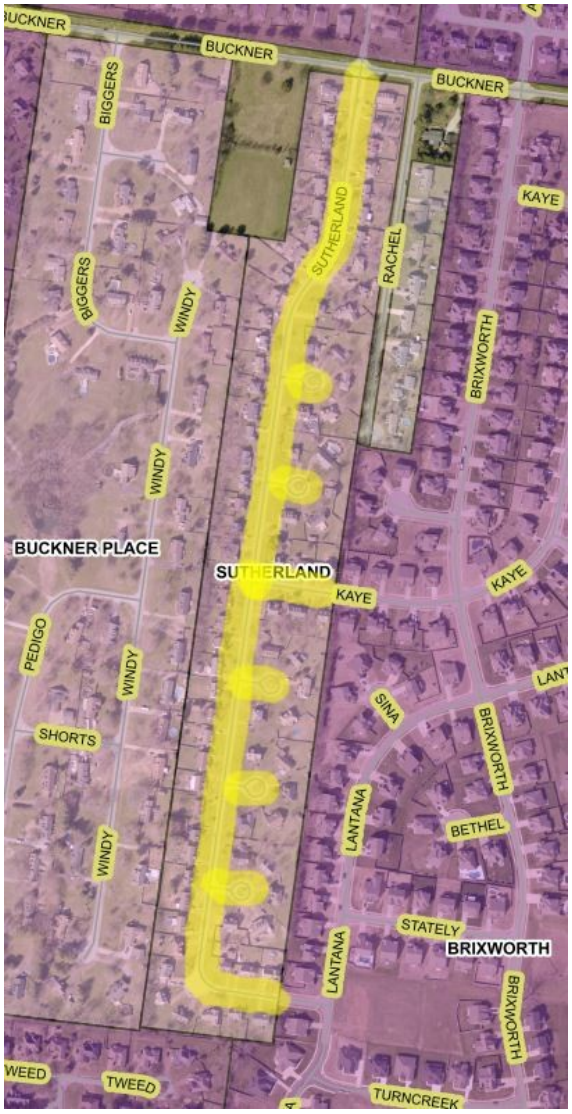
RGI shall be provided with suitable access to the work area. If RGI's Work is dependent upon or must be undertaken in conjunction with the work of others, such work shall be so performed and completed as to permit RGI to perform its Work hereunder in a normal uninterrupted single-shift operation.

Unless a time for the performance of RGI's Work is specified, RGI shall undertake it in the course of our normal operating schedule. RGI shall not be liable for any failure to undertake or complete the Work for causes beyond our control, including but not limited to fire, flood or other casualty; labor disputes or other disagreements; and accidents or other mishaps, whether affecting this work or other operations in which RGI is involved, directly or indirectly.

If for causes beyond our control our Work is not complete within twelve (12) months after the date of your acceptance of this proposal, RGI may cancel this agreement at any time thereafter on ten (10) days' notice. In such event RGI shall be (I) relieved of any further obligation with respect to the balance of the Work; and (II) entitled to receive final and complete payment for all Work performed to the date of cancellation within fifteen (15) days thereafter.

RGI shall not be responsible for, and customer agrees to hold RGI, its officers, directors, successors, assigns, agents, and employees, harmless from and indemnify them against, any liability resulting from damages to utilities or other facilities or objects buried beneath the surface; damages to sidewalks, driveways or injuries resulting from hazardous or toxic waste within the Work area. It is further understood that RGI shall not be responsible for any damage or deterioration of any of its work, whether completed or in process, resulting from any cause or causes beyond our control, including but not limited to failure of sub-grade or failure or inadequacy due to the work of others, whether or not such failure or inadequacy was or could have been known at the time our Work was undertaken.

You agree to indemnify and save RGI, its officers, directors, successors, assigns, agents, and employees harmless from and against all loss, damage, costs, expenses and attorney's fees of every kind whatsoever which may occur on account of any breach by you of this contract. This agreement shall be governed by and construed under the law of the state in which the Work is to be performed.


BUCKNER
BUCKNER
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BIGGERS
BIGGERS
SUTHERLAND
RACHEL
KAYE
WINDY
WINDY
BRIXWORTH
BUCKNER PLACE
SUTHERLAND
KAYE
KAYE
PEDIGO
WINDY
SINA
BRIXWORTH
SHORTS
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BETHEL
WINDY
STATELY
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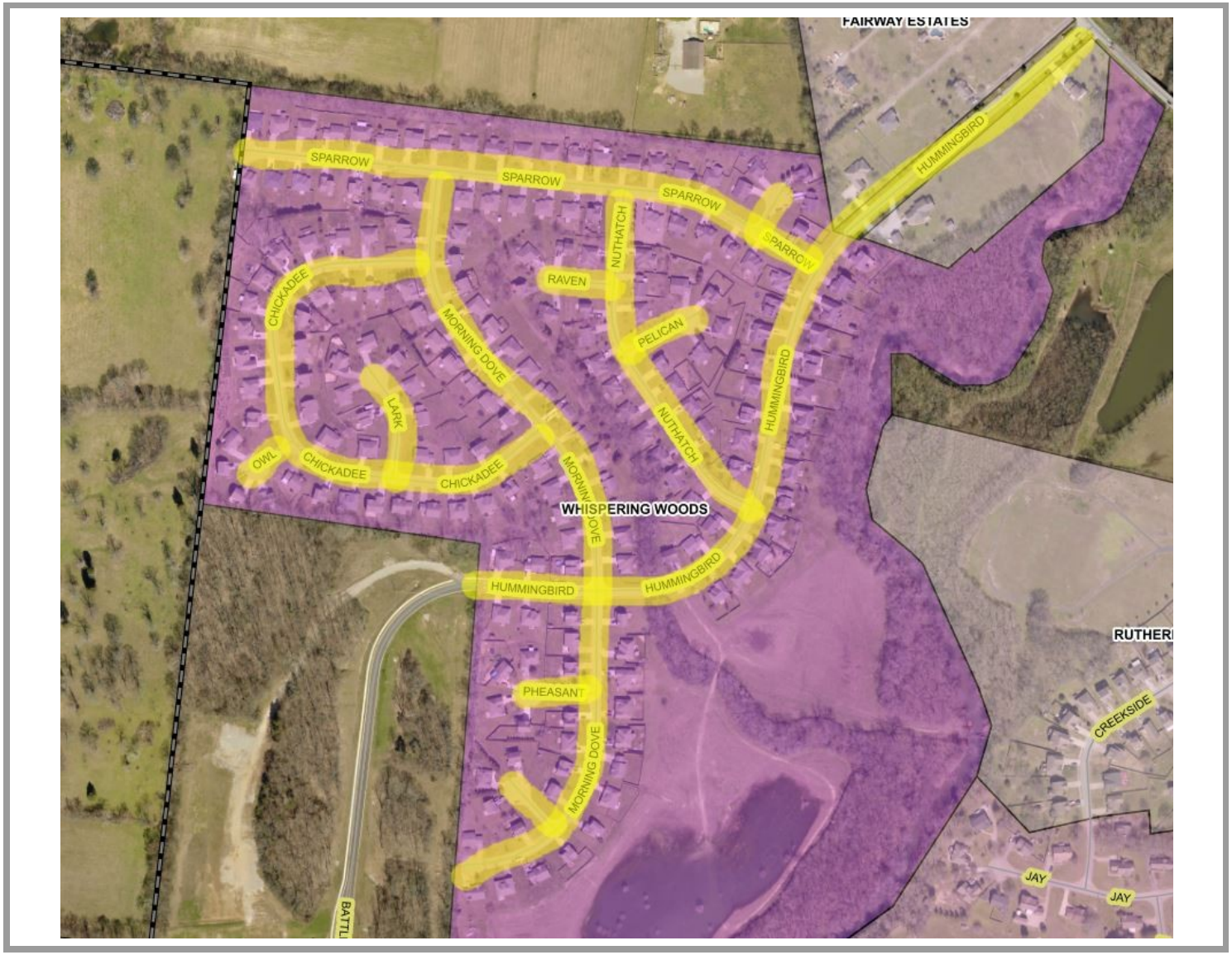
TURNCREEK


FAIRWAY ESTATES
SPARROW
SPARROW
SPARROW
SPARROW
HUMMINGBIRD
NUTHATCH
RAVEN
CHICKADEE
MORNING DOVE
PELICAN
LARK
NUTHATCH
HUMMINGBIRD
OWL
CHICKADEE
CHICKADEE
MORNING DOVE
WHISPERING WOODS
HUMMINGBIRD
HUMMINGBIRD
PHEASANT
MORNING DOVE
CREEKSIDE
JAY
JAY

RESOLUTION 25-159

A RESOLUTION TO AUTHORIZE THE PURCHASE STRUCTURAL FIREFIGHTING PERSONAL PROTECTIVE EQUIPMENT

WHEREAS, the City of Spring Hill operates a career Fire Department that responds to all hazards within the city; and

WHEREAS; it is required that the fire department provides structural firefighter gear to each firefighter for their personal protection on emergency scenes; and

WHEREAS; through group purchasing agreement and standard specifications used by the Spring Hill Fire Department, the vendor NAFECO has the Sourcewell contract on file; and

WHEREAS; delivery time for the turnout gear is within the required and needed timeframe by the department.

NOW, THEREFORE BE IT RESOLVED, the City of Spring Hill Board of Mayor and Aldermen to approve the purchase of sixteen (16) sets of structural firefighter turnout gear, eleven (11) sets of boots, and eleven (11) pairs of gloves through cooperative purchasing agreement in the amount of $57,618.00.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-159***

SUBMITTED BY: **Graig Temple, Fire Chief**

DATE: **July 7th, 2025**

RE: **To approve purchase of structural turnout gear**

PURPOSE:

The purpose of this resolution is to approve the purchase of 16 sets of structural fire turnout gear, 11 pairs of boots and gloves from NAFECO through SOURCEWELL # 032620-LIO. This will provide the necessary PPE for the newly hired staff in the Fire Department.

BACKGROUND:

NFPA recommends that every firefighter have 2 sets of structural turnout gear. The number of cancer-causing carcinogens after a fire is very high. The second set of gear would be ready to immediately swap into service while the other set is being washed clean. NFPA 1851 establishes proper PPE maintenance and limits the exposure of fire ground contaminants to firefighters.

FINANCIAL IMPACT:

Funding for this is from the Fire Department FY26 budget in the amount of $57,618.00 in Operations account 42220-53265. The gear will be purchased through SOURCEWELL # 032620-LIO.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-159 to approve the purchase of 16 sets of structural fire turnout gear, 11 pairs of boots and gloves.

North America Fire Equip. Inc.
D.B.A - NAFECO
PO Box 2928
Decatur, AL 35602
Phone: 800-628-6233

info@nafeco.com

QUOTE

Quote Number: 1315589
Date: 6/27/25
Quote Expiration: EXPIRES 30 DAYS

To: SPR125
SPRING HILL FIRE DEPARTMENT
ATTN:
440 BEECHCROFT ROAD
SPRING HILL, TN 37174
United States of America

F.O.B. Point: ORIGIN
Salesperson: JP RATLIFF
Quote Prepared By: Brittany Barber

Qty.	U/M	Item No.	Description	Each	Amount
16	EA	BARMCVFMK318-XX	LION Blackhawk V-Force Turnout Coat, K3 Stedair	1914.00	30,624.00
			WITH LETTERING AND NAME PATCH		
16	EA	BARMPVFMK318-XX	LION Blackhawk V-Force Pant, K3 Stedair Liner, Black Armor	1298.00	20,768.00
			INCLUDES SB342T SUSPENDER		
11	EA	507502-XX	Haix Boot, Fire Eagle Air Leather, 14", NFPA	462.00	5,082.00
11	EA	FC-P5000-XX	FireCraft Phoenix Leather Structural Firefighting Gloves	104.00	1,144.00
			NFPA, Gauntlet		
			SOURCEWELL CONTRACT: 032620-LIO		
			MEMBER # 37473		
			Sub-Total:		$57,618.00
			Quote Total:		$57,618.00

Thank you for your business !

NOTE: All accounts are subject to sales tax charges unless a valid state tax exempt certificate is on file with NAFECO, or provided at the time of the order.

If you have any questions concerning this quote, please call our number listed above.

Visit Us On The Internet At:

Page: 1

RESOLUTION NO. 25-160

A RESOLUTION TO AUTHORIZE THE CITY OF SPRING HILL TO EXECUTE AMENDMENT A TO THE JOINT CONTRACT BETWEEN WILLIAMSON COUNTY, TENNESSEE AND THE CITY OF SPRING HILL, TENNESSEE FOR THE CONTINUED HOUSING OF COMPUTER SERVERS AT THE WILLIAMSON COUNTY OFFICE OF PUBLIC SAFETY

WHEREAS, the City of Spring Hill, Tennessee previously entered a Joint Contract with Williamson County, Tennessee, effective July 1, 2022, for the housing of multiple computer servers at the Office of Public Safety located at 304 Beasley Drive, Franklin, Tennessee, serving multiple public benefit entities; and

WHEREAS, the original Contract provided for an initial term of three (3) years with the option to extend the Contract upon mutual written agreement of both parties; and

WHEREAS, the parties now wish to execute **Amendment A** to extend the Contract for an additional one (1) year term, with the option to further extend the Contract for up to three (3) additional one-year terms, provided all extensions are properly approved and executed as required; and

WHEREAS, the City of Spring Hill desires to continue participation in this joint agreement, which provides valuable services to the City and supports regional information technology infrastructure; and

WHEREAS, all remaining provisions of the original Contract not in conflict with this Amendment shall remain in full force and effect;

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF SPRING HILL, TENNESSEE, AS FOLLOWS:

SECTION 1. The Board of Mayor and Aldermen hereby authorizes the execution of **Amendment A** to the Joint Contract between Williamson County, Tennessee and the City of Spring Hill, Tennessee, as outlined in the attached agreement.

SECTION 2. The Mayor is authorized to sign the amendment and any related documents necessary to effectuate the intent of this resolution.

SECTION 3. This resolution shall take effect immediately upon its passage, the public welfare requiring it.

Passed and adopted this 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

APPROVED AS TO FORM:

_____
Patrick Carter, City Attorney

K#25-357

AMENDMENT A
EXTENSION TO THE JOINT CONTRACT BETWEEN WILLIAMSON COUNTY, TENNESSEE AND THE CITY OF SPRING HILL, TENNESSEE

THIS AMENDMENT A ("Amendment") is made by and between WILLIAMSON COUNTY, TENNESSEE ("County"), a county governmental entity of the State of Tennessee, and the CITY OF SPRING HILL, TENNESSEE ("City"), a municipal political subdivision of the State of Tennessee and is executed as evidenced by the undersigned and made a part of the original Joint Contract ("Contract") effective as of the 1st day of July, 2022. In the event of any conflict between this Amendment and the Contract, exhibits, or any other previously executed amendments, this Amendment shall control.

WHEREAS, County currently houses multiple computer servers at the Office of Public Safety located at 304 Beasley Drive, Franklin, Tennessee for multiple public benefit entities;

WHEREAS, the Contract was for an initial term of three (3) years with the ability to extend the Contract if agreed in writing by the parties; and

WHEREAS, the parties agree to continue to be bound by all the remaining provisions of the Contract that do not conflict with this Amendment.

NOW, THEREFORE, the parties agree to extend and amend the terms of the Contract as follows:

1. The Contract is amended by including the following clause:

The parties have agreed to extend the Contract for an additional term of one (1) year to be continuous without a break in the term. The term of the Contract shall continue on and through the 1st day of July, 2025, and end on the 30th day of June, 2026 unless otherwise terminated or extended as provided in the Contract. The Contract may be extended for three (3) additional terms of one (1) year each. To be effective, any extension must be approved by the County's Attorney and the Purchasing Agent and signed by the Williamson County Mayor. In no event shall the term of this Contract extend beyond five (5) years.

2. This Amendment shall not affect the remaining provisions of the Contract and all provisions which do not conflict with this Amendment shall remain in effect.

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be executed by their duly authorized representatives on this the _____ day of _____, 2025.

WILLIAMSON COUNTY, TENNESSE:

_____
Rogers Anderson, Williamson County Mayor

_____
Phoebe Reily, Budget Director

_____
Leslie Mitchell, Purchasing Director

_____
Connor Scott, Office of Public Safety Director

_____
Jim Ruhl, Risk Manager

_____
Williamson County Attorney

CITY OF SPRING HILL, TENNESSEE:

_____
Signature

_____
Print Name – Title

WC\Agts\Office of Public Safety\City of Spring Hill\2025\2025.05.08 Amend A to K22-195 Spring Hill-K25-357.docx

RESOLUTION 22-108

A RESOLUTION TO APPROVE A MEMORANDUM OF UNDERSTANDING BETWEEN THE CITY OF SPRING HILL AND WILLIAMSON COUNTY, TN. REGARDING THE STORAGE OF COMPUTER SERVERS

WHEREAS, Spring Hill Police Department is in the process of switching to Central Square Records Management System, (RMS) which includes computer servers; and

WHEREAS, Williamson County houses multiple computer services at the Public Safety Facility-911 Emergency Operations Centers, to include Central Square Computer Aided Dispatch, (CAD); and

WHEREAS, both parties agree that Williamson County should house the servers at their facility allowing for both parties to simultaneously access mobile data at no cost to the City; and

WHEREAS, the initial term of this Contract shall be for three (3) years and extend from July 1, 2022 to June 30, 2025, Exhibit A.

NOW, THEREFORE BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Alderman hereby approves the Memorandum of Understanding between the City of Spring Hill and Williamson County, Tn. regarding the storage of police computer servers at the Williamson County Public Safety Facility-911 Emergency Operations Center for simultaneously accessing mobile data and authorizes the Mayor to sign the Memorandum of Understanding.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 6th day of June, 2022.

Jim Hagaman, Mayor

ATTEST:

April Goad, City Recorder

LEGAL FORM APPROVED:

Patrick Carter, City Attorney

COPY

K#22-195

JOINT CONTRACT
FOR SERVER SUPPORT BETWEEN WILLIAMSON COUNTY, TENNESSEE
AND THE CITY OF SPRING HILL, TENNESSEE

THIS JOINT CONTRACT ("Contract") is entered into by and between WILLIAMSON COUNTY, TENNESSEE, a political subdivision of the State of Tennessee located at 1320 West Main Street, Franklin, Tennessee 37064 ("County"), and the CITY OF SPRING HILL, TENNESSEE, a municipal political subdivision of the State of Tennessee located at 199 Town Center Parkway, Spring Hill, Tennessee 37174 ("City");

WHEREAS, County houses multiple computer services at the Public Safety Facility-911 Emergency Operations Center located at 304 Beasley Drive, Franklin, Tennessee ("Center");

WHEREAS, the City operates the Spring Hill Police Department for its citizens located in both Williamson County and Maury County, Tennessee;

WHEREAS, the parties recently became aware of issues concerning the parties' access to the mobile data jointly and simultaneously;

WHEREAS, to remedy the issue of access to mobile data, the parties have determined that installing a City-owned and/or operated RMS server at the Center; and

WHEREAS, it is the intent of the parties to establish terms and obligations that shall be binding on the parties unless otherwise specifically excluded from the terms of this Contract.

NOW, THEREFORE, in consideration of the mutual covenants contained herein, the parties agree as follows:

COPY

ARTICLE I
PURPOSE

This Contract sets forth the obligations and duties of the parties concerning a license to use, install, and store a City-owned RMS server at the Center to permit parties to simultaneously access mobile data. The purpose of this Contract is to improve access to City's mobile data to assist in the provision of law enforcement and emergency response services.

ARTICLE II
RESPONSIBILITIES AND OBLIGATIONS

A. County shall provide, in its discretion and at a location in the Center that the County determines is suitable for the installation and maintenance of a RMS server operated by City for the purpose of providing joint access to the City's mobile data. The location shall maintain cooling and humidity levels required for the RMS server operations.
B. County shall provide access anytime during business hours for maintenance, repairs, upgrades, or decommissioning / replacement of equipment.
C. County shall be responsible for providing electricity and ethernet circuit for the RMS server operations.

ARTICLE III
TERM AND TERMINATION

A. Term.

The initial term of this Contract shall be for three (3) years and extend from July 1, 2022 to June 30, 2025. This Contract may not be extended unless agreed in writing by the parties. The option to extend shall

be exercised and in the discretion of the Williamson County Purchasing Agent. To be effective, any extension must be approved by the County's Attorney and the Purchasing Agent and signed by the Williamson County Mayor. In no event shall the term of this Contract extend beyond five (5) years.

B. Termination.

1. ***Termination - Breach.*** Should either party fail to fulfill, in a timely and proper manner, its obligations under this Contract or if it should violate any of the terms of this Contract, the nonbreaching party shall provide notice to the breaching party to cure the breach. The breaching party shall have ten (10) calendar days to cure the breach. Should the breaching party fail to cure the breach within ten (10) days, then the non-breaching party shall have the right to immediately terminate this Contract. Such termination shall not relieve the breaching party of any liability to County for damages sustained by virtue of any breach by the nonbreaching party.

2. ***Termination - Funding.*** Should funding for the services and operations of the Center be discontinued for failure of County's legislative body to appropriate the funds, County shall have the right to terminate this Contract effective as of the proceeding June 30 of the current fiscal year. Termination by County for lack of funding shall not in any way be considered a breach of the Contract by County and no penalties or liquidated damages shall be assessed against County.

3. ***Termination - Notice.*** Either party may terminate this Contract at any time upon ninety (90) calendar days' written notice to the other party. Termination will become effective ninety (90) days after the date of the notice of termination unless the termination notice provides for a different termination date beyond the ninety (90) day notice.

4. ***Termination – Agreement.*** The parties may agree in writing to terminate this Contract at any time.

COPY

ARTICLE IV
COMPENSATION

The parties acknowledge that no monetary payment shall be due to either party. The parties' obligations and requirements shall be sufficient compensation for the purposes of this Contract.

ARTICLE V
CONFIDENTIAL INFORMATION

In the performance of or otherwise in connection with this Contract, one party ("Disclosing Party") may disclose to the other party ("Receiving Party") certain Confidential Information of the Disclosing Party. "Confidential Information" means any information of either party, which is not generally known to the public, whether of a technical, business, or other nature (including, but not necessarily limited to: trade secrets, know how, computer program source codes, and information relating to County's business plans, structural vulnerability, promotional and marketing activities, finances, and other business affairs of such party); whether conspicuously marked or otherwise identified as confidential or proprietary information. To the extent permissible by applicable law, the Receiving Party will treat such Confidential Information as confidential and proprietary of the Disclosing Party and will use such Confidential Information solely for the purposes for which it is provided by the Disclosing Party and will not disclose such Confidential Information to any third party (other than a third party under contract whereby that third party has agreed in writing to keep the Confidential Information confidential).

ARTICLE VI
LIMITATION ON LIABILITY

To the extent permissible under applicable law, City acknowledges and agrees that County shall have no liability whatsoever for unauthorized access to, or alteration, theft, or destruction of, the City's data files, programs, or information through accident or fraudulent means or devices, unless caused by the gross negligence of County, its employees, subcontractors, or agents. Under no circumstances, including negligence, will County, its officers, agents, or anyone else involved in creating, producing, or distributing County's service,

be liable for any direct, indirect, incidental, special, or consequential damages that result from the use of any part of the Center.

ARTICLE VII
INSURANCE REQUIREMENTS

Without limiting its liability under this Contract, City will procure and maintain at its expense during the life of this Contract any/all applicable insurance types in the minimum amounts established and agreed by the parties but in no event lower than the replacement cost of the servers:

ARTICLE VIII
GENERAL PROVISIONS

A. ***Resolution by Court of Law; Non-binding Mediation.*** Claims, disputes, or other matters in question between the parties to this Contract arising out of or relating to this Contract or breach thereof, shall be subject to and decided by a court of law. The parties can agree to non-binding mediation prior to litigation.

B. ***Choice of Law.*** The validity, construction, and effect of this Contract and any and all extensions and/or modifications thereof shall be governed exclusively by the laws of the State of Tennessee.

C. ***Venue.*** Any action between the parties arising from this Contract shall be exclusively maintained in the courts of Williamson County, Tennessee.

D. ***Notices.***

1. Delivery. Except as otherwise provided herein, any notice or other communication between the parties regarding the matters contemplated by this Contract may be sent by United States mail (first class, airmail, or express mail), commercial courier, facsimile or electronic mail, in each case delivered to the address set forth below for the recipient.

2. Receipt. Communications shall be deemed received, if by mail, on the earlier of receipt or the third (3rd) calendar day after deposit in the mail with postage prepaid; if by courier, when delivered as evidenced by the courier's records; if by facsimile, upon confirmation of receipt by the sending telecopier; and if by electronic mail, when first available on the recipient's mail server. If received on a day other than a business day, or on a business day but after 4:30 p.m., recipient's local time, the communication will be deemed received at 9:00 a.m. the next business day.

3. Addresses.

i. If to County: Williamson County, Tennessee
1320 West Main Street, Suite 125
Franklin, TN 37064

ii. If to City: City of Spring Hill
199 Town Center Parkway
Spring Hill, TN 37174

E. ***Assignment.*** The provisions of this Contract shall inure to the benefit of and be binding upon the respective successors and assignees of the parties hereto. Assignment of this Contract or any of the rights and obligations of either party hereunder, in whole or in part, requires the prior written consent of the other party. Any such assignment shall not release the assigning party from its obligations hereunder without the express written consent of the other party.

F. ***Severability.*** Should any court of competent jurisdiction declare any provision of this Contract invalid, then such provision shall be severed and shall not affect the validity of the remaining provisions of this Contract.

G. ***Entire Agreement between the Parties.*** The complete understanding between the parties is set out in this Contract, and this Contract supersedes and voids all prior and contemporaneous understandings, proposals, letters, agreements, or conditions expressed or implied, oral or written, except as herein contained. Any amendment, modification, waiver, or discharge of any requirement of this Contract will not be effective unless in writing signed by the parties hereto or by their authorized representatives.

COPY

H. ***Drug Free Workplace.*** If applicable, City agrees to abide by all requirements set forth in Tennessee Code Annotated, Section 50-9-113, by establishing a drug free workplace program and to execute the drug free affidavit, included herewith, evidencing City's compliance.

I. ***Employment Practices.*** City shall not subscribe to any personnel policy which permits or allows for the promotion, demotion, employment, dismissal or laying off of any individual due to race, creed, color, national origin, age, sex or which is in violation of applicable laws concerning the employment of individuals with disabilities. City, if applicable, agrees to execute the Fair Employment Affidavit included in this Contract evidencing City's compliance of this policy.

J. ***Relationship Between the Parties.*** The relationship of the parties shall be that of an independent contractor. No principal-agent or employer-employee relationship is created by this Contract. The parties hereto shall not hold itself out in a manner contrary to the terms of this paragraph. No party shall become liable for any representation, act, or omission of any other party contrary to the terms of this paragraph.

K. ***Maintenance of Records***. City shall maintain documentation for all charges against County. The books, records, and documents of City, insofar as they relate to services performed or money received under this Contract, shall be maintained for a period of three (3) full years from the date of final payment and will be subject to audit, at any reasonable time and upon reasonable notice, by County or its duly appointed representatives. The books and records shall be maintained in accordance with generally accepted accounting principles.

L. ***Anti-Deficiency Clause.*** Nothing contained in this Contract shall be construed as binding County to expend any sum in excess of appropriations made by its Legislative Body for the purposes of this Contract, or as involving County in any contract or other obligation for the further expenditure of money in excess of such appropriations.

M. ***Headings.*** The headings in this Contract are for convenience and reference and are not intended to define or limit the scope of any provisions of this Contract.

N. ***Effective Date.*** This Contract shall not be binding upon the parties until it has been signed first by City and then by the authorized representatives of County and has been filed in the office of the Williamson County Mayor. When it has been so signed and filed, this Contract shall be effective as of the date first written above.

LAST ITEM ON PAGE
SIGNATURE PAGE FOLLOWS

COPY

K#22-195

IN WITNESS WHEREOF, the parties, through their authorized representatives, have affixed their signatures below.

WILLIAMSON COUNTY, TENNESSEE:

_____
Williamson County Mayor

Purchasing Agent:

_____

RECOMMENDED:
Department Head

_____
Department:

APPROVED AS TO AVAILABILITY OF FUNDS:

_____
Director of Finance

APPROVED AS TO INSURANCE:

_____
Department of Risk Management

APPROVED AS TO FORM AND LEGALITY:

_____
Williamson County Attorney

FILED IN THE OFFICE OF THE
WILLIAMSON COUNTY MAYOR:

_____

Date: _____

Williamson County\Agreements\Office of Public Safety\City of Spring Hill\2022\2022.05.05 Spring Hill-Server Support K22-195.docx

CITY OF SPRING HILL, TENNESSEE:

By: _____

Title: Mayor

Sworn to and subscribed to before me, a Notary Public, this 6th **day of** June, **20**22, **by** April Goad, **the** City Recorder **of City and duly authorized to execute this instrument on City's behalf.**

April C. Goad
Notary Public
My Commission Expires: 7-23-2022

APRIL C. GOAD NOTARY PUBLIC AT LARGE MAURY COUNTY, TENN.

COPY

RESOLUTION 25-167

A RESOLUTION TO AUTHORIZE THE PURCHASE OF VEHICLES AND EQUIPMENT FOR THE PUBLIC WORKS DEPARTMENT THROUGH SOURCEWELL AND STATE CONTRACT

WHEREAS, the City of Spring Hill Public Works Department desires to purchase several vehicles and equipment through Sourcewell and State contract; and

WHEREAS, the vehicles and equipment will be for various divisions throughout Public Works as attached hereto in exhibit A; and

WHEREAS, due to the uncertainty of availability and price increases, contingencies have been added to the vehicles and equipment; and

WHEREAS, funds were budgeted in the various departments for FY26 as reflected in exhibit A.

NOW, THEREFORE BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen, authorizes the purchase of the vehicles and equipment attached hereto in Exhibit A through Sourcewell and State contract.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-167***

SUBMITTED BY: **Tyler Scroggins, Public Works Director**

DATE: **July 7, 2025**

RE: **To authorize the purchase of vehicles and equipment for various Public Works Departments**

PURPOSE:

The purpose of this resolution is to approve the purchase of vehicles and equipment for various Public Works Departments through Sourcewell and State contract.

BACKGROUND:

The vehicles and equipment were budgeted in the FY26 budget for Public Works Administration, Traffic Division, Streets Division and Facilities Division. A contingency amount has been added to each quote due to the uncertainty of vehicle/equipment availability and price increases.

Additional safety measures (safety lights, City logo, etc.) will be added to the vehicles and equipment as needed.

FINANCIAL IMPACT:

The funding for the vehicle will be from the various departments as attached hereto in Exhibit A.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-167 to approve the purchase of vehicles and equipment for the Public Works Department through Sourcewell and State contract.

EXHIBIT - A - RESOLUTION 25-167

DIVISION	EQUIPMENT	VENDOR	Sourcewell/State	GL	QUOTE	Approved Amt w/ contingency
PW Admin	2026 Chevrolet 1500 4wd SRT	Alan Jay	Government Pricing	110-43100-59411	$60,374.00	**$68,000.00**
Facilities	2026 Chevrolet 1500 4wd	Alan Jay	Government Pricing	110-41800-59411	$43,344.00	**$46,000.00**
Facilities	2025 Chevrolet Cargo Van	Alan Jay	Government Pricing	110-41800-59411	$44,436.00	**$48,000.00**
Facilities	2025 Chevrolet 2500 w/ Utility Svs Bed	Wilson Co Motors	Sourcewell	110-41800-59411	$65,058.64	**$70,000.00**
Traffic	2025 Chevrolet 2500 w/ Utility Svs Bed	Wilson Co Motors	Sourcewell	110-43120-59411	$65,058.64	**$70,000.00**
Traffic	Currux Vision Camera System	Temple	Sourcewell	110-43120-59421	$52,209.00	**$55,000.00**
Streets	2025 Chevrolet 2500 w/ Utility Svs Bed	Wilson Co Motors	Sourcewell	110-43110-59411	$65,058.64	**$70,000.00**
Streets	2026 Ford F550	Alan Jay	Government Pricing	110-43110-59411	$102,690.00	**$105,000.00**
Streets	2026 Ford F550	Alan Jay	Government Pricing	110-43110-59411	$102,690.00	**$105,000.00**
Streets	2025 Chevrolet 2500 w/ Utility Svs Bed	Wilson Co Motors	Sourcewell	110-43110-59411	$65,058.64	**$70,000.00**
Streets	2026 Mack Granite Tandem Axle Dump Truck	McMahon Truck Center	Sourcewell	110-43110-59411	$213,301.00	**$220,000.00**
Streets	2026 Mack Granite Tandem Axle Dump Truck	McMahon Truck Center	Sourcewell	110-43110-59411	$213,301.00	**$220,000.00**
Streets	CAT 914 14A Wheel Loader	Thompson Cat	Sourcewell	110-43110-59421	$163,713.51	**$170,000.00**
Streets	Weiler TT300 Tack Trailer - Sealing maching	Thompson Cat	Sourcewell	110-43110-59421	$28,682.74	**$30,000.00**
Streets	308 Mini Excvator	Thompson Cat	Sourcewell	110-43110-59421	$151,580.52	**$154,000.00**

PW Admin 110-43100-59411

ALAN JAY FLEET SALES

Contract Number:	84697 - SWC209 EVENT # 13390-13419
Quote ID:	64204
Agency:	SPRING HILL, CITY OF (TN)
Date:	6/28/2025

Thank you from the Alan Jay Fleet Team for the opportunity to provide this quotation for (1) CHEVY SILVERADO 1500 CREW CAB PICKUP 4WD 5.3L v8 LT 5.5' BED, please review carefully and contact us with any errors or changes.

MSRP:	$65,120.00
Base Price:	$53,079.00
Factory Options:	$7,295.00
Aftermarket Options:	$0.00
Purchase Total:	$60,374.00

Per attached vehicle specifications.

This quotation is valid as long as the manufacturer is accepting orders for the model year specified. Purchase orders received after factory order cutoff may not be honorable. The vehicle(s) offered on this quotation will be ordered in the color(s) listed. Please contact your Alan Jay sales representative with any questions you have on this quote.

Quoted By: MATT FORTE / 904-505-9682 / Matt.Forte@AlanJay.com

Facilities 110-71800-59411

ALAN JAY FLEET SALES

Contract Number:	84697 - SWC209 EVENT # 13390-13419
Quote ID:	64257
Agency:	SPRING HILL, CITY OF (TN)
Date:	7/1/2025

Thank you from the Alan Jay Fleet Team for the opportunity to provide this quotation for (1) 2026 CHEVY SILVERADO 1500 REGULAR CAB PICKUP 4WD 2.7L Turbo WT 6.5' BED, please review carefully and contact us with any errors or changes.

MSRP:	$43,715.00
Base Price:	$42,305.00
Factory Options:	$0.00
Aftermarket Options:	$1,039.00
Purchase Total:	$43,344.00

Per attached vehicle specifications.

This quotation is valid as long as the manufacturer is accepting orders for the model year specified. Purchase orders received after factory order cutoff may not be honorable. The vehicle(s) offered on this quotation will be ordered in the color(s) listed. Please contact your Alan Jay sales representative with any questions you have on this quote.

Quoted By: MATT FORTE / 904-505-9682 / Matt.Forte@AlanJay.com

Wilson County Motors SWC# 209 Vendor #0000000869

Shelby Walsh | 615-444-9642 | shelby@wilsoncountyauto.com

Vehicle: [Fleet] 2025 Chevrolet Silverado 2500HD (CK20943) 4WD Crew Cab 172" Work Truck (Complete)

Price Summary

PRICE SUMMARY

	VQ2	MSRP
Base Price	$47,448.80	$51,800.00
Total Options	$15,414.84	$19,003.00
Vehicle Subtotal	$62,863.64	$70,803.00
Destination Charge	$2,195.00	$2,195.00
Grand Total	**$65,058.64**	**$72,998.00**

(1) Facilities - 110-41800-59411
(1) Traffic - 110-43120-59411
(2) Streets - 110-43110-59411

This document contains information considered Confidential between GM and its Clients uniquely. The information provided is not intended for public disclosure. Prices, specifications, and availability are subject to change without notice, and do not include certain fees, taxes and charges that may be required by law or vary by manufacturer or region. Performance figures are guidelines only, and actual performance may vary. Photos may not represent actual vehicles or exact configurations. Content based on report preparer's input is subject to the accuracy of the input provided.
Data Version: 25813. Data Updated: Jun 25, 2025 6:46:00 PM PDT.

Facilities 110-41800-S9411

ALAN JAY FLEET SALES

Contract Number:	84697 - SWC209 EVENT # 13390-13419
Quote ID:	64203
Agency:	SPRING HILL, CITY OF (TN)
Date:	6/28/2025

Thank you from the Alan Jay Fleet Team for the opportunity to provide this quotation for (1) 2025 CHEVY EXPRESS CARGO 2500 RWD 4.3L v6 135" WB (NO REAR GLASS), please review carefully and contact us with any errors or changes.

MSRP:	$43,695.00
Base Price:	$38,966.00
Factory Options:	$765.00
Aftermarket Options:	$4,705.00
Purchase Total:	$44,436.00

Per attached vehicle specifications.

This quotation is valid as long as the manufacturer is accepting orders for the model year specified. Purchase orders received after factory order cutoff may not be honorable. The vehicle(s) offered on this quotation will be ordered in the color(s) listed. Please contact your Alan Jay sales representative with any questions you have on this quote.

Quoted By: MATT FORTE / 904-505-9682 / Matt.Forte@AlanJay.com

Traffic 110-43120-59421

Temple, Inc.
P.O. Box 2066
Decatur, Alabama
35602-2066
Phone 1-800-633-

Temple

Serving the South Since 1954!

DATE **March 4, 2025**
NET 30
DELIVERY **4 to 6 Weeks, A.R.O.**
SALESMAN **Tim Britt**

City of Spring Hill, TN
Attn: Jeff Plumb

Please Send Orders To: Orders@Temple-inc.com

CONDITIONS: The prices and terms on this quotation are not subject to verbal changes or other agreements unless approved in writing by **Temple, Inc.** All quotations and agreements are contingent upon strikes, accidents, fires, availability of materials and all other causes beyond our control. Prices are based on costs and conditions existing on date of quotation and are subject to change by **Temple, Inc.** before final acceptance. Freight will be prepaid and allowed unless otherwise noted on this quotation.

Quantity	Description	Price	Amount
3	**Currux Vision Single Camera System (4 Separate Video Streams)** SmartCity ITS Standard - Counts/Classification/Speed/Full-actuation SDLC Module NTCIP Module Axis M3508-PIVE Fixed Dome Camera w/ T94T02D Pendant Kit Cudy 60 Watt POE injector 128-24-AL camera bracket astro-brac pole bracket AS-3009-62-PNC 36-OS-AL ; 36" Offset Aluminum Camera Mount, 36" offset, 88" OAL with a 14" drop Outdoor Rated Cat 5 cable Switch POE	$ 17,403.00	$ 52,209.00
		Total	**$ 52,209.00**

NOTE:
Tax will be added if applicable.
Freight not included unless noted on quote.
A 4% fee will be added to all credit card orders.

Quote Valid For 30 Days.

SALESPERSON

1/0-43110-59411 - Streets

ALAN JAY FLEET SALES

Contract Number:	5179 - 2025 CITY OF TALLAHASSEE
Quote ID:	64277
Agency:	SPRING HILL, CITY OF (TN)
Date:	7/1/2025

Thank you from the Alan Jay Fleet Team for the opportunity to provide this quotation for (1) 2026 FORD F-550 REGULAR CAB CHASSIS 4WD DRW 169" WB XL 84" CA, please review carefully and contact us with any errors or changes.

MSRP:	$61,990.00
Base Price:	$56,005.00
Factory Options:	$15,095.00
Aftermarket Options:	$31,590.00
Purchase Total:	$102,690.00 X 2

Per attached vehicle specifications.

This quotation is valid as long as the manufacturer is accepting orders for the model year specified. Purchase orders received after factory order cutoff may not be honorable. The vehicle(s) offered on this quotation will be ordered in the color(s) listed. Please contact your Alan Jay sales representative with any questions you have on this quote.

Quoted By: MATT FORTE / 904-505-9682 / Matt.Forte@AlanJay.com

Streets Division
110-43110-59411

MACK

Sourcewell
Awarded Contract
Contract #032824-MAK

06/30/2025

CUSTOMER QUOTATION

City of Spring Hill – Member ID 37473

199 Town Center Pkwy

Spring Hill, TN 37174

McMahon Truck Centers Nashville provides the following vehicle(s) for your consideration.

(2) New 2026 Mack Granite Tandem Axle Dump Truck Chassis with Rogers Millennium 16ft Beds. See attached specs for chassis.

	One Unit (1)	
Chassis List Price	$	266,178
Member Discount Factor		62.75%
Total Discount from List	$	(99,151)
Sourcewell Customer Chassis Price	$	167,027
Sourced Goods		
Prep	$	4,274
Body	$	42,000
Added Protection Plans	$	
Total	**$**	**213,301**
Qty: 2	$	426,602

These vehicles are available under the Sourcewell Contract Number 032824-MAK. Please reference this Contract Number on all Purchase Orders. City of Spring Hill Sourcewell Member ID 37473.

Thank you in advance for your consideration. Should you have any questions, please do not hesitate to call.

Sincerely,

Nick Triola

McMahon Truck Centers Nashville

110-43110-5972-Streets

Thompson CAT | Thompson CAT The Rental Store

June 3rd, 2025

CITY OF SPRING HILL
PO BOX 789

SPRING HILL, TENNESSEE 37174-0789

We are pleased to present the following quotation for one new 914, equipped as follows:

914 14A WHEEL LOADER
LANE 3 ORDER
ENGINE
FAN, DEMAND
POWERTRAIN, HI RIMPULL, 24MPH
COUPLER, IT, STD LIFT
HYDRAULICS, 3V, STD LIFT
LIGHTS,ROADING,RH DIP,HAL-LED
STEERING, STANDARD
CAB, DELUXE, SINGLE BRAKE
SEAT, DELUXE
CAMERA, REAR VIEW
SEAT BELT, RETRACTABLE 2"
HEATER AND AIR CONDITIONER
SECURITY SYSTEM, NONE
TIRES, 17.5-25, GY, L2 SGL12PR
KICKOUT, RTD, ROTARY SENSOR
CTWT STANDARD, 1973 LBS
FENDERS, STANDARD
HYDRAULIC OIL, STANDARD
RIDE CONTROL
INSTRUCTIONS, ANSI
SERIALIZED TECHNICAL MEDIA KIT
STANDARD WEATHER PACKAGE
ALARM, BACK-UP
WORKTOOL, WIRING
PRODUCT LINK, CELLULAR, PL243
STANDARD RADIO (12V)
BLIND, REAR,PERFORATED
GUARD, POWERTRAIN
JUMPER HOSE, 3V, TWIST, IT-ISO
BUCKET-MP HD 1.75YD3 IT BOCE

WARRANTY	
Months:	60
Hours:	3000
Description:	POWERTRAIN + HYDRAULICS + TECH INCLUDES (1) 500 HR CVA FILTERS KIT & INCLUDES LABOR
Additional:	Thompson Machinery provides complimentary travel time and mileage for warrantable repairs in the field for the first 6 Months of use.

State Contract Purchase Price : $163,713.51

(Contract Number: 00000000000000000000072878)

Thank you for the opportunity to submit this quotation, which will remain valid for 30 days. Should you have any questions, please feel free to contact me. We look forward to earning your business!

Sincerely,

Roth Nunley

615-295-9532

110-43110-59421 Streets

June 3, 2025

CITY OF SPRING HILL
PO BOX 789

SPRING HILL, TENNESSEE 37174-0789

Dear Valued Customer,

We are pleased to present the following quotation for one new WEILER TT300, equipped as follows:

WEILER TT300 TACK TRAILER
6000 LB AXLE
9.5HP KOHLER W/ELECTRIC START
HYDRAULIC PUMP DRIVE W/REVERSIBLE HEAVY DUTY GEAR PUMP
8" DIAMETERS-SHAPE HEATING FLUE
FORCED AIR DIESEL TANK HEAT GROUP
10" SAFETY FILL LID
SPRAY WAND W/COLDHANDLESAND REMOVEABLE TIP
BALL HITCH 2 5/16"
10' FOLDING SPRAY BAR
REMOTE FOR SPRAY BAR
ELECTRIC OVERNIGHT TANK HEAT GROUP

WARRANTY	
Months:	12
Hours:	
Description:	STANDARD WARRANTY
Additional:	Thompson Machinery provides complimentary travel time and mileage for warrantable repairs in the field for the first 6 Months of use.

- PRICED OFF SOURCEWELL CONTRACT

Purchase Price *(plus applicable taxes):* $28,682.74

Thank you for the opportunity to submit this quotation, which will remain valid for 30 days. Should you have any questions, please feel free to contact me. We look forward to earning your business!

Sincerely,

Michael Montgomery

Sales Representative
Thompson Machinery

**While we strive to maintain stable pricing, fluctuations in tariffs or trade regulations may require adjustments to the final quote.*

110-43110-S9921 - Streets

Thompson CAT | Thompson CAT The Rental Store

June 3, 2025

CITY OF SPRING HILL
PO BOX 789

SPRING HILL, TENNESSEE 37174-0789

We are pleased to present the following quotation for one new 308, equipped as follows:

308 07A CR MHE DCA8D
DRAIN, ECOLOGY
HEATER, WATER JACKET
SEAT, AIR SUSP, FABRIC, HEATED
BELT, SEAT, 3" RETRACTABLE
ALARM, TRAVEL
MONITOR NEXT GEN, ADVANCED, CR
LIGHTS, LED
INTEGRATED RADIO
CAMERA, REAR VIEW
ELECTRICAL ARR, C3.3 HRC
LUBRICANT GP
FILM GP-QR
BOOM, SWING
LINKAGE, BUCKET W/ LIFTING EYE
STICK, LONG
STD BLADE, STD U/C, TG W/PAD
PRODUCT LINK, CELLULAR PLE643
SOFTWARE, CODED START
SOFTWARE, 2 WAY CONTROL
SOFTWARE, STICK STEER CONTROL
SOFTWARE, PROPORTIONAL CONTROL
COUNTERWEIGHT, EXTRA, 550LBS
CAT KEY, WITH PASSCODE OPTION
CONTROL, QC, 3 LINE
ENGINE, EPA TIER 4 FINAL
LINES, QC, LNG STK, 3 LINE
LINES, STICK
LINES, BOOM
COUPLER, PG, HYDR.D.LOCK, 7-9T
THUMB, HYDRAULIC, 7-9T, PG
BUCKET-HD, 24", 8.1 FT3, 7T
BUCKET-HD, 36", 13.8 FT3, 7T
PINS, BUCKET, 50MM

WARRANTY	
Months:	60
Hours:	3000
Description:	POWERTRAIN + HYDRAULICS + TECH
Additional:	Thompson Machinery provides complimentary travel time and mileage for warrantable repairs in the field for the first 6 Months of use.

State Contract Purchase Price : $151,580.52

(Contract Number: 00000000000000000000072878)

Thank you for the opportunity to submit this quotation, which will remain valid for 30 days. Should you have any questions, please feel free to contact me. We look forward to earning your business!

Sincerely, Roth Nunley 615-295-9532

RESOLUTION 25-168

A RESOLUTION TO AUTHORIZE STREET STRIPING UNDER THE ANNUAL CONTRACTS FOR FY 2026

WHEREAS, the City of Spring Hill Board of Mayor and Alderman previously approved the selection of Kerr Brothers for the annual street striping contract; and

WHEREAS, City staff recommends the following streets be striped under FY 2026 budget year, paid from the budgeted funds in General Fund ($65,750.00); and

Buckner Road (from Main Street to Buckner Lane)	$ 65,750.00

WHEREAS, the striping expenses will be paid from General Fund 110-43110-52681; and

WHEREAS, City staff has presented and received a favorable recommendation from the City's Transportation Advisory Committee on May 19, 2025.

NOW, THEREFORE BE IT RESOLVED, that the City of Spring Hill Board of Mayor and Aldermen, authorizes streets striping, as detailed, under the annual striping contract with Kerr Brothers for FY 2026 and approves Resolution 25-168.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-168***

SUBMITTED BY: **Tyler Scroggins, Public Works Director**

DATE: **July 7, 2025**

RE: **To authorize the striping of Buckner Road (from Main Street to Buckner Lane)**

PURPOSE:

The purpose of this resolution is to approve the striping of Buckner Road.

BACKGROUND:

Staff presented quotes from Kerr Brothers for the striping of Buckner Road to the Transportation Advisory Committee on May 19, 2025, and received a favorable recommendation. The total costs for the striping will be $65,750.00 and are budgeted for in the Streets budget (110-43110-52681).

STAFF RECOMMENDATION:

Staff recommends the striping of Buckner Road for a total cost of $65,750.00.

KERR BROS. & ASSOCIATES, INC.

935 3RD Ave. S
Nashville, TN 37210
Phone: 615-255-8614
Fax: 615-242-5404

PROPOSAL

REVISION #1

Proposal created for:		Job Name:	
CITY OF SPRING HILL		BUCKNER ROAD	
Address		Job address:	
ATTN: TYLER SCROGGINS		MAIN STREET – BUCKNER LANE	
City, State Zip		City, State Zip:	
Phone	Fax	Date Submitted	
931-486-2252		5/12/25	

The following price is to layout & stripe with temp paint & thermo plastic as per plans.

BUCKNER ROAD

Thermoplastic	$ 52,820.00
Temp Paint	$ 12,750.00
	$ 65,570.00

We hereby propose to furnish material and labor in accordance to the above specifications, for the sum of: $

Payment to be made as follows:

Net Upon Completion 10 Days

Acceptance of Proposal – The above specifications, prices and conditions are acceptable. I hereby authorize all work as specified. Payment to be remitted as outlined above.

Proposal valid for 30 days.

ACCEPTANCE SIGNATURE _____

Authorized Signature	Date
ROBBY MALLORY	5/12/25

RESOLUTION 25-93

A RESOLUTION DISSOLVING THE TRAFFIC CALMING PROGRAM

WHEREAS, the City of Spring Hill, Tennessee, has implemented a Traffic Calming Program as part of its ongoing efforts to improve traffic safety and community well-being; and

WHEREAS, the Traffic Calming Program was established with the intention of reducing traffic speeds, increasing pedestrian safety, and promoting a safer driving environment for residents; and

WHEREAS, the Board of Mayor and Alderman has reviewed and evaluated the effectiveness of the Traffic Calming Program through public input, data analysis, and consultation with city staff, engineering professionals, and other stakeholders; and

WHEREAS, after thorough consideration, the Board of Mayor and Alderman has determined that the Traffic Calming Program has not achieved its intended outcomes, has resulted in unforeseen negative consequences, or that other methods of traffic management and safety enhancements may better serve the needs of the community; and

WHEREAS, the Board of Mayor and Alderman recognizes the importance of continuing to ensure safe and efficient roadways while maintaining the quality of life for residents; and

NOW, THEREFORE, BE IT RESOLVED by the Board of Mayor and Alderman of Spring Hill, Tennessee, that:

1. The Traffic Calming Program, including all related policies, measures, and projects, is hereby dissolved and terminated.

2. All future traffic safety and roadway improvement initiatives will be evaluated on a case-by-case basis to determine the most effective and appropriate methods, considering community needs, public input, and safety data.

3. Any funds previously allocated to the Traffic Calming Program that have not been expended shall be reallocated to other infrastructure or public safety initiatives as deemed appropriate by the Board of Mayor and Alderman.

4. The Board of Mayor and Alderman directs the City Administrator and relevant departments to discontinue any ongoing traffic calming projects and to notify residents, businesses, and stakeholders affected by the program's dissolution.

5. This resolution shall take effect immediately upon its adoption.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on this 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

RESOLUTION 25-94

A RESOLUTION GRANTING TRAFFIC CALMING FUNDING TO THE SPRING HILL POLICE DEPARTMENT FOR THE PURPOSE OF ADDING TWO TO THREE OFFICERS DEDICATED TO TRAFFIC CALMING AND ENSURING THE SAFETY OF RESIDENTS IN PROBLEMATIC AREAS

WHEREAS, the City of Spring Hill is committed to ensuring the safety and well-being of its residents by addressing traffic-related issues in neighborhoods and high-traffic areas; and

WHEREAS, concerns regarding speeding, reckless driving, and other traffic violations in certain areas of Spring Hill have been raised by the community, and such issues pose a danger to residents, especially pedestrians and children; and

WHEREAS, the Spring Hill Police Department has the capacity to address these concerns and improve the safety of its streets through targeted enforcement and visibility; and

WHEREAS, additional funding is necessary to provide for two to three officers specifically dedicated to traffic calming efforts in high-priority areas as identified by the Spring Hill Police Department in collaboration with city officials and residents; and

WHEREAS, the City of Spring Hill recognizes the importance of community input in addressing traffic concerns and aims to establish a more effective system for residents to request additional patrols in problematic areas.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF SPRING HILL, TENNESSEE:

1. Traffic Calming Funding: The City of Spring Hill hereby allocates the traffic calming program funding to the Spring Hill Police Department for the express purpose of supporting the addition of two to three officers dedicated to traffic calming efforts in problematic areas of the city. These officers will focus on enforcing speed limits, monitoring high-traffic areas, and addressing dangerous driving behaviors to enhance the safety of the community.

2. Objective: The funding and addition of these officers are intended to ensure the safety of residents, reduce traffic-related incidents, and improve quality of life in neighborhoods that have experienced frequent traffic violations and concerns.

3. Resident Input & Requests for Extra Patrols: The Spring Hill Police Department is encouraged to create and implement a request form that allows residents to report specific traffic-related concerns and request additional patrols in identified areas. This will provide an accessible means for residents to engage directly with law enforcement and actively participate in making their community safer.

4. Reporting & Evaluation: The Spring Hill Police Department is requested to provide regular updates to the Board of Mayor and Aldermen on the progress and effectiveness of the traffic calming efforts, and the impact on traffic safety in identified areas.

5. Effective Date: This resolution shall take effect immediately upon its adoption.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on this 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

RESOLUTION 25-161

A RESOLUTION TO AUTHORIZE APPROVAL OF FIRE DEPARTMENT UNIFORM CONTRACT

WHEREAS, the City of Spring Hill operates a career fire department that responds to all hazards within the City; and

WHEREAS, the department has the need to purchase department specified uniforms from a single vendor in order to maintain consistency in brands, purchase processes, purchasing orders and accounts receivable; and

WHEREAS, the department conducted a competitive bid process in order to obtain pricing and business capabilities from interested vendors; and

WHEREAS, the department thoroughly reviewed submitted bid packages and makes the recommendation to approve Galls as the selected uniform vendor for a one-year agreement ending June 30, 2026.

NOW, THEREFORE BE IT RESOLVED, by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee to authorize the Fire Department to enter into an agreement with Galls, for a period of one-year for the purchase of uniforms and equipment specified in the bid request, and authorizes the Fire Chief to sign final pricing documents for the term of the agreement.

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, this 7th Day of July, 2025.

ATTEST:

_____
Matt Fitterer, Mayor

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-161***

SUBMITTED BY: **Graig Temple, Fire Chief**

DATE: **July 7, 2025**

RE: **Uniform Agreement**

PURPOSE:

The purpose of this resolution is to allow the Fire Department to enter into an agreement with Galls, as the winning bidder through a competitive bid process as the Fire Department's uniform vendor.

BACKGROUND:

The Fire Department has a thorough list of approved uniform items. In order to maintain consistency in brands, colors, online purchasing platform, business practices to include purchase orders and accounts receivable, the Department uses one single uniform vendor for duty uniforms. The Fire Department ran a competitive bid process and following a review of the submissions has chosen Galls as the most cost-effective and complete bid.

FINANCIAL IMPACT:

The Fire Department budgets annually for both new and replacement uniforms.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-161 to allow the Fire Department to enter into a pricing agreement with Galls, Inc, for the purchase of uniforms for a period of one-year ending June 30, 2026 and authorizes the Fire Chief to sign any remaining documents establishing set pricing.

RESOLUTION 25-72

A RESOLUTION TO AUTHORIZE ADVERTISEMENT OF FIRE DEPARTMENT UNIFORM REQUEST FOR PROPOSALS

WHEREAS, the City of Spring Hill operates a career fire department that responds to all hazards within the City; and

WHEREAS, the department has the need to purchase department specified uniforms from a single vendor in order to maintain consistency in brands, purchase processes, purchasing orders and accounts receivable; and

WHEREAS, the department wishes to advertise a Request for Proposal (RFP) for the individual uniform items; and

WHEREAS, upon the receipt of the RFPs, the Department will be able to select the winning vendor(s) to supply uniforms for the next fiscal year, and beyond, if possible.

NOW, THEREFORE BE IT RESOLVED, by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee to authorize the Fire Department to advertise an RFP for specific uniforms, and to collect and score the responses for consideration of entering into a contract with the winning vendor(s).

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, this 17th Day of March, 2025.

ATTEST:

April Goad, City Recorder

Jim Hagaman, Mayor

LEGAL FORM APPROVED:

Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-72***

SUBMITTED BY: **Graig Temple, Fire Chief**

DATE: **March 17, 2025**

RE: **Uniform Contract RFP**

PURPOSE:

The purpose of this resolution is to allow the Fire Department to advertise an RFP and to obtain bids on various uniforms.

BACKGROUND:

The Fire Department has a thorough list of approved uniform items. In order to maintain consistency in brands, colors, online purchasing platform, business practices to include purchase orders and accounts receivable, the Department attempts to use one single uniform vendor.

FINANCIAL IMPACT:

The Fire Department budgets annually for both new and replacement uniforms.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-72 to allow the Fire Department to advertise an RFP for the purpose of selecting a uniform vendor.

CITY OF SPRING HILL, TENNESSEE
CONTRACT DOCUMENTS
&
SPECIFICATIONS
FOR

Fire Department Uniforms

March 17, 2025

INVITATION TO BID
Fire Department Uniforms
City of Spring Hill, Tennessee

Sealed Bids will be received by the City of Spring Hill, Tennessee, "Fire Department Uniforms", 199 Town Center Parkway ***(for hand delivery or courier service)***, P.O. Box 789 ***(for regular mail service)*** Spring Hill, Tennessee 37174, on or before April 24th, 2025, at 2 pm. The envelope containing the bid must be sealed and marked "**Fire Department Uniforms** ".

Bids must be made on the Bid Form and in accordance with Instructions to Bidders furnished by the City of Spring Hill.

The defined terms appearing in the General Specifications apply to all Contract Documents.

The City reserves the right to reject any or all Bids regarding this contract, to waive irregularities and/or informalities in any Bids, and to make an award in any manner, consistent with law, deemed in the best interest of the City.

INSTRUCTIONS TO BIDDERS
Fire Department Uniforms

1. **RECEIPT AND OPENING OF BIDS**

The City of Spring Hill invites and will receive Bids on the forms attached hereto, all information on which must be appropriately completed. Bids will be received at City Hall until April 24th, 2025 at 2 pm, and publicly opened and read aloud on the aforesaid date. The envelopes containing the Bids must be sealed and addressed to April Goad, City Recorder, 199 Town Center Parkway ***(for hand delivery or courier service)***, P.O. Box 789 ***(for regular mail service)***, Spring Hill, TN 37174, and marked "Fire Department Uniforms".

2. **PREPARATION OF THE BID**

All Bids shall be made on the Bid Form attached hereto and shall give the number of bids and must be signed by the Bidders.

If a unit price or a lump sum already entered by the Bidder on the Bid Form is to be altered, it shall be crossed out with ink and the new unit price or lump sum bid entered above or below it, and initialed by the Bidder in ink.

Each Bid must be submitted in a sealed envelope bearing on the outside the name of the Bidder, its address, and marked "Fire Department Uniforms". If forwarded by mail, the sealed envelope containing the Bid must be enclosed in another envelope addressed as specified in the Invitation to Bid. The City may consider as irregular any Bid not prepared and submitted by the provisions hereof and may waive any informalities or reject any Bids.

Any Bid may be withdrawn before the above-scheduled time for the opening of Bids or authorized postponement thereof.

Any Bid received after the time and date specified above shall not be considered.

3. **AWARD OF THE BID**

The Bid shall be deemed as having been awarded when formal notice of award shall have been mailed by the City to the Bidder.

The Bidder to whom the Bid shall have been awarded will be required to execute **3 copies** of the Contract on the form attached. In case of the Bidder's refusal or failure to do so within ten (10) days after its receipt of formal notice of award, Bidder will be considered to have abandoned all rights and interests in the award and the award may then be made to the next best-qualified Bidder or the work readvertised for Bids as the City may elect.

4. **CONDITIONS**

Each Bidder shall fully acquaint itself with conditions relating to the scope and restrictions attending the execution of the Bid. Bidders shall thoroughly examine and be familiar with the Specifications.

The failure or omission of any Bidder to receive or examine any form, instrument, addendum, or other document shall in no way relieve it of any obligations with respect to his Bid or to the Contract. The City shall make all such documents available to the Bidder.

5. **ADDENDA AND EXPLANATIONS**

Explanations desired by a prospective Bidder shall be requested of the City in writing, and if explanations are necessary, a reply shall be made in the form of an Addendum, a copy of which will be posted on the City's website. Every request for such an explanation shall be in writing (email) addressed to April Goad, Recorder at agoad@springhilltn.org. Any verbal statements regarding same by any person prior to the award shall be unauthoritative and not binding.

Addenda issued to Bidders prior to date of receipt of Bids shall become a part of the Bid Documents.

No inquiry received within seven (7) days of the date fixed for the submission and opening of Bids will be given consideration.

All such interpretations and any supplemental instructions will be in the form of written Addenda, which, if issued, shall be emailed to all prospective Bidders, not later than five (5) days prior to the date fixed for the opening of Bids.

6. **NAME, ADDRESS, AND LEGAL STATUS OF THE BIDDER**

The Bid must be properly signed in ink and the address of the Bidder given. The legal status of the Bidder whether corporation, partnership, or individual, shall also be stated in the Bid.

A corporation shall execute the Bid by its duly authorized officers in accordance with its corporate by-laws and shall also list the state in which it is incorporated. A partnership Bidder shall give full names of all partners. Partnership and individual Bidders will be required to state in the Bid the names of all persons interested therein.

The place of residence of each Bidder, or the office address in the case of a firm or company, with county and state and telephone number, must be given after his signature.

If the Bidder is a joint venture consisting of a combination of any or all the above entities, each joint venturer shall execute the Bid.

Anyone signing a Bid as an agent of another, or others must submit with his Bid, legal evidence of his authority to do so.

7. **COMPETENCY OF BIDDER**

The opening and reading of the Bid shall not be construed as an acceptance of the Bidder as a qualified, responsible Bidder. The City reserves the right to determine the competence and responsibility of a Bidder from its knowledge of the Bidder's qualifications or from other sources.

The City shall require submission with the Bid of the following supporting data regarding the qualifications of the Bidder to determine whether it is a qualified, responsible Bidder. The Bidder will be required to furnish the following information:
(a) Evidence that the Bidder is in good standing under the laws of the State of Tennessee, and, in the case of corporations organized under the laws of any other State, evidence that the Bidder is licensed

to do business (copy of city and county business license) and in good standing under the laws of the State of Tennessee.

If the City requires additional certified supporting data regarding the qualifications of the Bidder in order to determine whether he is a qualified responsible bidder, the Bidder may be required to furnish any or all of the following information sworn to under oath:

(a) Evidence that the Bidder can commence performance as required in the Bid Documents.

(b) Such additional information that will satisfy the City that the Bidder is adequately prepared to fulfill the Contract.

The Bidder may satisfy any or all the experience and qualification requirements by submitting the experience and qualifications of its parent organization and subsidiaries or affiliates of the parent.

8. **DISQUALIFICATION OF BIDDERS**

Although not intended to be an exhaustive list of causes for disqualification, any one or more of the following causes, among others, may be considered sufficient for the disqualification of a Bidder and the rejection if it's Bid:

(a) Evidence of collusion among Bidders. (b) Lack of competency as revealed by either financial statements, experience or equipment statements as submitted or other factors. (c) Default on a previous municipal bid for failure to perform.

The City reserves the right to accept any Bid or to reject any or all Bids, and to waive defects or irregularities in any Bid. Any alteration, erasure or interlineations of the Contract Documents and of the Bid shall render the accompanying Bid irregular and subject to (but not requiring) rejection by the City.

10. **TITLE VI POLICY AND DISCLOSURES**

The City of Spring Hill will not discriminate in the purchase of all goods and services based on race, color, religion, sex, national origin, age, disability or any other lawfully protected classification.

Verbal quotations or quotations received after the closing date will not be accepted. The City of Spring Hill reserves the right to reject all bids, to waive technicalities or informalities and to accept any bid deemed in the best interest of the City of Spring Hill.

All documents submitted to the City of Spring Hill that are associated with this project are subject to the Tennessee Public Records Act. Access to the record is governed by the Tennessee Public Records Act and the policies of the City of Spring Hill and the Office of Open Records Counsel.
The City of Spring Hill will not discriminate in the purchase of all goods and services based on race, color, religion, sex, national origin, age, disability, or any other lawfully protected classification.
The City of Spring Hill reserves the right to reject any and all bids, to waive technicalities or informalities and to accept any bid deemed in the best interest of the City of Spring Hill.
In accordance with Tennessee Code Annotated, Title 12, Chapter 4, Part 1, the selected Consultant cannot be currently engaging in, and will not for the duration of the contract, engage in a boycott of Israel.

Fire Department Uniforms
SPECIFICATIONS AND ADDITIONAL QUESTIONS

1.00 GENERAL

The minimum requirements and the specification for the purchase, as well as certain requests for information to be provided by Vendor as part of its bid, are set forth below. Vendor must operate an online store that allows for automated order placement which are pre-authorized by a department representative prior to ordering.

2.00 MINIMUM REQUIREMENTS FOR FIRE DEPARTMENT UNIFORMS
(Please add cost on the lines below)

Shirts

- Flying Cross Brand Polyester Cotton Long & Short Sleeve button-up Shirts (Light Blue & White) $46.00/$42.00
- Flying Cross Women's Polyester Cotton Long & Short Sleeve Shirts (Light Blue & White) $46.00/$42.00
- 5.11 Tactical Taclite Pro Short Sleeve and Long sleeve button-up shirts (White) $46.00/$52.00
- 5.11 Tactical Men's Patrol Duty Uniform (PDU) Short and Long sleeve Class A Twill Shirt (White) $69.00/$73.00
- 5.11 Tactical Women's PDU Short Sleeve and Long Sleeve Class A Twill Shirt (White) $60.00/$73.00
- Cornerstone Select Long Sleeve Snag-proof Tactical Polo $31.00
- Cornerstone Men's Tactical Short Sleeve Polo $29,00
- 5.11 Tactical Professional Short Sleeve Polo $36.75
- 5.11 Tactical Professional Long Sleeve Polo $42.00
- 5.11 Tactical Women's Professional Short Sleeve Polo $36.75
- 5.11 Tactical Women's Professional Long Sleeve Polo NO BID
- 5.11 Tactical Men's Utility PT Shirt $27.00

Outerwear

- 5.11 Water-repellent Job Shirt $71.00
- 5.11 Tactical Water Repellent Job Shirt _____
- Game Workwear The Bravest Jacket $72.00
- 5.11 Tactical Valiant Softshell Jacket $119.00
- First Tactical Men's Tactix Hi Vis Parka $355.00

- Men's Softshell Jacket $35.00 GALLS MENS SOFT SHELL JACKET, JA2650 DKNV
- 5.11 Men's Responder Hi-Vis Parka 2.0 $169.00
- 5.11 Tactical Fleece Jacket $86.00
- Condor Summit Soft-shell Jacket with Hood $91.00
- Condor Summit Zero Lightweight Soft-Shell Jacket $87.00
- Cahartt Rain Defender Loose Fit Heavyweight Sweatshirt $53.00
- Tri-Mountain Prospect Hooded Sweatshirt W/Zipper $39.50 Sanmar Corp., HOODED SWEATSHIRT FULL ZIP H/W, F282 TR NAV

Pants (All colors are NAVY BLUE/LAPD BLUE or DARK NAVY)

- Jerzees Super Sweats Sweatpant with Pockets $19.75
- Vertx Phantom LT 2.0 Tactical Pants $65.00
- 5.11 Tactical Fast-Tac Cargo Pant $45.00
- Flying Cross Men's Command 100% Polyester Serge Class A Trousers $53.00
- Flying Cross Women's Command 100% Polyester Serge Class A Trousers $53.00
- Soffe Performance Shorts $18.00
- 5.11 Tactical Pants $48.00
- 5.11 Tactical Company Pant 2.0 $59.00
- 5.11 Tactical Women's Company Pant 2.0 $59.00
- 5.11 Tactical Women's Company Cargo Pant 2.0 $63.00
- Under Armour Men's Tactical Academy 5" Shorts $20.00
- Under Armour Men's Tactical Academy 9" Shorts $20.06
- Tru-Spec 24-7 Men's Ripstop 9" Shorts $38.01
- 5.11 Tactical Taclite PDU Class A Pant $51.00
- 5.11 Tactical Stryke Pants With Flextac $67.00
- 5.11 Tactical Stryke Shorts $63.00
- Propper Summer Weight Tactical Pants $46.00
- Propper Summer Weight Tactical Shorts $43.00
- Under Armour Men's Raid Shorts W/10" Inseam $31.00 5.11 Inc., UTILITY PT SHORT
- Sport-Tek Posicharge Classic Mesh Short W/7" Inseam $10.00
- Flying Cross Command Freedom Flex Trousers $53.00

Headwear (All colors are NAVY BLUE/LAPD BLUE or DARK NAVY)

- 5.11 Tactical Boonie Hat $25.00
- 5.11 Tactical Fleece Watch Cap $14.00
- Port & Company Fleece Lined Knit Cap $8.00
- Port & Company Knit Cap $4.00

- Port Authority R-Tek Stretch Fleece Beanie $4.00
- Flexfit Ballcap (SM, L-XL) $11.00

Duty Gear and Equipment

- 5.11 Tactical Rush LBD Lima Duffle Bag $98.00
- 5.11 Tactical Rush 24 2.0 Backpack $110.00
- 5.11 Tactical Turnout Pocket Organizer II $21.00
- Edge Eyewear Dragon Fire Tactical $8.00
- ESS Crossbow & Crossbow Suppressor Frames with Clear & Smoke Lens $115.00
- Stream Light Wedge Slim Everyday Carry Flashlight $96.00
- Stream Light Protac HL-X Dual-Fuel High-Lumen Tactical Light $94.00
- Ringers Rope Rescue Gloves $22.00
- Benchmade Hook and Rescue Knife $55.00
- Leatherman Tools OHT One Hand Multi-Tool $69.00
- Leatherman Tools Raptor Rescue Shears $87.00
- Dutyman 1.5" Hook and Loop Tip Belt $23.00
- Boston Leather Garrison Belt $28.00
- High Speed Gear Cobra Belt with Integrated D-Ring $98.00
- Blackhawk CQB/Riggers Belt $51.00

Uniform Accessories

- Four Crossed Bugles Collar Insignia-Gold W/Clutch Back (Pair) $6.00
- Five Crossed Bugles Collar Insignia – Gold W/Clutch Back(Pair) $6.00
- Three Crossed Bugles Collar Insignia - Gold W/Clutch Back (Pair) $6.00
- Two Crossed Bugles Collar Insignia – Gold W/Clutch Back(Pair) $6.00
- Two Double Bugle Collar Insignia – Gold W/Clutch Back(Pair) $6.00
- Serving Since Bar $13.00
- Blackington Nametag 2 ½" X ½" One Line $13.00
- Lawpro Breakaway Tie (Dark Navy/LAPD Navy/Navy Blue) $7.00
- Clip on Tie (Regular and Long) (Dark Navy/LAPD Navy/Navy Blue) $7.00

Footwear

- Merrell Agility Peak Tactical Training Shoe $95.00 Merrell- Wolverine Worldwide, NOVA 3 LOW VENT
- Salomon Quest 4D GTX Forces 2 Waterproof Tactical Boot $214.00
- Lowa Innox Pro GTX Mid TF Tactical Boots $179.00
- Under Armour Micro G Valsetz 8" Side-Zip Boots $99.00

- Under Armour Men's Charged Assert 9 Running Shoes $75.00 UNDER ARMOUR,UA CHARGED ASSERT 10
- Reebok Nano Tactical 6" Side Zip Duty Boots $104.00
- Merrell Tactical Chameleon 8 Stretch Tactical Shoe $99.00
- Under Armour MG Strikefast Athletic Shoes $71.00
- Salomon Speed Assault 2 Tactical Shoes $127.00
- Haix Airpower XR1 Pro Boots $399.00
- Galls 6" Waterproof Side Zip Composite Toe Boots $55.00
- Merrell Men's Moab 3 8" Tactical Side-Zip Waterproof Boots $124.00
- Merrell Men's Nova 3 Tactical Shoes $95.00 Merrell- Wolverine Worldwide, NOVA 3 LOW VENT
- Thorogood Softstreets 10" Wellington Boot $119.00
- Thorogood Men's 8 Side Zip Jump Boot $121.00
- Thorogood Gen-Flex2 8" Waterproof Side Zip Boot $125.00
- Danner Acadia 8" Waterproof Duty Boot $343.00
- Rocky Pro Cell Leather Chukka Boot $93.00
- Thorogood 6" Deuce Side Zip Waterproof Boot $105.00
- Redback Bobcat UBBK Elastic Sided Soft Toe Work Boot $177.00

Embroidery/Screen Printing-Heat Press Transfer/Direct to Fabric

- Cost of embroidery per shirt, jacket, sweatshirt, outerwear etc., $22.00
  - (First Initial and Last Name) (Custom Dept. Badge on L Chest w/ Rank)
- Cost of Screen Printing per shirt, jacket, sweatshirt, outerwear etc., $15.00
  - (First Initial and Last Name) (Custom Dept. Badge on L Chest w/ Rank)
- Cost of embroidery per hat and knit cap $9.00-
  - (Dept. Emblem)
- Cost to affix Department Patch to Left Arm and American Flag to Right Arm $2.00

"No hidden fees"

3.00 ADDITIONAL QUESTIONS SPECIFIC TO THIS INVITATION TO BID

Questions or inquiries can be made to the City's Deputy Fire Chief, Kevin Glenn at 615-979-7398 or Kglenn@springhilltn.org

Vendor must submit the following information as part of Vendor's Bid:

If Vendor takes exception to any terms or conditions set forth in this RFP, Vendor will submit a list of the exceptions.

Respectfully submitted,

Bidder: Galls, LLC

Address: 1340 Russell Cave Road
Lexington KY 40505

Phone: 844-464-2557

Email: bidreview@galls.com

By: _____
(Authorized Signature for Bidder)

Name: Mike Fadden

Title: Chief Executive Officer

Date: 6/9/2025

RESOLUTION 25-162

A RESOLUTION OF THE CITY OF SPRING HILL, TENNESSEE, AUTHORIZING THE MAYOR TO SIGN AN EMPLOYMENT AGREEMENT WITH CARTER NAPIER

WHEREAS, the City of Spring Hill, Tennessee previously purchased undeveloped land off Hurt Rd for the development of a city park and/or recreation opportunities,

WHEREAS, the Board of Mayor and Aldermen previously identified Carter Napier as a qualified individual to provide said services; and

WHEREAS, the City Attorney was previously authorized to commence formal contract negotiations on behalf of the City.

NOW, THEREFORE, BE IT RESOLVED by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, that:

Section 1. The Mayor is hereby authorized to sign the employment agreement with Carter Napier attached herein as Exhibit A.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____

April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

EMPLOYMENT AGREEMENT
CITY OF SPRING HILL CITY ADMINISTRATOR

This Agreement, made and entered into _____, 2025, by and between the City of Spring Hill, State of Tennessee, a municipal corporation, hereinafter referred to as "Employer" and J. Carter Napier, hereinafter referred to as "Employee". Employee is expected to report to work on or before August 20, 2025.

WITNESSETH:

WHEREAS, the City of Spring Hill Board of Mayor and Aldermen ("BOMA") desires to employ the services of Employee as City Administrator of the City of Spring Hill; and

WHEREAS, the Employee desires to accept employment as City Administrator of the City of Spring Hill; and

WHEREAS, it is the desire of the BOMA to provide certain benefits, establish certain conditions of employment, and to set working conditions of said Employee; and

WHEREAS, it is the desire of the BOMA to (1) secure and retain the services of Employee and to provide inducement for him to remain in such employment, (2) to make possible full work productivity by assuring Employee's morale and peace of mind with respect to future security, (3) to act as deterrent against malfeasance or dishonesty for personal gain on the part of the Employee, and (4) to provide just means for terminating Employee's services at such time as he may be unable to fully discharge the entail functions of the position due to age or disability or when the BOMA may desire to otherwise terminate his employ.

NOW, THEREFORE, in consideration of the mutual promises set forth in this Agreement, the Parties agree as follows:

1. Duties and Authority.

Employer agrees to employ Employee as City Administrator to perform the functions and duties as currently specified in the Spring Hill Charter, applicable ordinances, the Spring Hill Municipal Code and Tennessee Code Annotated, Section 6-4-101. Such duties shall further include performance of other legally permissible and proper duties and functions as the BOMA may from time to time assign.

Employee will at all times faithfully and industriously, and to the best of Employee's ability, experience and talents, perform all of the duties that may be required of and from Employee pursuant to the express and implicit terms of this Agreement, to the reasonable satisfaction of Employer. Employee's terms and conditions of employment shall be additionally governed by the Personnel Policy of Employer.

DRAFT

2. Term of Employment.

This Agreement shall remain in full force and effect from the date of full execution by both parties, ("Effective Date") until termination by either party as specified herein.

Either Employee or Employer may terminate this Agreement at any time for any reason without cause upon six (6) months' notice. In lieu of providing Employee six (6) months' notice for termination without cause, Employer may pay to Employee a severance payment equal to six (6) months' salary at the rate of pay earned by the Employee at the time of termination. This severance shall be paid in a lump sum unless otherwise agreed to by the Employee and Employer. The Employee shall also be compensated, at the rate of pay earned by the Employee at the time of his termination, for unused sick and vacation leave.

Termination of this Agreement shall be complete upon the terminating party tendering to the other party written notice of his/its intent to terminate this Agreement.

3. Termination for Cause.

This Agreement may be terminated by the Employer upon a finding that:

(a) Employee engages in any unlawful or grossly negligent conduct with regards to his duties of employment with Employer, is guilty of any acts of dishonesty in connection therewith, is convicted of a felony, or is convicted of a misdemeanor involving moral turpitude;

(b) Employee engages in actions deemed to be conflicts of interest as defined by state law, the City's Personnel Policies and procedures (as may be amended), or the City's Code of Ethics;

(c) Employee is primarily residing outside the city limits of Spring Hill, Tennessee;

(d) Employee fails to maintain his certification as an ICMA credentialed manager.

Should the Employee be terminated for any of the reasons enumerated in this section, his severance package shall be limited to reimbursement of actual accrued pay and vacation leave (unused and carried over), at the rate of pay earned by the Employee at the time of his termination of employment.

4. Disability.

If the Employee is permanently disabled, or is otherwise unable to perform his duties because of sickness, accident, injury, mental incapacity or health for a period of four (4) successive weeks beyond any accrued sick leave or family medical leave, the Employer will have the option to terminate this Agreement subject to the severance pay requirement of Section 2 of this Agreement.

5. Vacation.

The Employee shall be entitled to One Hundred Sixty (160) hours of vacation time annually. From Employee's start date until December 31, 2025, Employee shall be entitled to a prorated portion of the One Hundred Sixty (160) hours of vacation time for 2025. Employee may carry over, on a year-to-year basis, unused vacation leave. Carryover amount shall not exceed One Hundred Sixty (160) hours per year. For sake of clarification, at no time will Employee have more than Three Hundred and Twenty (320) hours of vacation leave in a calendar year.

6. Sick Leave.

The Employee shall be entitled to twelve (12) sick days annually. Unused sick leave may carry over on a year-to-year basis pursuant to the personnel policy of Employer.

7. Life Insurance.

The Employer shall provide or, alternately, reimburse Employee for a life insurance policy with a death benefit equal to one times his annual salary.

8. Vehicle Allowance.

The Employer shall pay Employee a Six Hundred Fifty Dollars ($650.00) allowance per month toward vehicular-related expenses as Employee will be utilizing his private vehicle in the course and scope of his employment for Employer. Employee's mileage shall not otherwise be reimbursable in Maury or Williamson Counties. However, Employee's out of Maury or Williamson Counties mileage shall be reimbursed by Employer at the standard federal mileage reimbursement rate.

9. City Provided Technology.

Employer agrees to provide directly or via cash allowance the necessary technology systems, including, but not limited to, computer and computer-related systems, mobile phone, etc., to allow the Employee to adequately maintain connectivity to the City's computer network and communication with the BOMA and other City employees while out of the office.

10. Moving Allowance.

The Employer shall reimburse Employee documented related and/or adjacent moving expenses up to Fifteen Thousand Dollars ($15,000.00) to facilitate Employee's move from Casper, Wyoming.

11. Employment Benefits; Generally.

The Employer will provide the Employee at least the same level of benefits provided to other employees in the City of Spring Hill, including those for health and retirement, and any other

benefits provided to other employees of Employer. The Employer agrees to pay all reasonable litigation expenses of the Employee related to or as a result of the performance of his duties on behalf of Employer throughout the pendency of the litigation to which the Employee is a party, witness or advisor for the Employer. Such expense payments shall continue after the Employee's separation from the Employer for any then-pending litigation.

12. Expenses.

Employee will be reimbursed by Employer for all expenses reasonably and necessarily incurred in furtherance of City-related duties and the business of the City of Spring Hill, not exceeding the amount budgeted therefor each year in the appropriate account.

13. Residency Requirement.

Employee, as a condition of continued employment, must maintain his primary residence within the City of Spring Hill as long as he remains the Spring Hill City Administrator.

14. Professional Development.

The Employer will pay the annual cost of the Employee's membership in the Tennessee City Management Association (TCMA) and the International City/County Management Association (ICMA) as well as any periodic assessments to maintain ICMA certification. The Employer will also pay for the Employee's attendance at the annual TCMA and ICMA conferences.

Employer will pay for the travel and subsistence expenses of Employee for short courses, institutes and seminars that are necessary for his professional development and for the good of the Employer.

15. Community Involvement.

The Employer recognizes the desirability of the Employee's participation in local civic and community organizations in order to maintain continuing awareness of community attitudes and ideas. In support of this involvement, the Employer will pay the approved dues and/or membership fees in civic and community organizations in which the Employee is an active member.

16. Other Employment.

Employee must devote substantially all of Employee's time, attention, knowledge and skills solely to the business and interest of Employer and Employee shall be entitled to all the benefits, profits or other issues arising from or incidental to all work, services and advice of Employee. Nothing herein shall prohibit Employee from engaging in part-time or "gig work" that does not interfere with Employee's duties for Employer.

Employee must not, during the term of this Agreement, be interested directly or indirectly, in any manner, as partner, officer, director or shareholder, advisor or employee or in any other capacity in any other entity doing business with Employer.

Nothing contained in this section shall be deemed to prevent or limit the right of Employee to invest any of Employee's money in capital stock or securities of any corporation whose stocks or securities are publicly owned or are regularly traded on any public exchange, nor shall anything contained in this section be deemed to prohibit Employee from investing or limit Employee's right to invest Employee's money in real estate, to the extent that such investments do not violate Tennessee law, the Spring Hill Municipal Code, the Spring Hill Municipal Charter or any ordinance passed by the BOMA.

17. Goals and Performance.

Annually, the BOMA and Employee shall define such general goals and performance objectives which they determine necessary for the proper operation of the City of Spring Hill and in the attainment of the BOMA's policy objectives, and shall further establish a relative priority among those various goals and objectives. Such goals and objectives shall generally be attainable within the time limitations as may be specified and the annual operating and capital budgets and appropriations provided.

The Employer may conduct an evaluation of the Employee's performance at any time deemed appropriate by majority vote of the BOMA.

18. Compensation.

Employer agrees to pay Employee an annual salary of Two Hundred Fifty-five Thousand Dollars ($255,000.00) payable in installments at the same time that other employees of the Employer are paid. Employee's salary shall be increased annually on the anniversary of this Agreement, by a three (3%) cost of living adjustment. The BOMA may consider a potential increase of Employee's salary in an amount to be determined, if any, or by way of a deferred compensation benefit, on or about August 20, 2027. Employee's pay shall begin once Employee begins full-time work for Employer, expected to be on or about August 20, 2025.

19. Employee's Inability to Contract for Employer.

In spite of anything contained in this Agreement to the contrary, Employee must not make, enter or execute any contract or other commitments, whether written or orally made, for or on behalf of Employer without first obtaining the express consent, through ordinance, resolution, or official policy of the BOMA.

In the event that Employee enters into any agreement or pays any funds under the control of the Employer which has not been specifically approved by ordinance or resolution, the Employee hereby agrees to indemnify and hold harmless the Employer for any costs or damages

incurred by the Employer in connection with such unauthorized agreement, commitment or payment.

It is understood and agreed that Employer may withhold any compensation due under Sections 2 and 3 of this Agreement for reimbursement of such costs or damages.

20. Covenants of Employee.

Employee must not directly or indirectly at any time during his employment with Employer, and for a period of two (2) years after the termination of the Employer-Employee relationship, solicit or attempt to solicit any employee, agent, independent contractor or consultant of Employer to leave employment of Employer. Furthermore, the Employee must not assist or attempt to assist any person, firm or corporation in any way to solicit any employee, agent, independent contractor or consultant of Employer to leave the Employment of Employer.

Upon Employee's termination of employment with Employer, either by expiration of this Agreement or otherwise, Employee shall not be entitled to keep or preserve the records, documents or other instruments of Employer and agrees to return all documents, records and other instruments to Employer regarding the business and operations of the City of Spring Hill.

21. Amendments.

This Agreement must only be amended by the written mutual consent of the Employer and the Employee.

22. Notice.

Any notices required to be sent hereunder shall be hand delivered or sent by certified mail to the following addresses:

Employer:	City of Spring Hill, Tennessee ATTN: Mayor Matt Fitterer P.O. Box 789 Spring Hill, TN 37174 mfitterer@springhilltn.org
Copy to:	Patrick M. Carter, Esq. 809 South Main Street, Suite 100 Columbia, TN 38401 pcarter@mtlawgroup.net (931) 446-1264
Employee:	J. Carter Napier jcartn94@gmail.com (307) 680-6781

23. Effective Date and Severability.

This Agreement contains the entire understanding concerning the employment arrangement between Employee and Employer and shall, on the herein recited Effective Date, supersede all prior agreements between the parties. It is further agreed that neither party has made any representations with respect to the subject matter of this Agreement not specifically included in this Agreement nor has either party relied on any such representation in entering into this Agreement.

The invalidity or partial invalidity of any portion of this Agreement will not affect the validity of any other provision. In the event that any provision of this Agreement is held to be invalid, the remaining provisions shall be deemed to be in full force and effect as if they have been executed by both parties subsequent to the expungement or judicial modification of the invalid provision.

24. Venue and Jurisdiction.

This Agreement shall be interpreted in accordance with Tennessee law and the venue for any dispute between the parties shall be in the Circuit Court for Maury County, Tennessee.

IN WITNESS WHEREOF, the City of Spring Hill, Tennessee, has caused this Agreement to be signed and executed on its behalf by and through its Board of Mayor and Aldermen and duly attested by the City Recorder, and the Employee has signed and executed this Agreement in duplicate.

CITY OF SPRING HILL, TENNESSEE

_____
J. CARTER NAPIER, Employee

By:_____
MATT FITTERER, Mayor

RESOLUTION 25-163

A RESOLUTION OF THE CITY OF SPRING HILL, TENNESSEE, AUTHORIZING THE MAYOR TO SIGN A MEMORANDUM OF UNDERSTANDING WITH KINGS HAMMER SOCCER

WHEREAS, the City of Spring Hill, Tennessee previously purchased undeveloped land off Hurt Rd for the development of a city park and/or recreation opportunities,

WHEREAS, the City currently has a deficiency of fields suitable for youth athletics,

WHEREAS, the City currently has no timeline on when improvements might be made to the Hurt Rd land for park and/or recreation opportunities utilizing City funds or resources,

WHEREAS, Kings Hammer Soccer LLC has proposed to develop a portion of the Hurt Rd land for the use of soccer fields.

NOW, THEREFORE, BE IT RESOLVED by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, that:

Section 1. The Mayor is hereby authorized to sign the Memorandum of Understanding with Kings Hammer Soccer, LLC attached herein as Exhibit A.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____

April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

Date:	July 7, 2025
Memo To:	Board of Mayor and Aldermen
From:	Matt Fitterer, Mayor
RE:	Kings Hammer / Hurt Rd MOU

The City purchased undeveloped land on Hurt Rd in 2024 with the intention of developing the property into a public park. The City did not move forward with preliminary design work in 2024 due to funding limitations. No funds were budgeted in FY2026 for the development of the Hurt Rd land.

Kings Hammer is a youth soccer club interested in creating recreational opportunities in Spring Hill. The City currently does not have an adequate number of soccer fields in order to accommodate the number of youth who desire to participate in youth soccer. Kings Hammer is proposing to construct improvements on approximately 10 acres of the Hurt Rd land to be utilized as soccer fields. Kings Hammer would then ground lease the improved area from the City for 15 years.

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (the "MOU"), is entered into on this __ d a y o f _____, 2025 (the "Effective Date"), by and between **Kings Hammer Soccer, LLC**, an Ohio limited liability company ("Kings Hammer"), located at 50 E. RiverCenter Blvd., Suite 150, Covington, KY 41011, and the City of Spring Hill, a Tennessee municipal corporation, located at 199 Town Center Parkway, Spring Hill, TN 37174 ("City"). Kings-Hammer and City may be referred to individually as (the "Party", or collectively, the "Parties").

1. PURPOSE AND SCOPE

The Parties hereby enter into this Memorandum to summarize their mutual agreements relating to the lease of Land owned by the City to Kings-Hammer for the improvement and use of said Land for active recreational sports fields (the "Project") on the +/- 9.79-acre property owned by the City located in Spring Hill, Tennessee (the "Land"). The Land is identified as parcel number 166 00610 00011166 in the records of the Williamson County Property Assessor's Office and a depiction of the Land is attached hereto as "Exhibit A" and incorporated herein. This MOU reflects the Parties' negotiations and is intended to outline the terms of a potential development agreement and/or ground lease (the "Agreements"). The Agreements will include additional terms and conditions which are not set forth herein. Until the Agreements are signed by both Parties, either Party may decide not to proceed with the proposed Agreements for any reason or no reason and may terminate this Memorandum by delivering at least thirty (30) days advance written notice to the other, subject to the provisions in this Memorandum.

2. SHARED GOALS OF THE PARTIES

Kings-Hammer and City desire to create active recreational opportunities for the community, specifically quality soccer training fields *and consideration of further integration and connection of the City's walking trails to and from the Project.*

3. RESPONSIBILITIES AND OBLIGATIONS OF KINGS-HAMMER

Kings-Hammer agrees that the Project will be developed under the following terms, conditions, and constraints:

a. Kings Hammer will oversee thorough assessments of the physical condition, of the Land and commission all necessary civil engineering and design of the soccer fields on the Land;
b. Project will comply with applicable city, state and federal legal requirements;
c. Kings Hammer will present conceptual design, schematic design, and final construction documents for review and approval by the City at each stage of the process;
d. Kings Hammer will provide predevelopment funding and all necessary financing to develop the Project and will not require any additional funding from the City (outside of the agreed upon ground lease for the Land), unless otherwise agreed upon between the Parties;
e. Kings Hammer will work with the City to design ingress/egress plans (including

obtaining a curb-cut at an agreed upon location to access the Project), as well as a parking plan among other things;

f. Kings Hammer will coordinate monthly progress meetings with a Project Management Group consisting of the Kings Hammer, project civil engineer, along with City's designees;
g. Kings Hammer will provide long-term operations and maintenance of the Project;
h. Kings Hammer anticipates commencing development activities, as further illustrated in the milestone schedule reflected on "Exhibit B" attached hereto and incorporated herein, no later than twelve (12) months after the execution of the Agreements (or such other feasible date that may be agreed to by the Parties after execution of this Memorandum), subject to the satisfactory and reasonable response, approval and cooperation from the City and associated approval authorities.

4. RESPONSIBILITIES AND OBLIGATIONS OF CITY

City agrees that the Project will be developed under the following terms, conditions and constraints:

a. City retains ownership of the Land;
b. City will allow Kings Hammer access to Land for surveying and/or testing, as required for planning and due diligence prior to the execution of Agreements;
c. City will negotiate in good faith a ground lease upon the following base terms: Term: 15 years; Annual Rent: $5,000 per year; Maintenance Obligation By: Kings Hammer;
d. City will provide administrative support to successfully work through the required reviews and approvals through issuance of certificate of occupancy for the Project;
e. City will use good faith, diligent efforts to cooperate with Kings Hammer in seeking its applicable entitlements, approvals, and permits for the Project, including obtaining a curb cut-off at an agreed upon location for direct ingress and egress from the site; and
f. City will work in good faith with Kings Hammer to achieve acceptable Project feasibility through appropriate support and consideration of environmental remediation, affordability, design, sustainability, transportation, and other Project requirements and preferences.

5. TERMS OF UNDERSTANDING

Subject to Section 1, the term of this Memorandum shall be for a period of twelve (12) months from the Effective Date and may be extended upon written mutual agreement of both Parties. Upon execution hereof, the Parties will use diligent, good faith efforts to finalize and execute the Agreements. The Agreements will supersede and terminate this Memorandum.

6. LEGAL COMPLIANCE

The Parties acknowledge and understand that they must be able to fulfill their responsibilities under this Memorandum in accordance with the terms and conditions hereof and the provisions of the law and regulations that govern their activities. Nothing in the Memorandum is intended to negate or otherwise render ineffective any such provisions or operating procedures. The Parties assume full responsibility for their performance under the terms of this Memorandum and acknowledge time

is of the essence.

If at any time either Party is unable to perform their duties or responsibilities under this Memorandum as required hereunder, the affected Party shall immediately provide written notice to the other Party to establish a date for resolution of the matter.

7. LIMITATION OF LIABILITY

No rights or limitation of rights shall arise or be assumed between the Parties as a result of the terms of this Memorandum.

8. NOTICES

Any notice or communication required or permitted under this Memorandum shall be sufficiently given if delivered in person, by email, or by certified mail, return receipt requested, to the address set forth below or to such address that has been furnished to the other in writing.

City of Spring Hill
ATTN. City Administrator
Email:
Address: 199 Town Center Parkway
Spring Hill, TN 37174

Copy to: Patrick M. Carter, Esq.
pcarter@mtlawgroup.net
809 South Main Street, Suite 100
Columbia, TN 38401

Kings Hammer

ATTN. Chris Peterman, CEO
Email: cpeterman@kingshammer.com
Address: 50 E. Rivercenter Blvd.
Covington, KY 41011

9. GOVERNING LAW; VENUE AND JURISDICTION

This Memorandum shall be governed by and construed in accordance with the laws of the State of Tennessee. Exclusive venue and jurisdiction for any litigation brought pursuant to or with regard to this MOU shall be in the Circuit Court for Maury County, Tennessee.

10. COST REIMBURSEMENT

As part of its due diligence to deliver the Project, Kings Hammer may incur additional future environmental, geotechnical, civil engineering, architectural, and other predevelopment costs ("Predevelopment Costs"). In the event the City, through no fault of Kings Hammer, elects to terminate this Memorandum pursuant to Section 1 or does not enter into the Agreements with Kings Hammer within twelve (12) months of the Effective Date, the City shall, within sixty (60) calendar days of written notice from Kings Hammer, reimburse Kings Hammer the actual Predevelopment Costs incurred, not to exceed Twenty-five Thousand Dollars ($25,000.00). Kings Hammer will provide invoices and documentation to support the Predevelopment Costs with written request for reimbursement.

11. EXCLUSIVITY

The City agrees that, for twenty-four (24) months after the Execution Date, City will not enter into any binding or non-binding agreements concerning any financing, investment, operational, or business arrangements on the Land, or otherwise enter into any agreement that would preclude or materially impair the Kings Hammer from performing the responsibilities or accomplishing its obligations herein. The Parties agree to negotiate in good faith the terms and provisions of the Agreements and to use reasonable, diligent efforts to finalize and execute such Agreements.

12. AUTHORIZATION AND EXECUTION

The purpose of this Memorandum is to set forth the general description of a proposed transaction and to indicate the willingness of the Parties to continue negotiations with respect to such

transaction, using good faith and to the best of their abilities, the goals and objectives stated in this MOU. The signing of this Memorandum shall not constitute a legally binding agreement between the Parties or place a legally enforceable obligation upon the Parties, except with respect to the Cost Reimbursement and Exclusivity provisions contained herein, which provisions shall survive the termination of this Memorandum.

13. ASSIGNABILITY

This Memorandum shall not be assignable by either Party without the express written consent of other Party; provided, however, that Kings Hammer may assign its interest in this Memorandum, and its rights and obligations hereunder, to an entity that controls, is controlled by, or under common control with the Kings Hammer upon written notice to the City, which notice shall include the assignee's written confirmation that it has assumed Kings Hammer's interest and rights and obligations under this Memorandum.

14. COUNTERPARTS

This Memorandum may be executed in counterparts, each of which will be deemed an original and all of which together will constitute one and the same instrument.

15. ELECTRONIC SIGNATURES

Each party agrees that the signatures of the parties included in this Memorandum, whether affixed on an original document manually and later electronically transmitted or whether affixed by an electronic signature through an electronic signature system such as DocuSign, are intended to authenticate this writing and to create a legal and enforceable agreement between the parties hereto.

[SIGNATURE PAGE FOLLOWS]

This MOU shall be signed by City of Spring Hill and Kings Hammer Soccer, LLC, and shall be effective as of the date first written above.

CITY:

CITY OF SPRING HILL,
a Tennessee municipal corporation

By: _____
Name/Title: MATT FITTERER, Mayor

KINGS-HAMMER:

Kings Hammer Soccer, LLC,
An Ohio limited liability company

By: _____
Its: CEO

EXHIBIT A

Property Address:
Parcel Number: 166 00610 00011166
Total Acreage: +/- 9.79

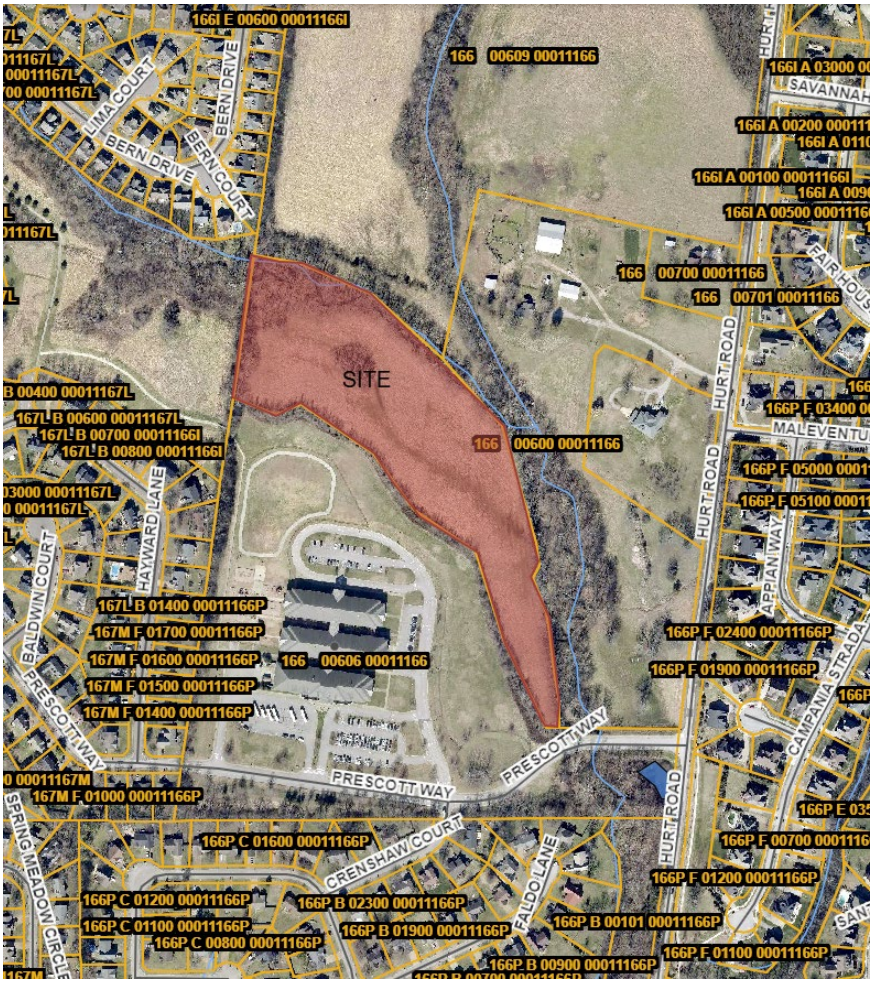


EXHIBIT B
MILESTONE SCHEDULE

The dates provided herein are explicitly targets and not contractual obligations.

_____ 2025

-

_____2025

-

_____2025

-

_____2025

RESOLUTION 25-164

A RESOLUTION OF THE CITY OF SPRING HILL, TENNESSEE, AUTHORIZING THE MAYOR TO SIGN A FUNDING PARTICIPATION AGREEMENT WITH SSVM MITCHUM SUB LLC AND 3586 KCTN LLC

WHEREAS, SSVM Mitchum Sub LLC and 3586 KCTN LLS is the owner of +/- 365 acres of property located in Maury County, Tennessee on the south side of Kedron Road, west of Interstate 65, adjacent to the City boundary line; and

WHEREAS, the SSVM Mitchum Sub LLC and 3586 KCTN LLS has obtained preliminary plat approval from the Maury County Planning Commission for the construction of a 290 single family home subdivision on the Developer Property ("Ragan Ridge Estates"), which will increase traffic volume on Kedron Road and Port Royal Road; and

WHEREAS, the portion of Kedron Road that will connect with the Development Property is under the maintenance and control of the City; and

WHEREAS, it has been determined by the City that the Kedron Road and Port Royal intersection will experience and increase in traffic volume from the Developer Property, and that a realignment of the intersection and improvements to Kedron Road, Port Royal Road, and Greens Mill Road are warranted; and

WHEREAS, Developer agrees to pay $2,000,000 to the City (the "Developer's Payment") in exchange for the City's approval of the connection of the Developer Property to Kedron Road.

NOW, THEREFORE, BE IT RESOLVED by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee, that:

Section 1. The Mayor is hereby authorized to sign the Funding Participation Agreement with SSVM Mitchum Sub LLC and 3586 KCTN LLC attached herein as Exhibit A.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____

April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

FUNDING PARTICIPATION AGREEMENT

THIS AGREEMENT, entered into this the___day of _____, 2025, by and between SSVM MITCHUM SUB LLC and 3586 KCTN LLC, c/o Suncrest, Tennessee limited liability companies ("Developer"), and the CITY OF SPRING HILL, TENNESSEE, a municipal corporation organized and existing under the laws of the State of Tennessee (the "City").

WITNESSETH

WHEREAS, Developer is the owner of +/- 365 acres of property located in Maury County, Tennessee on the south side of Kedron Road, west of Interstate 65, adjacent to the City boundary line (the "Developer Property"), as more particularly described on the attached Exhibit A; and

WHEREAS, the Developer has obtained preliminary plat approval from the Maury County Planning Commission for the construction of a 290 single family home subdivision on the Developer Property ("Ragan Ridge Estates"), which will increase traffic volume on Kedron Road and Port Royal Road; and

WHEREAS, the portion of Kedron Road that will connect with the Development Property is under the maintenance and control of the City; and

WHEREAS, it has been determined by the City's traffic engineer that the Kedron Road and Port Royal intersection cannot adequately accommodate the increased traffic from the Developer Property, and that a realignment of the intersection and improvements to Kedron Road, Port Royal Road, and Greens Mill Road (the "Improvements") are warranted, all of which are more particularly described in the Development Access Review attached as Exhibit B (the "Review"); and

WHEREAS, Developer agrees to pay $2,000,000 to the City (the "Developer's Payment") in exchange for the City's approval of the perpetual, and except as otherwise provided herein, the unconditional connection of the Developer Property to Kedron Road.

NOW, THEREFORE, in consideration of the mutual covenants and assurances set forth herein, the Developer and the City do hereby agree as follows:

1. Recitals

The foregoing Recitals are incorporated into this Agreement and are made a part hereof.

2. Developer Responsibilities

A. Prior to the issuance of a building permit for the construction of the first home on the Developer Property, Developer shall pay the Developer's Payment via certified funds or electronic wire to the City to be used for the Improvements.

B. If work has not commenced on the Improvements upon the completion of Ragan Ridge Estates, Developer, in coordination with and upon the City's approval, which approval shall not be

unreasonably withheld, conditioned, or delayed, shall be entitled to optimize the traffic signal at Kedron Road and Port Royal at Developer's sole expense.

C. Developer agrees that until the Developer's Payment is made to the City, the City has the right to restrict access onto Kedron Road except for construction traffic associated with construction on the Developer Property and the existing driveway access to the Developer Property.

D. As part of the Ragan Ridge Estates development and the connection of the Property to Kedron Road, Developer, in coordination with the City, agrees to construct left and right hand turn lanes from Kedron Road onto the new access road at the Property. The connection to Kedron Road from the Property will be constructed in accordance with the Tennessee Department of Transportation and the City's roadway design standards. The City shall not unreasonably withhold, condition, or delay approval of the connection point from the new Property access road to Kedron Road.

Deleted: adhere to sightline requirements per

3. City Responsibilities

A. The City will be responsible for the construction of the Improvements. Developer will have no responsibility for the Improvements other than the payment pursuant to Section 2 of this Agreement.

B. The City agrees that Developer shall be allowed access to Kedron Road at the time of the payment of the Developer's Payment whether the planned Improvements have been made by the City to the Kedron Road and Port Royal intersection or not. For the avoidance of doubt, once the Developer has paid the Developer's Payment to the City, the City shall not take any future action that would eliminate or restrict access to the Developer Property.

C. The City will establish a designated fund account for the improvements to the Kedron Road and Port Royal intersection. This fund account will hold funds dedicated to the improvement of Kedron Road and Port Royal Intersection. The City is not obligated to improve the intersection until the necessary funds have been dedicated to the project and the Board of Mayor and Aldermen adopt a Capital Improvement Project budget and plan for the intersection.

4. Further Assurances

The Parties each hereby agree to execute and deliver all of the agreements and documents required to be executed and delivered by them in furtherance of this Agreement, and to execute and deliver such additional instruments and documents and to take such additional actions as may be reasonably required from time to time in order to effectuate the transactions contemplated by this Agreement.

5. Non-Waiver

None of the terms, covenants or conditions of this Agreement shall be deemed waived by any act of either Party unless same is specified in writing executed by all Parties hereto.

6. Governing Law

This Agreement shall be construed under and enforced pursuant to the laws of the State of Tennessee.

7. Venue and Jurisdiction

Exclusive venue and jurisdiction for any litigation brought pursuant to or with regard to this Agreement shall be in the Circuit Court for Maury County, Tennessee.

8. Severance

Should any provision of this Agreement be declared invalid, illegal, or unenforceable by acourt of competent jurisdiction, the invalidity, illegality, or unenforceability shall not affect other provisions of this Agreement, which shall remain in full force and effect.

9. Captions

Captions of the sections of this Agreement are for convenience and reference only and shall in no way be held to explain, modify, amplify, or aid in the interpretations, construction, or meaning of the provisions of this Agreement.

10. Amendment

This Agreement shall be amended only in writing executed by all Parties hereto.

11. Assignment

This Agreement shall not be assigned by the Developer to a third party without the prior written consent of the City, which shall not be unreasonably withheld.

12. Time is of the essence.

All Parties hereto acknowledge that time is of the essence, and each party will commit to its timely compliance with this Agreement.

13. Binding Effect

This Agreement shall be binding upon each of the parties hereto, their successors, heirs and assigns and that there are no understandings or agreements between them except as contained in this Agreement.

14. Entire Agreement

This writing constitutes the entire agreement between the Parties and supersedes all previous agreements, if any. No Party to this Agreement makes any representation to the other Party, except as expressly set forth in this Agreement.

15. Execution

This Agreement may be executed in one or more identical counterparts, each of which shall be deemed to be an original for all purposes, and all of which taken together shall constitute a single instrument.

Approved by the City of Spring Hill Board of Mayor and Aldermen on_____,

2025.

SO AGREED by the undersigned parties as of the date first given.

CITY OF SPRING HILL, TENNESSEE

SSVM MITCHUM SUB LLC

By: _____ By: _____

Title: _____ Title: Mayor

3586 KCTN LLC

By: _____

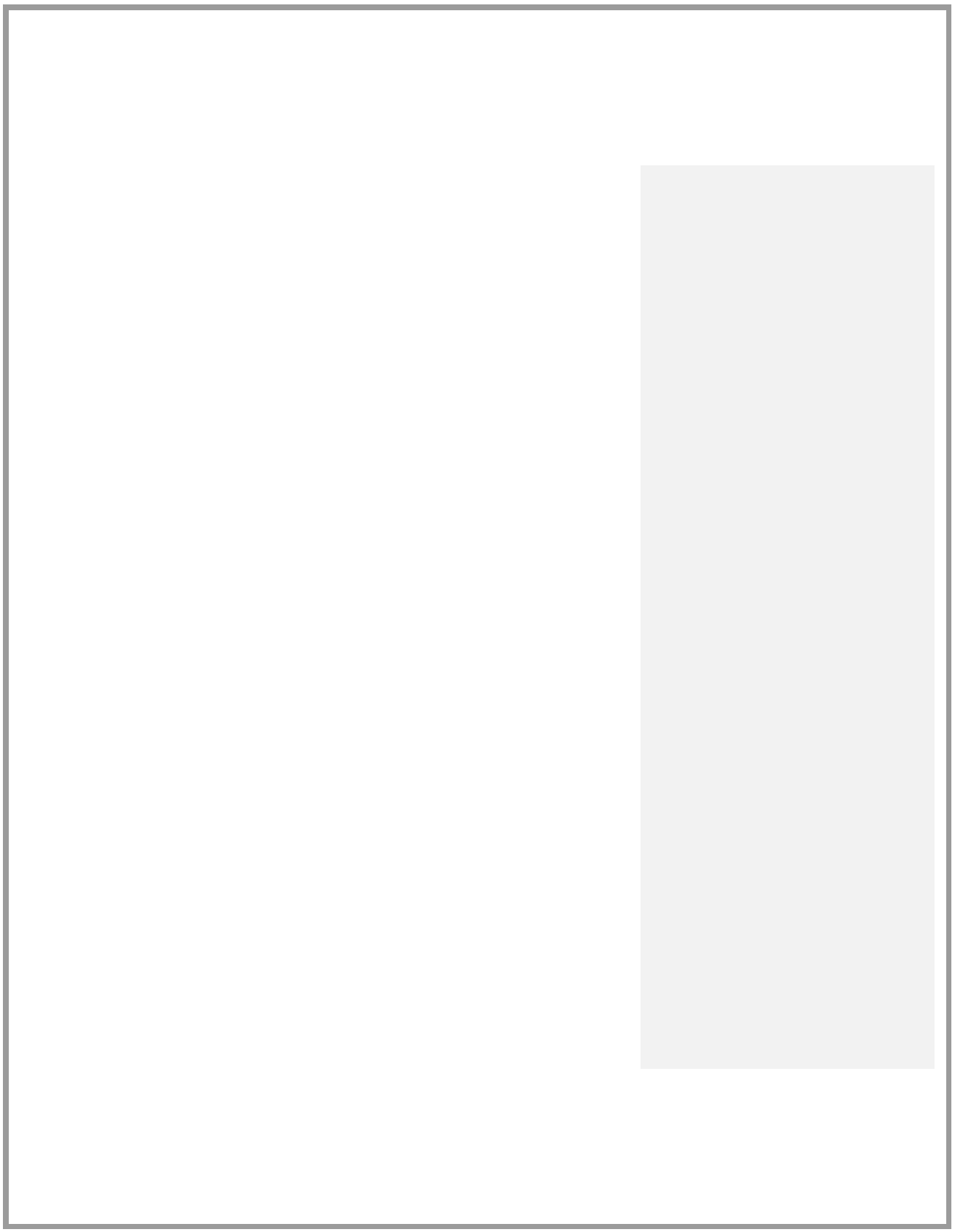
Title: _____

Exhibit A

Developer Property

Exhibit B

Development Access Review



FUNDING PARTICIPATION AGREEMENT

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WITNESSETH

WHEREAS, Developer is the owner of +/- 365 acres of property located in Maury County, Tennessee on the south side of Kedron Road, west of Interstate 65, adjacent to the City boundary line (the "Developer Property"), as more particularly described on the attached Exhibit A; and

WHEREAS, the Developer has obtained preliminary plat approval from the Maury County Planning Commission for the construction of a 290 single family home subdivision on the Developer Property ("Ragan Ridge Estates"), which will increase traffic volume on Kedron Road and Port Royal Road; and

WHEREAS, the portion of Kedron Road that will connect with the Development Property is under the maintenance and control of the City; and

WHEREAS, it has been determined by the City's traffic engineer that the Kedron Road and Port Royal intersection cannot adequately accommodate the increased traffic from the Developer Property, and that a realignment of the intersection and improvements to Kedron Road, Port Royal Road, and Greens Mill Road (the "Improvements") are warranted, all of which are more particularly described in the Development Access Review attached as Exhibit B (the "Review"); and

WHEREAS, Developer agrees to pay $2,000,000 to the City (the "Developer's Payment") in exchange for the City's approval of the perpetual, and except as otherwise provided herein, the unconditional connection of the Developer Property to Kedron Road.

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14. Entire Agreement

This writing constitutes the entire agreement between the Parties and supersedes all previous agreements, if any. No Party to this Agreement makes any representation to the other Party, except as expressly set forth in this Agreement.

15. Execution

This Agreement may be executed in one or more identical counterparts, each of which shall be deemed to be an original for all purposes, and all of which taken together shall constitute a single instrument.

Approved by the City of Spring Hill Board of Mayor and Aldermen on_____, 2025.

SO AGREED by the undersigned parties as of the date first given.

CITY OF SPRING HILL, TENNESSEE

SSVM MITCHUM SUB LLC

By: _____

Title: _____

By: _____

Title: Mayor

3586 KCTN LLC

By: _____

Title: _____

Exhibit A

Developer Property

Exhibit B

Development Access Review

ORDINANCE NO. 25-18

AN ORDINANCE TO AMEND SECTION 10-102 OF THE SPRING HILL MUNICIPAL CODE REGARDING THE KEEPING OF BACKYARD HENS

WHEREAS, the City of Spring has identified itself for decades as "a blend of commerce, history, and country living"; and

WHEREAS, the Board of Mayor and Aldermen of the City of Spring Hill previously adopted Resolution 14-62 establishing a permitting process and related conditions for the keeping of backyard hens; and

WHEREAS, Section 10-102 of the Spring Hill Municipal Code regulates the keeping of certain animals within the city and authorizes permitting under certain public health conditions; and

WHEREAS, the Board of Mayor and Aldermen desires to update the conditions under which backyard hens may be kept, based on evolving residential development patterns and administrative needs; and

WHEREAS, the revised language provides proportional lot-based allowances for backyard hens to promote country living while continuing to safeguard public health and neighborhood standards;

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF SPRING HILL, TENNESSEE, as follows:

Amendments to Title 10, Animal Control

§ 10-102 Spring Hill Code of Ordinances currently says, "*No person shall keep any animal or fowl enumerated in the preceding section within 1,000 feet of any residence, place of business or public street, without a permit from the Health Officer. The Health Officer shall issue a permit only when, in his or her sound judgement, the keeping of such an animal in a yard or building under the circumstances as set forth in the application for the permit will not injuriously affect public health."*

Spring Hill Municipal Code § 10-102 is hereby amended as follows regarding the keeping of hens:

§ 10-102 "*The number of hens permitted shall be limited to* ***one (1) hen per 1,500 square feet of lot area****, not to exceed the limit established by applicable zoning regulations and permitted by the Development Services Director or designee. Fractional calculations shall round down to the nearest whole number. The Development Services Director or designee shall issue a permit only when, in their sound judgment, the keeping of such an animal in a yard or building under the circumstances set forth in the application will not injuriously affect public health."*

BE IT FURTHER ORDAINED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF SPRING HILL, TENNESSEE, as follows:

Authority to administer and issue Backyard Hen Permits shall reside with the Development Services Director or designee, who shall verify compliance with this section and supporting regulations.

§ 10-107 Spring Hill Code of Ordinances currently says, "Any animal or fowl running at large or otherwise being kept in violation of this chapter may be seized by Health Officer, or by any police officer and confined . . ."

§ 10-107 Spring Hill Municipal Code § 10-102 is hereby amended as follows:

"Any animal or fowl running at large or otherwise being kept in violation of this chapter may be seized by Health Officer, *Development Services Director or designee*, or by any police officer and confined . . ."

BE IT FURTHER ORDAINED BY THE BOARD OF MAYOR AND ALDERMEN OF THE CITY OF SPRING HILL, TENNESSEE, as follows:

§ 10-108 Spring Hill Code of Ordinances currently says, "For the purpose of making inspections to ensure compliance with the provisions of this title, the Health Officer or his or her authorized representative shall be authorized to enter . . . "

§ 10-108 Spring Hill Municipal Code § 10-102 is hereby amended as follows:

"For the purpose of making inspections to ensure compliance with the provisions of this title, the Health Officer or his or her authorized representative or the *Development Services Director or designee* shall be authorized to enter . . . "

This ordinance shall take effect immediately following its passage on second reading, the public welfare requiring it. All resolutions, ordinances, or parts thereof in conflict herewith are hereby repealed.

Passed and adopted on July 21st 2025.

Passed on First Reading: _____

Passed on Second Reading: _____

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Ordinance 25-18***

SUBMITTED BY: **Alderman Vincent Fuqua**

DATE: **June 2, 2025**

RE: **Amend Municipal Code Related to Backyard Hens**

BACKGROUND:

Under the current city ordinance, residents are permitted to keep a maximum of four hens, regardless of the size of their property. This cap does not account for the significant variation in residential lot sizes across Spring Hill. Many residents with larger lots have expressed interest in maintaining more hens to increase their access to fresh eggs, promote sustainable living, and support local food sources.

PROPOSAL:

Revise the existing chicken ordinance to allow:

- One (1) hen per 1,500 square feet of land,
- While maintaining prohibitions on roosters, and
- Continuing requirements for appropriate coop structure, setbacks, and cleanliness.

DISCUSSION:

This memorandum proposes an amendment to the current ordinance regulating backyard chickens within the city limits of Spring Hill, Tennessee. The proposed change seeks to increase the maximum allowable number of hens from four (4) to a scalable amount based on lot size, specifically one (1) hen per 1,500 square feet of land.

This change allows for a more equitable and practical approach to backyard poultry, especially for homeowners with larger lots, without compromising on standards of care or community impact.

Benefits:

- Scalability and Fairness: Residents with larger properties can responsibly maintain more hens.
- Sustainability: Supports local food production and self-sufficiency.
- Community Interest: Encourages responsible urban farming practices in line with growing public interest.

Next Steps:

We request the City Council review and consider the proposed amendment for inclusion in an upcoming meeting agenda. We welcome community input and are prepared to collaborate on refining details such as upper limits (if any), enforcement protocols, and updated permitting processes.

RESOLUTION 25-165

A RESOLUTION TO APPROVE BLANKET PURCHASE ORDERS

FOR FISCAL YEAR 2025-2026

WHEREAS, the City of Spring Hill adopted the 2025-2026 fiscal year budget per Ordinance 25-13 in June 2025; and

WHEREAS, certain routine budgeted operational expenditures and expenses require purchase orders for a total cost exceeding $1,000 for which vendors agree to provide goods or services on a demand basis; and

WHEREAS, City staff issues blanket purchase orders for such purchases as anticipated throughout the fiscal year; and

WHEREAS, effective date of this resolution will be July 1, 2025.

NOW, THEREFORE BE IT RESOLVED, the City of Spring Hill Board of Mayor and Aldermen approves purchases and blanket purchase orders as listed on Exhibit A, attached hereto.

Passed and Adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on the 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

REQUEST: ***Approval of Resolution 25-165***

SUBMITTED BY: **Rebecca Holden, Finance Director**

DATE: **July 7, 2025**

RE: **Blanket PO's**

PURPOSE:

The purpose of this resolution is to allow seamless purchasing in departments for on-demand purchases without interruption.

BACKGROUND:

Exhibit A has provided a list of vendors and amounts for items that are purchased on demand. Typically, these purchase orders are used throughout the fiscal year and as items are needed and not spent all at one time. A resolution is brought before the Board of Mayor and Alderman at the beginning of the fiscal year to gain approval for these on demand purchases. The Finance Office has reviewed each of the items to ensure budgetary compliance.

FINANCIAL IMPACT:

All departments have budgeted for the purchases in their respective departments.

STAFF RECOMMENDATION:

Staff recommends approval of Resolution 25-165 to allow all departments to use blanket purchase orders for a period of one-year ending June 30, 2026, and authorizes the Finance Department to manage the purchase order balances to ensure fiscal management.

Blanket Purchase Orders - FY2026

No.	Fund	Division	Object	GL	R/E	Division Description	Object Description	Vendor Number	Vendor Name	PO Amount	Notes
1	110	41500	52111	110-41500-52111	E	Finance	Postage	9741	Flex Digital	$ 27,000.00	Postage Services
2	110	41500	52202	110-41500-52202	E	Finance	Printing & Mailing Services - Billing	9741	Flex Digital	$ 7,000.00	Printing Services
3	110	41500	53112	110-41500-53112	E	Finance	Office Supplies - General	4034	Staples	$ 15,000.00	Office Supplies
4	110	41800	52651	110-41800-52651	E	Facilities	Repairs & Maintenance Grounds & Ground Improvement	2626	Home Depot	$ 10,000.00	Repair and Maint Grounds
5	110	41800	52651	110-41800-52651	E	Facilities	Repairs & Maintenance Grounds & Ground Improvement	1987	Lowes	$ 10,000.00	Repair and Maint Grounds
6	110	41800	52651	110-41800-52651	E	Facilities	Repairs & Maintenance Grounds & Ground Improvement	9511	2 the T Tree Service	$ 3,000.00	Tree Trimming/Bush Trimming
7	110	41800	52661	110-41800-52661	E	Facilities	Repair and Maintenance Buildings	2626	Home Depot	$ 18,000.00	Repair and Maint Bldgs
8	110	41800	52661	110-41800-52661	E	Facilities	Repair and Maintenance Buildings	1987	Lowes	$ 18,000.00	Repair and Maint Bldgs
9	110	41800	52691	110-41800-52691	E	Facilities	Repair and Maintenance - Other	1756	Grainger	$ 10,000.00	Repair and Maint Facilities
10	110	41800	52691	110-41800-52691	E	Facilities	Repair and Maintenance - Other	384	Bruhn & Bruhn	$ 8,400.00	Fire Sprinkler System Inspections
11	110	41800	52691	110-41800-52691	E	Facilities	Repair and Maintenance - Other	10021	South Western Communications	$ 3,000.00	Fire Alarm Maint
12	110	41800	52691	110-41800-52691	E	Facilities	Repair and Maintenance - Other	521	Bug Out	$ 8,000.00	Spraying
13	110	41800	53241	110-41800-53241	E	Facilities	Janitorial Supplies	199	A-Z	$ 40,000.00	Janitorial Supplies
14	110	41800	53241	110-41800-53241	E	Facilities	Janitorial Supplies	5010	U-Line	$ 10,000.00	Janitorial Supplies
15	110	41800	53261	110-41800-53261	E	Facilities	Clothing	6054	Cintas	$ 1,100.00	Uniforms
16	110	41800	53261	110-41800-53261	E	Facilities	Clothing	1040	Impressions	$ 3,000.00	Uniforms
17	110	41800	53311	110-41800-53311	E	Facilities	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri Star Energy	$ 3,000.00	Fuel
18	110	42110	52511	110-42110-52511	E	Police Administration	Medical, Dental, Pharmacy	10554	Dr. Brenda Rambo	$ 2,500.00	Fit for Duty Evaluations/ Psychological Evals $250 per eval
19	110	42110	52721	110-42110-52721	E	Police Administration	Office Equipment Contracts	5506	Stericycle	$ 2,700.00	Paper Shredding Service $224.24 per month
20	110	42110	52723	110-42110-52723	E	Police Administration	Subscription Services	2738	LexisNexis	$ 1,900.00	42555MMY6 - access for officers to review laws and codes online
21	110	42110	53261	110-42110-53261	E	Police Administration	Clothing	1882	Green Military	$ 2,500.00	Uniform & Equipment
22	110	42110	53261	110-42110-53261	E	Police Administration	Clothing	1759	Galls, LLC	$ 4,000.00	42110 Admin Uniform Allotment
23	110	42110	53311	110-42110-53311	E	Police Administration	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy Llc Pacific Pride	$ 10,000.00	42110 Fuel (full budgeted amount for the year)
24	110	42121	52723	110-42121-52723	E	Police Criminal Investigation	Subscription Services	4622	Thomson/West	$ 5,400.00	Clear View Plus (WEST) $416 monthly cost + 340 subscription fee
25	110	42121	53261	110-42121-53261	E	Police Criminal Investigation	Clothing	1759	Galls, LLC	$ 2,000.00	42121 Criminal Investigation Uniform Allotment 8 employees X $150 clothing allotment + one employee on CERT ($200.00) + two narcotic employees @ $250each
26	110	42121	53311	110-42121-53311	E	Police Criminal Investigation	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy Llc Pacific Pride	$ 36,000.00	42121 Fuel (full budgeted amount for the year)
27	110	42123	52612	110-42123-52612	E	Police Field Operations	Vehicle Tow Services	9628	Gentry Towing & Recovery	$ 2,000.00	Towing Service
28	110	42123	52612	110-42123-52612	E	Police Field Operations	Vehicle Tow Services	4197	Spring Hill Towing Service	$ 2,000.00	Towing Service
29	110	42123	53261	110-42123-53261	E	Police Field Operations	Clothing	1759	Galls, LLC	$ 60,000.00	42123 Field Operations Uniform Allotment
30	110	42123	53261	110-42123-53261	E	Police Field Operations	Clothing	1759	Galls, LLC	$ 10,000.00	New Hire Uniform, Body Armor Replacement, Duty Gear
31	110	42123	53281	110-42123-53281	E	Police Field Operations	Specialized Units	9499	TNVC, Inc	$ 15,000.00	SRT Equipment such as night vision, lasers etc
32	110	42123	53281	110-42123-53281	E	Police Field Operations	Specialized Units	1839	Gulf State Distributors	$ 10,000.00	SRT Ammo and Equipment
33	110	42123	53311	110-42123-53311	E	Police Field Operations	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy Llc Pacific Pride	$ 90,000.00	42123 Fuel
34	110	42140	52518	110-42140-52518	E	Police Drug Investigation and Control	Veterinary Services	2097	Healthy Petz	$ 3,500.00	K9 Checkup and Veterinarian Services

Blanket Purchase Orders - FY2026

No.	Fund	Division	Object	GL	R/E	Division Description	Object Description	Vendor Number	Vendor Name	PO Amount	Notes
35	110	42140	53261	110-42140-53261	E	Police Drug Investigation and Control	Clothing	1759	Galls, LLC	$ 3,000.00	42140 Drug Investigation Uniform Allotment 2 employees X 750allotment + 250 + 250 SRT allotment (full budgeted amount)
36	110	42140	53311	110-42140-53311	E	Police Drug Investigation and Control	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy Llc Pacific Pride	$ 8,000.00	42140 Fuel (full budgeted amount for the year)
37	110	42150	53261	110-42150-53261	E	Police Support	Clothing	1759	Galls, LLC	$ 15,000.00	42150 Support Uniform Allotment
38	110	42150	53273	110-42150-53273	E	Police Support	Ammo	1839	Gulf State Distributors	$ 20,000.00	Department Ammo and Equipment
39	110	42150	53273	110-42150-53273	E	Police Support	Ammo	10001	Blackfox Tactical	$ 20,000.00	Practice Ammo and Equipment
40	110	42150	53276	110-42150-53276	E	Police Support	Evidence Supplies	1413	Evident Crime Scene Products	$ 4,000.00	Evidence Supplies Orders
41	110	42150	53311	110-42150-53311	E	Police Support	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy Llc Pacific Pride	$ 19,000.00	42150 Fuel
42	110	42160	52511	110-42160-52511	E	PD Building & Grounds	Medical, Dental, Pharmacy	10055	Unifirst	$ 2,500.00	First Aid & Safety Supplies 3 medical box cleaning and refill
43	110	42160	53291	110-42160-53291	E	PD Building & Grounds	Other Operating Supplies	11450	Sudexo / InReach	$ 5,000.00	Coffee - 6 Months
44	110	42210	52691	110-42210-52691	E	Fire Administration	Repair and Maintenance - Other	2626	Lowe's	$ 3,000.00	General Maintenance/Repairs/ of Station Appliances
45	110	42210	53261	110-42210-53261	E	Fire Administration	Clothing	6054	Impressions	$ 7,000.00	Dept. Duty Tee Shirts
46	110	42210	53291	110-42210-53291	E	Fire Administration	Other Operating Supplies	124	Amazon	$ 3,000.00	Various Office Products/Supplies
47	110	42210	53291	110-42210-53291	E	Fire Administration	Other Operating Supplies	1397	Embleholics Challenge Coins	$ 2,400.00	PR Materials / Station 4 Opening - Administration
48	110	42220	51791	110-42220-51791	E	Fire Operations	Health and Wellness Fees	2502	Kroger's	$ 5,000.00	Rehab Water Supplies
49	110	42220	53225	110-42220-53225	E	Fire Operations	Medical Supplies	9084	Boundtree Medical Supplies	$ 20,000.00	Medical Supplies
50	110	42220	53241	110-42220-53241	E	Fire Operations	Janitorial Supplies	9091	Allied Bearing & Supply	$ 12,000.00	Station papergoods, cleaning supplies etc.
51	110	42220	53261	110-42220-53261	E	Fire Operations	Clothing	11481	Blue Link Uniforms	$ 11,000.00	Initial Uniforms for New Hires
52	110	42220	53261	110-42220-53261	E	Fire Operations	Clothing	8188	Summit Uniforms	$ 1,500.00	Class A uniforms
53	110	42220	53265	110-42220-53265	E	Fire Operations	Turn Out Gear	10049	Witmer Public Safety Group, Inc. dba The Fire Store	$ 7,000.00	Helmets and other PPE
54	110	42220	53265	110-42220-53265	E	Fire Operations	Turn Out Gear	10041	Fireline Shields	$ 1,500.00	Helmet Shields
55	110	42220	53311	110-42220-53311	E	Fire Operations	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Fuel	$ 35,000.00	Fuel for Fire Apparatus and Support Vehicles
56	110	42220	53411	110-42220-53411	E	Fire Operations	Consumables for Tools	1987	Home Depot	$ 1,000.00	Consumable tool parts
57	110	42230	52342	110-42230-52342	E	Fire Training	Reference Materials	1397	Embleholics Challenge Coins	$ 600.00	PR Materials - Training Division
58	110	43100	53261	110-43100-53261	E	Public Works Administration	Clothing	6054	Impressions	$ 2,000.00	Clothing
59	110	43100	53311	110-43100-53311	E	Public Works Administration	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star	$ 3,000.00	Fuel
60	110	43110	52412	110-43110-52412	E	Streets	Street Lighting (Electric and Maintenance)	9571	Middle Tn Electric	$ 15,000.00	Street Lighting Maint
61	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	6394	SRM	$ 5,000.00	Street and Maint Repairs
62	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	2432	IMI	$ 5,000.00	Street and Maint Repairs
63	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	9131	Volunteer Paving	$ 35,000.00	Asphalt Roadway Repairs
64	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	1135	Vulcan	$ 25,000.00	Roadway Repairs
65	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	2772	Rogers Group	$ 25,000.00	Roadway Repairs
66	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	6633	Volunteer Materials	$ 15,000.00	Street and Maint Repairs
67	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	2493	Kerr Brothers	$ 25,000.00	Road Striping
68	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	2626	Home Depot	$ 1,500.00	Repairs and Maint Streets
69	110	43110	52681	110-43110-52681	E	Streets	Repair and Maintenance Roads and Streets	1987	Lowes	$ 1,500.00	Repairs and Maint Streets
70	110	43110	53222	110-43110-53222	E	Streets	Chemical Supplies	9550	United Farmer Coop	$ 2,000.00	Chemicals
71	110	43110	53261	110-43110-53261	E	Streets	Clothing	6054	Impressions	$ 8,000.00	Uniforms
72	110	43110	53261	110-43110-53261	E	Streets	Clothing	1706	Frenchs	$ 2,500.00	Boot Allowance
73	110	43110	53261	110-43110-53261	E	Streets	Clothing	9550	United Farmer Coop	$ 2,500.00	Boot Allowance
74	110	43110	53261	110-43110-53261	E	Streets	Clothing	1040	Cintas	$ 5,600.00	Uniforms
75	110	43110	53311	110-43110-53311	E	Streets	Gas, Oil, Diesel Fuel, Grease, Etc.	670	Barber Oil	$ 6,500.00	Fuel
76	110	43110	53311	110-43110-53311	E	Streets	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy LLC Pacific Pride	$ 56,000.00	Fuel
77	110	43110	53412	110-43110-53412	E	Streets	Hand Tools	31	Ace Hardware	$ 1,500.00	Consumables
78	110	43110	53441	110-43110-53441	E	Streets	Safety Supplies	10347	Safety Products	$ 4,000.00	Safety Supplies

Blanket Purchase Orders - FY2026

No.	Fund	Division	Object	GL	R/E	Division Description	Object Description	Vendor Number	Vendor Name	PO Amount	Notes
79	110	43110	54119	110-43110-54119	E	Streets	Other Building Supplies	2626	Home Depot	$ 1,000.00	Misc Maint Items
80	110	43110	54119	110-43110-54119	E	Streets	Other Building Supplies	1987	Lowes	$ 1,000.00	Misc Maint Items
81	110	43110	54221	110-43110-54221	E	Streets	Guardrails	8603	Sentinel	$ 50,000.00	Guard Rails
82	110	43110	54226	110-43110-54226	E	Streets	Pedestrian Safety	11192	Ram Tool and Supply/White Capp	$ 5,000.00	ADA Supplies
83	110	43110	54521	110-43110-54521	E	Streets	Gravel & Sand	6633	Volunteer Materials	$ 10,000.00	Rock for Road Projects
84	110	43110	54522	110-43110-54522	E	Streets	Concrete	6394	SRM	$ 2,500.00	Concrete Repairs
85	110	43110	54522	110-43110-54522	E	Streets	Concrete	2342	IMI	$ 2,500.00	Concrete Repairs
86	110	43120	53261	110-43120-53261	E	Traffic	Clothing	6054	Impressions	$ 2,200.00	Uniforms
87	110	43120	53261	110-43120-53261	E	Traffic	Clothing	1040	Cintas	$ 1,200.00	Uniforms
88	110	43120	53311	110-43120-53311	E	Traffic	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy	$ 6,000.00	Fuel
89	110	43120	53441	110-43120-53441	E	Traffic	Safety Supplies	10347	Safety Products	$ 1,500.00	Safety Supplies
90	110	43120	54222	110-43120-54222	E	Traffic	Street Signs and Posts	1754	G & C Supply	$ 25,000.00	material for street signs
91	110	43120	54222	110-43120-54222	E	Traffic	Street Signs and Posts	4407	Swarco	$ 7,000.00	Thermoplastic
92	110	43120	54232	110-43120-54232	E	Traffic	Signals	10517	Miovisions	$ 10,000.00	traffic counts for miovision scout device
93	110	43120	54232	110-43120-54232	E	Traffic	Signals	4006	S & W contracting	$ 25,000.00	Loop Repairs
94	110	43120	54232	110-43120-54232	E	Traffic	Signals	6955	Transportation Control Systems	$ 50,000.00	hardware for intersections/mccain controllers
95	110	43120	54232	110-43120-54232	E	Traffic	Signals	11202	Traffic Signal LLC	$ 6,000.00	Radar Detection Devices for Intersections
96	110	43120	54233	110-43120-54233	E	Traffic	Traffic Operating Supplies	4876	Temple Inc	$ 18,000.00	Back Plates, Etc Signals
97	110	43120	54233	110-43120-54233	E	Traffic	Traffic Operating Supplies	10657	Wavetronix	$ 8,000.00	Signal Wire
98	110	43170	52611	110-43170-52611	E	Fleet	Repairs and Maintenance Motor Vehicles	3612	Parks Motor Sales	$ 10,000.00	Vehicle Parts and Repairs
99	110	43170	52611	110-43170-52611	E	Fleet	Repairs and Maintenance Motor Vehicles	9781	Franklin Dodge	$ 10,000.00	Vehicle Parts and Repairs
100	110	43170	52621	110-43170-52621	E	Fleet	Repairs and Maintenance Machinery and Equipment	5426	Kimball Midwest	$ 9,500.00	Equipment parts and repairs
101	110	43170	52621	110-43170-52621	E	Fleet	Repairs and Maintenance Machinery and Equipment	9509	Velocity	$ 25,000.00	Equipment Parts and Repairs
102	110	43170	52621	110-43170-52621	E	Fleet	Repairs and Maintenance Machinery and Equipment	1141	CMI	$ 25,000.00	Equipment Parts and Repairs
103	110	43170	53261	110-43170-53261	E	Fleet	Clothing	6054	Impressions	$ 1,500.00	Uniforms
104	110	43170	53261	110-43170-53261	E	Fleet	Clothing	1040	Cintas	$ 1,500.00	Uniforms
105	110	43170	53311	110-43170-53311	E	Fleet	Gas, Oil, Diesel Fuel, Grease, Etc.	670	Barber Oil	$ 9,500.00	Fuel
106	110	43170	53311	110-43170-53311	E	Fleet	Gas, Oil, Diesel Fuel, Grease, Etc.	5927	Mighty Auto Parts	$ 5,000.00	Oil
107	110	43170	53311	110-43170-53311	E	Fleet	Gas, Oil, Diesel Fuel, Grease, Etc.	9198	Quality Parts Express - Napa	$ 5,000.00	Oil
108	110	43170	53321	110-43170-53321	E	Fleet	Vehicle Parts and Repairs	6220	O'Reillys	$ 50,000.00	Vehicle Parts and Repairs
109	110	43170	53321	110-43170-53321	E	Fleet	Vehicle Parts and Repairs	60709	Ken Smith Auto	$ 25,000.00	Vehicle Parts and Repairs
110	110	43170	53321	110-43170-53321	E	Fleet	Vehicle Parts and Repairs	5927	Mighty Auto Parts	$ 25,000.00	Vehicle Parts and Repairs
111	110	43170	53321	110-43170-53321	E	Fleet	Vehicle Parts and Repairs	9198	Quality Parts Express - Napa	$ 12,000.00	Vehicle Parts and Repairs
112	110	43170	53341	110-43170-53341	E	Fleet	Tires, Tubes and Etc.	3130	Moodys	$ 35,000.00	Tires
113	110	43170	53341	110-43170-53341	E	Fleet	Tires, Tubes and Etc.	10122	SST/Best One	$ 30,000.00	Tires
114	110	44700	52651	110-44700-52651	E	Parks Maintenance	Repairs & Maintenance Grounds & Ground Improvement	9402	Site One	$ 6,000.00	Repair & Maint Grounds
115	110	44700	52651	110-44700-52651	E	Parks Maintenance	Repairs & Maintenance Grounds & Ground Improvement	2626	Lowes	$ 8,000.00	Repair & Maint Grounds
116	110	44700	52651	110-44700-52651	E	Parks Maintenance	Repairs & Maintenance Grounds & Ground Improvement	1987	Home Depot	$ 8,000.00	Repair & Maint Grounds
117	110	44700	53222	110-44700-53222	E	Parks Maintenance	Chemical Supplies	9402	Site One	$ 6,000.00	Chemicals
118	110	44700	53241	110-44700-53241	E	Parks Maintenance	Janitorial Supplies	199	A-Z Office	$ 5,000.00	Janitorial Supplies
119	110	44700	53261	110-44700-53261	E	Parks Maintenance	Clothing	6054	Impressions	$ 2,500.00	Uniforms
120	110	44700	53261	110-44700-53261	E	Parks Maintenance	Clothing	1040	Cintas	$ 1,700.00	Uniforms
121	110	44700	53261	110-44700-53261	E	Parks Maintenance	Clothing	1127	United Farmers Coop	$ 1,800.00	Boots
122	110	44700	53311	110-44700-53311	E	Parks Maintenance	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri Star	$ 12,000.00	Fuel
123	110	44700	54112	110-44700-54112	E	Parks Maintenance	Park Operating Supplies	2626	Lowes	$ 5,000.00	Parks Operating Supplies
124	110	44700	54112	110-44700-54112	E	Parks Maintenance	Park Operating Supplies	1987	Home Depot	$ 5,000.00	Parks Operating Supplies
125	110	44700	54543	110-44700-54543	E	Parks Maintenance	Seed & Fertilizer	9402	Site One	$ 8,000.00	Seed & Fertilizer
126	110	44800	53611	110-44800-53611	E	Library	Audio	2347	Ingram	$ 2,000.00	audio CDs

Blanket Purchase Orders - FY2026

No.	Fund	Division	Object	GL	R/E	Division Description	Object Description	Vendor Number	Vendor Name	PO Amount	Notes
127	110	44800	53611	110-44800-53611	E	Library	Audio	10193	Playaway Products	$ 2,000.00	mp3 audio kits
128	110	44800	53611	110-44800-53611	E	Library	Audio	11480	Blackstone Publishing	$ 2,000.00	audio CDs and mp3 audio kits
129	110	44800	53613	110-44800-53613	E	Library	Electronic Media	6097	Midwest Tape	$ 25,000.00	hoopla
130	110	44800	53613	110-44800-53613	E	Library	Electronic Media	3388	Overdrive	$ 6,000.00	TN READS & Libby
131	110	44800	53623	110-44800-53623	E	Library	Adult Books	2347	Ingram	$ 26,000.00	adult books and processing fees
132	110	44800	53633	110-44800-53633	E	Library	Teen Books	2347	Ingram	$ 4,000.00	teen books and processing fees
133	110	44800	53643	110-44800-53643	E	Library	Children's Books	2347	Ingram	$ 15,000.00	children's books and processing fees
134	110	46100	53261	110-46100-53261	E	Planning	Clothing	6054	Impressions	$ 2,400.00	Clothing
135	110	46100	53261	110-46100-53261	E	Planning	Clothing	9550	United Farm & Home Co-Op	$ 300.00	Clothing
136	110	46100	53311	110-46100-53311	E	Planning	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy Llc Pacific Pride	$ 600.00	Gas, Oil, Diesel Fuel, Grease, Etc.
137	110	46200	53261	110-46200-53261	E	Codes	Clothing	6054	Impressions	$ 1,000.00	Clothing
138	110	46200	53261	110-46200-53261	E	Codes	Clothing	9550	United Farm & Home Co-Op	$ 1,000.00	Clothing
139	110	46200	53311	110-46200-53311	E	Codes	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy LLC Pacific Pride	$ 10,000.00	Gas, Oil, Diesel Fuel, Grease, Etc.
140	110	46300	53261	110-46300-53261	E	Engineering	Clothing	6054	Impressions	$ 3,000.00	Clothing
141	110	46300	53261	110-46300-53261	E	Engineering	Clothing	9550	United Farm & Home Co-Op	$ 1,500.00	Clothing
142	110	46300	53311	110-46300-53311	E	Engineering	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy LLC Pacific Pride	$ 20,000.00	Gas, Oil, Diesel Fuel, Grease, Etc.
143	210	43200	52956	210-43200-52956	E	Sanitation	Marshall County Recycling Processing Fees	8961	Marshall County Recycling	$ 140,000.00	Recycling
144	210	43200	52957	210-43200-52957	E	Sanitation	Waste Management Recycling Fees	5082	Waste Management Recycling	$ 1,060,320.00	trash service
145	210	43200	52958	210-43200-52958	E	Sanitation	Waste Management Garbage Fees	5082	Waste Management Garbage	$ 3,200,000.00	trash service
146	210	43200	52991	210-43200-52991	E	Sanitation	Other Contractual Services	8540	United Waste Haulers	$ 64,000.00	Bulky Pickup per load
147	210	43200	53261	210-43200-53261	E	Sanitation	Clothing	6054	Impressions	$ 2,500.00	Uniform
148	210	43200	53261	210-43200-53261	E	Sanitation	Clothing	9550	United Farmers Coop	$ 1,400.00	Uniform
149	210	43200	53261	210-43200-53261	E	Sanitation	Clothing	1040	Cintas	$ 1,500.00	Uniform
150	210	43200	53311	210-43200-53311	E	Sanitation	Gas, Oil, Diesel Fuel, Grease, Etc.	342	Tri-Star Energey	$ 47,000.00	Fuel
151	410	52010	52361	410-52010-52361	E	Utilities Administration	Public Relations	6054	Impressions	$ 3,250.00	Public Education
152	410	52010	52361	410-52010-52361	E	Utilities Administration	Public Relations	1696	4-Imprint	$ 3,250.00	Public Education
153	410	52010	53112	410-52010-53112	E	Utilities Administration	Office Supplies - General	4034	Staples	$ 6,000.00	Office Supplies
154	410	52010	53311	410-52010-53311	E	Utilities Administration	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri Star	$ 9,500.00	Gas, Oil Diesel
155	410	52010	59701	410-52010-59701	E	Utilities Administration	Furniture	719	Columbia Office Supply	$ 6,000.00	Office Furniture
244	410	52050	52111	410-52050-52111	E	Utilities Billing	Postage	9741	Flex Digital	$ 120,000.00	Printing Services
243	410	52050	52202	410-52050-52202	E	Utilities Billing	Printing & Mailing Services - Billing	9741	Flex Digital	$ 50,000.00	Postage Services
156	410	52100	52534	410-52100-52534	E	Water Treatment Plant	Laboratory Services	9371	Waypoint Analytical	$ 8,000.00	Lab Services
157	410	52100	52621	410-52100-52621	E	Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	787	Chemical Feed Systems	$ 7,000.00	Chemical feed pump supplies
158	410	52100	52621	410-52100-52621	E	Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	2626	Lowe's Home Centers INC	$ 7,000.00	Maintenance Supplies
159	410	52100	52621	410-52100-52621	E	Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	1987	Home Depot	$ 5,000.00	Maintenance Supplies
160	410	52100	52621	410-52100-52621	E	Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	122	Ad Pro	$ 6,000.00	Generator Services
161	410	52100	52621	410-52100-52621	E	Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	1954	Harrington Industrial Plastics	$ 2,500.00	Plumbing Supplies
162	410	52100	52621	410-52100-52621	E	Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	10594	Prime Controls, L.P.	$ 10,000.00	Scada Repair Services
163	410	52100	52651	410-52100-52651	E	Water Treatment Plant	Repairs & Maintenance Grounds & Ground Improvement	9550	United Farm & Home Coopperative	$ 2,500.00	Grounds Supplies
164	410	52100	53223	410-52100-53223	E	Water Treatment Plant	Laboratory Supplies	412	USA Blue Book	$ 10,000.00	Lab Supplies
165	410	52100	53223	410-52100-53223	E	Water Treatment Plant	Laboratory Supplies	1265	Duck River Utility Commission	$ 6,000.00	Lab Supplies
166	410	52100	53261	410-52100-53261	E	Water Treatment Plant	Clothing	6054	Impressions	$ 4,000.00	Uniforms
167	410	52100	53261	410-52100-53261	E	Water Treatment Plant	Clothing	9550	United Farm & Home Coopperative	$ 4,000.00	Uniforms
168	410	52100	53311	410-52100-53311	E	Water Treatment Plant	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri Star	$ 14,000.00	Gas, Oil, Diesel
169	410	52100	53311	410-52100-53311	E	Water Treatment Plant	Gas, Oil, Diesel Fuel, Grease, Etc.	690	Columbia Oil	$ 2,436.00	Diesel for Generators
170	410	52100	54601	410-52100-54601	E	Water Treatment Plant	Polymer	2035	Harcross	$ 10,000.00	Polymer - Sole Source
171	410	52100	54604	410-52100-54604	E	Water Treatment Plant	Coagulant	5020	USALCO	$ 180,000.00	Coagulant - Sole Source
172	410	52100	54606	410-52100-54606	E	Water Treatment Plant	Ferric	9304	CITCO Water	$ 30,000.00	Ferric - Sole Source
173	410	52110	52351	410-52110-52351	E	Water Distribution	Memberships	9561	TDOT	$ 1,700.00	RTK Subscriptions
174	410	52110	52351	410-52110-52351	E	Water Distribution	Memberships	138	AWWA Memberships	$ 5,000.00	Membership
175	410	52110	52351	410-52110-52351	E	Water Distribution	Memberships	4680	Tn One Call	$ 11,000.00	811 Locates Membership
176	410	52110	52391	410-52110-52391	E	Water Distribution	Other Publicity, Subscriptions and Dues	476	Bagder Meter	$ 96,000.00	Monthly Cellular Endpoint Meter charg

Blanket Purchase Orders - FY2026

No.	Fund	Division	Object	GL	R/E	Division Description	Object Description	Vendor Number	Vendor Name	PO Amount	Notes
177	410	52110	52549	410-52110-52549	E	Water Distribution	Other Professional Services	4969	United Rentals	$ 4,800.00	Other Contractual Services
178	410	52110	52833	410-52110-52833	E	Water Distribution	Training	4490	TAUD	$ 3,500.00	Training
179	410	52110	52833	410-52110-52833	E	Water Distribution	Training	1668	Fleming Training Center	$ 3,500.00	Training
180	410	52110	53261	410-52110-53261	E	Water Distribution	Clothing	6054	Impressions	$ 2,000.00	Uniforms
181	410	52110	53261	410-52110-53261	E	Water Distribution	Clothing	9550	United Farm & Home Coopperative	$ 8,000.00	Uniforms
182	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	2626	Lowe's Home Centers INC	$ 10,000.00	Maintenance Supplies
183	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	1987	Home Depot	$ 5,000.00	Maintenance Supplies
184	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	9550	United Farm & Home Coopperative	$ 3,000.00	Grounds Supplies
185	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	31	Ace Hardware	$ 3,000.00	Maintenance Supplies
186	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	4238	Southern Pipe and Supply	$ 55,000.00	Maintenance Supplies
187	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	732	Consilidated Pipe and Supply	$ 55,000.00	Maintenance Supplies
188	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	1754	G & C Supply	$ 55,000.00	Maintenance Supplies
189	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	6633	Materials	$ 3,500.00	Rock
190	410	52110	53291	410-52110-53291	E	Water Distribution	Other Operating Supplies	5772	Rogers Group	$ 5,000.00	Street Repair As Needed
191	410	52110	53311	410-52110-53311	E	Water Distribution	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy LLC Pacific Pride	$ 45,000.00	Gas, Oil, Diesel
192	410	52110	53311	410-52110-53311	E	Water Distribution	Gas, Oil, Diesel Fuel, Grease, Etc.	670	Barber Oil	$ 2,500.00	Fuel for Equp
193	410	52110	53441	410-52110-53441	E	Water Distribution	Safety Supplies	1754	G & C Supply	$ 8,000.00	Safety Supplies
194	410	52110	53541	410-52110-53541	E	Water Distribution	Water Meters for Resale	476	Badger Meter (National Meter)	$ 385,000.00	Meters for new const - Sole Source
195	410	52110	54251	410-52110-54251	E	Water Distribution	Water Meters	476	Badger Meter (National Meter)	$ 685,000.00	Meters for replacement - Sole Source
196	410	52110	54253	410-52110-54253	E	Water Distribution	Fire Hydrants	4238	Southern Pipe and Supply	$ 15,000.00	Fire Hydrant Supplies
197	410	52110	54253	410-52110-54253	E	Water Distribution	Fire Hydrants	732	Consilidated Pipe and Supply	$ 15,000.00	Fire Hydrant Supplies
198	410	52110	54253	410-52110-54253	E	Water Distribution	Fire Hydrants	1754	G & C Supply	$ 15,000.00	Fire Hydrant Supplies
199	410	52110	55655	410-52110-55655	E	Water Distribution	Tennessee State Fees	9816	State of TN Dept of Environment & Conservation	$ 35,000.00	State fees
200	410	52210	52534	410-52210-52534	E	Waste Water Treatment Plant	Laboratory Services	9371	Waypoint Analytical, LLC	$ 10,000.00	Lab Services
201	410	52210	52549	410-52210-52549	E	Waste Water Treatment Plant	Other Professional Services	8507	Preventia Security LLC	$ 3,500.00	Cameras
202	410	52210	52621	410-52210-52621	E	Waste Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	6625	J & T Services	$ 8,000.00	Crane Rental
203	410	52210	52621	410-52210-52621	E	Waste Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	2626	Lowe's Home Centers INC	$ 7,000.00	Maintenance Supplies
204	410	52210	52621	410-52210-52621	E	Waste Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	3250	Nedrow & Associates	$ 25,000.00	Mechanical Repair - Sole Source
205	410	52210	52621	410-52210-52621	E	Waste Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	928	Cumberland Machine	$ 25,000.00	Repair
206	410	52210	52621	410-52210-52621	E	Waste Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	10594	Prime Controls, L.P.	$ 25,000.00	Scada Repair
207	410	52210	52621	410-52210-52621	E	Waste Water Treatment Plant	Repairs and Maintenance Machinery and Equipment	182	Advanced Proffesional Generator SVC.	$ 4,000.00	Generator PM
208	410	52210	52959	410-52210-52959	E	Waste Water Treatment Plant	Sludge Removal	9271	Waste Management	$ 720,000.00	Sludge and Grit Removal
209	410	52210	53223	410-52210-53223	E	Waste Water Treatment Plant	Laboratory Supplies	4958	Evoqua Water Technologies Corp.	$ 4,400.00	Ionized Water Tanks
210	410	52210	53261	410-52210-53261	E	Waste Water Treatment Plant	Clothing	9550	United Farm & Home Coopperative	$ 4,000.00	Pants and Boots
211	410	52210	53291	410-52210-53291	E	Waste Water Treatment Plant	Other Operating Supplies	1265	Duck River Utility Commission	$ 5,000.00	Lab Supplies
212	410	52210	53291	410-52210-53291	E	Waste Water Treatment Plant	Other Operating Supplies	412	USA Blue Book	$ 12,000.00	Lab Supplies
213	410	52210	53291	410-52210-53291	E	Waste Water Treatment Plant	Other Operating Supplies	543	Brookmeade Hardware and Supply	$ 1,800.00	Cleaning Supplies
214	410	52210	53311	410-52210-53311	E	Waste Water Treatment Plant	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy LLC Pacific Pride	$ 5,500.00	Gas, Oil Diesel

Blanket Purchase Orders - FY2026

No.	Fund	Division	Object	GL	R/E	Division Description	Object Description	Vendor Number	Vendor Name	PO Amount	Notes
215	410	52210	53391	410-52210-53391	E	Waste Water Treatment Plant	Other Repair and Maintenance Supplies	4610	Trans Electric Co., Inc.	$ 25,000.00	Electrical Repair
216	410	52210	55331	410-52210-55331	E	Waste Water Treatment Plant	Machinery and Equipment Rental	8414	Bar Environmental	$ 420,000.00	Press Rental
217	410	52220	52351	410-52220-52351	E	Sewer Collection	Memberships	9561	TDOT	$ 1,700.00	RTK Subscriptions
218	410	52220	52351	410-52220-52351	E	Sewer Collection	Memberships	4680	Tn One Call	$ 11,000.00	811 Locates Membership
219	410	52220	52621	410-52220-52621	E	Sewer Collection	Repairs and Maintenance Machinery and Equipment	4030	Southern Sales Co. Inc	$ 10,000.00	Repair and Maintenance- Machinery
220	410	52220	52691	410-52220-52691	E	Sewer Collection	Repair and Maintenance - Other	4030	Southern Sales Co. Inc	$ 10,000.00	Repair and Maintenance
221	410	52220	53222	410-52220-53222	E	Sewer Collection	Chemical Supplies	3215	Messco	$ 49,000.00	Chemical Supplies
222	410	52220	53261	410-52220-53261	E	Sewer Collection	Clothing	9550	United Farm & Home Cooperative	$ 4,000.00	Uniforms
223	410	52220	53261	410-52220-53261	E	Sewer Collection	Clothing	6054	Impressions	$ 3,000.00	Uniforms
224	410	52220	53291	410-52220-53291	E	Sewer Collection	Other Operating Supplies	2626	Lowe's Home Centers INC	$ 7,000.00	Maintenance Supplies
225	410	52220	53291	410-52220-53291	E	Sewer Collection	Other Operating Supplies	1987	Home Depot	$ 1,500.00	Maintenance Supplies
226	410	52220	53291	410-52220-53291	E	Sewer Collection	Other Operating Supplies	412	USA Blue Book	$ 3,000.00	Maintenance Supplies
227	410	52220	53311	410-52220-53311	E	Sewer Collection	Gas, Oil, Diesel Fuel, Grease, Etc.	670	Barber Oil	$ 2,000.00	Fuel for Equipment
228	410	52220	53391	410-52220-53391	E	Sewer Collection	Other Repair and Maintenance Supplies	732	Consilidated Pipe and Supply	$ 5,000.00	Maintenance Supplies
229	410	52220	53391	410-52220-53391	E	Sewer Collection	Other Repair and Maintenance Supplies	4238	Southern Pipe and Supply	$ 5,000.00	Maintenance Supplies
230	410	52220	53441	410-52220-53441	E	Sewer Collection	Safety Supplies	1754	G & C Supply	$ 7,000.00	Safety Supplies
231	416	43150	52917	416-43150-52917	E	Stormwater	Street Litter Program	1987	Lowes	$ 2,000.00	Street Litter Supplies
232	416	43150	52918	416-43150-52918	E	Stormwater	Street Sweeping	3992	Sweeping Corp of America	$ 110,000.00	Street Sweeping
233	416	43150	53261	416-43150-53261	E	Stormwater	Clothing	9550	United Farmers Coop	$ 1,200.00	Uniforms
234	416	43150	53261	416-43150-53261	E	Stormwater	Clothing	1706	Frenchs	$ 1,000.00	Uniforms
235	416	43150	53261	416-43150-53261	E	Stormwater	Clothing	6054	Impressions	$ 3,800.00	Uniforms
236	416	43150	53261	416-43150-53261	E	Stormwater	Clothing	1040	Cintas	$ 2,000.00	Uniforms
237	416	43150	53311	416-43150-53311	E	Stormwater	Gas, Oil, Diesel Fuel, Grease, Etc.	3482	Tri-Star Energy	$ 19,500.00	Fuel
238	416	43150	53311	416-43150-53311	E	Stormwater	Gas, Oil, Diesel Fuel, Grease, Etc.	670	Barber Oil	$ 8,000.00	Fuel
239	416	43150	53441	416-43150-53441	E	Stormwater	Safety Supplies	10347	Safety Products	$ 1,500.00	Safety Supplies
240	416	43150	54254	416-43150-54254	E	Stormwater	Manhole Inserts	356	John Bouchard	$ 3,500.00	Manhole Inserts
241	416	43150	54521	416-43150-54521	E	Stormwater	Gravel & Sand	6633	Volunteer Materials	$ 2,500.00	Gravel
242	416	43150	54831	416-43150-54831	E	Stormwater	Erosion Control Supplies	10473	Jen Hill	$ 4,000.00	Erosion Control Supplies

Badger Meter

4545 W Brown Deer Road
PO Box 245036
Milwaukee, Wisconsin 53224-9536
414-355-0400 | 800-876-3837
www.badgermeter.com

May 21, 2025

Mr. T.C. Norman
City of Spring Hill
199 Town Center Pkwy
Spring Hill, TN 37174

RE: Sole Source Letter

Dear Mr. Norman:

This letter will confirm that Badger Meter is the sole source provider of E-Series® Ultrasonic Meters, Recordall® Disc Meters, Recordall Compound Series/Combo Meters, Recordall Turbo Series Meters, HR-E® Encoders, HR-E LCD Encoders, BEACON® SaaS, BEACON Mobile Reading Solutions and ORION® Endpoints for the City of Spring Hill.

In the event you have any questions regarding this correspondence, we can be reached by telephone at 800-876-3837 or by email at proposals@badgermeter.com.

Sincerely,

BADGER METER, INC.

Charla D. Dury
Assistant Secretary and Proposal Lead

E-Series® Ultrasonic Meters, Recordall® Disc Meters, Recordall Compound Series/Combo Meters, Recordall Turbo Series Meters, HR-E® Encoders, HR-E LCD Encoders, BEACON® SaaS, BEACON Mobile Reading Solutions and ORION® Endpoints

CITCO WATER

Dear Mr. Jeremy Vanderford

From Chemical Resources:

Per our discussion, the CIT2017 is a proprietary blend specifically packaged for CITCO water.
We do not sell this product to any other parties and will not in the future. This is an exclusive product for CITCO water through Chemical Resources. There have been no changes in the supply chain or exclusivity to CITCO.

Thanks

Hunt McCollum
Regional Director of Operations

Solutions driven. Commitment given.

CitcoWater.com

RE: [External] Sole Source Letter

DH Drew Herzog <dherzog@harcros.com>
To Jeremy Vanderford

Reply | Reply All | Forward | ...
Wed 6/5/2024 4:27 PM

Hi Jeremy:

Thanks for working with Harcros Chemicals to source the cationic polymer that the City of Spring Hill water treatment plant is feeding, Harcros PWT 3140. This material continues to be packaged and labeled exclusively for Harcros Chemicals. Harcros PWT 3140 cannot be sourced elsewhere.

Thanks again, Jeremy. Call me any time to discuss further.

Drew Herzog | Account Manager
Harcros Chemicals Inc.
936 Garvin Lane | Franklin KY | 42134 | USA
P. 615.256.8636 F. 615.244.7014 M. 615.319.0714
www.harcros.com | An Employee Owned Company

Working together, we create a positive impact & enrich the lives of others.

June 5th, 2024

Jeremy Vanderford
City of Spring Hill, TN
4151 Kedron Road
Spring Hill, TN 37174

Re: Delta Floc 812

Dear Jeremy Vanderford,

Per your inquiry, USALCO LLC, is the sole manufacturer of the Polyaluminum Chloride coagulant "Delta Floc 812" to be purchased by the City of Spring Hill, TN. USALCO LLC has three sites where this product is produced: Ashtabula, OH; Fairfield, OH; and Baltimore, MD.

If you require any further information regarding this product, please contact our office.

Sincerely,

Chad Frazier
Regional Sales Manager
USALCO, LLC
423-213-0772
cfrazier@usalco.com

cc: File

2601 Cannery Avenue • Baltimore, MD 21226 • 410-918-2230 • FAX: 410-918-2240

Xylem Water Solutions, USA
Mark Shaw
1012 Riviera Rd, Roanoke, TX 76262
Tel +1.262.227.3763

xylem
Let's Solve Water

September 21, 2023

RE: Spring Hill, TN

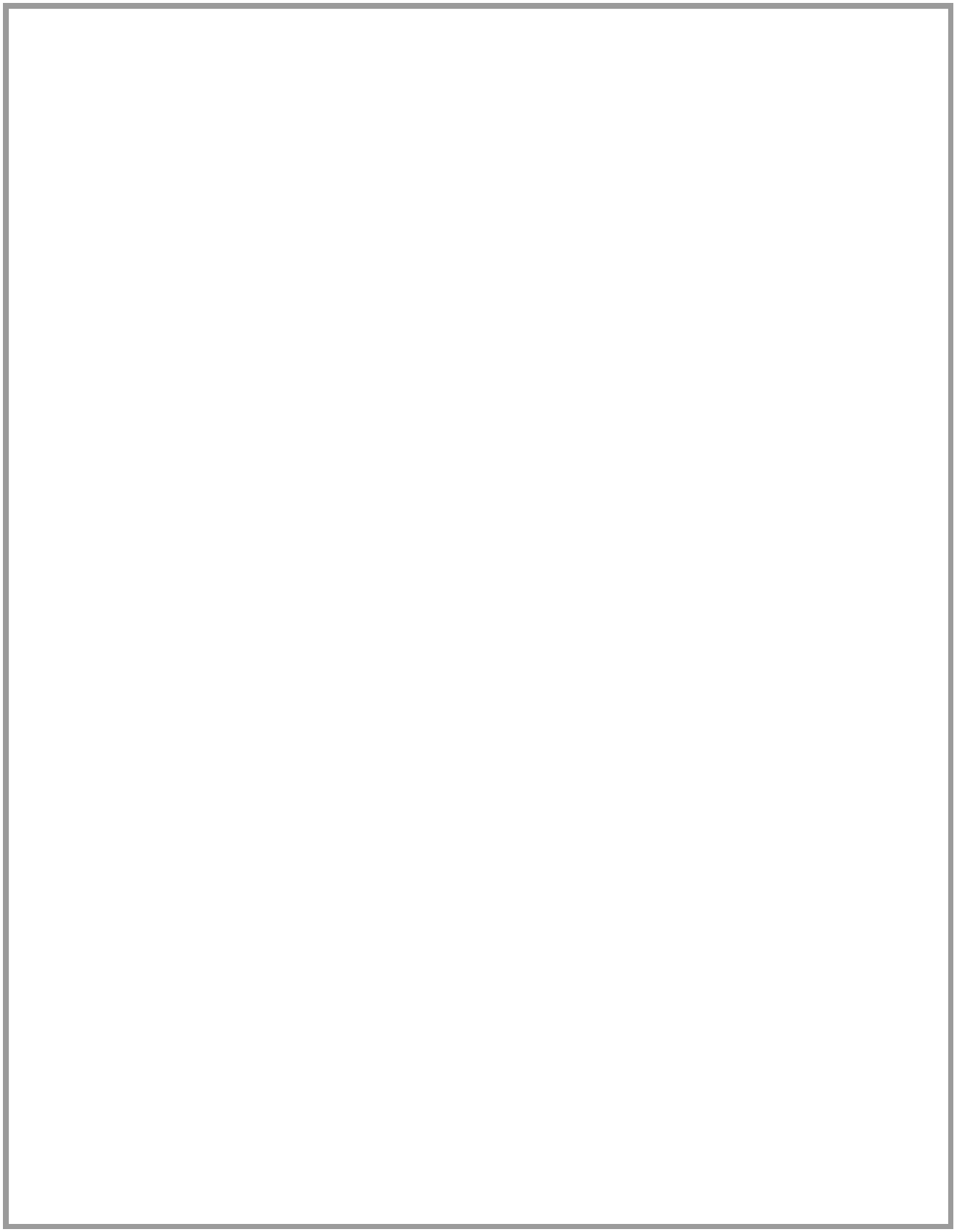
This letter is to confirm that Nedrow and Associates, 2233 Southpark Drive Murfreesboro, TN 37128 is the sole authorized distributor for Flygt pumps and parts a Xylem brand for the State of Tennessee which includes Spring Hill, TN.

Thank you for your interest in Flygt Products and do not hesitate to call me if you have any questions regarding distribution or any other matter.

.

Sincerely,

Mark A Shaw
Xylem Water Solutions USA, Inc.



RESOLUTION 25-166

A RESOLUTION TO AUTHORIZE WATER AND SEWER TASK ORDER AGREEMENTS WITH THOMAS AND HUTTON

WHEREAS, the City is preparing to begin construction of an Advanced Purification PILOT project; and

WHEREAS, Thomas and Hutton have provided a task order to separate the demolition and site preparation tasks for the PILOT project out of the EQ Basin project so that it can be accelerated ahead of the final site design; and

WHEREAS, the project is proposed to be funded with professional services dollars budgeted from the Utility Admin division for FY25-26 and;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Mayor and Aldermen of the City of Spring Hill authorizes the Mayor as follows:

1. To sign and execute Task Order 28298.0064 (B) in the amount of $42,000.00

Passed and adopted by the Board of Mayor and Aldermen of the City of Spring Hill, Tennessee on this 7th day of July, 2025.

_____
Matt Fitterer, Mayor

ATTEST:

_____
April Goad, City Recorder

LEGAL FORM APPROVED:

_____
Patrick Carter, City Attorney

THOMAS & HUTTON

502 HAZELWOOD DRIVE
SMYRNA, TN 37167 | 615-220-5800
WWW.THOMASANDHUTTON.COM

Spring Hill, TN
WWTP Demolition and Grading (in preparation for the EQ Basin and AP projects)
Task Order Contract

Task Order No:	**28298.0064 (B)**
Date:	**06-19-2025**

The Professional Service Agreement - Task Order Contract between the City of Spring Hill and Thomas & Hutton for General Professional Engineering Consultant Services for completion of the design and bidding of the WWTP demolition and grading work in preparation of the Proposed Headworks and EQ Basin and Advanced Purification Pilot. The Professional Services Agreement is hereby amended to include the following Task Order:

Task Description:	Prepare engineering construction plans and bid documents (plans and specifications) for submittal to TDEC for approval and bidding services.
Contact:	Dan Allen, P.E., Assistant City Administrator
Scope of Services:	Engineering Design and Bidding Services Engineering services will be provided for design and development of construction plans bid documents (plans and specifications), consisting of demolition and removal of concrete structures that are no longer utilized for the plant process and grading work, all in preparation for the Proposed Headworks and EQ Basin project and the Advanced Purification (AP) pilot facility. Engineering Design and Bidding Services will include: • Demolition Plan • Grading Plan Site Design based on revised location of EQ Basin and proposed AP pilot facility, including demolition plan and erosion control plan. • Update Headworks and EQ Basin plan set to reflect this project being completed first. • Construction and Bidding Documents development, • Bidding Assistance during advertisement, including review of bids received and recommendation of award. As part of Thomas & Hutton's above referenced efforts, the following tasks and engineering services will be provided: 1. Civil Engineering Design, , 2. Plans and Specifications Development, 3. Submittal to TDEC, 4. Opinion of Probable Construction Cost, 5. Bidding Assistance. EXCLUSIONS: Opinion of Probable Construction Cost will be based on similar projects of scope and size with similar components. Construction costs will be based on current market values and pricing. Due to recent price escalations in materials and labor, a contingency value will be included.
Deliverables:	1. Bidding Documents (Plans and Specifications)

Engineering Fee:	Lump Sum	$42,000.00
Additional Services	Time & Expense	See Consulting Services Rate Sheet
Total Task Order Amount:	$ 42,000.00	

This Agreement hereby amends the above referenced Professional Services Agreement between Thomas & Hutton and the City of Spring Hill and supersedes all prior written or oral understandings. This Agreement of Services may only be amended, supplemented, modified, or cancelled by a duly executed written instrument. IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement as of the day written below,

Client:	**CITY OF SPRING HILL**	Engineer:	**THOMAS & HUTTON**
Signed:		Signed:	Ryan Chamblee
Name:		Name:	Ryan Chamblee, P.E.
Title:		Title:	Group Leader/Project Manager
Date:		Date:	6/19/2025

REQUEST: ***Proposed striping at Buckner Lane/June Lake Blvd intersection***

SUBMITTED TO: **Board of Mayor and Aldermen**

SUBMITTED BY: **Missy Stahl, CIP Director**
Tyler Scroggins, Public Works Director

DATE: **July 7, 2025**

BACKGROUND:

A complete final striping plan was not included in the original design for the intersection of Buckner Lane and June Lake Boulevard. (The intersection was part of a private developer's construction plans.) The City subsequently requested JMT, under the City's on-call engineering contract, to complete an intersection analysis and provide a recommended striping plan.

JMT conducted traffic counts during peak hours and evaluated both existing conditions and future, approved developments. Their recommendations are detailed on pages 9 and 10 of Exhibit A attached to this memo.

However, due to the current condition of Buckner Road, the recommended 5-lane striping configuration cannot be implemented at this time. There is a significant slope on the north side of the roadway, as well as an 60+" underground storm pipe that must be relocated prior to the installation of the full striping plan. Full construction plans will need to be developed for this work.

In the interim, staff recommends leaving it as a 3-lane for now – one dedicated eastbound left turn lane, one combined eastbound straight/right turn lane and one westbound travel lane. Additionally, only southbound left turn lane (turning west onto Buckner Road from Buckner Lane) would be needed as part of the 3-lane design. JMT has confirmed that this interim configuration will be sufficient for approximately two years, based on the traffic analysis.

Jones Bros. (the construction contractor for Buckner Lane widening – north segment) is currently responsible for installing the final asphalt and striping for north segment. If this configuration is approved, City staff will direct the engineers to include this revised striping layout as a change order to the existing construction plans.

This was presented and favorably recommended by the TAC on June 16, 2025.

STAFF REQUESTS:

1. Approval from BOMA of the intersection analysis and authorization to add the proposed layout to Buckner Lane widening construction plans with a change order to Jones Bros. contract for installation.

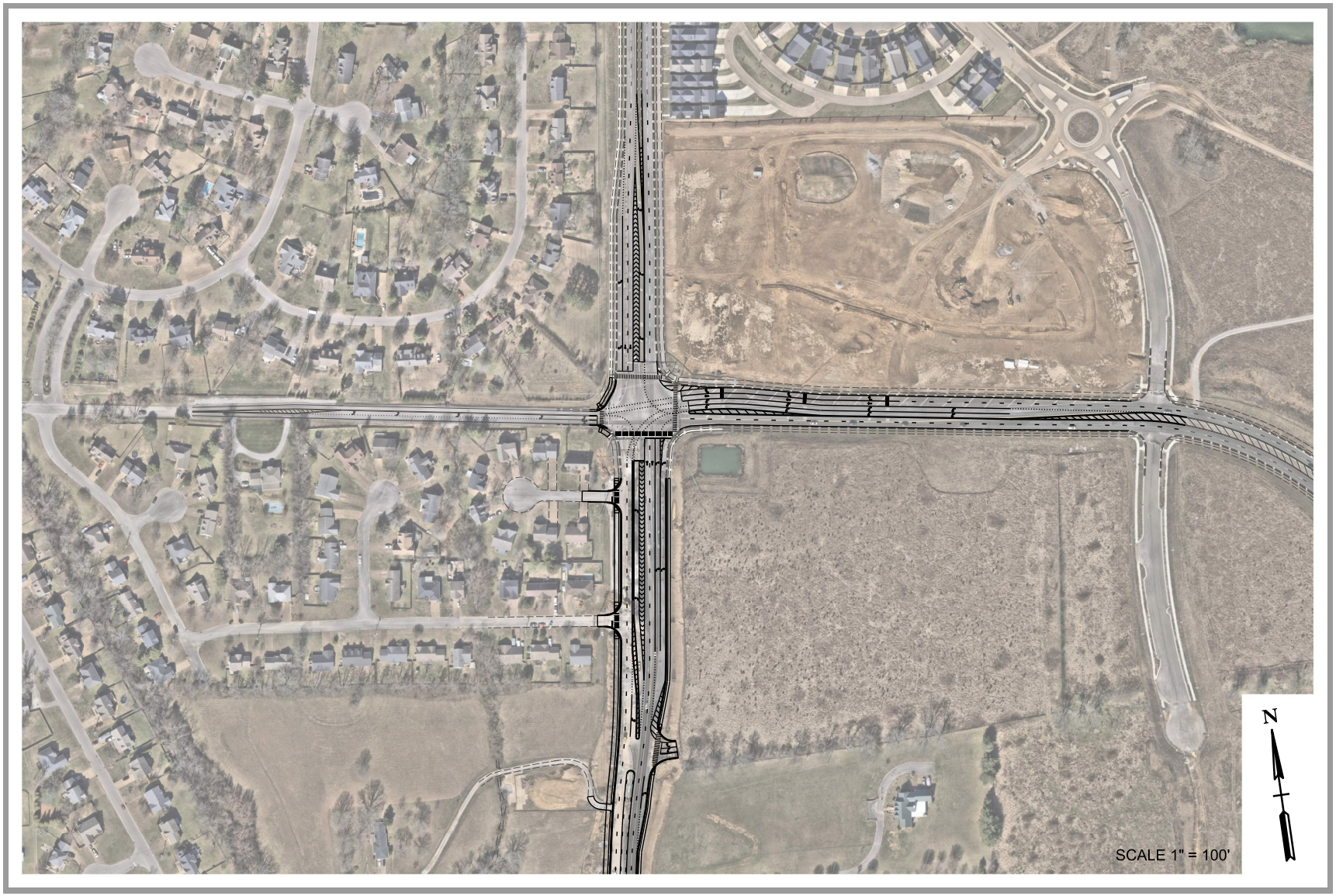

N
SCALE 1" = 100'

Exhibit A

MEMORANDUM

TO: Missy Stahl, City of Spring Hill
DATE: Wednesday, May 21, 2025
FROM: JMT
RE: Intersection Analysis of June Lake Boulevard/Buckner Road and Buckner Lane, Spring Hill, TN

Subject and Purpose

This memorandum provides the findings of the analysis for the intersection of June Lake Boulevard/Buckner Road and Buckner Lane. The purpose of this analysis is to assess the traffic impacts associated with June Lake Mixed-Use Development in Thompson's Station, Tennessee. The June Lake Mixed-Use Development is located to the west of Interstate 65 between Thompson's Station Road East and Spring Hill Station Drive. The June Lake Mixed-Use Development will be completed in phases over a 20-year period. Capacity analyses were conducted for existing and a five-year horizon to determine the intersection capacity and laneage required to maintain acceptable levels of service. It should be noted that the study intersection is currently under construction and the laneage for the existing conditions was modeled using the most current pavement markings.

Existing Conditions

A description of the roadways for the study intersection is as follows:

June Lake Boulevard is a four-lane roadway that generally travels in an east-west direction with two travel lanes in each direction. According to the City of Spring Hill's *2040 Major Thoroughfare Plan,* June Lake Boulevard is categorized as an arterial roadway. The posted speed limit on June Lake Boulevard is 40 mph near the study intersection. A multi-use path was present on the north side and sidewalk was present on the south side of June Lake Boulevard. Paved shoulders were present on June Lake Boulevard.

Westbound on June Lake Boulevard, East of Buckner Lane

Buckner Road is a two-lane roadway that generally travels in an east-west direction with one lane of travel in each direction. According to the City of Spring Hill's *2040 Major Thoroughfare Plan,* Buckner Road is categorized as an arterial roadway. The posted speed limit on Buckner Road is 30 mph near the study intersection. In the vicinity of the study intersection, sidewalks are not provided on either side of Buckner Road. In general, paved shoulders are not provided on Buckner Road.

Eastbound on Buckner Road, West of Buckner Lane

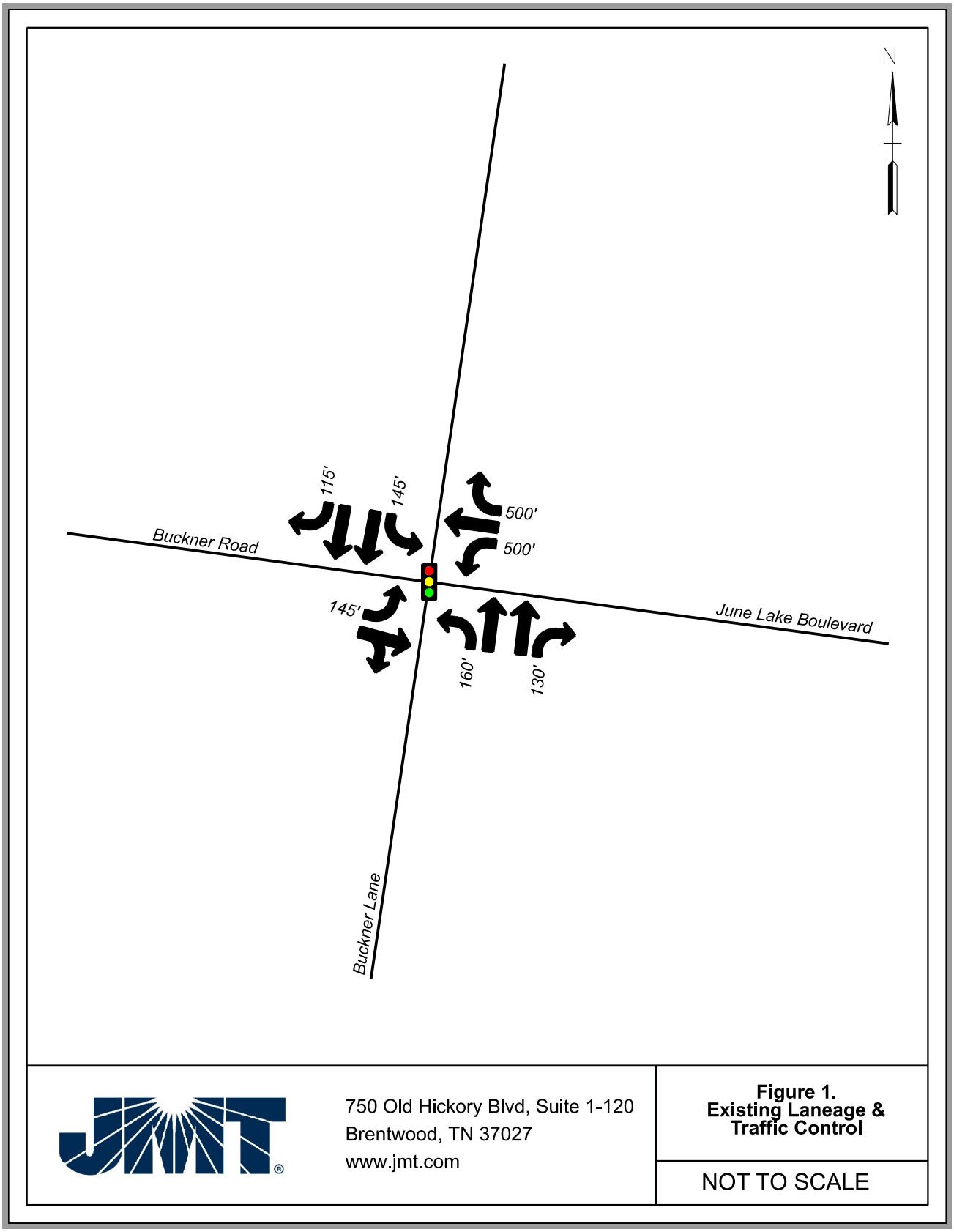
Buckner Lane is a four-lane roadway to the north of the intersection of June Lake Boulevard/Buckner Road and Buckner Lane and a two-way roadway to the south of the intersection that generally travels in a north-south direction. It should be noted that Buckner Lane south of the intersection is under construction to widen Buckner Lane. According to the City of Spring Hill's *2040 Major Thoroughfare Plan,* Buckner Lane is categorized as an arterial roadway. The posted speed limit on Buckner Lane is 35 mph near the study intersection. To the north of the intersection a multi-use path is present on the east side of Buckner Lane and sidewalk is present on the west side of Buckner Lane. Near the vicinity of the study intersection paved shoulders are provided on Buckner Lane.

Northbound on Buckner Lane, East of Buckner Road

June Lake Boulevard/Buckner Road and Buckner Lane is a signalized intersection with four approaches. The northbound approach of Buckner Lane includes a left-turn lane, dual through lanes, and a right-turn lane. The southbound approach of Buckner Lane includes a left-turn lane, dual through lanes, and a right-turn lane. The eastbound approach of Buckner Road includes a left-turn lane and a shared through/right lane. The westbound approach of June Lake Boulevard includes a left-turn lane, a through lane, and a right-turn lane. Pedestrian crosswalks and buttons are present on all legs except for Buckner Road.

Western leg, June Lake Boulevard, looking east at the intersection of June Lake Boulevard/Buckner Road and Buckner Lane

The laneage and traffic control for the study intersection is further illustrated in Figure 1.



750 Old Hickory Blvd, Suite 1-120
Brentwood, TN 37027
www.jmt.com

Figure 1.
Existing Laneage & Traffic Control

NOT TO SCALE

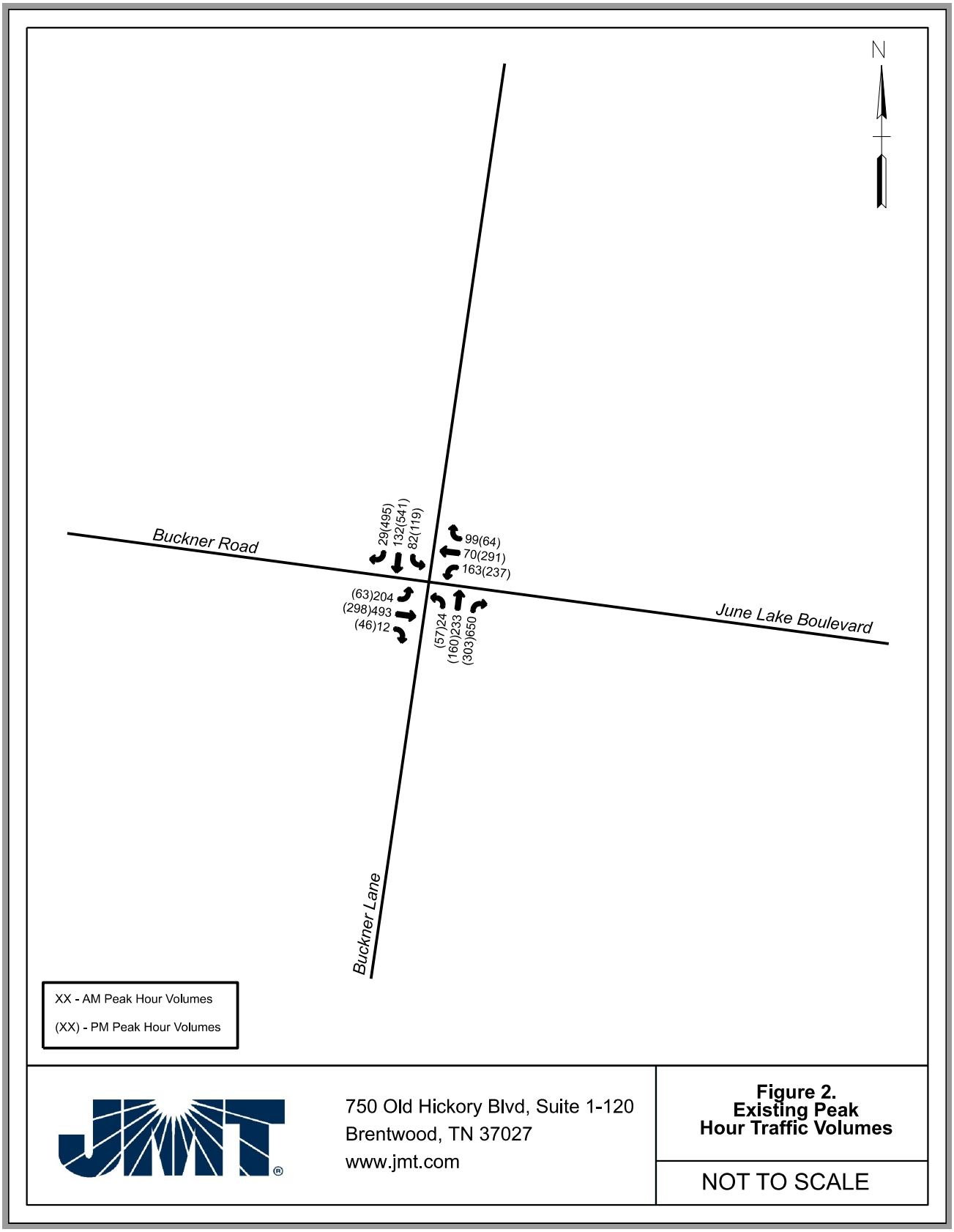
Existing Analysis

To provide data for the intersection of June Lake Boulevard/Buckner Road and Buckner Lane, manual traffic counts were conducted. Specifically, the traffic counts were collected on April 22-24, 2025, from 6:00 am – 9:00 am and 2:00 pm – 6:00 pm. From the counts, the AM and PM peak hours of traffic flow were determined to be Tuesday from 6:30 - 7:30 am and Wednesday from 4:15 – 5:15 pm and are shown in Figure 2. The existing count data is included in Appendix A.

To determine the current operation of the study intersection, capacity analyses were performed for the existing traffic volumes for AM and PM peak hours. The capacity calculations were performed according to the methods outlines in the *Highway Capacity Manual 7th Edition* using Synchro 12 software. The results of the capacity analyses for the existing conditions at the study intersection are presented in Table 1. Capacity analyses worksheets are included in Appendix B.

Table 1. Existing Peak Hour LOS

Intersection	Critical Movement	LEVEL OF SERVICE			
		AM Peak Hour	Delay (sec/veh)	PM Peak Hour	Delay (sec/veh)
June Lake Blvd/Buckner Rd and Buckner Ln	Overall Intersection	E	62.5	D	42.3


N
Buckner Road
June Lake Boulevard
Buckner Lane
29(495)
132(541)
82(119)
99(64)
70(291)
163(237)
(63)204
(298)493
(46)12
(57)24
(160)233
(303)650
XX - AM Peak Hour Volumes
(XX) - PM Peak Hour Volumes
750 Old Hickory Blvd, Suite 1-120
Brentwood, TN 37027
www.jmt.com
Figure 2.
Existing Peak
Hour Traffic Volumes
NOT TO SCALE

Background Traffic Growth

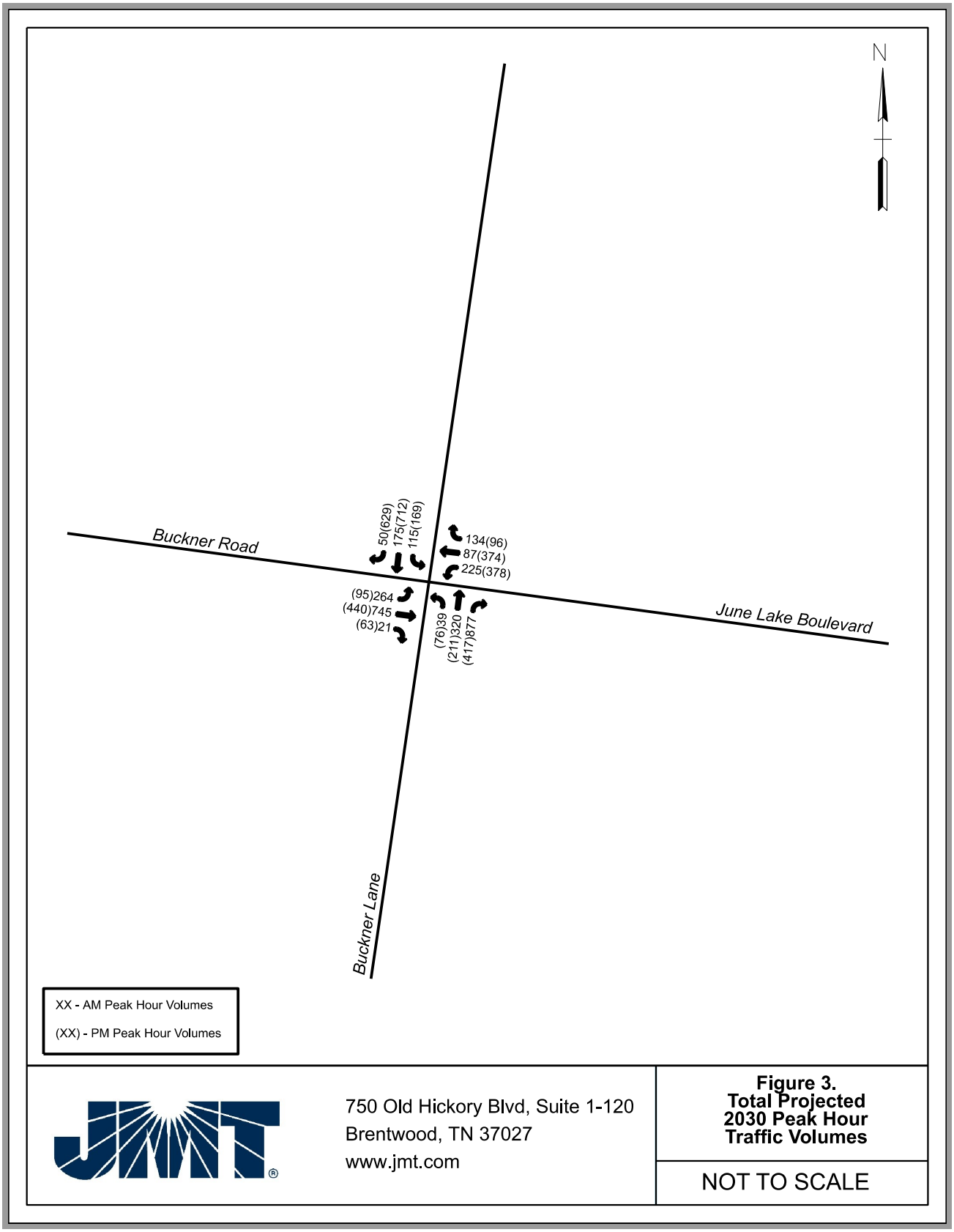
In order to account for the traffic growth within the next five years, existing traffic counts were grown. For the purposes of this memo, a five-year horizon from the 2025 traffic volumes was utilized for this analysis. Historical daily traffic volumes were obtained from the TDOT count stations located near the project site. For the past five years, the traffic at the TDOT count stations has increased by approximately 4.1% per year. Based on the count stations in the area and recent growth trends, a 4.5% annual growth rate was used. The TDOT count station data is included in Appendix C.

For the purpose of this memo, it was assumed that 20% of the June Lake development would be completed by the 2030 horizon year. The directional distribution of traffic generated by the development was assumed to be the same as the RPM Traffic Impact Study that was completed in 2016, included in Appendix D. Based on this directional distribution, the new traffic was assigned to the roadway network by taking 20% of the original studies trip generation.

Projected counts were established by growing the existing traffic counts by 4.5% for five years and adding the new site-generated traffic volumes. Figure 3 presents the total projected AM and PM peak hour traffic volumes. Capacity analyses were performed in order to determine the intersection laneage necessary to accommodate 5-year traffic volumes.. These capacity analyses were also used to assess the need for roadway and traffic control improvements. Due to the volume of traffic during the projected peak hours, the laneage and signal timing were evaluated to determine the optimum LOS while conserving roadway width and right-of-way needs. The results of the capacity analyses are shown in Table 2. Capacity analyses worksheets are included in Appendix B.

Table 2. 2030 Peak Hour LOS

Intersection	Critical Movement	LEVEL OF SERVICE			
		AM Peak Hour	Delay (sec/veh)	PM Peak Hour	Delay (sec/veh)
June Lake Blvd/Buckner Rd and Buckner Ln (Existing Laneage and Traffic Control)	Overall Intersection	E	62.5	D	42.3
June Lake Blvd/Buckner Rd and Buckner Ln (Improved)	Overall Intersection	D	53.8	D	46.1



750 Old Hickory Blvd, Suite 1-120
Brentwood, TN 37027
www.jmt.com

Figure 3.
Total Projected
2030 Peak Hour
Traffic Volumes

NOT TO SCALE

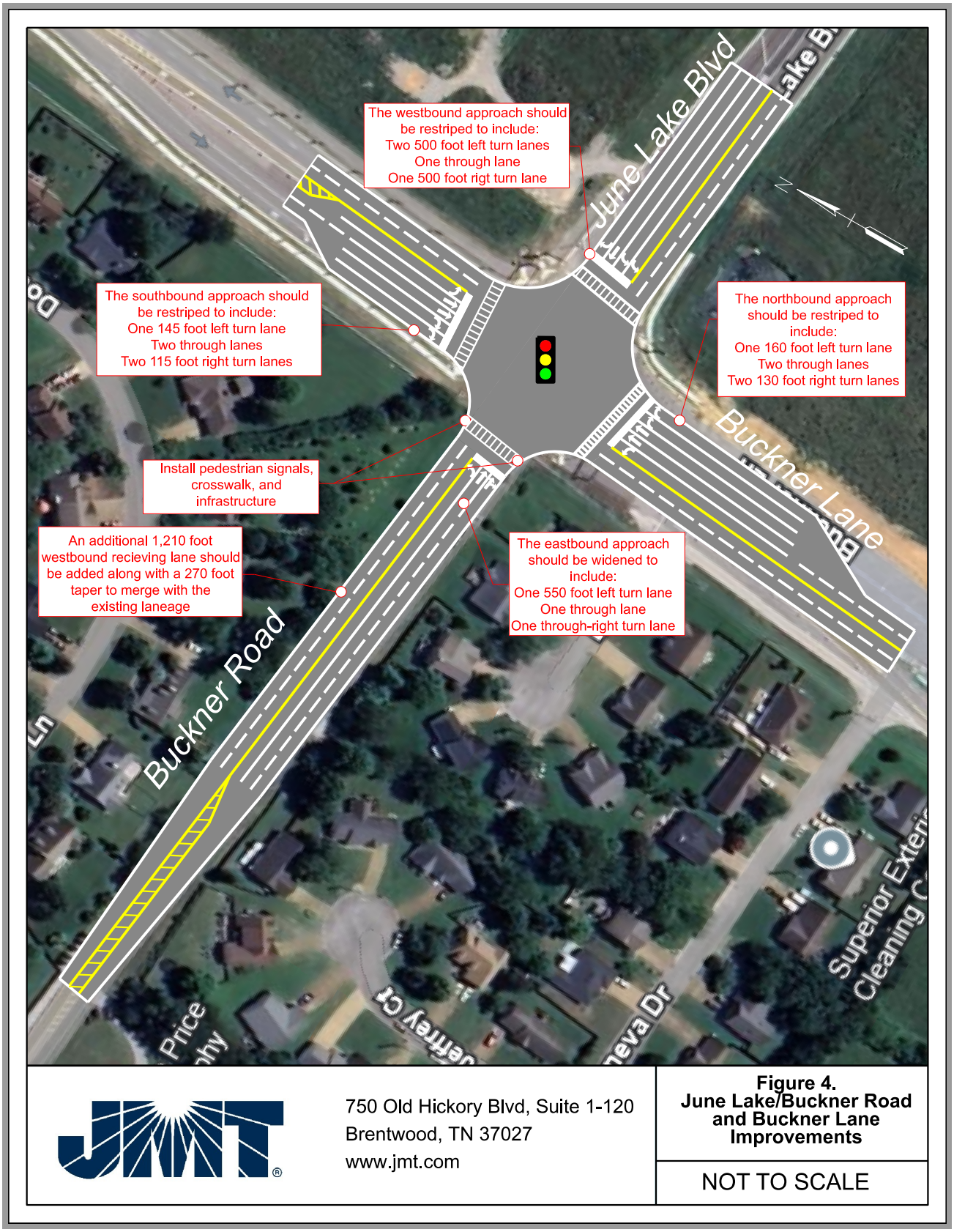
Recommendations

In conclusion, the analyses contained in this study indicate that peak hour levels of service can be maintained at the intersection studied, and acceptable peak hour traffic can be achieved with a few roadway and traffic control improvements to the roadway network. Based on the analysis in this memorandum, the recommendations which are illustrated in Figure 4 are as follows:

June Lake Boulevard/Buckner Road and Buckner Lane

- The northbound approach on Buckner Lane should be restriped to include one northbound left turn lane with a minimum of 160 feet of storage, two northbound through lanes, and two northbound right turn lanes with a minimum of 130 feet of storage each.
- The eastbound approach on Buckner Road should be widened to include one eastbound left turn lane with a minimum of 550 feet of storage, one eastbound through lane, and one eastbound through-right turn lane.
- An additional 1,210 foot westbound receiving lane on Buckner Road should be added along with a 270 foot taper to merge with the existing laneage.
- The southbound approach on Buckner Lane should be restriped to include one southbound left turn lane with a minimum of 145 feet of storage, two southbound through lanes, and two southbound right turn lanes with a minimum of 115 feet of storage each.
- The westbound approach on June Lake Boulevard should be restriped to include two westbound left turn lanes with a minimum of 500 feet of storage each, one westbound through lane, and one westbound right turn lane with a minimum of 500 feet of storage.
- Pedestrian signals, crosswalk, and infrastructure should be installed across Buckner Road.
- JMT will review any existing signal plans from the City of Spring Hill for the intersection of June Lake Boulevard/Buckner Road and Buckner Lane along with any adjacent intersections and provide comments and/or redlines to help coordinate the signals.

All roadways and intersections should be constructed according to American Association of State Highway and Transportation Officials (AASHTO), Manual on Uniform Traffic Control Devices (MUTCD), Tennessee Department of Transportation (TDOT), and City of Spring Hill standards.


The westbound approach should be restriped to include:
Two 500 foot left turn lanes
One through lane
One 500 foot rigt turn lane
June Lake Blvd
The southbound approach should be restriped to include:
One 145 foot left turn lane
Two through lanes
Two 115 foot right turn lanes
The northbound approach should be restriped to include:
One 160 foot left turn lane
Two through lanes
Two 130 foot right turn lanes
Buckner Lane
Install pedestrian signals, crosswalk, and infrastructure
An additional 1,210 foot westbound recieving lane should be added along with a 270 foot taper to merge with the existing laneage
The eastbound approach should be widened to include:
One 550 foot left turn lane
One through lane
One through-right turn lane
Buckner Road
750 Old Hickory Blvd, Suite 1-120
Brentwood, TN 37027
www.jmt.com
Figure 4.
June Lake/Buckner Road and Buckner Lane Improvements
NOT TO SCALE

Appendix A

Turning Movement Counts

Peak Hour Turning Movement Count
Spring Hill, TN
Click here for Map
Marr Traffic DATA COLLECTION
www.marrtraffic.com
Buckner Ln (North)
Southbound
Tuesday, April 22, 2025
Mostly Cloudy
67°F
Period
0600 - 0900
APPLY
Peak Hour
0630 - 0730
APPLY
Global PH
0630 - 0730
APPLY
* the Peak Hour Diagram does not include bicycles
Session Parameters
(Drop Down Menu)
Peak Hour
Volume
Buckner Rd
Eastbound
June Lake Blvd
Westbound
Classes
Volume
PHF
ADT (Calc)
Total
Northbound
Buckner Ln (South)

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	5	63	217	-	0	285	22	7	6	-	0	35	31	111	1	-	0	143	20	12	24	-	0	56	519
0645 - 0700	8	72	203	-	0	283	29	9	7	-	0	45	45	120	4	-	0	169	48	16	34	-	0	98	595
0700 - 0715	2	57	132	-	0	191	11	29	6	-	0	46	69	140	4	-	0	213	34	18	24	-	0	76	526
0715 - 0730	9	41	98	-	0	148	20	87	10	-	0	117	59	122	3	-	0	184	61	24	17	-	0	102	551
Total	24	233	650	0	0	907	82	132	29	0	0	243	204	493	12	0	0	709	163	70	99	0	0	332	2191
Approach %	2.65	25.69	71.66	0.00	0.00	-	33.74	54.32	11.93	0.00	0.00	-	28.77	69.53	1.69	0.00	0.00	-	49.10	21.08	29.82	0.00	0.00	-	
PHF	0.67	0.81	0.75	0.00	0.00	**0.80**	0.71	0.38	0.73	0.00	0.00	**0.52**	0.74	0.88	0.75	0.00	0.00	**0.83**	0.67	0.73	0.73	0.00	0.00	**0.81**	**0.92**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	5	62	213	-	0	280	21	7	5	-	0	33	30	110	1	-	0	141	19	12	22	-	0	53	507
0645 - 0700	8	72	202	-	0	282	29	7	5	-	0	41	44	120	4	-	0	168	47	16	33	-	0	96	587
0700 - 0715	2	55	132	-	0	189	11	26	6	-	0	43	68	138	4	-	0	210	30	17	23	-	0	70	512
0715 - 0730	9	41	96	-	0	146	20	86	10	-	0	116	56	121	3	-	0	180	59	22	17	-	0	98	540
Total	24	230	643	0	0	897	81	126	26	0	0	233	198	489	12	0	0	699	155	67	95	0	0	317	2146
Approach %	2.68	25.64	71.68	0.00	0.00	-	34.76	54.08	11.16	0.00	0.00	-	28.33	69.96	1.72	0.00	0.00	-	48.90	21.14	29.97	0.00	0.00	-	
PHF	0.67	0.80	0.75	0.00	0.00	**0.80**	0.70	0.37	0.65	0.00	0.00	**0.50**	0.73	0.89	0.75	0.00	0.00	**0.83**	0.66	0.76	0.72	0.00	0.00	**0.81**	**0.91**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	1	3	-	0	4	1	0	1	-	0	2	1	1	0	-	0	2	0	0	1	-	0	1	9
0645 - 0700	0	0	1	-	0	1	0	2	2	-	0	4	1	0	0	-	0	1	1	0	1	-	0	2	8
0700 - 0715	0	2	0	-	0	2	0	3	0	-	0	3	1	2	0	-	0	3	2	1	1	-	0	4	12
0715 - 0730	0	0	2	-	0	2	0	1	0	-	0	1	3	0	0	-	0	3	2	2	0	-	0	4	10
Total	0	3	6	0	0	9	1	6	3	0	0	10	6	3	0	0	0	9	5	3	3	0	0	11	39
Approach %	0.00	33.33	66.67	0.00	0.00	-	10.00	60.00	30.00	0.00	0.00	-	66.67	33.33	0.00	0.00	0.00	-	45.45	27.27	27.27	0.00	0.00	-	
PHF	0.00	0.38	0.50	0.00	0.00	**0.56**	0.25	0.50	0.38	0.00	0.00	**0.63**	0.50	0.38	0.00	0.00	0.00	**0.75**	0.63	0.38	0.75	0.00	0.00	**0.69**	**0.81**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	0	1	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	1	0	1	-	0	2	3
0645 - 0700	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0700 - 0715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	2	0	0	-	0	2	2
0715 - 0730	0	0	0	-	0	0	0	0	0	-	0	0	0	1	0	-	0	1	0	0	0	-	0	0	1
Total	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	0	1	3	0	1	0	0	4	6
Approach %	0.00	0.00	100.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	100.00	0.00	0.00	0.00	-	75.00	0.00	25.00	0.00	0.00	-	
PHF	0.00	0.00	0.25	0.00	0.00	**0.25**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.25	0.00	0.00	0.00	**0.25**	0.38	0.00	0.25	0.00	0.00	**0.50**	**0.50**

Bicycles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0645 - 0700	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0700 - 0715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0715 - 0730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Peak Hour Turning Movement Count
Spring Hill, TN
Click here for Map
Marr Traffic DATA COLLECTION
www.marrtraffic.com
Tuesday, April 22, 2025
Mostly Cloudy
67°F
Period
1400 - 1800
APPLY
Peak Hour
1615 - 1715
APPLY
Global PH
1615 - 1715
APPLY
* the Peak Hour Diagram does not include bicycles
Buckner Ln (North)
Southbound
Session Parameters
(Drop Down Menu)
Peak Hour
Volume
Buckner Rd
Eastbound
June Lake Blvd
Westbound
Buckner Ln (South)
Northbound
Classes
Volume
PHF
ADT (Calc)
Total

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	20	33	52	-	0	105	25	141	104	-	0	270	18	56	25	-	0	99	57	60	12	-	0	129	603
1630 - 1645	20	37	91	-	0	148	42	137	103	-	0	282	14	59	19	-	0	92	45	49	10	-	0	104	626
1645 - 1700	18	36	65	-	0	119	18	167	134	-	0	319	19	62	17	-	0	98	51	60	12	-	0	123	659
1700 - 1715	28	37	85	-	0	150	43	133	119	-	0	295	15	71	10	-	0	96	51	58	19	-	0	128	669
Total	86	143	293	0	0	522	128	578	460	0	0	1166	66	248	71	0	0	385	204	227	53	0	0	484	2557
Approach %	16.48	27.39	56.13	0.00	0.00	-	10.98	49.57	39.45	0.00	0.00	-	17.14	64.42	18.44	0.00	0.00	-	42.15	46.90	10.95	0.00	0.00		
PHF	0.77	0.97	0.80	0.00	0.00	**0.87**	0.74	0.87	0.86	0.00	0.00	**0.91**	0.87	0.87	0.71	0.00	0.00	**0.97**	0.89	0.95	0.70	0.00	0.00	**0.94**	**0.96**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	20	33	51	-	0	104	25	140	102	-	0	267	17	54	25	-	0	96	57	60	12	-	0	129	596
1630 - 1645	20	36	89	-	0	145	37	132	103	-	0	272	11	59	19	-	0	89	45	49	10	-	0	104	610
1645 - 1700	18	35	63	-	0	116	18	165	132	-	0	315	19	60	17	-	0	96	51	60	12	-	0	123	650
1700 - 1715	28	37	85	-	0	150	43	131	118	-	0	292	15	71	10	-	0	96	46	57	18	-	0	121	659
Total	86	141	288	0	0	515	123	568	455	0	0	1146	62	244	71	0	0	377	199	226	52	0	0	477	2515
Approach %	16.70	27.38	55.92	0.00	0.00	-	10.73	49.56	39.70	0.00	0.00	-	16.45	64.72	18.83	0.00	0.00	-	41.72	47.38	10.90	0.00	0.00		
PHF	0.77	0.95	0.81	0.00	0.00	**0.86**	0.72	0.86	0.86	0.00	0.00	**0.91**	0.82	0.86	0.71	0.00	0.00	**0.98**	0.87	0.94	0.72	0.00	0.00	**0.92**	**0.95**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	0	0	1	-	0	1	0	1	2	-	0	3	1	2	0	-	0	3	0	0	0	-	0	0	7
1630 - 1645	0	1	2	-	0	3	4	5	0	-	0	9	1	0	0	-	0	1	0	0	0	-	0	0	13
1645 - 1700	0	1	2	-	0	3	0	2	2	-	0	4	0	1	0	-	0	1	0	0	0	-	0	0	8
1700 - 1715	0	0	0	-	0	0	0	2	1	-	0	3	0	0	0	-	0	0	4	1	1	-	0	6	9
Total	0	2	5	0	0	7	4	10	5	0	0	19	2	3	0	0	0	5	4	1	1	0	0	6	37
Approach %	0.00	28.57	71.43	0.00	0.00	-	21.05	52.63	26.32	0.00	0.00	-	40.00	60.00	0.00	0.00	0.00	-	66.67	16.67	16.67	0.00	0.00	-	
PHF	0.00	0.50	0.63	0.00	0.00	**0.58**	0.25	0.50	0.63	0.00	0.00	**0.53**	0.50	0.38	0.00	0.00	0.00	**0.42**	0.25	0.25	0.25	0.00	0.00	**0.25**	**0.71**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1630 - 1645	0	0	0	-	0	0	1	0	0	-	0	1	2	0	0	-	0	2	0	0	0	-	0	0	3
1645 - 1700	0	0	0	-	0	0	0	0	0	-	0	0	0	1	0	-	0	1	0	0	0	-	0	0	1
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	0	1	1
Total	0	0	0	0	0	0	1	0	0	0	0	1	2	1	0	0	0	3	1	0	0	0	0	1	5
Approach %	0.00	0.00	0.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	66.67	33.33	0.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.25	0.00	0.00	0.00	0.00	**0.25**	0.25	0.25	0.00	0.00	0.00	**0.38**	0.25	0.00	0.00	0.00	0.00	**0.25**	**0.42**

Bicycles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1630 - 1645	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1645 - 1700	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Classified Turn Movement Count || All vehicles

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-22-2025)
All vehicles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	1	34	126	0	161	7	6	3	0	16	7	91	4	0	102	11	8	3	0	22	301
0615 - 0630	3	45	185	0	233	8	10	2	0	20	22	78	4	0	104	14	9	8	0	31	388
0630 - 0645	5	63	217	0	285	22	7	6	0	35	31	111	1	0	143	20	12	24	0	56	519
0645 - 0700	8	72	203	0	283	29	9	7	0	45	45	120	4	0	169	48	16	34	0	98	595
Hourly Total	17	214	731	0	**962**	66	32	18	0	**116**	105	400	13	0	**518**	93	45	69	0	**207**	**1803**
0700 - 0715	2	57	132	0	191	11	29	6	0	46	69	140	4	0	213	34	18	24	0	76	526
0715 - 0730	9	41	98	0	148	20	87	10	0	117	59	122	3	0	184	61	24	17	0	102	551
0730 - 0745	22	46	114	0	182	30	54	39	0	123	19	108	1	0	128	26	28	21	0	75	508
0745 - 0800	21	46	180	0	247	25	7	10	0	42	41	112	5	0	158	21	21	6	0	48	495
Hourly Total	54	190	524	0	**768**	86	177	65	0	**328**	188	482	13	0	**683**	142	91	68	0	**301**	**2080**
0800 - 0815	8	46	153	0	207	7	19	15	0	41	31	100	7	0	138	29	27	19	0	75	461
0815 - 0830	9	48	176	0	233	10	21	9	0	40	29	109	7	0	145	17	35	16	0	68	486
0830 - 0845	7	34	162	0	203	25	26	24	0	75	19	97	7	0	123	31	25	11	0	67	468
0845 - 0900	9	40	129	0	178	23	31	11	0	65	20	94	8	0	122	32	24	16	0	72	437
Hourly Total	33	168	620	0	**821**	65	97	59	0	**221**	99	400	29	0	**528**	109	111	62	0	**282**	**1852**
Grand Total	104	572	1875	0	**2551**	217	306	142	0	**665**	392	1282	55	0	**1729**	344	247	199	0	**790**	**5735**
Approach %	4.08	22.42	73.50	0.00	-	32.63	46.02	21.35	0.00	-	22.67	74.15	3.18	0.00	-	43.54	31.27	25.19	0.00	-	
Intersection %	1.81	9.97	32.69	0.00	44.48	3.78	5.34	2.48	0.00	11.60	6.84	22.35	0.96	0.00	30.15	6.00	4.31	3.47	0.00	13.78	
Heavy Vehicle %	6	4	1	-	**2**	5	6	7	-	**6**	2	1	4	-	**1**	7	4	7	-	**6**	**3**
PHF	0.67	0.81	0.75	0.00	**0.80**	0.71	0.38	0.73	0.00	**0.52**	0.74	0.88	0.75	0.00	**0.83**	0.67	0.73	0.73	0.00	**0.81**	**0.92**
Peak Hour Total	24	233	650	0	**907**	82	132	29	0	**243**	204	493	12	0	**709**	163	70	99	0	**332**	**2191**
Peak Hour HV %	0	1	1	0	**1**	1	5	10	0	**4**	3	1	0	0	**1**	5	4	4	0	**5**	**2**

1400 - 1800 (Weekday 4h Session) (04-22-2025)
All vehicles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	18	26	40	0	84	12	24	25	0	61	16	37	13	0	66	51	57	9	0	117	328
1415 - 1430	7	15	45	0	67	12	22	17	0	51	9	41	14	0	64	43	45	18	0	106	288
1430 - 1445	5	22	43	0	70	15	30	25	0	70	19	54	12	0	85	67	75	23	0	165	390
1445 - 1500	18	40	56	0	114	22	83	64	0	169	15	58	13	0	86	54	64	14	0	132	501
Hourly Total	48	103	184	0	**335**	61	159	131	0	**351**	59	190	52	0	**301**	215	241	64	0	**520**	**1507**
1500 - 1515	31	61	87	0	179	23	72	118	0	213	16	54	8	0	78	55	65	8	0	128	598
1515 - 1530	34	39	67	0	140	19	94	126	0	239	19	52	6	0	77	46	76	7	0	129	585
1530 - 1545	14	29	59	0	102	20	112	92	0	224	24	69	19	0	112	40	67	10	0	117	555
1545 - 1600	18	24	55	0	97	23	129	86	0	238	9	38	15	0	62	47	59	13	0	119	516
Hourly Total	97	153	268	0	**518**	85	407	422	0	**914**	68	213	48	0	**329**	188	267	38	0	**493**	**2254**
1600 - 1615	14	31	70	0	115	26	166	108	0	300	11	71	14	0	96	40	56	18	0	114	625
1615 - 1630	20	33	52	0	105	25	141	104	0	270	18	56	25	0	99	57	60	12	0	129	603
1630 - 1645	20	37	91	0	148	42	137	103	0	282	14	59	19	0	92	45	49	10	0	104	626
1645 - 1700	18	36	65	0	119	18	167	134	0	319	19	62	17	0	98	51	60	12	0	123	659
Hourly Total	72	137	278	0	**487**	111	611	449	0	**1171**	62	248	75	0	**385**	193	225	52	0	**470**	**2513**
1700 - 1715	28	37	85	0	150	43	133	119	0	295	15	71	10	0	96	51	58	19	0	128	669
1715 - 1730	12	35	52	0	99	22	117	119	0	258	16	82	32	0	130	43	52	13	0	108	595
1730 - 1745	11	33	80	0	124	28	147	98	0	273	16	53	18	0	87	41	51	7	0	99	583
1745 - 1800	24	46	68	0	138	19	129	100	0	248	16	49	20	0	85	55	53	9	0	117	588
Hourly Total	75	151	285	0	**511**	112	526	436	0	**1074**	63	255	80	0	**398**	190	214	48	0	**452**	**2435**
Grand Total	292	544	1015	0	**1851**	369	1703	1438	0	**3510**	252	906	255	0	**1413**	786	947	202	0	**1935**	**8709**
Approach %	15.78	29.39	54.84	0.00	-	10.51	48.52	40.97	0.00	-	17.83	64.12	18.05	0.00	-	40.62	48.94	10.44	0.00	-	
Intersection %	3.35	6.25	11.65	0.00	21.25	4.24	19.55	16.51	0.00	40.30	2.89	10.40	2.93	0.00	16.22	9.03	10.87	2.32	0.00	22.22	
Heavy Vehicle %	2	2	2	-	**2**	7	1	1	-	**2**	3	2	2	-	**2**	1	1	10	-	**2**	**2**
PHF	0.77	0.97	0.80	0.00	**0.87**	0.74	0.87	0.86	0.00	**0.91**	0.87	0.87	0.71	0.00	**0.97**	0.89	0.95	0.70	0.00	**0.94**	**0.96**
Peak Hour Total	86	143	293	0	**522**	128	578	460	0	**1166**	66	248	71	0	**385**	204	227	53	0	**484**	**2557**
Peak Hour HV %	0	1	2	0	**1**	4	2	1	0	**2**	6	2	0	0	**2**	2	0	2	0	**1**	**2**

Classified Turn Movement Count || Passenger Vehicles (1-3)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-22-2025)
Passenger Vehicles (1-3)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	1	33	126	0	160	6	6	3	0	15	7	91	4	0	102	10	7	3	0	20	297
0615 - 0630	3	42	184	0	229	8	8	2	0	18	22	78	4	0	104	12	9	7	0	28	379
0630 - 0645	5	62	213	0	280	21	7	5	0	33	30	110	1	0	141	19	12	22	0	53	507
0645 - 0700	8	72	202	0	282	29	7	5	0	41	44	120	4	0	168	47	16	33	0	96	587
Hourly Total	17	209	725	0	**951**	64	28	15	0	**107**	103	399	13	0	**515**	88	44	65	0	**197**	**1770**
0700 - 0715	2	55	132	0	189	11	26	6	0	43	68	138	4	0	210	30	17	23	0	70	512
0715 - 0730	9	41	96	0	146	20	86	10	0	116	56	121	3	0	180	59	22	17	0	98	540
0730 - 0745	21	42	113	0	176	29	51	37	0	117	19	107	1	0	127	24	26	19	0	69	489
0745 - 0800	21	41	179	0	241	24	7	9	0	40	41	108	5	0	154	20	21	6	0	47	482
Hourly Total	53	179	520	0	**752**	84	170	62	0	**316**	184	474	13	0	**671**	133	86	65	0	**284**	**2023**
0800 - 0815	7	46	152	0	205	7	19	13	0	39	29	100	7	0	136	28	27	17	0	72	452
0815 - 0830	8	43	173	0	224	8	20	7	0	35	29	108	6	0	143	16	34	14	0	64	466
0830 - 0845	4	34	160	0	198	24	22	24	0	70	19	96	6	0	121	27	24	11	0	62	451
0845 - 0900	9	38	126	0	173	20	30	11	0	61	20	91	8	0	119	28	22	13	0	63	416
Hourly Total	28	161	611	0	**800**	59	91	55	0	**205**	97	395	27	0	**519**	99	107	55	0	**261**	**1785**
Grand Total	98	549	1856	0	**2503**	207	289	132	0	**628**	384	1268	53	0	**1705**	320	237	185	0	**742**	**5578**
Approach %	3.92	21.93	74.15	0.00	-	32.96	46.02	21.02	0.00	-	22.52	74.37	3.11	0.00	-	43.13	31.94	24.93	0.00	-	
Intersection %	1.76	9.84	33.27	0.00	44.87	3.71	5.18	2.37	0.00	11.26	6.88	22.73	0.95	0.00	30.57	5.74	4.25	3.32	0.00	13.30	

1400 - 1800 (Weekday 4h Session) (04-22-2025)
Passenger Vehicles (1-3)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	17	22	39	0	78	8	23	25	0	56	16	35	12	0	63	50	56	7	0	113	310
1415 - 1430	7	14	43	0	64	10	20	17	0	47	9	38	14	0	61	42	44	16	0	102	274
1430 - 1445	5	22	42	0	69	12	29	25	0	66	18	53	10	0	81	67	73	17	0	157	373
1445 - 1500	17	39	54	0	110	17	82	62	0	161	15	57	12	0	84	54	64	12	0	130	485
Hourly Total	46	97	178	0	**321**	47	154	129	0	**330**	58	183	48	0	**289**	213	237	52	0	**502**	**1442**
1500 - 1515	31	59	87	0	177	20	72	118	0	210	16	52	8	0	76	55	65	7	0	127	590
1515 - 1530	33	38	66	0	137	17	92	125	0	234	18	51	6	0	75	46	75	7	0	128	574
1530 - 1545	14	29	59	0	102	20	111	92	0	223	23	66	19	0	108	39	66	9	0	114	547
1545 - 1600	18	23	54	0	95	22	127	84	0	233	8	38	15	0	61	46	58	13	0	117	506
Hourly Total	96	149	266	0	**511**	79	402	419	0	**900**	65	207	48	0	**320**	186	264	36	0	**486**	**2217**
1600 - 1615	12	30	70	0	112	26	166	106	0	298	11	71	13	0	95	40	56	15	0	111	616
1615 - 1630	20	33	51	0	104	25	140	102	0	267	17	54	25	0	96	57	60	12	0	129	596
1630 - 1645	20	36	89	0	145	37	132	103	0	272	11	59	19	0	89	45	49	10	0	104	610
1645 - 1700	18	35	63	0	116	18	165	132	0	315	19	60	17	0	96	51	60	12	0	123	650
Hourly Total	70	134	273	0	**477**	106	603	443	0	**1152**	58	244	74	0	**376**	193	225	49	0	**467**	**2472**
1700 - 1715	28	37	85	0	150	43	131	118	0	292	15	71	10	0	96	46	57	18	0	121	659
1715 - 1730	12	35	50	0	97	22	115	119	0	256	16	82	32	0	130	42	52	12	0	106	589
1730 - 1745	11	33	78	0	122	28	147	97	0	272	16	53	18	0	87	41	50	7	0	98	579
1745 - 1800	24	46	67	0	137	19	129	100	0	248	16	49	20	0	85	55	53	8	0	116	586
Hourly Total	75	151	280	0	**506**	112	522	434	0	**1068**	63	255	80	0	**398**	184	212	45	0	**441**	**2413**
Grand Total	287	531	997	0	**1815**	344	1681	1425	0	**3450**	244	889	250	0	**1383**	776	938	182	0	**1896**	**8544**
Approach %	15.81	29.26	54.93	0.00	-	9.97	48.72	41.30	0.00	-	17.64	64.28	18.08	0.00	-	40.93	49.47	9.60	0.00	-	
Intersection %	3.36	6.21	11.67	0.00	21.24	4.03	19.67	16.68	0.00	40.38	2.86	10.40	2.93	0.00	16.19	9.08	10.98	2.13	0.00	22.19	

Classified Turn Movement Count || Single Unit Trucks (4-7)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-22-2025)
Single Unit Trucks (4-7)

	Northbound					Southbound					Eastbound					Westbound					
	Buckner Ln (South)					Buckner Ln (North)					Buckner Rd					June Lake Blvd					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	2	4
0615 - 0630	0	3	1	0	4	0	2	0	0	2	0	0	0	0	0	1	0	1	0	2	8
0630 - 0645	0	1	3	0	4	1	0	1	0	2	1	1	0	0	2	0	0	1	0	1	9
0645 - 0700	0	0	1	0	1	0	2	2	0	4	1	0	0	0	1	1	0	1	0	2	8
Hourly Total	0	5	5	0	10	2	4	3	0	9	2	1	0	0	3	3	1	3	0	7	29
0700 - 0715	0	2	0	0	2	0	3	0	0	3	1	2	0	0	3	2	1	1	0	4	12
0715 - 0730	0	0	2	0	2	0	1	0	0	1	3	0	0	0	3	2	2	0	0	4	10
0730 - 0745	1	3	0	0	4	1	3	1	0	5	0	0	0	0	0	1	2	2	0	5	14
0745 - 0800	0	5	1	0	6	1	0	1	0	2	0	1	0	0	1	1	0	0	0	1	10
Hourly Total	1	10	3	0	14	2	7	2	0	11	4	3	0	0	7	6	5	3	0	14	46
0800 - 0815	1	0	1	0	2	0	0	2	0	2	2	0	0	0	2	1	0	0	0	1	7
0815 - 0830	1	5	1	0	7	2	1	2	0	5	0	1	0	0	1	1	1	2	0	4	17
0830 - 0845	3	0	2	0	5	0	4	0	0	4	0	1	1	0	2	2	1	0	0	3	14
0845 - 0900	0	1	2	0	3	2	1	0	0	3	0	2	0	0	2	4	2	3	0	9	17
Hourly Total	5	6	6	0	17	4	6	4	0	14	2	4	1	0	7	8	4	5	0	17	55
Grand Total	6	21	14	0	41	8	17	9	0	34	8	8	1	0	17	17	10	11	0	38	130
Approach %	14.63	51.22	34.15	0.00	-	23.53	50.00	26.47	0.00	-	47.06	47.06	5.88	0.00	-	44.74	26.32	28.95	0.00	-	
Intersection %	4.62	16.15	10.77	0.00	31.54	6.15	13.08	6.92	0.00	26.15	6.15	6.15	0.77	0.00	13.08	13.08	7.69	8.46	0.00	29.23	

1400 - 1800 (Weekday 4h Session) (04-22-2025)
Single Unit Trucks (4-7)

	Northbound					Southbound					Eastbound					Westbound					
	Buckner Ln (South)					Buckner Ln (North)					Buckner Rd					June Lake Blvd					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	1	4	1	0	6	4	1	0	0	5	0	1	1	0	2	1	1	1	0	3	16
1415 - 1430	0	1	2	0	3	1	2	0	0	3	0	2	0	0	2	1	0	2	0	3	11
1430 - 1445	0	0	1	0	1	3	1	0	0	4	1	1	2	0	4	0	0	6	0	6	15
1445 - 1500	1	1	1	0	3	4	1	2	0	7	0	0	1	0	1	0	0	2	0	2	13
Hourly Total	2	6	5	0	13	12	5	2	0	19	1	4	4	0	9	2	1	11	0	14	55
1500 - 1515	0	2	0	0	2	3	0	0	0	3	0	2	0	0	2	0	0	1	0	1	8
1515 - 1530	1	1	1	0	3	2	2	1	0	5	1	1	0	0	2	0	1	0	0	1	11
1530 - 1545	0	0	0	0	0	0	1	0	0	1	1	2	0	0	3	1	1	1	0	3	7
1545 - 1600	0	1	1	0	2	1	2	2	0	5	1	0	0	0	1	1	1	0	0	2	10
Hourly Total	1	4	2	0	7	6	5	3	0	14	3	5	0	0	8	2	3	2	0	7	36
1600 - 1615	2	1	0	0	3	0	0	2	0	2	0	0	1	0	1	0	0	3	0	3	9
1615 - 1630	0	0	1	0	1	0	1	2	0	3	1	2	0	0	3	0	0	0	0	0	7
1630 - 1645	0	1	2	0	3	4	5	0	0	9	1	0	0	0	1	0	0	0	0	0	13
1645 - 1700	0	1	2	0	3	0	2	2	0	4	0	1	0	0	1	0	0	0	0	0	8
Hourly Total	2	3	5	0	10	4	8	6	0	18	2	3	1	0	6	0	0	3	0	3	37
1700 - 1715	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	4	1	1	0	6	9
1715 - 1730	0	0	2	0	2	0	2	0	0	2	0	0	0	0	0	1	0	0	0	1	5
1730 - 1745	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
1745 - 1800	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
Hourly Total	0	0	4	0	4	0	4	1	0	5	0	0	0	0	0	5	2	2	0	9	18
Grand Total	5	13	16	0	34	22	22	12	0	56	6	12	5	0	23	9	6	18	0	33	146
Approach %	14.71	38.24	47.06	0.00	-	39.29	39.29	21.43	0.00	-	26.09	52.17	21.74	0.00	-	27.27	18.18	54.55	0.00	-	
Intersection %	3.42	8.90	10.96	0.00	23.29	15.07	15.07	8.22	0.00	38.36	4.11	8.22	3.42	0.00	15.75	6.16	4.11	12.33	0.00	22.60	

Classified Turn Movement Count || Combination Trucks (8-13)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-22-2025)
Combination Trucks (8-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
0630 - 0645	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	3
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	1	0	**1**	0	0	0	0	**0**	0	0	0	0	**0**	2	0	1	0	**3**	**4**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2	2
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
0730 - 0745	0	1	1	0	2	0	0	1	0	1	0	1	0	0	1	1	0	0	0	1	5
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	3
Hourly Total	0	1	1	0	**2**	0	0	1	0	**1**	0	5	0	0	**5**	3	0	0	0	**3**	**11**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	2
0815 - 0830	0	0	2	0	2	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	3
0830 - 0845	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	2	0	0	0	2	3
0845 - 0900	0	1	1	0	2	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	4
Hourly Total	0	1	3	0	**4**	2	0	0	0	**2**	0	1	1	0	**2**	2	0	2	0	**4**	**12**
Grand Total	0	2	5	0	**7**	2	0	1	0	**3**	0	6	1	0	**7**	7	0	3	0	**10**	**27**
Approach %	0.00	28.57	71.43	0.00	-	66.67	0.00	33.33	0.00	-	0.00	85.71	14.29	0.00	-	70.00	0.00	30.00	0.00	-	
Intersection %	0.00	7.41	18.52	0.00	25.93	7.41	0.00	3.70	0.00	11.11	0.00	22.22	3.70	0.00	25.93	25.93	0.00	11.11	0.00	37.04	

1400 - 1800 (Weekday 4h Session) (04-22-2025)
Combination Trucks (8-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	2
1415 - 1430	0	0	0	0	0	1	0	0	0	1	0	1	0	0	1	0	1	0	0	1	3
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
1445 - 1500	0	0	1	0	1	1	0	0	0	1	0	1	0	0	1	0	0	0	0	0	3
Hourly Total	0	0	1	0	**1**	2	0	0	0	**2**	0	3	0	0	**3**	0	3	1	0	**4**	**10**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	1	0	0	**1**	0	0	0	0	**0**	**1**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	1	0	0	0	1	2	0	0	0	2	0	0	0	0	0	3
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
Hourly Total	0	0	0	0	**0**	1	0	0	0	**1**	2	1	0	0	**3**	0	0	0	0	**0**	**4**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
1730 - 1745	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	1	0	**1**	0	0	1	0	**1**	0	0	0	0	**0**	1	0	1	0	**2**	**4**
Grand Total	0	0	2	0	**2**	3	0	1	0	**4**	2	5	0	0	**7**	1	3	2	0	**6**	**19**
Approach %	0.00	0.00	100.00	0.00	-	75.00	0.00	25.00	0.00	-	28.57	71.43	0.00	0.00	-	16.67	50.00	33.33	0.00	-	
Intersection %	0.00	0.00	10.53	0.00	10.53	15.79	0.00	5.26	0.00	21.05	10.53	26.32	0.00	0.00	36.84	5.26	15.79	10.53	0.00	31.58	

Classified Turn Movement Count || Bicycles

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-22-2025)
Bicycles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Grand Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Approach %	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-22-2025)
Bicycles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Grand Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Approach %	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Classified Turn Movement Count || All Trucks (4-13)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
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0600 - 0900 (Weekday 3h Session) (04-22-2025)
All Trucks (4-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	1	1	0	0	2	4
0615 - 0630	0	3	1	0	4	0	2	0	0	2	0	0	0	0	0	2	0	1	0	3	9
0630 - 0645	0	1	4	0	5	1	0	1	0	2	1	1	0	0	2	1	0	2	0	3	12
0645 - 0700	0	0	1	0	1	0	2	2	0	4	1	0	0	0	1	1	0	1	0	2	8
Hourly Total	0	5	6	0	**11**	2	4	3	0	**9**	2	1	0	0	**3**	5	1	4	0	**10**	**33**
0700 - 0715	0	2	0	0	2	0	3	0	0	3	1	2	0	0	3	4	1	1	0	6	14
0715 - 0730	0	0	2	0	2	0	1	0	0	1	3	1	0	0	4	2	2	0	0	4	11
0730 - 0745	1	4	1	0	6	1	3	2	0	6	0	1	0	0	1	2	2	2	0	6	19
0745 - 0800	0	5	1	0	6	1	0	1	0	2	0	4	0	0	4	1	0	0	0	1	13
Hourly Total	1	11	4	0	**16**	2	7	3	0	**12**	4	8	0	0	**12**	9	5	3	0	**17**	**57**
0800 - 0815	1	0	1	0	2	0	0	2	0	2	2	0	0	0	2	1	0	2	0	3	9
0815 - 0830	1	5	3	0	9	2	1	2	0	5	0	1	1	0	2	1	1	2	0	4	20
0830 - 0845	3	0	2	0	5	1	4	0	0	5	0	1	1	0	2	4	1	0	0	5	17
0845 - 0900	0	2	3	0	5	3	1	0	0	4	0	3	0	0	3	4	2	3	0	9	21
Hourly Total	5	7	9	0	**21**	6	6	4	0	**16**	2	5	2	0	**9**	10	4	7	0	**21**	**67**
Grand Total	6	23	19	0	**48**	10	17	10	0	**37**	8	14	2	0	**24**	24	10	14	0	**48**	**157**
Approach %	12.50	47.92	39.58	0.00	-	27.03	45.95	27.03	0.00	-	33.33	58.33	8.33	0.00	-	50.00	20.83	29.17	0.00	-	
Intersection %	3.82	14.65	12.10	0.00	30.57	6.37	10.83	6.37	0.00	23.57	5.10	8.92	1.27	0.00	15.29	15.29	6.37	8.92	0.00	30.57	

1400 - 1800 (Weekday 4h Session) (04-22-2025)
All Trucks (4-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	1	4	1	0	6	4	1	0	0	5	0	2	1	0	3	1	1	2	0	4	18
1415 - 1430	0	1	2	0	3	2	2	0	0	4	0	3	0	0	3	1	1	2	0	4	14
1430 - 1445	0	0	1	0	1	3	1	0	0	4	1	1	2	0	4	0	2	6	0	8	17
1445 - 1500	1	1	2	0	4	5	1	2	0	8	0	1	1	0	2	0	0	2	0	2	16
Hourly Total	2	6	6	0	**14**	14	5	2	0	**21**	1	7	4	0	**12**	2	4	12	0	**18**	**65**
1500 - 1515	0	2	0	0	2	3	0	0	0	3	0	2	0	0	2	0	0	1	0	1	8
1515 - 1530	1	1	1	0	3	2	2	1	0	5	1	1	0	0	2	0	1	0	0	1	11
1530 - 1545	0	0	0	0	0	0	1	0	0	1	1	3	0	0	4	1	1	1	0	3	8
1545 - 1600	0	1	1	0	2	1	2	2	0	5	1	0	0	0	1	1	1	0	0	2	10
Hourly Total	1	4	2	0	**7**	6	5	3	0	**14**	3	6	0	0	**9**	2	3	2	0	**7**	**37**
1600 - 1615	2	1	0	0	3	0	0	2	0	2	0	0	1	0	1	0	0	3	0	3	9
1615 - 1630	0	0	1	0	1	0	1	2	0	3	1	2	0	0	3	0	0	0	0	0	7
1630 - 1645	0	1	2	0	3	5	5	0	0	10	3	0	0	0	3	0	0	0	0	0	16
1645 - 1700	0	1	2	0	3	0	2	2	0	4	0	2	0	0	2	0	0	0	0	0	9
Hourly Total	2	3	5	0	**10**	5	8	6	0	**19**	4	4	1	0	**9**	0	0	3	0	**3**	**41**
1700 - 1715	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	5	1	1	0	7	10
1715 - 1730	0	0	2	0	2	0	2	0	0	2	0	0	0	0	0	1	0	1	0	2	6
1730 - 1745	0	0	2	0	2	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	4
1745 - 1800	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
Hourly Total	0	0	5	0	**5**	0	4	2	0	**6**	0	0	0	0	**0**	6	2	3	0	**11**	**22**
Grand Total	5	13	18	0	**36**	25	22	13	0	**60**	8	17	5	0	**30**	10	9	20	0	**39**	**165**
Approach %	13.89	36.11	50.00	0.00	-	41.67	36.67	21.67	0.00	-	26.67	56.67	16.67	0.00	-	25.64	23.08	51.28	0.00	-	
Intersection %	3.03	7.88	10.91	0.00	21.82	15.15	13.33	7.88	0.00	36.36	4.85	10.30	3.03	0.00	18.18	6.06	5.45	12.12	0.00	23.64	

Crosswalk Counts || Pedestrians

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-22-2025)
Pedestrians

	Northbound (Buckner Ln (South))			Southbound (Buckner Ln (North))			Eastbound (Buckner Rd)			Westbound (June Lake Blvd)			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-22-2025)
Pedestrians

	Northbound (Buckner Ln (South))			Southbound (Buckner Ln (North))			Eastbound (Buckner Rd)			Westbound (June Lake Blvd)			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	1	1	0	0	0	0	0	0	1
1645 - 1700	0	0	0	2	0	2	0	0	0	0	0	0	2
Hourly Total	0	0	**0**	2	1	**3**	0	0	**0**	0	0	**0**	**3**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	2	1	**3**	0	0	**0**	0	0	**0**	**3**
Approach %	0.00	0.00	-	66.67	33.33	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	66.67	33.33	100.00	0.00	0.00	0.00	0.00	0.00	0.00	

Crosswalk Counts || Bicycles

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-22-2025)
Bicycles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-22-2025)
Bicycles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Crosswalk Counts || Motorized Vehicles

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Tuesday, April 22, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
67°F
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0600 - 0900 (Weekday 3h Session) (04-22-2025)
Motorized Vehicles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-22-2025)
Motorized Vehicles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Start Date: 4/22/2025	Buckner Rd Eastbound			June Lake Blvd Westbound			Buckner Ln (South) Northbound			Buckner Ln (North) Southbound			
Time	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Total
15 Minute Totals													
12:00 AM - 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM - 12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM - 12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM - 01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 AM - 01:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 AM - 01:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 AM - 01:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 AM - 02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 AM - 02:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 AM - 02:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 AM - 02:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 AM - 03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM - 03:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 AM - 03:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 AM - 03:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 AM - 04:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM - 04:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 AM - 04:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 AM - 04:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 AM - 05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 AM - 05:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 AM - 05:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 AM - 05:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 AM - 06:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 AM - 06:15 AM	7	91	4	11	8	3	1	34	126	7	6	3	301
06:15 AM - 06:30 AM	22	78	4	14	9	8	3	45	185	8	10	2	388
06:30 AM - 06:45 AM	31	111	1	20	12	24	5	63	217	22	7	6	519
06:45 AM - 07:00 AM	45	120	4	48	16	34	8	72	203	29	9	7	595
07:00 AM - 07:15 AM	69	140	4	34	18	24	2	57	132	11	29	6	526
07:15 AM - 07:30 AM	59	122	3	61	24	17	9	41	98	20	87	10	551
07:30 AM - 07:45 AM	19	108	1	26	28	21	22	46	114	30	54	39	508
07:45 AM - 08:00 AM	41	112	5	21	21	6	21	46	180	25	7	10	495
08:00 AM - 08:15 AM	31	100	7	29	27	19	8	46	153	7	19	15	461
08:15 AM - 08:30 AM	29	109	7	17	35	16	9	48	176	10	21	9	486
08:30 AM - 08:45 AM	19	97	7	31	25	11	7	34	162	25	26	24	468
08:45 AM - 09:00 AM	20	94	8	32	24	16	9	40	129	23	31	11	437
09:00 AM - 09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 AM - 09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 AM - 09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 AM - 10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM - 10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM - 10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM - 10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM - 11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM - 11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM - 11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM - 11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM - 12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM - 12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM - 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM - 12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM - 01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM - 01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM - 01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM - 01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM - 02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM - 02:15 PM	16	37	13	51	57	9	18	26	40	12	24	25	328
02:15 PM - 02:30 PM	9	41	14	43	45	18	7	15	45	12	22	17	288
02:30 PM - 02:45 PM	19	54	12	67	75	23	5	22	43	15	30	25	390
02:45 PM - 03:00 PM	15	58	13	54	64	14	18	40	56	22	83	64	501
03:00 PM - 03:15 PM	16	54	8	55	65	8	31	61	87	23	72	118	598
03:15 PM - 03:30 PM	19	52	6	46	76	7	34	39	67	19	94	126	585
03:30 PM - 03:45 PM	24	69	19	40	67	10	14	29	59	20	112	92	555
03:45 PM - 04:00 PM	9	38	15	47	59	13	18	24	55	23	129	86	516
04:00 PM - 04:15 PM	11	71	14	40	56	18	14	31	70	26	166	108	625
04:15 PM - 04:30 PM	18	56	25	57	60	12	20	33	52	25	141	104	603
04:30 PM - 04:45 PM	14	59	19	45	49	10	20	37	91	42	137	103	626
04:45 PM - 05:00 PM	19	62	17	51	60	12	18	36	65	18	167	134	659
05:00 PM - 05:15 PM	15	71	10	51	58	19	28	37	85	43	133	119	669
05:15 PM - 05:30 PM	16	82	32	43	52	13	12	35	52	22	117	119	595
05:30 PM - 05:45 PM	16	53	18	41	51	7	11	33	80	28	147	98	583
05:45 PM - 06:00 PM	16	49	20	55	53	9	24	46	68	19	129	100	588
06:00 PM - 06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM - 06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM - 06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM - 07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 PM - 07:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM - 07:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 PM - 07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 PM - 08:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 PM - 08:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 PM - 08:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 PM - 08:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 PM - 09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM - 09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 PM - 09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM - 09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM - 10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM - 10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM - 10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM - 10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM - 11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM - 11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM - 11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM - 11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM - 12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0

Peak Hour Turning Movement Count
Spring Hill, TN
Click here for Map
Marr Traffic DATA COLLECTION
www.marrtraffic.com
Buckner Ln (North)
Southbound
Wednesday, April 23, 2025
Mostly Cloudy
68°F
Period
0600 - 0900
APPLY
Peak Hour
0630 - 0730
APPLY
Global PH
0630 - 0730
APPLY
* the Peak Hour Diagram does not include bicycles
Session Parameters
(Drop Down Menu)
Peak Hour
Volume
Buckner Rd
Eastbound
June Lake Blvd
Westbound
Classes
Volume
PHF
ADT (Calc)
Total
Northbound
Buckner Ln (South)

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	4	80	206	-	0	290	13	6	9	-	0	28	40	130	8	-	0	178	11	12	16	-	0	39	535
0645 - 0700	5	60	220	-	0	285	20	12	7	-	0	39	60	118	3	-	0	181	35	8	42	-	0	85	590
0700 - 0715	7	57	163	-	0	227	24	34	2	-	0	60	51	114	5	-	0	170	39	19	17	-	0	75	532
0715 - 0730	7	35	102	-	0	144	20	84	15	-	0	119	39	85	4	-	0	128	56	26	18	-	0	100	491
Total	23	232	691	0	0	946	77	136	33	0	0	246	190	447	20	0	0	657	141	65	93	0	0	299	2148
Approach %	2.43	24.52	73.04	0.00	0.00	-	31.30	55.28	13.41	0.00	0.00	-	28.92	68.04	3.04	0.00	0.00	-	47.16	21.74	31.10	0.00	0.00		
PHF	0.82	0.73	0.79	0.00	0.00	**0.82**	0.80	0.40	0.55	0.00	0.00	**0.52**	0.79	0.86	0.63	0.00	0.00	**0.91**	0.63	0.63	0.55	0.00	0.00	**0.75**	**0.91**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	4	79	206	-	0	289	13	6	8	-	0	27	39	130	7	-	0	176	10	12	14	-	0	36	528
0645 - 0700	5	60	219	-	0	284	19	10	4	-	0	33	59	117	3	-	0	179	32	8	37	-	0	77	573
0700 - 0715	6	53	162	-	0	221	24	31	2	-	0	57	51	113	5	-	0	169	38	18	14	-	0	70	517
0715 - 0730	7	33	101	-	0	141	19	83	15	-	0	117	38	85	4	-	0	127	53	17	16	-	0	86	471
Total	22	225	688	0	0	935	75	130	29	0	0	234	187	445	19	0	0	651	133	55	81	0	0	269	2089
Approach %	2.35	24.06	73.58	0.00	0.00	-	32.05	55.56	12.39	0.00	0.00	-	28.73	68.36	2.92	0.00	0.00	-	49.44	20.45	30.11	0.00	0.00		
PHF	0.79	0.71	0.79	0.00	0.00	**0.81**	0.78	0.39	0.48	0.00	0.00	**0.50**	0.79	0.86	0.68	0.00	0.00	**0.91**	0.63	0.76	0.55	0.00	0.00	**0.78**	**0.91**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	1	0	-	0	1	0	0	1	-	0	1	1	0	1	-	0	2	0	0	2	-	0	2	6
0645 - 0700	0	0	1	-	0	1	1	2	2	-	0	5	1	1	0	-	0	2	3	0	4	-	0	7	15
0700 - 0715	1	4	1	-	0	6	0	3	0	-	0	3	0	1	0	-	0	1	0	1	3	-	0	4	14
0715 - 0730	0	1	1	-	0	2	0	0	0	-	0	0	1	0	0	-	0	1	3	7	0	-	0	10	13
Total	1	6	3	0	0	10	1	5	3	0	0	9	3	2	1	0	0	6	6	8	9	0	0	23	48
Approach %	10.00	60.00	30.00	0.00	0.00	-	11.11	55.56	33.33	0.00	0.00	-	50.00	33.33	16.67	0.00	0.00	-	26.09	34.78	39.13	0.00	0.00	-	
PHF	0.25	0.38	0.75	0.00	0.00	**0.42**	0.25	0.42	0.38	0.00	0.00	**0.45**	0.75	0.50	0.25	0.00	0.00	**0.75**	0.50	0.29	0.56	0.00	0.00	**0.58**	**0.80**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	0	1	1
0645 - 0700	0	0	0	-	0	0	0	0	1	-	0	1	0	0	0	-	0	0	0	0	1	-	0	1	2
0700 - 0715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	0	1	1
0715 - 0730	0	1	0	-	0	1	1	1	0	-	0	2	0	0	0	-	0	0	0	2	2	-	0	4	7
Total	0	1	0	0	0	1	1	1	1	0	0	3	0	0	0	0	0	0	2	2	3	0	0	7	11
Approach %	0.00	100.00	0.00	0.00	0.00	-	33.33	33.33	33.33	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	28.57	28.57	42.86	0.00	0.00	-	
PHF	0.00	0.25	0.00	0.00	0.00	**0.25**	0.25	0.25	0.25	0.00	0.00	**0.38**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.50	0.25	0.38	0.00	0.00	**0.44**	**0.39**

Bicycles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0645 - 0700	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0700 - 0715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0715 - 0730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Peak Hour Turning Movement Count
Spring Hill, TN
Click here for Map
Marr Traffic DATA COLLECTION
www.marrtraffic.com
Wednesday, April 23, 2025
Mostly Cloudy
68°F
Period
1400 - 1800
APPLY
Peak Hour
1615 - 1715
APPLY
Global PH
1615 - 1715
APPLY
* the Peak Hour Diagram does not include bicycles
Buckner Ln (North)
Southbound
Session Parameters
(Drop Down Menu)
Peak Hour
Volume
Buckner Rd
Eastbound
June Lake Blvd
Westbound
Classes
Volume
PHF
ADT (Calc)
Total
Buckner Ln (South)
Northbound

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	15	51	72	-	0	138	28	138	111	-	0	277	22	84	9	-	0	115	44	67	15	-	0	126	656
1630 - 1645	18	50	78	-	0	146	33	150	122	-	0	305	8	79	13	-	0	100	53	73	22	-	0	148	699
1645 - 1700	16	39	78	-	0	133	26	129	157	-	0	312	15	74	12	-	0	101	55	85	16	-	0	156	702
1700 - 1715	8	20	75	-	0	103	32	124	105	-	0	261	18	61	12	-	0	91	85	66	11	-	0	162	617
Total	57	160	303	0	0	520	119	541	495	0	0	1155	63	298	46	0	0	407	237	291	64	0	0	592	2674
Approach %	10.96	30.77	58.27	0.00	0.00	-	10.30	46.84	42.86	0.00	0.00		15.48	73.22	11.30	0.00	0.00	-	40.03	49.16	10.81	0.00	0.00		
PHF	0.79	0.78	0.97	0.00	0.00	**0.89**	0.90	0.90	0.79	0.00	0.00	**0.93**	0.72	0.89	0.88	0.00	0.00	**0.88**	0.70	0.86	0.73	0.00	0.00	**0.91**	**0.95**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	13	50	70	-	0	133	28	136	108	-	0	272	21	81	9	-	0	111	44	66	15	-	0	125	641
1630 - 1645	18	48	75	-	0	141	32	145	122	-	0	299	7	78	13	-	0	98	53	73	22	-	0	148	686
1645 - 1700	16	39	77	-	0	132	24	126	154	-	0	304	15	73	12	-	0	100	54	84	16	-	0	154	690
1700 - 1715	7	20	72	-	0	99	31	120	104	-	0	255	18	61	12	-	0	91	83	66	10	-	0	159	604
Total	54	157	294	0	0	505	115	527	488	0	0	1130	61	293	46	0	0	400	234	289	63	0	0	586	2621
Approach %	10.69	31.09	58.22	0.00	0.00	-	10.18	46.64	43.19	0.00	0.00	-	15.25	73.25	11.50	0.00	0.00	-	39.93	49.32	10.75	0.00	0.00	-	
PHF	0.75	0.79	0.95	0.00	0.00	**0.90**	0.90	0.91	0.79	0.00	0.00	**0.93**	0.73	0.90	0.88	0.00	0.00	**0.90**	0.70	0.86	0.72	0.00	0.00	**0.92**	**0.95**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	2	1	1	-	0	4	0	2	3	-	0	5	1	3	0	-	0	4	0	1	0	-	0	1	14
1630 - 1645	0	2	3	-	0	5	0	5	0	-	0	5	1	1	0	-	0	2	0	0	0	-	0	0	12
1645 - 1700	0	0	1	-	0	1	1	3	3	-	0	7	0	1	0	-	0	1	1	1	0	-	0	2	11
1700 - 1715	1	0	3	-	0	4	1	3	1	-	0	5	0	0	0	-	0	0	2	0	1	-	0	3	12
Total	3	3	8	0	0	14	2	13	7	0	0	22	2	5	0	0	0	7	3	2	1	0	0	6	49
Approach %	21.43	21.43	57.14	0.00	0.00	-	9.09	59.09	31.82	0.00	0.00	-	28.57	71.43	0.00	0.00	0.00	-	50.00	33.33	16.67	0.00	0.00	-	
PHF	0.38	0.38	0.67	0.00	0.00	**0.70**	0.50	0.65	0.58	0.00	0.00	**0.79**	0.50	0.42	0.00	0.00	0.00	**0.44**	0.38	0.50	0.25	0.00	0.00	**0.50**	**0.88**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	0	0	1	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1
1630 - 1645	0	0	0	-	0	0	1	0	0	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	1
1645 - 1700	0	0	0	-	0	0	1	0	0	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	1
1700 - 1715	0	0	0	-	0	0	0	1	0	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	1
Total	0	0	1	0	0	1	2	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	4
Approach %	0.00	0.00	100.00	0.00	0.00	-	66.67	33.33	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.25	0.00	0.00	**0.25**	0.50	0.25	0.00	0.00	0.00	**0.75**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**1.00**

Bicycles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1630 - 1645	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1645 - 1700	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Classified Turn Movement Count || All vehicles

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Wednesday, April 23, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-23-2025)
All vehicles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	2	25	144	0	171	6	4	2	0	12	13	71	4	0	88	13	12	7	0	32	303
0615 - 0630	3	47	196	0	246	10	8	4	0	22	15	100	3	0	118	21	12	13	0	46	432
0630 - 0645	4	80	206	0	290	13	6	9	0	28	40	130	8	0	178	11	12	16	0	39	535
0645 - 0700	5	60	220	0	285	20	12	7	0	39	60	118	3	0	181	35	8	42	0	85	590
Hourly Total	14	212	766	0	**992**	49	30	22	0	**101**	128	419	18	0	**565**	80	44	78	0	**202**	**1860**
0700 - 0715	7	57	163	0	227	24	34	2	0	60	51	114	5	0	170	39	19	17	0	75	532
0715 - 0730	7	35	102	0	144	20	84	15	0	119	39	85	4	0	128	56	26	18	0	100	491
0730 - 0745	15	43	112	0	170	34	71	44	0	149	18	104	3	0	125	23	37	19	0	79	523
0745 - 0800	21	32	145	0	198	16	7	11	0	34	25	112	4	0	141	40	25	10	0	75	448
Hourly Total	50	167	522	0	**739**	94	196	72	0	**362**	133	415	16	0	**564**	158	107	64	0	**329**	**1994**
0800 - 0815	15	50	176	0	241	16	7	11	0	34	18	110	5	0	133	34	30	11	0	75	483
0815 - 0830	10	41	177	0	228	18	14	16	0	48	33	105	0	0	138	26	27	16	0	69	483
0830 - 0845	11	53	184	0	248	23	28	19	0	70	27	93	8	0	128	31	32	17	0	80	526
0845 - 0900	5	43	138	0	186	25	16	8	0	49	17	82	13	0	112	42	31	13	0	86	433
Hourly Total	41	187	675	0	**903**	82	65	54	0	**201**	95	390	26	0	**511**	133	120	57	0	**310**	**1925**
Grand Total	105	566	1963	0	**2634**	225	291	148	0	**664**	356	1224	60	0	**1640**	371	271	199	0	**841**	**5779**
Approach %	3.99	21.49	74.53	0.00	-	33.89	43.83	22.29	0.00	-	21.71	74.63	3.66	0.00	-	44.11	32.22	23.66	0.00	-	
Intersection %	1.82	9.79	33.97	0.00	45.58	3.89	5.04	2.56	0.00	11.49	6.16	21.18	1.04	0.00	28.38	6.42	4.69	3.44	0.00	14.55	
Heavy Vehicle %	7	3	1	-	**2**	7	6	7	-	**6**	1	2	8	-	**2**	8	10	15	-	**10**	**4**
PHF	0.82	0.73	0.79	0.00	**0.82**	0.80	0.40	0.55	0.00	**0.52**	0.79	0.86	0.63	0.00	**0.91**	0.63	0.63	0.55	0.00	**0.75**	**0.91**
Peak Hour Total	23	232	691	0	**946**	77	136	33	0	**246**	190	447	20	0	**657**	141	65	93	0	**299**	**2148**
Peak Hour HV %	4	3	0	0	**1**	3	4	12	0	**5**	2	0	5	0	**1**	6	15	13	0	**10**	**3**

1400 - 1800 (Weekday 4h Session) (04-23-2025)
All vehicles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	14	37	65	0	116	21	26	22	0	69	10	44	13	0	67	57	59	10	0	126	378
1415 - 1430	31	35	43	0	109	9	28	22	0	59	16	40	8	0	64	59	61	14	0	134	366
1430 - 1445	15	24	43	0	82	16	48	31	0	95	14	42	13	0	69	55	74	16	0	145	391
1445 - 1500	12	34	66	0	112	18	80	63	0	161	9	48	16	0	73	48	85	11	0	144	490
Hourly Total	72	130	217	0	**419**	64	182	138	0	**384**	49	174	50	0	**273**	219	279	51	0	**549**	**1625**
1500 - 1515	24	71	82	0	177	40	80	137	0	257	16	62	11	0	89	33	73	14	0	120	643
1515 - 1530	41	39	89	0	169	35	92	143	0	270	17	56	12	0	85	35	49	12	0	96	620
1530 - 1545	14	26	50	0	90	26	108	99	0	233	17	76	13	0	106	42	64	10	0	116	545
1545 - 1600	12	24	58	0	94	19	113	120	0	252	10	53	13	0	76	31	54	9	0	94	516
Hourly Total	91	160	279	0	**530**	120	393	499	0	**1012**	60	247	49	0	**356**	141	240	45	0	**426**	**2324**
1600 - 1615	16	29	55	0	100	28	146	117	0	291	16	48	11	0	75	48	51	17	0	116	582
1615 - 1630	15	51	72	0	138	28	138	111	0	277	22	84	9	0	115	44	67	15	0	126	656
1630 - 1645	18	50	78	0	146	33	150	122	0	305	8	79	13	0	100	53	73	22	0	148	699
1645 - 1700	16	39	78	0	133	26	129	157	0	312	15	74	12	0	101	55	85	16	0	156	702
Hourly Total	65	169	283	0	**517**	115	563	507	0	**1185**	61	285	45	0	**391**	200	276	70	0	**546**	**2639**
1700 - 1715	8	20	75	0	103	32	124	105	0	261	18	61	12	0	91	85	66	11	0	162	617
1715 - 1730	27	24	75	0	126	28	138	115	0	281	20	68	20	0	108	57	62	15	0	134	649
1730 - 1745	20	45	103	0	168	26	131	116	0	273	13	70	14	0	97	53	57	18	0	128	666
1745 - 1800	9	30	62	0	101	23	146	112	0	281	18	64	19	0	101	44	62	12	0	118	601
Hourly Total	64	119	315	0	**498**	109	539	448	0	**1096**	69	263	65	0	**397**	239	247	56	0	**542**	**2533**
Grand Total	292	578	1094	0	**1964**	408	1677	1592	0	**3677**	239	969	209	0	**1417**	799	1042	222	0	**2063**	**9121**
Approach %	14.87	29.43	55.70	0.00	-	11.10	45.61	43.30	0.00	-	16.87	68.38	14.75	0.00	-	38.73	50.51	10.76	0.00	-	
Intersection %	3.20	6.34	11.99	0.00	21.53	4.47	18.39	17.45	0.00	40.31	2.62	10.62	2.29	0.00	15.54	8.76	11.42	2.43	0.00	22.62	
Heavy Vehicle %	2	3	2	-	**3**	3	2	1	-	**2**	3	2	1	-	**2**	1	2	3	-	**2**	**2**
PHF	0.79	0.78	0.97	0.00	**0.89**	0.90	0.90	0.79	0.00	**0.93**	0.72	0.89	0.88	0.00	**0.88**	0.70	0.86	0.73	0.00	**0.91**	**0.95**
Peak Hour Total	57	160	303	0	**520**	119	541	495	0	**1155**	63	298	46	0	**407**	237	291	64	0	**592**	**2674**
Peak Hour HV %	5	2	3	0	**3**	3	3	1	0	**2**	3	2	0	0	**2**	1	1	2	0	**1**	**2**

Classified Turn Movement Count || Passenger Vehicles (1-3)

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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Wednesday, April 23, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-23-2025)
Passenger Vehicles (1-3)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	1	24	142	0	167	6	4	2	0	12	13	71	4	0	88	10	12	7	0	29	296
0615 - 0630	3	45	193	0	241	9	7	4	0	20	15	98	3	0	116	21	12	12	0	45	422
0630 - 0645	4	79	206	0	289	13	6	8	0	27	39	130	7	0	176	10	12	14	0	36	528
0645 - 0700	5	60	219	0	284	19	10	4	0	33	59	117	3	0	179	32	8	37	0	77	573
Hourly Total	13	208	760	0	**981**	47	27	18	0	**92**	126	416	17	0	**559**	73	44	70	0	**187**	**1819**
0700 - 0715	6	53	162	0	221	24	31	2	0	57	51	113	5	0	169	38	18	14	0	70	517
0715 - 0730	7	33	101	0	141	19	83	15	0	117	38	85	4	0	127	53	17	16	0	86	471
0730 - 0745	14	41	109	0	164	31	70	41	0	142	18	102	3	0	123	20	28	16	0	64	493
0745 - 0800	21	32	141	0	194	16	6	10	0	32	25	112	4	0	141	38	24	9	0	71	438
Hourly Total	48	159	513	0	**720**	90	190	68	0	**348**	132	412	16	0	**560**	149	87	55	0	**291**	**1919**
0800 - 0815	14	49	175	0	238	12	7	9	0	28	18	108	4	0	130	32	30	8	0	70	466
0815 - 0830	8	40	174	0	222	17	12	16	0	45	33	102	0	0	135	25	22	10	0	57	459
0830 - 0845	10	51	182	0	243	21	24	19	0	64	27	86	6	0	119	28	31	15	0	74	500
0845 - 0900	5	42	136	0	183	23	13	8	0	44	16	79	12	0	107	35	29	11	0	75	409
Hourly Total	37	182	667	0	**886**	73	56	52	0	**181**	94	375	22	0	**491**	120	112	44	0	**276**	**1834**
Grand Total	98	549	1940	0	**2587**	210	273	138	0	**621**	352	1203	55	0	**1610**	342	243	169	0	**754**	**5572**
Approach %	3.79	21.22	74.99	0.00	-	33.82	43.96	22.22	0.00	-	21.86	74.72	3.42	0.00	-	45.36	32.23	22.41	0.00	-	
Intersection %	1.76	9.85	34.82	0.00	46.43	3.77	4.90	2.48	0.00	11.15	6.32	21.59	0.99	0.00	28.89	6.14	4.36	3.03	0.00	13.53	

1400 - 1800 (Weekday 4h Session) (04-23-2025)
Passenger Vehicles (1-3)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	14	33	61	0	108	20	26	21	0	67	10	42	12	0	64	57	57	10	0	124	363
1415 - 1430	31	34	43	0	108	8	25	22	0	55	15	39	8	0	62	59	61	13	0	133	358
1430 - 1445	15	23	42	0	80	16	47	31	0	94	14	41	13	0	68	53	70	15	0	138	380
1445 - 1500	11	34	65	0	110	18	80	62	0	160	8	47	16	0	71	45	84	11	0	140	481
Hourly Total	71	124	211	0	**406**	62	178	136	0	**376**	47	169	49	0	**265**	214	272	49	0	**535**	**1582**
1500 - 1515	23	67	80	0	170	37	78	137	0	252	15	59	11	0	85	33	71	13	0	117	624
1515 - 1530	41	37	86	0	164	34	90	140	0	264	16	54	12	0	82	35	46	12	0	93	603
1530 - 1545	14	25	49	0	88	24	107	97	0	228	17	74	13	0	104	42	60	9	0	111	531
1545 - 1600	12	24	58	0	94	18	112	120	0	250	10	51	13	0	74	31	52	9	0	92	510
Hourly Total	90	153	273	0	**516**	113	387	494	0	**994**	58	238	49	0	**345**	141	229	43	0	**413**	**2268**
1600 - 1615	16	28	54	0	98	28	145	116	0	289	15	47	10	0	72	48	51	16	0	115	574
1615 - 1630	13	50	70	0	133	28	136	108	0	272	21	81	9	0	111	44	66	15	0	125	641
1630 - 1645	18	48	75	0	141	32	145	122	0	299	7	78	13	0	98	53	73	22	0	148	686
1645 - 1700	16	39	77	0	132	24	126	154	0	304	15	73	12	0	100	54	84	16	0	154	690
Hourly Total	63	165	276	0	**504**	112	552	500	0	**1164**	58	279	44	0	**381**	199	274	69	0	**542**	**2591**
1700 - 1715	7	20	72	0	99	31	120	104	0	255	18	61	12	0	91	83	66	10	0	159	604
1715 - 1730	27	23	74	0	124	28	137	115	0	280	20	66	20	0	106	57	62	15	0	134	644
1730 - 1745	20	45	99	0	164	26	130	116	0	272	13	68	14	0	95	53	57	18	0	128	659
1745 - 1800	9	30	62	0	101	23	144	112	0	279	18	64	19	0	101	44	62	12	0	118	599
Hourly Total	63	118	307	0	**488**	108	531	447	0	**1086**	69	259	65	0	**393**	237	247	55	0	**539**	**2506**
Grand Total	287	560	1067	0	**1914**	395	1648	1577	0	**3620**	232	945	207	0	**1384**	791	1022	216	0	**2029**	**8947**
Approach %	14.99	29.26	55.75	0.00	-	10.91	45.52	43.56	0.00	-	16.76	68.28	14.96	0.00	-	38.98	50.37	10.65	0.00	-	
Intersection %	3.21	6.26	11.93	0.00	21.39	4.41	18.42	17.63	0.00	40.46	2.59	10.56	2.31	0.00	15.47	8.84	11.42	2.41	0.00	22.68	

Classified Turn Movement Count || Single Unit Trucks (4-7)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
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Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
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Lat/Long
35.780066°, -86.879023°
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Weather
Mostly Cloudy
68°F
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0600 - 0900 (Weekday 3h Session) (04-23-2025)
Single Unit Trucks (4-7)

	Northbound					Southbound					Eastbound					Westbound					
	Buckner Ln (South)					Buckner Ln (North)					Buckner Rd					June Lake Blvd					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	1	1	2	0	4	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	7
0615 - 0630	0	2	3	0	5	1	1	0	0	2	0	1	0	0	1	0	0	1	0	1	9
0630 - 0645	0	1	0	0	1	0	0	1	0	1	1	0	1	0	2	0	0	2	0	2	6
0645 - 0700	0	0	1	0	1	1	2	2	0	5	1	1	0	0	2	3	0	4	0	7	15
Hourly Total	1	4	6	0	**11**	2	3	3	0	**8**	2	2	1	0	**5**	6	0	7	0	**13**	**37**
0700 - 0715	1	4	1	0	6	0	3	0	0	3	0	1	0	0	1	0	1	3	0	4	14
0715 - 0730	0	1	1	0	2	0	0	0	0	0	1	0	0	0	1	3	7	0	0	10	13
0730 - 0745	1	2	3	0	6	3	1	3	0	7	0	1	0	0	1	3	8	1	0	12	26
0745 - 0800	0	0	3	0	3	0	1	1	0	2	0	0	0	0	0	1	1	0	0	2	7
Hourly Total	2	7	8	0	**17**	3	5	4	0	**12**	1	2	0	0	**3**	7	17	4	0	**28**	**60**
0800 - 0815	1	0	1	0	2	4	0	2	0	6	0	1	1	0	2	2	0	2	0	4	14
0815 - 0830	2	0	2	0	4	0	2	0	0	2	0	3	0	0	3	1	4	5	0	10	19
0830 - 0845	1	1	2	0	4	2	4	0	0	6	0	7	2	0	9	3	1	1	0	5	24
0845 - 0900	0	1	2	0	3	2	2	0	0	4	1	3	1	0	5	6	2	2	0	10	22
Hourly Total	4	2	7	0	**13**	8	8	2	0	**18**	1	14	4	0	**19**	12	7	10	0	**29**	**79**
Grand Total	7	13	21	0	**41**	13	16	9	0	**38**	4	18	5	0	**27**	25	24	21	0	**70**	**176**
Approach %	17.07	31.71	51.22	0.00	-	34.21	42.11	23.68	0.00	-	14.81	66.67	18.52	0.00	-	35.71	34.29	30.00	0.00	-	
Intersection %	3.98	7.39	11.93	0.00	23.30	7.39	9.09	5.11	0.00	21.59	2.27	10.23	2.84	0.00	15.34	14.20	13.64	11.93	0.00	39.77	

1400 - 1800 (Weekday 4h Session) (04-23-2025)
Single Unit Trucks (4-7)

	Northbound					Southbound					Eastbound					Westbound					
	Buckner Ln (South)					Buckner Ln (North)					Buckner Rd					June Lake Blvd					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	4	3	0	7	1	0	0	0	1	0	2	1	0	3	0	2	0	0	2	13
1415 - 1430	0	1	0	0	1	1	3	0	0	4	1	1	0	0	2	0	0	0	0	0	7
1430 - 1445	0	1	1	0	2	0	1	0	0	1	0	1	0	0	1	2	2	1	0	5	9
1445 - 1500	1	0	1	0	2	0	0	1	0	1	1	1	0	0	2	3	1	0	0	4	9
Hourly Total	1	6	5	0	**12**	2	4	1	0	**7**	2	5	1	0	**8**	5	5	1	0	**11**	**38**
1500 - 1515	1	4	2	0	7	2	2	0	0	4	1	3	0	0	4	0	2	0	0	2	17
1515 - 1530	0	0	3	0	3	1	2	3	0	6	1	2	0	0	3	0	3	0	0	3	15
1530 - 1545	0	1	0	0	1	2	1	2	0	5	0	2	0	0	2	0	4	1	0	5	13
1545 - 1600	0	0	0	0	0	1	1	0	0	2	0	2	0	0	2	0	2	0	0	2	6
Hourly Total	1	5	5	0	**11**	6	6	5	0	**17**	2	9	0	0	**11**	0	11	1	0	**12**	**51**
1600 - 1615	0	1	1	0	2	0	1	1	0	2	1	1	1	0	3	0	0	1	0	1	8
1615 - 1630	2	1	1	0	4	0	2	3	0	5	1	3	0	0	4	0	1	0	0	1	14
1630 - 1645	0	2	3	0	5	0	5	0	0	5	1	1	0	0	2	0	0	0	0	0	12
1645 - 1700	0	0	1	0	1	1	3	3	0	7	0	1	0	0	1	1	1	0	0	2	11
Hourly Total	2	4	6	0	**12**	1	11	7	0	**19**	3	6	1	0	**10**	1	2	1	0	**4**	**45**
1700 - 1715	1	0	3	0	4	1	3	1	0	5	0	0	0	0	0	2	0	1	0	3	12
1715 - 1730	0	1	1	0	2	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	5
1730 - 1745	0	0	3	0	3	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	6
1745 - 1800	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	1	1	7	0	**9**	1	7	1	0	**9**	0	4	0	0	**4**	2	0	1	0	**3**	**25**
Grand Total	5	16	23	0	**44**	10	28	14	0	**52**	7	24	2	0	**33**	8	18	4	0	**30**	**159**
Approach %	11.36	36.36	52.27	0.00	-	19.23	53.85	26.92	0.00	-	21.21	72.73	6.06	0.00	-	26.67	60.00	13.33	0.00	-	
Intersection %	3.14	10.06	14.47	0.00	27.67	6.29	17.61	8.81	0.00	32.70	4.40	15.09	1.26	0.00	20.75	5.03	11.32	2.52	0.00	18.87	

Classified Turn Movement Count || Combination Trucks (8-13)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Wednesday, April 23, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
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0600 - 0900 (Weekday 3h Session) (04-23-2025)
Combination Trucks (8-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
0645 - 0700	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1	2
Hourly Total	0	0	0	0	**0**	0	0	1	0	**1**	0	1	0	0	**1**	1	0	1	0	**2**	**4**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
0715 - 0730	0	1	0	0	1	1	1	0	0	2	0	0	0	0	0	0	2	2	0	4	7
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	2	0	3	4
0745 - 0800	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	3
Hourly Total	0	1	1	0	**2**	1	1	0	0	**2**	0	1	0	0	**1**	2	3	5	0	**10**	**15**
0800 - 0815	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	3
0815 - 0830	0	1	1	0	2	1	0	0	0	1	0	0	0	0	0	0	1	1	0	2	5
0830 - 0845	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
0845 - 0900	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	2
Hourly Total	0	3	1	0	**4**	1	1	0	0	**2**	0	1	0	0	**1**	1	1	3	0	**5**	**12**
Grand Total	0	4	2	0	**6**	2	2	1	0	**5**	0	3	0	0	**3**	4	4	9	0	**17**	**31**
Approach %	0.00	66.67	33.33	0.00	-	40.00	40.00	20.00	0.00	-	0.00	100.00	0.00	0.00	-	23.53	23.53	52.94	0.00	-	
Intersection %	0.00	12.90	6.45	0.00	19.35	6.45	6.45	3.23	0.00	16.13	0.00	9.68	0.00	0.00	9.68	12.90	12.90	29.03	0.00	54.84	

1400 - 1800 (Weekday 4h Session) (04-23-2025)
Combination Trucks (8-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	2	2
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	1	0	**1**	0	0	1	0	**1**	0	0	0	0	**0**	0	2	1	0	**3**	**5**
1500 - 1515	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	0	1	2
1515 - 1530	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
1530 - 1545	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	2	1	0	**3**	1	0	0	0	**1**	0	0	0	0	**0**	0	0	1	0	**1**	**5**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1630 - 1645	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
1645 - 1700	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	0	0	1	0	**1**	2	0	0	0	**2**	0	0	0	0	**0**	0	0	0	0	**0**	**3**
1700 - 1715	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	1	0	**1**	0	1	0	0	**1**	0	0	0	0	**0**	0	0	0	0	**0**	**2**
Grand Total	0	2	4	0	**6**	3	1	1	0	**5**	0	0	0	0	**0**	0	2	2	0	**4**	**15**
Approach %	0.00	33.33	66.67	0.00	-	60.00	20.00	20.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	50.00	50.00	0.00	-	
Intersection %	0.00	13.33	26.67	0.00	40.00	20.00	6.67	6.67	0.00	33.33	0.00	0.00	0.00	0.00	0.00	0.00	13.33	13.33	0.00	26.67	

Classified Turn Movement Count || Bicycles

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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
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35.780066°, -86.879023°
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0600 - 0900 (Weekday 3h Session) (04-23-2025)
Bicycles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Grand Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Approach %	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-23-2025)
Bicycles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Grand Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Approach %	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Classified Turn Movement Count || All Trucks (4-13)

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Spring Hill, TN

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Weather
Mostly Cloudy
68°F
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0600 - 0900 (Weekday 3h Session) (04-23-2025)
All Trucks (4-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	1	1	2	0	4	0	0	0	0	0	0	0	0	0	0	3	0	0	0	3	7
0615 - 0630	0	2	3	0	5	1	1	0	0	2	0	2	0	0	2	0	0	1	0	1	10
0630 - 0645	0	1	0	0	1	0	0	1	0	1	1	0	1	0	2	1	0	2	0	3	7
0645 - 0700	0	0	1	0	1	1	2	3	0	6	1	1	0	0	2	3	0	5	0	8	17
Hourly Total	1	4	6	0	**11**	2	3	4	0	**9**	2	3	1	0	**6**	7	0	8	0	**15**	**41**
0700 - 0715	1	4	1	0	6	0	3	0	0	3	0	1	0	0	1	1	1	3	0	5	15
0715 - 0730	0	2	1	0	3	1	1	0	0	2	1	0	0	0	1	3	9	2	0	14	20
0730 - 0745	1	2	3	0	6	3	1	3	0	7	0	2	0	0	2	3	9	3	0	15	30
0745 - 0800	0	0	4	0	4	0	1	1	0	2	0	0	0	0	0	2	1	1	0	4	10
Hourly Total	2	8	9	0	**19**	4	6	4	0	**14**	1	3	0	0	**4**	9	20	9	0	**38**	**75**
0800 - 0815	1	1	1	0	3	4	0	2	0	6	0	2	1	0	3	2	0	3	0	5	17
0815 - 0830	2	1	3	0	6	1	2	0	0	3	0	3	0	0	3	1	5	6	0	12	24
0830 - 0845	1	2	2	0	5	2	4	0	0	6	0	7	2	0	9	3	1	2	0	6	26
0845 - 0900	0	1	2	0	3	2	3	0	0	5	1	3	1	0	5	7	2	2	0	11	24
Hourly Total	4	5	8	0	**17**	9	9	2	0	**20**	1	15	4	0	**20**	13	8	13	0	**34**	**91**
Grand Total	7	17	23	0	**47**	15	18	10	0	**43**	4	21	5	0	**30**	29	28	30	0	**87**	**207**
Approach %	14.89	36.17	48.94	0.00	-	34.88	41.86	23.26	0.00	-	13.33	70.00	16.67	0.00	-	33.33	32.18	34.48	0.00	-	
Intersection %	3.38	8.21	11.11	0.00	22.71	7.25	8.70	4.83	0.00	20.77	1.93	10.14	2.42	0.00	14.49	14.01	13.53	14.49	0.00	42.03	

1400 - 1800 (Weekday 4h Session) (04-23-2025)
All Trucks (4-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	4	4	0	8	1	0	1	0	2	0	2	1	0	3	0	2	0	0	2	15
1415 - 1430	0	1	0	0	1	1	3	0	0	4	1	1	0	0	2	0	0	1	0	1	8
1430 - 1445	0	1	1	0	2	0	1	0	0	1	0	1	0	0	1	2	4	1	0	7	11
1445 - 1500	1	0	1	0	2	0	0	1	0	1	1	1	0	0	2	3	1	0	0	4	9
Hourly Total	1	6	6	0	**13**	2	4	2	0	**8**	2	5	1	0	**8**	5	7	2	0	**14**	**43**
1500 - 1515	1	4	2	0	7	3	2	0	0	5	1	3	0	0	4	0	2	1	0	3	19
1515 - 1530	0	2	3	0	5	1	2	3	0	6	1	2	0	0	3	0	3	0	0	3	17
1530 - 1545	0	1	1	0	2	2	1	2	0	5	0	2	0	0	2	0	4	1	0	5	14
1545 - 1600	0	0	0	0	0	1	1	0	0	2	0	2	0	0	2	0	2	0	0	2	6
Hourly Total	1	7	6	0	**14**	7	6	5	0	**18**	2	9	0	0	**11**	0	11	2	0	**13**	**56**
1600 - 1615	0	1	1	0	2	0	1	1	0	2	1	1	1	0	3	0	0	1	0	1	8
1615 - 1630	2	1	2	0	5	0	2	3	0	5	1	3	0	0	4	0	1	0	0	1	15
1630 - 1645	0	2	3	0	5	1	5	0	0	6	1	1	0	0	2	0	0	0	0	0	13
1645 - 1700	0	0	1	0	1	2	3	3	0	8	0	1	0	0	1	1	1	0	0	2	12
Hourly Total	2	4	7	0	**13**	3	11	7	0	**21**	3	6	1	0	**10**	1	2	1	0	**4**	**48**
1700 - 1715	1	0	3	0	4	1	4	1	0	6	0	0	0	0	0	2	0	1	0	3	13
1715 - 1730	0	1	1	0	2	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	5
1730 - 1745	0	0	4	0	4	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	7
1745 - 1800	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	1	1	8	0	**10**	1	8	1	0	**10**	0	4	0	0	**4**	2	0	1	0	**3**	**27**
Grand Total	5	18	27	0	**50**	13	29	15	0	**57**	7	24	2	0	**33**	8	20	6	0	**34**	**174**
Approach %	10.00	36.00	54.00	0.00	-	22.81	50.88	26.32	0.00	-	21.21	72.73	6.06	0.00	-	23.53	58.82	17.65	0.00	-	
Intersection %	2.87	10.34	15.52	0.00	28.74	7.47	16.67	8.62	0.00	32.76	4.02	13.79	1.15	0.00	18.97	4.60	11.49	3.45	0.00	19.54	

Crosswalk Counts || Pedestrians

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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Wednesday, April 23, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
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0600 - 0900 (Weekday 3h Session) (04-23-2025)
Pedestrians

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-23-2025)
Pedestrians

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Crosswalk Counts || Bicycles

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0600 - 0900 (Weekday 3h Session) (04-23-2025)
Bicycles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-23-2025)
Bicycles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Crosswalk Counts || Motorized Vehicles

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Spring Hill, TN

Site 1
Buckner Ln (South)
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Motorized Vehicles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-23-2025)
Motorized Vehicles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Start Date: 4/23/2025	Buckner Rd Eastbound			June Lake Blvd Westbound			Buckner Ln (South) Northbound			Buckner Ln (North) Southbound			
Time	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Total
15 Minute Totals													
12:00 AM - 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM - 12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM - 12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM - 01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 AM - 01:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 AM - 01:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 AM - 01:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 AM - 02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 AM - 02:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 AM - 02:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 AM - 02:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 AM - 03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM - 03:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 AM - 03:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 AM - 03:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 AM - 04:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM - 04:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 AM - 04:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 AM - 04:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 AM - 05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 AM - 05:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 AM - 05:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 AM - 05:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 AM - 06:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 AM - 06:15 AM	13	71	4	13	12	7	2	25	144	6	4	2	303
06:15 AM - 06:30 AM	15	100	3	21	12	13	3	47	196	10	8	4	432
06:30 AM - 06:45 AM	40	130	8	11	12	16	4	80	206	13	6	9	535
06:45 AM - 07:00 AM	60	118	3	35	8	42	5	60	220	20	12	7	590
07:00 AM - 07:15 AM	51	114	5	39	19	17	7	57	163	24	34	2	532
07:15 AM - 07:30 AM	39	85	4	56	26	18	7	35	102	20	84	15	491
07:30 AM - 07:45 AM	18	104	3	23	37	19	15	43	112	34	71	44	523
07:45 AM - 08:00 AM	25	112	4	40	25	10	21	32	145	16	7	11	448
08:00 AM - 08:15 AM	18	110	5	34	30	11	15	50	176	16	7	11	483
08:15 AM - 08:30 AM	33	105	0	26	27	16	10	41	177	18	14	16	483
08:30 AM - 08:45 AM	27	93	8	31	32	17	11	53	184	23	28	19	526
08:45 AM - 09:00 AM	17	82	13	42	31	13	5	43	138	25	16	8	433
09:00 AM - 09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 AM - 09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 AM - 09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 AM - 10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM - 10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM - 10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM - 10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM - 11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM - 11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM - 11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM - 11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM - 12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM - 12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM - 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM - 12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM - 01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM - 01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM - 01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM - 01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM - 02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM - 02:15 PM	10	44	13	57	59	10	14	37	65	21	26	22	378
02:15 PM - 02:30 PM	16	40	8	59	61	14	31	35	43	9	28	22	366
02:30 PM - 02:45 PM	14	42	13	55	74	16	15	24	43	16	48	31	391
02:45 PM - 03:00 PM	9	48	16	48	85	11	12	34	66	18	80	63	490
03:00 PM - 03:15 PM	16	62	11	33	73	14	24	71	82	40	80	137	643
03:15 PM - 03:30 PM	17	56	12	35	49	12	41	39	89	35	92	143	620
03:30 PM - 03:45 PM	17	76	13	42	64	10	14	26	50	26	108	99	545
03:45 PM - 04:00 PM	10	53	13	31	54	9	12	24	58	19	113	120	516
04:00 PM - 04:15 PM	16	48	11	48	51	17	16	29	55	28	146	117	582
04:15 PM - 04:30 PM	22	84	9	44	67	15	15	51	72	28	138	111	656
04:30 PM - 04:45 PM	8	79	13	53	73	22	18	50	78	33	150	122	699
04:45 PM - 05:00 PM	15	74	12	55	85	16	16	39	78	26	129	157	702
05:00 PM - 05:15 PM	18	61	12	85	66	11	8	20	75	32	124	105	617
05:15 PM - 05:30 PM	20	68	20	57	62	15	27	24	75	28	138	115	649
05:30 PM - 05:45 PM	13	70	14	53	57	18	20	45	103	26	131	116	666
05:45 PM - 06:00 PM	18	64	19	44	62	12	9	30	62	23	146	112	601
06:00 PM - 06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM - 06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM - 06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM - 07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 PM - 07:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM - 07:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 PM - 07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 PM - 08:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 PM - 08:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 PM - 08:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 PM - 08:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 PM - 09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM - 09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 PM - 09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM - 09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM - 10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM - 10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM - 10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM - 10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM - 11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM - 11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM - 11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM - 11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM - 12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0

Peak Hour Turning Movement Count
Spring Hill, TN
Click here for Map
Marr Traffic DATA COLLECTION
www.marrtraffic.com
Thursday, April 24, 2025
Mostly Cloudy
68°F
Period
0600 - 0900
APPLY
Peak Hour
0630 - 0730
APPLY
Global PH
0630 - 0730
APPLY
* the Peak Hour Diagram does not include bicycles
Buckner Ln (North)
Southbound
Session Parameters
(Drop Down Menu)
Peak Hour
Volume
Buckner Rd
Eastbound
June Lake Blvd
Westbound
Classes
Volume
PHF
ADT (Calc)
Total
Northbound
Buckner Ln (South)

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	5	64	219	-	0	288	21	8	8	-	0	37	33	113	5	-	0	151	22	18	17	-	0	57	533
0645 - 0700	5	57	204	-	0	266	18	14	5	-	0	37	53	135	3	-	0	191	28	15	36	-	0	79	573
0700 - 0715	5	51	140	-	0	196	13	34	6	-	0	53	71	123	4	-	0	198	24	25	20	-	0	69	516
0715 - 0730	8	36	99	-	0	143	28	64	15	-	0	107	44	115	3	-	0	162	59	18	12	-	0	89	501
Total	23	208	662	0	0	893	80	120	34	0	0	234	201	486	15	0	0	702	133	76	85	0	0	294	2123
Approach %	2.58	23.29	74.13	0.00	0.00	-	34.19	51.28	14.53	0.00	0.00		28.63	69.23	2.14	0.00	0.00	-	45.24	25.85	28.91	0.00	0.00		
PHF	0.72	0.81	0.76	0.00	0.00	**0.78**	0.71	0.47	0.57	0.00	0.00	**0.55**	0.71	0.90	0.75	0.00	0.00	**0.89**	0.56	0.76	0.59	0.00	0.00	**0.83**	**0.93**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	5	63	218	-	0	286	21	8	7	-	0	36	32	112	4	-	0	148	22	18	17	-	0	57	527
0645 - 0700	5	57	203	-	0	265	18	11	4	-	0	33	52	134	3	-	0	189	26	15	34	-	0	75	562
0700 - 0715	5	48	138	-	0	191	13	31	6	-	0	50	71	121	4	-	0	196	24	24	18	-	0	66	503
0715 - 0730	8	34	98	-	0	140	28	64	15	-	0	107	44	114	3	-	0	161	56	16	9	-	0	81	489
Total	23	202	657	0	0	882	80	114	32	0	0	226	199	481	14	0	0	694	128	73	78	0	0	279	2081
Approach %	2.61	22.90	74.49	0.00	0.00	-	35.40	50.44	14.16	0.00	0.00	-	28.67	69.31	2.02	0.00	0.00	-	45.88	26.16	27.96	0.00	0.00	-	
PHF	0.72	0.80	0.75	0.00	0.00	**0.77**	0.71	0.45	0.53	0.00	0.00	**0.53**	0.70	0.90	0.88	0.00	0.00	**0.89**	0.57	0.76	0.57	0.00	0.00	**0.86**	**0.93**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	1	0	-	0	1	0	0	1	-	0	1	1	1	1	-	0	3	0	0	0	-	0	0	5
0645 - 0700	0	0	1	-	0	1	0	3	1	-	0	4	1	1	0	-	0	2	1	0	2	-	0	3	10
0700 - 0715	0	3	2	-	0	5	0	3	0	-	0	3	0	2	0	-	0	2	0	0	2	-	0	2	12
0715 - 0730	0	1	1	-	0	2	0	0	0	-	0	0	0	1	0	-	0	1	3	1	3	-	0	7	10
Total	0	5	4	0	0	9	0	6	2	0	0	8	2	5	1	0	0	8	4	1	7	0	0	12	37
Approach %	0.00	55.56	44.44	0.00	0.00	-	0.00	75.00	25.00	0.00	0.00	-	25.00	62.50	12.50	0.00	0.00	-	33.33	8.33	58.33	0.00	0.00	-	
PHF	0.00	0.42	0.50	0.00	0.00	**0.45**	0.00	0.50	0.50	0.00	0.00	**0.50**	0.50	0.63	0.25	0.00	0.00	**0.67**	0.33	0.25	0.58	0.00	0.00	**0.43**	**0.77**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	0	1	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1
0645 - 0700	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	0	1	1
0700 - 0715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	1	0	-	0	1	1
0715 - 0730	0	1	0	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	0	1	0	-	0	1	2
Total	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	3	5
Approach %	0.00	50.00	50.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	33.33	66.67	0.00	0.00	0.00	-	
PHF	0.00	0.25	0.25	0.00	0.00	**0.50**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.25	0.50	0.00	0.00	0.00	**0.75**	**0.63**

Bicycles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
0630 - 0645	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0645 - 0700	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0700 - 0715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
0715 - 0730	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Peak Hour Turning Movement Count
Spring Hill, TN
Click here for Map
Marr Traffic DATA COLLECTION
www.marrtraffic.com
Thursday, April 24, 2025
Mostly Cloudy
68°F
Period
1400 - 1800
APPLY
Peak Hour
1615 - 1715
APPLY
Global PH
1615 - 1715
APPLY
* the Peak Hour Diagram does not include bicycles
Buckner Ln (North)
Southbound
Session Parameters
(Drop Down Menu)
Peak Hour
Volume
Buckner Rd
Eastbound
June Lake Blvd
Westbound
Buckner Ln (South)
Northbound
Classes
Volume
PHF
ADT (Calc)
Total

All vehicles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	18	34	67	-	0	119	21	127	106	-	0	254	15	71	11	-	0	97	57	68	14	-	0	139	609
1630 - 1645	15	41	72	-	0	128	28	145	125	-	0	298	14	58	7	-	0	79	38	68	10	-	0	116	621
1645 - 1700	16	38	62	-	0	116	40	99	124	-	0	263	11	75	13	-	0	99	40	59	13	-	0	112	590
1700 - 1715	19	45	76	-	0	140	32	113	122	-	0	267	15	71	14	-	0	100	51	69	6	-	0	126	633
Total	68	158	277	0	0	503	121	484	477	0	0	1082	55	275	45	0	0	375	186	264	43	0	0	493	2453
Approach %	13.52	31.41	55.07	0.00	0.00	-	11.18	44.73	44.09	0.00	0.00	-	14.67	73.33	12.00	0.00	0.00	-	37.73	53.55	8.72	0.00	0.00	-	
PHF	0.89	0.88	0.91	0.00	0.00	**0.90**	0.76	0.83	0.95	0.00	0.00	**0.91**	0.92	0.92	0.80	0.00	0.00	**0.94**	0.82	0.96	0.77	0.00	0.00	**0.89**	**0.97**

Passenger Vehicles (1-3)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	18	33	67	-	0	118	21	125	105	-	0	251	13	70	11	-	0	94	57	68	13	-	0	138	601
1630 - 1645	15	40	70	-	0	125	27	137	123	-	0	287	14	57	7	-	0	78	37	66	9	-	0	112	602
1645 - 1700	16	36	61	-	0	113	38	99	121	-	0	258	11	75	13	-	0	99	38	59	13	-	0	110	580
1700 - 1715	19	45	76	-	0	140	32	109	122	-	0	263	14	71	14	-	0	99	49	69	6	-	0	124	626
Total	68	154	274	0	0	496	118	470	471	0	0	1059	52	273	45	0	0	370	181	262	41	0	0	484	2409
Approach %	13.71	31.05	55.24	0.00	0.00	-	11.14	44.38	44.48	0.00	0.00	-	14.05	73.78	12.16	0.00	0.00	-	37.40	54.13	8.47	0.00	0.00	-	
PHF	0.89	0.86	0.90	0.00	0.00	**0.89**	0.78	0.86	0.96	0.00	0.00	**0.92**	0.93	0.91	0.80	0.00	0.00	**0.93**	0.79	0.95	0.79	0.00	0.00	**0.88**	**0.96**

Single Unit Trucks (4-7)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	0	1	0	-	0	1	0	2	1	-	0	3	1	1	0	-	0	2	0	0	1	-	0	1	7
1630 - 1645	0	1	2	-	0	3	1	8	2	-	0	11	0	1	0	-	0	1	1	2	1	-	0	4	19
1645 - 1700	0	2	0	-	0	2	2	0	2	-	0	4	0	0	0	-	0	0	2	0	0	-	0	2	8
1700 - 1715	0	0	0	-	0	0	0	4	0	-	0	4	0	0	0	-	0	0	2	0	0	-	0	2	6
Total	0	4	2	0	0	6	3	14	5	0	0	22	1	2	0	0	0	3	5	2	2	0	0	9	40
Approach %	0.00	66.67	33.33	0.00	0.00	-	13.64	63.64	22.73	0.00	0.00	-	33.33	66.67	0.00	0.00	0.00	-	55.56	22.22	22.22	0.00	0.00	-	
PHF	0.00	0.50	0.25	0.00	0.00	**0.50**	0.38	0.44	0.63	0.00	0.00	**0.50**	0.25	0.50	0.00	0.00	0.00	**0.38**	0.63	0.25	0.50	0.00	0.00	**0.56**	**0.53**

Combination Trucks (8-13)

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	0	1	0	0	0	-	0	0	1
1630 - 1645	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1645 - 1700	0	0	1	-	0	1	0	0	1	-	0	1	0	0	0	-	0	0	0	0	0	-	0	0	2
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	1	0	0	-	0	1	0	0	0	-	0	0	1
Total	0	0	1	0	0	1	0	0	1	0	0	1	2	0	0	0	0	2	0	0	0	0	0	0	4
Approach %	0.00	0.00	100.00	0.00	0.00	-	0.00	0.00	100.00	0.00	0.00	-	100.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.25	0.00	0.00	**0.25**	0.00	0.00	0.25	0.00	0.00	**0.25**	0.50	0.00	0.00	0.00	0.00	**0.50**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.50**

Bicycles

	Northbound						Southbound						Eastbound						Westbound						
	Buckner Ln (South)						Buckner Ln (North)						Buckner Rd						June Lake Blvd						
	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Left	Thru	Right		U-Turn	App	Int
Time	1.1	1.2	1.3		1.4	Total	1.5	1.6	1.7		1.8	Total	1.9	1.10	1.11		1.12	Total	1.13	1.14	1.15		1.16	Total	Total
1615 - 1630	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1630 - 1645	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1645 - 1700	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
1700 - 1715	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0	0	0	-	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Approach %	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-	
PHF	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	0.00	0.00	0.00	0.00	0.00	**0.00**	**0.00**

Classified Turn Movement Count || All vehicles

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Thursday, April 24, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-24-2025)
All vehicles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	2	37	119	0	158	8	9	2	0	19	5	85	5	0	95	7	2	2	0	11	283
0615 - 0630	4	49	193	0	246	15	11	3	0	29	12	83	1	0	96	9	6	9	0	24	395
0630 - 0645	5	64	219	0	288	21	8	8	0	37	33	113	5	0	151	22	18	17	0	57	533
0645 - 0700	5	57	204	0	266	18	14	5	0	37	53	135	3	0	191	28	15	36	0	79	573
Hourly Total	16	207	735	0	**958**	62	42	18	0	**122**	103	416	14	0	**533**	66	41	64	0	**171**	**1784**
0700 - 0715	5	51	140	0	196	13	34	6	0	53	71	123	4	0	198	24	25	20	0	69	516
0715 - 0730	8	36	99	0	143	28	64	15	0	107	44	115	3	0	162	59	18	12	0	89	501
0730 - 0745	10	49	116	0	175	25	69	35	1	130	24	99	3	0	126	22	33	16	0	71	502
0745 - 0800	23	52	112	0	187	18	11	14	0	43	43	127	3	0	173	24	26	13	0	63	466
Hourly Total	46	188	467	0	**701**	84	178	70	1	**333**	182	464	13	0	**659**	129	102	61	0	**292**	**1985**
0800 - 0815	8	69	179	0	256	11	12	13	0	36	62	114	2	0	178	26	27	15	0	68	538
0815 - 0830	14	57	163	0	234	18	12	9	0	39	42	99	5	0	146	19	28	7	0	54	473
0830 - 0845	14	89	176	0	279	19	27	21	0	67	38	90	12	0	140	35	15	9	0	59	545
0845 - 0900	5	62	115	0	182	10	24	17	0	51	40	83	11	0	134	27	43	15	0	85	452
Hourly Total	41	277	633	0	**951**	58	75	60	0	**193**	182	386	30	0	**598**	107	113	46	0	**266**	**2008**
Grand Total	103	672	1835	0	**2610**	204	295	148	1	**648**	467	1266	57	0	**1790**	302	256	171	0	**729**	**5777**
Approach %	3.95	25.75	70.31	0.00	-	31.48	45.52	22.84	0.15	-	26.09	70.73	3.18	0.00	-	41.43	35.12	23.46	0.00	-	
Intersection %	1.78	11.63	31.76	0.00	45.18	3.53	5.11	2.56	0.02	11.22	8.08	21.91	0.99	0.00	30.98	5.23	4.43	2.96	0.00	12.62	
Heavy Vehicle %	4	3	1	-	**2**	3	8	5	0	**6**	1	1	5	-	**1**	5	3	12	-	**6**	**3**
PHF	0.72	0.81	0.76	0.00	**0.78**	0.71	0.47	0.57	0.00	**0.55**	0.71	0.90	0.75	0.00	**0.89**	0.56	0.76	0.59	0.00	**0.83**	**0.93**
Peak Hour Total	23	208	662	0	**893**	80	120	34	0	**234**	201	486	15	0	**702**	133	76	85	0	**294**	**2123**
Peak Hour HV %	0	3	1	0	**1**	0	5	6	0	**3**	1	1	7	0	**1**	4	4	8	0	**5**	**2**

1400 - 1800 (Weekday 4h Session) (04-24-2025)
All vehicles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	18	37	49	0	104	8	48	32	0	88	9	40	15	0	64	39	41	13	0	93	349
1415 - 1430	21	31	55	0	107	14	48	49	0	111	9	39	10	0	58	37	39	11	0	87	363
1430 - 1445	7	19	61	0	87	15	48	41	0	104	14	46	9	0	69	48	59	13	0	120	380
1445 - 1500	12	25	51	0	88	25	68	86	0	179	19	40	19	0	78	43	42	8	0	93	438
Hourly Total	58	112	216	0	**386**	62	212	208	0	**482**	51	165	53	0	**269**	167	181	45	0	**393**	**1530**
1500 - 1515	36	80	93	0	209	22	87	164	0	273	18	58	9	0	85	30	57	9	0	96	663
1515 - 1530	47	66	77	0	190	22	115	141	0	278	16	58	8	0	82	36	51	3	0	90	640
1530 - 1545	28	24	57	0	109	22	100	97	0	219	18	63	19	0	100	32	62	11	0	105	533
1545 - 1600	16	28	69	0	113	21	108	102	0	231	16	50	10	0	76	37	55	20	0	112	532
Hourly Total	127	198	296	0	**621**	87	410	504	0	**1001**	68	229	46	0	**343**	135	225	43	0	**403**	**2368**
1600 - 1615	14	35	60	0	109	27	98	106	0	231	8	53	14	0	75	41	53	11	0	105	520
1615 - 1630	18	34	67	0	119	21	127	106	0	254	15	71	11	0	97	57	68	14	0	139	609
1630 - 1645	15	41	72	0	128	28	145	125	0	298	14	58	7	0	79	38	68	10	0	116	621
1645 - 1700	16	38	62	0	116	40	99	124	0	263	11	75	13	0	99	40	59	13	0	112	590
Hourly Total	63	148	261	0	**472**	116	469	461	0	**1046**	48	257	45	0	**350**	176	248	48	0	**472**	**2340**
1700 - 1715	19	45	76	0	140	32	113	122	0	267	15	71	14	0	100	51	69	6	0	126	633
1715 - 1730	17	31	70	0	118	21	130	111	0	262	19	58	11	0	88	41	56	15	0	112	580
1730 - 1745	10	28	70	0	108	20	148	97	0	265	21	66	20	0	107	46	51	9	0	106	586
1745 - 1800	8	22	52	0	82	28	122	92	0	242	25	61	15	0	101	52	64	13	0	129	554
Hourly Total	54	126	268	0	**448**	101	513	422	0	**1036**	80	256	60	0	**396**	190	240	43	0	**473**	**2353**
Grand Total	302	584	1041	0	**1927**	366	1604	1595	0	**3565**	247	907	204	0	**1358**	668	894	179	0	**1741**	**8591**
Approach %	15.67	30.31	54.02	0.00	-	10.27	44.99	44.74	0.00	-	18.19	66.79	15.02	0.00	-	38.37	51.35	10.28	0.00	-	
Intersection %	3.52	6.80	12.12	0.00	22.43	4.26	18.67	18.57	0.00	41.50	2.88	10.56	2.37	0.00	15.81	7.78	10.41	2.08	0.00	20.27	
Heavy Vehicle %	1	3	2	-	**2**	3	2	1	-	**1**	3	1	1	-	**2**	2	1	4	-	**2**	**2**
PHF	0.89	0.88	0.91	0.00	**0.90**	0.76	0.83	0.95	0.00	**0.91**	0.92	0.92	0.80	0.00	**0.94**	0.82	0.96	0.77	0.00	**0.89**	**0.97**
Peak Hour Total	68	158	277	0	**503**	121	484	477	0	**1082**	55	275	45	0	**375**	186	264	43	0	**493**	**2453**
Peak Hour HV %	0	3	1	0	**1**	2	3	1	0	**2**	5	1	0	0	**1**	3	1	5	0	**2**	**2**

Classified Turn Movement Count || Passenger Vehicles (1-3)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Thursday, April 24, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-24-2025)
Passenger Vehicles (1-3)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	2	35	117	0	154	8	8	2	0	18	4	85	5	0	94	7	2	2	0	11	277
0615 - 0630	4	46	191	0	241	14	8	3	0	25	12	83	1	0	96	8	6	8	0	22	384
0630 - 0645	5	63	218	0	286	21	8	7	0	36	32	112	4	0	148	22	18	17	0	57	527
0645 - 0700	5	57	203	0	265	18	11	4	0	33	52	134	3	0	189	26	15	34	0	75	562
Hourly Total	16	201	729	0	**946**	61	35	16	0	**112**	100	414	13	0	**527**	63	41	61	0	**165**	**1750**
0700 - 0715	5	48	138	0	191	13	31	6	0	50	71	121	4	0	196	24	24	18	0	66	503
0715 - 0730	8	34	98	0	140	28	64	15	0	107	44	114	3	0	161	56	16	9	0	81	489
0730 - 0745	10	47	114	0	171	24	67	33	1	125	24	98	3	0	125	20	33	14	0	67	488
0745 - 0800	22	48	110	0	180	17	9	14	0	40	43	126	3	0	172	23	25	13	0	61	453
Hourly Total	45	177	460	0	**682**	82	171	68	1	**322**	182	459	13	0	**654**	123	98	54	0	**275**	**1933**
0800 - 0815	7	67	175	0	249	11	11	11	0	33	61	114	2	0	177	25	27	14	0	66	525
0815 - 0830	13	57	160	0	230	17	10	8	0	35	41	97	5	0	143	17	27	4	0	48	456
0830 - 0845	13	88	176	0	277	18	23	21	0	62	38	90	11	0	139	34	15	6	0	55	533
0845 - 0900	5	59	112	0	176	9	22	17	0	48	40	82	10	0	132	25	41	12	0	78	434
Hourly Total	38	271	623	0	**932**	55	66	57	0	**178**	180	383	28	0	**591**	101	110	36	0	**247**	**1948**
Grand Total	99	649	1812	0	**2560**	198	272	141	1	**612**	462	1256	54	0	**1772**	287	249	151	0	**687**	**5631**
Approach %	3.87	25.35	70.78	0.00	-	32.35	44.44	23.04	0.16	-	26.07	70.88	3.05	0.00	-	41.78	36.24	21.98	0.00	-	
Intersection %	1.76	11.53	32.18	0.00	45.46	3.52	4.83	2.50	0.02	10.87	8.20	22.31	0.96	0.00	31.47	5.10	4.42	2.68	0.00	12.20	

1400 - 1800 (Weekday 4h Session) (04-24-2025)
Passenger Vehicles (1-3)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	18	33	47	0	98	8	46	32	0	86	9	38	14	0	61	37	40	12	0	89	334
1415 - 1430	21	29	50	0	100	14	46	49	0	109	9	39	10	0	58	36	37	11	0	84	351
1430 - 1445	7	19	58	0	84	15	47	41	0	103	14	43	9	0	66	47	59	13	0	119	372
1445 - 1500	10	25	48	0	83	24	67	85	0	176	19	39	19	0	77	43	42	7	0	92	428
Hourly Total	56	106	203	0	**365**	61	206	207	0	**474**	51	159	52	0	**262**	163	178	43	0	**384**	**1485**
1500 - 1515	36	77	91	0	204	19	86	164	0	269	17	56	8	0	81	29	56	8	0	93	647
1515 - 1530	46	65	75	0	186	21	112	140	0	273	15	57	8	0	80	36	49	3	0	88	627
1530 - 1545	28	23	56	0	107	21	99	97	0	217	17	63	19	0	99	32	61	10	0	103	526
1545 - 1600	16	26	69	0	111	20	108	102	0	230	16	50	10	0	76	37	55	20	0	112	529
Hourly Total	126	191	291	0	**608**	81	405	503	0	**989**	65	226	45	0	**336**	134	221	41	0	**396**	**2329**
1600 - 1615	13	34	59	0	106	27	98	104	0	229	7	53	13	0	73	41	53	10	0	104	512
1615 - 1630	18	33	67	0	118	21	125	105	0	251	13	70	11	0	94	57	68	13	0	138	601
1630 - 1645	15	40	70	0	125	27	137	123	0	287	14	57	7	0	78	37	66	9	0	112	602
1645 - 1700	16	36	61	0	113	38	99	121	0	258	11	75	13	0	99	38	59	13	0	110	580
Hourly Total	62	143	257	0	**462**	113	459	453	0	**1025**	45	255	44	0	**344**	173	246	45	0	**464**	**2295**
1700 - 1715	19	45	76	0	140	32	109	122	0	263	14	71	14	0	99	49	69	6	0	124	626
1715 - 1730	17	31	70	0	118	21	129	110	0	260	19	57	11	0	87	40	56	15	0	111	576
1730 - 1745	10	28	67	0	105	20	147	97	0	264	21	66	20	0	107	45	51	9	0	105	581
1745 - 1800	8	22	51	0	81	28	122	92	0	242	25	61	15	0	101	52	64	13	0	129	553
Hourly Total	54	126	264	0	**444**	101	507	421	0	**1029**	79	255	60	0	**394**	186	240	43	0	**469**	**2336**
Grand Total	298	566	1015	0	**1879**	356	1577	1584	0	**3517**	240	895	201	0	**1336**	656	885	172	0	**1713**	**8445**
Approach %	15.86	30.12	54.02	0.00	-	10.12	44.84	45.04	0.00	-	17.96	66.99	15.04	0.00	-	38.30	51.66	10.04	0.00	-	
Intersection %	3.53	6.70	12.02	0.00	22.25	4.22	18.67	18.76	0.00	41.65	2.84	10.60	2.38	0.00	15.82	7.77	10.48	2.04	0.00	20.28	

Classified Turn Movement Count || Single Unit Trucks (4-7)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Thursday, April 24, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
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0600 - 0900 (Weekday 3h Session) (04-24-2025)
Single Unit Trucks (4-7)

	Northbound					Southbound					Eastbound					Westbound					
	Buckner Ln (South)					Buckner Ln (North)					Buckner Rd					June Lake Blvd					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	2	1	0	3	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	5
0615 - 0630	0	3	2	0	5	1	3	0	0	4	0	0	0	0	0	1	0	1	0	2	11
0630 - 0645	0	1	0	0	1	0	0	1	0	1	1	1	1	0	3	0	0	0	0	0	5
0645 - 0700	0	0	1	0	1	0	3	1	0	4	1	1	0	0	2	1	0	2	0	3	10
Hourly Total	0	6	4	0	**10**	1	7	2	0	**10**	3	2	1	0	**6**	2	0	3	0	**5**	**31**
0700 - 0715	0	3	2	0	5	0	3	0	0	3	0	2	0	0	2	0	0	2	0	2	12
0715 - 0730	0	1	1	0	2	0	0	0	0	0	0	1	0	0	1	3	1	3	0	7	10
0730 - 0745	0	2	1	0	3	0	2	2	0	4	0	1	0	0	1	2	0	2	0	4	12
0745 - 0800	1	3	1	0	5	1	2	0	0	3	0	1	0	0	1	1	1	0	0	2	11
Hourly Total	1	9	5	0	**15**	1	7	2	0	**10**	0	5	0	0	**5**	6	2	7	0	**15**	**45**
0800 - 0815	1	2	2	0	5	0	1	2	0	3	1	0	0	0	1	0	0	0	0	0	9
0815 - 0830	0	0	3	0	3	1	2	1	0	4	1	2	0	0	3	1	1	2	0	4	14
0830 - 0845	1	1	0	0	2	1	4	0	0	5	0	0	1	0	1	1	0	3	0	4	12
0845 - 0900	0	3	3	0	6	1	2	0	0	3	0	1	1	0	2	2	2	3	0	7	18
Hourly Total	2	6	8	0	**16**	3	9	3	0	**15**	2	3	2	0	**7**	4	3	8	0	**15**	**53**
Grand Total	3	21	17	0	**41**	5	23	7	0	**35**	5	10	3	0	**18**	12	5	18	0	**35**	**129**
Approach %	7.32	51.22	41.46	0.00	-	14.29	65.71	20.00	0.00	-	27.78	55.56	16.67	0.00	-	34.29	14.29	51.43	0.00	-	
Intersection %	2.33	16.28	13.18	0.00	31.78	3.88	17.83	5.43	0.00	27.13	3.88	7.75	2.33	0.00	13.95	9.30	3.88	13.95	0.00	27.13	

1400 - 1800 (Weekday 4h Session) (04-24-2025)
Single Unit Trucks (4-7)

	Northbound					Southbound					Eastbound					Westbound					
	Buckner Ln (South)					Buckner Ln (North)					Buckner Rd					June Lake Blvd					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	4	2	0	6	0	1	0	0	1	0	1	1	0	2	2	0	1	0	3	12
1415 - 1430	0	2	5	0	7	0	2	0	0	2	0	0	0	0	0	1	2	0	0	3	12
1430 - 1445	0	0	3	0	3	0	1	0	0	1	0	3	0	0	3	1	0	0	0	1	8
1445 - 1500	2	0	2	0	4	1	1	1	0	3	0	1	0	0	1	0	0	0	0	0	8
Hourly Total	2	6	12	0	**20**	1	5	1	0	**7**	0	5	1	0	**6**	4	2	1	0	**7**	**40**
1500 - 1515	0	3	2	0	5	3	1	0	0	4	1	2	1	0	4	1	0	1	0	2	15
1515 - 1530	1	1	1	0	3	1	3	1	0	5	1	0	0	0	1	0	2	0	0	2	11
1530 - 1545	0	1	1	0	2	0	1	0	0	1	1	0	0	0	1	0	1	1	0	2	6
1545 - 1600	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	1	7	4	0	**12**	4	5	1	0	**10**	3	2	1	0	**6**	1	3	2	0	**6**	**34**
1600 - 1615	1	1	1	0	3	0	0	2	0	2	1	0	1	0	2	0	0	1	0	1	8
1615 - 1630	0	1	0	0	1	0	2	1	0	3	1	1	0	0	2	0	0	1	0	1	7
1630 - 1645	0	1	2	0	3	1	8	2	0	11	0	1	0	0	1	1	2	1	0	4	19
1645 - 1700	0	2	0	0	2	2	0	2	0	4	0	0	0	0	0	2	0	0	0	2	8
Hourly Total	1	5	3	0	**9**	3	10	7	0	**20**	2	2	1	0	**5**	3	2	3	0	**8**	**42**
1700 - 1715	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	2	0	0	0	2	6
1715 - 1730	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	1	0	0	0	1	3
1730 - 1745	0	0	3	0	3	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	5
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	3	0	**3**	0	6	1	0	**7**	0	0	0	0	**0**	4	0	0	0	**4**	**14**
Grand Total	4	18	22	0	**44**	8	26	10	0	**44**	5	9	3	0	**17**	12	7	6	0	**25**	**130**
Approach %	9.09	40.91	50.00	0.00	-	18.18	59.09	22.73	0.00	-	29.41	52.94	17.65	0.00	-	48.00	28.00	24.00	0.00	-	
Intersection %	3.08	13.85	16.92	0.00	33.85	6.15	20.00	7.69	0.00	33.85	3.85	6.92	2.31	0.00	13.08	9.23	5.38	4.62	0.00	19.23	

Classified Turn Movement Count || Combination Trucks (8-13)

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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Thursday, April 24, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
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0600 - 0900 (Weekday 3h Session) (04-24-2025)
Combination Trucks (8-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1
Hourly Total	0	0	2	0	**2**	0	0	0	0	**0**	0	0	0	0	**0**	1	0	0	0	**1**	**3**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
0715 - 0730	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2
0730 - 0745	0	0	1	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
0745 - 0800	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	0	2	2	0	**4**	1	0	0	0	**1**	0	0	0	0	**0**	0	2	0	0	**2**	**7**
0800 - 0815	0	0	2	0	2	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	4
0815 - 0830	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	3
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	1	0	2	0	**3**	0	0	0	0	**0**	0	0	0	0	**0**	2	0	2	0	**4**	**7**
Grand Total	1	2	6	0	**9**	1	0	0	0	**1**	0	0	0	0	**0**	3	2	2	0	**7**	**17**
Approach %	11.11	22.22	66.67	0.00	-	100.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	42.86	28.57	28.57	0.00	-	
Intersection %	5.88	11.76	35.29	0.00	52.94	5.88	0.00	0.00	0.00	5.88	0.00	0.00	0.00	0.00	0.00	17.65	11.76	11.76	0.00	41.18	

1400 - 1800 (Weekday 4h Session) (04-24-2025)
Combination Trucks (8-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	1	0	0	1	3
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2
Hourly Total	0	0	1	0	**1**	0	1	0	0	**1**	0	1	0	0	**1**	0	1	1	0	**2**	**5**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1
1515 - 1530	0	0	1	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	2
1530 - 1545	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
1545 - 1600	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	0	0	1	0	**1**	2	0	0	0	**2**	0	1	0	0	**1**	0	1	0	0	**1**	**5**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2
Hourly Total	0	0	1	0	**1**	0	0	1	0	**1**	1	0	0	0	**1**	0	0	0	0	**0**	**3**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	1
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	0	0	1	0	**1**	0	0	0	0	**0**	1	1	0	0	**2**	0	0	0	0	**0**	**3**
Grand Total	0	0	4	0	**4**	2	1	1	0	**4**	2	3	0	0	**5**	0	2	1	0	**3**	**16**
Approach %	0.00	0.00	100.00	0.00	-	50.00	25.00	25.00	0.00	-	40.00	60.00	0.00	0.00	-	0.00	66.67	33.33	0.00	-	
Intersection %	0.00	0.00	25.00	0.00	25.00	12.50	6.25	6.25	0.00	25.00	12.50	18.75	0.00	0.00	31.25	0.00	12.50	6.25	0.00	18.75	

Classified Turn Movement Count || Bicycles

Spring Hill, TN

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0600 - 0900 (Weekday 3h Session) (04-24-2025)
Bicycles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Grand Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Approach %	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-24-2025)
Bicycles

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Grand Total	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	0	0	0	0	**0**	**0**
Approach %	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Classified Turn Movement Count || All Trucks (4-13)

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Thursday, April 24, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-24-2025)
All Trucks (4-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
0600 - 0615	0	2	2	0	4	0	1	0	0	1	1	0	0	0	1	0	0	0	0	0	6
0615 - 0630	0	3	2	0	5	1	3	0	0	4	0	0	0	0	0	1	0	1	0	2	11
0630 - 0645	0	1	1	0	2	0	0	1	0	1	1	1	1	0	3	0	0	0	0	0	6
0645 - 0700	0	0	1	0	1	0	3	1	0	4	1	1	0	0	2	2	0	2	0	4	11
Hourly Total	0	6	6	0	**12**	1	7	2	0	**10**	3	2	1	0	**6**	3	0	3	0	**6**	**34**
0700 - 0715	0	3	2	0	5	0	3	0	0	3	0	2	0	0	2	0	1	2	0	3	13
0715 - 0730	0	2	1	0	3	0	0	0	0	0	0	1	0	0	1	3	2	3	0	8	12
0730 - 0745	0	2	2	0	4	1	2	2	0	5	0	1	0	0	1	2	0	2	0	4	14
0745 - 0800	1	4	2	0	7	1	2	0	0	3	0	1	0	0	1	1	1	0	0	2	13
Hourly Total	1	11	7	0	**19**	2	7	2	0	**11**	0	5	0	0	**5**	6	4	7	0	**17**	**52**
0800 - 0815	1	2	4	0	7	0	1	2	0	3	1	0	0	0	1	1	0	1	0	2	13
0815 - 0830	1	0	3	0	4	1	2	1	0	4	1	2	0	0	3	2	1	3	0	6	17
0830 - 0845	1	1	0	0	2	1	4	0	0	5	0	0	1	0	1	1	0	3	0	4	12
0845 - 0900	0	3	3	0	6	1	2	0	0	3	0	1	1	0	2	2	2	3	0	7	18
Hourly Total	3	6	10	0	**19**	3	9	3	0	**15**	2	3	2	0	**7**	6	3	10	0	**19**	**60**
Grand Total	4	23	23	0	**50**	6	23	7	0	**36**	5	10	3	0	**18**	15	7	20	0	**42**	**146**
Approach %	8.00	46.00	46.00	0.00	-	16.67	63.89	19.44	0.00	-	27.78	55.56	16.67	0.00	-	35.71	16.67	47.62	0.00	-	
Intersection %	2.74	15.75	15.75	0.00	34.25	4.11	15.75	4.79	0.00	24.66	3.42	6.85	2.05	0.00	12.33	10.27	4.79	13.70	0.00	28.77	

1400 - 1800 (Weekday 4h Session) (04-24-2025)
All Trucks (4-13)

	Northbound (Buckner Ln (South))					Southbound (Buckner Ln (North))					Eastbound (Buckner Rd)					Westbound (June Lake Blvd)					
TIME	Left 1.1	Thru 1.2	Right 1.3	U-Turn 1.4	App Total	Left 1.5	Thru 1.6	Right 1.7	U-Turn 1.8	App Total	Left 1.9	Thru 1.10	Right 1.11	U-Turn 1.12	App Total	Left 1.13	Thru 1.14	Right 1.15	U-Turn 1.16	App Total	Int Total
1400 - 1415	0	4	2	0	6	0	2	0	0	2	0	2	1	0	3	2	1	1	0	4	15
1415 - 1430	0	2	5	0	7	0	2	0	0	2	0	0	0	0	0	1	2	0	0	3	12
1430 - 1445	0	0	3	0	3	0	1	0	0	1	0	3	0	0	3	1	0	0	0	1	8
1445 - 1500	2	0	3	0	5	1	1	1	0	3	0	1	0	0	1	0	0	1	0	1	10
Hourly Total	2	6	13	0	**21**	1	6	1	0	**8**	0	6	1	0	**7**	4	3	2	0	**9**	**45**
1500 - 1515	0	3	2	0	5	3	1	0	0	4	1	2	1	0	4	1	1	1	0	3	16
1515 - 1530	1	1	2	0	4	1	3	1	0	5	1	1	0	0	2	0	2	0	0	2	13
1530 - 1545	0	1	1	0	2	1	1	0	0	2	1	0	0	0	1	0	1	1	0	2	7
1545 - 1600	0	2	0	0	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3
Hourly Total	1	7	5	0	**13**	6	5	1	0	**12**	3	3	1	0	**7**	1	4	2	0	**7**	**39**
1600 - 1615	1	1	1	0	3	0	0	2	0	2	1	0	1	0	2	0	0	1	0	1	8
1615 - 1630	0	1	0	0	1	0	2	1	0	3	2	1	0	0	3	0	0	1	0	1	8
1630 - 1645	0	1	2	0	3	1	8	2	0	11	0	1	0	0	1	1	2	1	0	4	19
1645 - 1700	0	2	1	0	3	2	0	3	0	5	0	0	0	0	0	2	0	0	0	2	10
Hourly Total	1	5	4	0	**10**	3	10	8	0	**21**	3	2	1	0	**6**	3	2	3	0	**8**	**45**
1700 - 1715	0	0	0	0	0	0	4	0	0	4	1	0	0	0	1	2	0	0	0	2	7
1715 - 1730	0	0	0	0	0	0	1	1	0	2	0	1	0	0	1	1	0	0	0	1	4
1730 - 1745	0	0	3	0	3	0	1	0	0	1	0	0	0	0	0	1	0	0	0	1	5
1745 - 1800	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Hourly Total	0	0	4	0	**4**	0	6	1	0	**7**	1	1	0	0	**2**	4	0	0	0	**4**	**17**
Grand Total	4	18	26	0	**48**	10	27	11	0	**48**	7	12	3	0	**22**	12	9	7	0	**28**	**146**
Approach %	8.33	37.50	54.17	0.00	-	20.83	56.25	22.92	0.00	-	31.82	54.55	13.64	0.00	-	42.86	32.14	25.00	0.00	-	
Intersection %	2.74	12.33	17.81	0.00	32.88	6.85	18.49	7.53	0.00	32.88	4.79	8.22	2.05	0.00	15.07	8.22	6.16	4.79	0.00	19.18	

Crosswalk Counts || Pedestrians

Marr Traffic DATA COLLECTION
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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

Date
Thursday, April 24, 2025

Lat/Long
35.780066°, -86.879023°
Click here for Map

Weather
Mostly Cloudy
68°F
Click here for Detailed Weather

0600 - 0900 (Weekday 3h Session) (04-24-2025)
Pedestrians

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-24-2025)
Pedestrians

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	2	0	2	2
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	2	0	**2**	**2**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	2	0	**2**	**2**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	100.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00	0.00	100.00	

Crosswalk Counts || Bicycles

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Spring Hill, TN

Site 1
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Buckner Ln (North)
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June Lake Blvd

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0600 - 0900 (Weekday 3h Session) (04-24-2025)
Bicycles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-24-2025)
Bicycles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Crosswalk Counts || Motorized Vehicles

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Spring Hill, TN

Site 1
Buckner Ln (South)
Buckner Ln (North)
Buckner Rd
June Lake Blvd

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0600 - 0900 (Weekday 3h Session) (04-24-2025)
Motorized Vehicles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
0600 - 0615	0	0	0	0	0	0	0	0	0	0	0	0	0
0615 - 0630	0	0	0	0	0	0	0	0	0	0	0	0	0
0630 - 0645	0	0	0	0	0	0	0	0	0	0	0	0	0
0645 - 0700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0700 - 0715	0	0	0	0	0	0	0	0	0	0	0	0	0
0715 - 0730	0	0	0	0	0	0	0	0	0	0	0	0	0
0730 - 0745	0	0	0	0	0	0	0	0	0	0	0	0	0
0745 - 0800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
0800 - 0815	0	0	0	0	0	0	0	0	0	0	0	0	0
0815 - 0830	0	0	0	0	0	0	0	0	0	0	0	0	0
0830 - 0845	0	0	0	0	0	0	0	0	0	0	0	0	0
0845 - 0900	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

1400 - 1800 (Weekday 4h Session) (04-24-2025)
Motorized Vehicles

	Northbound			Southbound			Eastbound			Westbound			
	Buckner Ln (South)			Buckner Ln (North)			Buckner Rd			June Lake Blvd			
TIME	EB 1a	WB 1b	App Total	EB 1c	WB 1d	App Total	NB 1e	SB 1f	App Total	NB 1g	SB 1h	App Total	Int Total
1400 - 1415	0	0	0	0	0	0	0	0	0	0	0	0	0
1415 - 1430	0	0	0	0	0	0	0	0	0	0	0	0	0
1430 - 1445	0	0	0	0	0	0	0	0	0	0	0	0	0
1445 - 1500	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1500 - 1515	0	0	0	0	0	0	0	0	0	0	0	0	0
1515 - 1530	0	0	0	0	0	0	0	0	0	0	0	0	0
1530 - 1545	0	0	0	0	0	0	0	0	0	0	0	0	0
1545 - 1600	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1600 - 1615	0	0	0	0	0	0	0	0	0	0	0	0	0
1615 - 1630	0	0	0	0	0	0	0	0	0	0	0	0	0
1630 - 1645	0	0	0	0	0	0	0	0	0	0	0	0	0
1645 - 1700	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
1700 - 1715	0	0	0	0	0	0	0	0	0	0	0	0	0
1715 - 1730	0	0	0	0	0	0	0	0	0	0	0	0	0
1730 - 1745	0	0	0	0	0	0	0	0	0	0	0	0	0
1745 - 1800	0	0	0	0	0	0	0	0	0	0	0	0	0
Hourly Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Grand Total	0	0	**0**	0	0	**0**	0	0	**0**	0	0	**0**	**0**
Approach %	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	0.00	0.00	-	
Intersection %	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Start Date: 4/24/2025	Buckner Rd Eastbound			June Lake Blvd Westbound			Buckner Ln (South) Northbound			Buckner Ln (North) Southbound			
Time	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	Total
15 Minute Totals													
12:00 AM - 12:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 AM - 12:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 AM - 12:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 AM - 01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 AM - 01:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 AM - 01:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 AM - 01:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 AM - 02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 AM - 02:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 AM - 02:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 AM - 02:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 AM - 03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM - 03:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:15 AM - 03:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 AM - 03:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:45 AM - 04:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM - 04:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:15 AM - 04:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:30 AM - 04:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
04:45 AM - 05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 AM - 05:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:15 AM - 05:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:30 AM - 05:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
05:45 AM - 06:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 AM - 06:15 AM	5	85	5	7	2	2	2	37	119	8	9	2	283
06:15 AM - 06:30 AM	12	83	1	9	6	9	4	49	193	15	11	3	395
06:30 AM - 06:45 AM	33	113	5	22	18	17	5	64	219	21	8	8	533
06:45 AM - 07:00 AM	53	135	3	28	15	36	5	57	204	18	14	5	573
07:00 AM - 07:15 AM	71	123	4	24	25	20	5	51	140	13	34	6	516
07:15 AM - 07:30 AM	44	115	3	59	18	12	8	36	99	28	64	15	501
07:30 AM - 07:45 AM	24	99	3	22	33	16	10	49	116	25	69	35	501
07:45 AM - 08:00 AM	43	127	3	24	26	13	23	52	112	18	11	14	466
08:00 AM - 08:15 AM	62	114	2	26	27	15	8	69	179	11	12	13	538
08:15 AM - 08:30 AM	42	99	5	19	28	7	14	57	163	18	12	9	473
08:30 AM - 08:45 AM	38	90	12	35	15	9	14	89	176	19	27	21	545
08:45 AM - 09:00 AM	40	83	11	27	43	15	5	62	115	10	24	17	452
09:00 AM - 09:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 AM - 09:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 AM - 09:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 AM - 10:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM - 10:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 AM - 10:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 AM - 10:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 AM - 11:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 AM - 11:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 AM - 11:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 AM - 11:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 AM - 12:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:00 PM - 12:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:15 PM - 12:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:30 PM - 12:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
12:45 PM - 01:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 PM - 01:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:15 PM - 01:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:30 PM - 01:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
01:45 PM - 02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 PM - 02:15 PM	9	40	15	39	41	13	18	37	49	8	48	32	349
02:15 PM - 02:30 PM	9	39	10	37	39	11	21	31	55	14	48	49	363
02:30 PM - 02:45 PM	14	46	9	48	59	13	7	19	61	15	48	41	380
02:45 PM - 03:00 PM	19	40	19	43	42	8	12	25	51	25	68	86	438
03:00 PM - 03:15 PM	18	58	9	30	57	9	36	80	93	22	87	164	663
03:15 PM - 03:30 PM	16	58	8	36	51	3	47	66	77	22	115	141	640
03:30 PM - 03:45 PM	18	63	19	32	62	11	28	24	57	22	100	97	533
03:45 PM - 04:00 PM	16	50	10	37	55	20	16	28	69	21	108	102	532
04:00 PM - 04:15 PM	8	53	14	41	53	11	14	35	60	27	98	106	520
04:15 PM - 04:30 PM	15	71	11	57	68	14	18	34	67	21	127	106	609
04:30 PM - 04:45 PM	14	58	7	38	68	10	15	41	72	28	145	125	621
04:45 PM - 05:00 PM	11	75	13	40	59	13	16	38	62	40	99	124	590
05:00 PM - 05:15 PM	15	71	14	51	69	6	19	45	76	32	113	122	633
05:15 PM - 05:30 PM	19	58	11	41	56	15	17	31	70	21	130	111	580
05:30 PM - 05:45 PM	21	66	20	46	51	9	10	28	70	20	148	97	586
05:45 PM - 06:00 PM	25	61	15	52	64	13	8	22	52	28	122	92	554
06:00 PM - 06:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:15 PM - 06:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:30 PM - 06:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
06:45 PM - 07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 PM - 07:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 PM - 07:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:30 PM - 07:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 PM - 08:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 PM - 08:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:15 PM - 08:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 PM - 08:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 PM - 09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:00 PM - 09:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:15 PM - 09:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:30 PM - 09:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
09:45 PM - 10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM - 10:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:15 PM - 10:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:30 PM - 10:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
10:45 PM - 11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM - 11:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:15 PM - 11:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:30 PM - 11:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
11:45 PM - 12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0

Appendix B

Capacity Analysis

Existing Conditions

HCM 7th Signalized Intersection Capacity Analysis
3: Buckner Ln & Buckner Rd/June Lake Blvd

05/14/2025

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	204	493	12	163	70	99	24	233	650	82	132	29
Future Volume (veh/h)	204	493	12	163	70	99	24	233	650	82	132	29
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	222	536	13	177	76	108	26	253	707	89	143	32
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	561	601	15	235	615	628	513	1159	643	330	1226	681
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.08	0.33	0.33	0.08	0.33	0.33	0.04	0.33	0.33	0.07	0.34	0.34
Unsig. Movement Delay												
Ln Grp Delay, s/veh	28.7	0.0	63.7	39.9	34.4	29.0	29.1	35.9	108.8	28.5	32.6	24.2
Ln Grp LOS	C		E	D	C	C	C	D	F	C	C	C
Approach Vol, veh/h		771			361			986			264	
Approach Delay, s/veh		53.6			35.5			88.0			30.2	
Approach LOS		D			D			F			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Case No	1.1	3.0	1.1	4.0	1.1	3.0	1.1	3.0
Phs Duration (G+Y+Rc), s	16.7	54.3	19.1	54.9	14.0	57.0	19.3	54.7
Change Period (Y+Rc), s	7.0	7.0	7.5	7.0	7.5	7.0	7.0	7.0
Max Green (Gmax), s	10.0	47.0	17.5	42.0	10.0	46.5	12.3	47.7
Max Allow Headway (MAH), s	2.8	4.3	2.7	5.2	2.8	4.9	2.8	4.4
Max Q Clear (g_c+I1), s	6.6	49.3	11.5	42.6	3.4	6.0	14.1	8.4
Green Ext Time (g_e), s	0.0	0.0	0.1	0.0	0.0	1.0	0.0	0.7
Prob of Phs Call (p_c)	0.97	1.00	1.00	1.00	0.65	1.00	1.00	1.00
Prob of Max Out (p_x)	0.39	0.00	0.02	0.00	0.00	0.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5		7	
Mvmt Sat Flow, veh/h	1781		1781		1781		1781	

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		3554		1818		3554		1870

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1585		44		1585		1585

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	7	0

HCM 7th Signalized Intersection Capacity Analysis
3: Buckner Ln & Buckner Rd/June Lake Blvd 05/14/2025

Lane Assignment	L (Pr/Pm)		L (Pr/Pm)		L (Pr/Pm)		L (Pr/Pm)	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	89	0	177	0	26	0	222	0
Grp Sat Flow (s), veh/h/ln	1781	0	1781	0	1781	0	1781	0
Q Serve Time (g_s), s	4.6	0.0	9.5	0.0	1.4	0.0	12.1	0.0
Cycle Q Clear Time (g_c), s	4.6	0.0	9.5	0.0	1.4	0.0	12.1	0.0
Perm LT Sat Flow (s_l), veh/h/ln	585	0	858	0	1210	0	1200	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	47.3	0.0	47.7	0.0	47.3	0.0	47.7	0.0
Perm LT Serve Time (g_u), s	39.8	0.0	7.4	0.0	46.0	0.0	43.6	0.0
Perm LT Q Serve Time (g_ps), s	1.3	0.0	7.4	0.0	0.0	0.0	0.9	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	330	0	235	0	513	0	561	0
V/C Ratio (X)	0.27	0.00	0.75	0.00	0.05	0.00	0.40	0.00
Avail Cap (c_a), veh/h	333	0	308	0	556	0	561	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	28.3	0.0	35.1	0.0	29.1	0.0	28.5	0.0
Incr Delay (d2), s/veh	0.2	0.0	4.8	0.0	0.0	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	28.5	0.0	39.9	0.0	29.1	0.0	28.7	0.0
1st-Term Q (Q1), veh/ln	2.0	0.0	4.0	0.0	0.6	0.0	5.2	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.0	0.0	4.3	0.0	0.6	0.0	5.3	0.0
%ile Storage Ratio (RQ%)	0.35	0.00	0.22	0.00	0.09	0.00	0.24	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment		T				T		T
Lanes in Grp	0	2	0	0	0	2	0	1
Grp Vol (v), veh/h	0	253	0	0	0	143	0	76
Grp Sat Flow (s), veh/h/ln	0	1777	0	0	0	1777	0	1870
Q Serve Time (g_s), s	0.0	7.5	0.0	0.0	0.0	4.0	0.0	4.1
Cycle Q Clear Time (g_c), s	0.0	7.5	0.0	0.0	0.0	4.0	0.0	4.1
Lane Grp Cap (c), veh/h	0	1159	0	0	0	1226	0	615
V/C Ratio (X)	0.00	0.22	0.00	0.00	0.00	0.12	0.00	0.12
Avail Cap (c_a), veh/h	0	1159	0	0	0	1226	0	615
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	35.5	0.0	0.0	0.0	32.4	0.0	34.0
Incr Delay (d2), s/veh	0.0	0.4	0.0	0.0	0.0	0.2	0.0	0.4
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	35.9	0.0	0.0	0.0	32.6	0.0	34.4
1st-Term Q (Q1), veh/ln	0.0	3.3	0.0	0.0	0.0	1.7	0.0	1.9

HCM 7th Signalized Intersection Capacity Analysis
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2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.3	0.0	0.0	0.0	1.8	0.0	1.9
%ile Storage Ratio (RQ%)	0.00	0.10	0.00	0.00	0.00	0.05	0.00	0.05
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		T+R		R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	707	0	549	0	32	0	108
Grp Sat Flow (s), veh/h/ln	0	1585	0	1862	0	1585	0	1585
Q Serve Time (g_s), s	0.0	47.3	0.0	40.6	0.0	1.7	0.0	6.4
Cycle Q Clear Time (g_c), s	0.0	47.3	0.0	40.6	0.0	1.7	0.0	6.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	1585.1	0.0	0.0	0.0	1585.1	0.0	1585.1
Prot RT Eff Green (g_R), s	0.0	11.6	0.0	0.0	0.0	12.3	0.0	9.7
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.02	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	643	0	616	0	681	0	628
V/C Ratio (X)	0.00	1.10	0.00	0.89	0.00	0.05	0.00	0.17
Avail Cap (c_a), veh/h	0	643	0	616	0	681	0	628
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	43.1	0.0	46.1	0.0	24.1	0.0	28.4
Incr Delay (d2), s/veh	0.0	65.7	0.0	17.7	0.0	0.1	0.0	0.6
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	108.8	0.0	63.7	0.0	24.2	0.0	29.0
1st-Term Q (Q1), veh/ln	0.0	22.3	0.0	18.7	0.0	0.6	0.0	2.4
2nd-Term Q (Q2), veh/ln	0.0	11.7	0.0	3.0	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	34.0	0.0	21.8	0.0	0.7	0.0	2.5
%ile Storage Ratio (RQ%)	0.00	6.65	0.00	0.54	0.00	0.15	0.00	0.13
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	15.9	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	62.5
HCM 7th LOS	E

HCM 7th Signalized Intersection Capacity Analysis
3: Buckner Ln & Buckner Rd/June Lake Blvd

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	63	298	46	237	291	64	57	160	303	119	541	495
Future Volume (veh/h)	63	298	46	237	291	64	57	160	303	119	541	495
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	68	324	50	258	316	70	62	174	329	129	588	538
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	317	492	76	287	622	643	284	1239	641	467	1250	618
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.04	0.31	0.31	0.06	0.33	0.33	0.07	0.35	0.35	0.07	0.35	0.35
Unsig. Movement Delay												
Ln Grp Delay, s/veh	30.8	0.0	46.2	73.2	39.1	25.3	25.2	30.3	33.2	24.5	35.3	53.6
Ln Grp LOS	C		D	E	D	C	C	C	C	C	D	D
Approach Vol, veh/h		442			644			565			1255	
Approach Delay, s/veh		43.8			51.3			31.4			42.0	
Approach LOS		D			D			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Case No	1.1	3.0	1.1	4.0	1.1	3.0	1.1	3.0
Phs Duration (G+Y+Rc), s	16.9	54.1	15.0	49.0	16.5	54.5	12.1	51.9
Change Period (Y+Rc), s	7.0	7.0	7.5	7.0	7.5	7.0	7.0	7.0
Max Green (Gmax), s	10.0	47.0	7.5	42.0	10.0	46.5	25.0	25.0
Max Allow Headway (MAH), s	2.8	4.4	2.7	5.3	2.8	4.6	2.8	4.8
Max Q Clear (g_c+I1), s	8.1	23.1	9.5	25.9	4.8	44.3	5.5	20.3
Green Ext Time (g_e), s	0.0	2.2	0.0	2.1	0.0	1.3	0.1	0.8
Prob of Phs Call (p_c)	0.99	1.00	1.00	1.00	0.90	1.00	0.92	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	0.00	0.01	0.00	0.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5		7	
Mvmt Sat Flow, veh/h	1781		1781		1781		1781	

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		3554		1582		3554		1870

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		1585		244		1585		1585

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	7	0

HCM 7th Signalized Intersection Capacity Analysis
3: Buckner Ln & Buckner Rd/June Lake Blvd 05/14/2025

Lane Assignment	L (Pr/Pm)		L (Pr/Pm)		L (Pr/Pm)		L (Pr/Pm)	
Lanes in Grp	1	0	1	0	1	0	1	0
Grp Vol (v), veh/h	129	0	258	0	62	0	68	0
Grp Sat Flow (s), veh/h/ln	1781	0	1781	0	1781	0	1781	0
Q Serve Time (g_s), s	6.1	0.0	7.5	0.0	2.8	0.0	3.5	0.0
Cycle Q Clear Time (g_c), s	6.1	0.0	7.5	0.0	2.8	0.0	3.5	0.0
Perm LT Sat Flow (s_l), veh/h/ln	896	0	1009	0	500	0	997	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	47.1	0.0	42.0	0.0	47.1	0.0	42.0	0.0
Perm LT Serve Time (g_u), s	42.6	0.0	18.1	0.0	30.1	0.0	26.6	0.0
Perm LT Q Serve Time (g_ps), s	0.8	0.0	18.1	0.0	2.4	0.0	1.1	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	467	0	287	0	284	0	317	0
V/C Ratio (X)	0.28	0.00	0.90	0.00	0.22	0.00	0.21	0.00
Avail Cap (c_a), veh/h	468	0	287	0	297	0	579	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	24.4	0.0	45.2	0.0	25.1	0.0	30.7	0.0
Incr Delay (d2), s/veh	0.1	0.0	28.0	0.0	0.1	0.0	0.1	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	24.5	0.0	73.2	0.0	25.2	0.0	30.8	0.0
1st-Term Q (Q1), veh/ln	2.6	0.0	5.1	0.0	1.2	0.0	1.5	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	2.2	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.6	0.0	7.3	0.0	1.2	0.0	1.5	0.0
%ile Storage Ratio (RQ%)	0.45	0.00	0.37	0.00	0.19	0.00	0.07	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment		T				T		T
Lanes in Grp	0	2	0	0	0	2	0	1
Grp Vol (v), veh/h	0	174	0	0	0	588	0	316
Grp Sat Flow (s), veh/h/ln	0	1777	0	0	0	1777	0	1870
Q Serve Time (g_s), s	0.0	4.5	0.0	0.0	0.0	17.4	0.0	18.3
Cycle Q Clear Time (g_c), s	0.0	4.5	0.0	0.0	0.0	17.4	0.0	18.3
Lane Grp Cap (c), veh/h	0	1239	0	0	0	1250	0	622
V/C Ratio (X)	0.00	0.14	0.00	0.00	0.00	0.47	0.00	0.51
Avail Cap (c_a), veh/h	0	1239	0	0	0	1250	0	622
Upstream Filter (I)	0.00	1.00	0.00	0.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	30.1	0.0	0.0	0.0	34.0	0.0	36.2
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.0	1.3	0.0	3.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	30.3	0.0	0.0	0.0	35.3	0.0	39.1
1st-Term Q (Q1), veh/ln	0.0	2.0	0.0	0.0	0.0	7.5	0.0	8.2

2nd-Term Q (Q2), veh/ln	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.5
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	2.0	0.0	0.0	0.0	7.7	0.0	8.8
%ile Storage Ratio (RQ%)	0.00	0.06	0.00	0.00	0.00	0.21	0.00	0.23
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		T+R		R		R
Lanes in Grp	0	1	0	1	0	1	0	1
Grp Vol (v), veh/h	0	329	0	374	0	538	0	70
Grp Sat Flow (s), veh/h/ln	0	1585	0	1826	0	1585	0	1585
Q Serve Time (g_s), s	0.0	21.1	0.0	23.9	0.0	42.3	0.0	3.7
Cycle Q Clear Time (g_c), s	0.0	21.1	0.0	23.9	0.0	42.3	0.0	3.7
Prot RT Sat Flow (s_R), veh/h/ln	0.0	1585.1	0.0	0.0	0.0	1585.1	0.0	1585.1
Prot RT Eff Green (g_R), s	0.0	7.5	0.0	0.0	0.0	5.1	0.0	9.9
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.13	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	641	0	568	0	618	0	643
V/C Ratio (X)	0.00	0.51	0.00	0.66	0.00	0.87	0.00	0.11
Avail Cap (c_a), veh/h	0	641	0	568	0	618	0	643
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	30.2	0.0	40.3	0.0	38.1	0.0	24.9
Incr Delay (d2), s/veh	0.0	2.9	0.0	5.9	0.0	15.5	0.0	0.3
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	33.2	0.0	46.2	0.0	53.6	0.0	25.3
1st-Term Q (Q1), veh/ln	0.0	7.9	0.0	10.8	0.0	15.9	0.0	1.4
2nd-Term Q (Q2), veh/ln	0.0	0.5	0.0	0.9	0.0	2.7	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	8.4	0.0	11.7	0.0	18.6	0.0	1.4
%ile Storage Ratio (RQ%)	0.00	1.64	0.00	0.29	0.00	4.10	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	42.3
HCM 7th LOS	D

Projected Conditions

HCM 7th Signalized Intersection Capacity Analysis
3: Buckner Ln & Buckner Rd/June Lake Blvd

05/15/2025

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	264	745	21	225	87	134	39	320	877	115	175	50
Future Volume (veh/h)	264	745	21	225	87	134	39	320	877	115	175	50
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	287	810	23	245	95	146	42	348	953	125	190	54
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	513	1098	31	192	446	494	526	1240	1128	302	1279	1371
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.13	0.31	0.31	0.06	0.24	0.24	0.06	0.35	0.35	0.07	0.36	0.36
Unsig. Movement Delay												
Ln Grp Delay, s/veh	31.5	50.1	49.8	222.0	42.3	36.7	24.3	32.3	44.2	25.1	29.5	17.8
Ln Grp LOS	C	D	D	F	D	D	C	C	D	C	C	B
Approach Vol, veh/h		1120			486			1343			369	
Approach Delay, s/veh		45.2			131.2			40.5			26.3	
Approach LOS		D			F			D			C	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Case No	1.1	3.0	2.0	4.0	1.1	3.0	1.1	3.0
Phs Duration (G+Y+Rc), s	16.9	54.1	15.0	49.0	15.4	55.6	24.8	39.2
Change Period (Y+Rc), s	7.0	7.0	7.5	7.0	7.5	7.0	7.0	7.0
Max Green (Gmax), s	10.0	47.0	7.5	42.0	10.0	46.5	17.8	32.2
Max Allow Headway (MAH), s	2.8	4.3	2.7	5.2	2.8	4.9	2.8	4.4
Max Q Clear (g_c+I1), s	7.9	43.7	9.5	29.7	3.9	6.9	17.9	11.4
Green Ext Time (g_e), s	0.0	2.0	0.0	4.2	0.0	1.4	0.0	0.9
Prob of Phs Call (p_c)	0.99	1.00	1.00	1.00	0.79	1.00	1.00	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	0.00	0.00	0.00	1.00	0.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5		7	
Mvmt Sat Flow, veh/h	1781		3456		1781		1781	

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		3554		3529		3554		1870

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		2790		100		2790		1585

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	7	0

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Lane Assignment	L (Pr/Pm)		L (Prot)		L (Pr/Pm)		L (Pr/Pm)	
Lanes in Grp	1	0	2	0	1	0	1	0
Grp Vol (v), veh/h	125	0	245	0	42	0	287	0
Grp Sat Flow (s), veh/h/ln	1781	0	1728	0	1781	0	1781	0
Q Serve Time (g_s), s	5.9	0.0	7.5	0.0	1.9	0.0	15.9	0.0
Cycle Q Clear Time (g_c), s	5.9	0.0	7.5	0.0	1.9	0.0	15.9	0.0
Perm LT Sat Flow (s_l), veh/h/ln	423	0	0	0	1136	0	1139	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	47.1	0.0	0.0	0.0	47.1	0.0	34.2	0.0
Perm LT Serve Time (g_u), s	37.5	0.0	0.0	0.0	43.7	0.0	26.7	0.0
Perm LT Q Serve Time (g_ps), s	4.0	0.0	0.0	0.0	0.1	0.0	2.5	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	302	0	192	0	526	0	513	0
V/C Ratio (X)	0.41	0.00	1.28	0.00	0.08	0.00	0.56	0.00
Avail Cap (c_a), veh/h	303	0	192	0	553	0	513	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	24.7	0.0	63.7	0.0	24.3	0.0	30.7	0.0
Incr Delay (d2), s/veh	0.3	0.0	158.3	0.0	0.0	0.0	0.8	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	25.1	0.0	222.0	0.0	24.3	0.0	31.5	0.0
1st-Term Q (Q1), veh/ln	2.5	0.0	3.3	0.0	0.8	0.0	6.9	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	4.2	0.0	0.0	0.0	0.1	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	2.5	0.0	7.5	0.0	0.8	0.0	7.0	0.0
%ile Storage Ratio (RQ%)	0.44	0.00	0.38	0.00	0.13	0.00	0.32	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	13.3	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment		T		T		T		T
Lanes in Grp	0	2	0	1	0	2	0	1
Grp Vol (v), veh/h	0	348	0	408	0	190	0	95
Grp Sat Flow (s), veh/h/ln	0	1777	0	1777	0	1777	0	1870
Q Serve Time (g_s), s	0.0	9.5	0.0	27.7	0.0	4.9	0.0	5.5
Cycle Q Clear Time (g_c), s	0.0	9.5	0.0	27.7	0.0	4.9	0.0	5.5
Lane Grp Cap (c), veh/h	0	1240	0	553	0	1279	0	446
V/C Ratio (X)	0.00	0.28	0.00	0.74	0.00	0.15	0.00	0.21
Avail Cap (c_a), veh/h	0	1240	0	553	0	1279	0	446
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	31.7	0.0	41.6	0.0	29.2	0.0	41.2
Incr Delay (d2), s/veh	0.0	0.6	0.0	8.5	0.0	0.2	0.0	1.1
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	32.3	0.0	50.1	0.0	29.5	0.0	42.3
1st-Term Q (Q1), veh/ln	0.0	4.1	0.0	12.1	0.0	2.1	0.0	2.5

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2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	1.3	0.0	0.0	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	4.2	0.0	13.5	0.0	2.1	0.0	2.7
%ile Storage Ratio (RQ%)	0.00	0.13	0.00	0.34	0.00	0.06	0.00	0.07
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		T+R		R		R
Lanes in Grp	0	2	0	1	0	2	0	1
Grp Vol (v), veh/h	0	953	0	425	0	54	0	146
Grp Sat Flow (s), veh/h/ln	0	1395	0	1852	0	1395	0	1585
Q Serve Time (g_s), s	0.0	41.7	0.0	27.7	0.0	1.4	0.0	9.4
Cycle Q Clear Time (g_c), s	0.0	41.7	0.0	27.7	0.0	1.4	0.0	9.4
Prot RT Sat Flow (s_R), veh/h/ln	0.0	1394.8	0.0	0.0	0.0	1394.8	0.0	1585.1
Prot RT Eff Green (g_R), s	0.0	7.5	0.0	0.0	0.0	17.8	0.0	9.9
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.05	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	1128	0	576	0	1371	0	494
V/C Ratio (X)	0.00	0.84	0.00	0.74	0.00	0.04	0.00	0.30
Avail Cap (c_a), veh/h	0	1128	0	576	0	1371	0	494
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	36.4	0.0	41.6	0.0	17.8	0.0	35.2
Incr Delay (d2), s/veh	0.0	7.8	0.0	8.2	0.0	0.1	0.0	1.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	44.2	0.0	49.8	0.0	17.8	0.0	36.7
1st-Term Q (Q1), veh/ln	0.0	13.7	0.0	12.7	0.0	0.4	0.0	3.6
2nd-Term Q (Q2), veh/ln	0.0	1.2	0.0	1.3	0.0	0.0	0.0	0.2
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	15.0	0.0	14.0	0.0	0.4	0.0	3.8
%ile Storage Ratio (RQ%)	0.00	2.92	0.00	0.35	0.00	0.10	0.00	0.19
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	53.8
HCM 7th LOS	D

HCM 7th Signalized Intersection Capacity Analysis
3: Buckner Ln & Buckner Rd/June Lake Blvd

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	95	440	63	378	374	96	76	211	417	169	712	629
Future Volume (veh/h)	95	440	63	378	374	96	76	211	417	169	712	629
Number	7	4	14	3	8	18	5	2	12	1	6	16
Initial Q, veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj (A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Lanes Open During Work Zone												
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	103	478	68	411	407	104	83	229	453	184	774	684
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Opposing Right Turn Influence	Yes			Yes			Yes			Yes		
Cap, veh/h	307	905	128	417	674	680	217	1152	1241	383	1148	1051
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Prop Arrive On Green	0.05	0.29	0.29	0.12	0.36	0.36	0.07	0.32	0.32	0.07	0.32	0.32
Unsig. Movement Delay												
Ln Grp Delay, s/veh	34.4	47.0	47.1	103.6	41.9	25.8	32.1	35.8	27.5	30.5	45.6	40.4
Ln Grp LOS	C	D	D	F	D	C	C	D	C	C	D	D
Approach Vol, veh/h		649			922			765			1642	
Approach Delay, s/veh		45.0			67.6			30.5			41.8	
Approach LOS		D			E			C			D	

Timer:	1	2	3	4	5	6	7	8
Assigned Phs	1	2	3	4	5	6	7	8
Case No	1.1	3.0	2.0	4.0	1.1	3.0	1.1	3.0
Phs Duration (G+Y+Rc), s	17.0	54.0	25.0	49.0	17.1	53.9	14.8	59.2
Change Period (Y+Rc), s	7.0	7.0	7.5	7.0	7.5	7.0	7.0	7.0
Max Green (Gmax), s	10.0	47.0	17.5	42.0	10.0	46.5	13.2	46.8
Max Allow Headway (MAH), s	2.8	4.4	2.7	5.3	2.8	4.6	2.8	4.8
Max Q Clear (g_c+I1), s	12.0	17.6	19.2	20.7	6.3	31.4	7.8	27.8
Green Ext Time (g_e), s	0.0	3.5	0.0	3.3	0.0	7.3	0.0	2.5
Prob of Phs Call (p_c)	1.00	1.00	1.00	1.00	0.96	1.00	0.98	1.00
Prob of Max Out (p_x)	1.00	0.00	1.00	0.00	0.23	0.00	0.02	0.00

Left-Turn Movement Data								
Assigned Mvmt	1		3		5		7	
Mvmt Sat Flow, veh/h	1781		3456		1781		1781	

Through Movement Data								
Assigned Mvmt		2		4		6		8
Mvmt Sat Flow, veh/h		3554		3125		3554		1870

Right-Turn Movement Data								
Assigned Mvmt		12		14		16		18
Mvmt Sat Flow, veh/h		2790		442		2790		1585

Left Lane Group Data								
Assigned Mvmt	1	0	3	0	5	0	7	0

HCM 7th Signalized Intersection Capacity Analysis
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Lane Assignment	L (Pr/Pm)		L (Prot)		L (Pr/Pm)		L (Pr/Pm)	
Lanes in Grp	1	0	2	0	1	0	1	0
Grp Vol (v), veh/h	184	0	411	0	83	0	103	0
Grp Sat Flow (s), veh/h/ln	1781	0	1728	0	1781	0	1781	0
Q Serve Time (g_s), s	10.0	0.0	17.2	0.0	4.3	0.0	5.8	0.0
Cycle Q Clear Time (g_c), s	10.0	0.0	17.2	0.0	4.3	0.0	5.8	0.0
Perm LT Sat Flow (s_l), veh/h/ln	759	0	0	0	364	0	889	0
Shared LT Sat Flow (s_sh), veh/h/ln	0	0	0	0	0	0	0	0
Perm LT Eff Green (g_p), s	46.9	0.0	0.0	0.0	46.9	0.0	42.0	0.0
Perm LT Serve Time (g_u), s	40.2	0.0	0.0	0.0	19.5	0.0	26.4	0.0
Perm LT Q Serve Time (g_ps), s	2.5	0.0	0.0	0.0	8.1	0.0	2.0	0.0
Time to First Blk (g_f), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Serve Time pre Blk (g_fs), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Prop LT Inside Lane (P_L)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Lane Grp Cap (c), veh/h	383	0	417	0	217	0	307	0
V/C Ratio (X)	0.48	0.00	0.99	0.00	0.38	0.00	0.34	0.00
Avail Cap (c_a), veh/h	383	0	417	0	222	0	374	0
Upstream Filter (I)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
Uniform Delay (d1), s/veh	30.2	0.0	63.6	0.0	31.7	0.0	34.1	0.0
Incr Delay (d2), s/veh	0.3	0.0	40.0	0.0	0.4	0.0	0.2	0.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	30.5	0.0	103.6	0.0	32.1	0.0	34.4	0.0
1st-Term Q (Q1), veh/ln	4.4	0.0	7.5	0.0	1.9	0.0	2.6	0.0
2nd-Term Q (Q2), veh/ln	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	1.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00
%ile Back of Q (50%), veh/ln	4.4	0.0	9.8	0.0	1.9	0.0	2.6	0.0
%ile Storage Ratio (RQ%)	0.77	0.00	0.50	0.00	0.30	0.00	0.12	0.00
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Middle Lane Group Data								
Assigned Mvmt	0	2	0	4	0	6	0	8
Lane Assignment		T		T		T		T
Lanes in Grp	0	2	0	1	0	2	0	1
Grp Vol (v), veh/h	0	229	0	271	0	774	0	407
Grp Sat Flow (s), veh/h/ln	0	1777	0	1777	0	1777	0	1870
Q Serve Time (g_s), s	0.0	6.8	0.0	18.5	0.0	27.3	0.0	25.8
Cycle Q Clear Time (g_c), s	0.0	6.8	0.0	18.5	0.0	27.3	0.0	25.8
Lane Grp Cap (c), veh/h	0	1152	0	515	0	1148	0	674
V/C Ratio (X)	0.00	0.20	0.00	0.53	0.00	0.67	0.00	0.60
Avail Cap (c_a), veh/h	0	1152	0	515	0	1148	0	674
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	35.4	0.0	43.2	0.0	42.5	0.0	37.9
Incr Delay (d2), s/veh	0.0	0.4	0.0	3.8	0.0	3.2	0.0	4.0
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	35.8	0.0	47.0	0.0	45.6	0.0	41.9
1st-Term Q (Q1), veh/ln	0.0	2.9	0.0	8.2	0.0	12.0	0.0	11.7

2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.5	0.0	0.5	0.0	0.7
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	3.0	0.0	8.8	0.0	12.5	0.0	12.4
%ile Storage Ratio (RQ%)	0.00	0.09	0.00	0.22	0.00	0.35	0.00	0.32
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Right Lane Group Data								
Assigned Mvmt	0	12	0	14	0	16	0	18
Lane Assignment		R		T+R		R		R
Lanes in Grp	0	2	0	1	0	2	0	1
Grp Vol (v), veh/h	0	453	0	275	0	684	0	104
Grp Sat Flow (s), veh/h/ln	0	1395	0	1791	0	1395	0	1585
Q Serve Time (g_s), s	0.0	15.6	0.0	18.7	0.0	29.4	0.0	5.8
Cycle Q Clear Time (g_c), s	0.0	15.6	0.0	18.7	0.0	29.4	0.0	5.8
Prot RT Sat Flow (s_R), veh/h/ln	0.0	1394.8	0.0	0.0	0.0	1394.8	0.0	1585.1
Prot RT Eff Green (g_R), s	0.0	17.5	0.0	0.0	0.0	7.8	0.0	10.0
Prop RT Outside Lane (P_R)	0.00	1.00	0.00	0.25	0.00	1.00	0.00	1.00
Lane Grp Cap (c), veh/h	0	1241	0	519	0	1051	0	680
V/C Ratio (X)	0.00	0.37	0.00	0.53	0.00	0.65	0.00	0.15
Avail Cap (c_a), veh/h	0	1241	0	519	0	1051	0	680
Upstream Filter (I)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
Uniform Delay (d1), s/veh	0.0	26.7	0.0	43.2	0.0	37.3	0.0	25.3
Incr Delay (d2), s/veh	0.0	0.8	0.0	3.9	0.0	3.1	0.0	0.5
Initial Q Delay (d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Delay (d), s/veh	0.0	27.5	0.0	47.1	0.0	40.4	0.0	25.8
1st-Term Q (Q1), veh/ln	0.0	5.1	0.0	8.4	0.0	9.9	0.0	2.2
2nd-Term Q (Q2), veh/ln	0.0	0.1	0.0	0.6	0.0	0.5	0.0	0.1
3rd-Term Q (Q3), veh/ln	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile Back of Q Factor (f_B%)	0.00	1.00	0.00	1.00	0.00	1.00	0.00	1.00
%ile Back of Q (50%), veh/ln	0.0	5.3	0.0	8.9	0.0	10.3	0.0	2.3
%ile Storage Ratio (RQ%)	0.00	1.03	0.00	0.23	0.00	2.28	0.00	0.12
Initial Q (Qb), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Final (Residual) Q (Qe), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Delay (ds), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Q (Qs), veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sat Cap (cs), veh/h	0	0	0	0	0	0	0	0
Initial Q Clear Time (tc), h	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 7th Control Delay, s/veh	46.1
HCM 7th LOS	D

Appendix C
Count Station Data

JUNE LAKE/BUCKNER- AADT GROWTH								
230			229			231		
Buckner Rd			Buckner Ln			Campbell Station Pkwy		
AADT 2024	10,780	3%	AADT 2024	10,357	-9%	AADT 2024	9,986	-6%
AADT 2023	10,435	6%	AADT 2023	11,362	3%	AADT 2023	10,616	8%
AADT 2022	9,866	-3%	AADT 2022	10,984	7%	AADT 2022	9,865	-9%
AADT 2021	10,162	14%	AADT 2021	10,252	31%	AADT 2021	10,867	72%
AADT 2020	8,910	14%	AADT 2020	7,854	-37%	AADT 2020	6,317	-33%
	5 YR AVG	6.842%		5 YR AVG	-1.094%		5 YR AVG	6.406%

Average	4.1%
Selected	4.5%

Appendix D
RPM Trip Generation

Project:	2660 Buckner Lane Rezoning		**Intersection Distribution & Assignment Worksheet**											
Scenario:	Full Buildout (Assumes Interchange)		**Buckner Rd / Buckner Extension**						**Buckner Lane**					
Int #:	3		Eastbound			Westbound			Northbound			Southbound		
	Trip Generation	Land Use	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Enter	Enter Distribution	Resi Dist	5%	10%	5%					5%	5%			
		Ret/Rest Dist	5%	15%			-30%				10%	10%		
		Ret/Rest Passby Dist												
		Office Dist		19%						5%	9%			
		Hotel Dist		10%	10%						10%			
	AM 300	Resi Assign	15	30	15	0	0	0	0	15	15	0	0	0
	AM 646	Ret/Rest Assign	32	97	0	0	-194	0	0	0	65	65	0	0
	AM 0	Ret/Rest Passby Assign	0	0	0	0	0	0	0	0	0	0	0	0
	AM 2697	Office Assign	0	512	0	0	0	0	0	135	243	0	0	0
	AM 120	Hotel Assign	0	12	12	0	0	0	0	0	12	0	0	0
	AM 3763	AM Total Enter	47	651	27	0	-194	0	0	150	335	65	0	0
	PM 509	Resi Assign	25	51	25	0	0	0	0	25	25	0	0	0
	PM 1025	Ret/Rest Assign	51	154	0	0	-308	0	0	0	103	103	0	0
	PM 342	Ret/Rest Passby Assign	0	0	0	0	0	0	0	0	0	0	0	0
	PM 688	Office Assign	0	131	0	0	0	0	0	34	62	0	0	0
	PM 51	Hotel Assign	0	5	5	0	0	0	0	0	5	0	0	0
	PM 2615	PM Total Enter	76	341	30	0	-308	0	0	59	195	103	0	0
Exit	Exit Distribution	Resi Dist				5%	10%		5%				5%	5%
		Ret/Rest Dist				10%	15%	10%						5%
		Ret/Rest Passby Dist					30%							
		Office Dist				9%	19%						5%	
		Hotel Dist				10%	10%		10%					
	AM 889	Resi Assign	0	0	0	44	89	0	44	0	0	0	44	44
	AM 526	Ret/Rest Assign	0	0	0	53	79	53	0	0	0	0	0	26
	AM 0	Ret/Rest Passby Assign	0	0	0	0	0	0	0	0	0	0	0	0
	AM 135	Office Assign	0	0	0	12	26	0	0	0	0	0	7	0
	AM 2	Hotel Assign	0	0	0	0	0	0	0	0	0	0	0	0
	AM 1552	AM Total Exit	0	0	0	109	194	53	44	0	0	0	51	70
	PM 346	Resi Assign	0	0	0	17	35	0	17	0	0	0	17	17
	PM 803	Ret/Rest Assign	0	0	0	80	120	80	0	0	0	0	0	40
	PM 268	Ret/Rest Passby Assign	0	0	0	0	80	0	0	0	0	0	0	0
	PM 3419	Office Assign	0	0	0	308	650	0	0	0	0	0	171	0
	PM 61	Hotel Assign	0	0	0	6	6	0	6	0	0	0	0	0
	PM 4897	PM Total Exit	0	0	0	411	891	80	23	0	0	0	188	57
		AM Total Assign	**47**	**651**	**27**	**109**	**0**	**53**	**44**	**150**	**335**	**65**	**51**	**70**
		PM Total Assign	**76**	**341**	**30**	**411**	**583**	**80**	**23**	**59**	**195**	**103**	**188**	**57**

RPM Transportation Consultants, LLC 12/13/2016

REQUEST:	***Ordinance 25-xx***
SUBMITTED BY:	**Dara Sanders, Development Services Director**
DATE:	**July 7, 2025**
RE:	**Spring Hill Towne Crossing Planned Development Amendment**

BACKGROUND:

The Spring Hill Towne Crossing project is located at the southeast quadrant of the Port Royal/Saturn Parkway interchange. The City approved a Planned Development proposal for the project in February of 2021 by Ordinance 20-21. The property has been subdivided for several commercial lots and an apartment complex, and the project has completed several street improvements required by the project approval to Port Royal Road and the new JW Parkway.

On June 13, 2022, the Planning Commission approved a modification to the Planned Development to allow for an additional drive-through facility in the project without requiring a Special Use Permit. The Planned Development's base zoning of C-4 requires Board of Zoning Appeals (BZA) approval of a special use permit for a drive-through facility, which includes financial establishments (banks). The original Planned Development approval allowed for one drive-through facility by-right. This type of modification exceeds the Unified Development Code threshold for modifications eligible for staff or Planning Commission approval; therefore, the proposal requires BOMA approval.

This procedural oversight was discovered by current staff when a site plan application for a bank with a drive-through was submitted for the property subject to the modification. Staff has continued to process the application and presented it to the Planning Commission for consideration based on the requirement that either the BOMA approve a major modification to the Planned Development or if the BZA approves a special use permit to allow for the drive-through facility.

PROPOSAL:

The Spring Hill Towne Crossing project proposes to amend their Planned Development to allow for a second drive-through facility by-right.

DISCUSSION:

Staff finds that the proposal would not create a negative impact if conditioned appropriately. The current proposal for a financial institution with a drive-through facility is not anticipated to create a negative impact on street capacity or levels of service, so staff did not require a traffic study with this modification request. Should the property be developed or redeveloped for a drive-through restaurant in the future, staff will require a traffic study to evaluate the project's impact.

REQUEST:	***Resolution 25-xx***
SUBMITTED BY:	**Dara Sanders, Development Services Director**
DATE:	**July 7, 2025**
RE:	**Joint Agreement with Smyrna Ready Mix**

BACKGROUND:

The site is located at 3704 and 3726 Old Port Royal Road, at the northeast intersection of Jim Warren Road and Old Port Royal Road, and it has been developed for a concrete plant operated by Smyrna Ready Mix. The business received Planning Commission and Board of Zoning Appeals approval on November 19, 2024, for a new office and vehicle maintenance building.

Only two properties rely on Old Port Royal Road for access – the concrete plant and a vacant commercial lot part of Spring Hill Towne Crossings. The roadway condition of Old Port Royal is very poor, and the majority of the roadway is gravel.

The concrete plan expressed interest in abandoning a portion of Old Port Royal Road to provide better security and access control for their site, and the City needs to obtain right-of-way along the property's frontage on Jim Warren Road for improvements to the Jim Warren/JW Parkway intersection.

PROPOSAL:

Staff proposes a joint agreement between the City and the owners of 3704 and 3726 Old Port Royal Road to facilitate a land swap – the City would abandon a portion of Old Port Royal Road, and the property owner will dedicate right-of-way along Jim Warren Road.

DISCUSSION:

City staff have worked with Corradino to determine the amount of right-of-way needed for the Jim Warren/JW Parkway intersection improvements, and we have determined the appropriate terminus of Old Port Royal right-of-way based on an approved site plan for the vacant commercial lot.

The attached agreement allows the portion of Old Port Royal Road to be abandoned to become part of 3704 and 3726 Old Port Royal Road. Instead of requiring Planning Commission approval per the Unified Development Code procedural requirement, it gives the Development Services Director the ability to administratively approve a final plat to complete the abandonment and accept the right-of-way.

JOINT AGREEMENT BETWEEN HOLLINGSHEAD MATERIALS, LLC, SMYRNA READY MIX CONCRETE, LLC, AND THE CITY OF SPRING HILL, TN

This agreement, entered into this _____ day of _____, 2025, by and between Hollingshead Materials, LLC, at Tennessee limited liability company, the owner of a portion of the real property described herein (hereinafter "Hollingshead"), and Smyrna Ready Mix Concrete, LLC, a Tennessee limited liability company, the owner of a portion of the real property described herein described herein (hereinafter "SRM" and collectively with Hollingshead, the "Developer") and the City of Spring Hill, Tennessee, a municipal corporation organized and existing under the laws of the State of Tennessee, hereinafter referred to as "City".

WITNESSETH:

WHEREAS, Hollingshead is the owner of that certain real property located at 3704 Old Port Royal Road S., Spring Hill, Tennessee 37174 (the "Hollingshead Parcel");

WHEREAS, SRM is the owner of that certain real property located at 3726 Old Port Royal Road S., Spring Hill, Tennessee 37174 (the "SRM Parcel");

WHEREAS, the City of Spring Hill and Developer have committed to enter into a joint agreement to swap right-of-way located at Old Port Royal Road and Jim Warren Road along the Hollingshead Parcel and the SRM Parcel, hereinafter collectively referred to as the "Subject Property";

WHEREAS, the City has agreed to abandon a portion of Old Port Royal Road right-of-way to be conveyed to the respective owners of the Subject Property, as shown on the attached Exhibit A (the "Abandoned Right-of-Way");

WHEREAS, the Developer has agreed to dedicate right-of-way for the Subject Property's full length of frontage along Jim Warren Road to the City, as shown on the attached Exhibit A (the "Dedicated Right-of-Way");

WHEREAS, Old Port Royal Road along the Subject Property's frontage is not necessary for a complete and connected street network and provides access primarily for the Subject Property; and

WHEREAS, abandonment of Old Port Royal Road right-of-way will remove the City's obligation to maintain a roadway serving only one industrial development.

NOW, THEREFORE, in consideration of the mutual covenants and assurances set forth herein, the Developer and City do hereby agree as follows:

1. **Recitals**

The foregoing Recitals are incorporated into this Agreement and are made a part hereof.

2. Developer's Responsibilities

A. The Developer shall prepare a final plat to dedicate Dedicated Right-of-Way to the City shown in Exhibit A attached hereto and to include a new legal description of the Subject Property to reflect Abandoned Right-of-Way, subject to Developer's approval. The Developer shall obtain all required signatures on all required copies. The Unified Development Code requirement to submit a final plat application and associated fee for Planning Commission action is hereby waived, and the final plat shall be subject to administrative approval by the Development Services Department.

B. The Developer or their assigns, including future property owners, shall have the right to secure or limit access to the Subject Property; however, all public utility providers and emergency responders shall be granted access as needed to the Public Utility Drainage Easement ("PUDE") through installation of a Knox Box or other similar emergency key box reasonably acceptable to the City.

3. City's Responsibilities

A. The City shall abandon by Ordinance the Abandoned Right-of-Way to become part and parcel of the Subject Property. Further the Abandoned Right-of-Way shall remain in a PUDE for the purpose of maintaining existing and/or future public utilities. The Unified Development Code requirement to submit an application and associated fee to abandon right-of-way is hereby waived.

B. The City shall record the signed final plat and provide the Developer with a recorded original.

C. Upon recordation of the plat, the City shall deed, by Quitclaim Deed, the Abandoned Right-of-Way to each respective Developer.

D. Upon recordation of the plat, the Developer shall deed, by Quitclaim Deed, the Dedicated Right-of-Way to the City.

4. Agents for the City

The Agent of the City for the purposes of this Agreement is the City Administrator of Spring Hill, Tennessee, or their designee. The agent for the Developer is Brian Hercules, or his designee.

5. Notices and Communication

All notices or other communications hereunder shall be deemed sufficiently given and shall be deemed given when delivered by hand or delivery or mailed by first class, postage prepaid, registered, or certified mail and addressed as follows:

Office of City Administrator of Spring Hil, TN
P.O. Box 789
199 Town Center Parkway
Spring Hill, TN 37174

With a copy to:

Patrick Carter, City Attorney
809 South Main Street, Suite 100
Columbia, TN 38401

And

Dara Sanders, Development Services Director
8060 Station Hill Drive
Spring Hill, TN 37174

The mailing address of the Developer for the purposes of notification requirements of this Agreement shall be:

Hollingshead Materials, LLC
Smyrna Ready Mix Concrete, LLC
1000 Hollingshead Circle
Murfreesboro, Tennessee 37129
Attn: Legal Department

6. Non-Waiver

None of the terms, covenants, or conditions of this Agreement shall be deemed waived by any act of either Party unless same is specified in writing executed by all Parties hereto.

7. Liability

The City shall have no liability except as specifically provided in this Agreement. Developer shall otherwise indemnify and hold the City harmless from any and all claims, losses, damages, and lawsuits arising out of the transaction contemplated in this Agreement.

8. Governing Law

This Agreement shall be construed under and enforced pursuant to the laws of the State of Tennessee.

9. Venue and Jurisdiction

Exclusive venue and jurisdiction for any litigation brought pursuant to or with regard to this Agreement shall be in the Circuit Court for Maury County, Tennessee.

10. Severance

Should any provision of this Agreement be declared invalid, illegal, or unenforceable by a court of competent jurisdiction, the invalidity, illegality, or unenforceability shall not affect other provisions of the Agreement, which shall remain in full force and effect.

11. Captions

Captions of the sections of this Agreement are for convenience and reference only and shall in no way be held to explain, modify, amplify, or aid in the interpretations, construction, or meaning of the provisions of this Agreement

12. Amendment

This Agreement shall be amended only in writing executed by all Parties hereto.

13. Assignment

This Agreement shall not be assigned by the Developer to a third party without prior written consent of the City, which shall not be unreasonably withheld.

14. Binding Effect

This Agreement shall be binding upon each of the parties hereto, their successors, heirs and assigns and that there are no understandings or agreements between them except as contained in this Agreement.

15. Entire Agreement

This writing constitutes the entire agreement between the Parties and supersedes all previous agreements, if any. No Party to this Agreement makes any representation to the other Party, except as expressly set forth in this Agreement.

16. Attorney's Fees

In the event of a breach in the performance of any of the provisions of this Agreement or any of the documents related thereto by either Party, the defaulting Party shall pay the reasonable attorney's fees and court costs of the non-defaulting Party associated with the enforcement of any of the provisions of any such document or this Agreement.

17. Execution

This Agreement may be executed in one or more identical counterparts, each of which shall be deemed to be an original for all purposes, and all of which taken together shall constitute a single instrument.

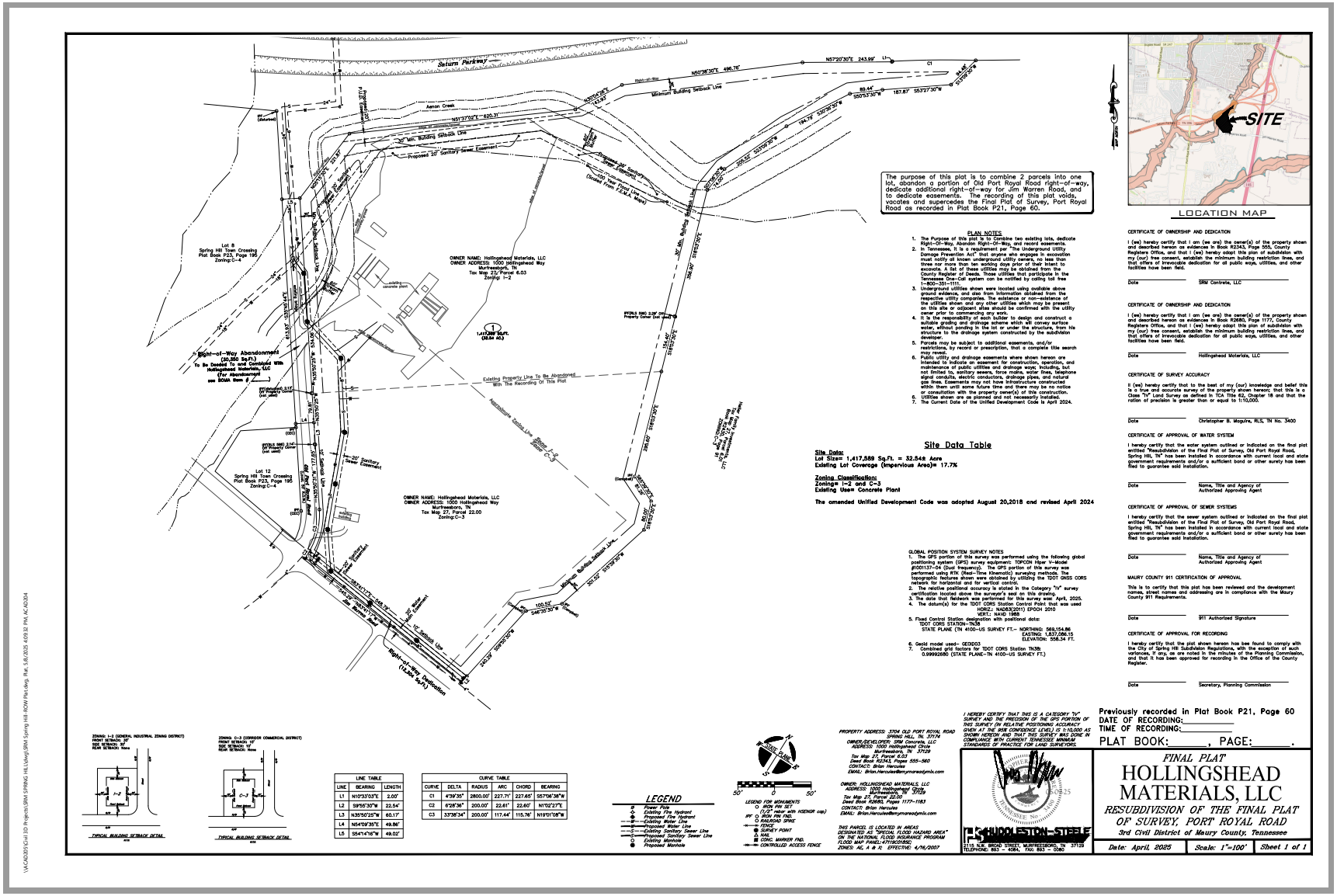
IT IS SO AGREED by the undersigned Parties as of the date first written above (the "**Effective Date**" of this Agreement).

DEVELOPER:	CITY:
HOLLINGSHEAD MATERIALS, LLC	CITY OF SPRING HILL, TENNESSEE
By:_____ Jeff Hollingshead, Chief Executive Officer	By:_____ MATT FITTERER, Mayor
Date:_____	Date:_____

SMYRNA READY MIX CONCRETE, LLC

By: _____
Jeff Hollingshead, Chief Executive Officer

Date: _____


Saturn Parkway
Aaron Creek
Lot 8
Spring Hill Town Crossing
Plat Book P23, Page 195
Zoning:C-4
Lot 12
Spring Hill Town Crossing
Plat Book P23, Page 195
Zoning:C-4
OWNER NAME: Hollingshead Materials, LLC
OWNER ADDRESS: 1000 Hollingshead Way
Murfreesboro, TN
Tax Map 27, Parcel 6.03
Zoning: I-2
OWNER NAME: Hollingshead Materials, LLC
OWNER ADDRESS: 1000 Hollingshead Way
Murfreesboro, TN
Tax Map 27, Parcel 22.00
Zoning:C-3
Right-of-Way Abandonment
(30,550 Sq.Ft.)
To Be Deeded To and Combined With
Hollingshead Materials, LLC
(For Abandonment
see BOMA Item #)
Existing Property Line To Be Abandoned
With The Recording Of This Plat
Approximate Zoning Line Between I-2 and C-3
1,417,589 Sq.Ft.
(32.54 AC.)
Proposed 20' Sanitary Sewer Easement
Existing 20' Sanitary Sewer Easement
30' Min. Building Setback Line
Minimum Building Setback Line
Right-of-Way Dedication
(12,366 Sq.Ft.)
Jim Warren Road
Existing Property Line To Be Abandoned
With The Recording Of This Plat
Existing Property Line To Be Abandoned
With The Recording Of This Plat
Proposed 20' Sanitary Sewer Easement
Existing 20' Sanitary Sewer Easement
Minimum Building Setback Line
Right-of-Way Dedication
(12,366 Sq.Ft.)
Jim Warren Road

Spring Hill Centrifuge-Based Solids Facility Design

Basis of Design Report

Carollo Engineers, I.C. Thomasson Associates,
Geo/Structural Services Group LLC, and Cornerstone Engineering

July 2025 / DRAFT

Spring Hill Centrifuge-Based Solids Facility Design

Basis of Design Report

Carollo Engineers
I.C. Thomasson Associates
Geo/Structural Services Group LLC
Cornerstone Engineering

July 2025 / DRAFT

This document is released for the purpose of information exchange review and planning only under the authority of Jason Bret Ogg, July 2025, State of Tennessee, PE# 122199.

3100 WEST END AVENUE, SUITE 850 ▪ NASHVILLE, TENNESSEE 37203 ▪ P 615-386-9090

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Abbreviations

ACH	air changes per hour
ADA	Americans with Disabilities Act
AGA	American Gas Association
ANSI	American National Standards Institute
ASHRAE	American Society of Heating, Refrigeration, and Air Conditioning Engineering
BABA	Build America Buy America
BFP	belt filter presses
BOP	balance of plant
C	Celsius
Carollo	Carollo Engineers
cfh	cubic foot per hour
City	City of Spring Hill
CMU	concrete masonry unit
cu ft	cubic foot
D	Default
DIP	ductile iron pipe
DREMC	Duck River
DX	direct expansion
EF	Enhanced Fujita
EPS	extracellular polymeric substances
F	Fahrenheit
FACP	fire alarm control panel
fpm	feet per minute
fps	feet per second
FRP	fiberglass reinforced plastic
ft	foot(feet)
gpd	gallons per day
gph	gallons per hour
gpm	gallons per minute
hp	horsepower
HVAC	heating, ventilation, and air-conditioning
IBC	International Building Code
IEBC	International Existing Building Code
IECC	International Energy Conservation Code
IFC	International Fire Code
IFGC	International Fuel Gas Code
IPC	International Plumbing Code

IMC	International Mechanical Code
kV	kilovolt
lb	pound(s)
lb/cu ft	pounds per cubic foot
MCC	motor control center
mgd	million gallons per day
MOPO	Maintenance of Plant Operations
mph	miles per hour
MSB	main switchboard
NEC	National Electrical Code
NFPA	National Fire Protection Association
No.	number
NWS	National Weather Service
O/A	outside air
PLC	programmable logic controller
pph	pounds per hour
PPU	positive pressurization unit
psf	pounds per square foot
psi	pounds per square inch
PVC	polyvinyl chloride
rpm	revolutions per minute
RGS	rigid galvanized steel
SCADA	supervisory control and data acquisition
SCM	stormwater control measure
SMACNA	Sheet Metal and Air Conditioning Contractors' National Association
TDEC	Tennessee Department of Environment and Conservation
TS	total solids
TSS	total suspended solids
UPS	uninterruptible power supply
UDC	Unified Development Code
V	volt
VFD	variable frequency drive
WAS	waste activated sludge
WWTF	wastewater treatment facility
WWTP	wastewater treatment plant

SECTION 1 PROCESS MECHANICAL

1.1 Background

The City of Spring Hill (City) currently owns and operates the Spring Hill Wastewater Treatment Plant (WWTP) located in Spring Hill, Tennessee. The WWTP has a influent current capacity of 5 million gallons per day (mgd) and a future capacity of 10 mgd. The WWTP utilizes oxidation ditches, secondary clarification, and aerobic digestion for biological treatment. Currently, belt filter presses are used for dewatering but are nearing the end of their useful life and do not have the capacity required for future dewatering needs. The preferred direction of the City is to replace the belt filter presses with decanter centrifuges.

The decanter centrifuge is a proven dewatering technology that can address the capacity needs and produce a drier cake than belt filter presses. Sludge cake with a concentration of 13 to 17 percent total solids (TS) is typically produced by belt filter presses compared to 18 to 25 percent TS for centrifuges. Centrifuges require more polymer to produce a high quality centrate and more power than belt filter presses. Dewatering in a centrifuge is achieved by a high-speed rotating bowl that generates centrifugal force. Inside the bowl, a scroll (or screw conveyor) rotates at a slightly different speed than the bowl, conveying the denser solids toward the conical end for discharge. The centrifugal force separates solids from liquids, with solids accumulating on the bowl wall and liquids flowing out the opposite end, resulting in effective dewatering.

Given the limited space within the existing dewatering facility, both floor space and height limitations, the City has elected to construct a new facility specifically designed to accommodate centrifuges and meet both current and future dewatering needs. A process flow diagram is presented in Figure 1.

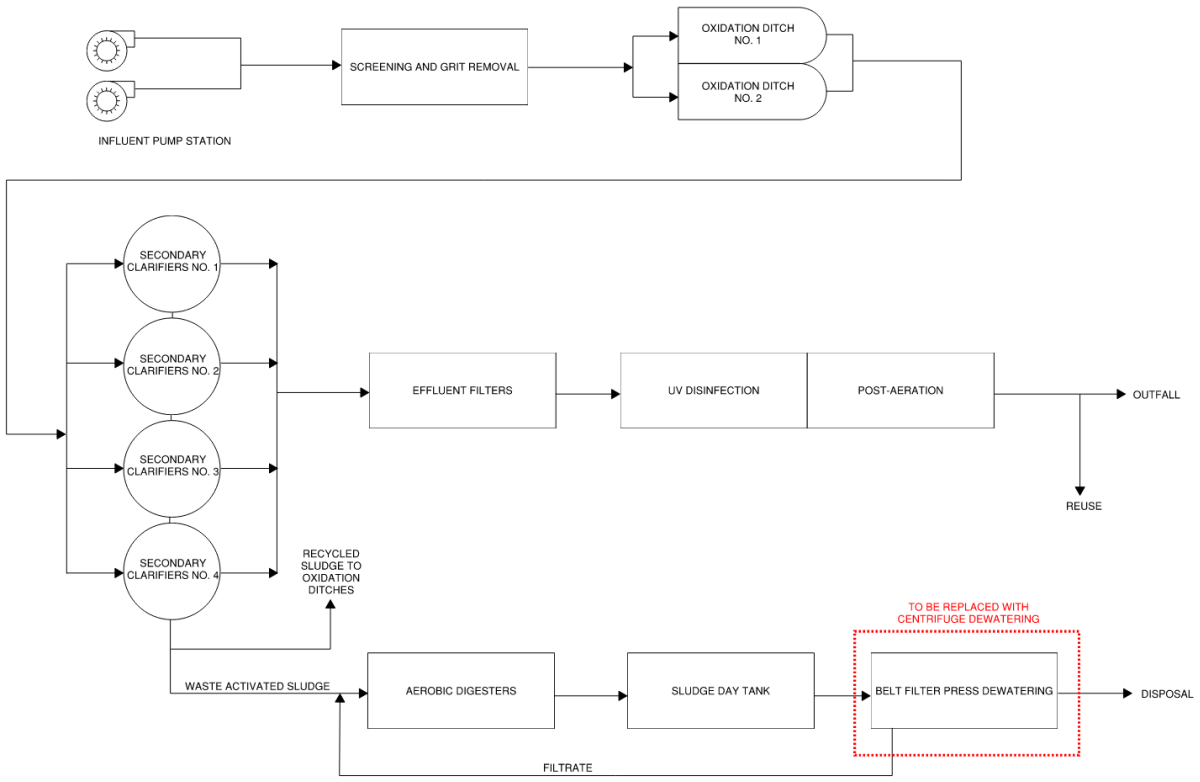


Figure 1 Overall Process Flow Diagram for City of Spring Hill Wastewater Treatment Plant

1.2 Data Analysis

Data was provided by the City, which included the following parameters that were primarily used to determine equipment sizing and understanding sludge characteristics:

- Waste activated sludge (WAS) flow.
- WAS solids concentration.

The data provided included both handwritten values and values obtained from instrument readings. Instrument readings were provided for instantaneous WAS flow from 2022 through February 2025. Handwritten values were provided for daily WAS flow and solids concentration data, which spanned from January 2024 through February 2025. The handwritten values and instrument reading values for WAS flow largely correlated with each other. Operators noted that sludge was wasted intermittently, which was also reflected in the recorded data.

Although the instrument readings cover a longer time span, the handwritten values from January 2024 to February 2025 were used for equipment sizing because they include corresponding solids concentration data for each recorded flow value. Table 1 below summarizes the WAS flow data used to determine the centrifuge hydraulic and solids loading.

Table 1 WAS Flow Data Summary

Parameter	WAS Flow (gpd)(1)
Average Annual(2)	52,500
Maximum Month(3)	84,200
Maximum 2-Week(4)	103,500
Maximum Week(5)	120,800

Notes:
(1) Historical data from January 2024-February 2025.
(2) The average value calculated over a calendar year.
(3) The maximum 30-day average value.
(4) The maximum 14-day average value.
(5) The maximum 7-day average value.
Abbreviations: gpd – gallons per day

The two aerobic digesters also provide some hydraulic detention upstream of the dewatering process, essentially creating a "wide spot" in the line, and will dampen higher WAS flows. The digesters have a volumetric capacity of 745,000 gallons per digester, which provides 6 to 12 days of storage under maximum week conditions, depending on whether one or both digesters are online. Since higher flows can be stored in the digester for about a week, the maximum 2-week condition will be used for equipment sizing at the peak condition.

WAS flow data is used in conjunction with WAS solids concentration to calculate WAS solids mass loading rate to the centrifuge. The WAS solids concentration is listed in Table 2 below.

Table 2 WAS Solids Concentration Data Summary

Parameter	WAS TSS Concentration (%)
2024 Average Annual(1)	1.84
2025 Average Annual(2)	2.28
2024-2025 Average Annual	1.90

Notes:
(1) Average value reflects data from January to December 2024.
(2) Average value reflects data from January to February 2025.
Abbreviations: TSS – total suspended solids

Operators indicated that they waste sludge intermittently and typically need to manually control the wasting to increase solids concentration. Operators also noted that at times, they would thicken the sludge by turning off the aerators to allow sludge to settle and tanks decanted.

Due to the high variance in flow and solids concentration, operation staff agreed with the following guidelines that were used for centrifuge sizing:

- Target 50 percent centrifuge deration for average annual condition to maximize performance.
- Target 60 percent centrifuge deration for the peak condition.
- The peak condition is based on the maximum 2-week WAS flow condition.
- The WAS TSS concentration to be used for equipment sizing is 1.90 percent across all scenarios.
- Recommend standby centrifuge at peak loading conditions.

Deration of centrifuge capacity from its nameplate loading is necessary to accommodate the sludge characteristics such that the centrifuges will consistently meet performance. Typically, 60 to 75 percent deration is recommended for anaerobically digested sludge, while 50 to 60 percent deration is recommended for WAS and aerobically digested sludge, which is more difficult to dewater due to the presence of extracellular polymeric substances (EPS), which create water-bound structures within the sludge.

The following current and future conditions used for equipment sizing are listed in Table 3 below.

Table 3 Current and Future Projections for Equipment Sizing

Parameter	Current(1)	Future (Projected)
Average Annual Influent Flow (mgd)	4.2	10.0
Average Annual WAS (gpd)	52,500	124,500
Max 2-week WAS (gpd)	103,500	245,100
Average Concentration (%TS)	1.9	1.9

Notes:
(1) Historical data from January 2024 through February 2025.

1.3 Dewatering Centrifuges

The centrifuges will operate in a duty/standby configuration with one centrifuge, and associated equipment, being fully redundant. One duty centrifuge is required for current flows and loads, and an additional duty centrifuge is necessary in the future. A redundant unit is recommended for centrifuge operation due to the need for centrifuge maintenance. The centrifuge scroll must be removed after approximately 6,000 to 12,000 hours of operation and shipped back to the factory for retiling, a process that takes 6-8 weeks, therefore a redundant unit is recommended to ensure continuous operation. A 15-ton bridge crane and equipment access opening located on the second floor of the new dewatering building would be provided to allow equipment lifting and removal. Table 4 shows the centrifuge design criteria.

Table 4 Centrifuge Design Criteria

Parameter	Current		Future	
	Average Day	Max 2-Week	Average Day	Max 2-Week
No. of Centrifuges (duty + standby)(5)	1+1	1+1	2+1	2+1
Nominal Centrifuge Bowl Size (in)	26	26	26	26
Centrifuge sludge feed flow (gpm)(1)	175	210	175	210
Centrifuge sludge load (dry lb/hr)	1,750	2,100	1,750	2,100
Feed solids concentration (%TS)	1.9	1.9	1.9	1.9
Cake performance (%TS)	18-20	18-20	18-20	18-20
Centrifuge capture (%)	>95	>95	>95	>95
Centrifuge Deration (%)(2)	50	60	50	60
Operating Days per Week	5	5	5	5
Operating Hours per Day(3)	7	12	8	14
Main Drive Motor Size (HP)(4)	150	150	150	150
Scroll Drive Motor Size (HP)(4)	40	40	40	40

Notes:
(1) Each duty centrifuge.
(2) Nominal de-ration of centrifuge nameplate capacity to optimize performance.
(3) Does not include 15-30 minute start up and shutdown time.
(4) Motor size reflects the largest combined motor size offered by the manufacturers for a 26-inch bowl.
(5) All centrifuges will be capable of operating as duty units if the City elects to reduce operating hours to meet staffing needs.

The City elected to not use hydraulic drive units for the dewatering centrifuge, a drive system used by the centrifuge manufacturer Centrisys. Instead, the City preferred the use of variable frequency drives for the main and scroll drive. The following centrifuge manufacturers have models that meet that criteria as well as the design criteria in Table 4:

- Alfa Laval.
- Andritz.
- Flottweg.
- GEA Westfalia.

The lead time for these units varies between 32 and 40 weeks following submittal approval. All manufacturers above currently meet Build America Buy America (BABA) requirements or will be fully compliant with BABA prior to construction.

1.4 Centrifuge Feed Pumps

The existing dewatering feed pumps are located in the existing Dewatering Building. The pumps pull from the existing sludge storage day tank to feed the belt filter presses. The existing pumps are Moyno progressive cavity pumps with a capacity of 210 gpm. The new centrifuges will require a flow rate of 210 gpm of sludge and a higher pressure than the existing pumps can provide due to backpressure at the centrifuge inlet. Table 5 shows the design criteria for the centrifuge feed pumps.

Table 5 Centrifuge Feed Pump Design Criteria

Parameter	Current	Future
No. of Pumps (duty + standby)	1+1	2+1
Pump Type	Progressive Cavity	Progressive Cavity
Centrifuge sludge feed flow (gpm)	210	210
Suction/Discharge Diameter (in)	6	6
Motor Horsepower	15	15
Motor Driver	Variable	Variable

Positive displacement pumps are well-suited for sludge pumping, due to their ability to maintain consistent pressure with increasing flow or fluid viscosity. Progressive cavity pumps utilize a helical screw rotor that pushes material through cavities created by the rotating screw and flexible stator, which is made of rubber, NBR, or EPDM. This is the current pump used at the existing Dewatering Building and also the recommended pump for the future centrifuges.

A TS sensor will be installed to more accurately and consistently track WAS total solids concentration. These sensors can also be effective to assist fine-tuning of the polymer feed to facilitate accurate dosage and prevent overfeeding polymer, which in turn saves polymer cost. Valmet and Cerlic are manufacturers of the microwave-type TS sensor. The sensor measures the velocity of microwave propagation through the process fluid. The microwave signal depends on the dielectric constant of the process fluid, which then translates into a TS concentration value. To maintain accuracy, the instrument needs to be calibrated weekly by plant staff, consistent feed sludge temperature maintained, and flushing (typically with hot water) provided to remove greases accumulated on instrument interior.

There are two ways to feed the centrifuges that are being considered for this project, and are as follows:

1. Common sludge feed line from centrifuge feed pumps to common centrifuge feed header:
    a. Common TS sensor.
    b. Individual flow meter and flow control valves for each centrifuge.
2. Individual sludge feed lines from centrifuges feed pumps to centrifuges:
    a. Individual flow meter and TS sensors for each centrifuge.
    b. No flow control valves.

Net construction costs for each control option are nominally identical. The common feed header strategy (#1) requires more complicated controls due to the adjusting both flow control valve position and centrifuge feed pump speed. Individual feed pipe strategy (#2) has more direct controls due to allowing centrifuge feed flow to be adjusted based directly on centrifuge feed pump speed but requires more calibration and maintenance effort for the extra TS sensor. The preliminary design for this project assumes the common feed header strategy is used. See Figure 2 for the dewatering process flow diagram.

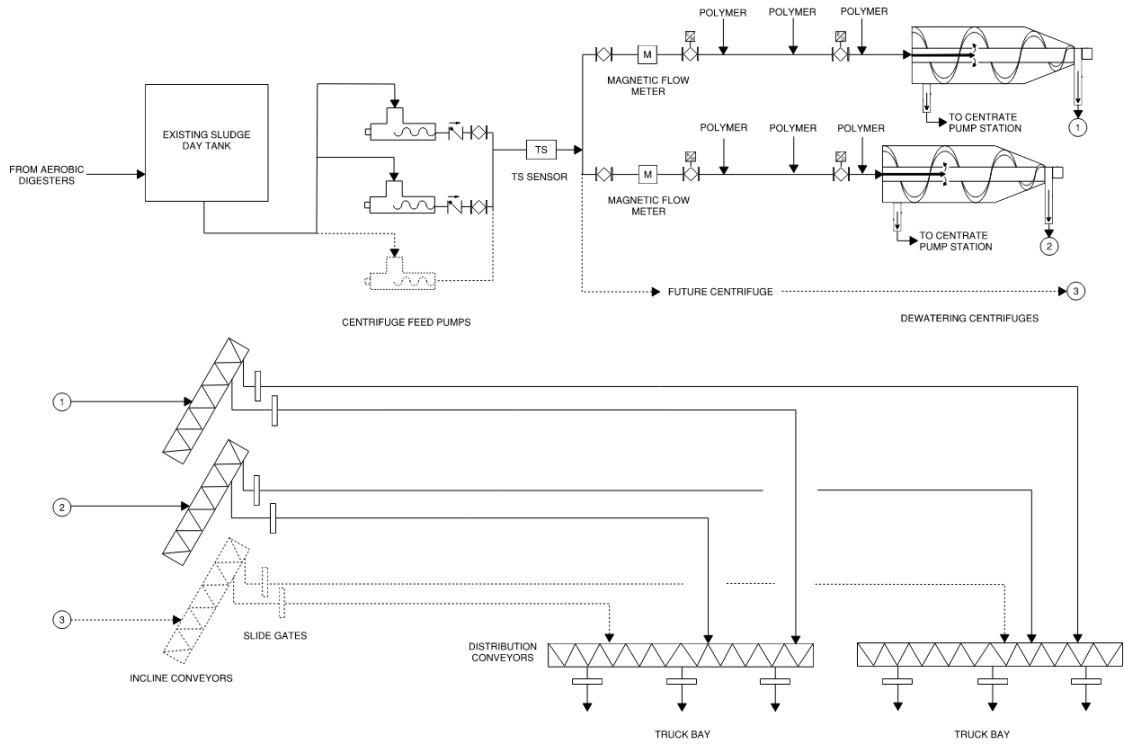


Figure 2 Overall Proposed Solids Process Flow Schematic

1.4.1 Sludge Storage Day Tank

The existing sludge storage day tank, which has a capacity of 44,000 gallons and is located next to the existing Dewatering Building. This tank will remain with the installation of the new dewatering building, which provides flow equalization prior to feeding the centrifuges. Placing flow equalization prior to feeding centrifuges is considered best practice to facilitate a steady feed to the centrifuges. The pipe from the day tank to the existing dewatering building is a 6-inch ductile iron pipe line. Flows through that pipe will range from 175 gpm to 630 gpm depending on the number of centrifuges operating at startup and in the future. That will induce a velocity of 2 to 7 feet per second (fps) in that line. If three centrifuges are operated consistently in the future, it is recommended that the line be replaced with an 8-inch line (at minimum) to maintain velocities in the suction pipe below 6 fps. For near term operation however, the line is acceptable (2 to 5 fps). The condition of this line should be evaluated and the pipe cleaned during construction to prevent potential startup issues.

1.5 Polymer Storage and Feed

Polymer is used to enhance solids separation by facilitating flocculation of solids prior to dewatering. A polymer solution, a combination of water and neat polymer, is introduced upstream of the centrifuge in up to three locations located: at the centrifuge, and 25 and 50 feet upstream of the centrifuge. Dosing location is typically set at startup where the best performance is observed.

1.5.1 Polymer Storage

The polymer storage system consists of 275-gallon polymer totes containing emulsion polymer, containment pallets, and weigh scales located on the ground floor of the new dewatering building. The content of the totes will be monitored at SCADA through the weigh scales. Tote replacement will be by forklift through the roll-up door located next to the tote station. Each tote provides two to almost four operating days of polymer per duty centrifuge, depending on actual polymer usage. Though not included in this phase, the building will be designed to hold two 1,500 gallon neat polymer storage tanks and associated mixing pumps for the tanks. The future tanks will provide eight to nine operating days of polymer (assuming two centrifuges are operational).

1.5.2 Polymer Blending

Totes (or future tanks) will supply neat polymer to the polymer blend units. Each centrifuge will have a dedicated polymer blend unit with the ability to manually cross over the discharge to the other centrifuge and re-assign the polymer unit to the other centrifuge unit in SCADA. The polymer blender unit consists of a mixing chamber, neat polymer feed pump, dilution water injection points (primary and secondary) and necessary valves and instrumentation to detect failure of water or polymer delivery. The controls for the polymer blender units range from nearly full dependence on Plant SCADA, including manual dilution water flow control to a unit with full PLC control with automatic dilution water flow control. In either case, the neat polymer feed pump speed and flow are modulated with a variable frequency drive on the blender unit. At this size of facility, a unit with full PLC control is recommended.

The polymer area will have a sump and fiberglass reinforced plastic grating to provide both containment for polymer spills and mount polymer and water piping to eliminate potential tripping hazards. Sump will be sloped to collect in a deeper sump for pumping with a portable pump. Draining polymer through a passive drain to the plant drain system is not recommended because it can lead to clogged pipes and pumping issues as solids within that plant interact with the polymer. The grating will be flush with the surrounding floor, foregoing curbs or elevated surfaces that might obstruct access and cause a tripping hazard. A flood alarm in the sump area will alert staff to a significant polymer leak. See Table 6 for polymer storage and feed design criteria.

Table 6 Polymer Storage and Feed Pump Design Criteria

Parameter	Current	Future
No. of Polymer Feed Units (duty + standby)	1+1	2+1
Type	Emulsion	Emulsion
Storage Volume	275-Gallon Tote	1500-Gallon Bulk Storage Tank
No. of Totes	2	2 (optional)
No. of Bulk Storage Tanks	0	2
Operating Days of Storage	7	17
No. of Polymer Tank Mixing Pump	0	2
Polymer Dosage (lb active polymer/dry ton of sludge)	25 - 45	25 - 45
Neat Polymer Concentration (% neat)(2)	0.30 – 0.75	0.30 – 0.75
Neat Polymer Flow Rate (gph)(1,2)	1.5 - 15	1.5 - 15
Polymer Dilution Water Flow Rate (gph)(1,2)	600 - 6000	600 - 6000

Notes:
(1) Each duty blender/centrifuge.
(2) Assume neat polymer has an active concentration of 40 percent.

1.6 Cake Conveyance

For the new dewatering building, an inclined shaftless screw conveyor will be installed to capture cake from each centrifuge, which will then discharge to either distribution conveyor that will, in turn, distribute the cake along each truck bed through three slide gates. The truck bay will be sized to allow for two trucks with 48-foot long end-dump beds. Each truck will have a dedicated distribution conveyor and each centrifuge will have a dedicated inclined conveyor. Both conveyors will operate in either direction and inclined conveyors will have an automatic flush water valve to flush out the conveyor when the centrifuge produces sloppy sludge at startup and shutdown.

Shaftless conveyors are recommended for this application due to their higher capacity and simpler maintenance when compared to shafted conveyors. Electrically actuated knife gates will isolate each of the discharges of the conveyors for both the incline conveyors and distribution conveyors. See the Table 7 below for cake conveyance design criteria.

Table 7 Cake Conveyance Design Criteria

Parameter	Current	Future
Conveyor Type	Shaftless	Shaftless
Cake Density (lb/cu ft)	50	50
Inclined Conveyors		
Quantity	2	3
Capacity (cfh)(1)	235	235
Diameter (inches)	12	12
Length (ft)	37	37
Incline (^{0})	<20	<20
Conveyor Motor Size (hp)	7.5	7.5
Speed (rpm)	16	16
Slide Gates Quantity	4 (2 per Conveyor)	6 (2 per Conveyor)
Slide Gate Actuation	Electric	Electric
Slide Gate Motor Size (hp)	2	2
Horizontal (Distribution) Conveyors		
Quantity	2	2
Capacity (cfh)(1)	470	705
Diameter (in)	14	14(2)
Length (ft)	59	59
Incline (^{0})	0	0
Motor Size per Conveyor (hp)	15	15
Speed (rpm)	19	19(2)
Slide Gates Quantity	6 (2 per Conveyor)	6 (2 per Conveyor)
Slide Gate Actuation	Electric	Electric
Slide Gate Motor Size (hp)	2	2

Notes:
(1) Capacity assumes worst case of 18 percent TS cake and 50 lbs/cf density for cake.
(2) At 14-inch diameter and 19 rpm, the fill rate moves from 35 percent (current operation) to 45 percent which is higher than the industry standard. If operating three centrifuges is the preferred methodology, a 16-inch diameter screw operating at 20 rpm is recommended.

1.7 Truck Scales

Axle truck scales will be provided for each truck bay to weigh the trucks to comply with all federal and state laws and regulations. According to Tennessee State Code Title 55, tandem axle trucks are limited to 34,000 pounds on interstate highways (80,000 pounds gross weight).

1.8 Centrate Pump Station

Centrate is the liquid output from the centrifuge after solids separation. Filtrate from the belt filter presses is currently conveyed to the Filtrate Pump Station right outside the Belt Filter Press Dewatering Building. From there, the filtrate is pumped by two submersible non-clog pumps, which each have a capacity of 400 gpm at 28 feet. This pump station will be used for centrate as well.

The pumps have the option to pump to the aerobic digesters or Oxidation Ditch 1. As part of this project, provisions will be added to send centrate to Oxidation Ditch 2. The oxidation ditches are preferred over the digesters as a discharge location because centrate from aerobic digesters tends to be higher in nutrients, though less so than anaerobic digestate, and the relative impact on hydraulic loading is less in the ditches than in the digester. The existing filtrate pumps will continue to be used for centrate pumping.

The pumps are constant speed pumps and turn on when the high level float switch is tripped and turn off when the low level float is tripped. The number of starts and stops of the pumps should be limited to 12 starts/stops per hour to prevent damage to the motor. The controls for the pumps will need to be adjusted as part of this project to allow for two pumps to operate in parallel in the case that the City elects to run two centrifuges at the same time.

Table 8 Centrate Pump Station Design Criteria

Parameter	Current		Future	
	Average Day	Max 2-Week	Average Day	Max 2-Week
No. of Centrate Pumps (duty + standby)	1+1	1+1	2+1	2+1
Centrate Flow (gpm)(1,2)	225	290	450	580
Centrate Pump Capacity (gpm)	400	400	600	600
Wet Well Volume (gallons)	2,900	2,900	2,900	2,900
Number of Starts per hour	<12	<12	<12	<12

Notes:
(1) Average condition is based on 175 gpm sludge feed and average polymer dosing solution flow of 50 gpm per operating centrifuge.
(2) Maximum condition assumes 210 gpm sludge feed and max polymer dosing solution flow of 80 gpm per operating centrifuge.

SECTION 2 CIVIL

2.1 Site Layout and Access

The proposed project is located in the north-central area of the City of Spring Hill's WWTP. The new dewatering building will be constructed west of the existing dewatering building. This location will allow the existing belt filter presses (BFPs) to remain operational during construction, which will ease the Maintenance of Plant Operations (MOPO) strategy, reduce operational risks, and minimize the need for temporary dewatering equipment rentals.

Figure 3, in Section 2.3.1 provides a site overview, including the location of the new building and site access routes.

2.1.1 Site Access

The WWTP is accessible from two primary entry points:

- Northeast Entrance via John Lunn Road.
- Southwest Entrance via Mahlon Moore Road.

Currently, solids haul-off trucks have been entering the site through the southwest entrance (Mahlon Moore Road). However, this route includes a bridge over a canal that is not rated for heavy truck traffic. After coordination with City staff, it was determined that this access route is not suitable for continued or expanded truck loading operations due to safety and load bearing concerns.

Therefore, the preferred truck access will be rerouted to the northeast entrance from John Lunn Road, where an existing gravel access road leads to the Public Works building. As part of this project, this gravel road will be paved and upgraded to accommodate the weight and frequency of haul trucks, ensuring safer and more efficient access for solids disposal operations.

2.1.2 Existing Site Features

The area of proposed site improvements includes several key WWTP facilities, all of which must remain operational or protected throughout the project duration. These include:

- Existing Dewatering Building (to remain operational during construction).
- Sludge Day Tank.
- Filtrate Pump Station.
- Firefighter Training Area (north of the existing gravel road and can be used for temporary staging or circulation).
- Vehicle Impound Lot.

The site layout will be carefully designed to ensure safe and efficient truck maneuvering and solids loadout, adequate separation of operational and construction activities, uninterrupted utility services to all existing facilities, integration of future expansion potential or equipment access needs.

The layout will also ensure compliance with applicable design codes and City of Spring Hill standards.

2.2 Permitting and Regulatory Standards

A preliminary permitting assessment has identified several key regulatory requirements that will guide site design and approvals. The following permits are anticipated:

- City of Spring Hill Site Development Permit.
- City of Spring Hill Utility Permit.
- Tennessee Department of Environment and Conservation (TDEC) Permits (as required).

Design and construction will conform to applicable local, state, and national standards, including but not limited to:

- TDEC – for environmental regulations.
- AASHTO Design Guidelines – for access road geometry and pavement design.

- MUTCD – for signage and traffic control.
- Applicable ASTM Standards for materials and testing.
- City of Spring Hill Water and Sewer Design Specifications.
- City of Spring Hill Unified Development Code (UDC) requirements.

The proposed civil site improvements will include:

- Grading and drainage improvements to accommodate the new building pad and ensure positive stormwater conveyance.
- Pavement upgrades along the truck access route, potentially converting portions of the gravel drive to asphalt or reinforced concrete.
- Coordination of utility connections (electrical, water, sewer) to support the centrifuge operations.
- Erosion and sedimentation control during construction in compliance with TDEC requirements.

2.3 Existing Conditions

2.3.1 Site Survey

Existing conditions presented in the design drawings are from the Topographic Survey of Springhill WWTP prepared by Southern Precision Land Surveying, Inc., dated May 6, 2025. The survey is based on the Tennessee State Plane Coordinate System NAD83 (Horizontal)-C.O.R.S., and NAVD88 (Vertical) as required. See Figure 3 below.

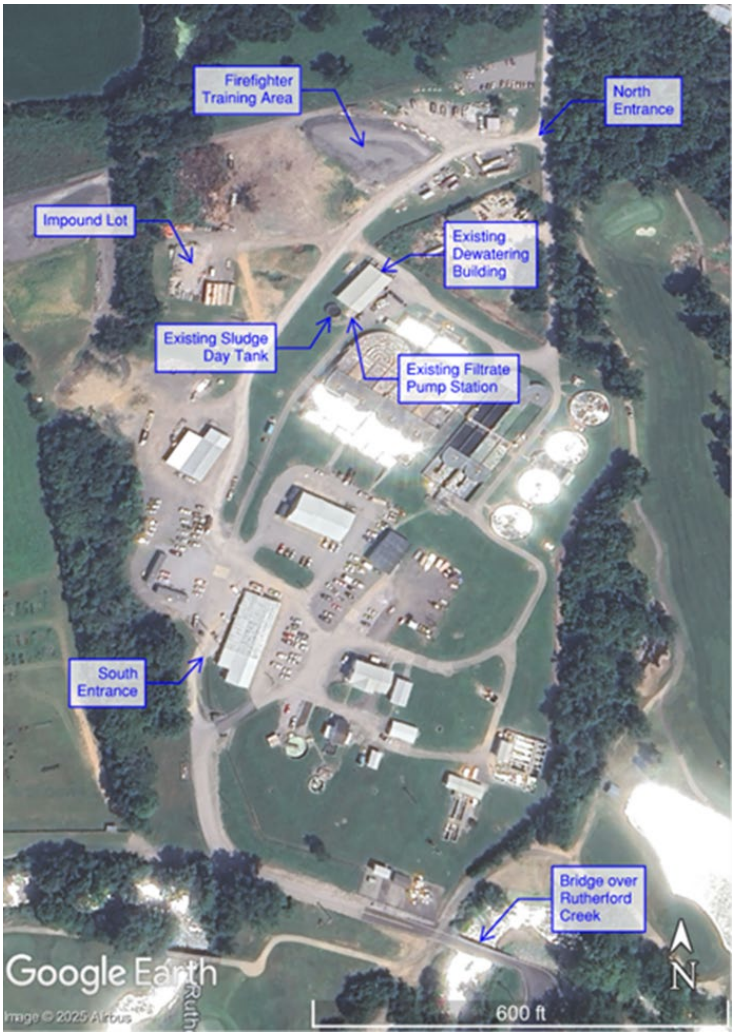


Figure 3 Site Overview

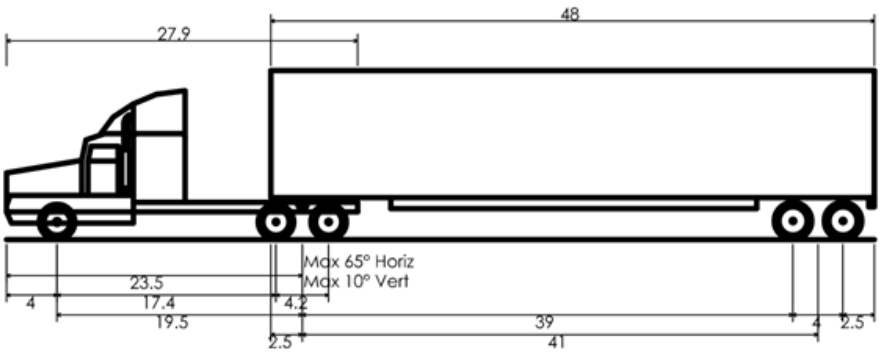
2.4 Yard Piping

The 2010 record drawings (City of Spring Hill, Tennessee, Wastewater Treatment Plant Expansion, prepared by CTI Engineers, Inc., dated October 2010) was used for existing utilities. According to these drawings, a 4-inch plant water line runs northeast, parallel to the road located northwest of the Oxidation Ditch and provides service to the existing Dewatering Building. A 2-inch plant water line with a yard hydrant branches off from this 4-inch line. In addition, a 2-inch potable water line serving the Dewatering Building tees off from the 6-inch water main located to the southeast.

SECTION 3 CIVIL IMPROVEMENTS

3.1 Site Layout and Access Roads

The new Dewatering Building is proposed to be located northwest of the existing Dewatering Building, on the opposite side of the access road. The proposed access road will be constructed to provide access to the proposed dewatering building. Construction will begin on John Lunn Road, located on the true North side of the site. The road will merge with an adjacent company's construction plans at approximately 1,200 feet. The expected trailer length to be used on site is 48 feet and an engine length of 27.9 feet. Adequate spacing will be provided and has been simulated by utilizing Vehicle Tracking as seen in Figure 5.



WB-62 - Interstate Semi-Trailer	
Overall Length	69.000ft
Overall Width	8.500ft
Overall Body Height	13.500ft
Min Body Ground Clearance	1.334ft
Max Track Width	8.500ft
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	44.800ft

Figure 4 WB-62 Interstate Semi-Trailer Apparatus and Turning Information

The proposed access road for this site will adhere to the City Apparatus Access Road requirements as outlined in the UDC 16.3.G. It is important to note that the minimum fire apparatus access road width is 25 feet, excluding shoulders, unless otherwise allowed by the City Engineer. If compliance with the 25-foot width requirement is not feasible, approval from the City Engineer will be necessary.

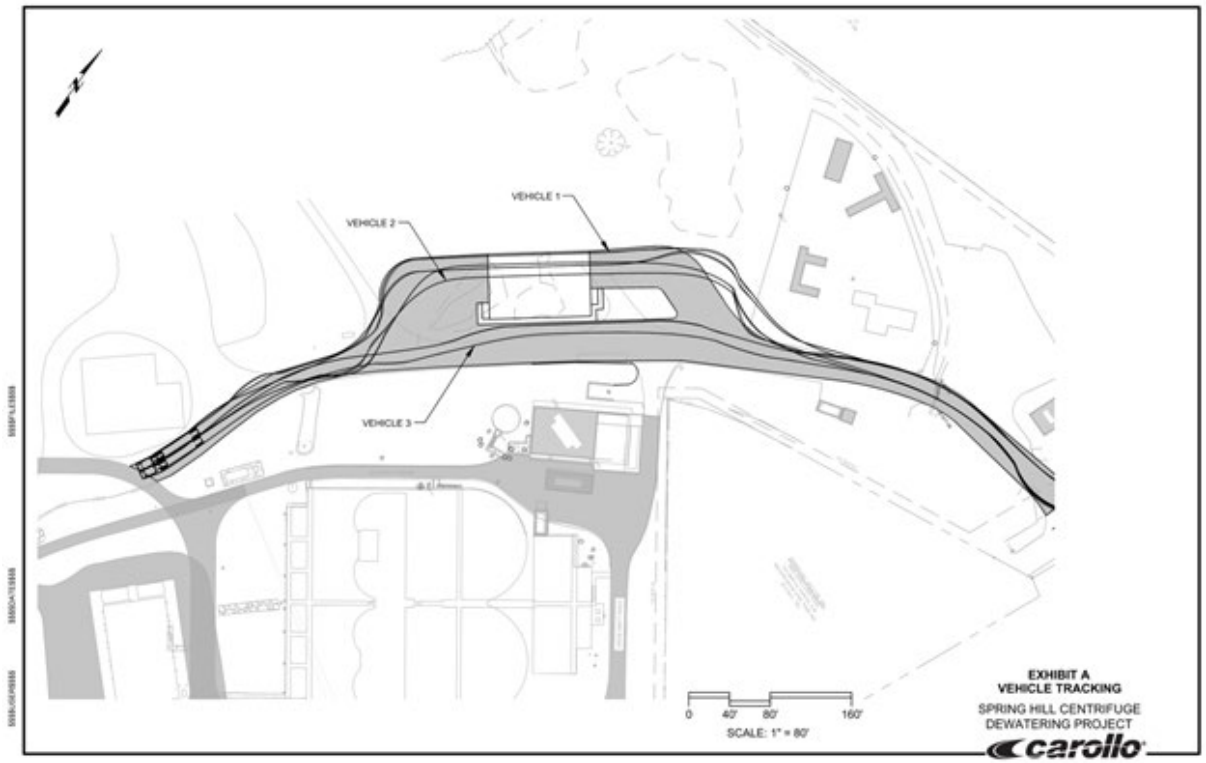
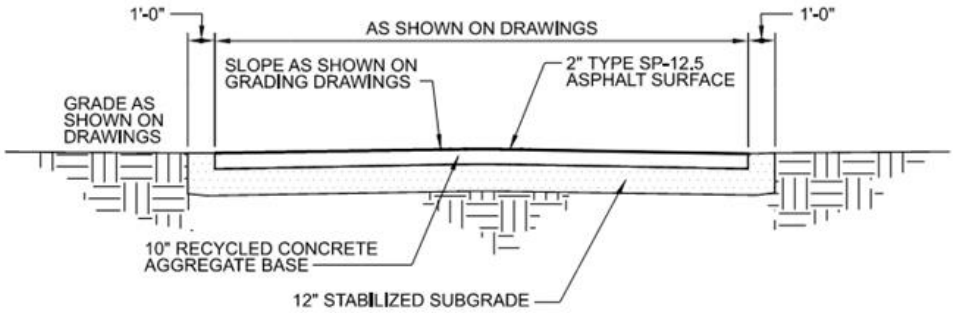


Figure 5 Exhibit A: Vehicle Tracking

3.1.1 Pavement Design

The asphalt pavement plan is currently in design. Carollo has prepared an initial pavement section based upon anticipated loading and assumed geotechnical information. The design will follow the recommendations of the geotechnical report provided by Geo/Structural Services Group, LLC upon receipt. Carollo will verify that the roadway design is capable of supporting HS-20 loading, in consideration of the anticipated semi-truck traffic associated with the dewatering facility operations. The preliminary pavement design is shown in Figure 6.



NOTES:

1. CONSTRUCT RECYCLED CONCRETE AGGREGATE BASE COURSE PER TDOT STANDARD SPECIFICATION SECTION.
2. OBTAIN A MINIMUM BASE COURSE MATERIAL DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY AS DETERMINED BY FM 1-T1810, METHOD D PER TDOT STANDARD SPECIFICATION SECTION.
3. CONSTRUCT STABILIZED SUBGRADE PER TDOT STANDARD SPECIFICATION SECTION.
4. OBTAIN A MINIMUM SUBGRADE DENSITY OF 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY AS DETERMINED BY FM 1-T180, METHOD D PER TDOT STANDARD SPECIFICATION SECTION.

Figure 6 Proposed Pavement Design

3.1.2 Yard Piping

The project requires the re-routing of various piping networks from the existing dewatering building to the proposed building. This encompasses potable water, plant water, and sewer lines. Below is a comprehensive list of the yard piping configurations that will be implemented:

- Proposed 4-inch plant water line that connects to the existing 4-inch plant water line bypassing the existing dewatering building to the new building.
- Proposed 2-inch potable water main connecting to the existing 6-inch potable water line.

- Proposed 6-inch gravity sewer line extension from the existing dewatering building to proposed dewatering building.
- Extension of 6-inch sludge feed.
- New 14-inch filtrate line from new dewatering building to existing filtrate pump station.

The yard piping networks will adhere to the City of Spring Hill Water Specifications dated August 2023 and the City of Spring Hill Sewer Specifications dated May 2024. Additionally, a fire hydrant will be provided for the new dewatering building in accordance with specifications provided in UDC section 15.10.

3.1.3 Pipe Color Coding

The uniform color code is used for marking excavation sites and underground facilities in conflict with an excavation. Underground facilities may be marked on the ground in either paint, stakes, or flags. Please refer to Tennessee 811's Uniform Color Code as seen in Figure 7.

Figure 7 Tennessee 811 Underground Utility Uniform Color Code

3.1.4 Pipe Installation and Separation

Piping will be separated in accordance with the City Water Specifications such that there is sufficient separation between underground water mains and the following piping:

In relation to Water Mains:

- **Horizontal Separation**: Whenever possible, sewers should be laid at least 10 feet horizontally from any existing or proposed water pipe. Should local conditions prevent a lateral separation of 10 feet to the water main if it is laid in a separate trench and if the elevation of the top of the sewer pipe is at least 18 inches below the bottom of the water pipe.

- **Vertical Separation**: Whenever a sewer must cross under a water main, the sewer shall be laid at such elevation that the top of the sewer is at least 18 inches below the bottom of the water main. When the elevation of the sewer cannot be varied to meet the above requirement, the water main shall be relocated to provide the separation or reconstructed with DIP for a minimum distance of 10 feet on each side of the sewer. At least one full length of water main should be centered over the sewer so that both joints shall be as far from the sewer as possible.

3.1.5 Drainage/Stormwater Management

Existing drainage and stormwater management on site relies upon sheet flow of water to the creek at the southwest corner of the plant. There is an existing culvert under the southern portion of the roadway what will not be impacted by this project's drainage. The existing drainage pattern is depicted in Figure 8.

3.1.6 Proposed Conditions Exhibit

The proposed drainage plan for the new dewatering building and associated pavement improvements will be designed with the intention of keeping the similar grade and flow lines throughout the site to maintain the existing runoff patterns. The proposed drainage pattern is depicted in Figure 9.

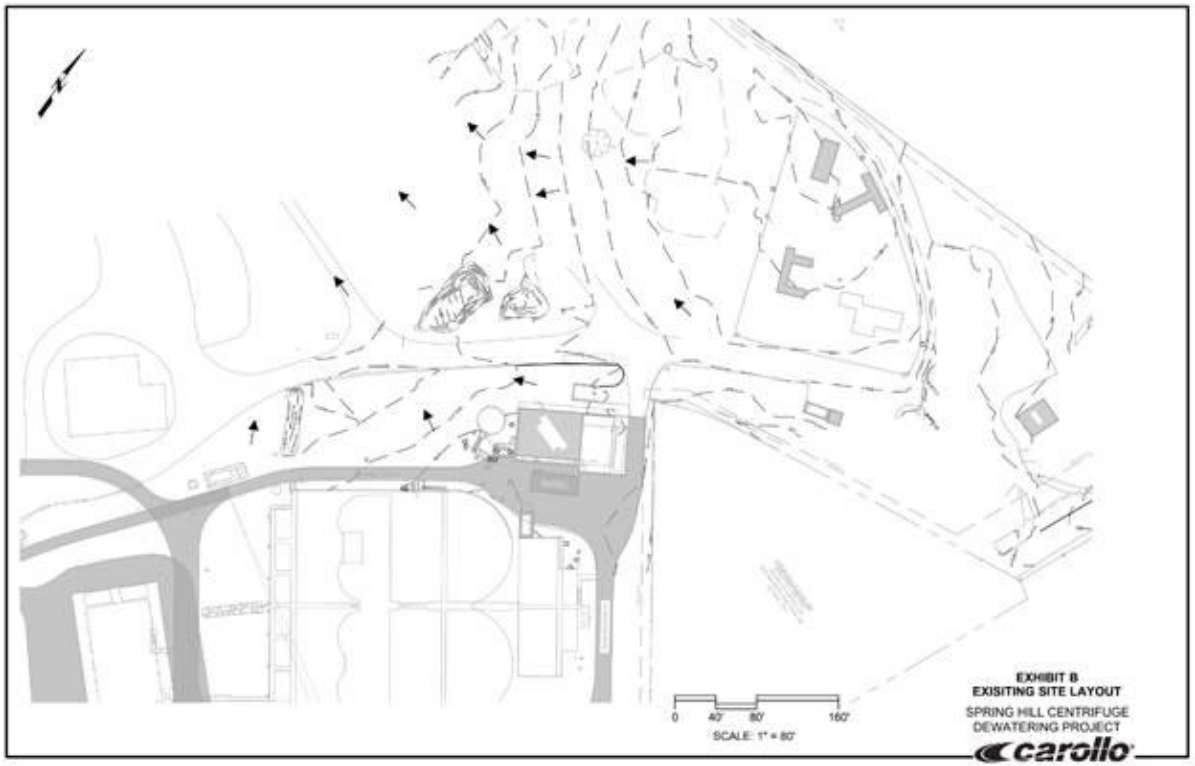


Figure 8 Exhibit B: Existing Site Layout/Existing Drainage Patterns

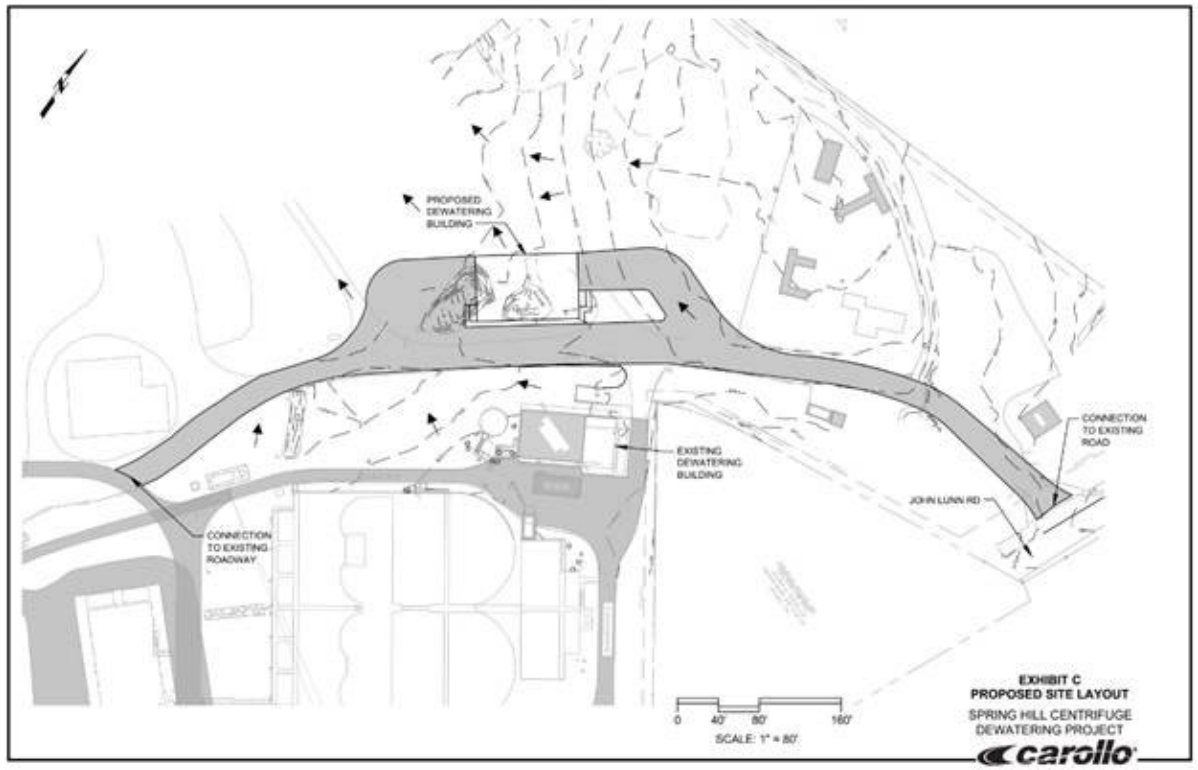


Figure 9 Exhibit C: Proposed Site Layout/Proposed Drainage Patterns

3.1.7 Stormwater Requirements

The storm water drainage system will be designed for 100-year and 25-year maximum discharge rates in accordance with Title 18 of the Spring Hill municipal code. All stormwater plans will meet regulations provided by the Tennessee Permanent Stormwater Management and Design Guidance Manual. The design will incorporate Post Construction/ Permanent Stormwater Control Measures (SCMs) to achieve an overall treatment efficiency of 80 percent TSS removal. The stormwater runoff plan will include runoff and routing methods, parameters, and calculations for all areas including flow arrows within each subbasin.

The drainage design will ensure that lots are configured for positive drainage away from buildings and that no cross-lot drainage is allowed. Any flood-prone area will be at least 2 feet above the regulatory flood protection elevation (100-year flood) for a distance extending at least 25 feet beyond the limits of intended structures.

The Erosion Control Plan will meet the City's and TDEC's requirements as listed below.

- Show and label the limits of clearing, grubbing, and all land-disturbing areas.
- Provide details of temporary erosion/sediment control devices and best management practices for all phases of the development.
- Provide a plan view to show and label all temporary erosion/sediment control devices.
- Show and label all natural drainage features for both existing and proposed conditions.
- Show and label construction entrances, stockpiles, and concrete washouts.
- Provide permanent stabilization details.
- Provide locations and details of all temporary sedimentation basins, including drainage calculations, dewatering times, basin dimensions, and outlet/dewatering structure designs.

SECTION 4 STRUCTURAL

4.1 General Description

The proposed two-story building seen in Figure 10 will contain dewatering centrifuge machinery used to separate solid and liquid waste in an effort to improve the processing, storage, transfer and disposal of wastewater sludge. An operation and control room and two centrifuge units will occupy the building's second level, with additional space for a third centrifuge to be installed in the future. The ground level of the building will consist of an open equipment area, electrical room and two adjacent truck loading bays for waste transport vehicles. Stairwells will be located at each end of the building for access to the second level.

Figure 10 Centrifuge Dewatering Building Rendering

4.1.1 Building Structure

The building structure (including ending stairwells) will be constructed of a concrete frame with concrete masonry block infill or cast-in-place walls with exterior split-face masonry block. The ground floor will be constructed as a traditionally reinforced concrete slab on grade. The area of the second story where centrifuge units are located will be constructed as an elevated reinforced concrete slab bearing on concrete shear walls below. The second story area above the truck loading bays will be constructed of composite metal deck with hot-rolled steel beams that span from the exterior to the interior concrete walls. A series of cast-in-place concrete columns with projecting corbels will extend from the foundation to the roof structure to support the crane rail beams over the centrifuges. The roof structure will be framed using pre-manufactured precast double tee panels spanning between exterior walls.

4.2 Codes, Standards, and References

4.2.1 Codes

- ACI 224.3R "Joints in Concrete Construction".
- ACI 318-19 "Building Code Requirements for Structural Concrete and Commentary".
- ACI 360R-10 "Guide to Design of Slabs-on-ground".
- AISC "Steel Construction Manual – 15th Edition".

- ANSI/AISC360-16 "Specification for Structural Steel Buildings".
- ASCE/SEI 7-16 "Minimum Design Loads and Associated Criteria for Buildings and Other Structures".
- IBC 2021 "International Building Code" (Including Referenced Standards Therein).
- MNL-120-17 "PCI Design Handbook, 8th Edition".
- SDI-C 2017 "Standard for Composite Steel Floor Deck-Slabs".
- SDI-NC 2017 "Standard for Non-composite Steel Floor Deck".
- TMS 402 2016 "Building Code Requirements for Masonry Structures".
- TMS 602 2016 "Specification for Masonry Structures"

4.2.2 Reports

Final Geotechnical Investigation Report to be submitted at later date.

4.3 Design Loads and Combinations

4.3.1 Design Loads

4.3.1.1 Dead Loads (D)

This includes self-weight of materials of construction. Dead load of material is calculated using following density of materials.

Cast-in-Place Concrete	150 lb/ft^3
Rolled Steel Shapes	490 lb/ft^3
Concrete Masonry Units	125 lb/ft^3

4.3.1.2 Superimposed Dead Load (SDL)

This includes self-weight of materials of permanent equipment materials and equipment

Roofing	20 lb/ft^3
Flooring & Insulation	
Mechanical and Electrical Loads	20 lb/ft^3 or 2,000 lb, which ever produce the greater load effect. Also, to be verified with MEP design.
Equipment Loads	As per mechanical and electrical equipment data sheets

4.3.1.3 Live Load (L)

This includes loads produced by the use and occupancy of the building

Ground Floor – Open Equipment Area	250 lb/ft^2
Second Floor (Centrifuge Floor)	250 lb/ft^2

4.3.1.4 Live Roof Loads (Lr)

Roof Live Load	20 lb/ft^2
Roof Mechanical Equipment	Pre mechanical equipment data sheet

4.3.1.5 Snow Load(s)

Site specific snow loads are determined per ASCE-7 as follows:

Where:

Ground snow load P_g = 10 psf

γ_{snow} = 0.13 * P_g + 14 <= 30 psf

γ_{snow} = 0.13 * 10 + 14 = 15.3 psf

h_{roof}: roof height from ground

h_g = p_g*γ_{snow} = 10/15.3 = 0.65 < h_{roof} = 49.5 ft

Ps = 0.7 C_e* C_t*I_s*P_g

Assume surface roughness is B and exposure type is full

C_e = 1.0

Assume C_t = 1

Assume risk category of the building is III.

I_s = 1.1

P_s = 0.7*0.9*1*1.1*10 = 7.7 psf

Where P_g is 20 psf or less, the minimum roof snow load shall be obtained using the following formula

P_m = P_g * I_s

P_m = 10 * 1.1 = 11 psf

4.3.1.6 Wind Load (WX, WY)

Wind load can be calculated based on ASCE 7-16.

Wind Load Parameters:

1. Design Wind Speed = 111 mph
2. Nominal Wind Speed = 86 mph

3. Risk Category = III
4. Wind Importance Factor, I = 1.00
5. Wind Exposure - C
6. Exposure coefficient for internal wind pressure for the superstructure =±0.18

4.3.1.7 Seismic Load (EX, EY)

Seismic loads for the structure are considered in the assigned area of the Centrifuge Dewatering Building Seismic Parameters:

- Spectral response coefficients S_{ds} & S_{d1} = 0.302 & 0.217 respectively.
- Risk Category is conservatively assumed to be III.
- Importance Factor = 1.25.
- Site Class: Conservatively assumed as Default (D).
- Seismic Design Category: D.

4.3.1.8 HARMONIC LOADING

Dynamic analysis required to account for loads imposed on the structure at the nominal operating speed of the centrifuge as well as at natural frequencies within the operating speed range. Mitigation of these forces through vibration isolators such as springs and dampers may be necessary. Accounting for these forces in the design is critical to the performance of the supporting structure

4.3.2 Load Combinations

Ultimate and service load combinations are developed according to design code requirements (ASCE 7) Ultimate load combinations are used to check different ultimate limit states. Service load combinations are used for serviceability limits checks.

4.3.2.1 Symbols and Notations

D	Dead Load + Superimposed Dead Load
L	Live Load
L_r	Roof Live Load
S	Snow Load
E_x	Earthquake Load in X-Direction
E_y	Earthquake Load in Y-Direction
W_x	Wind Load in X-Direction
W_y	Wind Load in Y-Direction

4.3.2.2 Ultimate Load Combinations

Generally, service load combinations are used to check strength limit states.

Ultimate Load Combinations

1.4 (D)
1.2 (D) + 1.6 (Lr or S) + 0.5 (Wx)
1.2 (D) + 1.6 (Lr or S) + 0.5 (Wy)
1.2 (D) + 0.5(Lr or S) + (Wx)
1.2 (D) + 0.5(Lr or S) + (Wy)
0.9 (D) + (Wx)
0.9 (D) + (Wy)
1.2 (D) + 1.0 (Ex) + 0.2S
1.2 (D) + 1.0 (Ey) + 0.2S
0.9 (D) + 1.0 (Ex)
0.9 (D) + 1.0 (Ey)

4.3.2.3 Service Load Combinations

Generally, service load combinations are used to check serviceability limit states.

Load Combinations

D

D + (Lr or S)

D + 0.75 Lr

D + 0.6 Wx

D + 0.6 Wy

D + 0.75 (Lr or S) + 0.45 Wx

D + 0.75 (Lr or S) + 0.45 Wy

0.6 D + 0.6 Wx

0.6 D + 0.6 Wy

D + 0.7 Ex

D + 0.7 Ey

D + 0.75 S + 0.525 Ex

D + 0.75 S + 0.525 Ey

0.6 D + 0.7 Ex

0.6 D + 0.7 Ey

4.3.3 Design

Including harmonic load impacts imposed on the structure by the centrifuge units:

1. All ultimate limit states are satisfactory.
    a. Including harmonic load impacts imposed on the structure by the centrifuge units.

2. All serviceability limit states are satisfactory.
3. Stability, all factors of safety are satisfactory.

SECTION 5 ARCHITECTURAL

5.1 Governing Codes and Standards

As construction is anticipated to begin in 2026-2027, the following codes and standards shall establish minimum requirements to protect public health, safety, and welfare for the City facility.

5.1.1 Building Codes

- 2021 International Building Code (IBC) as adopted by Tennessee.
- 2021 International Existing Building Code (IEBC) as adopted by Tennessee.
- 2021 International Energy Conservation Code (IECC) as adopted by Tennessee.
- 2021 International Fire Code (IFC) as adopted by Tennessee.
- 2021 International Mechanical Code (IMC) as adopted by Tennessee.
- 2023 National Electrical Code (NEC).
- National Fire Protection Association (NFPA) 820 - Standard for Fire Protection in Wastewater Treatment and Collection Facilities.
- NFPA 13 - Standard for the Installation of Sprinkler Systems (for reference only - building not sprinklered).
- NFPA 72 - National Fire Alarm and Signaling Code.
- 2010 Americans with Disabilities Act (ADA) Standards for Accessible Design.
- American National Standards Institute (ANSI) A117.1 – Accessible and Usable Buildings and Facilities.
- Recommended Standards for Wastewater Facilities.

5.2 Code Compliance Summary

This section provides the basic code requirements based on the applicable Tennessee-adopted codes. It is the responsibility of the Design-Build Contractor to ensure that the project complies with all applicable codes and industry standards.

5.2.1 Building Summary – Treatment Facility

- **Occupancy**: U (Utility and Miscellaneous).
- **Construction Type**: Type II-B.
- **Number of Stories**: 2 stories above grade.
- **Allowable Building Area**: Per IBC Table 506.2 for Type II-B, U occupancy.

- **Allowable Height:** 55 feet maximum; proposed facility height to be confirmed during design development.
- **Sprinkler System**: Not required based on building area, construction type, and U occupancy classification per IBC.

Fire separation requirements between building components and equipment areas will be determined based on code requirements and operational safety considerations during final design by the Design-Build Contractor.

5.3 Design Criteria – Prescriptive vs Performance

The architectural approach for the City's wastewater treatment facility (WWTF) shall integrate functional efficiency with aesthetic considerations appropriate for its community setting. The design should create a facility that serves its operational purpose while maintaining visual compatibility with the surrounding area and providing a safe, efficient work environment for operations staff.

5.4 Building Exterior

5.4.1 Exterior Wall Systems

The building exterior shall incorporate durable, low-maintenance materials suitable for the operational environment and Tennessee climate conditions. As the design progresses, other materials and exterior aesthetics should be explored with consideration for envelope materials consisting of durable and corrosion-resistant materials. The building should provide uniformity between adjacent buildings within the facility. A combination of aesthetic and traditional materials are provided for a functional, long-lasting design.

5.4.1.1 Primary Wall Assembly

- **Exterior Finish**: 3 and 5/8-inch split face concrete masonry unit (CMU) block providing durability and low maintenance.
- **Secondary Exterior Finish**: Metal panel system siding in designated areas for visual interest and weather resistance.
- **Structural Walls**: 12-inch cast-in-place concrete walls in process areas requiring structural integrity and corrosion resistance.
- **Insulation**: 2-inch rigid insulation (polyisocyanurate or equivalent) to meet Tennessee Energy Code requirements.
- **Vapor Barrier**: Continuous air and vapor barrier system as required by energy code.

5.4.1.2 Foundation and Floor Systems

- **Slab on Grade**: 8-inch reinforced concrete slab on grade with vapor barrier and appropriate sub-base preparation.
- **Level 2 Floor**: Truck Bay Area: 8-inch hollow core precast concrete planks providing structural floor system over truck bay while maintaining access below.

- **Level 2 Floor**: Centrifuge Area: 24-inch thick reinforced concrete slab to accommodate centrifuge equipment loads and provide vibration isolation.
- **Roof/Ceiling System**: 30-inch precast concrete double-T members providing long spans and structural capacity.

5.4.2 Roofing Systems

5.4.2.1 Main Roof System

- **Roof Type**: Metal gable roof framed with cold-formed steel trusses at 3:12 slope over concrete double-T structure.
- **Roofing Material**: Standing seam metal roofing system with appropriate underlayment and insulation to meet energy code requirements.
- **Structural System**: Cold-formed steel trusses bearing on concrete double-T members.

5.4.3 Fenestration

5.4.3.1 Window Systems

- **Centrifuge Room**: Continuous ribbon windows at double-T height to provide maximum natural light and exterior views for operations staff.
- **Process Areas**: Limited glazing as required for natural light and observation, with consideration for security and operational requirements.

5.4.3.2 Performance Requirements

- Thermal performance to meet Tennessee Energy Code.
- Impact resistance appropriate for facility type.
- Low-maintenance frame materials (aluminum or vinyl).
- Clear glazing to maximize light transmission (tinted glazing not recommended).

5.4.4 Additional Exterior Considerations

- **Color and Material Coordination**: Exterior materials and colors shall be coordinated to present a unified facility appearance.
- **Equipment Screening**: Rooftop and exterior equipment shall be screened from public view where practical.
- **Site Lighting**: Exterior lighting shall provide adequate security and safety illumination while minimizing light pollution.
- **Entrance Design**: Primary entrances shall include weather protection (canopies or recessed entries).
- **Maintenance Access**: Permanent access (ladders, walkways) shall be provided to rooftop equipment and building maintenance areas.
- **Entrance Canopy**: An entrance canopy or recessed entries should be considered to prevent snow build-up that can block exit doors and extend the life of the door system.

- **Building Lighting**: Due to possible limited wall area in process areas, skylights can be considered to provide natural light to enhance the workspace and reduce the need for artificial lighting.

5.5 Building Interior

The selection of interior finishes, window locations for natural light, and amenities are based on the functionality of each space with the desired aesthetics.

5.5.1 Interior Partitions

- **Primary Partitions**: 8-inch CMU walls providing durability, sound control, and fire resistance.
- **Finish**: CMU walls in process areas to receive protective coatings; office and control areas to receive appropriate finishes per space function.

5.5.2 Interior Finishes

5.5.2.1 Process Area

- **Floor Finishes**: Concrete sealer/hardener for general areas and wet areas.
- **Wall Finishes**: Protective coatings on CMU and concrete surfaces to resist corrosion; sound absorption panels in appropriate locations to reduce noise levels.
- **Ceiling Finishes**: Sealed concrete surfaces or protective coatings as appropriate; sound absorption panels where operationally feasible.

5.5.2.2 Control Room

- **Floor Finishes**: Commercial-grade flooring appropriate to function (carpet tile, VCT, or polished concrete).
- **Wall Finishes**: Paint on CMU or drywall partitions as appropriate; sound absorption panels where beneficial for noise control.
- **Ceiling Finishes**: Suspended acoustical ceiling tile, sound absorption panels, or exposed structure with appropriate acoustic treatment.

5.5.3 Doors and Hardware

- **Exterior Doors**: Insulated steel doors with thermal breaks and weather sealing.
- **Process Area Doors**: Fiberglass reinforced plastic (FRP) or stainless steel doors in areas with moisture exposure.
- **Interior Doors**: Hollow metal doors in general areas; wood doors in office areas as appropriate.
- **Hardware**: Stainless steel or other corrosion-resistant hardware in process areas.

5.5.4 Accessibility and Safety

- **ADA Compliance**: All public and employee work areas shall comply with ADA requirements to the maximum extent practicable given operational constraints.
- **Slip Resistance**: All floor surfaces shall meet IBC and ADA slip-resistance requirements.

- **Emergency Egress**: All areas shall provide compliant emergency egress per IBC requirements.

5.6 Performance Requirements

All materials and systems shall be selected and designed to provide:

- **Low Maintenance**: Materials and systems requiring minimal ongoing maintenance.
- **Energy Efficiency**: Compliance with Tennessee Energy Code requirements.
- **Operational Efficiency**: Support for safe and efficient facility operations.
- **Environmental Appropriateness**: Suitable for Tennessee climate conditions and WWTF environment.
- **Acoustic Control**: Sound absorption panels incorporated where feasible to reduce noise levels and improve working conditions.

SECTION 6 BUILDING MECHANICAL

6.1 HVAC

New heating, ventilation, and air-conditioning (HVAC) systems will be provided for the new Dewatering Building. The HVAC systems will provide the required ventilation and thermal environmental conditions within the spaces for occupant safety and protecting the equipment/services from freezing or overheating. Exterior elements will be coated to protect against corrosion and excess wear-and-tear from conditions at WWTPs. All HVAC equipment used for new facilities will be new equipment of current industrial standards and quality. Specific equipment selection will be developed in subsequent design submittals.

6.1.1 Reference Codes and Standards

- 2024 NFPA 820 – Fire Protection, Sewage Treatment Plants.
- NFPA 90A – Air Conditioning and Ventilation Systems.
- American Society of Heating, Refrigeration and Air conditioning Engineering Standards (ASHRAE).
- American Gas Association Standards (AGA).
- 2017 ASHRAE Handbook – Fundamentals.
- 2021 International Building Code (IBC).
- 2021 International Energy Conservation Code (IECC).
- 2021 International Fire Code (IFC).
- 2021 International Mechanical Code (IMC).

6.1.2 Ventilation Systems – Process Areas

- Makeup air units will provide 100 percent outside air (O/A) to process spaces, coupled with exhaust fans and ducting. This equipment will run continuously to provide a minimum of six air changes per hour to the centrifuge, open equipment, and truck bay rooms. Per NFPA 820, this ventilation will declassify these spaces from Class I Division 2 to Unclassified. This is outlined in Table 10.
- The exhaust fans ducting will be located to provide to maximize air turnover within the space.
- All ventilation equipment responsible for maintaining a minimum of six air changes will be continuously monitored. Any decrease in ventilation or failure of these systems will trigger the respective go/no-go system to alarm.

Table 9 NFPA 820 Design Criteria

Facility (NFPA 820 Reference)	Initial Classification	Air Changes/Hour (ACH)
Dewatering Room/Truck Bay (6.2.2(a), Row 12a)	Class I, Division 1	6 ACH
Open Equipment Room (6.2.2(a), Row 12a)	Class I, Division 1	6 ACH

6.1.3 Ventilation Systems – Electrical and Control Rooms

- The electrical and control rooms will each be provided with controlled pressurization. The positive pressurization unit (PPU) will be located inside each respective room.
- O/A, sufficient to provide positive pressurization within the electrical or control room will be drawn through a sidewall louver and into the suction-side of the PPU. This unit will contain special, chemically treated media within a multi-stage filter bank. This type of filtration will remove air contaminants such as hydrogen sulfide to help prolong the life of sensitive electrical components.
- These units will not contain a heating coil or furnace.

6.1.4 Heating Systems

- Heat pumps will provide mechanical heating to the electrical and control rooms. Backup gas or electric unit heaters will be provided as necessary.
- For process areas that are continuously ventilated, the makeup air unit will be provided with an indirect-fired natural gas furnace. Heating will be provided for these spaces to prevent freezing only.

6.1.5 Cooling Systems

- Mechanical cooling will be provided only for the electrical and control rooms which contain equipment that must operate within a specific temperature range.
- Each room will be provided with mini-split heat pumps to provide direct expansion (DX) cooling to the space. These systems each contain an outdoor heat pump and an indoor air handler. Larger residential-type split systems will be considered for the electrical room if a larger cooling capacity is required.

Table 10 Temperature Design Criteria

Facility	Temperature (deg F)		Relative Pressure
	Heat	Cool	
Dewatering Room/Truck Bay	55	NR	Neg.
Open Equipment Room	55	NR	Neg.
Electrical Room	55	85	Pos.
Control Room	65	75	Pos.
Restroom	65	NR	Neg.

6.1.6 Outside Temperature Design Criteria

For the purposes of the HVAC design, the anticipated range of outdoor design conditions used will be as listed in Table 12.

Table 11 Outdoor Temperature Criteria (per ASHRAE 2021 WMP: 723270, Nashville INTL, TN)

Design Parameter	Degrees Fahrenheit
Winter Design: DB/WB (Extreme, n=20 years)	-1.0 F / -1.9 F
Summer Design: DB (Extreme, n=20 years)	104.2 F
Summer Design: WB (Extreme, n=20 years)	82.9 F

6.1.7 Fans and Air Handling Units

This section covers all fans, air handling units, and associated ductwork and accessories.

6.1.7.1 Propeller Wall Fans (Stairwells)

- Propeller wall fans will be V-belt driven when possible.
- Propeller wall fans smaller than 18 to 24 inches are only available in a direct drive configuration.
- Propeller fans will be provided with drive-side guards and wall-mounting sleeves.

6.1.7.2 In-Line Centrifugal Exhaust Fans (Process Areas)

- In-line centrifugal fans will be used where limited space is available for installation.
- In-line fans will be provided with vibration isolators, and flexible-duct connections at each end.
- Where required, an opposed blade volume damper will be installed at the inlet end.

6.1.7.3 Cabinet Fans and Ceiling Fans (Restroom)

- Small cabinet fans and ceiling fans provided with ducting through the wall will be used for very small air flows.

6.1.7.4 Mini-Split Heat Pumps (Electrical/Control Rooms)

- Ductless mini-split heat pumps will provide both heating and cooling to their respective areas.
- Ceiling-suspended air handlers will be provided to ensure minimal conflict with equipment in the room.

- Outdoor units will be provided with corrosion-resistant coating.
- Condensate from air handlers will be routed to a drywell outside of the building.

6.1.7.5 Dry Cartridge Filters (Makeup Air Unit)

- These filters will be used with a face velocity below 500 feet per minute (fpm).
- Clean pressure drop will be about 0.2 inches with a dirty pressure drop of about 0.5 inches.
- Pressure gauges will be provided to indicate pressure drop.
- Filters will be MERV 13.

6.1.7.6 Chemical Media Filters (PPUs)

- Chemical media filters will be used for electrical or control room ventilation systems.
- The filter system includes a prefilter and dry-type chemical media filter. These filters will be provided with differential pressure gauges.

6.1.7.7 Ductwork

- Ductwork layout including supply and return registers will be carefully designed to provide adequate air distribution and purging, and to avoid dead spots.
- Exhaust points shall be located as closely as possible to sources of potential air pollution such as centrifuges, truck bays, and other process-handling equipment.
- Attention will be paid to density of likely pollutants, and exhaust points will be located high or low accordingly.
- Aluminum ductwork will be used for all applications except as stated below. Fasteners for aluminum ductwork will be aluminum or stainless steel. Aluminum ductwork will be fabricated according to Sheet Metal and Air Conditioning Contractors' National Association (SMACNA) standards for low- or medium-pressure applications.
- FRP, polyvinyl chloride (PVC), or PVC-coated ducting will be used in applications requiring a high degree of corrosion resistance such as foul air ducting.
- FRP ducting, where used, will be treated to be fire resistant and of low flame spread rating.

6.1.7.8 Duct Sizing

- The computation of total system pressure (static pressure plus velocity pressure) will be based on the equal friction method as defined in SMACNA.
- Pressure losses will be approximately 0.07 to 0.12-inches per 100 feet.
- Higher pressure loss will be considered in areas where space constraints require smaller ducts.

6.1.7.9 Duct Insulation

- Thermal insulation will be provided on all supply, transfer, or return ducting that carries heated or cooled air and is located outside of the conditioned space.
- Thermal insulation will also be provided where required to prevent condensation. This insulation will be internal insulation or external, covered insulation.

- Thermal and acoustical duct insulation will generally be fiberglass.

6.1.7.10 Duct Dimensions and Design

- Rectangular and round metal ductwork will have whole number dimensions expressed in inches.
- Manufacturers' standard duct sizes and fittings will be used whenever possible with round FRP ducting.
- Rectangular ducts will be designed with small aspect ratios; aspect ratios of greater than 4:1 will be avoided.
- ASHRAE and SMACNA standards and recommendations will be used for all duct designs.

6.1.7.11 Duct Accessories

- Access doors will be provided adjacent to all pieces of duct-mounted equipment or instrumentation.
- Flexible duct connectors will be used for vibration isolation of moving equipment. Flexible duct connectors will be prefabricated metal-edged fabrics with canvas, neoprene-coated glass fabric, or other materials, which are rolled into the metal.

6.1.7.12 Grilles, Registers, and Diffusers

- Grilles, registers, and diffusers will be sized in accordance with the manufacturer's recommendations for noise level, air velocity, and throw.
- Grilles, registers, and diffusers will be of the same material as the duct and shall be selected from manufacturers' "industrial" product lines.

6.1.7.13 Louvers

- Louvers will be rated for appropriate wind loads and applicable certifications.
- Intake and exhaust louvers will be provided with insect and bird screens, respectively.
- Together with the louver blades, these screens produce a 0.05- to 0.10-inch pressure drop when clean.
- Louvers will be sized for a free area face velocity of about 650 fpm.
- Location and finish of louvers will be coordinated with the project architect.

6.1.7.14 Dampers

- Mixing dampers will be the opposed-blade, right-angle type. Backdraft dampers will be the parallel-blade type.
- Dampers for open-close service will be parallel-blade type.
- Balancing dampers will be butterfly type in ducts 12 inches and smaller and opposed-blade type in ducts larger than 12 inches. Balancing dampers will be provided at all supply and return duct branch takeoffs.

6.1.7.15 Piping

- The majority of the piping materials and fittings for HVAC equipment are covered in the mechanical/process design. Refrigerant piping will be determined by manufacturer's standards.

6.1.7.16 Controls

- Generally, controls for large HVAC systems will be electric. For a typical large building system, the following controls will be provided:
  - Differential pressure sensors or air flow switches across major or critical fans to indicate fan failure. The differential devices cannot be used with pressure differentials of less than one-half inch.
  - Smoke detector with alarm.
  - Freezestat with alarm at downstream face of heating coils, and in water circuits.
  - Differential pressure gauge and/or switch with alarm across air filters.
  - Thermostats and controllers to operate heating and cooling devices.
- Temperature monitors for large or critical spaces will be provided and rated appropriately.
- Alarms may be local and/or remote, audible and/or visual, and can start or stop equipment depending upon the particular application.

6.2 Plumbing

Plumbing design criteria for the new Dewatering Facility will be in accordance with the criteria listed below. The intent of these criteria is to provide general guidelines for the design of these facilities.

6.2.1 Reference Codes, Standards, and Documents

The following codes and standards shall be followed in the design of the systems involved with this project.

- NFPA 54 – National Fuel Gas Code.
- ANSI Z358.1 – American National Standard for Emergency Eyewash and Shower Equipment.
- 2021 International Plumbing Code (IPC).
- 2021 International Fuel Gas Code (IFGC).

6.2.2 Water Systems

Plumbing water supplies will be as follows:

- Water supply for sinks, faucets, and other fixtures will be protected potable water.
- Water supply for yard hydrants and hose bibs will be non-potable, plant water.
- Water supply for water softeners, odor control, and chemical makeup will be unprotected, potable water with dedicated double check valve-type backflow preventers upstream of connection.
- Hot water supply will be provided with under-sink electric tankless water heaters to provide service to lavatories.

6.2.3 Drainage Systems

Plumbing drainage systems will be as follows:

- Sanitary drainage from plumbing fixtures will be gravity piped to sanitary system.
- Floor drains with trap primers will be provided for all wash down areas and restrooms.
- Equipment drains with trap primers will be provided for indirect drainage systems.

SECTION 7 ELECTRICAL AND I&C

7.1 Governing Codes and Standards

- NFPA 70 – National Electric Code – 2023.
  - By predicted date for permit submission it is anticipated 2023 will be adopted.
- NFPA 820 – Fire Protection in Wastewater Treatment Facilities – Latest Edition.
- NFPA 72 – National Fire Alarm Code – Latest Edition.
- NFPA 70E – National Electrical Safety Code – Latest Edition.
- NFPA 101 – National Life Safety Code – Latest Edition.
- NFPA 110 – Power Systems, Emergency and Standby – Latest Edition.
- IEEE 1584 – Guide for Performing Arc Flash Hazard Analysis.
- IEEE 519 – Controlling Harmonics in Electrical Power Systems – Latest Edition.

7.2 Design Criteria

7.2.1 Electrical System Description

The new Dewatering facility will not have power serviced from any existing low voltage facilities currently on site. A new service drop at 15 kilovolt (kV) is to be provided by Duck River (DREMC) with new poles provided by the Utility to within 50 feet of the new building and service entrance location. The existing overhead distribution system, which is Utility-owned and routed through the existing facility is in the process of being upgraded and will be extended to this new location as a part of that effort. New fused cutouts will be provided on the Utility pole.

A new outdoor pad mount service transformer at 480 volts (V) will be provided and sized by the Utility for the new building and will feed to an outdoor service entrance rated 1,600A ATS. The ATS will also be fed from a new packaged outdoor diesel generator sized for the full capacity of the new facility at 1 MVA. The load of the ATS will feed a new 1,600A main switchboard (MSB) which will supply power to the loads within the building. All major process loads will be fed from downstream 1,200A “MCC 1”.

7.2.2 Underground Electrical Ducts

Both medium voltage and low voltage duct banks will be installed by Contractor, including medium voltage riser at the Utility pole. These ducts shall be concrete encased except as where dictated by the Utility to maintain access to the buried ducts. All transformer pads and installation details associated with new service will comply with the Utility requirements.

7.2.3 System Grounding

The facility will have a counterpose for the process building and exterior equipment. Structural steel within the building will be connected to the ground grid in multiple locations. The ground grid will have copper conductors exothermically welded together and connected to the building grounding or to the frame of large process equipment in multiple locations.

All grounding ring systems shall be interconnected together through underground conductors. Grounding system shall extend to any fencing and include grounding conductors and clamps on all fencing within the grounding area, if fencing is provided.

7.2.4 Emergency and UPS Power Systems

Diesel generator external to building will be designed to start within 10 seconds and maintain power to the new building through a full utility outage to allow dewatering to continue in alignment with other on-site facilities which remain operational during outage. This generator will start automatically based on voltage sensing provided at the ATS and will have a base tank sized to meet the Client runtime durations which are to be determined. Control components will be powered by a 208/120V 15kVA uninterruptable power supply (UPS) which will feed a dedicated UPS panel.

7.2.5 Dewatering Centrifuges

The centrifuge assembly includes both a 150 hp main drive and a 40 hp back drive. These motors are integral within the centrifuge and will be powered out of the motor control center (MCC) via vendor provided VFD control panels. The larger VFD units will be specified to comply with IEEE 519 to limit harmonic distortion at the building level.

7.2.6 Conductor Pathways and Enclosures – Interior

All conduits within the electrical and control room shall be rigid galvanized steel (RGS) and all enclosures within these spaces shall be NEMA 12 or NEMA 1. All penetrations from the electrical room shall be sealed off to prevent gas intrusion within the electrical room and to isolate those systems from the process area. Conduits within the process space shall be provided as PVC coated RGS or fiberglass where not exposed to physical damage to limit corrosion of conduits and couplings. Conduit supports and other hangers required to be metallic shall be provided as SS316 and all electrical and control enclosures within the process space shall be NEMA 4X. No explosion proof or Class 1 Div 1/2 equipment will be provided as interior space of process area is non-classified.

7.2.7 Lighting

Lighting throughout the buildings will be industrial LED type fixtures with lenses. Vapor tight gasketed fixtures shall be specified to provide a long lasting, robust light fixture that can easily be cleaned and hosed off. No explosion proof fixtures are anticipated for the building. Site lighting design shall take into account minimizing light pollution; however, the only exterior lighting expected for this building is access area downlighting.

7.2.8 Fire Alarm Systems

A new local Fire Alarm control panel will be provided for the building which will interconnect to smoke detection devices installed in the electrical spaces/control room and within mechanical ducts as required by code. Additionally, manual pull stations will be provided at egress points within the building along with strobes and horns distributed throughout the building. It is assumed this fire alarm control panel (FACP) will annunciate over fiber back to the control room to the master FACP. No combustible gas detection is expected to be required as the space is considered unclassified due to ventilation. Portable hand extinguishers will be located within the electrical room and control room.

7.2.9 Existing Reuse Facilities – Centrifuge Feed Pumps

The existing dewatering building will house new feed pumps which will supply the new dewatering building. These feed pumps will be located within that building and powered by the existing 480V distribution system within the building. New wall-mount VFDs will be provided for each pump with backup power for the building provided by an existing low voltage connected diesel generator.

7.2.10 Control Systems Description

A new balance of plant (BOP) programmable logic controller (PLC) control system will be installed to automate and monitor equipment that is currently operated manually. The new BOP PLC panel will be located in the Dewatering Building and will interface with existing PLC panels, allowing for central monitoring and control. Signals from pumps and instruments currently wired to the existing system will be rerouted or networked to the new panel.

The control platform will be based on an Allen-Bradley CompactLogix 5380 PLC with 5069-series Compact 5000 I/O modules. The system will support local operator interface through a PanelView Plus 7 Performance HMI and a local workstation running FactoryTalk View SE or Ignition (depending on Owner preference). Remote access and supervisory control and data acquisition (SCADA) connectivity (OPC-UA), if required.

The PLC control panel will be housed in a NEMA 4X stainless enclosure with 24 VDC power and internal UPS. The system will communicate over an Ethernet/IP ring topology with provisions for future network expansion and security isolation.

Instruments will be specified to match existing plant standards (e.g., Endress+Hauser, Siemens, Toshiba, etc), using 4–20 mA or HART protocols for consistency and ease of maintenance. Detailed control sequences will be provided separately in the Control Narrative.

CITY OF SPRING HILL, TN

SPRING HILL CENTRIFUGE DEWATERING PROJECT

30% DESIGN SUBMITTAL

JUNE 2025

VOLUME # OF #

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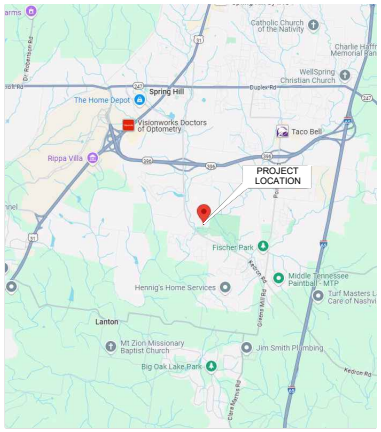
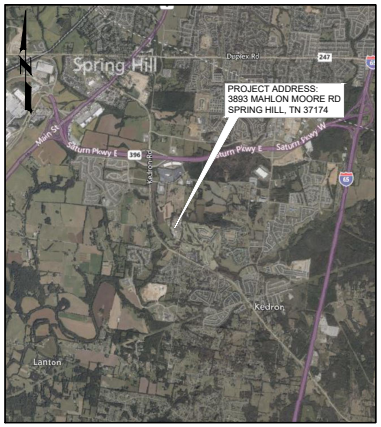


VICINITY MAP



LOCATION MAP

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JOB NO.	203747
DRAWING NO.	00G01
SHEET NO.	1 OF XX

SHEET NO.	DRAWING NO.	DESCRIPTION
		GENERAL
01	00G01	COVER SHEET
02	00G02	DRAWING INDEX
03	00G03	ABBREVIATIONS
04	00G04	NOTES, LEGEND, AND SYMBOLS
05	00G05	DESIGN CRITERIA
06	00G06	OVERALL SITE PLAN
		DEMOLITION
07	01D01	DEMOLITION AND EROSION CONTROL PLAN
X 08	12D01	SOLIDS STORAGE TANK - PLAN AND SECTION
X 09	54D01	BELT FILTER PRESS BUILDING - PLAN
x 10	54D02	BELT PRESS BUILDING PHOTOGRAPHS
		CIVIL/ YARD
11	00GC01	NOTES, LEGEND, AND SYMBOLS
12	00GC02	EXISTING SITE CONDITIONS PLAN
13	00GC03	PROPOSED SITE CONDITIONS PLAN
14	00C01	SITE PLAN
15	00C02	PAVING, GRADING, AND STORMWATER MANAGEMENT PLAN
16	00C03	PROPOSED YARD PIPING
17	00C04	VEHICLE TRACKING PLAN
		ARCHITECTURAL
18	A010	LIFE SAFETY PLAN - LEVEL 1
19	A011	LIFE SAFETY PLAN - LEVEL 2
20	A101	LEVEL 1 FLOOR PLAN
21	A102	LEVEL 2 FLOOR PLAN
22	A103	ATTIC PLAN
23	A104	ENLARGED PLANS
24	A111	LEVEL 1 RCP
25	A112	LEVEL 2 RCP
26	A113	ATTIC RCP
27	A121	ROOF PLAN
28	A201	EXTERIOR ELEVATIONS
29	A301	OPENING SCHEDULES
30	A401	BUILDING SECTIONS
31	A402	WALL SECTION & DETAILS
		STRUCTURAL
X 32	00GS-01	NOTES, LEGEND AND SYMBOLS
X 33	57S01	PILE LAYOUT PLAN
X 34	57S02	LOWER LEVEL PLAN
X 35	57S03	UPPER LEVEL PLAN
X 36	57S04	ROOF PLAN
X 37	57S05	SECTIONS AND DETAILS 1
X 38	57S06	SECTIONS AND DETAILS 2
X 39	57S07	SECTIONS AND DETAILS 3
X 40	57S08	SECTIONS AND DETAILS 4
X 41	57S09	SECTIONS AND DETAILS 5
		PROCESS MECHANICAL
42	00GM01	LEGEND AND SYMBOLS
X 43	00GM02	PIPE AND VALVE SCHEDULES
44	57M01	PROCESS FLOW DIAGRAM 1
45	57M02	PROCESS FLOW DIAGRAM 2
46	57M03	PROCESS FLOW DIAGRAM 3
47	57M04	DEWATERING BUILDING 3D PERSPECTIVE
48	57M05	DEWATERING BUILDING LOWER PLAN VIEW
49	57M06	DEWATERING BUILDING UPPER PLAN VIEW
50	57M07	SECTIONS AND DETAILS 1
51	57M08	SECTIONS AND DETAILS 2
52	57M09	SECTIONS AND DETAILS 3
X 53	57M10	SECTIONS AND DETAILS 4
		HVAC
54	00GH01	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
55	57H01	AIRFLOW SCHEMATIC
X 56	57H02	HVAC SCHEDULES
X 57	57H03	LOWER PLAN
X 58	57H04	UPPER PLAN
X 59	57H05	ROOF PLAN
		PLUMBING
X 60	00GP01	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
X 61	57P01	LOWER PLAN
X 62	57P02	UPPER PLAN
X 63	57P03	ROOF DRAINAGE PLAN
X 64	57P04	ISOMETRICS
		ELECTRICAL
65	0GE01	LEGEND
66	00GE02	DEMO ONE-LINE
67	00GE03	ONE-LINE
X 68	00GE04	OVERALL DUCT BANK LAYOUT PLAN
X 69	00GE05	PARTIAL DUCT BANK LAYOUT PLAN
X 70	00GE06	CONDUIT AND CONDUCTOR SCHEDULE
X 71	00GE07	DUCT BANK BLOCK DIAGRAM
X 72	00GE08	MCC-D PLAN AND ELEVATION
X 73	00GE09	MCC-D ONE-LINE DIAGRAM
X 74	00GE10	MODIFIED SWITCHBOARD SWG1 ONE-LINE DIAGRAM 1
X 75	00GE11	MODIFIED SWITCHBOARD SWG1 ONE-LINE DIAGRAM 2
X 76	00GE12	NEW ELECTRICAL CONTROL SCHEMATICS 1
X 77	00GE13	NEW ELECTRICAL CONTROL SCHEMATICS 2
X 78	00GE14	NEW ELECTRICAL CONTROL SCHEMATICS 3\
X 79	00GE15	PANELBOARD SCHEDULES 1
X 80	00GE16	PANELBOARD SCHEDULES 2
X 81	00GE17	208-120V ONE-LINE DIAGRAM
X 82	00GE18	TERMINATION CABINET
X 83	00GE19	EXISTING NON POTABLE WATER PUMPS 1 & 2 NEW CONTROL SCHEMATIC DIAGRAM
X 84	00GE20	EXISTING BFP CONTROL PANEL DEMOLITION AND MODIFICATION
X 85	12E01	EXISTING MCC-A ELEVATION
X 86	12E02	EXISTING MCC-A ONE-LINE DIAGRAM
X 87	12E06	EQUIPMENT RACK DETAIL
X 88	12E07	TYPICAL EQUIPMENT RACK GROUNDING
89	57E00	ELECTRICAL SITE PLAN
90	57E01	LOWER LEVEL POWER PLAN
91	57E02	UPPER LEVEL POWER PLAN
X 92	57E03	CONDUIT AND CONDUCTOR SCHEDULE
93	57E04	LOWER LEVEL LIGHTING PLAN
94	57E05	UPPER LEVEL LIGHTING PLAN
X 95	57E06	ELECTRICAL ROOM ELECTRICAL PLAN
X 96	57E07	UPPER LEVEL GROUNDING PLAN
X 97	57E08	ELECTRICAL ROOM LIGHTING PLAN
X 98	57E09	ELECTRICAL ROOM GROUNDING PLAN
X 99	57E10	POWER SUPPLY TO POLYMER AREA
		INSTRUMENTATION
X 100	00GN01	LEGEND P&ID
X 101	00GN02	EXISTING SYSTEM ARCHITECTURE DIAGRAM
X 102	00GN03	MODIFIED SYSTEM ARCHITECTURE DIAGRAM
X 103	00GN04	DETAILS 1 - SMOKE DETECTOR SCHEMATIC
X 104	00GN05	DETAILS 2 - RIO-E ENCLOSURE
X 105	00GN06	DETAILS 3 - RIO-E PANEL LAYOUT
X 106	00GN07	DETAILS 4 - SLUDGE PUMP CONTROL PANEL LAYOUT
X 107	50N02	THICKENED SLUDGE PUMP P&ID
X 108	50N03	EXISTING SLUDGE PUMPS P&ID
X 109	57N01	POLYMER BLENDING UNIT 1 P&ID
X 110	57N02	POLYMER BLENDING UNIT 2 P&ID
X 111	57N03	BELT FILTER PRESS 1 P&ID
X 111	57N04	BELT FILTER PRESS 2 P&ID
		TYPICAL DETAILS
X 113	99TC01	CIVIL TYPICAL DETAILS 1
X 114	99TC02	CIVIL TYPICAL DETAILS 2
X 115	99TC03	CIVIL TYPICAL DETAILS 3
X 116	99TC04	CIVIL TYPICAL DETAILS 4
X 117	99TC05	CIVIL TYPICAL DETAILS 5
X 118	99TC06	CIVIL TYPICAL DETAILS 6
X 119	99TA01	ARCHITECTURAL TYPICAL DETAILS 1
X 120	99TA02	ARCHITECTURAL TYPICAL DETAILS 2
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X 131	99TS07	STRUCTURAL TYPICAL DETAILS 7
X 132	99TS08	STRUCTURAL TYPICAL DETAILS 8
X 133	99TS09	STRUCTURAL TYPICAL DETAILS 9
X 134	99TM01	MECHANICAL TYPICAL DETAILS 1
X 135	99TM02	MECHANICAL TYPICAL DETAILS 2
X 136	99TP01	PIPING TYPICAL DETAILS 1
X 137	99TP02	PIPING TYPICAL DETAILS 2
X 138	99TP03	PIPING TYPICAL DETAILS 3
X 139	99TP04	PIPING TYPICAL DETAILS 4
X 140	99TH01	HVAC/PLUMBING TYPICAL DETAILS 1
X 141	99TH02	HVAC/PLUMBING TYPICAL DETAILS 2
X 142	99TH03	HVAC/PLUMBING TYPICAL DETAILS 3
X 143	99TE01	ELECTRICAL TYPICAL DETAILS 1
X 144	99TE02	ELECTRICAL TYPICAL DETAILS 2
X 145	99TE03	ELECTRICAL TYPICAL DETAILS 3
X 146	99TE04	ELECTRICAL TYPICAL DETAILS 4
X 147	99TE05	ELECTRICAL TYPICAL DETAILS 5

X - INDICATES DRAWINGS NOT CONTAINED IN THIS SUBMITTAL

30% DESIGN SUBMITTAL
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REV	DATE	BY	DESCRIPTION

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DATE JUNE 2025

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300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 366-9000

CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
GENERAL
DRAWING INDEX

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 00G02
SHEET NO. OF

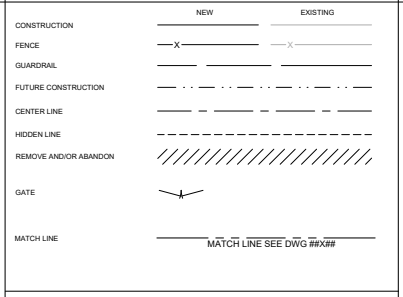
LAST SAVED BY: TLockwood
PROJECT NO.:203747-100000 FILE NAME: 203747_00G02.dwg

GENERAL NOTES

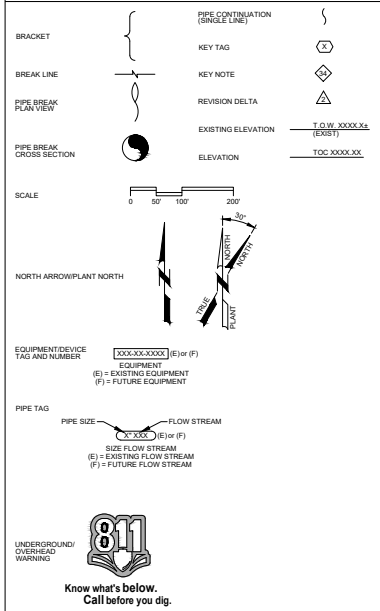
1. FOLLOWING NOTES ARE GENERAL AND APPLY TO ALL SHEETS OF THESE CONTRACT DOCUMENTS AS IF THEY WERE WRITTEN IN THEIR ENTIRETY ON EACH SHEET.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE STARTING WORK AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING CONDITIONS INCLUDING LOCATION AND DIMENSIONS OF ALL EXISTING CONSTRUCTION AND UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER IF THERE IS A CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONSTRUCTION BEFORE PROCEEDING WITH WORK.
3. UNLESS DETAILED, SPECIFIED, OR OTHERWISE INDICATED ON THE DRAWINGS, CONSTRUCTION SHALL BE AS INDICATED IN THE APPLICABLE TYPICAL DETAILS AND GENERAL NOTES. TYPICAL DETAILS SHALL APPLY EVEN THOUGH NOT REFERENCED AT SPECIFIC LOCATIONS ON DRAWINGS.
4. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF WORK. DETAILS SHALL BE IN THE SAME AS FOR OTHER SIMILAR WORK.
5. CONTRACTOR SHALL COMPLY WITH LOCAL CONSTRUCTION STORM WATER DISCHARGE REGULATIONS AND REQUIREMENTS.
6. PRIOR TO EXCAVATION FOR NEW STRUCTURES, ELECTRICAL CONDUIT, FABRICATION OF NEW PIPING AND/OR OTHER PROPOSED UTILITIES, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL EXISTING PIPING AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL TEMPORARILY RELOCATE CONFLICTING EXISTING UTILITIES AT TIE-IN/CONNECTION LOCATIONS AND REINSTALL THEM AS REQUIRED TO ELIMINATE THE CONFLICT AT NO ADDITIONAL COST TO THE OWNER.
7. ALL PIPELINES 12" AND LARGER SHALL HAVE A MINIMUM COVER OF 36" UNLESS THE COVER DEPTH IS SPECIFICALLY INDICATED ON THE DRAWINGS. PIPE SMALLER THAN 12" SHALL HAVE A MINIMUM COVER OF 30" UNLESS NOTED OTHERWISE. PIPES SHALL BE ROUTED AS SHOWN UNLESS MINOR REVISIONS ARE NECESSARY TO MISS EXISTING PIPES, STRUCTURES, ETC. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL FITTINGS AND ADAPTERS REQUIRED TO MAKE THE ROUTING CHANGES AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL INCLUDE COST FOR THIS IN THE BID.
8. EXISTING FACILITY AND UTILITY INFORMATION SHOWN ON THE DRAWINGS WAS OBTAINED FROM AVAILABLE RECORDS OR ELECTRONIC FILES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR FACILITIES AND UTILITIES NOT SHOWN OR NOT IN THE LOCATION SHOWN. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, SIZES, MATERIAL TYPES, AND ELEVATIONS SHOWN AROUND OR NEAR AREAS OF NEW CONSTRUCTION PRIOR TO START OF CONSTRUCTION.
9. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE EXISTING FACILITIES AND UTILITIES SHOWN OR NOT SHOWN THAT ARE TO REMAIN IN PLACE. ALL FACILITIES DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITIOUSLY REPAIRED OR RECONSTRUCTED TO THE ORIGINAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE WITHOUT ADDITIONAL COMPENSATION.
10. CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING PIPE, EQUIPMENT, ETC. AS REQUIRED AND SHALL PROVIDE ALL FITTINGS, ADAPTERS, AND APPURTENANCES REQUIRED TO MAKE THE CONNECTIONS. PROVIDE ALL SUPPORTS REQUIRED FOR A RIGIDLY SUPPORTED COMPLETE AND WORKING SYSTEM.
11. ADJUST ALL VALVE BOXES, VAULTS, PULL BOXES, AND MANHOLES TO FINISHED GRADE UNLESS OTHERWISE SHOWN OR DIRECTED. MANHOLES IN OPEN FIELDS SHALL BE SET TWELVE INCHES ABOVE FINISHED GRADE AND VAULTS SHALL BE SIX INCHES ABOVE FINISHED GRADE.
12. THE CONTRACTOR SHALL CONTACT THE PROPER UTILITY REPRESENTATIVE AS FOLLOWS FOR QUESTIONS OR COORDINATION OF CONSTRUCTION RELATED TO EXISTING UTILITIES.

    STATE/REGION/MUNICIPALITY SPECIFIC: 1-800-XXX-XXXX
13. CONTRACTOR SHALL VERIFY THAT PIPING SHOWN TO BE ABANDONED OR AS ABANDONED PREVIOUSLY IS NO LONGER IN SERVICE. LINES IN SERVICE SHALL BE MAINTAINED UNTIL NO LONGER REQUIRED BY THE PLANT.
14. ALL EXISTING PIPES THAT ARE TO BE ABANDONED IN PLACE OR REMOVED MAY NOT BE SHOWN. WHERE PIPING IS TO BE ABANDONED AND MUST REMAIN IN SERVICE UNTIL COMPLETION OF OTHER PHASES OF WORK, AND IT CONFLICTS WITH NEW PIPING, TEMPORARILY RELOCATE PIPING AS REQUIRED TO MAINTAIN SERVICE BY THE PLANT.
15. CONTRACTOR SHALL REROUTE THE EXISTING PIPING IF REQUIRED TO MISS THE PROPOSED STRUCTURES. THE EXISTING PIPE SHALL REMAIN IN SERVICE UNTIL NEW PIPING IS READY TO BE PLACED INTO SERVICE. DOWNTIME SHALL BE A MAXIMUM OF 2 HOURS, UNLESS SPECIFIED OR SHOWN OTHERWISE.
16. ALL SIDEWALKS TO BE 3'-0" WIDE UNLESS SHOWN OTHERWISE.
17. THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS IN THE VICINITY OF ANY OVERHEAD ELECTRIC LINES. CONTRACTOR SHALL ABIDE BY THE NATIONAL ELECTRIC CODE AND ANY REQUIREMENT BY THE OWNER OF THE ELECTRIC LINES.
18. PROVIDE ALL SHEETING/SHORING REQUIRED TO PROTECT EXISTING STRUCTURES, PIPES AND FACILITIES.
19. CONTRACTOR SHALL VERIFY LOCATION OF ALL ARCHITECTURAL, MECHANICAL, AND ELECTRICAL ITEMS BEFORE PLACING ANY STRUCTURAL STEEL OR CONCRETE. ALSO, STRUCTURAL DIMENSIONS AND OPENINGS CONTROLLED BY ARCHITECTURAL, MECHANICAL, OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
20. MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES, AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS, THAT ARE REQUIRED BY OTHER CONTRACT DRAWINGS, SHALL BE PROVIDED PRIOR TO CASTING CONCRETE.

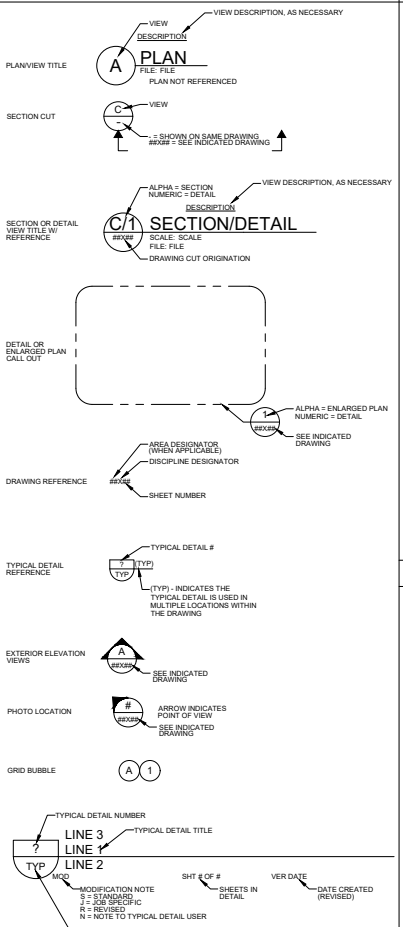
LINE WORK



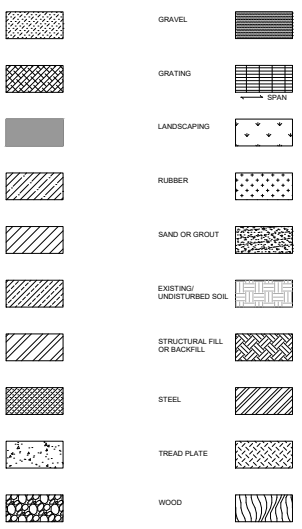
SYMBOLS



DETAIL REFERENCES



HATCH PATTERNS



MISCELLANEOUS

| | | |

A

AB	ANCHOR BOLT
ABC	AGGREGATE BASE COURSE
ABS	ACRYLONITRILE BUTADIENE STYRENE
AC	ASPHALTIC CONCRETE
ACB	AIR CIRCUIT BREAKER
ACI	AMERICAN CONCRETE INSTITUTE
ACP	ASBESTOS CEMENT PIPE
ACU	AIR CONDITIONING UNIT
AD	AREA DRAIN
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJUST, ADJUSTABLE
ADMIN	ADMINISTRATION
ADR	ACCESS DOOR
AED	AREA EQUIPMENT DRAIN
AER	AERAT(ION)(OR)
AFC	AFTERCOOLER
AFF	ABOVE FINISHED FLOOR
AFM	AIR FLOW MONITOR
AHU	AIR HANDLING UNIT
AIC	AIR COMPRESSOR
AIL	AIR INTAKE LOUVER
ALT	ALTERNATE
AL	ALUMINUM
ANCH	ANCHOR
ANV	ANGLE VALVE
APPROX	APPROXIMATE, APPROXIMATELY
ARCH	ARCHITECTURAL
ARV	AIR RELEASE VALVE
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AV	ACID VENT
AVG	AVERAGE
AVV	AIR AND VACUUM VALVE
AW	ACID WASTE

B

B.C	BEGIN CURVE, BRASS CAP, BACK OF CURB, BOLT CIRCLE
BCKR	BACKER BOARD
BCM	BATCHMETER
BD	BOARD
BDD	BACKDRAFT DAMPER
BDR	BASIN DRAIN LINE
BF	BLIND FLANGE
BFG	BELOW FINISHED GRADE
BFP	BELT FILTER PRESS
BFV	BUTTERFLY VALVE
BG	BREAK GLASS HAND SWITCH
BKW	BACKWASH
BLDG	BUILDING
BLK	BLOCK
BLKHD	BULKHEAD
BLR	PROCESS BLOWER
BM	BEAM, BENCH MARK
BO	BOTTOM OF
BOTT	BOTTOM
BOTTS	BOTTOM SLUDGE
BPV	BACK PRESSURE VALVE
BRG	BEARING
BSP	BLACK STEEL PIPE
BTU	BRITISH THERMAL UNITS
BTWN	BETWEEN
BV	BALL VALVE
BWCCP	BAR-WRAPPED CONCRETE CYLINDER PIPE

C

C	CLOSE, CONDUIT CHANNEL (STRUCTURAL)
CA	CONCRETE ANCHOR
CAUSTIC	CAUSTIC SOLUTION (CONCENTRATED OR DILUTE)
CB	CATCH BASIN
CC	CENTER OF CURVATURE, CENTER TO CENTER
CCB	CHLORINE CONTACT BASIN
CD	CEILING DIFFUSER, CONDENSATE DRAIN
CDL	CHEMICAL DRAIN LINE
CDT	CONDUIT
CEF	CEILING EXHAUST FAN
CF	CUBIC FEET
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHEMD	CHEMICAL DRAIN
CHF	CHEMICAL FEEDER
CHKD PL	CHECKERED PLATE
CI	CAST IRON
CIP	CAST IRON PIPE
CIRC	CIRCUMFERENTIAL/CIRCUMFERENCE
CJ	CONSTRUCTION JOINT
CKA	CHECK VALVE, ANGLE
CKB	CHECK VALVE, BALL
CKF	CHECK VALVE, FLAP
CKS	CHECK VALVE, SWING
CL	CENTER LINE
CLK	CHAIN LINK
CLD	CHLORINE LEAK DETECTOR
CLL	CHLORINE LIQUID
CLP	CHLORINE GAS (PRESSURE)
CLR	CLEAR
CLS	CHLORINE SOLUTION
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CLV	CHLORINE GAS (VACUUM)
CML	CEMENT MORTAR LINED
CMLC	CEMENT MORTAR LINED AND COATED
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CNV	CONVEYOR
CO	CLEANOUT
COL(S)	COLUMN(S)
CONC	CONCRETE
CONN	CONNECT, CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUATION OR (D) (OUS)
CORR	CORRUGATE(D), CORROSION
CP	CONTROL POINT
CPLG	COUPLING
CPT	CARPET
CPVC	CHLORINATED POLYVINYL CHLORIDE
CS	CARBON STEEL, CIRCULATING SLUDGE
CSP	CHEMICAL SUMP PUMP, CORRUGATED STEEL PIPE
CT	CURRENT TRANSFORMER, CERAMIC TILE
CTJ	CONTROL JOINT
CTL	CONTROL
CTR	CENTER, CENTERED
CTSK	COUNTERSUNK
CU	CUBIC
CUP	COPPER PIPE
CV	CHECK VALVE
CW	COLD WATER
CWV	COMBINATION WASTE AND VENT
CY	CUBIC YARD

D

D	DEPTH, DIGITAL OR DISCRETE, DRAIN
D/W	DRIVEWAY
DBL	DOUBLE
DDR	DESICCANT DRYER
DEG or °	DEGREE
DEMO	DEMOLISH, DEMOLITION
DET	DETAIL
DFL	DECANT/FILTRATE
DG	DOOR GRILLE
DIA or Ø	DIAMETER
DIAG	DIAGONAL
DIF	DIFFUSER
DIG	DIGESTER
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DIW	DEIONIZED WATER
DL	DEAD LOAD, DRAIN LINE
DLV	DOOR LOUVER
DMP	DAMPER
DMS	DIAPHRAGM SEAL
DN	DOWN
DO	DITTO
DO	DOOR OPENING
DP	DEEP (OR DEPTH)
DPV	DIAPHRAGM VALVE
DR	DOOR, DRAIN
DRT	DRIP TRAP
DRV	DRAIN VALVE
DS	DIGESTED SLUDGE, DOWN SPOUT
DSW	DISTILLED WATER, DOOR SWITCH
DUC	DUST COLLECTOR
DUH	DUCT HEATER UNIT
DW	DISTILLED WATER
DWD	DEWATERING DRAIN
DWG(S)	DRAWING(S)
DWL(S)	DOWEL(S)

E

E	EAST
EA	EACH
EC	END OF CURVE
ECC RED	ECCENTRIC REDUCER
ECU	EVAPORATOR COOLING UNIT
ED	EQUIPMENT DRAIN
EF	EXHAUST FAN, EACH FACE
EFF	EFFLUENT
EG	EXHAUST GRILLE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EJR	INJECTOR/EDUCTOR
EL	ELEVATION
ELEC	ELECTRICAL
ELL	ELBOW
EMBED	EMBEDMENT
EMH	ELECTRICAL MANHOLE
EP	EDGE OF PAVEMENT
EPS	EXPANDED POLYSTYRENE
EPV	ECCENTRIC PLUG VALVE
EQ	EQUAL
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ES	EACH SIDE
ESEW	EMERGENCY SHOWER AND EYE WASH
ESMT	EASEMENT
ESS	EMERGENCY HAND SWITCH
ET	ELECTRICALLY HEAT TRACED
EUH	ELECTRIC UNIT HEATER
EVR	EVAPORATOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWEF	EACH WAY EACH FACE
EWH	ELECTRIC WATER HEATER, EXHAUST
EX	EXISTING
EXIST	EXISTING
EXP	EXPANSION, EXPANSION TANK
EXPO	EXPOSED
EXT	EXTERIOR

F

FACT	FACTORY
FAD	FOUL AIR DUCT
FB	FLAT BAR
FBW	FILTER BACKWASH
FC	FACE OF CURB, FLEXIBLE COUPLING
FCA	FLANGE COUPLING ADAPTER
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER, FLOOR DRAIN, FOUND
FDC	FIRE DEPARTMENT CONNECTION
FDL	FLOOR DRAIN LINE
FDR	FEEDER
FEFF	FINAL EFFLUENT
FG	FLAP GATE
FH	FIRE HYDRANT
FILT	FILTRATE
FIN	FINISH
FIN FL	FINISHED FLOOR
FIN GR	FINISHED GRADE
FL	FLOOR, FLOW LINE
FLA	FOUL AIR
FLD	FILTER DRAIN
FLE	FILTER EFFLUENT
FLEX	FLEXIBLE
FLG	FLANGE, OR FLANGED
FLR	FILTER
FM	FORCE MAIN
FND	FOUNDATION
FO	FUEL OIL
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FPM	FEET PER MINUTE
FPP	FLEXIBLE PLASTIC PIPE
FRP	FIBERGLASS REINFORCED PLASTIC
FRPP	FIBERGLASS REINFORCED PLASTIC PIPE
FRS	FROTH SPRAY
FS	FAR SIDE
FSTN	FASTEN(ED)
FT or '	FOOT, FEET
FTG	FOOTING
FUP	FUEL DISPENSER
FV	FLAP VALVE
FW	FLUSHING WATER, FINISHED WATER
FX	FIRE EXTINGUISHER
FXC	FIRE EXTINGUISHER CABINET
FXE	FIRE EXTINGUISHER - ELECTRICAL

G

G	GAS, GROUND, GUTTER
GA	GAUGE or GAGE
GAL	GALLONS
GALV	GALVANIZE(D)
GAV	GRAVITY VENTILATOR
GB	GRADE BREAK
GBT	GRAVITY BELT THICKENER
GC	GROOVED COUPLING
GEL	GRAVITY EXHAUST LOUVER
GEN	GENERAL, GENERATOR
GL	GLASS
GLV	GLOBE VALVE
GM	GAS METER
GND	GROUND
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRADE
GRTG	GRATING
GRV	GRAVITY VENTILATOR
GSP	GALVANIZED STEEL PIPE
GV	GATE VALVE
GYP	GYPSUM

H

H	EXPLOSION-PROOF, HIGH, HORIZONTAL
H1E	HOOK ONE END
H2E	HOOK TWO ENDS
HAS	HEADED ANCHOR STUD
HB	HOSE BIBB
HDPE	HIGH DENSITY POLYETHYLENE
HDW	HARDWARE
HDWL	HEADWALL
HEF	HOOD EXHAUST FAN
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HEAT PUMP, HORSEPOWER, HIGH PRESSURE
HPA	HIGH PRESSURE AIR
HPT	HIGH POINT
HPU	HEAT PUMP UNIT AIR
HR	HANDRAIL, HOSE REEL, HOUR
HSF	HOOD SUPPLY FAN
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
HTX	HEAT EXCHANGER
HV	HOSE VALVE
HW	HOT WATER
HWL	HIGH WATER LEVEL
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
HxW	HEIGHT BY WIDTH
HYD	HYDRANT

I

IA	INSTRUMENT AIR
ID	INSIDE DIAMETER, INSIDE DIMENSION, IDENTIFICATION
I.F.	INSIDE FACE
IN or "	INCHES
INCL	INCLUDE, INCLUDING
INF	INFLUENT
INJ	INJECTOR
INSTR	INSTRUMENTATION
INSUL	INSULATIE)(ED)(ING)(ION)
INT	INTERIOR
INV	INVERT
IP	IRON PIPE
ISR	INTRINSICALLY SAFE RELAY

J

JST	JOIST
JT	JOINT

K

KGV	KNIFE GATE VALVE

L

L	ANGLE (STRUCTURAL), LENGTH, LOUVER
LAB	LABORATORY
LAV	LAVATORY
LB(S)	POUND(S)
LDF	LIQUID DIESEL FUEL
LDFR	LIQUID DIESEL FUEL RETURN
LF	LINEAL FEET
LG	LONG
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LHRA	LEFT HAND REVERSE ACTIVE
LHRB	LEFT HAND REVERSE BEVEL
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW PRESSURE
LPA	LOW PRESSURE AIR
LPG	LIQUIFIED PROPANE GAS
LPT	LOW POINT
LR	LONG RADIUS
LS	LAB SINK
LT	LEFT
LWL	LOW WATER LEVEL

M

M	MOTOR
MAINT	MAINTENANCE
MAN	MANUAL
MASY	MASONRY
MATL	MATERIAL
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MECHANICAL COUPLING
MCJ	MASONRY CONTROL JOINT
MD	MOTORIZED DAMPER
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURER
MG/L	MILLIGRAMS PER LITER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MIX	MIXER
MJ	MECHANICAL JOINT
MK	MARK
ML	MIXED LIQUOR
MO	MASONRY OPENING
MOD	MODIFIED
MOIST	MOISTURE
MON	MONUMENT
MOS	MOISTURE SEPARATOR
MPM	METERING PUMP
MS	MOP SINK
MTD	MOUNTED

N

N	NORTH, NEUTRAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEV	VALVE, NEEDLE
NG	NATURAL GRADE, NATURAL OR LP GAS
NIC	NOT IN CONTRACT
NO., #	NUMBER
NOM	NOMINAL
NPT	NATIONAL PIPE THREAD
NPW	NON-POTABLE WATER
NS	NEAR SIDE
NTS	NOT TO SCALE

O

O	OPEN
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER, OUTSIDE DIMENSION
OED	OPEN EQUIPMENT DRAIN
O.F.	OUTSIDE FACE
OFL	OVERFLOW
OPNG	OPENING
OPP	OPPOSITE
OPP HND	OPPOSITE HAND
OZ	OUNCE

P

P	POLE
PBL	POLYMER BLENDER
PC	POINT OF CURVATURE
PCC	PLANT CONTROL CENTER
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PCP	PROGRESSIVE CAVITY PUMP
PD	POSITIVE DISPLACEMENT, PLANT DRAIN
PD, PLD	PULSATION DAMPENER
PDP	POSITIVE DISPLACEMENT PUMP
PE	PLAIN END
PERP	PERPENDICULAR
PG	PRESSURE GAUGE
PH	PHASE, PHYSICALLY HANDICAPPED
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PL	PLATE, PROPERTY LINE
PLAS	PLASTIC
PLCS	PLACES
PLS	POLYMER SOLUTION
PLWD	PLYWOOD
PMP	PUMP
PNL(S)	PANEL(S)
POL	POLYMER
POLY	POLYETHYLENE
POS	POSITION
POW	POTABLE WATER
PP	POWER POLE
PPMV	PARTS PER MILLION (VOLUME)
PRC	POINT OF REVERSE CURVATURE
PREFAB	PREFABRICATED
PRG	PRESSURE REGULATOR
PRI	PRIMARY
PROJ	PROJECTION
PRR	PRESSURE OR VACUUM RELIEF VALVE
PRV	PRESSURE REDUCING VALVE, PRESSURE REGULATION VALVE, PRESSURE RELIEF VALVE
PS	PUMP STATION, PIPE SUPPORT
PSF	POUNDS PER SQUARE FOOT
PSG	PRESSURE GAUGE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PT	POINT, POINT OF TANGENCY
PV	PLUG VALVE
PVC	POINT OF VERTICAL CURVATURE, POLYVINYL CHLORIDE
PVDF	POLYVINYLIDENE FLUORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
PLW	PLANT WATER

Q

QTY	QUANTITY

R

R	RISER
R/W or R.O.W.	RIGHT OF WAY
RAD	RADIUS, RADIAL
RAS	RETURN ACTIVATED SLUDGE
RCP	REINFORCED CONCRETE PIPE
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RD	ROOF DRAIN
RDL	ROOF DRAIN LINE
RDOF	ROOF DRAIN OVERFLOW
RECIRC	RECIRCULATING
RED	REDUCER, ROOF EQUIPMENT DRAIN
REF	REFERENCE
REG	REGULATOR, REGULATING
REINF	REINFORCED(ING)(MENT)
REJ	RUBBER EXPANSION JOINT
REQD	REQUIRED
RER	REACTOR
RES	RESERVOIR
REV	REVISION, REVERSE
RF	RETURN FAN
RG	RETURN GRILLE RUBBER GASKET
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RHRA	RIGHT HAND REVERSE ACTIVE
RHRB	RIGHT HAND REVERSE BEVEL
RLS	REGISTERED LAND SURVEYOR
RM	ROOM
RO	ROUGH OPENING
ROT	ROTAMETER
RP	RADIUS POINT
RPM	REVOLUTIONS PER MINUTE
RPMP	REINFORCED PLASTIC MORTAR PIPE
RR	RETURN REGISTER
RT	RIGHT
RTF	ROTARY FEEDER
RTU	ROOF TOP UNIT
RUD	RUPTURE DISK
RW	RECLAIMED WATER, REUSE WATER
RWR	RECLAIMED WATER RETURN
RWW	RAW WASTEWATER

S

S/W	SIDEWALK
S	SOUTH, SWITCH, SLOPE
SA	SAMPLE
SC	SECONDARY CLARIFIER
SCB	SCRUBBER
SCD	SMOKE CONTROL DAMPER
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SCO	NON-POTABLE CLEANOUT
SCR	BAR SCREEN
SCR	SILICON CONTROL RECTIFIER
SD	SMOKE DETECTOR, SPLITTER DAMPER, STORM DRAIN
SDL	SUMP DISCHARGE DRAIN LINE
SDO	SLUDGE DRAWOFF
SE	SECONDARY EFFLUENT
SEC	SECONDARY, SECOND
SECT	SECTION
SED	SEDIMENTATION
SEP	SEPTAGE
SF	SUPPLY FAN
SFW	SOFTENED WATER
SG	SUPPLY GRILLE
SGS	STORE FRONT GLAZING SYSTEM
SHD	SHOWER DRAIN
SHDR	SOLIDS HANDLING-RECYCLE
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SK	SKIMMINGS
SL	SLOPE, SLUDGE
SLC	SLUDGE COLLECTOR DRIVE
SLG	SLIDE GATE
SLV	SLEEVE, VALVE
SMP	SAMPLER, SUMP PUMP
SN	SUPERNATANT OR SUBNATANT
SOL	SOLUTION
SP	STATIC PRESSURE, SET POINT
SPD	SUMP PUMP DRAIN
SPDT	SINGLE POLE DOUBLE THROW
SPEC(S)	SPECIFICATION(S)
SPL	SPLITTER BOX
SPR	SPARE
SPS	SAMPLE SINK
SPW	SAMPLE WATER
SQ	SQUARE
SQ FT	SQUARE FEET
SQ IN(S)	SQUARE INCH(ES)
SR	SHORT RADIUS, SUPPLY REGISTER
SRL	SCRUBBER RECIRCULATION LIQUID (CAUSTIC)
SS	SANITARY SEWER, SELECTOR SWITCH
SSK	SERVICE SINK
SSL	SECONDARY SLUDGE
SST	STAINLESS STEEL
ST	SLUDGE TRANSFER
STA	STATION
STB	STABILIZER
STD(S)	STANDARD(S)
STIFF	STIFFENER
STIR	STIRRUPS
STL	STEEL
STM	STEAM
STP	STEEL PIPE
STR	STRAINER
STRUCT	STRUCTURAL
SUG	SLUICE GATE
SUPT	PIPE SUPPORT, SUPPORT
SV	SERVICE VALVE, SHUTOFF VALVE, SOLENOID VALVE
SW	SANITARY WASTE
SWR	SEAL WATER
SYM	SYMMETRICAL
SYN	SYNTHETIC

T

T	TANGENT LENGTH, THERMOSTAT, TIMER, TREAD
T&B	TOP AND BOTTOM
TAS	THREADED ANCHOR STUD
TBM	TEMPORARY BENCHMARK
TC	TOP OF CURB
TCV	TEMPERATURE CONTROL VALVE
TDH	TOTAL DYNAMIC HEAD
TDR	TIME DELAY RELAY, TOWEL DISPENSER/RECEPTACLE
TEL	TELEPHONE
TH	TEST HOLE
THK	THICKENER, THICKNESS, THICK
TKS	THICKENED SLUDGE
TLV	TELESCOPING VALVE
TMH	TELEPHONE MANHOLE
TMP	TEMPERATURE
TNK	TANK
T.O.	TOP OF
TOC	TOP OF CONCRETE
TOG	TOP OF GRATING
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
T.O.W.	TOP OF WALL
TR	TRIAD (THREE CONDUCTOR SHIELDED CABLE), TIMING RELAY
TS	THICKENER SUPERNATANT OR SUBNATANT
TSD	THICKENED SLUDGE DECANT
TSPL	TURBIDIMETER SAMPLE
TSTAT	THERMOSTAT
TTB	TELEPHONE TERMINAL BOARD
TUR	TURBINE
TV	TURNING VANES
TWV	THREE-WAY VALVE
TYP	TYPICAL

U

UC	UNDERCUT
UG	UNDERGROUND
UHMWPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE
UHMW	ULTRA HIGH MOLECULAR WEIGHT
UNO	UNLESS NOTED OTHERWISE
US	UTILITY SINK

V

V	VALVE
VAR	VARIES
VB	VALVE BOX
VCP	VITRIFIED CLAY PIPE
VEC	VINYL ESTER COATING
VERT	VERTICAL
VF	VOLUMETRIC FEEDER
VG	VACUUM GAUGE, VALLEY GUTTER
VOL	VOLUME
VRV	VACUUM REGULATING VALVE
VTR	VENT THROUGH ROOF

W

W	WEST, WIDTH
W/	WITH
W/O	WITHOUT
WAS	WASTE ACTIVATED SLUDGE
WCO	WALL CLEANOUT
WEF	WALL EXHAUST FAN
WF	WALL FITTING, WASH FOUNTAIN
WH	WATER HEATER
WI	WEIGHT INDICATOR
WL	WALL LOUVER, WATER LEVEL
WM	WATER METER
WOD	WASTE OIL DRAIN
WP	WEATHERPROOF, WATERPROOF
WPT	WORKING POINT
WRG	WEIR GATE
WRS	WATER SOFTENER
WS	WATER SURFACE
WSTP	WASTEROTOP
WT	WALK THROUGH, WEIGHT
WTF	WATER TREATMENT FACILITY
WTP	WATER TREATMENT PLANT
WTR	WATER
WV	WATER CONTROL VALVE
WW	WASTEWATER
WWF	WELDED WIRE FABRIC
WWTF	WASTEWATER TREATMENT FACILITY
WWTP	WASTEWATER TREATMENT PLANT

Y

Y	WYE
YCO	YARD CLEANOUT
YH	YARD HYDRANT

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED CE
DRAWN CE
CHECKED
DATE JUNE 2025

carollo®
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
GENERAL
ABBREVIATIONS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 00G04
SHEET NO. OF

LAST SAVED BY: TLockwood

PROJECT NO.:203747-100000 FILE NAME:203747_00G04.dwg

		Facilities EXIST	NEW
Aerobic Digestion			
Sludge Transfer Pumps			
Type, Quantity	Submersible	2	0
Capacity, each, gpm	400 @ 16 ft		
Drive	Constant Speed		
Horsepow er, each	4		
Dew atering			
Sludge Day Tank	44,000 gal	1	0
Centrifuge Feed Pumps			
Type, Quantity	Progressing Cavity	0	2
Capacity, each, gpm	210 gpm @ 92 ft		
Drive	Variable Speed		
Horsepow er, each	15		
Dew atering Equipment			
Type, Quantity	Solid Bow l Centrifuge	0	2
Solids Loading, lb/hr	2100		
Hydraulic Loading, gpm	210 @ 1.9%		
Design Feed Solids	1.9% DS		
Horsepow er			
Main Drive	150		
Hydraulic Back Drive	40		
Centrifuge Polymer System			
Neat Polymer Tote, Quantity		0	2
Capacity, each, gal	3,000		
Polymer Blenders (standby shared w ith thickening)			
Type, quantity	Progressing Cavity	0	2
Neat flow , gph	1.5 to 15		
Dil. Wtr Flow , gph	600 to 6000		
Control	PLC ratio control		
Solution Concentration, active	0.12 to 0.30%		
Polymer Injection			
Type	Quill		
Cake Collection Conveyors			
Type, Quantity	Incline Screw , Shaftless	0	2
Diameter, in.	12		
Capacity, each, cf/hr	235 @ 50 lbs/cf		
Horsepow er, each	7.5		
Cake Distribution Conveyors			
Type, Quantity	Horizontal Screw , Shaftless	0	2
Diameter, in.	14		
Capacity, each, cf/hr	470 @ 50 lbs/cf		
Horsepow er, each	15		
Centrate Pump Station			
Number		1	0
Diameter, ft	6		
Bottom El., ft	668		
Low Level El., ft	669		
High Level El., ft	675		
Centrate Feed Pumps			
Type, Quantity	Submersible	2	0
Capacity, each, gpm	400 @ 26 ft		
Drive	Constant Speed		
Horsepow er, each	5		

LAST SAVED BY: KMarshall

REV	DATE	BY	DESCRIPTION
			30% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

DESIGNED MS
DRAWN TBL
CHECKED
DATE JUNE 2025

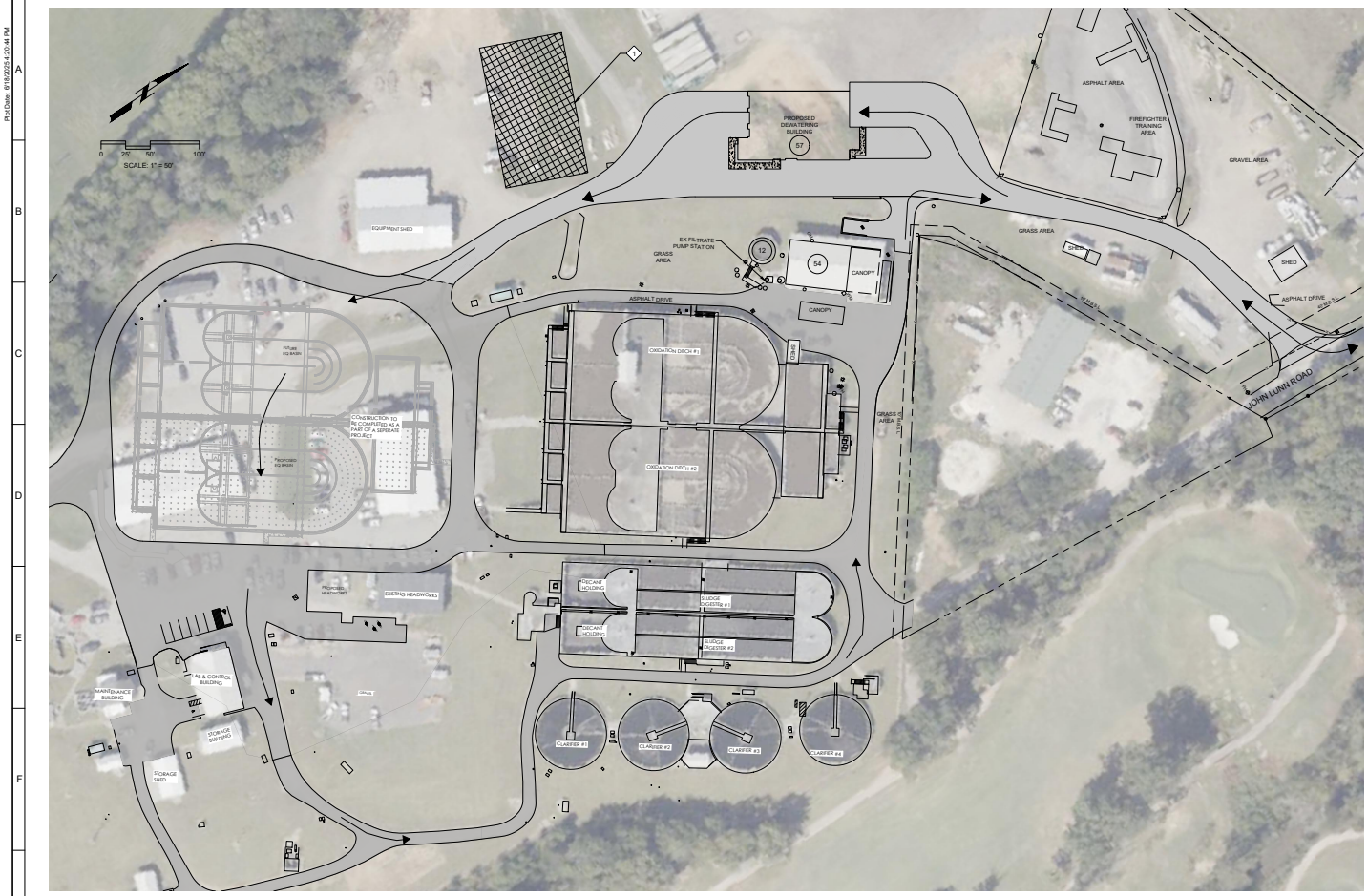
carollo®
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 385-9080

CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
GENERAL
DESIGN CRITERIA

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 00G05
SHEET NO. XX OF

PROJECT NO.
FILE NAME: ProjNum_Sheet.dwg



GENERAL NOTES:

1. TYPICAL DELIVERY TRUCK TRAFFIC ROUTE ROADWAY TO BE KEPT ACCESSIBLE AT ALL TIMES.
2. THE CONTRACTOR SHALL USE THE DESIGNATED ROADS AS SHOWN.
3. THE CONTRACTOR SHALL COORDINATE PROJECT TRAFFIC ON THE WASTE WATER TREATMENT PLANT SITE WITH THE OWNER.
4. CONTRACTOR SHALL LIMIT VEHICLES SPEEDS TO A MAXIMUM OF 10 MPH.
5. CONTRACTOR SHALL PROVIDE DETAILED TRAFFIC, STAGING, PARKING PLAN TO OWNER FOR APPROVAL PRIOR TO MOBILIZATION. PLAN SHALL INCLUDE PROPOSED SIGNAGE WITH KEY MAP OF LOCATION.
6. CONTRACTOR SHALL ESTABLISH AND MAINTAIN STAGING AND CONSTRUCTION ENTRANCE CONSTRUCTION FENCING ACCESS ROAD FOR DURATION OF PROJECT.
7. CONTRACTOR PERSONNEL VEHICLES MUST BE PARKED OFFSITE.

KEY NOTES:

1. CONTRACTOR STAGING AREA, APPROXIMATELY 85' X 145'. FINAL STAGING AREA LAYOUT AND LOCATION TO BE COORDINATED WITH OWNER.

Tennessee811
Know what's below. Call before you dig.

LEGEND

- STAGING AREA
- (12) SLUDGE DAY TANK
- (54) BELT FILTER PRESS BUILDING
- (57) PROPOSED DEWATERING BUILDING

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED FAO
DRAWN FAO
CHECKED
DATE JUNE 2025

carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
CIVIL
OVERALL SITE PLAN

VERIFY SCALES
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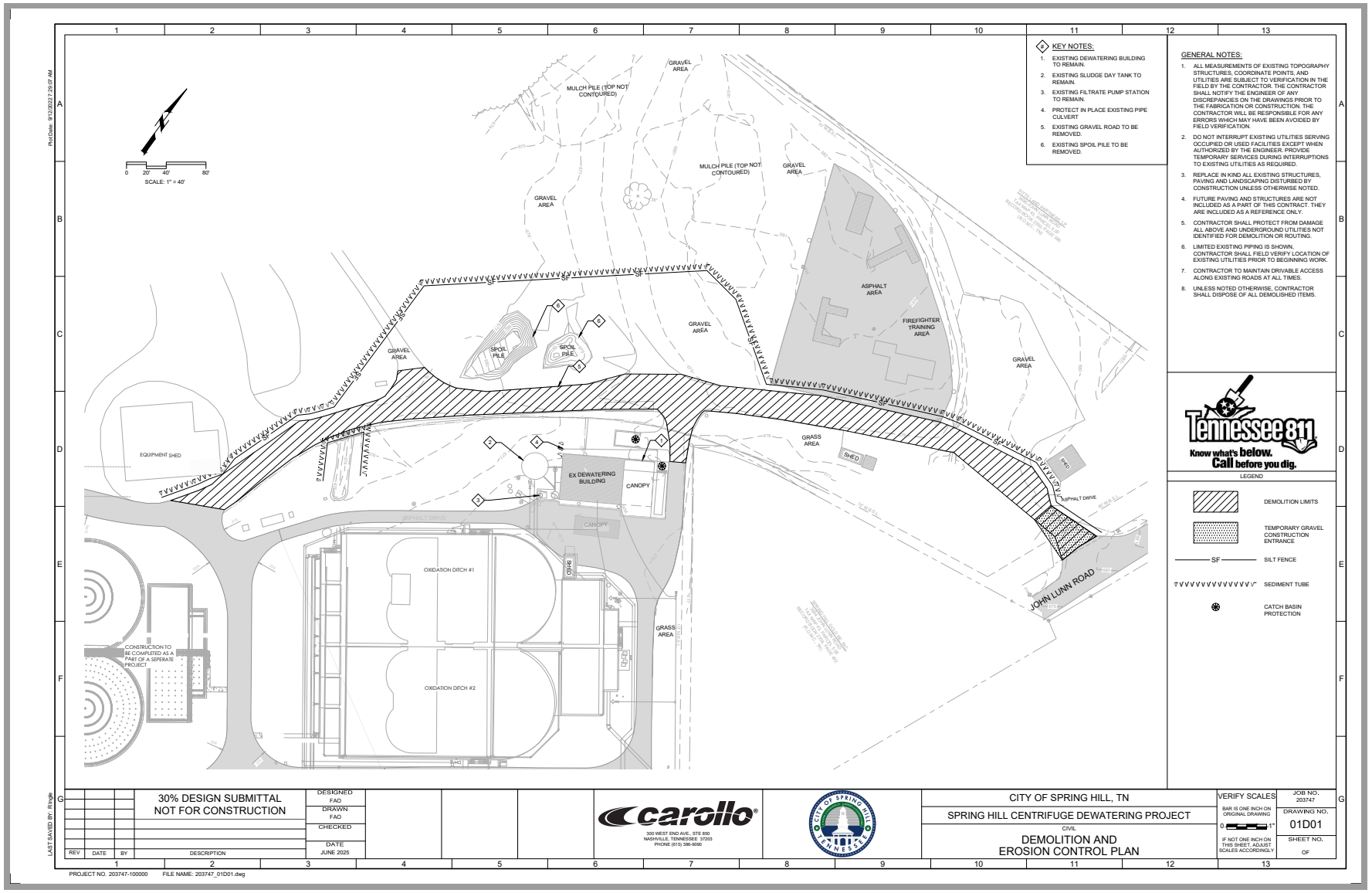
JOB NO. 203747
DRAWING NO. 00G06
SHEET NO. OF

PROJECT NO. 203747-100000 FILE NAME: 203747_00GC03.dwg

Plot Date: 6/18/2025 4:20:44 PM
LAST SAVED BY: RHyde


SCALE: 1" = 40'
KEY NOTES:
1. EXISTING DEWATERING BUILDING TO REMAIN.
2. EXISTING SLUDGE DAY TANK TO REMAIN.
3. EXISTING FILTRATE PUMP STATION TO REMAIN.
4. PROTECT IN PLACE EXISTING PIPE CULVERT
5. EXISTING GRAVEL ROAD TO BE REMOVED.
6. EXISTING SPOIL PILE TO BE REMOVED.
GENERAL NOTES:
1. ALL MEASUREMENTS OF EXISTING TOPOGRAPHY STRUCTURES, COORDINATE POINTS, AND UTILITIES ARE SUBJECT TO VERIFICATION IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE DRAWINGS PRIOR TO THE FABRICATION OR CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MAY HAVE BEEN AVOIDED BY FIELD VERIFICATION.
2. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES EXCEPT WHEN AUTHORIZED BY THE ENGINEER. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS REQUIRED.
3. REPLACE IN KIND ALL EXISTING STRUCTURES, PAVING AND LANDSCAPING DISTURBED BY CONSTRUCTION UNLESS OTHERWISE NOTED.
4. FUTURE PAVING AND STRUCTURES ARE NOT INCLUDED AS A PART OF THIS CONTRACT. THEY ARE INCLUDED AS A REFERENCE ONLY.
5. CONTRACTOR SHALL PROTECT FROM DAMAGE ALL ABOVE AND UNDERGROUND UTILITIES NOT IDENTIFIED FOR DEMOLITION OR ROUTING.
6. LIMITED EXISTING PIPING IS SHOWN, CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING WORK.
7. CONTRACTOR TO MAINTAIN DRIVABLE ACCESS ALONG EXISTING ROADS AT ALL TIMES.
8. UNLESS NOTED OTHERWISE, CONTRACTOR SHALL DISPOSE OF ALL DEMOLISHED ITEMS.
Tennessee 811
Know what's below. Call before you dig.
LEGEND
DEMOLITION LIMITS
TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
SILT FENCE
SEDIMENT TUBE
CATCH BASIN PROTECTION
GRAVEL AREA
MULCH PILE (TOP NOT CONTOURED)
ASPHALT AREA
FIREFIGHTER TRAINING AREA
SPOIL PILE
EQUIPMENT SHED
EX DEWATERING BUILDING
CANOPY
SHED
GRASS AREA
ASPHALT DRIVE
JOHN LUNN ROAD
OXIDATION DITCH #1
OXIDATION DITCH #2
CONSTRUCTION TO BE COMPLETED AS A PART OF A SEPERATE PROJECT
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED FAO
DRAWN FAO
CHECKED
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
CIVIL
DEMOLITION AND EROSION CONTROL PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 01D01
SHEET NO.
OF
PROJECT NO. 203747-100000
FILE NAME: 203747_01D01.dwg
Plot Date: 9/12/2025 7:29:07 AM
LAST SAVED BY: Ringle

GENERAL NOTES

GENERAL PIPELINE NOTES:

1. DIMENSIONS TO STRUCTURES, REFERENCED PIPING, PAVING, AND OTHER IMPROVEMENTS IS APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS 14 DAYS IN ADVANCE OF THE CONSTRUCTION PROGRESS. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER.
2. CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE OF 10 FEET HORIZONTAL AND 3 FEET VERTICAL BETWEEN THE SEWER LINES AND EXISTING WATER LINES.
3. REFER TO THE GEOTECHNICAL REPORT LOCATED IN THE APPENDIX OF THE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON THE GEOTECHNICAL CONDITIONS AND BORING INFORMATION.
4. IN ALL LOCATIONS WHERE TRENCH PLATE IS USED FOR VEHICULAR OR PEDESTRIAN TRAFFIC, THE CONTRACTOR SHALL APPLY SKID RESISTANT COATING ON THE TRENCH PLATES AND COLD MIX ASPHALT CONCRETE AT THE EDGES. THE TRENCH PLATES SHALL BE NOTCHED INTO THE ASPHALT, CONCRETE, OR TRAVELED SURFACE TO PREVENT SLIPPAGE AND ROCKING UNDER TRAFFIC.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES ADJACENT TO THE WORK, THROUGHOUT THE CONSTRUCTION PERIOD.
6. ALL OPEN TRENCHES, WORK AREAS AND SHAFTS SHALL HAVE A SHORING SYSTEM IN ACCORDANCE WITH OSHA, STATE AND LOCAL REQUIREMENTS.
7. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, COUNTY, AND LOCAL LAWS AND ORDINANCES RELATING TO THE SAFETY AND CHARACTER OF WORK, EQUIPMENT AND PERSONNEL. THIS INCLUDES BUT IS NOT LIMITED TO SHEETING, SHORING, BRACING, VENTILATION, CONFORMANCE WITH TRAFFIC CONTROL AND MAINTENANCE OF BARRICADES AND WARNING DEVICES.
8. LAYOUT DRAWINGS ARE REQUIRED FOR PIPING INSTALLED.
9. ALL ROAD DITCHES, FENCE LINES, PASTURES AND SIMILAR AREAS SHALL BE RESTORED PER SPECIFICATIONS.
10. CONTRACTOR SHALL TAKE ALL PRACTICAL PRECAUTIONS TO MINIMIZE DISTURBANCES TO STREAMS, VEGETATION, TREES AND CROP LANDS. WHEREVER PRACTICAL LEAVE EXISTING TREES AND VEGETATED AREAS UNDISTURBED.

UTILITY NOTES:

1. EXISTING UTILITIES IN THE PROJECT MAY BE IN A FRAGILE CONDITION. THE CONTRACTOR SHALL EXERCISE NECESSARY CAUTION WHEN WORKING NEAR EXISTING UTILITIES.
2. PLAN LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES ARE BASED ON RECORD DRAWINGS, POTHOLING AND SURVEY INFORMATION AND ARE CONSIDERED APPROXIMATE ONLY. WHERE NO ELEVATIONS ARE SHOWN, NO INFORMATION WAS AVAILABLE DURING THE DESIGN PERIOD.
3. SOME UTILITY SERVICES MAY NOT BE SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO LOCATE AND PROTECT SERVICE DURING CONSTRUCTION.
4. CONTRACTOR SHALL CALL TENNESSEE 811 AT (800) 351-1111 PRIOR TO ANY EXCAVATION ACTIVITIES.
5. THE LOCATION, SIZE, AND MATERIALS OF EXISTING UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND IS SHOWN FOR BIDDING PURPOSES. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTACT THE UTILITY OWNERS SO THAT THOSE UTILITIES MAY MARK THE LOCATION OF THEIR UTILITIES PRIOR TO ANY EXCAVATION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND PROTECT EXISTING UTILITIES.

EARTHWORK NOTES:

1. CLEAR THE CONSTRUCTION AREA OF NATURAL OBSTRUCTIONS EXISTING FOUNDATIONS, BUILDINGS, FENCES, LUMBER, WALLS, STUMPS, BRUSH, WEEDS, RUBBISH, TREES, BOULDERS, AND ANY OTHER ITEMS WHICH INTERFERES WITH CONSTRUCTION OPERATIONS OR ARE DESIGNATED FOR REMOVAL.
2. GRUB OUT AND DISPOSE OF TREE TRUNKS AND ROOT MATERIAL BELOW THE GROUND SURFACE REMAINING AFTER CLEARING.
3. DISPOSE OF THE UNACCEPTABLE BACKFILL MATERIAL FROM THE CLEARING AND GRUBBING OPERATIONS AT NO ADDITIONAL COST TO THE OWNER.
4. STRIP AND STOCKPILE THE TOPSOIL. THE DEPTH OF STRIPPING SHALL BE ESTIMATED TO BE 12-INCHES BUT WILL BE DETERMINED IN THE FIELD AS SOIL CONDITIONS DICTATE.
5. REPLACE STOCKPILED SOIL AND RESTORE SITE AS SPECIFIED.
6. ROCK AND AGGREGATE STORAGE AREAS SHALL BE RESTORED BY EXCAVATING ANY SOILS CONTAINING ROCK OR AGGREGATE AND BACKFILLING WITH TOPSOIL. SOIL REMOVED MAY BE USED FOR TRENCH BACKFILL ABOVE THE PIPE ZONE AND 3 FEET BELOW FINISHED GRADE.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES THROUGH THE DURATION OF CONSTRUCTION FOR THE PROTECTION OF EXISTING AND NEWLY INSTALLED UTILITIES FROM DAMAGE OR DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING SUCH MEASURES AS NECESSARY TO PROTECT THE HEALTH, SAFETY AND WELFARE OF THOSE PERSONS HAVING ACCESS TO THE WORK SITE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS BEFORE COMMENCING WORK.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING, DISPOSE, REPAIRING OR REPLACING AND REMOVING AND DISPOSING ANY DAMAGED ITEMS INCLUDING, BUT NOT LIMITED TO, DRIVEWAYS, SIDEWALKS, BOLLARDS, SIGNS, STORM CULVERTS, FENCES AND LANDSCAPING AS REQUIRED BY OWNER, ENGINEER OF RECORD, AND/OR OTHER GOVERNING ENTITIES.
4. ALL DISTURBED AREAS SHALL BE RESTORED, INCLUDING REGRADING, TO THEIR ORIGINAL CONDITION OR BETTER UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR REGRADING AND REPLANTING VEGETATION IN ALL AREAS DISTURBED BY THE CONSTRUCTION.
6. CONTRACTOR SHALL PROVIDE ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND SERVICES NEEDED TO ENSURE ADEQUATE EROSION AND SEDIMENT CONTROL MEASURES. THESE MEASURES SHALL CONFORM TO THE PLANS AND SPECIFICATIONS AND ALL STATE AND LOCAL REQUIREMENTS.
7. NO FIELD CHANGES OR DEVIATION FROM DESIGN SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE COUNTY IN WRITING.
8. NO CONNECTIONS TO, OR ANY OTHER CONSTRUCTION SHALL BE PERFORMED ON AN EXISTING UTILITY MAIN OR STRUCTURE WITHOUT THE PRESENCE OF A COLLIER COUNTY UTILITY INSPECTOR.
9. CONTRACTOR SHALL CONFIRM LIMITS OF STAGING AREA WITH PLANT MANAGER.
10. EXCAVATION MUST MEET OSHA REQUIREMENTS AND CONTRACTOR SHALL CONFORM TO THE GUIDELINES SET FOR IN THE TRENCH SAFETY ACT THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR SHALL PROVIDE WRITTEN ASSURANCE THAT THE TRENCH EXCAVATION WILL COMPLY WITH THE APPLICABLE TRENCH SAFETY STANDARDS.
11. ALL UTILITY, PIPE AND STRUCTURAL BEDDING AND BACKFILL SHALL CONFORM TO SPECIFICATIONS.
12. CONTRACTORS SHALL BE RESPONSIBLE FOR THE LOCATION AND IDENTIFICATION OF ALL EXISTING UTILITIES AND UNDERGROUND PIPELINES IN CONSTRUCTION AREA. ANY DAMAGES TO EXISTING UTILITIES OR UNDERGROUND PIPELINES ON OR OFF THE PROPERTY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL REPAIR WORK SHALL MEET THE APPROVAL OF THE OWNER OF THE DAMAGED UTILITY. NO REIMBURSEMENT WILL BE ALLOWED FOR UTILITY PIPE REPAIR OR REPLACEMENT. CONTRACTOR SHALL BE AWARE THAT THIS IS AN EXISTING WATER TREATMENT PLANT SITE. NEW WORK HAS BEEN DESIGNED BASED ON THE BEST AVAILABLE INFORMATION TO UTILITIES MAY REQUIRE MINOR FIELD ADJUSTMENTS OR HAND DIGGING TO MINIMIZE DAMAGE TO EXISTING FEATURES.

REV	DATE	BY	DESCRIPTION
			30% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

DESIGNED FAO
DRAWN FAO
CHECKED CHK
DATE JUNE 2025

carollo®
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

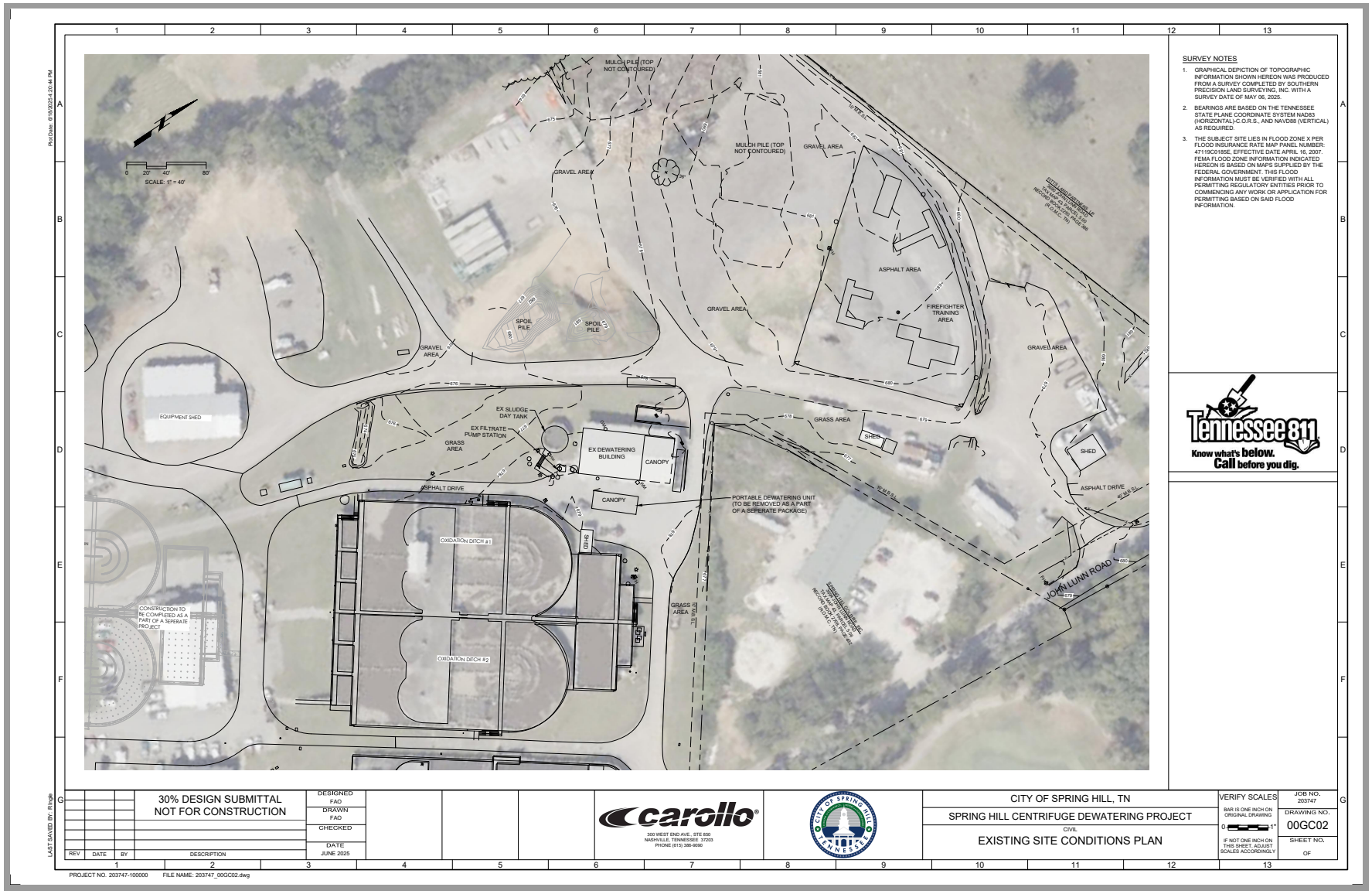
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
CIVIL
CIVIL NOTES

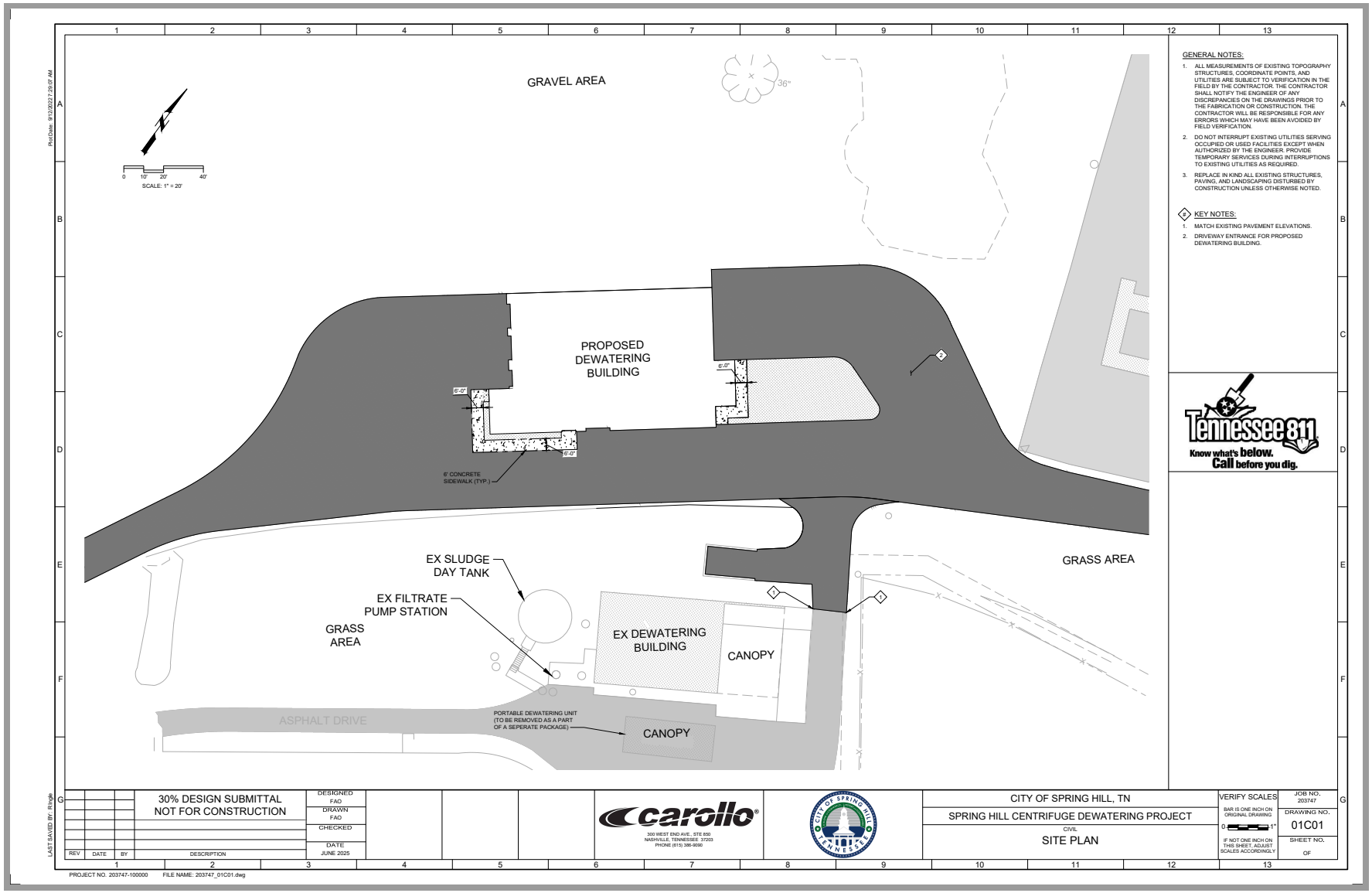
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

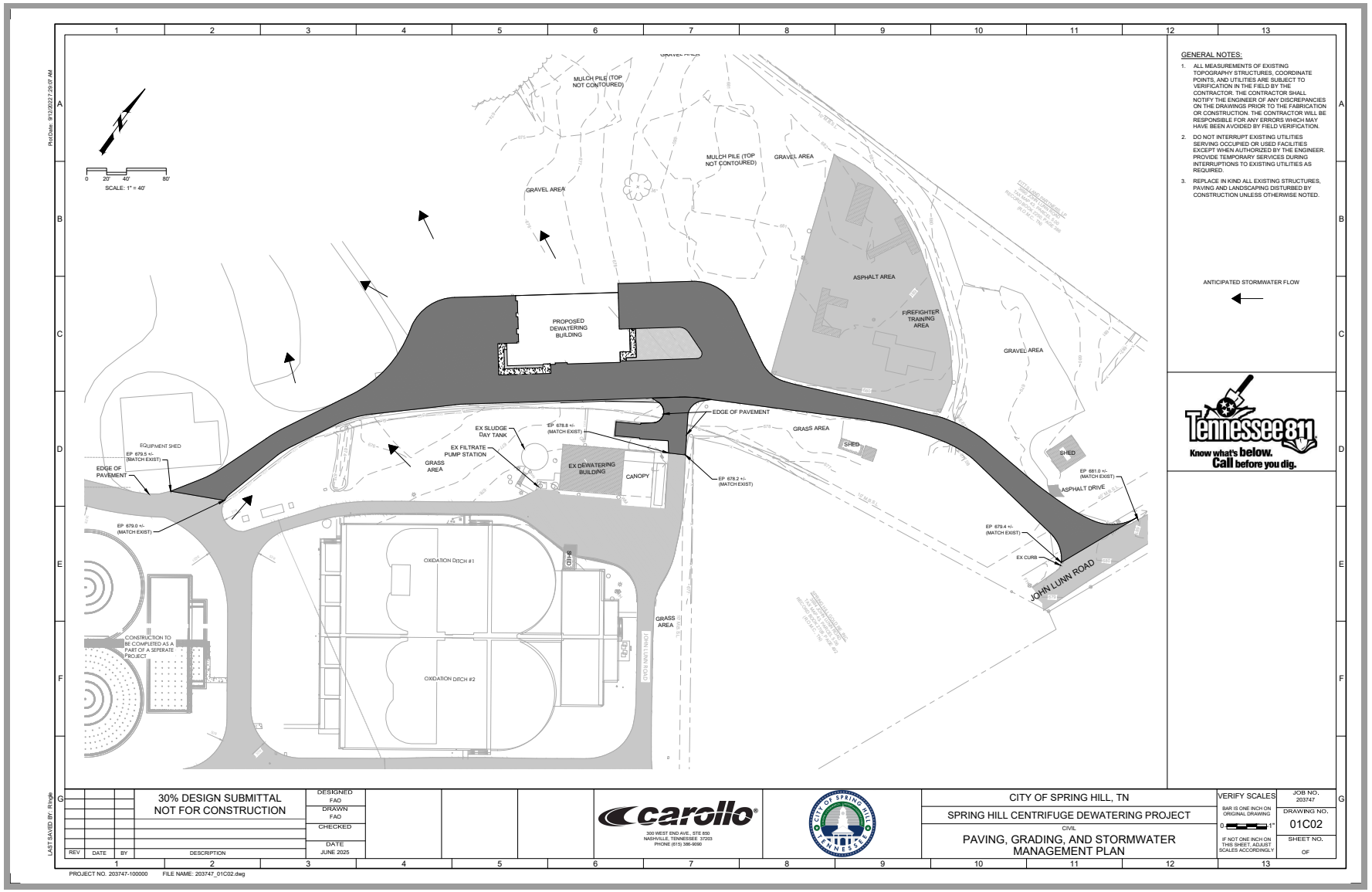
JOB NO. 203747
DRAWING NO. 00GC01
SHEET NO. 1 OF

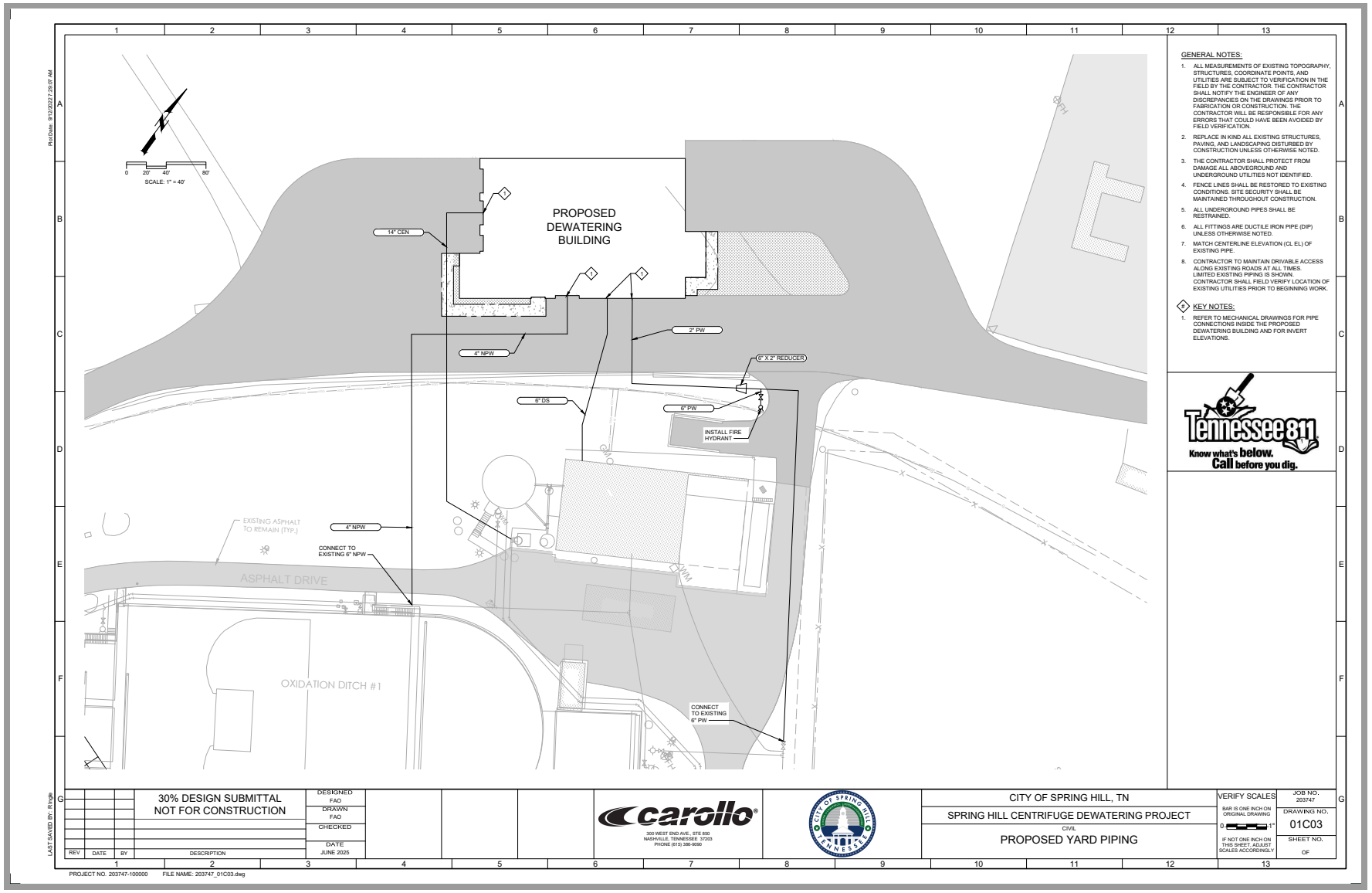
PROJECT NO. 201341-100000 FILE NAME: 203747_00GC01.dwg

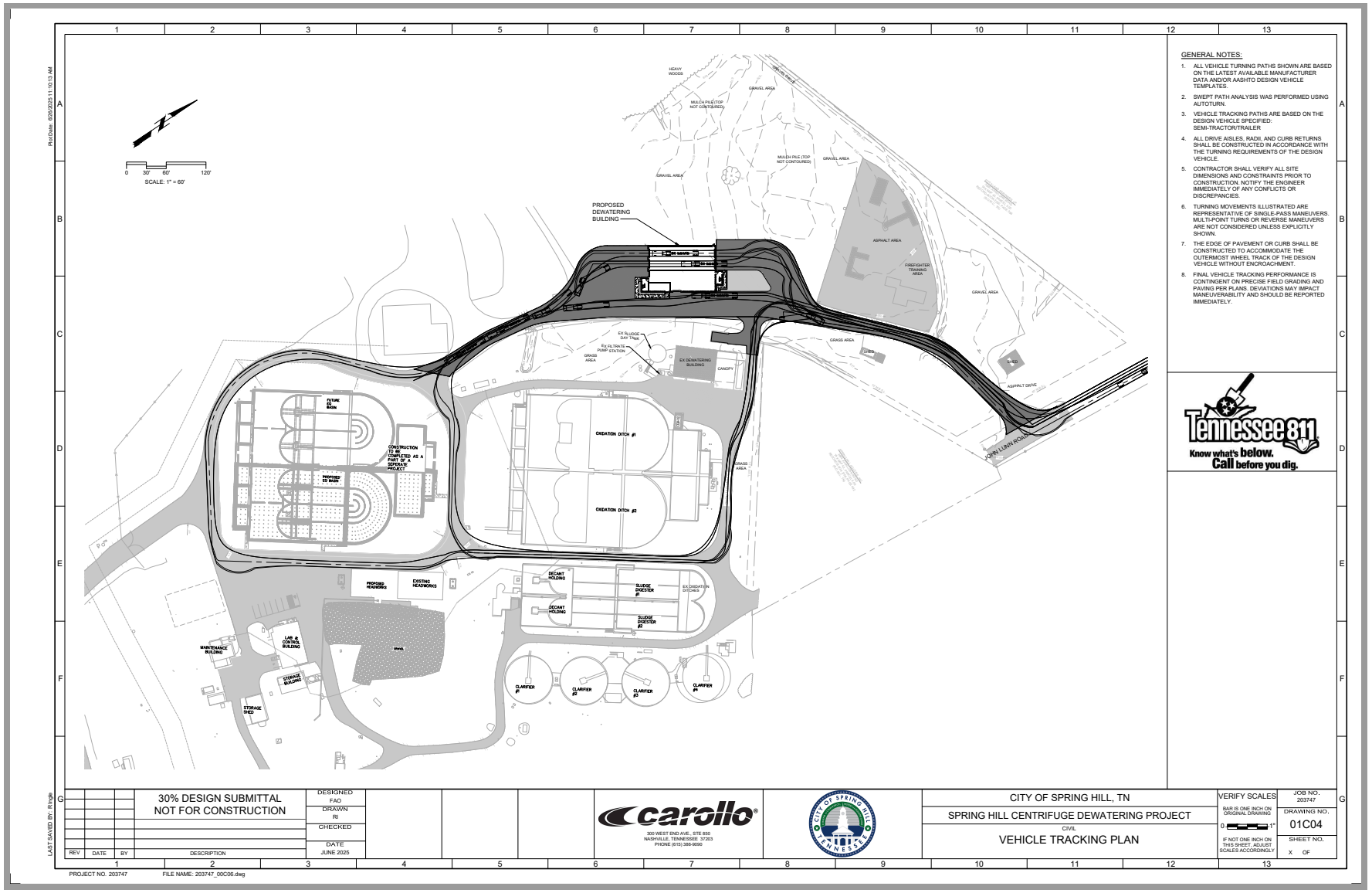
Plot Date: 9/5/2023 11:06:47 AM
LAST SAVED BY: mgile


SCALE: 1" = 40'
MULCH PILE (TOP NOT CONTOURED)
GRAVEL AREA
SPOIL PILE
ASPHALT AREA
FIREFIGHTER TRAINING AREA
EQUIPMENT SHED
EX SLUDGE DAY TANK
EX FILTRATE PUMP STATION
GRASS AREA
EX DEWATERING BUILDING
CANOPY
SHED
ASPHALT DRIVE
PORTABLE DEWATERING UNIT (TO BE REMOVED AS A PART OF A SEPERATE PACKAGE)
OXIDATION DITCH #1
OXIDATION DITCH #2
CONSTRUCTION TO BE COMPLETED AS A PART OF A SEPERATE PROJECT
JOHN LUNN ROAD
SURVEY NOTES
1. GRAPHICAL DEPICTION OF TOPOGRAPHIC INFORMATION SHOWN HEREON WAS PRODUCED FROM A SURVEY COMPLETED BY SOUTHERN PRECISION LAND SURVEYING, INC. WITH A SURVEY DATE OF MAY 06, 2025.
2. BEARINGS ARE BASED ON THE TENNESSEE STATE PLANE COORDINATE SYSTEM NAD83 (HORIZONTAL)-C.O.R.S., AND NAVD88 (VERTICAL) AS REQUIRED.
3. THE SUBJECT SITE LIES IN FLOOD ZONE X PER FLOOD INSURANCE RATE MAP PANEL NUMBER: 47119C0185E, EFFECTIVE DATE APRIL 16, 2007. FEMA FLOOD ZONE INFORMATION INDICATED HEREON IS BASED ON MAPS SUPPLIED BY THE FEDERAL GOVERNMENT. THIS FLOOD INFORMATION MUST BE VERIFIED WITH ALL PERMITTING REGULATORY ENTITIES PRIOR TO COMMENCING ANY WORK OR APPLICATION FOR PERMITTING BASED ON SAID FLOOD INFORMATION.
Tennessee811
Know what's below. Call before you dig.
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED FAO
DRAWN FAO
CHECKED
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
CIVIL
EXISTING SITE CONDITIONS PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 00GC02
SHEET NO.
OF
PROJECT NO. 203747-100000
FILE NAME: 203747_00GC02.dwg


GRAVEL AREA
36"
SCALE: 1" = 20'
PROPOSED DEWATERING BUILDING
6'-0"
6'-0"
6'-0"
6' CONCRETE SIDEWALK (TYP.)
EX SLUDGE DAY TANK
EX FILTRATE PUMP STATION
GRASS AREA
EX DEWATERING BUILDING
CANOPY
GRASS AREA
ASPHALT DRIVE
PORTABLE DEWATERING UNIT (TO BE REMOVED AS A PART OF A SEPERATE PACKAGE)
CANOPY
GENERAL NOTES:
1. ALL MEASUREMENTS OF EXISTING TOPOGRAPHY STRUCTURES, COORDINATE POINTS, AND UTILITIES ARE SUBJECT TO VERIFICATION IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE DRAWINGS PRIOR TO THE FABRICATION OR CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MAY HAVE BEEN AVOIDED BY FIELD VERIFICATION.
2. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES EXCEPT WHEN AUTHORIZED BY THE ENGINEER. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS REQUIRED.
3. REPLACE IN KIND ALL EXISTING STRUCTURES, PAVING, AND LANDSCAPING DISTURBED BY CONSTRUCTION UNLESS OTHERWISE NOTED.
KEY NOTES:
1. MATCH EXISTING PAVEMENT ELEVATIONS.
2. DRIVEWAY ENTRANCE FOR PROPOSED DEWATERING BUILDING.
Tennessee811
Know what's below. Call before you dig.
30% DESIGN SUBMITTAL NOT FOR CONSTRUCTION
DESIGNED FAO
DRAWN FAO
CHECKED
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
300 WEST END AVE., STE 850 NASHVILLE, TENNESSEE 37203 PHONE (615) 386-9090
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
CIVIL
SITE PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 01C01
SHEET NO.
OF
PROJECT NO. 203747-100000
FILE NAME: 203747_01C01.dwg


SCALE: 1" = 40'
MULCH PILE (TOP NOT CONTOURED)
GRAVEL AREA
ASPHALT AREA
FIREFIGHTER TRAINING AREA
PROPOSED DEWATERING BUILDING
EDGE OF PAVEMENT
GRASS AREA
SHED
EQUIPMENT SHED
EP 679.5 +/- (MATCH EXIST)
EDGE OF PAVEMENT
EX SLUDGE DAY TANK
EP 678.8 +/- (MATCH EXIST)
EX FILTRATE PUMP STATION
GRASS AREA
EX DEWATERING BUILDING
CANOPY
EP 678.2 +/- (MATCH EXIST)
EP 681.0 +/- (MATCH EXIST)
ASPHALT DRIVE
EP 679.0 +/- (MATCH EXIST)
EP 679.4 +/- (MATCH EXIST)
EX CURB
JOHN LUNN ROAD
OXIDATION DITCH #1
OXIDATION DITCH #2
BRIDGE
CONSTRUCTION TO BE COMPLETED AS A PART OF A SEPERATE PROJECT
GRASS AREA
JOHN LUNN ROAD
GENERAL NOTES:
1. ALL MEASUREMENTS OF EXISTING TOPOGRAPHY STRUCTURES, COORDINATE POINTS, AND UTILITIES ARE SUBJECT TO VERIFICATION IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE DRAWINGS PRIOR TO THE FABRICATION OR CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ERRORS WHICH MAY HAVE BEEN AVOIDED BY FIELD VERIFICATION.
2. DO NOT INTERRUPT EXISTING UTILITIES SERVING OCCUPIED OR USED FACILITIES EXCEPT WHEN AUTHORIZED BY THE ENGINEER. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES AS REQUIRED.
3. REPLACE IN KIND ALL EXISTING STRUCTURES, PAVING AND LANDSCAPING DISTURBED BY CONSTRUCTION UNLESS OTHERWISE NOTED.
ANTICIPATED STORMWATER FLOW
Tennessee811
Know what's below. Call before you dig.
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED FAO
DRAWN FAO
CHECKED
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
CIVIL
PAVING, GRADING, AND STORMWATER MANAGEMENT PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 01C02
SHEET NO.
OF
PROJECT NO. 203747-100000
FILE NAME: 203747_01C02.dwg


SCALE: 1" = 40'
PROPOSED DEWATERING BUILDING
14" CEN
2" PW
4" NPW
6" X 2" REDUCER
6" DS
6" PW
INSTALL FIRE HYDRANT
EXISTING ASPHALT TO REMAIN (TYP.)
4" NPW
CONNECT TO EXISTING 6" NPW
ASPHALT DRIVE
OXIDATION DITCH #1
CONNECT TO EXISTING 6" PW
GENERAL NOTES:
1. ALL MEASUREMENTS OF EXISTING TOPOGRAPHY, STRUCTURES, COORDINATE POINTS, AND UTILITIES ARE SUBJECT TO VERIFICATION IN THE FIELD BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE DRAWINGS PRIOR TO FABRICATION OR CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ERRORS THAT COULD HAVE BEEN AVOIDED BY FIELD VERIFICATION.
2. REPLACE IN KIND ALL EXISTING STRUCTURES, PAVING, AND LANDSCAPING DISTURBED BY CONSTRUCTION UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL ABOVEGROUND AND UNDERGROUND UTILITIES NOT IDENTIFIED.
4. FENCE LINES SHALL BE RESTORED TO EXISTING CONDITIONS. SITE SECURITY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
5. ALL UNDERGROUND PIPES SHALL BE RESTRAINED.
6. ALL FITTINGS ARE DUCTILE IRON PIPE (DIP) UNLESS OTHERWISE NOTED.
7. MATCH CENTERLINE ELEVATION (CL EL) OF EXISTING PIPE.
8. CONTRACTOR TO MAINTAIN DRIVABLE ACCESS ALONG EXISTING ROADS AT ALL TIMES. LIMITED EXISTING PIPING IS SHOWN. CONTRACTOR SHALL FIELD VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING WORK.
KEY NOTES:
1. REFER TO MECHANICAL DRAWINGS FOR PIPE CONNECTIONS INSIDE THE PROPOSED DEWATERING BUILDING AND FOR INVERT ELEVATIONS.
Tennessee811
Know what's below. Call before you dig.
30% DESIGN SUBMITTAL NOT FOR CONSTRUCTION
DESIGNED FAO
DRAWN FAO
CHECKED
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
300 WEST END AVE., STE 850 NASHVILLE, TENNESSEE 37203 PHONE (615) 386-9090
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
CIVIL
PROPOSED YARD PIPING
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 01C03
SHEET NO.
OF
PROJECT NO. 203747-100000
FILE NAME: 203747_01C03.dwg



GENERAL NOTES:

1. ALL VEHICLE TURNING PATHS SHOWN ARE BASED ON THE LATEST AVAILABLE MANUFACTURER DATA AND/OR AASHTO DESIGN VEHICLE TEMPLATES.
2. SWEPT PATH ANALYSIS WAS PERFORMED USING AUTOTURN.
3. VEHICLE TRACKING PATHS ARE BASED ON THE DESIGN VEHICLE SPECIFIED: SEMI-TRACTOR/TRAILER
4. ALL DRIVE AISLES, RADII, AND CURB RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TURNING REQUIREMENTS OF THE DESIGN VEHICLE.
5. CONTRACTOR SHALL VERIFY ALL SITE DIMENSIONS AND CONSTRAINTS PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES.
6. TURNING MOVEMENTS ILLUSTRATED ARE REPRESENTATIVE OF SINGLE-PASS MANEUVERS. MULTI-POINT TURNS OR REVERSE MANEUVERS ARE NOT CONSIDERED UNLESS EXPLICITLY SHOWN.
7. THE EDGE OF PAVEMENT OR CURB SHALL BE CONSTRUCTED TO ACCOMMODATE THE OUTERMOST WHEEL TRACK OF THE DESIGN VEHICLE WITHOUT ENCROACHMENT.
8. FINAL VEHICLE TRACKING PERFORMANCE IS CONTINGENT ON PRECISE FIELD GRADING AND PAVING PER PLANS. DEVIATIONS MAY IMPACT MANEUVERABILITY AND SHOULD BE REPORTED IMMEDIATELY.

Tennessee811
Know what's below. Call before you dig.

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED FAO
DRAWN RI
CHECKED
DATE JUNE 2025

carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
CIVIL
VEHICLE TRACKING PLAN

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 01C04
SHEET NO. X OF

PROJECT NO. 203747 FILE NAME: 203747_00C06.dwg

Plot Date: 6/26/2025 11:10:13 AM
LAST SAVED BY: Ringle

SPRING HILL CENTRIFUGE DEWATERING

3893 MAHLON MOORE ROAD
SPRING HILL, TN 37174

Sheet Index	
Sheet Number	Sheet Name
01 General	
57AG01	BUILDING CODE SUMMARY
57AG02	LIFE SAFETY PLAN LOWER FLOOR
57AG03	LIFE SAFETY PLAN UPPER FLOOR
05 Architectural	
57A01	LOWER LEVEL FLOOR PLAN
57A02	UPPER LEVEL FLOOR PLAN
57A03	ENLARGED PLANS AND DETAILS
57A04	LOWER LEVEL RCP
57A05	UPPER LEVEL RCP
57A06	ROOF PLAN
57A07	EXTERIOR ELEVATIONS
57A08	OPENING SCHEDULES
57A09	BUILDING SECTIONS
57A10	WALL SECTION AND DETAILS

BUILDING CODE SUMMARY		
APPLICABLE CODES	2021 INTERNATIONAL BUILDING CODE (IBC) 2021 INTERNATIONAL FUEL CODE (IFGC) 2021 INTERNATIONAL MECHANICAL CODE (IMC) 2021 INTERNATIONAL PLUMBING CODE (IPC) 2021 INTERNATIONAL FIRE CODE (IFC) 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2017 NATIONAL ELECTRICAL CODE (NEC)	
PROJECT SCOPE	CONSTRUCTION OF A DOUBLE STORY CENTRIFUGE DEWATERING SYSTEM BUILDING	
OCCUPANCY TYPE	GROUP U UTILITY AND MISCELLANEOUS (IBC 312.1)	
CONSTRUCTION TYPE	TYPE IIB (IBC 601)	
OCCUPANCY SEPARATION	NO SEPARATION REQUIRED	
BUILDING HEIGHT (IBC TABLES 504.3 AND 504.4)		
	ALLOWABLE	ACTUAL
NO. OF STORIES	2 STORIES	2 STORIES
HEIGHT	55 FEET	55 FEET
AREA PER FLOOR LEVEL (NET)		
TOTAL ALLOWABLE AREA PER FLOOR	6,500 SF (BASED ON U)	LEVEL 1= 6,968.67 SF LEVEL 2= 5,871.3 SF
FIRE SUPPRESSION SYSTEM	PORTABLE FIRE EXTINGUISHERS, RATED CLASS A, B, C, 10-POUND CAPACITY	
NUMBER OF OCCUPANTS		
OCCUPANT LOAD FACTOR	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS - 300 GROSS	
OCCUPANCY		
ACTUAL NUMBER OF OCC.	ZERO PERMANENT OCC., ONLY PRESENT FOR MAINTENANCE AND OPERATION	
TRAVEL DISTANCE		
	EXIT ACCESS	COMMON PATH
GROUP U	200 FEET	75 FEET
EXITS		
ALL SPACES/ OCCUPANCIES LISTED ABOVE REQUIRE 1 EXIT		

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED JEB
DRAWN JEB
CHECKED DSR
DATE JUNE 2025

carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
BUILDING CODE SUMMARY

VERIFY SCALES
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0 1"
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JOB NO. 203747
DRAWING NO. 57AG01
SHEET NO. OF XXX

PLOT DATE: 6/27/2025 2:11:38 PM
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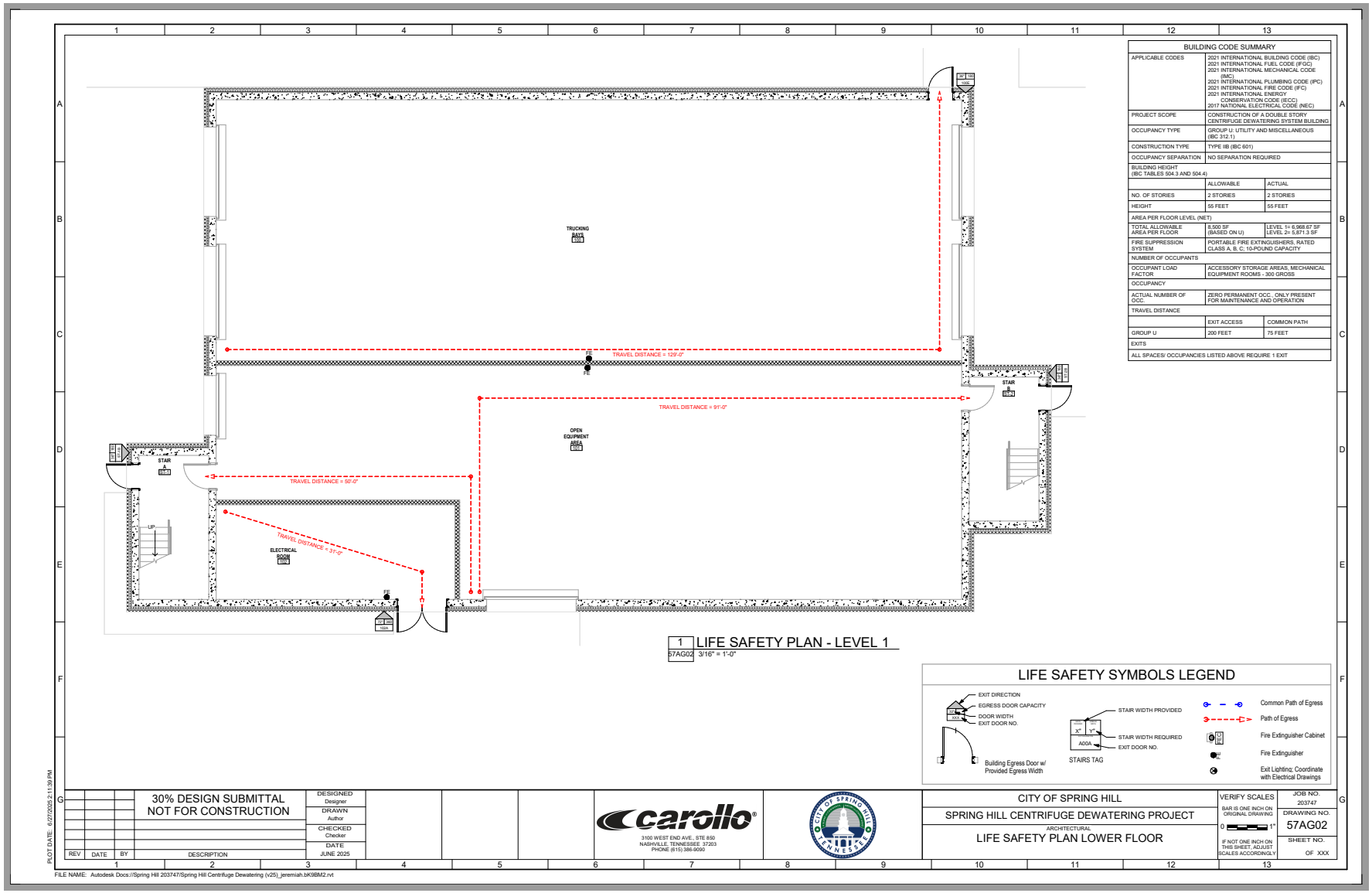
TRUCKING BAYS 100
OPEN EQUIPMENT AREA 101
ELECTRICAL ROOM 102
STAIR A 103
STAIR B 104
TRAVEL DISTANCE = 129'-0"
TRAVEL DISTANCE = 91'-0"
TRAVEL DISTANCE = 50'-0"
TRAVEL DISTANCE = 31'-0"
FE
UP
DN
1 LIFE SAFETY PLAN - LEVEL 1
57AG02 3/16" = 1'-0"
BUILDING CODE SUMMARY
APPLICABLE CODES
2021 INTERNATIONAL BUILDING CODE (IBC)
2021 INTERNATIONAL FUEL CODE (IFGC)
2021 INTERNATIONAL MECHANICAL CODE (IMC)
2021 INTERNATIONAL PLUMBING CODE (IPC)
2021 INTERNATIONAL FIRE CODE (IFC)
2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2017 NATIONAL ELECTRICAL CODE (NEC)
PROJECT SCOPE
CONSTRUCTION OF A DOUBLE STORY CENTRIFUGE DEWATERING SYSTEM BUILDING
OCCUPANCY TYPE
GROUP U: UTILITY AND MISCELLANEOUS (IBC 312.1)
CONSTRUCTION TYPE
TYPE IIB (IBC 601)
OCCUPANCY SEPARATION
NO SEPARATION REQUIRED
BUILDING HEIGHT (IBC TABLES 504.3 AND 504.4)
ALLOWABLE
ACTUAL
NO. OF STORIES
2 STORIES
2 STORIES
HEIGHT
55 FEET
55 FEET
AREA PER FLOOR LEVEL (NET)
TOTAL ALLOWABLE AREA PER FLOOR
8,500 SF (BASED ON U)
LEVEL 1= 6,968.67 SF
LEVEL 2= 5,871.3 SF
FIRE SUPPRESSION SYSTEM
PORTABLE FIRE EXTINGUISHERS, RATED CLASS A, B, C; 10-POUND CAPACITY
NUMBER OF OCCUPANTS
OCCUPANT LOAD FACTOR
ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS - 300 GROSS
OCCUPANCY
ACTUAL NUMBER OF OCC.
ZERO PERMANENT OCC., ONLY PRESENT FOR MAINTENANCE AND OPERATION
TRAVEL DISTANCE
EXIT ACCESS
COMMON PATH
GROUP U
200 FEET
75 FEET
EXITS
ALL SPACES/ OCCUPANCIES LISTED ABOVE REQUIRE 1 EXIT
LIFE SAFETY SYMBOLS LEGEND
EXIT DIRECTION
EGRESS DOOR CAPACITY
DOOR WIDTH
EXIT DOOR NO.
Building Egress Door w/ Provided Egress Width
STAIR WIDTH PROVIDED
STAIR WIDTH REQUIRED
EXIT DOOR NO.
STAIRS TAG
Common Path of Egress
Path of Egress
Fire Extinguisher Cabinet
Fire Extinguisher
Exit Lighting; Coordinate with Electrical Drawings
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
LIFE SAFETY PLAN LOWER FLOOR
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57AG02
SHEET NO. OF XXX
PLOT DATE: 6/27/2025 2:11:39 PM
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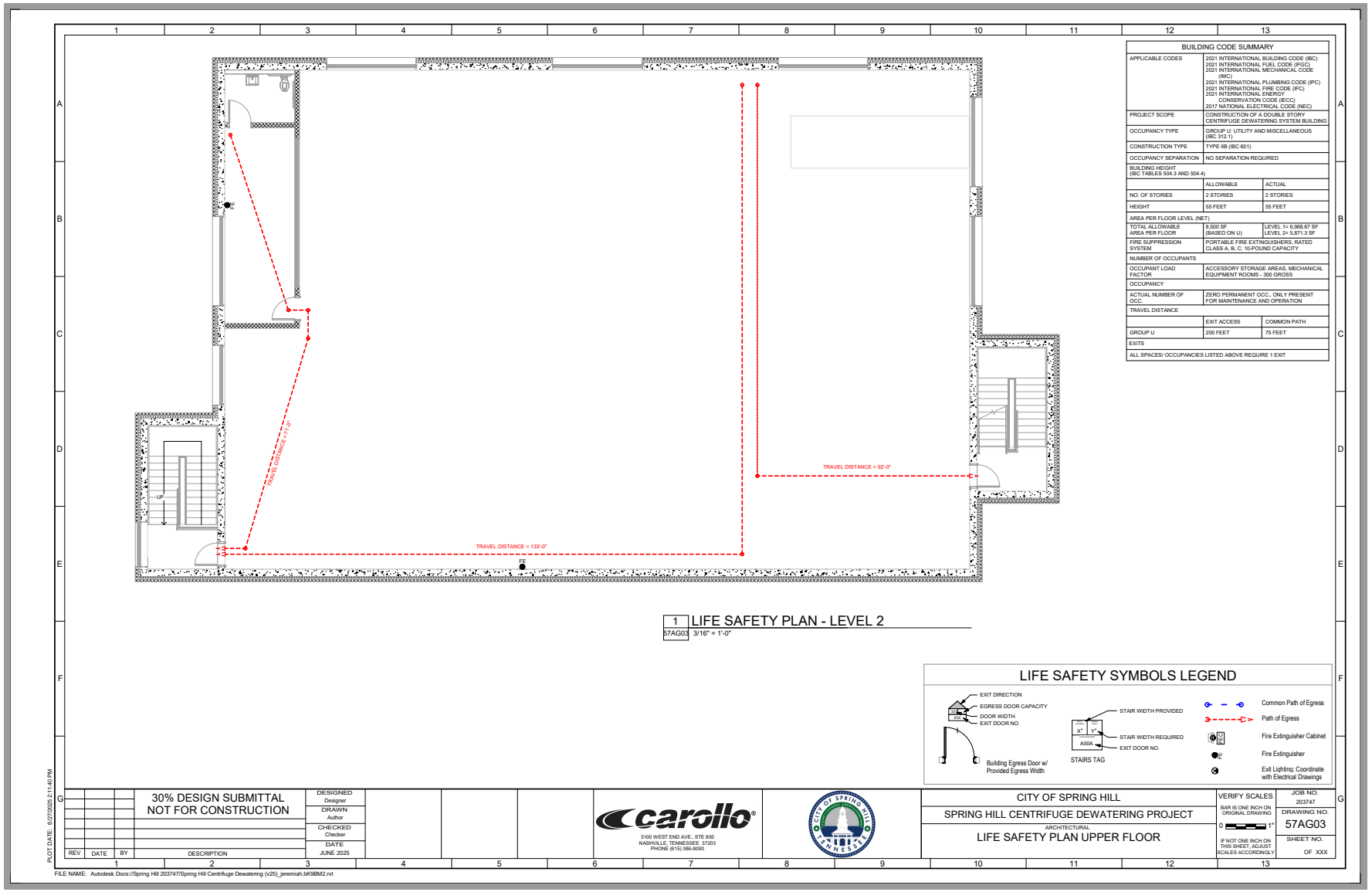

1 LIFE SAFETY PLAN - LEVEL 2
57AG03 3/16" = 1'-0"

BUILDING CODE SUMMARY		
APPLICABLE CODES	2021 INTERNATIONAL BUILDING CODE (IBC) 2021 INTERNATIONAL FUEL CODE (IFGC) 2021 INTERNATIONAL MECHANICAL CODE (IMC) 2021 INTERNATIONAL PLUMBING CODE (IPC) 2021 INTERNATIONAL FIRE CODE (IFC) 2021 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2017 NATIONAL ELECTRICAL CODE (NEC)	
PROJECT SCOPE	CONSTRUCTION OF A DOUBLE STORY CENTRFUGE DEWATERING SYSTEM BUILDING	
OCCUPANCY TYPE	GROUP U: UTILITY AND MISCELLANEOUS (IBC 312.1)	
CONSTRUCTION TYPE	TYPE IIB (IBC 601)	
OCCUPANCY SEPARATION	NO SEPARATION REQUIRED	
BUILDING HEIGHT (IBC TABLES 504.3 AND 504.4)		
	ALLOWABLE	ACTUAL
NO. OF STORIES	2 STORIES	2 STORIES
HEIGHT	55 FEET	55 FEET
AREA PER FLOOR LEVEL (NET)		
TOTAL ALLOWABLE AREA PER FLOOR	8,500 SF (BASED ON U)	LEVEL 1= 6,968.67 SF LEVEL 2= 5,871.3 SF
FIRE SUPPRESSION SYSTEM	PORTABLE FIRE EXTINGUISHERS, RATED CLASS A, B, C; 10-POUND CAPACITY	
NUMBER OF OCCUPANTS		
OCCUPANT LOAD FACTOR	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOMS - 300 GROSS	
OCCUPANCY		
ACTUAL NUMBER OF OCC.	ZERO PERMANENT OCC., ONLY PRESENT FOR MAINTENANCE AND OPERATION	
TRAVEL DISTANCE		
	EXIT ACCESS	COMMON PATH
GROUP U	200 FEET	75 FEET
EXITS		
ALL SPACES/ OCCUPANCIES LISTED ABOVE REQUIRE 1 EXIT		

LIFE SAFETY SYMBOLS LEGEND

EXIT DIRECTION
EGRESS DOOR CAPACITY
DOOR WIDTH
EXIT DOOR NO.
Building Egress Door w/ Provided Egress Width
STAIR WIDTH PROVIDED
STAIR WIDTH REQUIRED
EXIT DOOR NO.
STAIRS TAG
Common Path of Egress
Path of Egress
Fire Extinguisher Cabinet
Fire Extinguisher
Exit Lighting; Coordinate with Electrical Drawings

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025

carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
LIFE SAFETY PLAN UPPER FLOOR

VERIFY SCALES
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0 1"
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JOB NO. 203747
DRAWING NO. 57AG03
SHEET NO. OF XXX

PLOT DATE: 6/27/2025 2:11:40 PM
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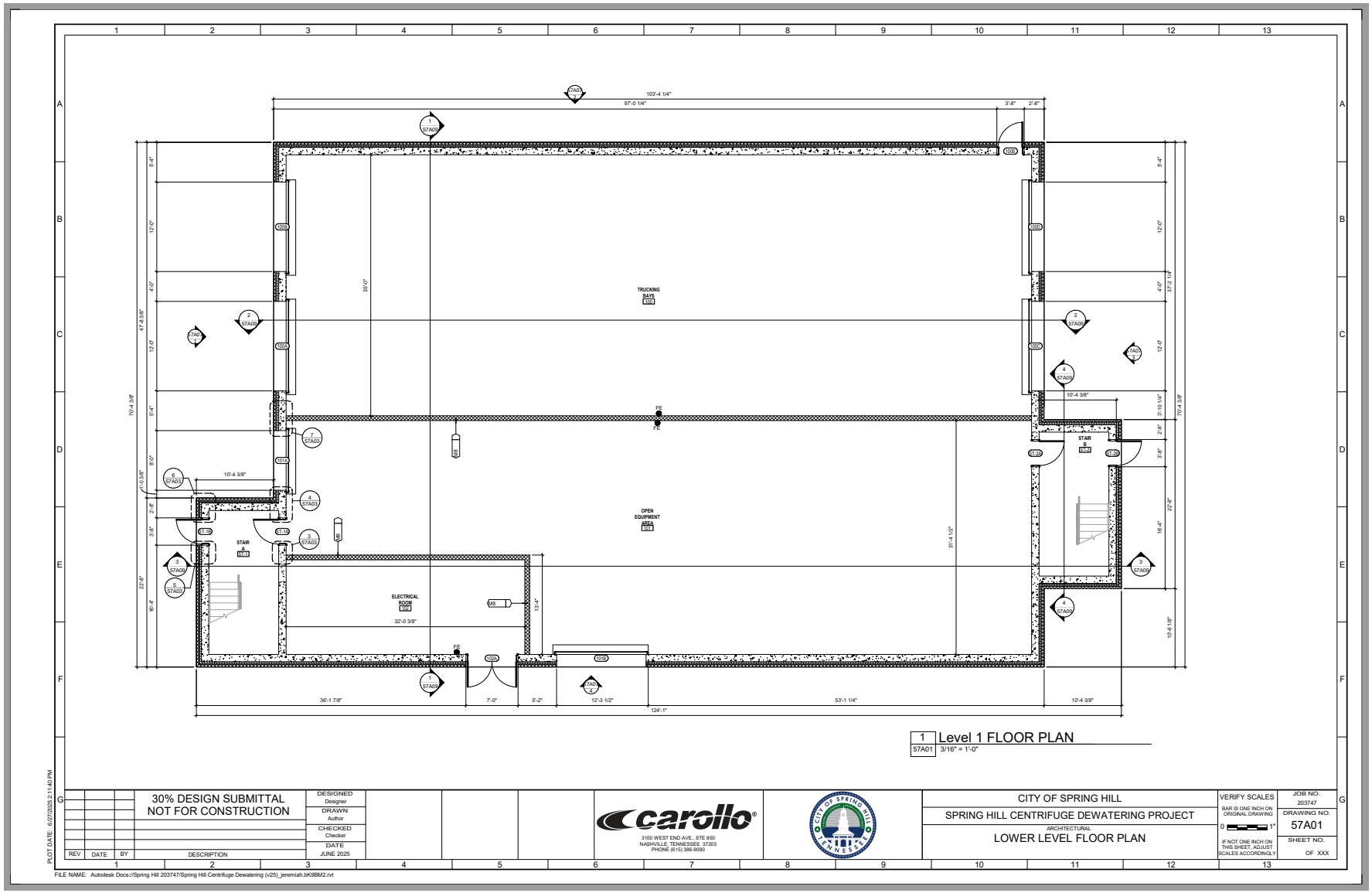
TRUCKING BAYS
100
OPEN EQUIPMENT AREA
101
ELECTRICAL ROOM
104
STAIR A
STAIR B
103
103A
103B
103C
103D
103E
103F
103G
103H
103I
103J
103K
103L
103M
103N
103P
103Q
103R
103S
103T
103U
103V
103W
103X
103Y
103Z
MB
FE
103'-4 1/4"
97'-0 1/4"
3'-8"
2'-8"
35'-0"
32'-0 3/8"
31'-4 1/2"
10'-4 3/8"
36'-1 7/8"
7'-0"
5'-2"
12'-3 1/2"
124'-1"
53'-1 1/4"
70'-4 3/8"
47'-8 3/8"
22'-8"
1 Level 1 FLOOR PLAN
57A01 3/16" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
LOWER LEVEL FLOOR PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57A01
SHEET NO. OF XXX
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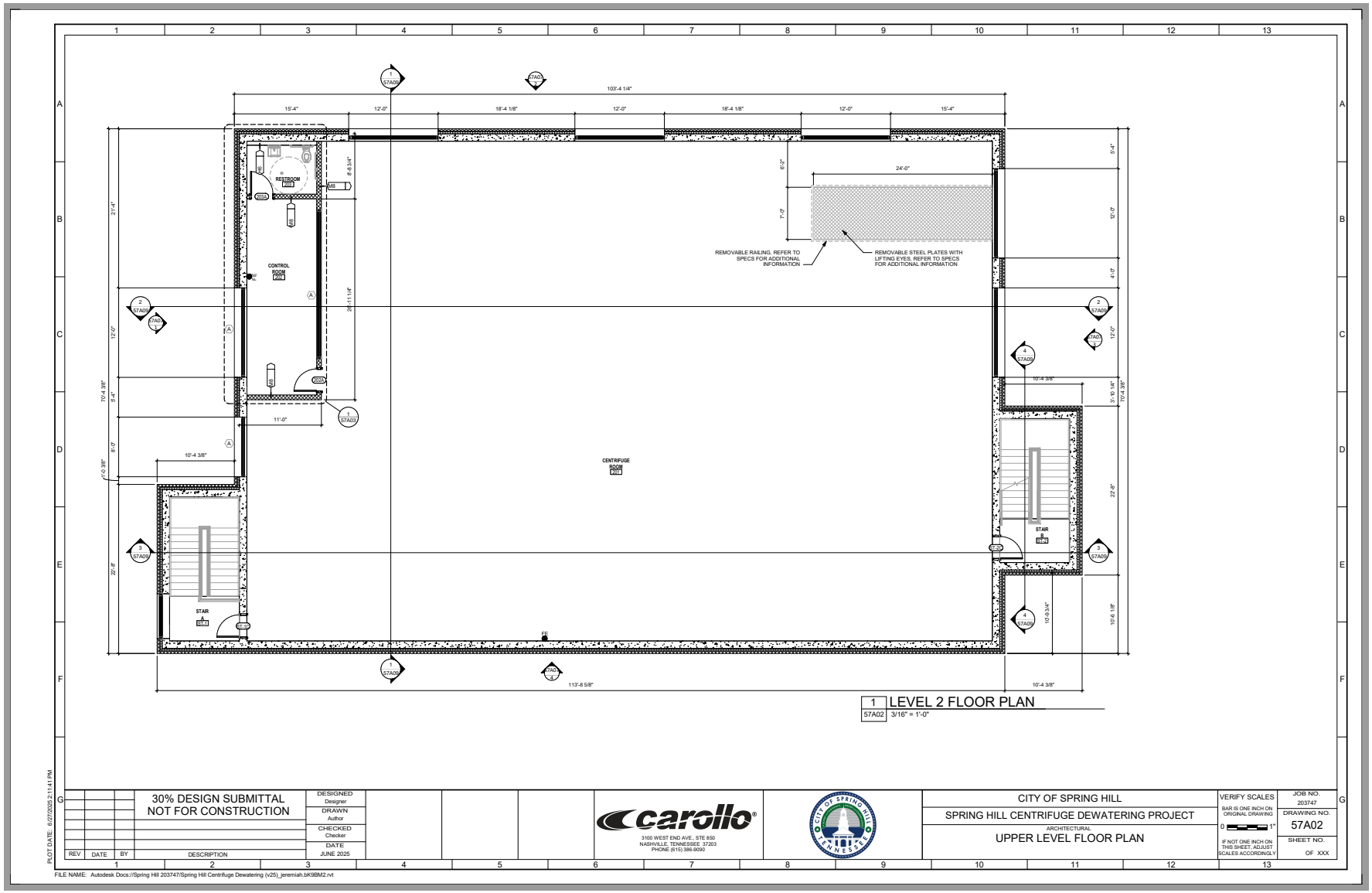
103'-4 1/4"
15'-4"
12'-0"
18'-4 1/8"
12'-0"
18'-4 1/8"
12'-0"
15'-4"
RESTROOM
CONTROL ROOM
CENTRIFUGE ROOM
STAIR
STAIR
REMOVABLE RAILING, REFER TO SPECS FOR ADDITIONAL INFORMATION
REMOVABLE STEEL PLATES WITH LIFTING EYES. REFER TO SPECS FOR ADDITIONAL INFORMATION
24'-0"
6'-2"
7'-0"
113'-8 5/8"
10'-4 3/8"
11'-0"
10'-4 3/8"
1 LEVEL 2 FLOOR PLAN
57A02 3/16" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
UPPER LEVEL FLOOR PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57A02
SHEET NO. OF XXX
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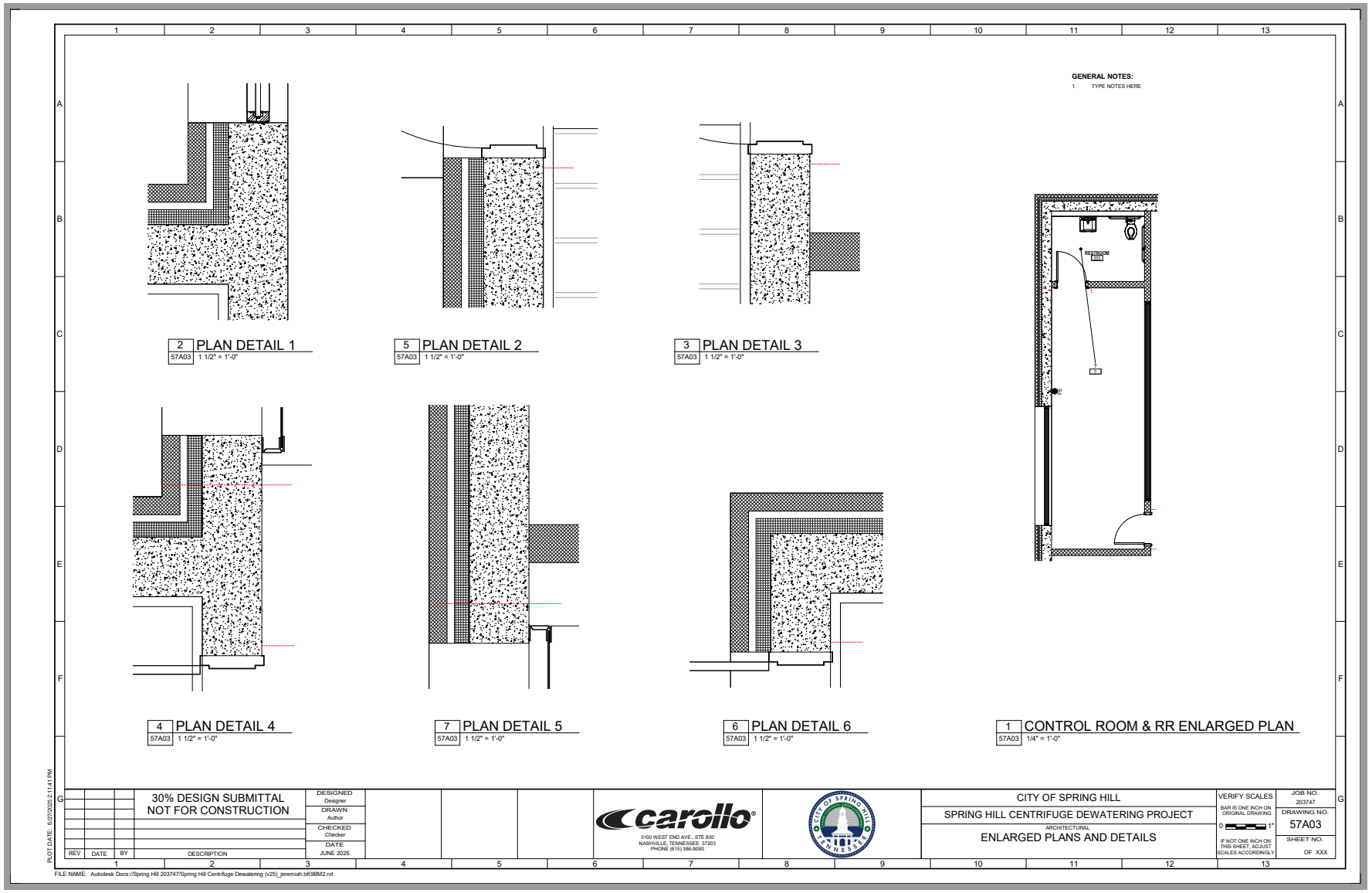
GENERAL NOTES:
1. TYPE NOTES HERE
2 PLAN DETAIL 1
57A03 1 1/2" = 1'-0"
5 PLAN DETAIL 2
57A03 1 1/2" = 1'-0"
3 PLAN DETAIL 3
57A03 1 1/2" = 1'-0"
4 PLAN DETAIL 4
57A03 1 1/2" = 1'-0"
7 PLAN DETAIL 5
57A03 1 1/2" = 1'-0"
6 PLAN DETAIL 6
57A03 1 1/2" = 1'-0"
1 CONTROL ROOM & RR ENLARGED PLAN
57A03 1/4" = 1'-0"
RESTROOM
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
ENLARGED PLANS AND DETAILS
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57A03
SHEET NO. OF XXX
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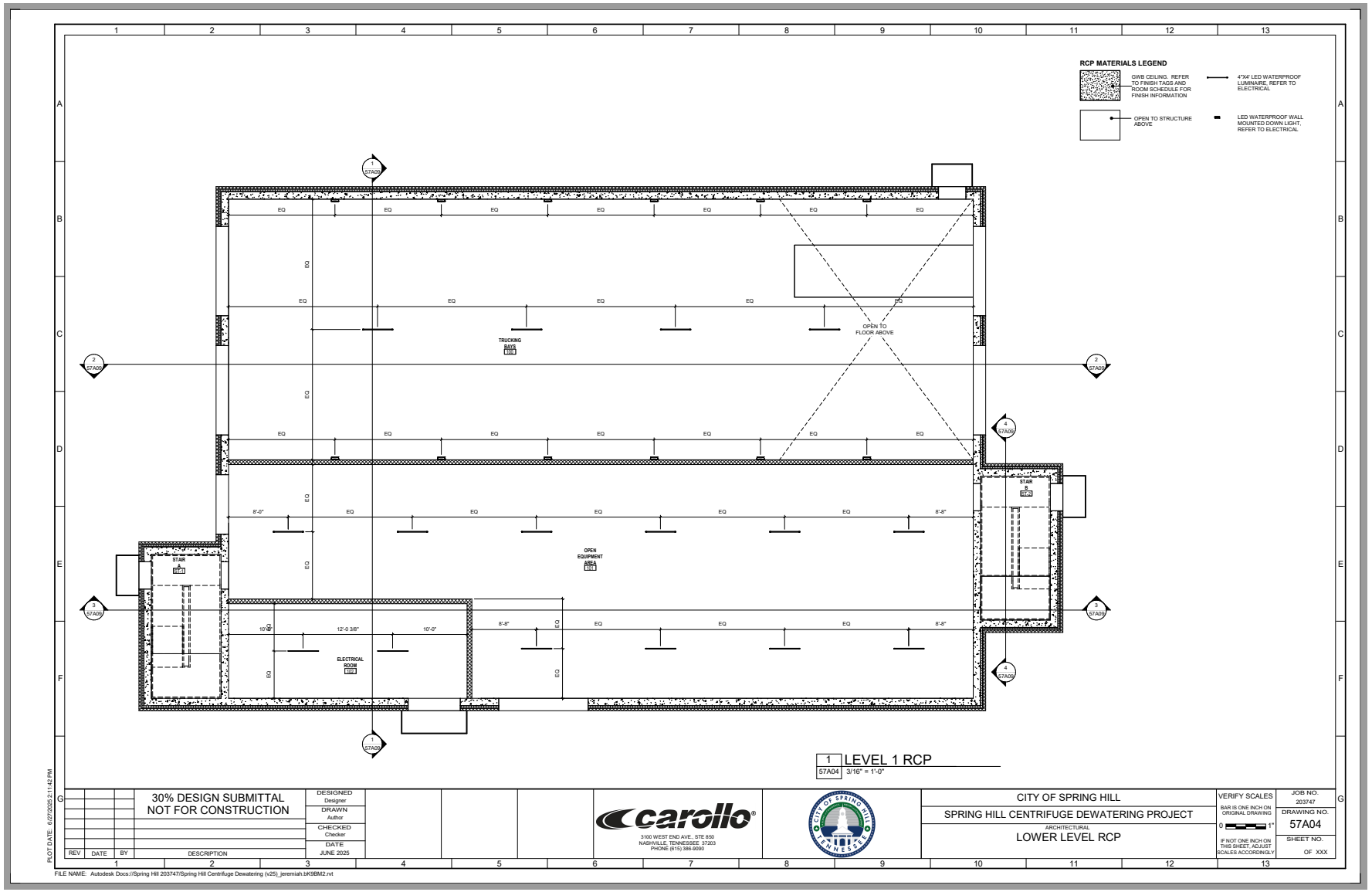
RCP MATERIALS LEGEND
GWB CEILING. REFER TO FINISH TAGS AND ROOM SCHEDULE FOR FINISH INFORMATION
4"X4' LED WATERPROOF LUMINAIRE, REFER TO ELECTRICAL
OPEN TO STRUCTURE ABOVE
LED WATERPROOF WALL MOUNTED DOWN LIGHT, REFER TO ELECTRICAL
TRUCKING BAYS 100
OPEN TO FLOOR ABOVE
OPEN EQUIPMENT AREA 101
ELECTRICAL ROOM 102
STAIR B B1.01
STAIR B B1.01
12'-0 3/8"
10'-0"
8'-0"
8'-8"
EQ
1 57A09
2 57A09
3 57A09
4 57A09
1 LEVEL 1 RCP
57A04 3/16" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
LOWER LEVEL RCP
VERIFY SCALES
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DRAWING NO. 57A04
SHEET NO. OF XXX
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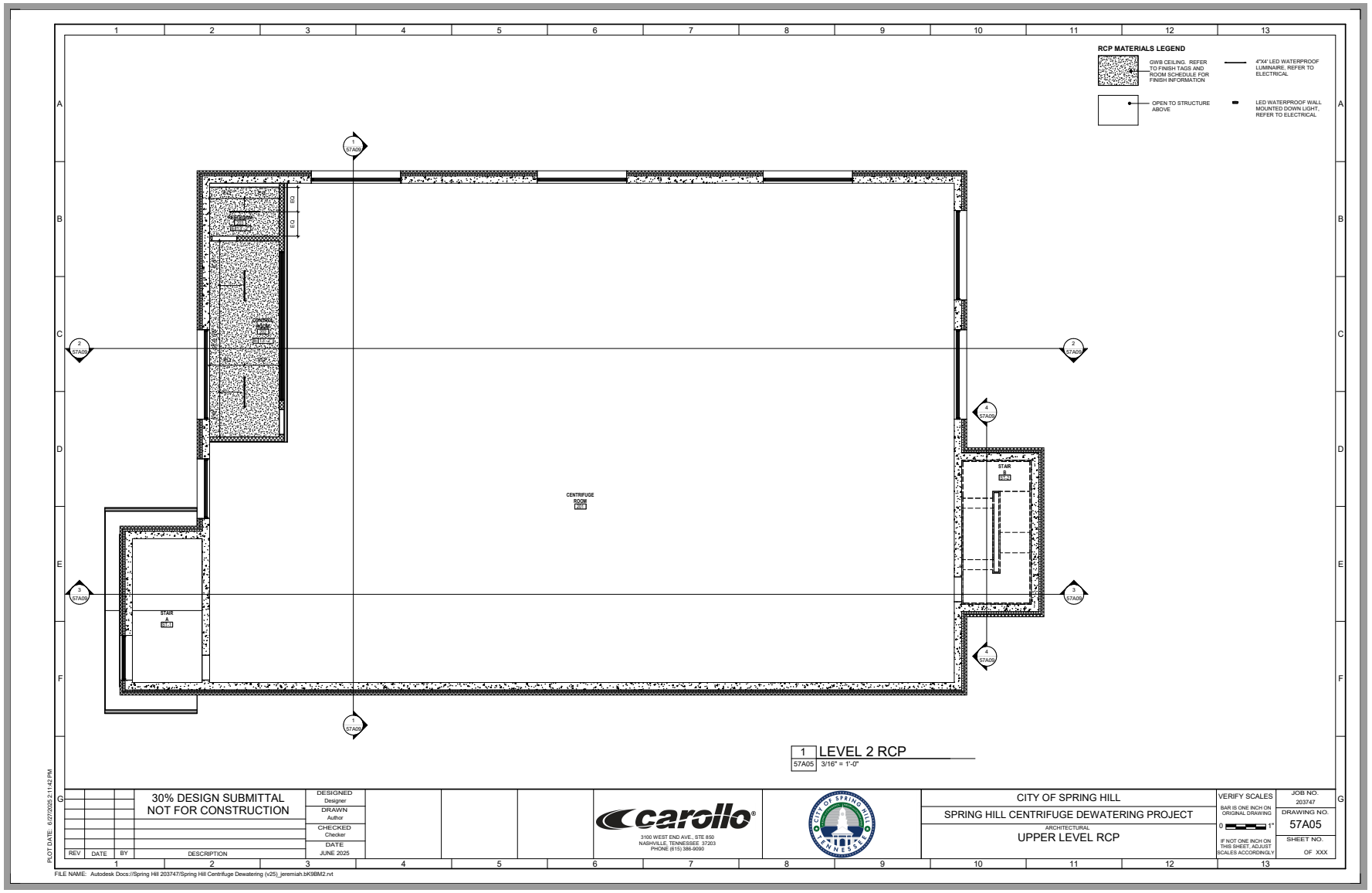
RCP MATERIALS LEGEND
GWB CEILING. REFER TO FINISH TAGS AND ROOM SCHEDULE FOR FINISH INFORMATION
4"X4' LED WATERPROOF LUMINAIRE. REFER TO ELECTRICAL
OPEN TO STRUCTURE ABOVE
LED WATERPROOF WALL MOUNTED DOWN LIGHT. REFER TO ELECTRICAL
CENTRIFUGE ROOM
STAIR
1 LEVEL 2 RCP
57A05 3/16" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
UPPER LEVEL RCP
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57A05
SHEET NO. OF XXX
PLOT DATE: 6/27/2025 2:11:42 PM
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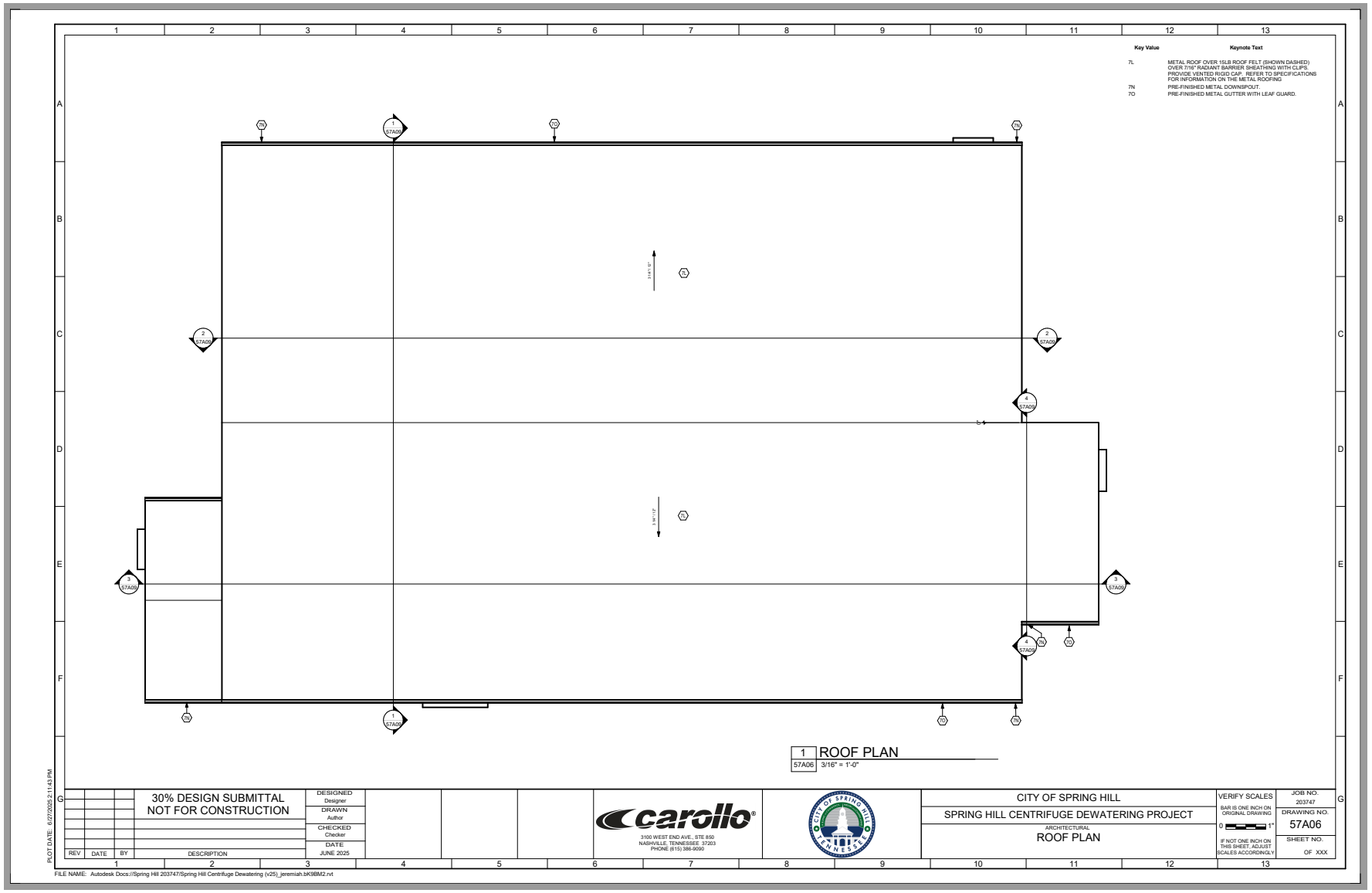
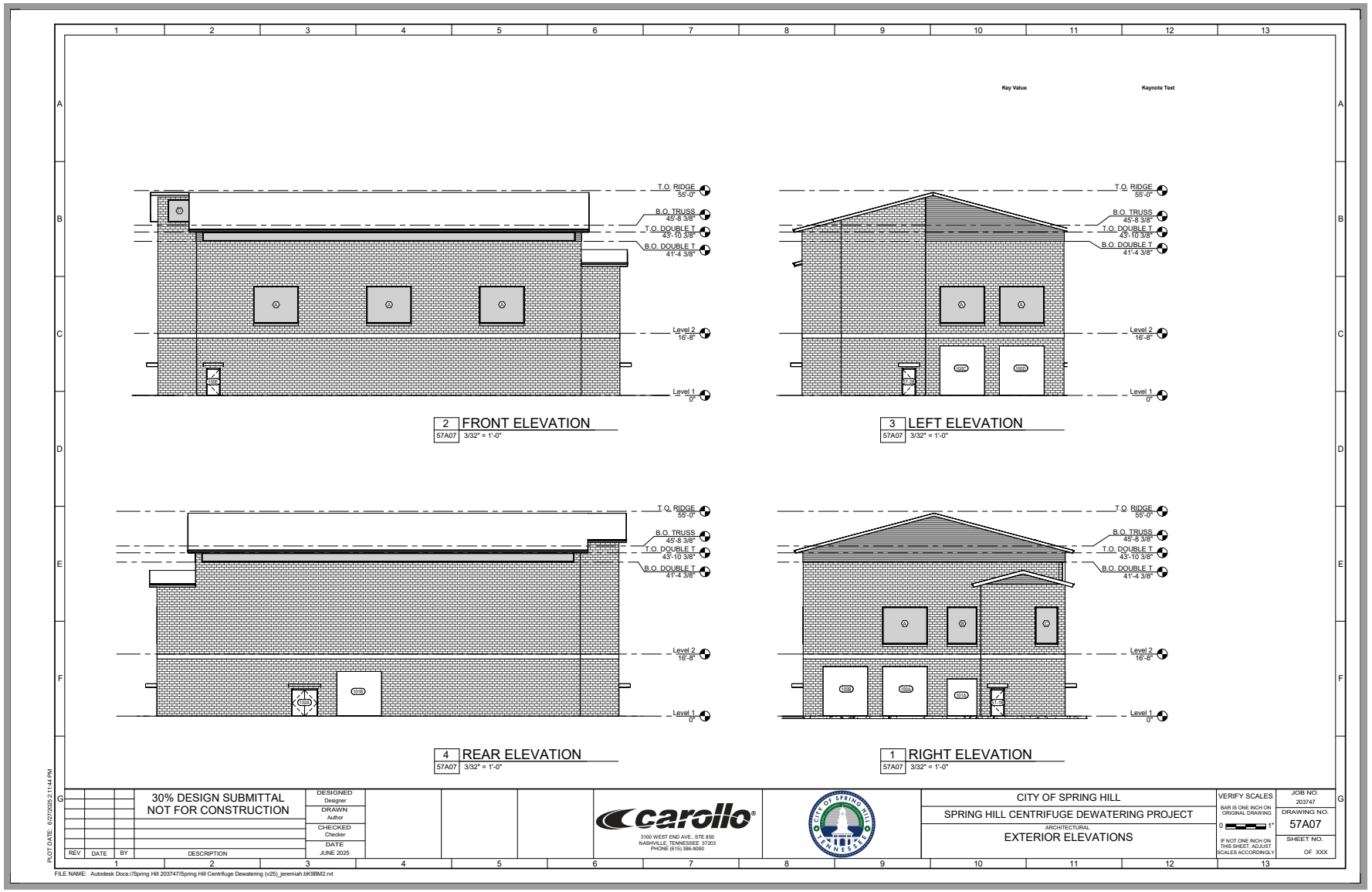

Key Value
Keynote Text
7L METAL ROOF OVER 15LB ROOF FELT (SHOWN DASHED) OVER 7/16" RADIANT BARRIER SHEATHING WITH CLIPS. PROVIDE VENTED RIGID CAP. REFER TO SPECIFICATIONS FOR INFORMATION ON THE METAL ROOFING
7N PRE-FINISHED METAL DOWNSPOUT.
7O PRE-FINISHED METAL GUTTER WITH LEAF GUARD.
1 ROOF PLAN
57A06 3/16" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
ROOF PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57A06
SHEET NO. OF XXX
PLOT DATE: 6/27/2025 2:11:43 PM
FILE NAME: Autodesk Docs://Spring Hill 203747/Spring Hill Centrifuge Dewatering (v25)_jeremiah.bK9BM2.rvt

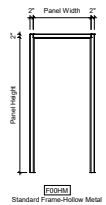

Key Value
Keynote Text
T.O. RIDGE 55'-0"
B.O. TRUSS 45'-8 3/8"
T.O. DOUBLE T 43'-10 3/8"
B.O. DOUBLE T 41'-4 3/8"
Level 2 16'-8"
Level 1 0"
2 57A07 FRONT ELEVATION 3/32" = 1'-0"
3 57A07 LEFT ELEVATION 3/32" = 1'-0"
4 57A07 REAR ELEVATION 3/32" = 1'-0"
1 57A07 RIGHT ELEVATION 3/32" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9000
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
EXTERIOR ELEVATIONS
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57A07
SHEET NO. OF XXX
PLOT DATE: 6/27/2025 2:11:44 PM
FILE NAME: Autodesk Docs://Spring Hill 203747/Spring Hill Centrifuge Dewatering (v25)_jeremiah.bK9BM2.rvt

Storefront Glazing Schedule	
Type Mark	Description
A	1" Insulated Low-E Glazing
S	Spandrel Panel
T	1" Tempered, Insulated, Low-E Glazing

NOTE:
PROVIDE TEMPERED GLASS WHERE REQUIRED BY CODE.

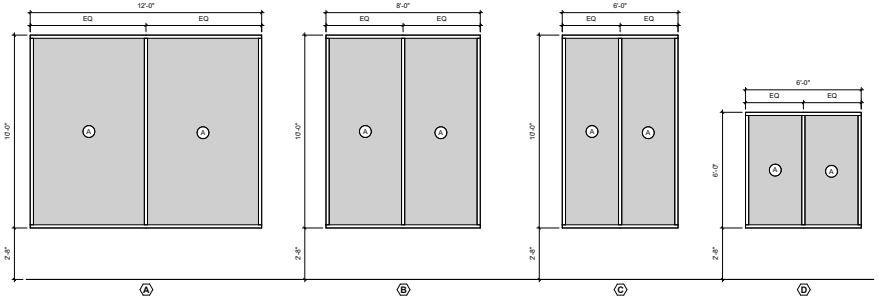
Door and Opening Schedule - Public

Mark	Panel 1 Type	Panel 1 Width	Panel 2 Type	Panel 2 Width	Panel Height	Frame Type	Door Fire Rating Minutes	Comments
100A	P60STL	12'-0"			13'-4"	F60STL		
100B	P60STL	12'-0"			13'-4"	F60STL		
100C	P60STL	12'-0"			13'-4"	F60STL		
100D	P60STL	12'-0"			13'-4"	F60STL		
100E	P00HM	3'-4"			7'-0"	F00HM		
101A	P60STL	8'-0"			10'-0"	F60STL		
101B	P60STL	12'-0"			12'-0"	F60STL		
102A	P00HM	3'-4"	P00HM	3'-4"	7'-0"	F00HM		
202A	P00HM	3'-0"			7'-0"	F00HM		
203A	P00HM	3'-0"			7'-0"	F00HM		
ST-1A	P00HM	3'-4"			7'-0"	F00HM		
ST-1B	P00HM	3'-4"			7'-0"	F00HM		
ST-1C	P00HM	3'-0"			7'-0"	F00HM		
ST-2A	P00HM	3'-4"			7'-0"	F00HM		
ST-2B	P00HM	3'-4"			7'-0"	F00HM		
ST-2C	P00HM	3'-0"			7'-0"	F00HM		



1 DOOR FRAME TYPE
57A08 3/8" = 1'-0"

2 DOOR PANEL TYPE
57A08 3/8" = 1'-0"



3 STOREFRONT TYPES
57A08 3/8" = 1'-0"

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025

REV	DATE	BY	DESCRIPTION

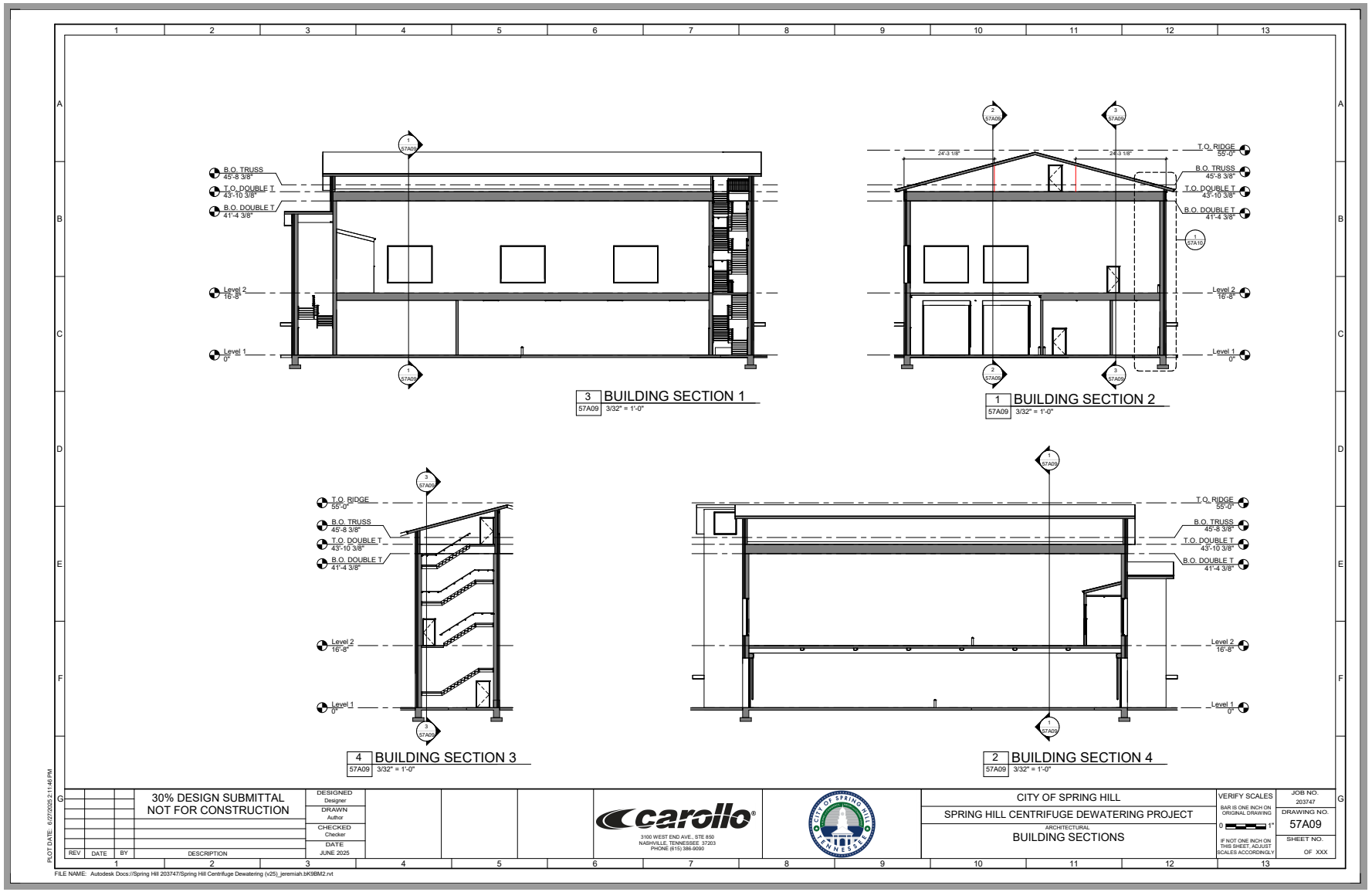
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

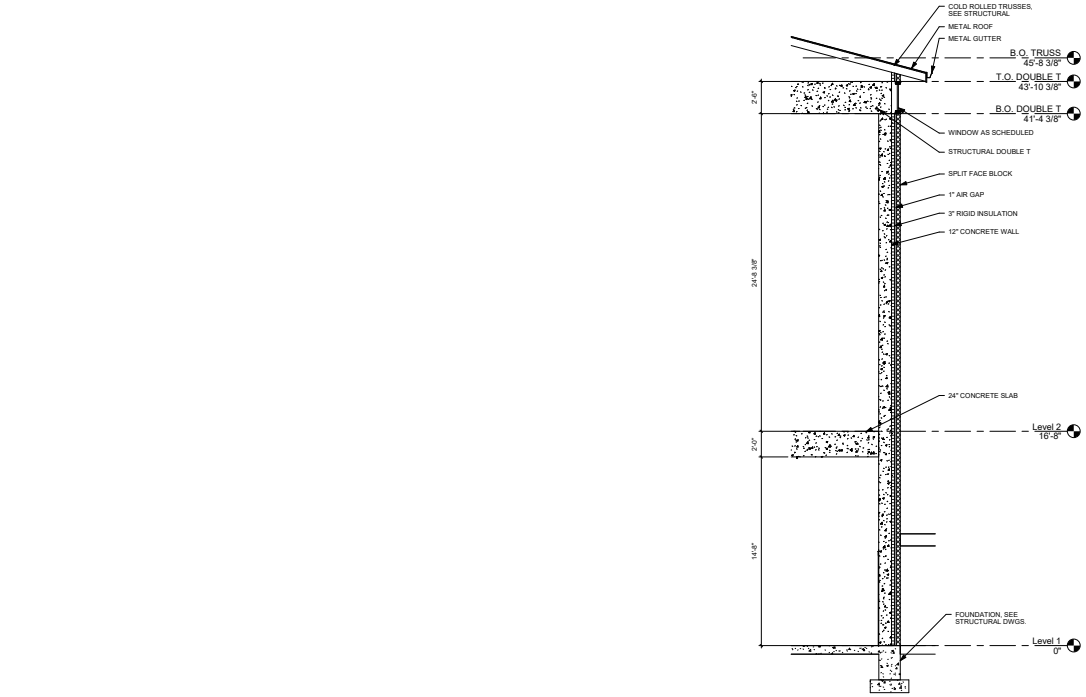
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
OPENING SCHEDULES

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 57A08
SHEET NO. OF XXX

PLOT DATE: 6/27/2025 2:11:44 PM
FILE NAME: Autodesk Docs://Spring Hill 203747/Spring Hill Centrifuge Dewatering (v25)_jeremiah.bK9BM2.rvt


B.O. TRUSS 45'-8 3/8"
T.O. DOUBLE T 43'-10 3/8"
B.O. DOUBLE T 41'-4 3/8"
Level 2 16'-8"
Level 1 0"
3 57A09 BUILDING SECTION 1
57A09 3/32" = 1'-0"
24'-3 1/8"
T.O. RIDGE 55'-0"
1 57A10 BUILDING SECTION 2
57A09 3/32" = 1'-0"
4 57A09 BUILDING SECTION 3
57A09 3/32" = 1'-0"
2 57A09 BUILDING SECTION 4
57A09 3/32" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
BUILDING SECTIONS
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57A09
SHEET NO. OF XXX
PLOT DATE: 6/27/2025 2:11:48 PM
FILE NAME: Autodesk Docs://Spring Hill 203747/Spring Hill Centrifuge Dewatering (v25)_jeremiah.bK9BM2.rvt



1 / 57A10 WALL SECTION 1
1/4" = 1'-0"

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED Designer
DRAWN Author
CHECKED Checker
DATE JUNE 2025

carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ARCHITECTURAL
WALL SECTION AND DETAILS

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 57A10
SHEET NO. OF XXX

PLOT DATE: 6/27/2025 2:11:48 PM
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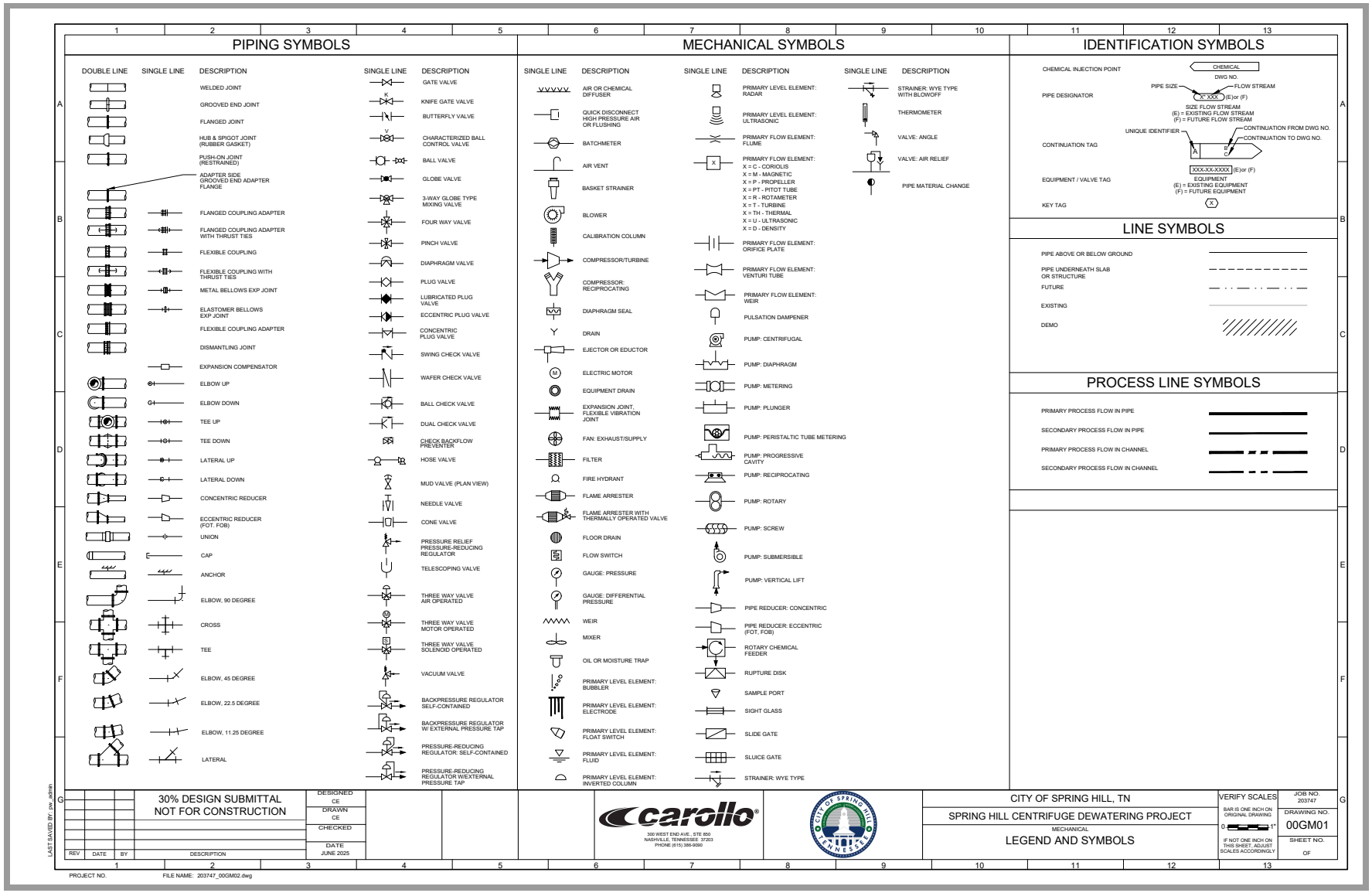
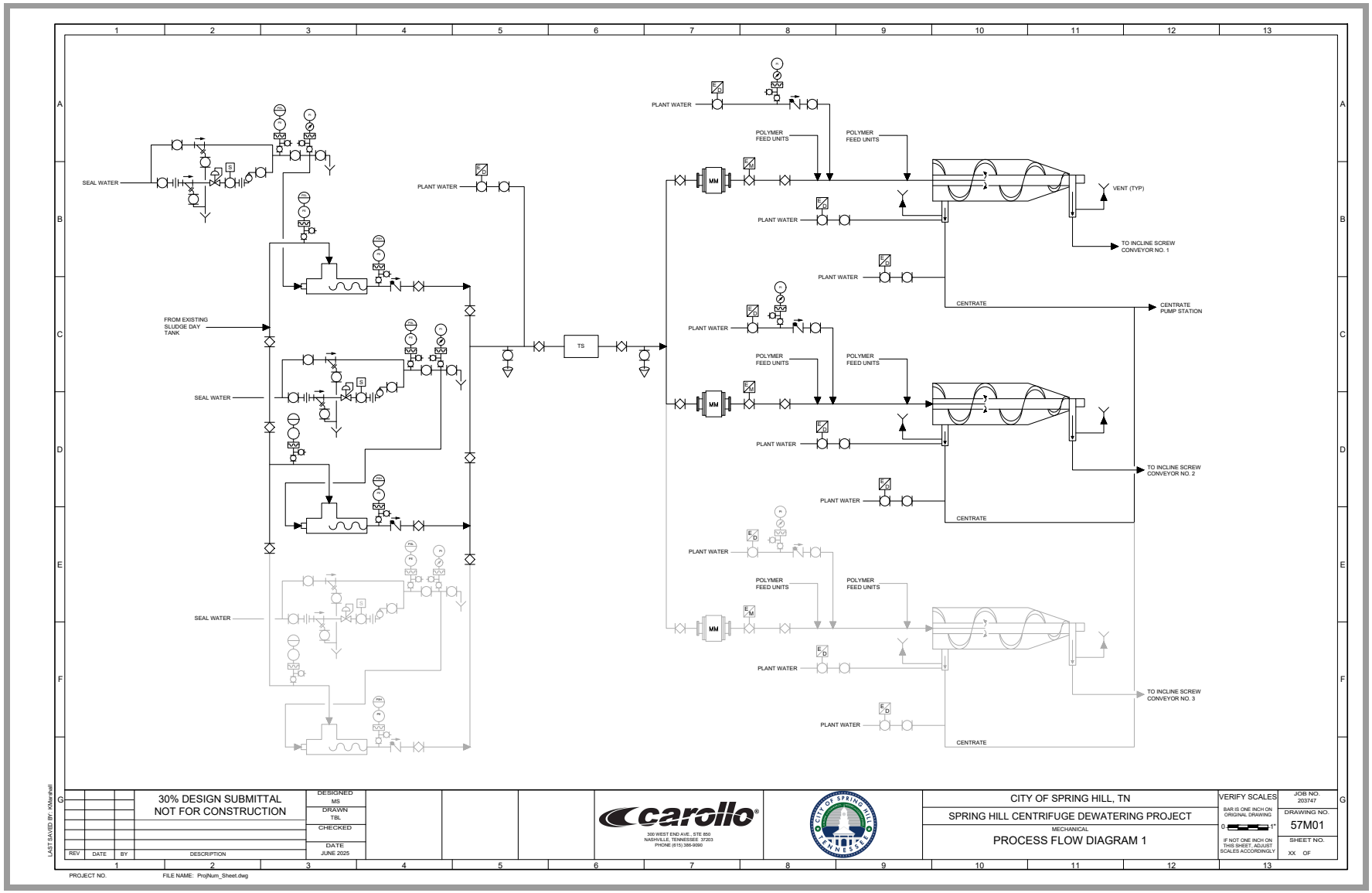
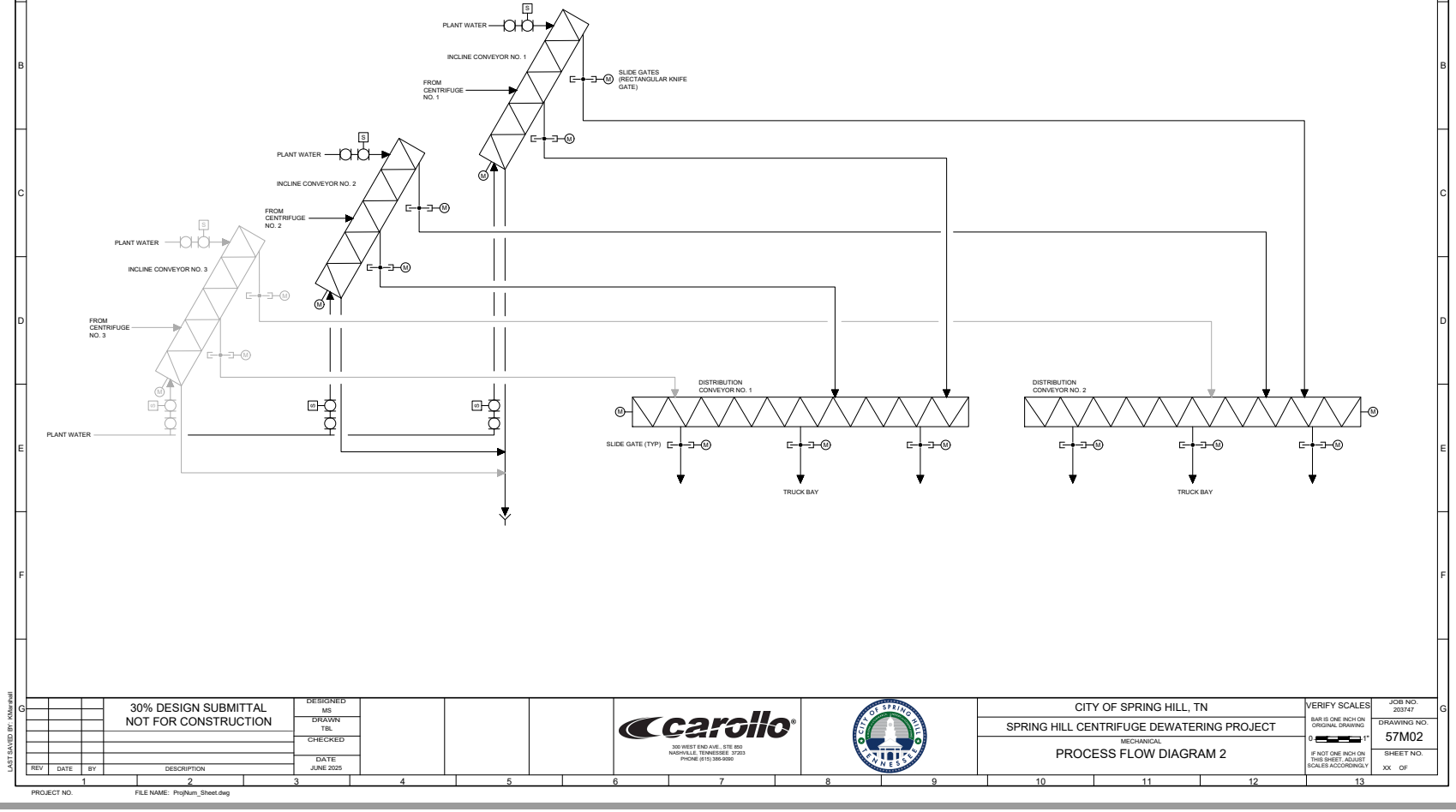
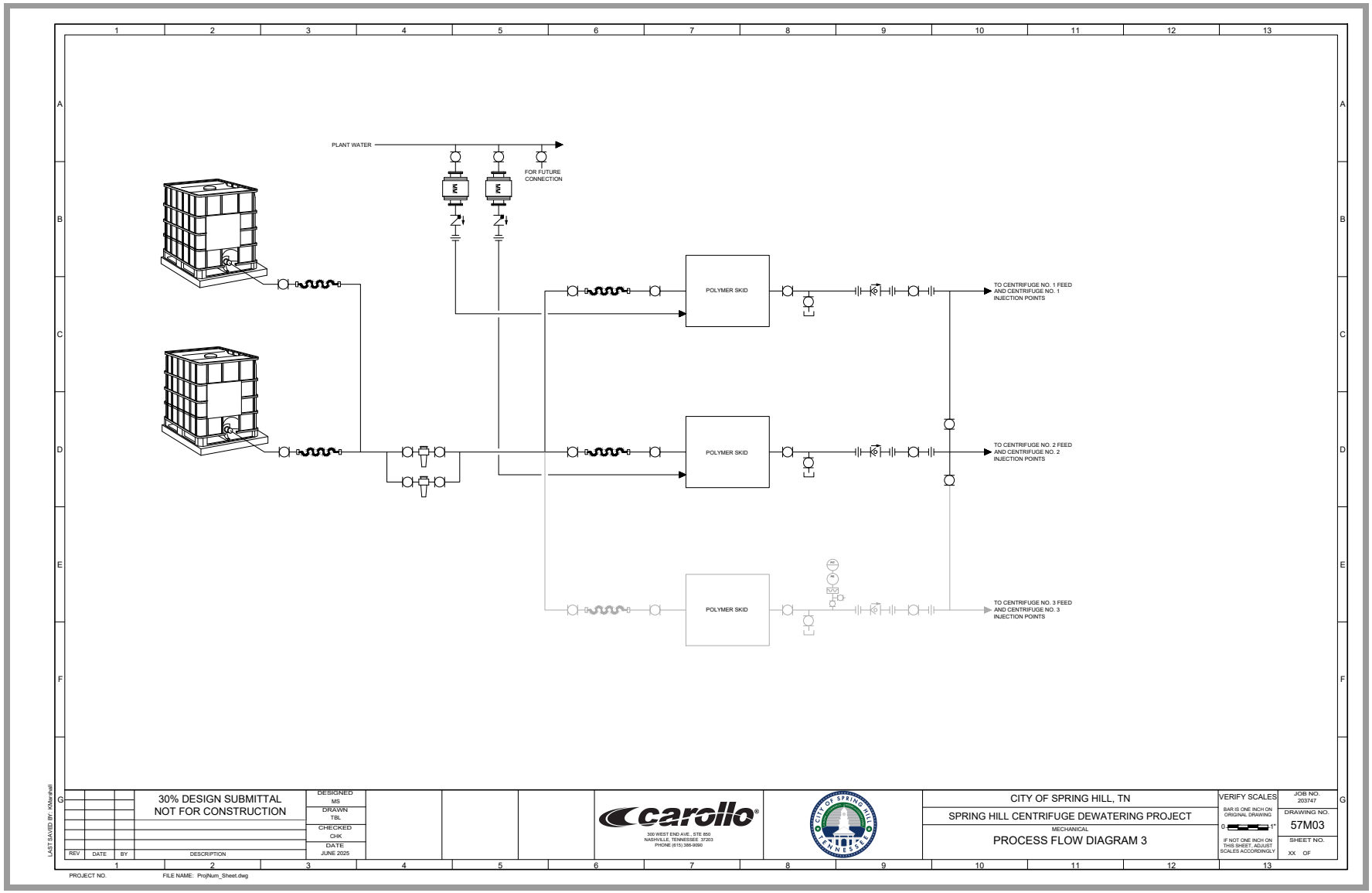
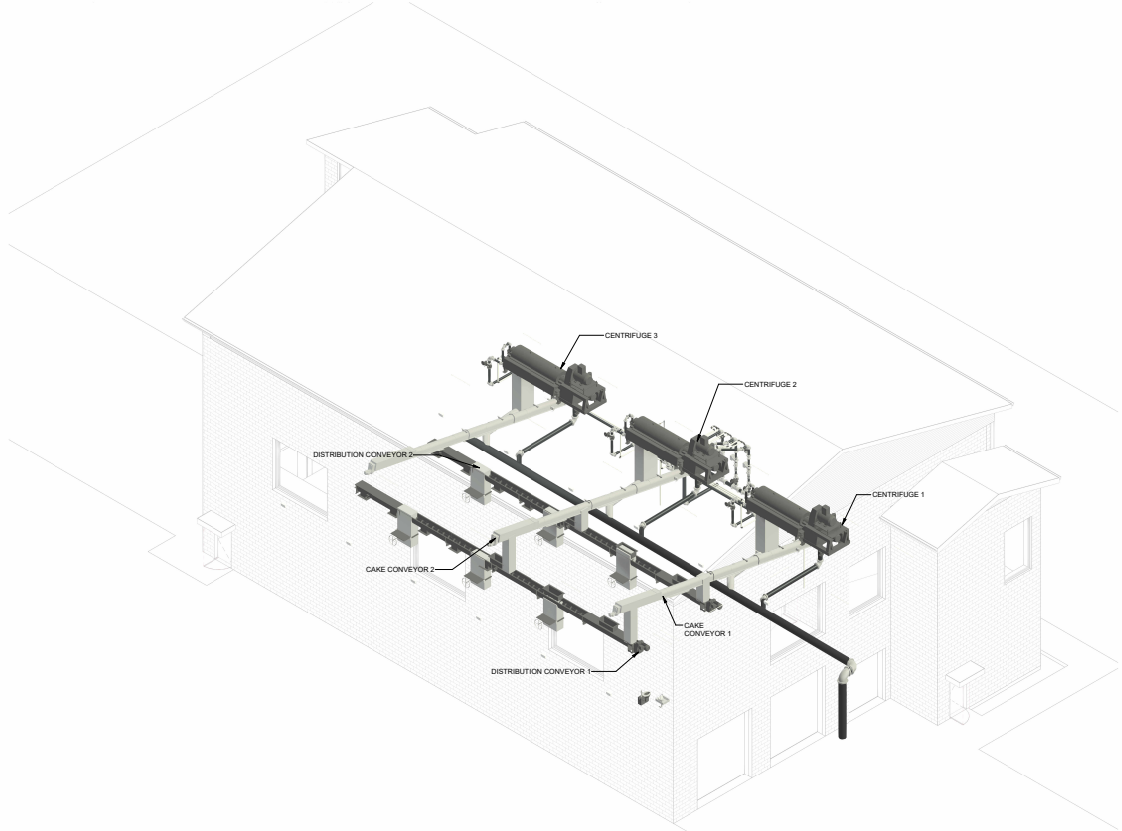

PIPING SYMBOLS
DOUBLE LINE
SINGLE LINE
DESCRIPTION
WELDED JOINT
GROOVED END JOINT
FLANGED JOINT
HUB & SPIGOT JOINT (RUBBER GASKET)
PUSH-ON JOINT (RESTRAINED)
ADAPTER SIDE GROOVED END ADAPTER FLANGE
FLANGED COUPLING ADAPTER
FLANGED COUPLING ADAPTER WITH THRUST TIES
FLEXIBLE COUPLING
FLEXIBLE COUPLING WITH THRUST TIES
METAL BELLOWS EXP JOINT
ELASTOMER BELLOWS EXP JOINT
FLEXIBLE COUPLING ADAPTER
DISMANTLING JOINT
EXPANSION COMPENSATOR
ELBOW UP
ELBOW DOWN
TEE UP
TEE DOWN
LATERAL UP
LATERAL DOWN
CONCENTRIC REDUCER
ECCENTRIC REDUCER (FOT. FOB)
UNION
CAP
ANCHOR
ELBOW, 90 DEGREE
CROSS
TEE
ELBOW, 45 DEGREE
ELBOW, 22.5 DEGREE
ELBOW, 11.25 DEGREE
LATERAL
GATE VALVE
KNIFE GATE VALVE
BUTTERFLY VALVE
CHARACTERIZED BALL CONTROL VALVE
BALL VALVE
GLOBE VALVE
3-WAY GLOBE TYPE MIXING VALVE
FOUR WAY VALVE
PINCH VALVE
DIAPHRAGM VALVE
PLUG VALVE
LUBRICATED PLUG VALVE
ECCENTRIC PLUG VALVE
CONCENTRIC PLUG VALVE
SWING CHECK VALVE
WAFER CHECK VALVE
BALL CHECK VALVE
DUAL CHECK VALVE
CHECK BACKFLOW PREVENTER
HOSE VALVE
MUD VALVE (PLAN VIEW)
NEEDLE VALVE
CONE VALVE
PRESSURE RELIEF PRESSURE-REDUCING REGULATOR
TELESCOPING VALVE
THREE WAY VALVE AIR OPERATED
THREE WAY VALVE MOTOR OPERATED
THREE WAY VALVE SOLENOID OPERATED
VACUUM VALVE
BACKPRESSURE REGULATOR SELF-CONTAINED
BACKPRESSURE REGULATOR W/ EXTERNAL PRESSURE TAP
PRESSURE-REDUCING REGULATOR: SELF-CONTAIINED
PRESSURE-REDUCING REGULATOR W/EXTERNAL PRESSURE TAP
MECHANICAL SYMBOLS
AIR OR CHEMICAL DIFFUSER
QUICK DISCONNECT HIGH PRESSURE AIR OR FLUSHING
BATCHMETER
AIR VENT
BASKET STRAINER
BLOWER
CALIBRATION COLUMN
COMPRESSOR/TURBINE
COMPRESSOR: RECIPROCATING
DIAPHRAGM SEAL
DRAIN
EJECTOR OR EDUCTOR
ELECTRIC MOTOR
EQUIPMENT DRAIN
EXPANSION JOINT, FLEXIBLE VIBRATION JOINT
FAN: EXHAUST/SUPPLY
FILTER
FIRE HYDRANT
FLAME ARRESTER
FLAME ARRESTER WITH THERMALLY OPERATED VALVE
FLOOR DRAIN
FLOW SWITCH
GAUGE: PRESSURE
GAUGE: DIFFERENTIAL PRESSURE
WEIR
MIXER
OIL OR MOISTURE TRAP
PRIMARY LEVEL ELEMENT: BUBBLER
PRIMARY LEVEL ELEMENT: ELECTRODE
PRIMARY LEVEL ELEMENT: FLOAT SWITCH
PRIMARY LEVEL ELEMENT: FLUID
PRIMARY LEVEL ELEMENT: INVERTED COLUMN
PRIMARY LEVEL ELEMENT: RADAR
PRIMARY LEVEL ELEMENT: ULTRASONIC
PRIMARY FLOW ELEMENT: FLUME
PRIMARY FLOW ELEMENT:
X = C - CORIOLIS
X = M - MAGNETIC
X = P - PROPELLER
X = PT - PITOT TUBE
X = R - ROTAMETER
X = T - TURBINE
X = TH - THERMAL
X = U - ULTRASONIC
X = D - DENSITY
PRIMARY FLOW ELEMENT: ORIFICE PLATE
PRIMARY FLOW ELEMENT: VENTURI TUBE
PRIMARY FLOW ELEMENT: WEIR
PULSATION DAMPENER
PUMP: CENTRIFUGAL
PUMP: DIAPHRAGM
PUMP: METERING
PUMP: PLUNGER
PUMP: PERISTALTIC TUBE METERING
PUMP: PROGRESSIVE CAVITY
PUMP: RECIPROCATING
PUMP: ROTARY
PUMP: SCREW
PUMP: SUBMERSIBLE
PUMP: VERTICAL LIFT
PIPE REDUCER: CONCENTRIC
PIPE REDUCER: ECCENTRIC (FOT, FOB)
ROTARY CHEMICAL FEEDER
RUPTURE DISK
SAMPLE PORT
SIGHT GLASS
SLIDE GATE
SLUICE GATE
STRAINER: WYE TYPE
STRAINER: WYE TYPE WITH BLOWOFF
THERMOMETER
VALVE: ANGLE
VALVE: AIR RELIEF
PIPE MATERIAL CHANGE
IDENTIFICATION SYMBOLS
CHEMICAL INJECTION POINT
CHEMICAL
DWG NO.
PIPE DESIGNATOR
PIPE SIZE
FLOW STREAM
X" XXX (E)or (F)
SIZE FLOW STREAM
(E) = EXISTING FLOW STREAM
(F) = FUTURE FLOW STREAM
CONTINUATION TAG
UNIQUE IDENTIFIER
CONTINUATION FROM DWG NO.
CONTINUATION TO DWG NO.
EQUIPMENT / VALVE TAG
XXX-XX-XXXX (E)or (F)
EQUIPMENT
(E) = EXISTING EQUIPMENT
(F) = FUTURE EQUIPMENT
KEY TAG
X
LINE SYMBOLS
PIPE ABOVE OR BELOW GROUND
PIPE UNDERNEATH SLAB OR STRUCTURE
FUTURE
EXISTING
DEMO
PROCESS LINE SYMBOLS
PRIMARY PROCESS FLOW IN PIPE
SECONDARY PROCESS FLOW IN PIPE
PRIMARY PROCESS FLOW IN CHANNEL
SECONDARY PROCESS FLOW IN CHANNEL
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
REV
DATE
BY
DESCRIPTION
DESIGNED CE
DRAWN CE
CHECKED
DATE JUNE 2025
carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 366-9000
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
LEGEND AND SYMBOLS
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0
1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 00GM01
SHEET NO.
OF
LAST SAVED BY: pw_admin
PROJECT NO.
FILE NAME: 203747_00GM02.dwg


SEAL WATER
PLANT WATER
FROM EXISTING SLUDGE DAY TANK
TS
POLYMER FEED UNITS
VENT (TYP)
TO INCLINE SCREW CONVEYOR NO. 1
CENTRATE
CENTRATE PUMP STATION
TO INCLINE SCREW CONVEYOR NO. 2
TO INCLINE SCREW CONVEYOR NO. 3
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED MS
DRAWN TBL
CHECKED
DATE JUNE 2025
carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 366-9000
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
PROCESS FLOW DIAGRAM 1
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57M01
SHEET NO. XX OF
REV DATE BY DESCRIPTION
PROJECT NO.
FILE NAME: ProjNum_Sheet.dwg
LAST SAVED BY: KMarshall


PLANT WATER
INCLINE CONVEYOR NO. 1
FROM CENTRIFUGE NO. 1
SLIDE GATES (RECTANGULAR KNIFE GATE)
PLANT WATER
INCLINE CONVEYOR NO. 2
FROM CENTRIFUGE NO. 2
PLANT WATER
INCLINE CONVEYOR NO. 3
FROM CENTRIFUGE NO. 3
PLANT WATER
DISTRIBUTION CONVEYOR NO. 1
SLIDE GATE (TYP)
TRUCK BAY
DISTRIBUTION CONVEYOR NO. 2
TRUCK BAY
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED MS
DRAWN TBL
CHECKED
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 385-9080
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
PROCESS FLOW DIAGRAM 2
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57M02
SHEET NO. XX OF
PROJECT NO.
FILE NAME: ProjNum_Sheet.dwg
LAST SAVED BY: KMarshall


PLANT WATER
FOR FUTURE CONNECTION
POLYMER SKID
POLYMER SKID
POLYMER SKID
TO CENTRIFUGE NO. 1 FEED AND CENTRIFUGE NO. 1 INJECTION POINTS
TO CENTRIFUGE NO. 2 FEED AND CENTRIFUGE NO. 2 INJECTION POINTS
TO CENTRIFUGE NO. 3 FEED AND CENTRIFUGE NO. 3 INJECTION POINTS
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED MS
DRAWN TBL
CHECKED CHK
DATE JUNE 2025
REV DATE BY DESCRIPTION
carollo
300 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9080
CITY OF SPRING HILL, TN
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
PROCESS FLOW DIAGRAM 3
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57M03
SHEET NO. XX OF
PROJECT NO.
FILE NAME: ProjNum_Sheet.dwg
LAST SAVED BY: KMarshall



Isometric
SCALE: NO SCALE

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

DESIGNED
DRAWN
CHECKED
DATE
JUNE 2025

REV | DATE | BY | DESCRIPTION

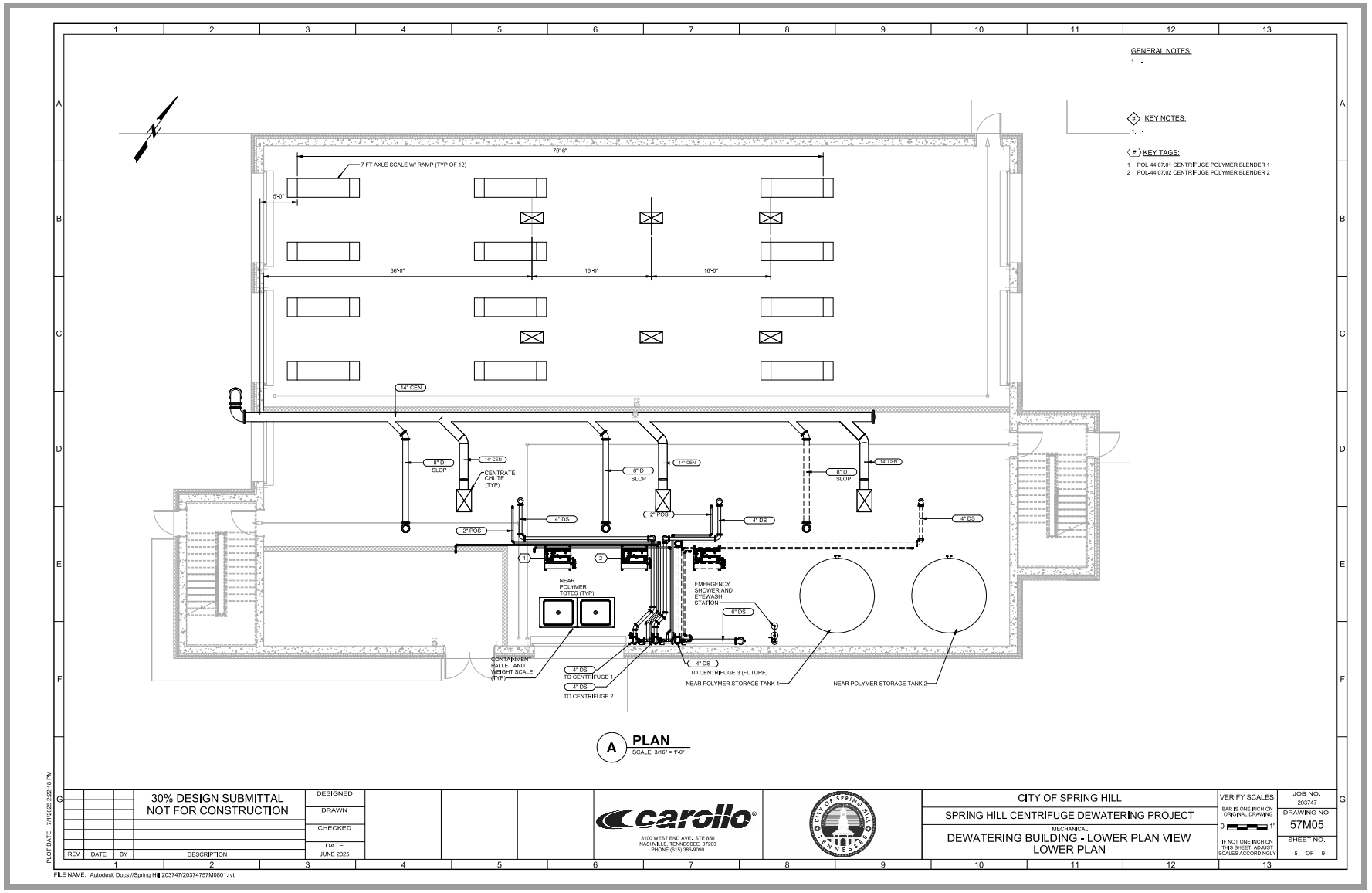
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

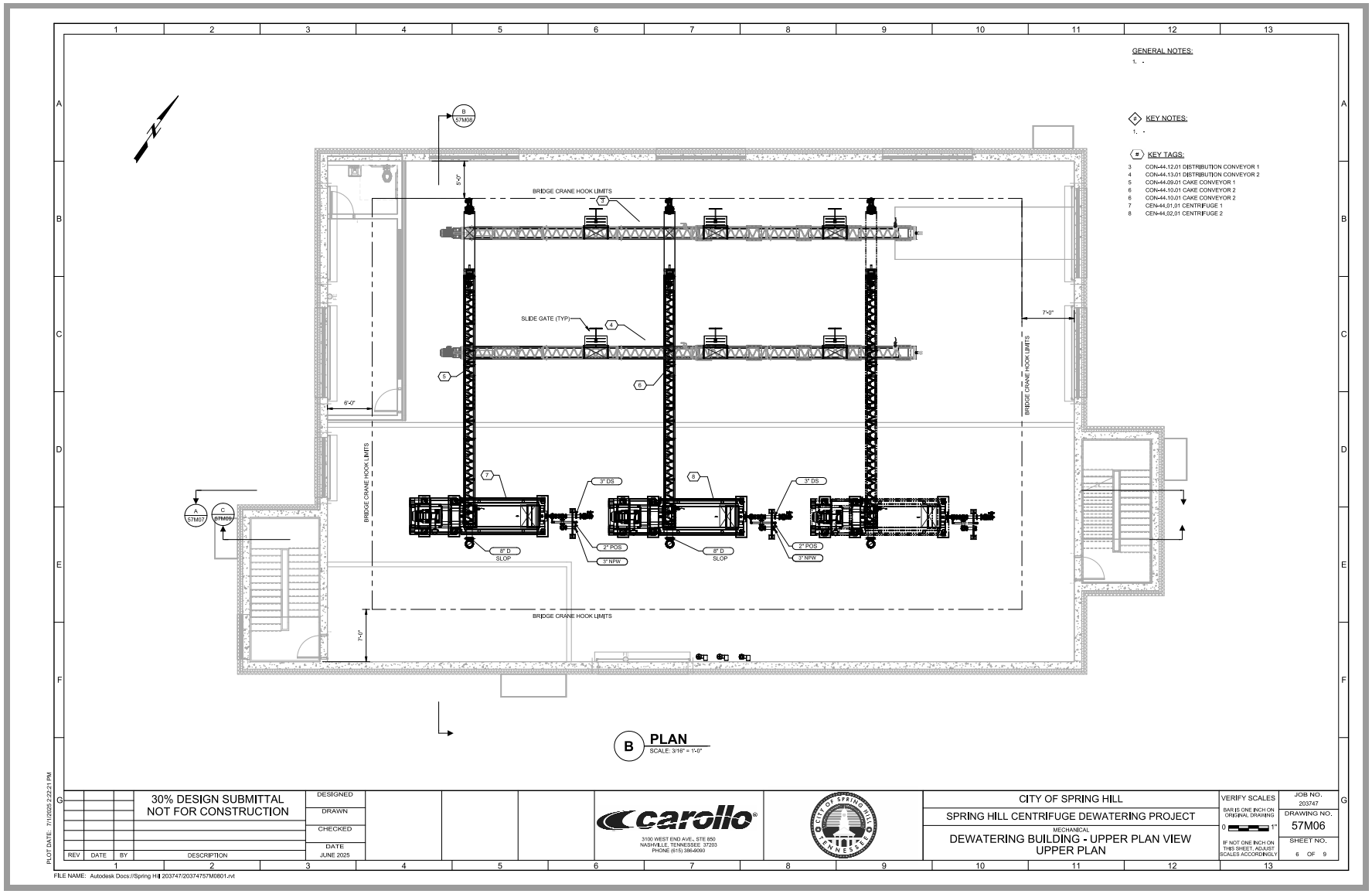
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
DEWATERING BUILDING - 3D PERSPECTIVE
PERSPECTIVE

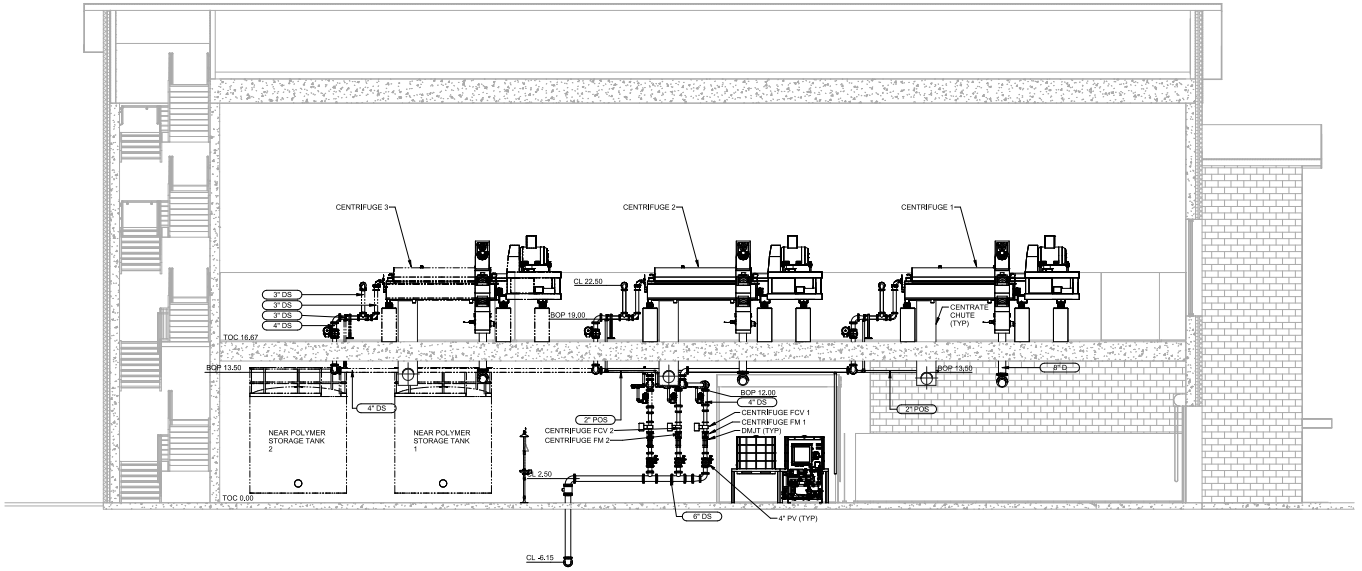
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 57M04
SHEET NO. 4 OF 9

PLOT DATE: 7/1/2025 2:22:16 PM
FILE NAME: Autodesk Docs://Spring Hill 203747/20374757M0801.rvt


GENERAL NOTES:
1. -
KEY NOTES:
1. -
KEY TAGS:
1 POL-44.07.01 CENTRIFUGE POLYMER BLENDER 1
2 POL-44.07.02 CENTRIFUGE POLYMER BLENDER 2
70'-6"
7 FT AXLE SCALE W/ RAMP (TYP OF 12)
5'-0"
36'-0"
16'-0"
16'-0"
14" CEN
8" D SLOP
CENTRATE CHUTE (TYP)
4" DS
2" POS
NEAR POLYMER TOTES (TYP)
EMERGENCY SHOWER AND EYEWASH STATION
6" DS
CONTAINMENT PALLET AND WEIGHT SCALE (TYP)
TO CENTRIFUGE 1
TO CENTRIFUGE 2
TO CENTRIFUGE 3 (FUTURE)
NEAR POLYMER STORAGE TANK 1
NEAR POLYMER STORAGE TANK 2
A PLAN
SCALE: 3/16" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED
DRAWN
CHECKED
DATE
JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9000
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
DEWATERING BUILDING - LOWER PLAN VIEW
LOWER PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57M05
SHEET NO. 5 OF 9
PLOT DATE: 7/1/2025 2:22:18 PM
FILE NAME: Autodesk Docs://Spring Hi 203747/20374757M0801.rvt


GENERAL NOTES:
1. -
KEY NOTES:
1. -
KEY TAGS:
3 CON-44.12.01 DISTRIBUTION CONVEYOR 1
4 CON-44.13.01 DISTRIBUTION CONVEYOR 2
5 CON-44.09.01 CAKE CONVEYOR 1
6 CON-44.10.01 CAKE CONVEYOR 2
6 CON-44.10.01 CAKE CONVEYOR 2
7 CEN-44.01.01 CENTRIFUGE 1
8 CEN-44.02.01 CENTRIFUGE 2
B S7M08
BRIDGE CRANE HOOK LIMITS
SLIDE GATE (TYP)
5'-0"
6'-0"
7'-0"
3" DS
2" POS
3" NPW
8" D SLOP
A S7M07
C S7M09
B PLAN
SCALE: 3/16" = 1'-0"
30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION
DESIGNED
DRAWN
CHECKED
DATE
JUNE 2025
REV DATE BY DESCRIPTION
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9000
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
DEWATERING BUILDING - UPPER PLAN VIEW
UPPER PLAN
VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY
JOB NO. 203747
DRAWING NO. 57M06
SHEET NO. 6 OF 9
PLOT DATE: 7/1/2025 2:22:21 PM
FILE NAME: Autodesk Docs://Spring Hi 203747/20374757M0801.rvt



A 57M06 **SECTION**
SCALE: 3/16" = 1'-0"

REV	DATE	BY	DESCRIPTION
			30% DESIGN SUBMITTAL NOT FOR CONSTRUCTION

DESIGNED
DRAWN
CHECKED
DATE JUNE 2025

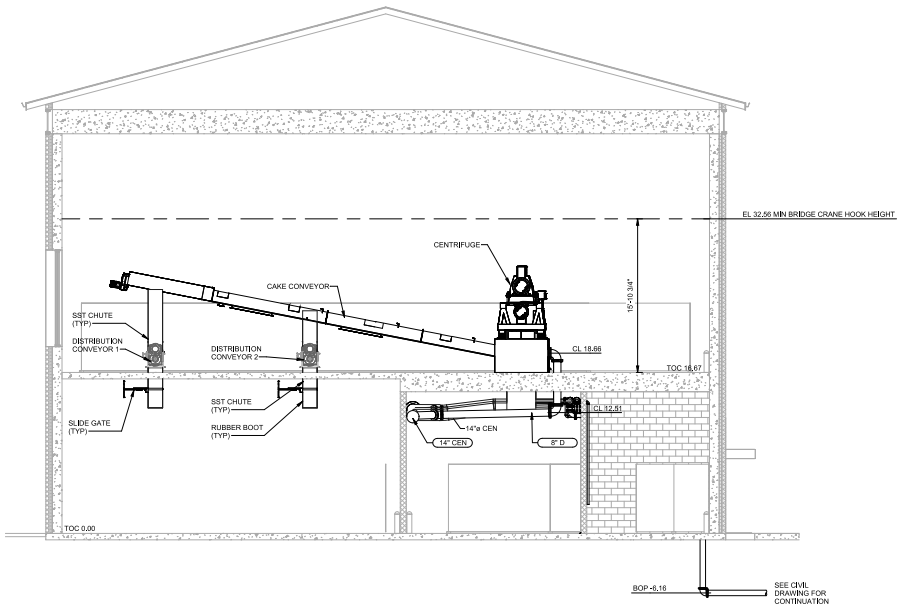
carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9000

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
SECTIONS AND DETAILS 1

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 57M07
SHEET NO. 7 OF 9

PLOT DATE: 7/1/2025 2:22:24 PM
FILE NAME: Autodesk Docs://Spring Hi 203747/20374757M0801.rvt



B 57M06 **SECTION**
SCALE: 3/16" = 1'-0"

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carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9000

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
MECHANICAL
SECTIONS AND DETAILS 2

VERIFY SCALES
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JOB NO. 203747
DRAWING NO. 57M08
SHEET NO. 8 OF 9

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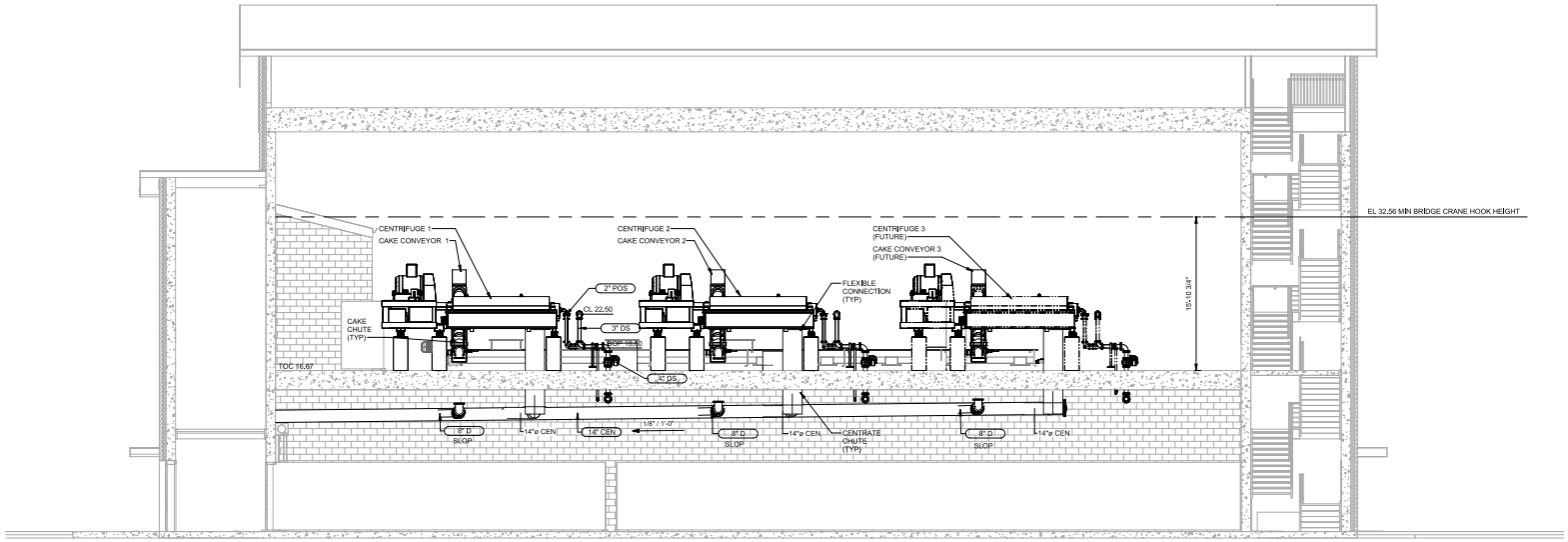

C SECTION
57M06 SCALE: 3/16" = 1'-0"

| | | |

NOTES

1. SIZES OF EQUIPMENT PADS INDICATED ON THE DRAWINGS ARE APPROXIMATE. EXACT DIMENSIONS SHALL BE DETERMINED BY THE CONTRACTOR FOR THE EQUIPMENT FURNISHED. ALL FLOOR MOUNTED EQUIPMENT SHALL BE SET ON CONCRETE PADS CONFORMING TO DETAILS SHOWN ON THE TYPICAL STRUCTURAL DRAWINGS.
2. DIELECTRIC COUPLINGS, FLANGES OR UNIONS SHALL BE INSTALLED AT ALL CONNECTIONS OF COPPER PIPE TO OTHER TYPES OF METALLIC PIPING.
3. HVAC PIPING AND DUCTWORK DRAWINGS DO NOT SHOW ALL DRAINS, VENTS, OFFSETS AND FITTINGS ETC. REQUIRED FOR THE COMPLETE SYSTEM. SMALL PIPING IS SHOWN APPROXIMATELY TO SCALE BUT NOT EVERY FITTING AND OFFSET IS SHOWN. THE CONTRACTOR SHALL FURNISH, INSTALL AND TEST ALL HVAC SYSTEMS TO PROVIDE THE COMPLETE SYSTEM.
4. UNLESS OTHERWISE SHOWN ON THE DRAWINGS ALL FLOOR SLAB AND WALL PENETRATIONS SHALL BE AS SHOWN ON THE TYPICAL DETAILS.
5. NOT ALL AND ONLY CERTAIN TYPES OF SUPPORTS ARE SHOWN ON THE HVAC DRAWINGS. UNLESS OTHERWISE DETAILED ON THE DRAWINGS ALL PIPE AND DUCT SUPPORTS SHALL BE DESIGNED, FURNISHED AND INSTALLED BY THE CONTRACTOR AS SPECIFIED.
5. THIS IS A GENERAL LIST OF SYMBOLS. NOT ALL ITEMS SHOWN HERE APPEAR ON CONTRACT DRAWINGS.
7. TYPICAL DETAILS SHALL BE USED FOR ALL PERMANENT WORK EVEN THOUGH THEY ARE NOT CALLED OUT AT ALL LOCATIONS WHERE THEY APPLY.
8. COORDINATE FINAL LOUVER SIZE AND LOCATION WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
9. PROVIDE TURNING VANES IN ALL ELBOWS. (SHOWN OR NOT)

ABBREVIATIONS

A	@	AT
	AC	AIR CONDITIONING
	AFF	ABOVE FINISHED FLOOR
	AFS	AIR FLOW SWITCH
	AHU	AIR HANDLING UNIT
B	BD	BALANCING DAMPER
	BDD	BACKDRAFT DAMPER
	BLR	BOILER
	BOD	BOTTOM OF DUCT
C	CH	CHILLER
	CL	CENTER LINE
	CO	CARBON MONOXIDE DETECTOR
	CT	COOLING TOWER
	CS	CURRENT SENSOR
	CU	CONDENSING UNIT
D	DG	DOOR GRILLE
	DP	DIFFERENTIAL PRESSURE
E	EA	EXHAUST AIR
	ECU	EVAPORATIVE COOLING UNIT
	EF	EXHAUST FAN
	ER	EXHAUST REGISTER OR GRILLE
	EUH	ELECTRIC UNIT HEATER
F	FA	FOUL AIR
	FCU	FAN COIL UNIT
	FD	FIRE DAMPER
G	GUH	GAS UNIT HEATER
H	HP	HEAT PUMP
L	LV	LOUVER
M	MAU	MAKEUP AIR UNIT
	MCA	MINIMUM CIRCUIT AMPACITY
	MD	MOTORIZED DAMPER
	MOP	MAXIMUM OVERCURRENT PROTECTION
N	NC	NORMALLY CLOSED
	NO	NORMALLY OPEN
O	OA	OUTSIDE AIR
	OCF	ODOR CONTROL FAN
P	PPU	POSITIVE PRESSURIZATION UNIT
R	RA	RETURN AIR
	RR	RETURN REGISTER OR GRILLE
	RTD	RESISTANCE TEMPERATURE DETECTOR
S	SA	SUPPLY AIR
	SD	SMOKE DAMPER OR SMOKE DETECTOR
	SF	SUPPLY FAN
	SFD	SMOKE & FIRE DAMPER COMBINATION
	SR	SUPPLY REGISTER, GRILLE OR DIFFUSER
V	VAV	VARIABLE AIR VOLUME
W	WUH	WATER UNIT HEATER

DUCTWORK SYMBOLS

FEATURE	SYMBOL
DIRECTION OF FLOW	
DUCT SIZE- FIRST NUMBER IS SIDE SHOWN	12x20
ROUND DUCT	12 DIA OR 12"Ø
DUCT SECTION, POSITIVE PRESS FIRST NUMBER IS TOP	20x12
DUCT SECTION, NEGATIVE PRESS FIRST NUMBER IS TOP	20x12
SIDE MOUNT DEVICE	
ELEVATION CHANGE (R) RISE, (D) DROP	R
ACCESS DOOR	AD / AD
BOTTOM MOUNT DEVICE REGISTER, GRILLE, DIFFUSER OR DUCT TAKEOFF	
FLEXIBLE CONNECTION	
FLEXIBLE DUCT	OR
TURNING VANES	
RECTANGULAR TO RECTANGULAR TRANSITION	20x12 — 16x8
RECTANGULAR TO ROUND TRANSITION	20x12 — 16 DIA
POSITIVE PRESSURE DUCT - ELBOW TURNED UP (USE ONE DIAGONAL FOR NEGATIVE PRESSURE)	
POSITIVE PRESSURE DUCT - ELBOW TURNED DOWN (USE ONE DIAGONAL FOR NEGATIVE PRESSURE)	
SMOKE DETECTOR CONFIRM ORIENTATION OF INSTALLATION	
DAMPERS	
BACKDRAFT	
BALANCING	
FIRE W/ ACCESS DOOR	FD
MOTORIZED	M
SMOKE CONFIRM ORIENTATION OF INSTALLATION	
COMBINATION SMOKE AND FIRE CONFIRM ORIENTATION OF INSTALLATION	

EQUIPMENT SYMBOLS

FEATURE	SYMBOL
CONDENSER UNIT OR HEAT PUMP COMPRESSOR	
CENTRIFUGAL FAN	
CONTROL PANEL	
COOLING COIL	D / C
CURRENT SENSOR	CS
DIRECT EXPANSION COIL	D / X
DUCT SMOKE DETECTOR	
ELECTRIC HEATER	
FILTER	
AIR FLOW SWITCH	AFS
GAS HEATER	
HUMIDISTAT	H
INLINE/AXIAL FAN	
MOTOR OPERATED VALVE	M
PRESSURE DIFFERENTIAL SWITCH	PD
RESISTANCE TEMPERATURE DETECTOR	RTD
ROOF/SIDEWALL FAN	
ROOF VENT OR ROOF FAN	
SMOKE DETECTOR	SD
SOLENOID VALVE	S
THERMOSTAT 60" ABOVE FINISH FLOOR	T
UNIT HEATER (HORIZONTAL TYPE)	
UNIT HEATER (VERTICAL TYPE)	

NOTE: THIS IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS. NOT ALL ITEMS SHOWN HERE APPEAR ON THE CONTRACT DRAWINGS.

REGISTERS, GRILLES & LOUVERS SYMBOLS

FEATURE	SYMBOL
LOUVER/BRICK VENT - AIRFLOW SCHEMATIC	
LOUVER/BRICK VENT - FIXED	
LOUVER/BRICK VENT - OPERABLE	M
TRANSFER GRILLE	
TO SPACE	
FROM SPACE	
SUPPLY DIFFUSER OR GRILLE ARROWS INDICATE FLOW DIRECTION	
RETURN DIFFUSER OR GRILLE ARROWS INDICATE FLOW DIRECTION	
EXHAUST DIFFUSER OR GRILLE ARROWS INDICATE FLOW DIRECTION	

LEGEND FOR REGISTERS & GRILLES

TYPE OF REGISTER OR GRILLE (AS DESCRIBED IN SPECIFICATIONS) — GRILL SIZE — SR-1/12x12 4/0/4 — CFM — DIRECTION OF FLOW

RECTANGLE DUCT:	SUPPLY	RETURN	EXHAUST
DUCT UP THRU ROOF OR FLOOR			
DUCT UP			
DUCT DOWN			

ROUND DUCT:	
DUCT UP THRU ROOF OR FLOOR	
DUCT UP	
DUCT DOWN	

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PHONE (615) 386-9000

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
HVAC
GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS

VERIFY SCALES
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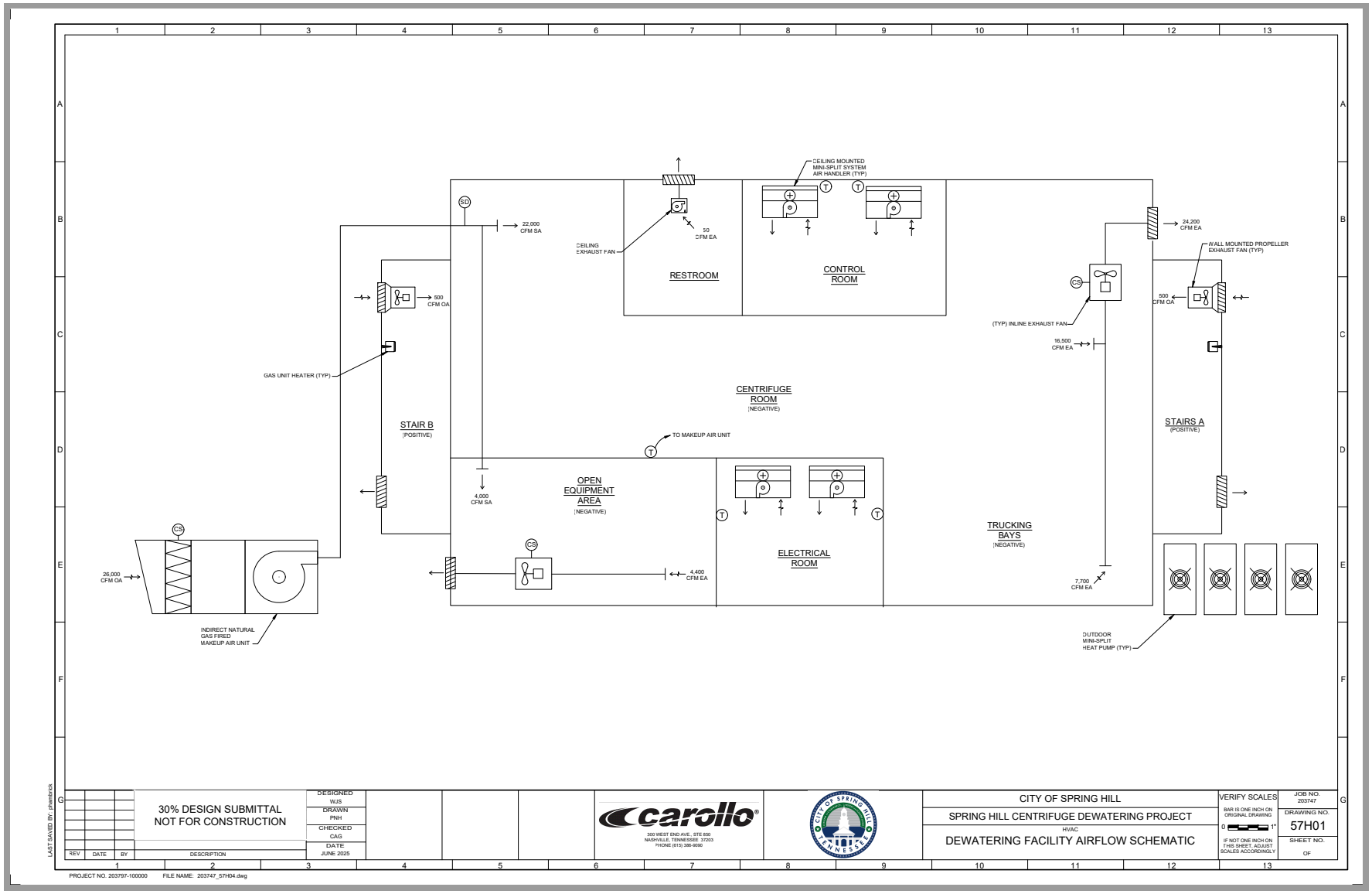
JOB NO. 203747
DRAWING NO. 00GH01
SHEET NO.
OF

LAST SAVED BY: pw_admin
PROJECT NO.
FILE NAME: ProjNum_00GH01.dwg


CEILING MOUNTED MINI-SPLIT SYSTEM AIR HANDLER (TYP)
CEILING EXHAUST FAN
50 CFM EA
22,000 CFM SA
500 CFM OA
GAS UNIT HEATER (TYP)
RESTROOM
CONTROL ROOM
CENTRIFUGE ROOM (NEGATIVE)
STAIR B (POSITIVE)
TO MAKEUP AIR UNIT
OPEN EQUIPMENT AREA (NEGATIVE)
4,000 CFM SA
26,000 CFM OA
INDIRECT NATURAL GAS FIRED MAKEUP AIR UNIT
4,400 CFM EA
ELECTRICAL ROOM
TRUCKING BAYS (NEGATIVE)
7,700 CFM EA
16,500 CFM EA
(TYP) INLINE EXHAUST FAN
24,200 CFM EA
WALL MOUNTED PROPELLER EXHAUST FAN (TYP)
500 CFM OA
STAIRS A (POSITIVE)
OUTDOOR MINI-SPLIT HEAT PUMP (TYP)
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PHONE (615) 386-9090
CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
HVAC
DEWATERING FACILITY AIRFLOW SCHEMATIC
VERIFY SCALES
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0 1"
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JOB NO. 203747
DRAWING NO. 57H01
SHEET NO.
OF
LAST SAVED BY: pbambrick
PROJECT NO. 203797-100000
FILE NAME: 203747_57H04.dwg

CONDUIT & WIRING

SYMBOL	DESCRIPTION
	CONDUIT CONCEALED IN WALL OR CEILING
	CONDUIT CONCEALED IN FLOOR/UNDER SLAB/UNDER GROUND
	HOMERUN CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN

LIGHTING LEGEND

SYMBOL	DESCRIPTION
	LIGHT FIXTURE ON NORMAL BRANCH CIRCUIT
	LIGHT FIXTURE ON CRITICAL BRANCH CIRCUIT
	LIGHT FIXTURE CONN. TO LIFE SAFETY BRANCH
	LIGHT FIXTURE ON NORMAL BRANCH CIRCUIT
	LIGHT FIXTURE ON CRITICAL BRANCH CIRCUIT
	LIGHT FIXTURE CONN. TO LIFE SAFETY BRANCH
	LIGHT FIXTURE ON NORMAL BRANCH CIRCUIT
	LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT
	LIGHT FIXTURE ON CRITICAL BRANCH CIRCUIT
	LIGHT FIXTURE CONNECTED TO NORMAL BRANCH CIRCUIT
	LIGHT FIXTURE CONNECTED TO CRITICAL BRANCH CIRCUIT
	LIGHT FIXTURE CONNECTED TO LIFE SAFETY BRANCH CIRCUIT
	EXIT LIGHT, CEILING MOUNTED
	EXIT LIGHT, WALL MOUNTED
	TWO HEAD BATTERY POWERED EMERGENCY EGRESS LIGHT
	LIGHTING FIXTURE TYPE DESIGNATION-SEE LIGHTING FIXTURE SCHEDULE
	AREA OR STREET LIGHT FIXTURE
	BOLLARD

LIGHTING CONTROL LEGEND

SYMBOL	DESCRIPTION
S	SINGLE POLE LIGHT SWITCH (NORMAL/IVORY)
S_3	THREE-WAY TOGGLE SWITCH (NORMAL/IVORY)
S_D	UNIVERSAL DIMMER (NORMAL/IVORY)
S_{3D}	THREE-WAY UNIVERSAL DIMMER (NORMAL/IVORY)
S_V	WALL SWITCH VACANCY SENSOR (NORMAL/IVORY)
S_{VD}	WALL SWITCH VACANCY SENSOR W/DIMMING (NORMAL/IVORY)
S_{LVD}	WALL MOUNT LOW-VOLTAGE DIMMER (NORMAL/IVORY)
S_{LV}	WALL MOUNT LOW-VOLTAGE SWITCH (NORMAL/IVORY)
S_E	SINGLE POLE TOGGLE SWITCH (EMERGENCY/RED)
S_{3E}	THREE-WAY TOGGLE SWITCH (EMERGENCY/RED)
S_{DE}	UNIVERSAL DIMMER (EMERGENCY/RED)
S_{3DE}	THREE-WAY UNIVERSAL DIMMER (EMERGENCY/RED)
S_{VE}	WALL SWITCH VACANCY SENSOR (EMERGENCY/RED)
S_{VDE}	WALL SWITCH VACANCY SENSOR W/DIMMING (EMERGENCY/RED)
S_{LVDE}	WALL MOUNT LOW-VOLTAGE DIMMER (EMERGENCY/RED)
S_{LVE}	WALL MOUNT LOW-VOLTAGE SWITCH (EMERGENCY/RED)
	CEILING MOUNTED VACANCY SENSOR
	CEILING MOUNTED DAY-LIGHT SENSOR
	PHOTOCELL

MISCELLANEOUS

MGA	MEDICAL GAS ALARM
LPA	LINE PRESSURE ALARM
RGA	REMOTE GENERATOR ANNUNCIATOR
LCP	LOCAL CONTROL PANEL
DPA	DIFFERENTIAL PRESSURE ALARM
NCT	NURSE CALL TERMINAL
	SOLENOID VALVE
R	RELAY
	JUNCTION BOX
RIM	REMOTE LINE ISOLATION MONITOR WITH MILLIMETER
	REMOTE RECEPTACLE GROUND JACK MODULE (ROOM GROUND POINT) SEE DETAIL
	REMOTE RECEPTACLE GROUND JACK MODULE (PATIENT GROUND POINT) SEE DETAIL
	O.R. CLOCK/TIMER
	SHUNT TRIP EMERGENCY OFF BUTTON

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ABV	MOUNT ABOVE COUNTER
ABC	ABOVE CEILING
EDF	ELECTRIC DRINKING FOUNTAIN
EX	EXISTING TO REMAIN
FBE	FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR
FBO	FURNISHED BY OTHERS, INSTALLED BY ELECTRICAL CONTRACTOR
TR	TAMPER RESISTANT
UON	UNLESS OTHERWISE NOTED
WP	WEATHER PROOF, NEMA 3R

RECEPTACLE LEGEND

SYMBOL	DESCRIPTION	MOUNTING HT TO CENTERLINE UNO
	SIMPLEX RECEPTACLE, AMPERAGE, VOLTAGE, NEMA CONFIGURATION, AS NOTED	18"
	20A 120V, DUPLEX RECEPTACLE	18"
	20A 120V, DUPLEX RECEPTACLE ABOVE COUNTER	AS SPECIFIED
	20A 120V, QUADRAPLEX RECEPTACLE	18"
	20A 120V, QUADRAPLEX RECEPTACLE ABOVE COUNTER	AS SPECIFIED
	20A 120V, FLOOR BOX WITH (1) DUPLEX RECEPTACLE	
	20A 120V, FLOOR BOX WITH (2) DUPLEX RECEPTACLES	
	PLUGMOLD #3000 WITH HUBBELL 5352 DUPLEX 20A RECEPTACLES 24" ON CENTER	
E	EMERGENCY POWER	
GFI	GROUND FAULT CIRCUIT INTERUPT	
TV	MOUNTED 6" TO CENTERLINE BELOW FINISHED CEILING	
WP	WEATHERPROOF WITH NEMA 3R ENCLOSURE	
IG	ISOLATED GROUND	
IM	RECEPTACLE FOR ICE MAKER	
REF	RECEPTACLE FOR REFRIGERATOR	
CM	RECEPTACLE FOR COFFEE MAKER	
MW	RECEPTACLE FOR MICROWAVE	
WC	RECEPTACLE FOR WARMING CABINET	
P	RECEPTACLE FOR PRINTER	
PM	RECEPTACLE FOR PATIENT MONITOR	
PT	RECEPTACLE FOR PATIENT TRACKER	
CC	RECEPTACLE FOR CRASH CART	
C	RECEPTACLE FOR COPIER	
TR	TAMPER RESISTANT RECEPTACLE	
SW	SWITCHED RECEPTACLE	
U	USB RECEPTACLE	

POWER EQUIPMENT

SYMBOL	DESCRIPTION
	FACTORY WIRED CONTROLLER OR DISCONNECT CONNECTION, FBO.
	COMBINATION MOTOR STARTER DISCONNECT
	ENCLOSED CIRCUIT BREAKER
	DISCONNECT SWITCH, NON-FUSIBLE
	DISCONNECT SWITCH, FUSIBLE
	MOTOR CONNECTION WITH APPROXIMATE HORSE-POWER SHOWN
	PULL BOX
S_T	THERMAL MOTOR SWITCH (NORMAL)
S_{TWP}	THERMAL MOTOR SWITCH, WEATHERPROOF (NORMAL)
S_{TE}	THERMAL MOTOR SWITCH (EMERGENCY)
S_{TWP}	THERMAL MOTOR SWITCH, WEATHERPROOF (EMERGENCY)

FIRE ALARM LEGEND

SYMBOL	DESCRIPTION	MOUNTING HT TO CENTERLINE UNO
	FLASHING LIGHT	80"
	CHIME/FLASHING LIGHT COMBINATION	80"
	FLASHING LIGHT/HORN SIGNAL STATION	80"
	FLASHING LIGHT SPEAKER SIGNAL STATION	80"
	MANUAL PULL STATION	46"
	SMOKE DETECTOR	CEILING
DSD	DUCT-SMOKE DETECTOR (DAMPER) OR (EXHAUST)	———
AHD	AUTOMATIC HEAT DETECTOR (RATE OF RISE TYPE)	———
SDFR	SYSTEM CONNECTED SMOKE DETECTOR FOR FIREMAN'S RECALL	CEILING
	FIRE SMOKE DAMPER	18"
SDH	SMOKE DOOR HOLDER	6'-0"
TS	TAMPER SWITCH	———
FS	FLOW SWITCH	CEILING
PS	PRESSURE SWITCH	CEILING
CO	CARBON MONOXIDE DETECTOR	CEILING
PIV	POST INDICATOR VALVE	———
DCV	DOUBLE DETECTOR CHECK VALVE	———
FACP	FIRE ALARM CONTROL PANEL	———
FAEP	FIRE ALARM EXPANDER	———
FAA	REMOTE ANNUNCIATOR	———
	FIREFIGHTER'S PHONE JACK	46"

SYMBOLS GENERAL NOTES:

A. ALL MOUNTING HEIGHTS GIVEN IN THE LEGEND, SCHEDULES, PLANS, AND DRAWING NOTES ARE TO THE CENTERLINE OF THE DEVICE, UNLESS OTHERWISE NOTED.

B. INSTALL ALL SWITCHES AT A CENTERLINE HEIGHT OF 46" A.F.F. UNLESS OTHERWISE NOTED. WHERE SWITCHES OR RECEPTACLES ARE MOUNTED ABOVE CASEWORK OR MILLWORK, LOCATE AT A HEIGHT OF 3'-8" MAX. ABOVE FINISH FLOOR OR 3" ABOVE BACKSPLASH TO CENTERLINE.

C. WHERE COVERPLATES CONFLICT WITH CASEWORK OR MILLWORK, SLIGHTLY ADJUST THE MOUNTING HEIGHTS OF THE WIRING DEVICES TO MAKE THE COVERPLATES CLEAR THE COUNTERTOP OR BACKSPLASH BY 1".

D. ADDITIONAL SYMBOLS MAY BE SHOWN OR DENOTED ON OTHER SHEETS.

E. ALL SYMBOLS, NOTES, AND ABBREVIATIONS SHOWN ON THE LEGEND ARE NOT NECESSARILY USED IN THIS SET OF CONTRACT DOCUMENTS.

F. NUMERICAL SUBSCRIPT ADJACENT TO DEVICE FIXTURE, EQUIPMENT OR JUNCTION BOX SYMBOL ON THE DRAWINGS DENOTES THE PANELBOARD CIRCUIT NUMBER TO WHICH DEVICE, FIXTURE, EQUIPMENT OR WIRING IN JUNCTION BOX IS CONNECTED.

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CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ELECTRICAL
LEGEND

VERIFY SCALES
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0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 00GE01
SHEET NO. OF XXX

PLOT DATE: 6/27/2025 4:14:11 PM
FILE NAME: C:\Users\dpauls\Documents\Revit\ICT_2545-01375-00_E25_david.pauls9S7Z4.rvt

GENERAL NOTES:

A. EXISTING ONE-LINE DIAGRAMS ARE BASED ON INFORMATION PROVIDED BY OTHERS. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE ACCORDINGLY PRIOR TO COMMENCING WORK.

B. REMOVE ALL ABANDONED ELECTRICAL CONDUIT, WIRE, BOXES, PANELS, DEVICES, AND EQUIPMENT UNLESS OTHERWISE NOTED TO REMAIN.

C. WHERE EQUIPMENT OR CIRCUITS ARE REMOVED, UPDATE THE CORRESPONDING 'MCC-4' TO INDICATE "SPARE" OR "SPACE" IN PLACE OF THE REMOVED LOAD.

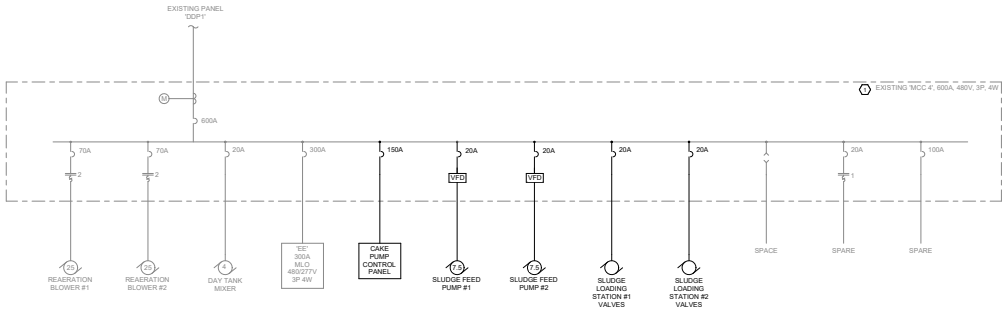
KEYED NOTES: ⬡

1. CONTRACTOR SHALL COORDINATE WITH CLIENT TO DETERMINE WHICH SECTIONS OF THE EXISTING MCC ARE TO BE DEMOLISHED. SCOPE OF DEMOLITION TO BE CONFIRMED PRIOR TO START OF WORK.

LEGEND:

DEMOLISHED ELECTRICAL EQUIPMENT

EXISTING EQUIPMENT TO REMAIN



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CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ELECTRICAL
DEMO ONE-LINE

VERIFY SCALES
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0 1"
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JOB NO. 203747
DRAWING NO. 00GE02
SHEET NO. OF XXX

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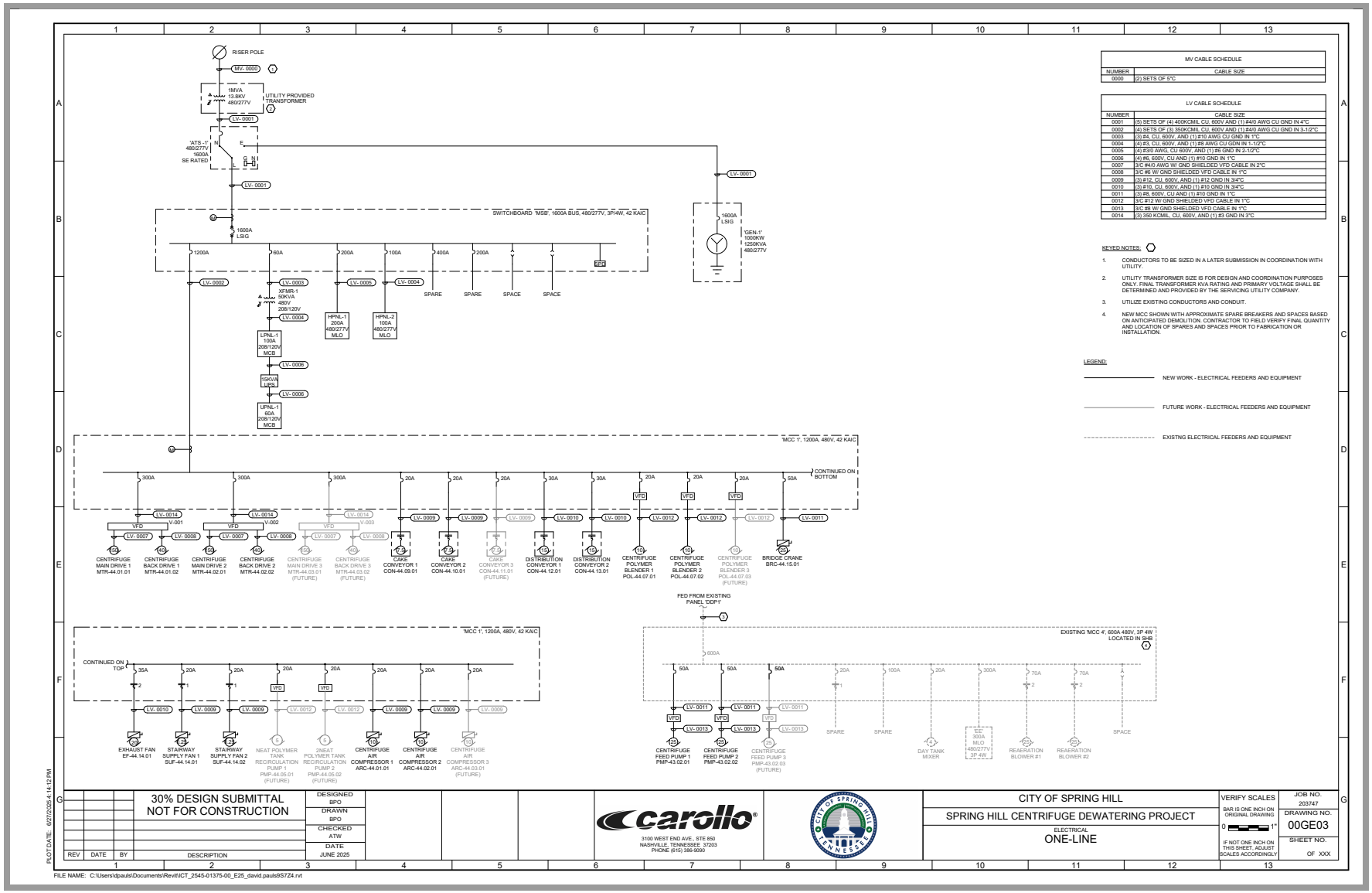

MV CABLE SCHEDULE	
NUMBER	CABLE SIZE
0000	(2) SETS OF 5"C

LV CABLE SCHEDULE	
NUMBER	CABLE SIZE
0001	(5) SETS OF (4) 400KCMIL CU, 600V AND (1) #4/0 AWG CU GND IN 4"C
0002	(4) SETS OF (3) 350KCMIL CU, 600V AND (1) #4/0 AWG CU GND IN 3-1/2"C
0003	(3) #4, CU, 600V, AND (1) #10 AWG CU GND IN 1"C
0004	(4) #3, CU, 600V, AND (1) #8 AWG CU GDN IN 1-1/2"C
0005	(4) #3/0 AWG, CU 600V, AND (1) #6 GND IN 2-1/2"C
0006	(4) #6, 600V, CU AND (1) #10 GND IN 1"C
0007	3/C #4/0 AWG W/ GND SHIELDED VFD CABLE IN 2"C
0008	3/C #6 W/ GND SHIELDED VFD CABLE IN 1"C
0009	(3) #12, CU, 600V, AND (1) #12 GND IN 3/4"C
0010	(3) #10, CU, 600V, AND (1) #10 GND IN 3/4"C
0011	(3) #8, 600V, CU AND (1) #10 GND IN 1"C
0012	3/C #12 W/ GND SHIELDED VFD CABLE IN 1"C
0013	3/C #8 W/ GND SHIELDED VFD CABLE IN 1"C
0014	(3) 350 KCMIL CU, 600V, AND (1) #3 GND IN 3"C

KEYED NOTES:

1. CONDUCTORS TO BE SIZED IN A LATER SUBMISSION IN COORDINATION WITH UTILITY.
2. UTILITY TRANSFORMER SIZE IS FOR DESIGN AND COORDINATION PURPOSES ONLY. FINAL TRANSFORMER KVA RATING AND PRIMARY VOLTAGE SHALL BE DETERMINED AND PROVIDED BY THE SERVICING UTILITY COMPANY.
3. UTILIZE EXISTING CONDUCTORS AND CONDUIT.
4. NEW MCC SHOWN WITH APPROXIMATE SPARE BREAKERS AND SPACES BASED ON ANTICIPATED DEMOLITION. CONTRACTOR TO FIELD VERIFY FINAL QUANTITY AND LOCATION OF SPARES AND SPACES PRIOR TO FABRICATION OR INSTALLATION.

LEGEND:

NEW WORK - ELECTRICAL FEEDERS AND EQUIPMENT

FUTURE WORK - ELECTRICAL FEEDERS AND EQUIPMENT

EXISTNG ELECTRICAL FEEDERS AND EQUIPMENT

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CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ELECTRICAL
ONE-LINE

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING
0 1"
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

JOB NO. 203747
DRAWING NO. 00GE03
SHEET NO. OF XXX

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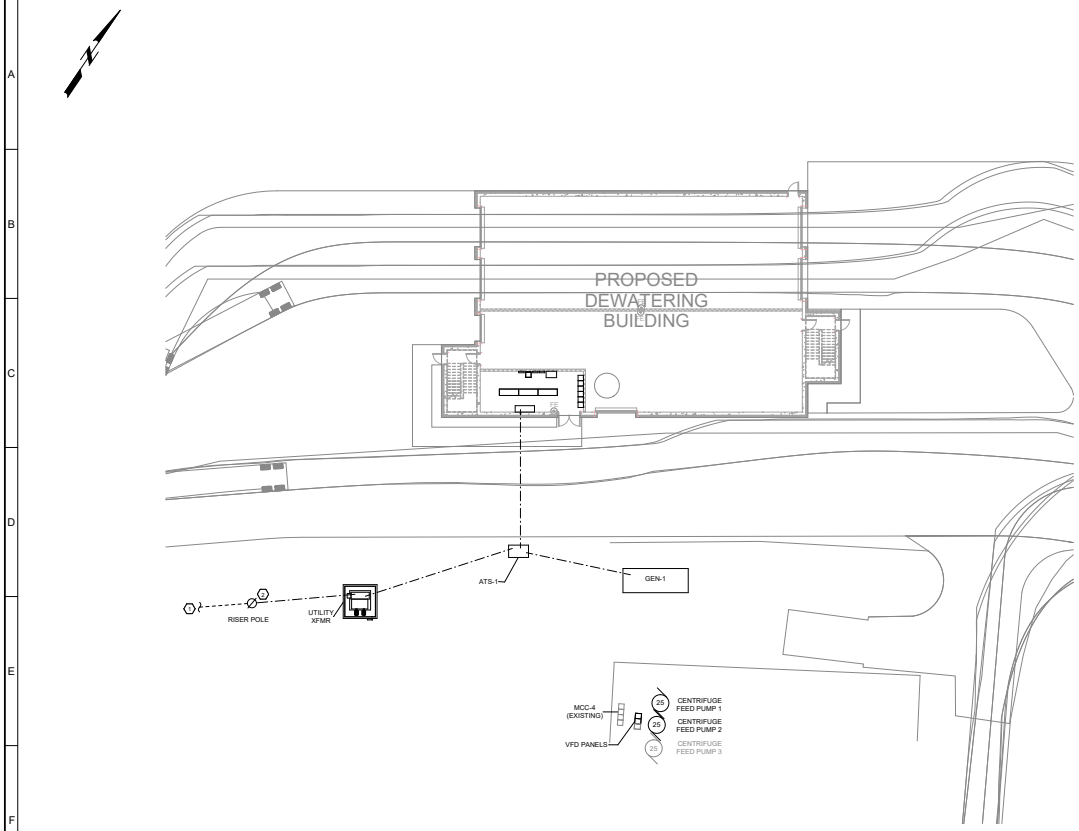

1 **PLAN**
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

A. EXISTING SOLIDS HANDLING BUILDING (SHB) BACKGROUND WAS PREPARED BY OTHERS. CONTRACTOR TO FIELD VERIFY EXISTING LOCATION

B. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING MCC AND ELECTRICAL ROOM LAYOUT FOR INSTALLATION OF VFD PANELS.

C. ALL UNDERGROUND EXCAVATION REQUIRES UTILITY LOCATES TO BE PERFORMED AND GPR UTILIZED AS REQUIRED TO AVOID EXISTING UNDERGROUND STRUCTURES.

KEYED NOTES:

1. CONTRACTOR TO TERMINATE CONCRETE-ENCASED CONDUIT 5'-0" FROM UTILITY POLE. TRANSITION TO DIRECT-BURIED CONDUIT FOR THE FINAL 5 FEET LEADING TO THE POLE. AT THE BASE OF THE POLE, PROVIDE AN RGS SWEEP 90-DEGREE BEND UPWARD TO TRANSITION FROM HORIZONTAL TO VERTICAL. TRANSITION TO RIGID GALVANIZED STEEL CONDUIT UP THE UTILITY POLE.

2. OVERHEAD LINES TO EXISTING UTILITY POLE. TO BE PROVIDED AND INSTALLED BY UTILITY.

LEGEND:

CONDUIT IN ENCASED DUCTBANK

OVERHEAD LINES PROVIDED BY UTILITY

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED BPO
DRAWN BPO
CHECKED ATW
DATE JUNE 2025

carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ELECTRICAL
ELECTRICAL - SITE PLAN

VERIFY SCALES
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0 1"
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JOB NO. 203747
DRAWING NO. 57E00
SHEET NO. OF XXX

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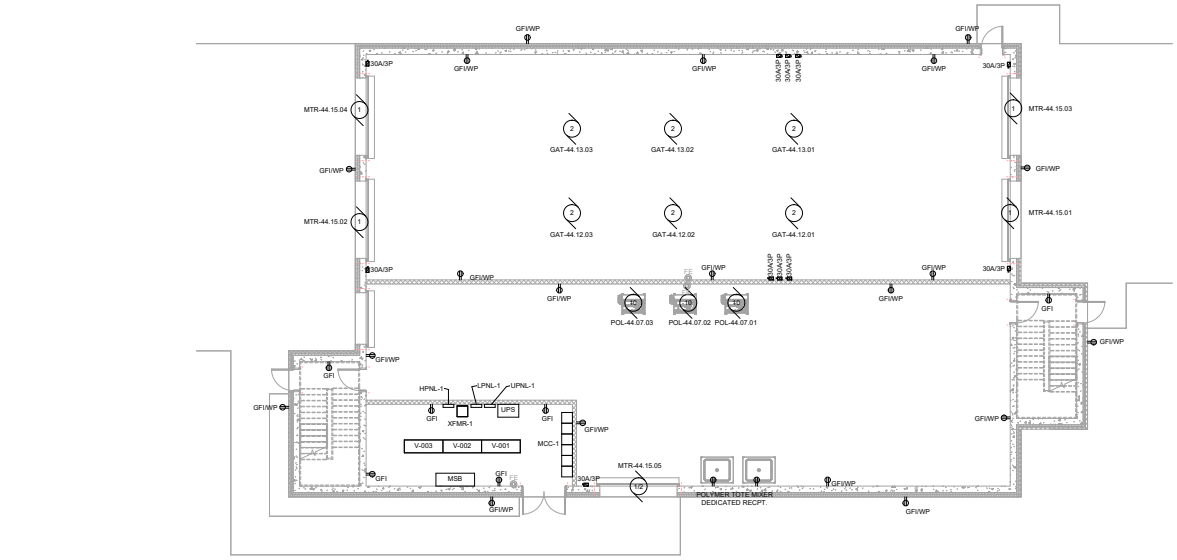
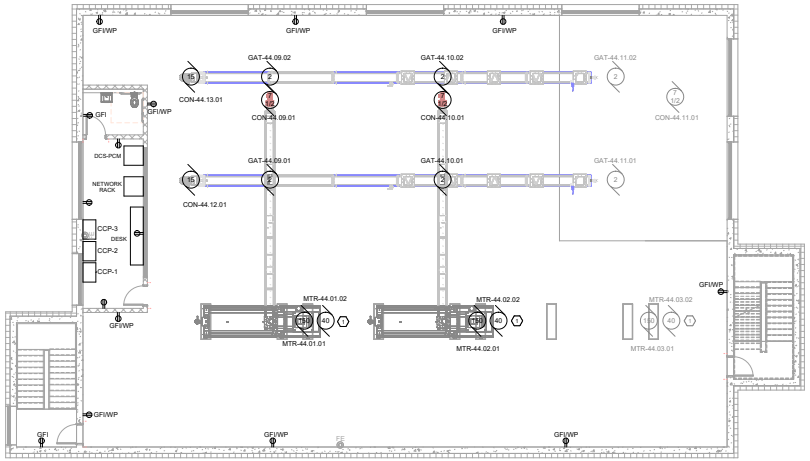


1 **PLAN**
SCALE: 1/8" = 1'-0"

| | | |

KEYED NOTES:

1. MAIN DRIVE AND BACKDRIVE ARE STACKED ON THIS SIDE OF UNIT



1 **PLAN**
SCALE: 1/8" = 1'-0"

REV	DATE	BY	DESCRIPTION
			30% DESIGN SUBMITTAL NOT FOR CONSTRUCTION
			JUNE 2025

DESIGNED BPO
DRAWN BPO
CHECKED ATW
DATE

carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ELECTRICAL
UPPER LEVEL POWER PLAN

VERIFY SCALES
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JOB NO. 203747
DRAWING NO. 57E02
SHEET NO. OF XXX

PLOT DATE: 6/27/2025 4:14:24 PM
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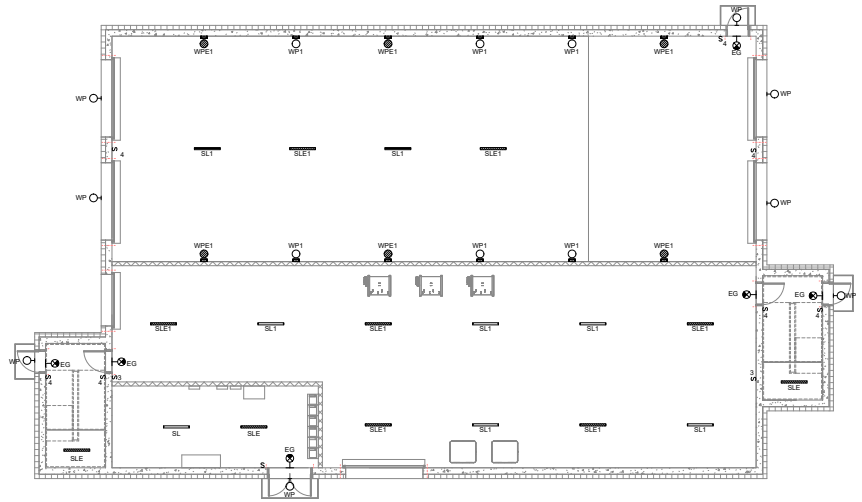
Lighting Fixture Schedule

Mark	Description	Manufacturer	Model	Lamp	Wattage	Count	Comments
CL1	LED ROUND HIGH BAY	LITHONIA	REBL ALO16-27L MD XVOLT SWW3-35 80CRI	3500K	169 W	4	HIGH BAY CEILING LIGHT
CLE1	LED ROUND HIGH BAY WITH BATTERY BACKUP	LITHONIA	REBL ALO16-27L MD XVOLT SWW3-35 80CRI WITH RBAY BLDE40WCP M4	3500K	169 W	2	HIGH BAY CEILING LIGHT WITH BATTERY BACKUP
EG	EXIT SIGN	LITHONIA	LQC-W-1-R-ELN	RED LED	9 W	9	EXIT SIGN WITH BATTERY BACKUP
SL	4'X4" STRIP LIGHT	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI	3500K	35 W	3	CONTRACTOR SELECT STRIP
SL1	4'X4" STRIP LIGHT	LITHONIA	CSVT-L48-4000LM-MVOLT-35K-80CRI	3500K	34 W	17	VAPOR TIGHT STRIP LIGHT
SLE	STRIP LIGHT WITH BATTERY BACKUP	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI-IE7WCP	3500K	35 W	8	CONTRACTOR SELECT STRIP WITH BATTERY BACKUP
SLE1	STRIP LIGHT WITH BATTERY BACKUP	LITHONIA	CSVT-L48-4000LM-MVOLT-35K-80CRI-IE7WCP	3500K	34 W	14	VAPOR TIGHT STRIP LIGHT WITH BATTERY BACKUP
WP	WALLPACK	ACUITY	ARC1LED-P3-40K-MVOLT-E4WH-DBLXD	4000K	11 W	8	EGRESS WALLPACK
WP1	WALLPACK	GOTHAM	IVO4SQCYL-SC-WW-25LM-35K-80CRI-MD-MIN10-MVOLT-ZT-L5-JBXCC-WL-LW-BR-LD-DBL	3500K	21 W	6	TRUCK LOADING WALLPACK
WPE1	WALLPACK WITH BATTERY BACKUP	GOTHAM	IVO4SQCYL-SC-WW-25LM-35K-80CRI-MD-MIN10-MVOLT-ZT-L5-JBXCC-E7WR-WL-LW-BR-LD-DBL	3500K	21 W	6	TRUCK LOADING WALLPACK WITH BATTERY BACKUP



1 **PLAN**
SCALE: 1/8" = 1'-0"

30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED BPO
DRAWN BPO
CHECKED ATW
DATE JUNE 2025

carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ELECTRICAL
LOWER LEVEL LIGHTING PLAN

VERIFY SCALES
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DRAWING NO. 57E04
SHEET NO. OF XXX

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Lighting Fixture Schedule

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SLE	STRIP LIGHT WITH BATTERY BACKUP	LITHONIA	CSS-L48-4000LM-MVOLT-40K-80CRI-IE7WCP	3500K	35 W	8	CONTRACTOR SELECT STRIP WITH BATTERY BACKUP
SLE1	STRIP LIGHT WITH BATTERY BACKUP	LITHONIA	CSVT-L48-4000LM-MVOLT-35K-80CRI-IE7WCP	3500K	34 W	14	VAPOR TIGHT STRIP LIGHT WITH BATTERY BACKUP
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WP1	WALLPACK	GOTHAM	IVO4SQCYL-SC-WW-25LM-35K-80CRI-MD-MIN10-MVOLT-ZT-L5-JBXCC-WL-LW-BR-LD-DBL	3500K	21 W	6	TRUCK LOADING WALLPACK
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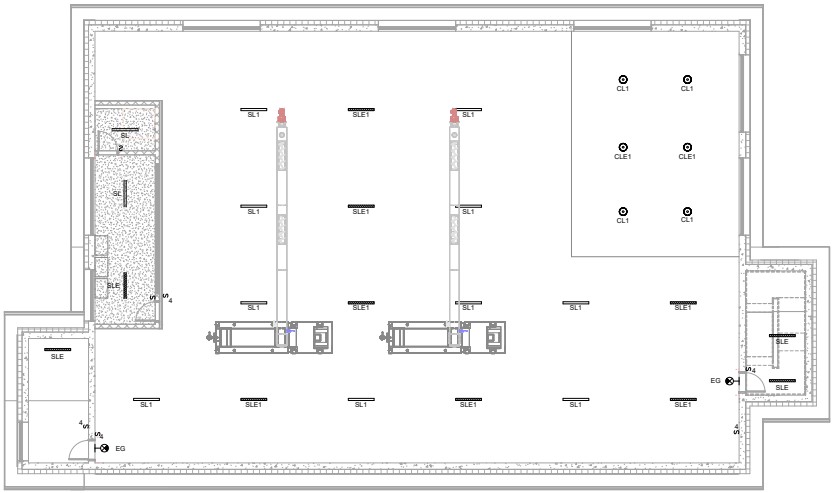

1 **PLAN**
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30% DESIGN SUBMITTAL
NOT FOR CONSTRUCTION

REV	DATE	BY	DESCRIPTION

DESIGNED BPO
DRAWN BPO
CHECKED ATW
DATE JUNE 2025

carollo
3100 WEST END AVE., STE 850
NASHVILLE, TENNESSEE 37203
PHONE (615) 386-9090

CITY OF SPRING HILL
SPRING HILL CENTRIFUGE DEWATERING PROJECT
ELECTRICAL
UPPER LEVEL LIGHTING PLAN

VERIFY SCALES
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DRAWING NO. 57E05
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CITY OF SPRING HILL

SPRING HILL CENTRIFUGE DEWATERING

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00_43_30	BID BOND (PENAL SUM FORM)
00_43_35	LIST OF EQUIPMENT MANUFACTURERS
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01_75_17	COMMISSIONING
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31_23_19	DEWATERING
31_23_22	DEWATERING
31_23_35	TRENCHING

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46_33_35	POLYMER BLENDING AND FEED EQUIPMENT: LIQUID
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CITY OF SPRING HILL

SPRING HILL CENTRIFUGE DEWATERING

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DIVISION 09 - FINISHES

SECTION NO.	**TITLE**
09_96_01	HIGH-PERFORMANCE COATINGS

DIVISION 40 - PROCESS INTEGRATION

SECTION NO.	**TITLE**
40_05_00.01	COMMON WORK RESULTS FOR GENERAL PIPING
40_05_57.24	ELECTRIC ACTUATORS

DIVISION 46 - WATER AND WASTEWATER EQUIPMENT

SECTION NO.	**TITLE**
46_05_10	COMMON WORK RESULTS FOR MECHANICAL EQUIPMENT
46_71_36	CENTRIFUGE DEWATERING EQUIPMENT

CITY OF SPRING HILL
BOARD OF MAYOR AND ALDERMEN
BOMA AGENDA NOTES
JULY 7, 2025
6:00 PM

VOTING AGENDA

CONSENT ITEMS

1. **Consider Resolution 25-153, to amend Resolution 24-229 and retain vehicle.** Purpose of the Resolution is to amend Resolution 24-229 in order to retain the 2013 Dodge Durango for Fire Department use which was previously slated to be disposed of on GovDeals. Due to the Fire Marshal's Division gaining a part-time employee in FY26 and the loss of a budgeted vehicle in the FY26 Budget, the vehicle is needed to provide a mode of transportation to inspection sites.
   Graig Temple, Fire Chief

2. **Consider Resolution 25-154, authorizing acceptance of Offer of Dedication of Road Rights-or-Way and Public Improvements shown on the existing plat for Harvest Point Phase 13, Sections B and C.** The Planning Commission recommended the acceptance of roads and utility infrastructure for Harvest Point Phase 13B & 13C at the meeting. All punch list items have been repaired to City standards and regulations. This resolution accepts the roads and infrastructure in to the City's network.
   Missy Stahl, CIP Director

3. **Consider Resolution 25-155, to authorize the purchase of a tractor and top dresser for the Parks Division through Sourcewell Contract.** The Parks Division was budgeted funds for a Kubota Tractor and Top Dresser. The equipment will be purchased through Sourcewell. Total budgeted funds for equipment in 110-44700-59421 is $95,000.00.
   Tyler Scroggins, Public Works Director

4. **Consider Resolution 25-156, to authorize the purchase of a Spring Hill Voyager Trailblazer Camera System for the Stormwater Division through Sourcewell Contract.** The Stormwater Division was budgeted for the purchase of a trailblazer camera system in the FY26 budget. Funds will come from 416-43150-59421.
   Tyler Scroggins, Public Works Director

5. **Consider Resolution 25-157, to authorize the purchase of a Petersen Knuckleboom for the Sanitation Division through Sourcewell Contract.** The Sanitation Division was budgeted for a knuckleboom in the FY26 budget. Budgeted funds in 210-43200-59411 are $609,860.00. The sourcewell contract price for the knuckleboom through CMI is $224,182.00.
   Tyler Scroggins, Public Works Director

6. **Consider Resolution 25-158, to authorize street repaving under the Annual Contracts for Fiscal Year 2026.** The FY26 paving projects were presented to TAC on May 19, 2025 and received a favorable recommendation. Total for FY26 paving is $4,262,118.30. Budgeted funds in State Street Aid (121-43190-52681 - $1,837,076.00 and Streets Division General Fund 110-43110-52681 - $3,500,000.00. Tyler Scroggins, Public Works Director

7. **Consider Resolution 25-159, to authorize the purchase of structural firefighting personal protective equipment.** Using the NPP Contract - SOURCEWELL; Firefighter PPE is needed for the recent new-hire staff, and NAFECO is the vendor who supplies our current PPE through contract. Kevin Glenn, Deputy Fire Chief

8. **Consider Resolution 25-160, to authorize the City of Spring Hill to execute Amendment A to the Joint Contract between Williamson County, TN and the City of Spring Hill, TN for the continued housing of computer servers at the Williamson County Office of Public Safety.** This continues contract for housing of computer servers at Williamson County Public Safety Office. Matt Fitterer, Mayor; Graig Temple, Fire Chief

9. **Consider Resolution 25-167, to authorize the purchase of vehicles and equipment for the Public Works Department through Sourcewell and State Contracts.** Various Public Works divisions were approved funds in the FY26 budget for the purchase of equipment and vehicles. Staff is seeking approval to purchase the vehicles and equipment attached in Exhibit A. Contingencies have been added to the quotes due to the uncertainty of availability and potential price change/increases.
Tyler Scroggins, Public Works Director

10. **Consider Resolution 25-168, to authorize street striping under the Annual Contracts for Fiscal Year 2026.** Staff presented TAC with the quote for the striping of Buckner Road on May 19, 2025 and received a favorable recommendation. City is under contract with Kerr Bros for striping and funds are budgeted in the FY26 budget in the Streets Division 110-43110-52681.
Tyler Scroggins, Public Works Director

PREVIOUS BUSINESS

1. **Consider Resolution 25-93, dissolving the Traffic Calming Program.**
(deferred from May 19, 2025) Vince Fuqua, Alderman

2. **Consider Resolution 25-94, granting Traffic Calming Program funding to the Spring Hill Police Department for the purpose of adding two to three officers dedicated to traffic calming and ensuring the safety of residents in problematic areas.**
(deferred from May 19, 2025) Vince Fuqua, Alderman

NEW BUSINESS

1. **Consider Resolution 25-161, to authorize approval of Fire Department Uniform Contract.** In April 2025 the Fire Department released an RFP to solicit responses for department issued uniforms. Following a review of those submissions, the department has selected Galls, Inc., as the vendor of Department Uniforms starting in FY26. Graig Temple, Fire Chief

2. **Consider Resolution 25-162, authorizing the mayor to sign an Employment Agreement with Carter Napier.**
Matt Fitterer, Mayor; Patrick Carter, City Attorney

3. **Consider Resolution 25-163, to authorize the mayor to sign a Memorandum of Understanding with Kings Hammer Soccer.**
Matt Fitterer, Mayor

4. **Consider Resolution 25-164, to authorize the mayor to sign a Funding Participation Agreement with SSVM Mitchum Sub LLC and 3586 KCTN LLC.** Matt Fitterer, Mayor

5. **Consider First Reading of Ordinance 25-18, to amend Section 10-102 of the Spring Hill Municipal Code regarding the keeping of backyard hens.** Updates the number of hens permitted in residential zoning districts based on property size.
Vince Fuqua, Alderman; Dara Sanders, Development Services Director

6. **Consider Resolution 25-165, to approve blanket purchase orders for fiscal year 2025-2026.**
Rebecca Holden, Finance Director

7. **Consider Resolution 25-166, to authorize water and sewer Task Order Agreements with Thomas and Hutton.**
This task order separates and accelerates the demolition and site preparation work for the PILOT project that was included in the EQ Basin and Headworks project. This adjustment is being made while changes in electrical design are being coordinated along with finalizing design of the public works relocation so we can keep the PILOT program moving forward. Dan Allen, Assistant City Administrator, GM Utilities

WORK SESSION/DISCUSSION

1. **Discussion, Buckner Lane/June Lacke Blvd. Intersection Striping.** An intersection analysis was performed by JMT and a recommended striping plan was developed. (recommended by the Transportation Advisory Committee on June 16, 2025). Missy Stahl, CIP Director and Tyler Scroggins, Public Works Director

2. **Discussion, Merrill Property along Kedron Road.** Overview of Mr. Merrill's plans for property along Kedron Road.
Derek Merril, Citizen

3. **Discussion, Resolution to award Advance Purification PILOT Design.**
Dan Allen, ACA, GM Utilities

4. **Discussion, Ordinance to amend Spring Hill Towne Crossing.** Amend the Planned Development approval to allow for more than one drive-thru facility without requiring a special use permit.
Dara Sanders, Development Services Director

5. **Discussion, Resolution for Joint Agreement with SMR.** An agreement between the City and SRM to abandon a portion of Old Port Royal right-of-way in exchange of right-of-way dedication on Jim Warren Road.
Dara Sanders, Development Services Director

6. **Discussion, TDEC ARP Grant Update.** Discuss timing and expenditures for state ARP grants. Discuss reuse PILOT procurement timeline. Dan Allen, ACA, GM Utilities

7. **Discussion, Reclamation Plant - Centrifuge Project 30% Update.** BOMA 30% milestone update. Dan Allen, ACA, GM Utilities

8. **Roundtable Discussion**