Property Information Package

Lot 0001

Tradewind Dr

McLemore Auction Company, LLC

Version 10 • November 3, 2026

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Property Facts + Source Notes

Property facts

• Location: Tradewind Dr, Columbia, TN 38401 (Lot 2, Plat Book 22, Page 540) — Source: City GIS Parcel Record
• Parcel: Maury County Tax Map 100G, Group A, Parcel 033.35 — Source: City GIS Parcel Record
• Acreage: 1.33± deed acres — Source: City GIS Parcel Record (CAMADEEDAC)
• Zoning: CD-4C, General Urban – Corridor (mixed use); 100% of parcel inside district — Source: Zoning Map Exhibit with Arterial; Zoning Arterial and Utilities Findings
• CD-4C uses: Primarily residential, retail/personal service/artisan, office, lodging and civic uses — Source: Zoning Ordinance Excerpts, Table 4.3.1-E and Table 4.3.9.A-1
• Nearest arterial: W James M Campbell Blvd (SR 50), 262 ft from lot line to centerline; CD-4C corridor ground-floor rule applies — Source: Zoning Map Exhibit with Arterial; City GIS Functional Classification layer
• Utilities: Public water, sewer, electric and natural gas per assessor record — Source: City GIS Parcel Record (WATERSEWER, ELEC, GAS)
• Water service fees: Columbia Power & Water Systems receipt No. 198124 (12/1/2023) shows $14,413 paid for the water New Service Fee on account 951-1548-01 (Old Glory Restaurant, Tradewinds Dr). The CPWS fee sheet for the same order also lists water impact fees of $25,000 and $7,500 and a $710 meter fee (sheet total $47,623); no receipt for those amounts was provided. Buyers must confirm with CPWS what has been paid and whether any credit transfers to the buyer. — Source: CPWS Water Service Fee Sheet and Receipt
• Title: Fee simple vested in S and K LLC; Fidelity National Title commitment No. 17905-26, effective October 2, 2026 — Source: Title Commitment, Schedule A
• Recorded easements: 150 ft TVA transmission line easement with a TVA metal transmission tower on the lot; 40 ft overhead electric easement; City of Columbia and second sewer line easements; plat utility and drainage easements — Source: Title Commitment, Schedule B-II; Recorded Plat P22-540
• Flood zone: Not within a designated 100-year flood zone per the recorded plat (FEMA panel 47119C0280E, April 16, 2007) — Source: Recorded Plat P22-540

Source notes

• Zoning Arterial and Utilities Findings — Explains how zoning and utilities were determined, with sources
• Zoning Map Exhibit with Arterial — City of Columbia GIS zoning, parcel and functional classification layers over aerial imagery
• City GIS Parcel Record — City of Columbia GIS Parcels feature service (Maury County CAMA data)
• Zoning Ordinance Excerpts — City of Columbia Zoning Ordinance 4400 (April 2025): Sec. 3.5, Table 4.3.1-E, Sec. 4.3.9, Table 4.3.9.A-1
• Zoning Reference: City of Columbia FLUM to Zoning Matrix — City of Columbia
• Title Commitment and recorded instruments — Law Office of K. Brian Hay, issuing agent for Fidelity National Title Insurance Company, October 8, 2026
• CPWS Water Service Fee Sheet and Receipt — Columbia Power & Water Systems fee sheet (location order 109902) and receipt No. 198124, provided by seller

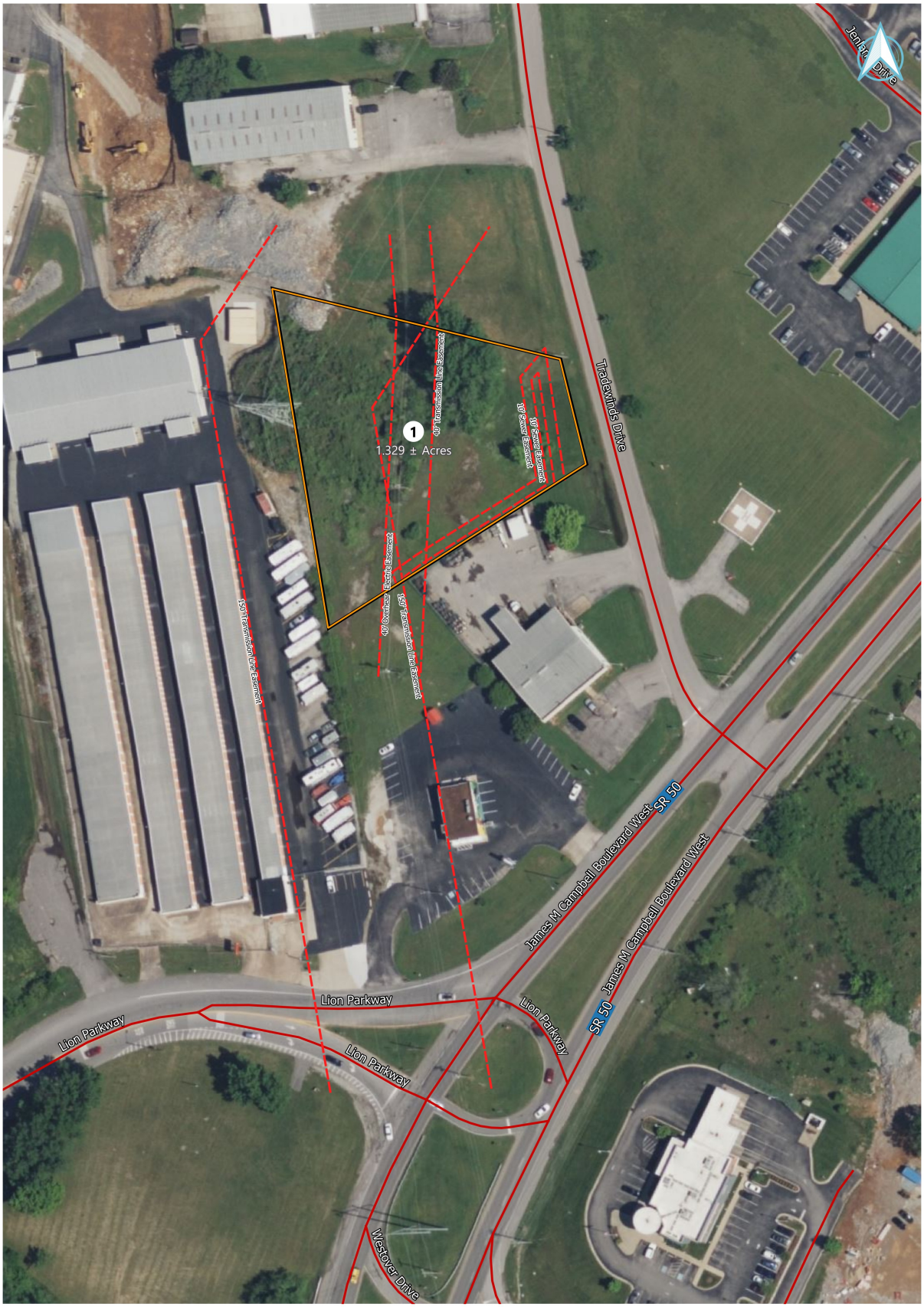
Facts are summarized from public records for bidder convenience only and are not a zoning verification letter or survey. Bidders must independently verify zoning, permitted uses, acreage, boundaries and utility service, easements with the City of Columbia and the utility providers.

Section 1

Auction Sales Map with Easements

Auction Sales Map

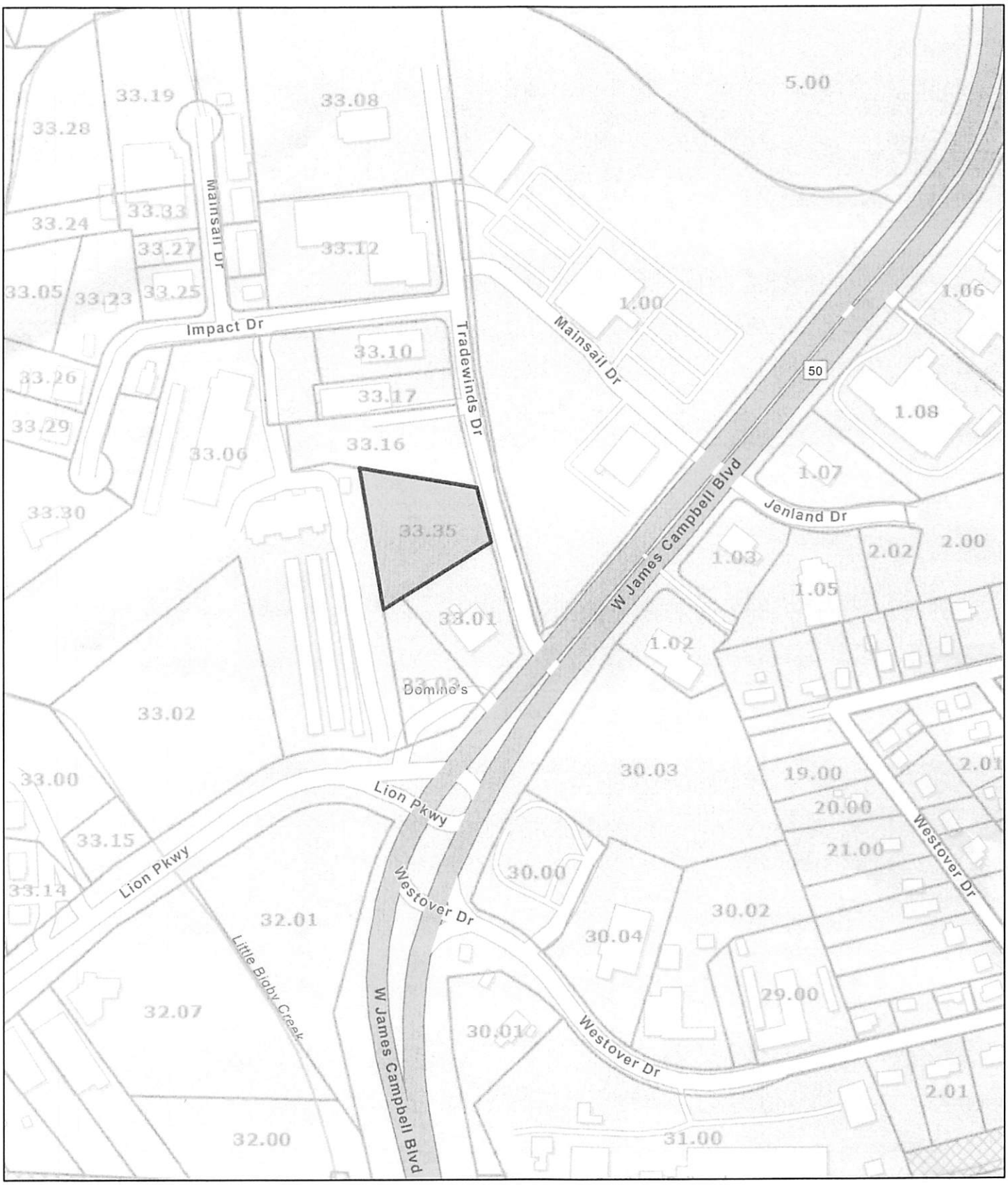
Will McLemore
McLemore Auction Company, LLC
470 Woodycrest Ave.
Nashville, TN 37210
(615) 636-9602
will@mclemoreauction.com



Section 2

Recorded Plats P22-540 P17-140 5-298

Maury County - Parcel: 100G A 033.35



Date: October 5, 2026

County: MAURY
Owner: S & K LLC
Address: TRADEWIND DR
Parcel ID: 100G A 033.35
Deeded Acreage: 1.33
Calculated Acreage: 0

1:4,514

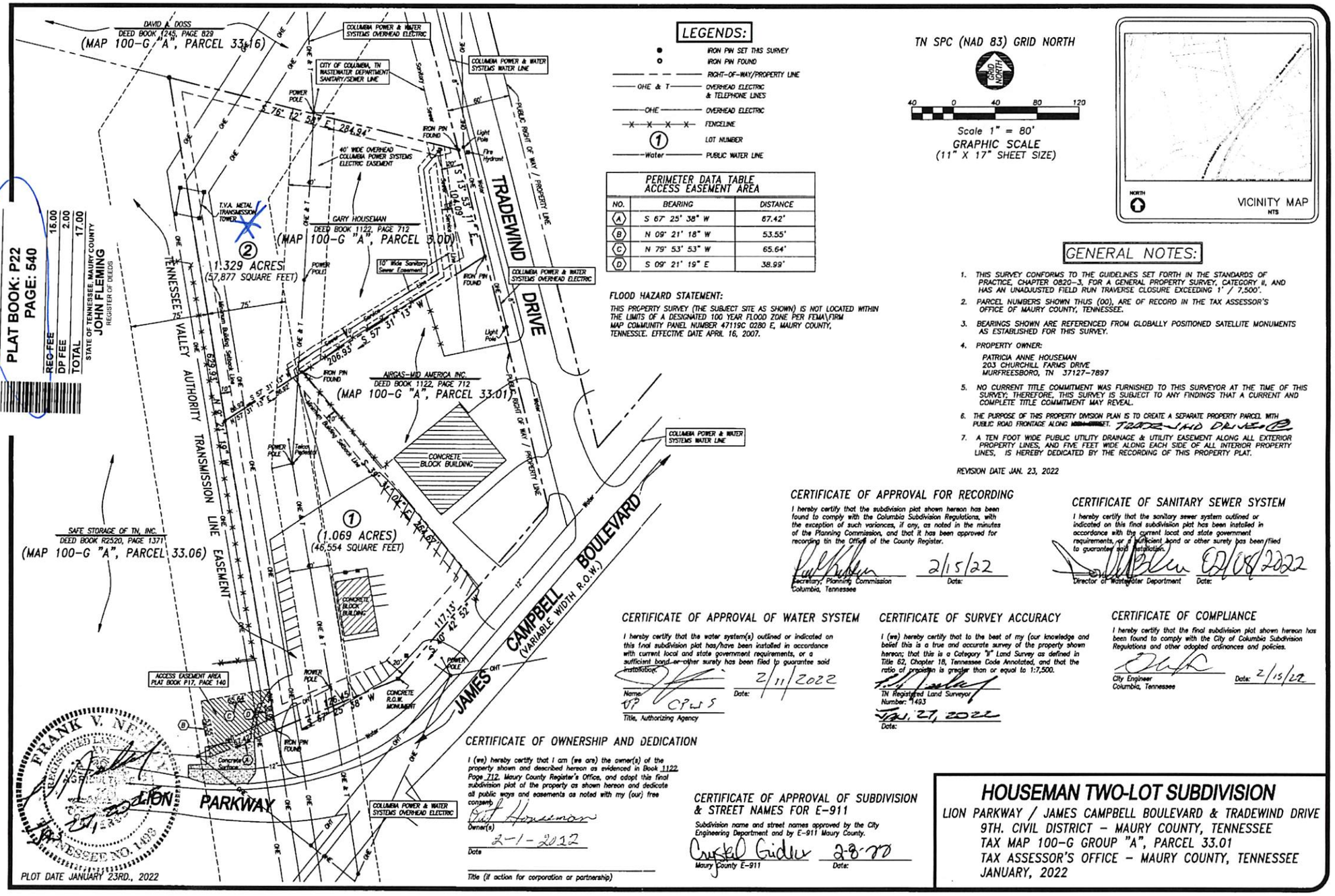
0 0.03 0.06 0.12 mi

0 0.05 0.1 0.2 km

State of Tennessee, Comptroller of the Treasury, Division of Property Assessments (DPA
OpenStreetMap co

The property lines are compiled from information maintained by your local

02/18/2022 - 03:30 PM
22003502
1 PGS:AL-PLAT
NANCY BATCH: 270619
PLAT BOOK: P22
PAGE: 540
REC FEE 16.00
DP FEE 2.00
TOTAL 17.00
STATE OF TENNESSEE, MAURY COUNTY
JOHN FLEMING
REGISTER OF DEEDS



LEGENDS:

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- OHE & T — OVERHEAD ELECTRIC & TELEPHONE LINES
- OHE — OVERHEAD ELECTRIC
- FENCELINE
- (1) LOT NUMBER
- Water — PUBLIC WATER LINE

TN SPC (NAD 83) GRID NORTH

40 0 40 80 120

Scale 1" = 80'
GRAPHIC SCALE
(11" X 17" SHEET SIZE)

PERIMETER DATA TABLE
ACCESS EASEMENT AREA

NO.	BEARING	DISTANCE
A	S 67° 25' 38" W	67.42'
B	N 09° 21' 18" W	53.55'
C	N 79° 53' 53" W	65.64'
D	S 09° 21' 19" E	38.99'

FLOOD HAZARD STATEMENT:

THIS PROPERTY SURVEY (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA\FIRM MAP COMMUNITY PANEL NUMBER 47119C 0280 E, MAURY COUNTY, TENNESSEE. EFFECTIVE DATE APRIL 16, 2007.

GENERAL NOTES:

1. THIS SURVEY CONFORMS TO THE GUIDELINES SET FORTH IN THE STANDARDS OF PRACTICE, CHAPTER 0820-3, FOR A GENERAL PROPERTY SURVEY, CATEGORY II, AND HAS AN UNADJUSTED FIELD RUN TRAVERSE CLOSURE EXCEEDING 1' / 7,500'.
2. PARCEL NUMBERS SHOWN THUS (00), ARE OF RECORD IN THE TAX ASSESSOR'S OFFICE OF MAURY COUNTY, TENNESSEE.
3. BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
4. PROPERTY OWNER:
   PATRICIA ANNE HOUSEMAN
   203 CHURCHILL FARMS DRIVE
   MURFREESBORO, TN 37127-7897
5. NO CURRENT TITLE COMMITMENT WAS FURNISHED TO THIS SURVEYOR AT THE TIME OF THIS SURVEY; THEREFORE, THIS SURVEY IS SUBJECT TO ANY FINDINGS THAT A CURRENT AND COMPLETE TITLE COMMITMENT MAY REVEAL.
6. THE PURPOSE OF THIS PROPERTY DIVISION PLAN IS TO CREATE A SEPARATE PROPERTY PARCEL WITH PUBLIC ROAD FRONTAGE ALONG [redacted] FT. TRADEWIND DRIVE.
7. A TEN FOOT WIDE PUBLIC UTILITY DRAINAGE & UTILITY EASEMENT ALONG ALL EXTERIOR PROPERTY LINES, AND FIVE FEET WIDE ALONG EACH SIDE OF ALL INTERIOR PROPERTY LINES, IS HEREBY DEDICATED BY THE RECORDING OF THIS PROPERTY PLAT.

REVISION DATE JAN. 23, 2022

CERTIFICATE OF APPROVAL FOR RECORDING

I hereby certify that the subdivision plat shown hereon has been found to comply with the Columbia Subdivision Regulations, with the exception of such variances, if any, as noted in the minutes of the Planning Commission, and that it has been approved for recording tin the Office of the County Register.

Secretary, Planning Commission
Columbia, Tennessee — Date: 2/15/22

CERTIFICATE OF SANITARY SEWER SYSTEM

I hereby certify that the sanitary sewer system outlined or indicated on this final subdivision plat has been installed in accordance with the current local and state government requirements, or a sufficient bond or other surety has been filed to guarantee said installation.

Director of Wastewater Department — Date: 02/08/2022

CERTIFICATE OF APPROVAL OF WATER SYSTEM

I hereby certify that the water system(s) outlined or indicated on this final subdivision plat has/have been installed in accordance with current local and state government requirements, or a sufficient bond or other surety has been filed to guarantee said installation.

Name: CPWS — Date: 2/11/2022
Title, Authorizing Agency

CERTIFICATE OF SURVEY ACCURACY

I (we) hereby certify that to the best of my (our knowledge and belief this is a true and accurate survey of the property shown hereon; that this is a Category "II" Land Survey as defined in Title 62, Chapter 18, Tennessee Code Annotated, and that the ratio of precision is greater than or equal to 1:7,500.

TN Registered Land Surveyor
Number: 1493
Date: Jan. 27, 2022

CERTIFICATE OF COMPLIANCE

I hereby certify that the final subdivision plat shown hereon has been found to comply with the City of Columbia Subdivision Regulations and other adopted ordinances and policies.

City Engineer
Columbia, Tennessee — Date: 2/15/22

CERTIFICATE OF OWNERSHIP AND DEDICATION

I (we) hereby certify that I am (we are) the owner(s) of the property shown and described hereon as evidenced in Book 1122 Page 712 Maury County Register's Office, and adopt this final subdivision plat of the property as shown hereon and dedicate all public ways and easements as noted with my (our) free consent.

Owner(s)
Date: 2-1-2022
Title (if action for corporation or partnership)

CERTIFICATE OF APPROVAL OF SUBDIVISION & STREET NAMES FOR E-911

Subdivision name and street names approved by the City Engineering Department and by E-911 Maury County.

Maury County E-911 — Date: 2-8-22

FRANK V. NEELY
REGISTERED LAND SURVEYOR
TENNESSEE NO. 1493

PLOT DATE JANUARY 23RD., 2022

HOUSEMAN TWO-LOT SUBDIVISION

LION PARKWAY / JAMES CAMPBELL BOULEVARD & TRADEWIND DRIVE
9TH. CIVIL DISTRICT - MAURY COUNTY, TENNESSEE
TAX MAP 100-G GROUP "A", PARCEL 33.01
TAX ASSESSOR'S OFFICE - MAURY COUNTY, TENNESSEE
JANUARY, 2022

BREWER LAND SURVEYING
612 LONGBRANCH ROAD
HOHENWALD, TN 38462
931-796-0099

CERTIFICATE OF COMPLIANCE

I HEREBY CERTIFY THAT THE SUBDIVISION PLAT SHOWN HEREON HAS BEEN FOUND TO COMPLY WITH THE COLUMBIA SUBDIVISION REGULATIONS AND OTHER ADOPTED ORDINANCES AND POLICIES.

Armond E. Harriett — ENFORCING OFFICER FOR THE SUBDIVISION REGULATIONS
MAR/26/07 — DATE

APPROVED FOR THE COLUMBIA REGIONAL PLANNING COMMISSION

3/27 2007 Patricia B. Kelly
DATE — SECRETARY

NOTES

1) ZONED MCD (MIXED COMMERCIAL DISTRICT)

2) MINIMUM BUILDING LINES
FRONT - 20'
SIDES - 10'
REAR - 20'

3) IRON PINS SET OR EXISTING ALL CORNERS.

4) ALL CULVERTS WILL BE 15" OR LARGER

5) MAILBOXES AND OTHER STRUCTURES ON A COUNTY OR STATE RIGHT-OF-WAY SHALL BE NO LARGER THAN A SINGLE 4" WOOD POST OR A SINGLE 2" DIAMETER METAL POST EMBEDDED NO MORE THAN 24" INTO THE GROUND.

6) WHEN DRIVE WAY PIPES AND CROSS DRAINS ARE CONSTRUCTED, SAID DRIVEWAY PIPES AND CROSS DRAINS FOR LIONS PARKWAY-JAMES CAMPBELL BLVD SHALL HAVE HEADWALLS WITH THE TOP OF CONCRETE NOT EXCEEDING 4" ABOVE ROAD LEVEL.

7) OWNER'S ADDRESS:
GARY HOUSEMAN
2322 LONDON AVENUE
MURFREESBORO, TN 37129

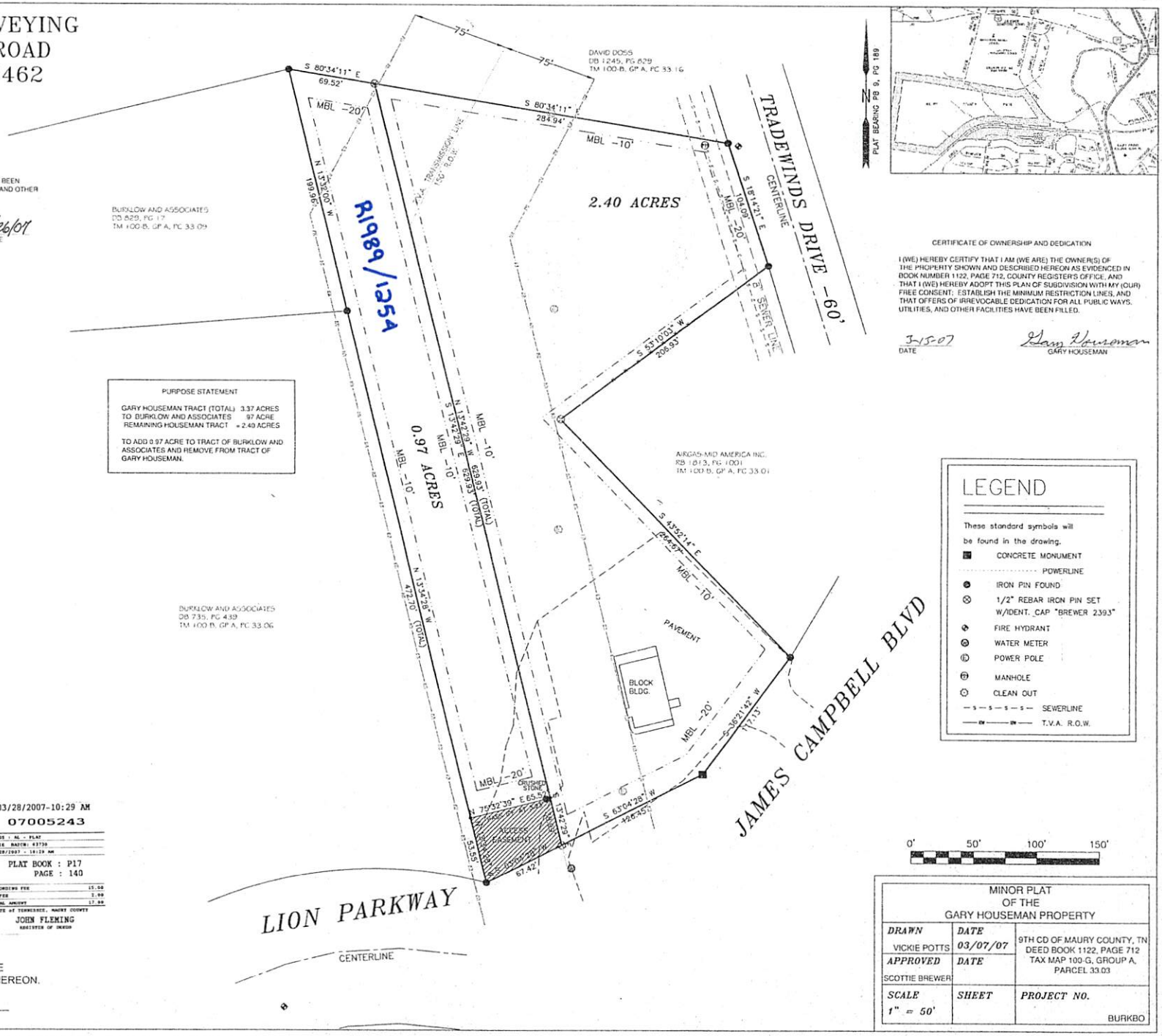
8) 10' EASEMENT ON ALL PROPERTY LINES PARALLEL AND ABUTTING PUBLIC ROADS AND A 5' EASEMENT ON ALL INTERIOR LOT LINES FOR UTILITY AND DRAINAGE EASEMENT UNLESS OTHERWISE NOTED.

9) "FEMA" FLOOD HAZARD MAP INDICATES THIS AREA IS NOT IN A FLOOD ZONE AS INDICATED ON MAP 47119C 0280 E DATED APRIL 16, 2007.

PURPOSE STATEMENT

GARY HOUSEMAN TRACT (TOTAL) 3.37 ACRES
TO BURKLOW AND ASSOCIATES .97 ACRE
REMAINING HOUSEMAN TRACT = 2.40 ACRES

TO ADD 0.97 ACRE TO TRACT OF BURKLOW AND ASSOCIATES AND REMOVE FROM TRACT OF GARY HOUSEMAN.



CERTIFICATE OF OWNERSHIP AND DEDICATION

I (WE) HEREBY CERTIFY THAT I AM (WE ARE) THE OWNER(S) OF THE PROPERTY SHOWN AND DESCRIBED HEREON AS EVIDENCED IN BOOK NUMBER 1122, PAGE 712, COUNTY REGISTER'S OFFICE, AND THAT I (WE) HEREBY ADOPT THIS PLAN OF SUBDIVISION WITH MY (OUR) FREE CONSENT; ESTABLISH THE MINIMUM RESTRICTION LINES, AND THAT OFFERS OF IRREVOCABLE DEDICATION FOR ALL PUBLIC WAYS, UTILITIES, AND OTHER FACILITIES HAVE BEEN FILLED.

3-15-07 — DATE
Gary Houseman — GARY HOUSEMAN

LEGEND

These standard symbols will be found in the drawing.

- CONCRETE MONUMENT
- POWERLINE
- IRON PIN FOUND
- 1/2" REBAR IRON PIN SET W/IDENT. CAP "BREWER 2393"
- FIRE HYDRANT
- WATER METER
- POWER POLE
- MANHOLE
- CLEAN OUT
- S — S — S — S — SEWERLINE
- TVA — TVA — T.V.A. R.O.W.

0' 50' 100' 150'

SCOTTIE BREWER
REGISTERED LAND SURVEYOR
TENNESSEE NO. 2393

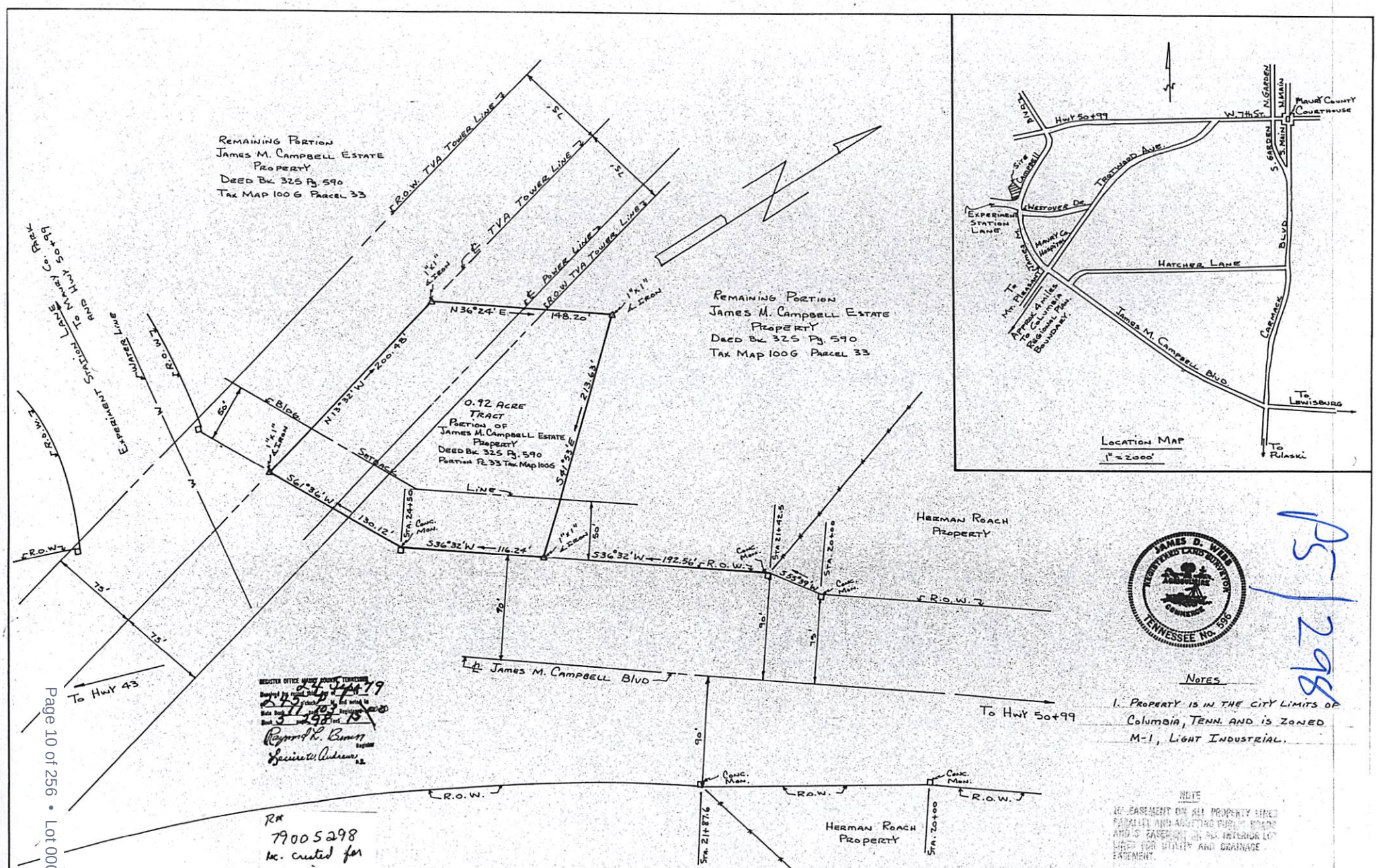
03/28/2007-10:29 AM
07005243
1 POS : AL - PLAT
BOOK: BATCH: 43730
03/28/2007 - 10:29 AM
RECORDING FEE 15.00
MF FEE 2.00
TOTAL AMOUNT 17.00
STATE OF TENNESSEE, MAURY COUNTY
JOHN FLEMING
REGISTER OF DEEDS
PLAT BOOK : P17
PAGE : 140

I HEREBY CERTIFY THIS IS A CATEGORY "1" SURVEY AND THE RATIO OF PRECISION OF THE UNADJUSTED SURVEY IS 1:10,000 AS SHOWN HEREON.

SCOTTIE G. BREWER, R.L.S. 2393

MINOR PLAT OF THE GARY HOUSEMAN PROPERTY		
DRAWN: VICKIE POTTS	DATE: 03/07/07	9TH CD OF MAURY COUNTY, TN DEED BOOK 1122, PAGE 712 TAX MAP 100-G, GROUP A, PARCEL 33.03
APPROVED: SCOTTIE BREWER	DATE:	
SCALE: 1" = 50'	SHEET:	PROJECT NO.: BURKBO

P17/140



Register Office Maury County, Tennessee
Received for record this 17th day of Sept. 1979
at 2:45 o'clock P.M. and noted in
Plat Book 3 page 298 Register
Book 3 page 298 rec'd.
Raymond K. Bumpus Register
Deputy Register

R# 79005298
Inc. created for recording

Notes

1. Property is in the City Limits of Columbia, Tenn. and is zoned M-1, Light Industrial.

Note
10' easement on all property lines parallel and adjoining public road and 5' easement on all interior lot lines for utility and drainage easement.

James D. Webb
Registered Land Surveyor
Tennessee No. 596

PS 1298

FINAL PLAT

SUBDIVISION – Minor Plat of 0.92 Acre Tract on Campbell Blvd. SECTION –

COLUMBIA

MUNICIPAL–REGIONAL PLANNING COMMISSION

TOTAL ACRES 0.92 TOTAL LOTS 1
ACRES NEW ROAD 0 MILES NEW ROAD 0
OWNER James M. Campbell Estate CIVIL DISTRICT 9th
SURVEYOR James D. Webb CLOSURE ERROR 1/5843
SCALE 1" = 50' 0 50 100 150

Dedication of Ownership and Dedication

I/We certify that I am/we are the owner(s) of the property shown and described hereon and that I/we hereby adopt this plan of subdivision with my/our free consent, establish the minimum building restriction lines, and dedicate all streets, alleys, walks, parks and other open spaces to public or private use as noted.

9/12 19 79
Date

James M. Campbell Estate by Edward J. Campbell
Owner

Certificate of Accuracy

I hereby certify that the plan shown and described hereon is a true and correct survey to the accuracy required by the Columbia Municipal-Regional Planning Commission and that the monuments have been placed as shown hereon.

9/12 19 79
Date

James D. Webb
Registered Eng. or Surveyor

Certification of the Approval of Streets and Utilities

I hereby certify (1) that streets, utilities and _____ have been installed in an acceptable manner and according to City specifications or (2) that a security bond in the amount of $_____ has been posted with the Planning Commission to assure completion of all required improvements in case of default.

17 Sept 77 19
Date

Steve Sutterland
City Engineer

Certification of the Approval of Water and Sewerage System

I hereby certify that the water supply and or sewage disposal utility system or systems installed or proposed for installation, fully meet the requirements of the Tennessee Health Department, and are hereby approved as shown.

9-21 19 79
Date

Steve Sutterland
City Engineer and/or County Sanitarian

Certificate of Approval for Recording

I hereby certify that the subdivision plat shown hereon has been found to comply with the subdivision regulations for Columbia, Tennessee, with the exception of such variances, if any, as are noted in the minutes of the Planning Commission and that it has been approved for recording in the office of the Maury Co. Register.

Sept 19 19 79

Ralph Madden
Secretary, Columbia Municipal-Regional Planning Commission

Page 10 of 256 • Lot 0001 - Tradewind Dr

Section 3

Title Commitment – Fidelity National No. 17905-26 (Corrected)

Fidelity National Title Insurance Company

ALTA COMMITMENT FOR TITLE INSURANCE
issued by
FIDELITY NATIONAL TITLE INSURANCE COMPANY

NOTICE

IMPORTANT-READ CAREFULLY: THIS COMMITMENT IS AN OFFER TO ISSUE ONE OR MORE TITLE INSURANCE POLICIES. ALL CLAIMS OR REMEDIES SOUGHT AGAINST THE COMPANY INVOLVING THE CONTENT OF THIS COMMITMENT OR THE POLICY MUST BE BASED SOLELY IN CONTRACT.

THIS COMMITMENT IS NOT AN ABSTRACT OF TITLE, REPORT OF THE CONDITION OF TITLE, LEGAL OPINION, OPINION OF TITLE, OR OTHER REPRESENTATION OF THE STATUS OF TITLE. THE PROCEDURES USED BY THE COMPANY TO DETERMINE INSURABILITY OF THE TITLE, INCLUDING ANY SEARCH AND EXAMINATION, ARE PROPRIETARY TO THE COMPANY, WERE PERFORMED SOLELY FOR THE BENEFIT OF THE COMPANY, AND CREATE NO EXTRACONTRACTUAL LIABILITY TO ANY PERSON, INCLUDING A PROPOSED INSURED.

THE COMPANY'S OBLIGATION UNDER THIS COMMITMENT IS TO ISSUE A POLICY TO A PROPOSED INSURED IDENTIFIED IN SCHEDULE A IN ACCORDANCE WITH THE TERMS AND PROVISIONS OF THIS COMMITMENT. THE COMPANY HAS NO LIABILITY OR OBLIGATION INVOLVING THE CONTENT OF THIS COMMITMENT TO ANY OTHER PERSON.

COMMITMENT TO ISSUE POLICY

Subject to the Notice; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions; and the Commitment Conditions, Fidelity National Title Insurance Company, a Tennessee Corporation (the "Company"), commits to issue the Policy according to the terms and provisions of this Commitment. This Commitment is effective as of the Commitment Date shown in Schedule A for each Policy described in Schedule A, only when the Company has entered in Schedule A both the specified dollar amount as the Proposed Amount of Insurance and the name of the Proposed Insured.

If all of the Schedule B, Part I-Requirements have not been met within 90 after the Commitment Date, this Commitment terminates and the Company's liability and obligation end.

FIDELITY NATIONAL TITLE INSURANCE COMPANY

By: 

Michael J. Nolan
President

ATTEST: 

Marjorie Nemzura
Secretary

This page is only a part of a 2021 ALTA Commitment for Title Insurance issued by Fidelity National Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions; and a counter-signature by the Company or its issuing agent that may be in electronic form.

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AMERICAN LAND TITLE ASSOCIATION

COMMITMENT CONDITIONS

1. DEFINITIONS
   a. "Discriminatory Covenant": Any covenant, condition, restriction, or limitation that is unenforceable under applicable law because it illegally discriminates against a class of individuals based on personal characteristics such as race, color, religion, sex, sexual orientation, gender identity, familial status, disability, national origin, or other legally protected class.
   b. "Knowledge" or "Known": Actual knowledge or actual notice, but not constructive notice imparted by the Public Records.
   c. "Land": The land described in Item 5 of Schedule A and improvements located on that land that by State law constitute real property. The term "Land" does not include any property beyond that described in Schedule A, nor any right, title, interest, estate, or easement in any abutting street, road, avenue, alley, lane, right-of-way, body of water, or waterway, but does not modify or limit the extent that a right of access to and from the Land is to be insured by the Policy.
   d. "Mortgage": A mortgage, deed of trust, trust deed, security deed, or other real property security instrument, including one evidenced by electronic means authorized by law.
   e. "Policy": Each contract of title insurance, in a form adopted by the American Land Title Association, issued or to be issued by the Company pursuant to this Commitment.
   f. "Proposed Amount of Insurance": Each dollar amount specified in Schedule A as the Proposed Amount of Insurance of each Policy to be issued pursuant to this Commitment.
   g. "Proposed Insured": Each person identified in Schedule A as the Proposed Insured of each Policy to be issued pursuant to this Commitment.
   h. "Public Records": The recording or filing system established under State statutes in effect at the Commitment Date under which a document must be recorded or filed to impart constructive notice of matters relating to the Title to a purchaser for value without Knowledge. The term "Public Records" does not include any other recording or filing system, including any pertaining to environmental remediation or protection, planning, permitting, zoning, licensing, building, health, public safety, or national security matters.
   i. "State": The state or commonwealth of the United States within whose exterior boundaries the Land is located. The term "State" also includes the District of Columbia, the Commonwealth of Puerto Rico, the U.S. Virgin Islands, and Guam.
   j. "Title": The estate or interest in the Land identified in Item 3 of Schedule A.

2. If all of the Schedule B, Part I-Requirements have not been met within the time period specified in the Commitment to Issue Policy, this Commitment terminates and the Company's liability and obligation end.

3. The Company's liability and obligation is limited by and this Commitment is not valid without:
   a. the Notice;
   b. the Commitment to Issue Policy;
   c. the Commitment Conditions;
   d. Schedule A;
   e. Schedule B, Part I-Requirements; and
   f. Schedule B, Part II-Exceptions.

4. COMPANY'S RIGHT TO AMEND
   The Company may amend this Commitment at any time. If the Company amends this Commitment to add a defect, lien, encumbrance, adverse claim, or other matter recorded in the Public Records prior to the Commitment Date, any liability of the Company is limited by Commitment Condition 5. The Company is not liable for any other amendment to this Commitment.

5. LIMITATIONS OF LIABILITY
   a. The Company's liability under Commitment Condition 4 is limited to the Proposed Insured's actual expense incurred in the interval between the Company's delivery to the Proposed Insured of the Commitment and the delivery of the amended Commitment, resulting from the Proposed Insured's good faith reliance to:
      i. comply with the Schedule B, Part I-Requirements;

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AMERICAN LAND TITLE ASSOCIATION

ii. eliminate, with the Company's written consent, any Schedule B, Part II-Exceptions; or
iii. acquire the Title or create the Mortgage covered by this Commitment.

b. The Company is not liable under Commitment Condition 5.a. if the Proposed Insured requested the amendment or had Knowledge of the matter and did not notify the Company about it in writing.

c. The Company is only liable under Commitment Condition 4 if the Proposed Insured would not have incurred the expense had the Commitment included the added matter when the Commitment was first delivered to the Proposed Insured.

d. The Company's liability does not exceed the lesser of the Proposed Insured's actual expense incurred in good faith and described in Commitment Condition 5.a. or the Proposed Amount of Insurance.

e. The Company is not liable for the content of the Transaction Identification Data, if any.

f. The Company is not obligated to issue the Policy referred to in this Commitment unless all of the Schedule B, Part I-Requirements have been met to the satisfaction of the Company.

g. The Company's liability is further limited by the terms and provisions of the Policy to be issued to the Proposed Insured.

6. LIABILITY OF THE COMPANY MUST BE BASED ON THIS COMMITMENT; CHOICE OF LAW AND CHOICE OF FORUM

a. Only a Proposed Insured identified in Schedule A, and no other person, may make a claim under this Commitment.

b. Any claim must be based in contract under the State law of the State where the Land is located and is restricted to the terms and provisions of this Commitment. Any litigation or other proceeding brought by the Proposed Insured against the Company must be filed only in a State or federal court having jurisdiction.

c. This Commitment, as last revised, is the exclusive and entire agreement between the parties with respect to the subject matter of this Commitment and supersedes all prior commitment negotiations, representations, and proposals of any kind, whether written or oral, express or implied, relating to the subject matter of this Commitment.

d. The deletion or modification of any Schedule B, Part II-Exception does not constitute an agreement or obligation to provide coverage beyond the terms and provisions of this Commitment or the Policy.

e. Any amendment or endorsement to this Commitment must be in writing and authenticated by a person authorized by the Company.

f. When the Policy is issued, all liability and obligation under this Commitment will end and the Company's only liability will be under the Policy.

7. IF THIS COMMITMENT IS ISSUED BY AN ISSUING AGENT

The issuing agent is the Company's agent only for the limited purpose of issuing title insurance commitments and policies. The issuing agent is not the Company's agent for closing, settlement, escrow, or any other purpose.

8. PRO-FORMA POLICY

The Company may provide, at the request of a Proposed Insured, a pro-forma policy illustrating the coverage that the Company may provide. A pro-forma policy neither reflects the status of Title at the time that the pro-forma policy is delivered to a Proposed Insured, nor is it a commitment to insure.

9. CLAIMS PROCEDURES

This Commitment incorporates by reference all Conditions for making a claim in the Policy to be issued to the Proposed Insured. Commitment Condition 9 does not modify the limitations of liability in Commitment Conditions 5 and 6.

10. CLASS ACTION

ALL CLAIMS AND DISPUTES ARISING OUT OF OR RELATING TO THIS COMMITMENT, INCLUDING ANY SERVICE OR OTHER MATTER IN CONNECTION WITH ISSUING THIS COMMITMENT, ANY BREACH OF A COMMITMENT PROVISION, OR ANY OTHER CLAIM OR DISPUTE ARISING OUT OF OR RELATING TO THE TRANSACTION GIVING RISE TO THIS COMMITMENT, MUST BE BROUGHT IN AN INDIVIDUAL CAPACITY. NO PARTY MAY SERVE AS PLAINTIFF, CLASS MEMBER, OR PARTICIPANT IN ANY CLASS OR REPRESENTATIVE PROCEEDING. ANY POLICY ISSUED PURSUANT TO THIS COMMITMENT WILL CONTAIN A CLASS ACTION CONDITION.

11. ARBITRATION

The Policy contains an arbitration clause. All arbitrable matters when the Proposed Amount of Insurance is $2,000,000 or less shall be arbitrated at the request of the Proposed Insured or the Company. All arbitrable matters when the Proposed Amount of Insurance is in excess of $2,000,000 shall be arbitrated only when agreed to by both the Company and the Proposed Insured. Arbitration pursuant to this Commitment and under the Rules in effect on the date the demand for arbitration is made or, at the option of the Proposed Insured, the Rules in effect at Date of Commitment shall be binding upon the parties. The award may include attorneys' fees only if the laws of the state in which the Land is located permit a court to award attorneys' fees to a prevailing party. Judgment upon the award rendered by the Arbitrator(s) may be entered in any court of competent jurisdiction. The law of the situs of the Land shall apply to an arbitration under the Title Insurance Arbitration Rules.

This page is only a part of a 2021 ALTA Commitment for Title Insurance issued by Fidelity National Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions; and a counter-signature by the Company or its issuing agent that may be in electronic form.

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AMERICAN LAND TITLE ASSOCIATION

may be arbitrated at the election of either the Company or the Proposed Insured as the exclusive remedy of the parties. A Proposed Insured may review a copy of the arbitration rules at http://www.alta.org/arbitration.

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AMERICAN LAND TITLE ASSOCIATION

Fidelity National Title Insurance Company

Transaction Identification Data, for which the Company assumes no liability as set forth in Commitment Condition 5.e.:

Issuing Agent:	Law Office of K. Brian Hay
Issuing Office:	104 West 6th Street, Suite 200, Columbia, TN 38401
Issuing Office's ALTA® Registry ID:	1230840
Loan ID No.:	
Commitment No.:	17905-26
Issuing Office File No.:	17905-26
Property Address:	Tradewind Drive, Columbia, TN 38401
Revision No.:	

SCHEDULE A

1. Commitment Date: October 2, 2026 at 08:00 AM
2. Policy to be issued:
   a. ALTA Owner's Policy (07/01/21)
   Proposed Insured: TBD
   Proposed Amount of Insurance:
   The estate or interest to be insured: Fee Simple
3. The estate or interest in the Land at the Commitment Date is: Fee Simple
4. The Title is, at the Commitment Date, vested in: S and K LLC, a Tennessee limited liability company.
5. The Land is described as follows:

   SEE EXHIBIT A ATTACHED HERETO

LAW OFFICE OF K. BRIAN HAY

By: _____
K. Brian Hay, Attorney

This page is only a part of a 2021 ALTA Commitment for Title Insurance issued by Fidelity National Title Insurance Company. This Commitment is not valid without the Notice; the Commitment to Issue Policy; the Commitment Conditions; Schedule A; Schedule B, Part I-Requirements; Schedule B, Part II-Exceptions; and a counter-signature by the Company or its issuing agent that may be in electronic form.

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AMERICAN LAND TITLE ASSOCIATION

Fidelity National Title Insurance Company

SCHEDULE B, PART I - Requirements

Commitment No.: 17905-26

File No.: 17905-26

All of the following Requirements must be met:

1. The Proposed Insured must notify the Company in writing of the name of any party not referred to in this Commitment who will obtain an interest in the Land or who will make a loan on the Land. The Company may then make additional Requirements or Exceptions.
2. Pay the agreed amount for the estate or interest to be insured.
3. Pay the premiums, fees, and charges for the Policy to the Company.
4. Documents satisfactory to the Company that convey the Title or create the Mortgage to be insured, or both, must be properly authorized, executed, delivered, and recorded in the Public Records.
5. Properly execute an "Owner's Affidavit" in a form satisfactory to the undersigned.
6. Satisfactory evidence that no "visible commencement of operations" has taken place pursuant to T.C.A. §§ 66-11-101, et seq., as most recently amended. If such evidence is unavailable, then it shall be necessary to file a "notice of completion" in accordance with T.C.A. § 66-11-143, as most recently amended.
7. Properly execute and record a general warranty deed from S and K LLC, a Tennessee limited liability company, without any intervening rights in favor of TBD.
8. Furnish the following: (a) a copy of the Operating Agreement for S and K LLC, and any amendments, to confirm the identity of those persons authorized to execute the documents necessary for the transaction; (b) Certificate of Existence from the Secretary of State in the state of formation; (c) Affidavit from Manager/Member authorizing the transaction and confirming that there are no amendments, modifications, etc. or that any amendments/modifications are attached to the affidavit. NOTE: The "active" status of said entity has been verified with the Tennessee Secretary of State's office.
9. Year 2026 Maury County, Tennessee real property taxes HAVE NOT been paid in the amount of $1,092.00. Receipt #46278. Date paid: N/A. Tax Map-Parcel #100G-A-33.35. All prior year real property taxes have been paid.
10. Year 2025 City of Columbia, Tennessee real property taxes HAVE been paid in the amount of $549.00. Receipt #18148. Date paid: October 16, 2025. Tax Map-Parcel #100G-A-33.35. All prior year real property taxes have been paid.

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SCHEDULE B, PART II - Exceptions

Some historical land records contain Discriminatory Covenants that are illegal and unenforceable by law. This Commitment and the Policy treat any Discriminatory Covenant in a document referenced in Schedule B as if each Discriminatory Covenant is redacted, repudiated, removed, and not republished or recirculated. Only the remaining provisions of the document will be excepted from coverage.

The Policy will not insure against loss or damage resulting from the terms and conditions of any lease or easement identified in Schedule A, and will include the following Exceptions unless cleared to the satisfaction of the Company:

1. 2027 and subsequent years Maury County, Tennessee real property taxes and/or assessments which constitute a lien upon said real property until paid. If improvements are completed after January 1 of any year, the law requires supplemental assessment for the year in which improvements are completed as defined by statute. We assume no liability for taxes assessed by correction pursuant to the provisions of Section 67-5-603, et seq., Tenn. Code Ann.
2. 2026 and subsequent years City of Columbia, Tennessee real property taxes and/or assessments which constitute a lien upon said real property until paid. If improvements are completed after January 1 of any year, the law requires supplemental assessment for the year in which improvements are completed as defined by statute. We assume no liability for taxes assessed by correction pursuant to the provisions of Section 67-5-603, et seq., Tenn. Code Ann.
3. Subject to any and all matters appearing on map of record in Plat Book P22, page 540 in the Maury County, Tennessee Register of Deeds office, including but not limited to TVA transmission tower and overhead electric.
4. Subject to any and all matters appearing on maps of record in Plat Book P17, page 140 and Plat Book 5, page 298 in the Maury County, Tennessee Register of Deeds office.
5. Covenants, conditions, restrictions, easements or servitudes of record in Book 325 at page 590 in the Maury County, Tennessee Register of Deeds office, but deleting any covenant, condition or restriction indicating a preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin to the extent such covenants, conditions or restrictions violate 42 USC 3604(c).
6. Easement in favor of City of Columbia, TN for the purpose of sewer line of record in Book 375 at page 298 in the Maury County Register of Deeds office.
7. Easement in favor of USA for the purpose of transmission line of record in Book 217 at page 575 in the Maury County Register of Deeds office.
8. Easement in favor of the University of Tennessee for the purpose of sewer line of record in Book 403 at page 108 in the Maury County Register of Deeds office.
9. Any inaccuracy in the area, square footage, or acreage of land described in PROPERTY DESCRIPTION or attached plat, if any. The Company does not insure the area, square footage, or acreage of the land.

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AMERICAN LAND TITLE ASSOCIATION

EXHIBIT A

Commitment No.: 17905-26

File No.: 17905-26

SITUATE in the NINTH (9TH) Civil District of Maury County, Tennessee and being more particularly described as follows:

Lot 2, containing 1.329 acres, of the Plan of Houseman Two-Lot Subdivision, as shown by a map of record in Plat Book P22 at page 540 in the Maury County, Tennessee Register of Deeds office, which is incorporated herein by reference for a more complete property description.

BEING the same property conveyed to S and K LLC, a Tennessee limited liability company. by warranty deed from Patricia Anne Houseman and Wendy H. Lancaster, Co-Trustees of the Gary Houseman Family Trust dated August 23, 2023 of record in Book R2942 at page 405 in the Maury County, Tennessee Register of Deeds office.

Tax Parcel #100G-A-33.35

The property address and/or tax parcel identification number shown herein are provided solely for informational purposes, without warranty as to accuracy or completeness and are not hereby insured.

Section 4

Title Exception 5 – 1957 Deed with Use Restrictions Book 325 Page 590

MAURY FARMERS COOPERATIVE DEED

TO

JAMES M. CAMPBELL ET UX

For and in consideration of the sum of Forty-seven Thousand Five Hundred ($47,500.00) Dollars of which the sum of Twenty-Two Thousand ($22,000.00) Dollars is cash in hand paid, the receipt thereof being acknowledged, and the balance evidenced by a promissory note in the sum of $25,500.00 of even date herewith, due and payable six months from date Maury Farmers Cooperative, a Corporation organized and existing under the laws of the State of Tennessee and having its principal place of business in Maury County, Tennessee, has bargained and sold and does by these presents sell, transfer and convey unto James M. Campbell and wife, Pauline Due Campbell, their heirs and assigns, in fee simple forever, a tract or parcel of land lying and being in the Ninth Civil District of Maury County, Tennessee, and fully described by metes and bounds as follows:

Beginning at the most Easterly Northeast corner of the herein described tract, said point being the Northwest corner of the Westover Park Subdivision; thence with Roach South 74 deg 30' west 351.8 feet to a post; thence with same North 19 deg 7' west 664 feet to a post; thence with same and rockwall North 11 deg West 922.3 feet to a post at end of rockwall containing in all 962.3 feet to the center of little Bigby Creek; thence with Armstrong and center of said creek; its meanderings are as follows:

South 86½ deg West 213 feet; thence South 81½ deg West 200 feet; thence South 74½ deg West 200 feet, thence South 65 deg 50' West 205 feet, thence South 60½ deg West 71 feet, thence South 34 deg West 112 feet, thence South 8 deg 15' West 338 feet, thence South 17 deg West 200 feet; thence South 20½ deg West 210 feet; thence South 4½ deg East 422 feet; thence South 25 deg East 212 feet; thence South 40 deg East 111 feet; thence leaving center of said creek and 4-H Club property South 7½ deg East 474.2 feet to a post; thence South 82½ deg West 12.7 feet to a post; thence South 8 deg 35' East 104.5 feet; thence South 13 deg 35' West 64.3 feet; thence South 24 deg 50' West 69.1 feet to a post, thence South 77 deg 10' West 141.5 feet to a post; thence South 58 deg West 51.1 feet to a post, thence North 31 deg 11' west 46.1 feet to an iron pin, thence South 50 deg 39' West 222.2 feet to an iron pin; thence South 4 deg 52' East 47.9 feet to a point in center of road; thence with center of road, South 80 deg 25' East 54 feet to an iron pin on outside of road curve; thence with center of said road South 11 deg 44' East 201.7 feet to a point in center of Railroad on the railroad trussel; thence with the center line of Railroad North 87 deg 06' east 1556.26 feet to a point in the center of the Railroad; thence leaving the Railroad and with Maury Farmers Cooperative, North 13 deg 02' West 279.70 feet to a stake on North side of proposed 50 foot road; thence with North margin of road North 86 deg 03' East 348.85 feet to P.T., of a curve; (thence with a 6 deg 10' curve with a central angle of 13 deg 03' right and a length of 211.80 feet) North 82 deg 58' East 100.00 feet to a point; thence North 79 deg 31½' East 111.8 feet to an I.P. (P.C. of curve); thence North 73 deg East 46.14 feet to an I.P., Irwin's Southwest corner; thence with

I DECLARE that the true and lawful holder of that note for $25,500 the claim secured by the instrument within recorded as is evidenced by the note for $25,500 due 6 mos. and hereby acknowledge satisfaction thereof, and discharge of the lien securing the same. This 11 day of Jan. 19 61

REGISTER: Maury Farmers Cooperative

By [illegible]

James M. Campbell, par-

Irwin's west line North 17 deg West 300.0 feet to an I.P; thence with same North 73 deg East 194.2 feet to a point in rockwall, said point being a point in west line of Westover Park Subdivision (said point is north 25 deg west 650.95 feet from center line of Railroad and Southeast corner of Westover Park Subdivision); thence with west line of Westover Park Subdivision North 25 deg west 628.15 feet to the beginning containing 87.75 acres.

Being a portion of the property conveyed to Maury Farmers Cooperative by a deed of record in the Register's Office of Maury County, Tennessee in Book 287 page 443.

This conveyance is made subject to all visible easements over all or any part of the above described property, a sewer line and water line, the location of both being known to Grantor herein; public roads across or abutting on the above desfribed land and the easement and right of way of L&N Railroad along the south boundary of the above described property; the rights, title and interest if any, of third persons in and to the easements and/or rights of way.

To have and to hold unto James M. Campbell and wife, Pauline Due Campbell, their heirs and assigns in fee simple forever, together with all rights, titles, easements, appurtenances and hereditaments thereunto belonging and pertaining.

Maury Farmers Cooperative covenants with said James M. Campbell and wife, Pauline Due Campbell, that it is lawfully seized and possessed of the property conveyed hereby subject to the easements hereinabove mentioned, has a good and legal right to convey same and that it is unencumbered; and does further covenant and bind itself, its successors and assigns to warrant and forever defend the title thereto unto James M. Campbell and wife Pauline Due Campbell, their heirs and assigns against the lawful claims of all persons whomsoever.

For the consideration hereinabove stated, Maury Farmers Cooperative does herewith dedicate to public use a strip of land fifty feet in width adjacent to and along the south boundary of the land hereby conveyed as follows:

This fifty foot strip ties in with Westover

Drive at the point where it enters the east boundary line of Grantors property. It begins at the southeast corner of the lot conveyed by Maury Farmers Cooperative to Orris Irwin and is a strip fifty feet wide adjoining and south of the south boundary line of the Orris Irwin property and the south boundary line of the property hereby conveyed for a distance of 837 feet; this being a fifty foot strip running from the west end of Westover Drive to the east boundary line of TVA's transmission line right of way, which is more fully described in a conveyance of record in the Register's Office of Maury County, Tennessee, in Book 217 page 575.

The property conveyed hereby is conveyed with the following restrictions which run with the land:

At no time shall any lots fronting on the north side of the above described road-way dedicated to public use, running from Westover Drive westerly along the south boundary line of the property be used as a junk yard, a stock barn or pens, or uses that cause obnixious or offensive odors or are a nuisance in the law; this restriction to apply also for a distance of 100 feet north of said dedicated road-way at all points in the event the property is not subdivided into lots fronting on said road-way. This restrictive use is a covenant running with the land.

The unpaid portion of the purchase price, $25,500.00, is evidenced by a purchase money note due and payable on or before six months from the date of this instrument and bears interest from date at the rate of 6% per annum until paid. A lien is expressly retained against the property conveyed hereby to secure and make certain the payment of said purchase money note.

Taxes for 1957 will be paid by the Grantee.

This conveyance is made pursuant to a Resolution unanimously passed by the Board of Directors of Maury Farmers Cooperative at a regular meeting of the Board of Directors held at the office of the Company on Thursday January 17, 1957, in which Resolution the conveyance of the hereinabove described property was authorized and the Preseident and Secretary of the Board directed to execute this deed on behalf of said Maury Farmers Cooperative.

IN WITNESS, the undersigned have executed this instrument on behalf of said Maury Farmers Cooperative on this the 26 day of January, 1957.

MAURY FARMERS COOPERATIVE

BY Manson Morrow
President

N. J. Stanford
SECRETARY

State of Tennessee
Maury County

Personally appeared before me, the undersigned, a Notary Public in and for the above county and state, Manson Morrow and N. J. Stanford, personally known to me, who being by me duly sworn, did state that they are the President and Secretary, respectively, of Maury Farmers Cooperative, a Corporation, the bargainor, that the seal affixed to the within instrument is the corporate seal of said Maury Farmers Cooperative, and that the within instrument was signed and s ealed in behalf of said corporation by authority of Its Board of Directors, and the said Manson Morrow and N. J. Stanford acknowledged said instrument to be the free act and deed of said Maury Farmers Cooperative.

Witness my hand and seal at Columbia, Tennessee, on this the 26 day of January, 1957.

Vashti Sudbury
Notary Public

My commission expires: 4/10/59

I hereby certify that I registered the above instrument this 29 day of Jan 1957 at 11:45 A.M. Register

U.S. REVENUE STAMPS affixed to this instrument Amt. $2.25 cts.

REGISTER OFFICE MAURY COUNTY, TENNESSEE
Received for record this 29 day of Jan 1957
at 11:45 o'clock A.M. and noted in
Note Book 8 page 319 Registered in
Book 325 page 593 Feb 3 1957
Register D.C.

Prierson & Quesenbery
Attorneys
Columbia, Tenn

Maury Farmers Cooperative
To
DEED
James M. Campbell and wife

Section 5

Title Exception 6 – City of Columbia Sewer Easement Book 375 Page 298

Easement #1
Contract F

In consideration of the sum of $ 7,500.00, cash in hand paid, the receipt of which is hereby acknowledged, I or we, Pauline Due Campbell & James M. Campbell, do hereby grant and convey unto the City of Columbia, Tennessee, a municipal corporation, a perpetual sewer easement for the purposes hereinafter described, on, under and across the following described real estate, situated in the Ninth Civil District of Maury County, Tennessee, and in the _____ Ward of the City of Columbia, to wit:

Beginning at a point in Campbell's southern boundary being L & N north right-of-way, approximately 830' from southwest corner of said property and Experiment Lane. Running N. 2° 15' W. approximately 35' to a point, thence N. 29° 28' W. approximately 400' to a point, thence N. 22° 28' W. approximately 400' to a point, thence N. 24° 58' W. approximately 755' to a point, thence N. 4° 2' E. approximately 390' to a point, thence N. 14° 2' approximately 400' to a point, thence N. 38° 2' E. approximately 400' to a point, thence N. 70° 49' E. approximately 400' to a point, thence N. 84° 49' E. approximately 240' to a rock wall being said property's east boundary and Herman Roach's west boundary.

Being the same property conveyed to the grantors in this instrument by deed registered in Book 325, Page 590, Register's Office of Maury County, Tennessee.

There shall be a temporary or construction easement 50 feet in width and a permanent easement 20 feet in width for the purpose of laying, constructing, maintaining, repairing and replacing a trunk sewer line across the above described property. The location of said easement and said sewer line shall be in accordance with the plans, specifications and survey now on file in the office of the City Engineer at the City Hall in Columbia, Tennessee.

The grantee shall have all necessary rights of ingress and egress for the above stated purposes, but shall be responsible for any damages they may do to fences, or other structures and shall be required to repair or replace such damages. The City of Col

construction or after repairs and maintenance in a reasonable manner, but shall not be required to re-sod. The City shall also be liable to the grantors for any and all damage done off of and outside of this easement.

The grantors shall not be permitted to place any buildings or other obstruction on this easement so as to interfere with the purposes for which this easement is given.

Witness our hands, this the 15th day of September, 1960.

James M. Campbell

Pauline Due Campbell

STATE OF TENNESSEE)
)
COUNTY OF MAURY)

Before me, Thomas Bloach, a Notary Public in and for the State and County aforesaid, personally appeared, James M. Campbell & Pauline Due Campbell, the within named bargainor, with whom I am personally acquainted, who acknowledged that they executed the within instrument for the purposes therein contained.

My commission expires October 16-1962.

Witness my hand and official seal, at office in Maury County, Tennessee, this the 15 day of September, 1960.

Thomas Bloach
Notary Public

NOTARY PUBLIC MAURY COUNTY, TENNESSEE

REGISTER OFFICE MAURY COUNTY, TENNESSEE
Received for record this 21 day of Oct 1960
at 3:30 o'clock P.M. and noted in
Note Book 9 Page 16 Register's
Book page Fee $ 2.50
Pauline Due Campbell

James M. Campbell
to
Easement
Columbia
Tenn.

39

Section 6

Title Exception 7 – TVA Transmission Line Easement Book 217 Page 575

THE U.S. OF AMERICA : GRANT
EXECUTED BY UNIVERSITY OF TENN.
NOV. 11,1939. FILED MAR. 29,1940
at 1:17 P.M.REGISTERED APRIL 4,1940

TRACTS 2 WC-22 and 24

GRANT OF TRANSMISSSION LINE EASEMENT

FOR AND IN CONSIDERATION of the sum of eight hundred dollars ($800.00), cash in hand paid, receipt whereof is hereby acknowledged, The University of Tennessee by and with the consent and approval of the Governor and the Commissioner of Finance and Taxation of the State of Tennessee, which approval is hereinafter endorsed upon this instrument, has this day bargained and sold , and by these presents does hereby grant, bargain, sell, transfer, and convey unto the UNITED STATES OF AMERICA a permanent easement and right of way only , it being understood that no fee simple title is hereby conveyed, for the following purposes , namely; the perpetual right to enter and to erect , maintain , repair, rebuild , operate and patrol one or more electric power transmisssion linesm and one or more telephone and or telegraph lines, including the right to erect such polses and other transmisssion line structures , wires , cables , and any necessary appurtenances; the right to clear said right of way and keep the same clear of brush , timber , inflamable structures , and fire hazards; and the right to remove danger trees, if any, located beyond the limits of said right of way ; all over , upon , across , and under portions of the following described land to wit;

A tract of land consisting of nine contiguous parcels , aggregating a total of 640.17 acres , more or less , located in the 9th Civil District of Maury County Tenn. which was conveyed to the State of Tennessee as Trustee, for the use and benefit of the University of Tennessee, by deed dated December 31,1917 , and of record in Book 143, page 453 of the Register's office of Maury County, Tenn. to which deed specific reference is hereby made.

The easement and right of way hereby granted covers amstrip of land one hundred and fifty (150) feet in width across portions of the above described lands, which easement and right of way is more particularly described ,in two parcels , as follows, to wit;

TRACT NO # 2 WC-22

Beginning at a point where the center line crosses a fence on the east line of the University of Tennessee's land, which is the west line of Lettie Lee Pigg's land, at survey station 205 / 57 on the center line of the transmisssion location , said point being S 6° 15' E., 805 feet from the intersection of a fence line and a creek , a corner of the lands of the University of Tennessee, Clara Mc Fall Whitson, and Lettie Lee Pigg; thence S. 30° 41' W., 514 feet to survey station 210 / 71.0 ; thence S 9° 30' E., 1553 feet to a point where the center line crosses the south line of the University of Tennessee's land , which is the north line of the Louisville and Nashville Railroad Company's land, at survey station 226 / 24

The above described strip of land is a continous right of way 150 feet wide through said property between the above named east and south property lines and has a net length of 2067 feet along the center line.

TRACT NO 2WC-24

Beginning at a point where the center line crosses the center line of Tennessee State Highway No 6 (U.S. Highway No 43) and the southeast line of the University of Tennessee's land, which is the northwest line of Lizzie B. Kittrell's land at survey station 244 / 36 on the center line of the transmisssion line location said point being S. 43° 15' W., 128 feet fro[illegible] state highway , a corner of the lands of the University of Tennessee, Mrs E.H.

Hatcher, and Lizzie B. Kittrell ; thence N. 9° 30' W., 1759 feet to a point where the center line crosses a fence on the north line of the University of Tennessee's land, which is the south line of the Louisville and Nashville Railroad Company's land at survey station 226 + 77

The above described strip of land is a continous right of way 150 feet wide threough said property between the above named southeast and north property lines and has a net length of 1759 feet along the center line, subject to the rights of the public for the above mentioned state highway No 6

TO HAVE AND TO HOLD the said easement and right of way unto the United States of America , and unto its sucessors and assigns , forever.

And the University of Tennessee does hereby covenant with the said United States of America that it is lawfully seized and possessed of said real estate , has a good and lawful right to sell and convey the easement and right of way herein conveyed that the same is free from all encumbrances , and that it will forever warrant and defend the title to the said easement and right of way above conveyed against the lawful claims of all persons whonsoever.

And the State of Tennessee further covenants and agrees that the payment of the purchase price above stated is accepted by it as full compensation for all damage incidental to the exercise of any of the rights above described , including any depreciation in the value of the land resulting from the granting of this easement; except that the United States of America shall remain liable for any additional damage which may be caused to the property of the University by its construction forces or by the construction forces of its agents and employees , in the erection and maintenance of said lines.

In witness whereof , The University of Tennessee has caused this instrument to be executed by its duly authorized offficers , on this 11th day of November ,1939

THE UNIVERSITY OF TENNESSEE

By James D. Hoskins , President

Attest ;
J.P. Hess , Secretary

The foregoing instrument of conveyance is hereby approved for and on behalf of the State of Tennessee

Prentice Cooper , Governor

George F. Mc F. Mc Canless
Commissioner of Finance and Taxation

STATE OF TENNESSEE COUNTY OF KNOX

On this 11th day of November ,1939 , before me appeared James D. Hoskins and J.P. Hess , both to me personally known , who being by me duly sworn did say that they are president and secretary ,respectively , of The University of Tennessee, a corporation, and that the seal affixed to said instrument is the corporate seal of said corporation , and that said instrument was signed and sealed in bahalf of said corporation , by the authority of the its Board of Directors , and said James D. Hoskins and J.P. Hess acknowledged said instrument to be the free act and deed of said corporation.

Witness my hand and seal at office in Knoxville, Tennessee, this 11th day of November ,1939 . My commisssion expires Oct. 7,1943.

I certify that I registered the above instrument this 4 day of April 1940

W. M. Fort Reg

Section 7

Title Exception 8 – University of Tennessee Sewer Easement Book 403 Page 108

EASEMENT FOR SEWER LINE

THIS EASEMENT AGREEMENT, made and entered into this 28 day of May, 1962, by and between JAMES M. CAMPBELL and wife, Pauline Rue CAMPBELL, of Maury County, Tennessee, parties of the first part, and THE UNIVERSITY OF TENNESSEE, a public educational corporation of the State of Tennessee, having its principal office at Knoxville, Tennessee, party of the second part.

W I T N E S S E T H :

The said parties of the first part, in consideration of the premises, and the further consideration of the release and surrender to them of a water main easement of the party of the second part across their land, do hereby grant and convey to the said party of the second part, its successors and assigns, forever, a right-of-way and easement fifteen (15') feet in width, with the right, privilege and authority to said party of the second part, its successors and assigns, to enter, lay, maintain, repair, replace, operate and remove a sewer line or lines through and under the lands of the parties of the first part situate in the Ninth Civil District of Maury County, Tennessee, formerly owned by Maury Farmers Cooperative, said easement and right-of-way to extend seven and one-half (7½') feet on each side of the following described center line:

> BEGINNING at a point which will be the location of a manhole on the boundary line between the 4-H Club property of The University of Tennessee and the property of James M. Campbell, which said point, on the eastern line of said 4-H Club property, is South 7° 30' East 155.4 feet distant from the center of little Rigby Creek, and North 7° 30' W 318.8 feet distant from a post in said boundary line; running thence South 64° W 140 feet to the City sewer line, at Point A on the survey entitled "Profile of Proposed Sewer Tenn. State Experiment Station Property," prepared by John J. Harris, dated May 9, 1962.

TO HAVE AND TO HOLD the said right-of-way and easement unto the said party of the second part, its successors and assigns, forever.

The parties of the first part covenant that they are lawfully seized in fee simple of said property above described; that they have a good and lawful right to sell and convey the rights, easements, and privileges herein set forth, that said property is free from all encumbrances, and they bind themselves, their heirs, executors, administrators, and assigns to warrant and defend forever said right-of-way and easement herein conveyed and the title thereto against the lawful claims of all persons whomsoever.

IN WITNESS WHEREOF, the parties of the first part have hereunto set their hands on the day and date first above written.

James M. Campbell

Pauline Duke Campbell

STATE OF TENNESSEE)
)
COUNTY OF MAURY)

Personally appeared before me Roy Rogue County Court Clerk, a ~~Notary Public~~ in and for the State and County aforesaid, the within named bargainors, James M. Campbell and wife, Pauline Duke Campbell, with whom I am personally acquainted, and who acknowledged that they executed the foregoing instrument for the purposes therein contained.

Witness my hand and official seal at Columbia, Tennessee, on this 17 day of ~~May~~ July, 1962.

Roy Rogue County Court Clerk

Notary Public

My commission expires: 9-1-62

BOOK 403 PAGE 110

James M. Campbell
Etux
Easement
to
University of Tenn

REGISTER OFFICE MAURY COUNTY, TENNESSEE
Received for record this 7 day of June 1962
at 9:35 o'clock A.M. and noted in
Note Book 4 page 97 Registered in
Book page Fee $
Register
Deputy

Mail
2.50

U. S. REVENUE STAMPS
$ -.55
Attached to this instrument

I hereby certify that the within instrument was filed for record this 10 day of Aug 62
ment the
Register
Deputy

Page 34 of 256 • Lot 0001 - Tradewind Dr

Section 8

Title Requirements – Property Tax Records

Address: Tradewind Dr

Parcel: 09-100-G -100-G -A -033.35- -000

Site: Maury County Trustee

Tax Year	Receipt Number	Owner Name	Parcel	Additional Info	Last Receipt Date	Received Of	Clerk and Master Status	Total Amount	Interest Amount	Total Paid Amount	Total Owe Amoun
2026	46278	S & K Llc	09-100-G -100-G -A -033.35- -000					$1,092.00	$0.00	$0.00	$1,092.0
2025	44276	S & K Llc	09-100-G -100-G -A -033.35- -000		10/17/2025	KEROLES LLC		$1,271.00	$0.00	$1,271.00	$0.0
2024	43227	S & K Llc	09-100-G -100-G -A -033.35- -000		1/29/2025	S & K Llc		$1,271.00	$0.00	$1,271.00	$0.0
2023	22826	Houseman Gary Family Trust	09-100-G -100-G -A -033.35- -000		12/6/2023	MICHAEL ARCHANGEL		$1,271.00	$0.00	$1,271.00	$0.0

~~* Due 2-28-27~~

City of Columbia
2025 pd 10-16-25 $549.00 Rec # 18148

Raves No Assessments

TENNESSEE COMPTROLLER OF THE TREASURY

Search Glossary Help Fact Sheet GIS Parcel Data

‹ Return to Results

GIS Map PDF

Parcel Details

MAURY COUNTY, TN | TAX YEAR 2026

County Information

County Number: 060
Reappraisal Year: 2026

Property Owner and Mailing Address

January 1 Owner
S & K LLC
2983 ELKHORN PL
SPRING HILL TN 37174

Property Location

Address: TRADEWIND DR

Control Map:	Group:	Parcel:	Property Identifier:	Special Interest:
100G	A	033.35		000

Value Information

Land Market Value:	$199,500
Improvement Value:	$0
Total Market Appraisal:	$199,500
Assessment Percentage:	40%
Assessment:	$79,800

Subdivision Data

Subdivision:

Plat Book:	Plat Page:	Block:	Lot:
22	540		2

Additional Information

No additional information available.

General Information

Class: 08 - Commercial
City #: 156
Special Service District 1: 000
District: 09
Number of buildings: 0
Utilities - Water/Sewer: 01 - PUBLIC / PUBLIC
Utilities - Gas/Gas Type: 01 - PUBLIC - NATURAL GAS
City: COLUMBIA
Special Service District 2: 000
Neighborhood: C20
Number of mobile homes: 0
Utilities - Electricity: 01 - PUBLIC
Zoning:

Outbuildings & Yard Items

Building/Card#	Type	Description	Area/Units

Sale Information

Sale Date	Price	Book	Page	Vacant/Improved	Type Instrument	Qu
8/23/2023	$165,000	R2942	405	V - VACANT	WD - WARRANTY DEED	A - AC
8/26/2022	$0	R2871	1176		ED - EXECUTOR/EXECUTRIX DEED	-
7/12/1991	$0	1122	712		-	-

Land Information

Deed Acres: 1.33 **Calculated Acres:**
Total Land Units: 1.33

Land Code	Soil Class	Units
10 - COM		1.33

Parcel Photos

No photos available.

Division of Property Assessments

Comptroller of the Treasury

State of Tennessee

Our Mission: Make Government Work Better

Randy McNeece
Maury County Trustee

2026 PROPERTY TAX STATEMENT
Maury County Trustee
Keep this portion for your tax records

This is your 2026 property tax notice. It is due and payable the first Monday in October and you have until 02/28/2027 to pay without interest.

Your portion of this statement, along with your cancelled check will serve as your receipt. Businesses may submit a photocopy of this notice when filling annual Business Tax returns to the County Clerk's Office.

IMPORTANT: Please return the coupon at the bottom with tax payment.

2026 PROPERTY TAX INFORMATION

2026 PROPERTY TAX STATEMENT

MAP/PAR: 09-100-G -100-G -A -033.35- -000

Description:

Subdivision: Block: Lot: 2

Block: Lot: Acres: 1.3300

Rollback Years from 0 thru 0

EQ Factor: 0.0000

Recorded owner as of:

Mailing Address:
S & K Llc
2983 Elkhorn Pl
Spring Hill TN 37174

Receipt Number: 2026 46278

PROPERTY TAX INFORMATION
Classification: Commercial

Appraised Value:			$199,500.00
Assessed Value @	40.0000%		$79,800.00
Tax Rate(s) per $100 of assessment:			
County:	$1.3690	Tax Amt:	$1,092.00
SSD:		Tax Amt:	
City:		Tax Amt:	$0.00
Rollback Taxes:			$0.00
Ad-Valorem Taxes:			$0.00
Misc. Tax/Fee:			$0.00
Total Taxes Due:			$1,092.00

TO AVOID INTEREST, TOTAL TAXES MUST BE PAID BY 02/28/2027

* Due 2-28-27

Date Paid: _____ Amt: _____ Check# _____

---------- **Detach Here** ----------

Randy McNeece
Maury County Trustee

2026 PROPERTY TAX STATEMENT
Maury County Trustee

Make check payable to:
Maury County Trustee
One Public Square
Columbia, TN 38401

S & K Llc
2983 Elkhorn Pl
Spring Hill TN 37174

Receipt Number: 2026 46278 Mortgage Code:

MAP/PAR	CO	CITY
09-100-G -100-G -A -033.35- -000	60	156

Property Address: Tradewind Dr

Total Taxes Due: $1,092.00

Amount Remitted: $_____

TO AVOID INTEREST,
TOTAL TAXES MUST BE PAID BY:
02/28/2027

Please return this portion with your payment

2025 Property Tax Receipt

Receipt Number: 2025 - 0018148

Receipt Date: 10/16/2025

Prop Addr: Tradewind Dr

Subdivision: Block: Lot: 2

Dimensions:

Pay Method: Check

Initials:

Drawer No:

Group Code:

Di	Map		Ctl-Mp		Gp	Parcel		SI
09	100	G	100	G	A	033	35	000

Deed Book: Page: Date

Plat Book: Page: Block: Lot:

2025

County:	060
City:	156
Mortgage:	
SSD1:	
SSD2:	
Tax Rate:	0.8251
Land Value:	166,300.00
Impmt Value:	0.00
Per Prop Value:	0.00
Total Value:	166300
Assessment:	66,520.00

Paid

Net Property Tax	0.00
SSD Taxes	0.00
City Property Taxes	549.00
INTEREST	0.00
TOTAL AMOUNT DUE:	549.00
INTEREST PAID:	0.00
TOTAL PAID:	549.00
BALANCE DUE:	10/16/2025 ← pd

S & K Llc
2983 Elkhorn Pl

Spring Hill, TN 371740000

City Tax Paid: 549.00

Received Of	Payment Type	Payment No	Amount	
			$1,574.00	**Paid**

CITY OF COLUMBIA PROPERTY TAX

NOTICE: All unpaid balances are subject to interest if not paid in full by due date.

Owner Name	S & K Llc
Property Address	Tradewind Dr
Property ID	100 G A 033 35 000

Tax Year	Receipt	Tax Amount	Amount Paid	Paid Date
2025	0018148	$549.00	$549.00	10/16/2025
2024	0017545	$549.00	$549.00	01/28/2025
2023	0009124	$549.00	$549.00	12/06/2023

Section 9

Vesting Deed Book R2942 Page 405

file Sunset Title

R2942/405

Prepared By and Return to:
Regal Title, LLC
316 W Main St
Murfreesboro, TN 37130

State of Tennessee
County of Maury
The actual consideration or value, whichever is greater, for this transfer is $165,000.00.

Affiant

File Number: 23060402

CONNIE L. COTHRAN STATE OF TENNESSEE NOTARY PUBLIC MAURY COUNTY

Subscribed and sworn to before me, this 23rd day of August, 2023.

Connie L. Cothran
Notary Public
My Commission Expires: 03/18/2025

Warranty Deed

Address of New Owner(s):	Send Tax Bills To:	Map/Parcel Number:
S and K LLC, a Tennessee limited liability company	same	100B-A-100G-033.35
2983 Elkhorn Place		
Spring Hill, TN 37174		

For and in consideration of the sum of ten dollars & no/100 ($10.00), cash in hand paid by the hereinafter named Grantees, and other good and valuable consideration, the receipt of which is hereby acknowledged, **Patricia Anne Houseman and Wendy H. Lancaster, Co-Trustees of the Gary Houseman Family Trust**, hereinafter referred to as Grantor(s), have bargained and sold, and do hereby transfer and convey to **S and K LLC, a Tennessee limited liability company**, hereinafter called the Grantee(s), their successors and assigns, a certain tract or parcel of land in Maury County, State of TN, described as follows: to-wit:

Land in Maury County, Tennessee, being Lot 2, containing 1.329 acres, on the Plan of Houseman Two-Lot Subdivision, of record in Plat Book P22, Page 540, Register's Office for Maury County, Tennessee, to which Plan reference is hereby made for a more complete description of the property.

Being a portion of the same property conveyed to Patricia Ann Houseman and Wendy Lancaster, Co-Trustees of the Gary Houseman Family Trust by Executrix Quitclaim Deed from Patricia Ann Houseman, as Executrix of the Estate of Gary Houseman of record in Book R2871, page 1176, Register's Office for Maury County, Tennessee, dated August 26, 2022 and recorded on September 7, 2022.

This conveyance is subject to all easements, restrictive covenants and conditions, and other matters of record, including all items set out on any applicable plat of record.

This property is unimproved property known as 1.329 acres on Tradewinds Drive, Columbia, TN 38401.

To have and to hold the said tract or parcel of land, with the appurtenances, estate, title and interest thereto belonging to the said Grantees, their heirs, successors and assigns, forever. Grantors covenant with Grantees that Grantors are lawfully seised and possessed of said land in fee simple, have a good right to convey it, and the same is unencumbered, unless otherwise herein set out. Grantors do further covenant and bind ourselves, our heirs, successors, assigns and representatives, to warrant and forever defend the title to said land to said Grantees, their heirs and assigns, against the lawful claims of all persons whomsoever.

Wherever used, the singular number shall include the plural, the plural the singular, and the use of any gender shall be applicable to all genders.

WITNESS my hand this 23rd day of August, 2023.

Gary Houseman Family Trust

BY: Patricia Anne Houseman

Patricia Anne Houseman, Co-Trustee

State of Tennessee
County of Rutherford

Personally appeared before me, the undersigned, a notary public in and for said county and state, the within named Patricia Anne Houseman, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who, upon oath, acknowledged that she executed the within instrument for the purposes therein contained and who further acknowledged that she is the Trustee for Gary Houseman Family Trust, and that she is authorized by the Trust to execute this instrument on its behalf.

Witness my hand and official seal this 23rd day of August, 2023.

Mark S Moore

Notary Public at Large
My Commission Expires: 10-17-2026



WITNESS my hand this 21 day of August, 2023.

Gary Houseman Family Trust

BY: Wendy D. Lancaster, Co-Trustee
Wendy N. Lancaster, Co-Trustee

State of Florida
County of Hillsborough

Personally appeared before me, the undersigned, a notary public in and for said county and state, the within named Wendy N. Lancaster, with whom I am personally acquainted (or proved to me on the basis of satisfactory evidence), and who, upon oath, acknowledged that she executed the within instrument for the purposes therein contained and who further acknowledged that she is the Trustee for he Gary Houseman Family Trust, and that she is authorized by the Trust to execute this instrument on its behalf.

Witness my hand and official seal this 21 day of August, 2023.

Notary Public at Large
My Commission Expires:
Oct 7 2024

DOREEN MARY SCHARFF
Notary Public - State of Florida
Commission # HH 051807
My Comm. Expires Oct 7, 2024

BK/PG: R2942/405-407
23011932

3 PGS:AL-WARRANTY DEED	
JANE BATCH: 310657	08/24/2023 - 03:05 PM
VALUE	165000.00
MORTGAGE TAX	0.00
TRANSFER TAX	610.50
RECORDING FEE	15.00
ARCHIVE FEE	0.00
DP FEE	2.00
REGISTER'S FEE	1.00
TOTAL AMOUNT	628.50

STATE OF TENNESSEE, MAURY COUNTY
JOHN FLEMING

Section 10

Zoning Arterial and Utilities Findings for Tradewind Dr Lot 2

Summary

Item	Finding	Evidence in this package
Zoning	**CD-4C**, General Urban – Corridor Character District (City of Columbia)	Zoning Map Exhibit with Arterial; Zoning Ordinance Excerpts
What CD-4C allows	Mixed use: primarily residential, retail/personal service/artisan, office, lodging and civic uses	Ordinance Table 4.3.1-E; Table 4.3.9.A-1
Water and sewer	Public / public	City GIS Parcel Record (field `WATERSEWER`)
Electric	Public	City GIS Parcel Record (field `ELEC`)
Gas	Public, natural gas	City GIS Parcel Record (field GAS)
Nearest arterial	W James M Campbell Blvd (SR 50), 262 ft from the lot line; corridor ground-floor rule applies	Zoning Map Exhibit with Arterial; City GIS
Assessor property type	08 Commercial (tax classification, not zoning)	City GIS Parcel Record (field PT)

How the zoning was determined

The county parcel record published through the City of Columbia's GIS leaves its zoning field blank for this parcel, so the zoning could not be read directly from the parcel record. It was determined from the City's own zoning map data instead:

1. The subject parcel was located in the City of Columbia GIS **Parcels** layer by its GIS link, `060100G A 03335` (owner S & K LLC; Lot 2, Plat Book 22, Page 540; 1.33 deed acres).
2. The parcel's polygon was overlaid on the City's **Zoning_Districts_Dissolve** layer, the zoning layer in the City of Columbia GIS Mapping web map linked from columbiatn.gov/549/GIS-Mapping.

3. Two districts touch the parcel: CD-4C and SD-LI (Light Industrial). Measuring the overlap, **100% of the parcel's area lies in CD-4C**; SD-LI shares only the parcel's boundary line and covers none of its area. The center of the parcel also falls in CD-4C.

The Zoning Map Exhibit with Arterial in this package shows the result over aerial imagery.

What CD-4C means

The City of Columbia Zoning Ordinance (Ordinance 4400, Title 14, Chapter 2; April 2025 version) lists CD-4C as Character District "General Urban – Corridor" (Section 3.5). Table 4.3.1-E describes it as:

> a medium density area along a corridor. It provides for a balanced automobile and pedestrian-oriented built environment and a mix of Building Types and primarily Residential, Retail/Personal Service/Artisan, Office, Lodging and Civic Uses.

The specific uses allowed in CD-4C are listed in Table 4.3.9.A-1 (Principal Uses). Each use is marked Permitted by Right ("P"), Permitted Subject to Limited Use Standards ("PL"), Conditional Use ("CU"), or Not Permitted ("NP") (Section 4.3.9.A.2). Lot and building standards for CD-4C, including setbacks, height and density, are in Table 4.3.1-E. The relevant ordinance pages are reproduced in this package.

Corridor ground-floor rule — applies to this lot. Under the ordinance's Commercial Corridors provision (Section 4.3.9, page 235 of the ordinance), principal buildings in CD-4C on any lot within 400 feet of a thoroughfare with a functional classification of arterial must have a retail sales or service, restaurant, arts-related, or office use for the entire ground floor. A related provision (page 236) prohibits certain uses on the entire ground floor of any building located within 400 feet of an arterial.

The nearest arterial is **W James M Campbell Blvd (State Route 50)**. The City of Columbia GIS classifies it as an arterial in two places: its Functional Classification layer (`Classifica` = Arterial), and the streets layer the City's web map labels "Functional Classification," where it is class 5, Principal Arterial. The ordinance ties functional classification to the transportation element of Connect Columbia.

Measured in the City's GIS data (Tennessee State Plane, feet):

Measurement	Result
Nearest lot line to arterial centerline	**262 ft**
Farthest lot corner to arterial centerline	603 ft
Share of the lot within 400 ft of the centerline	51%

These distances are measured to the road's centerline, so the distance to the right-of-way line is shorter. The lot is within 400 feet of an arterial, so the corridor ground-floor rule applies to principal buildings on it. Because about half the lot lies beyond 400 feet of the centerline, where a building sits may matter under the building-based provision. The Zoning Map Exhibit with Arterial shows the arterial, the 400-foot line and the 262-foot measurement. Bidders should confirm the application of both provisions to any proposed site plan with the City.

"Commercial" vs. CD-4C. Earlier materials described this lot as commercial land. The county assessor classifies it as property type 08, Commercial, which is a tax classification. The zoning that governs use is CD-4C, a mixed-use district that permits commercial uses (retail, office, lodging) as well as residential. This listing uses the zoning designation.

Utilities

The county parcel record (the same Parcels layer) records these utility fields for the subject parcel:

- WATERSEWER: 01 Public/Public — public water and public sewer
- ELEC: 01 Public — public electric
- GAS: 01 Public - Natural Gas — public natural gas

These are assessor records of the utilities serving the parcel's area. The lot is vacant land. These records do not confirm existing service connections, tap availability, capacity, or fees. Bidders should confirm those with the utility providers and the City before bidding.

Sources

- City of Columbia, TN GIS — Parcels feature service: services6.arcgis.com/ubRvNDgGwwJuZMcL/arcgis/rest/servi (retrieved October 1, 2026)
- City of Columbia, TN GIS — Zoning_Districts_Dissolve feature service: services6.arcgis.com/ubRvNDgGwwJuZM (retrieved October 1, 2026)
- City of Columbia GIS — Functional_Classification feature service: services6.arcgis.com/ubRvNDgGwwJuZMcL/a and Coco_Streets_VL (CLASS field) (retrieved October 1, 2026)
- City of Columbia GIS Mapping: columbiatn.gov/549/GIS-Mapping
- City of Columbia Zoning Ordinance 4400 (April 2025): columbiatn.gov/DocumentCenter/View/3246
- City of Columbia FLUM-to-Zoning Matrix: columbiatn.gov/DocumentCenter/View/3057

Important notice

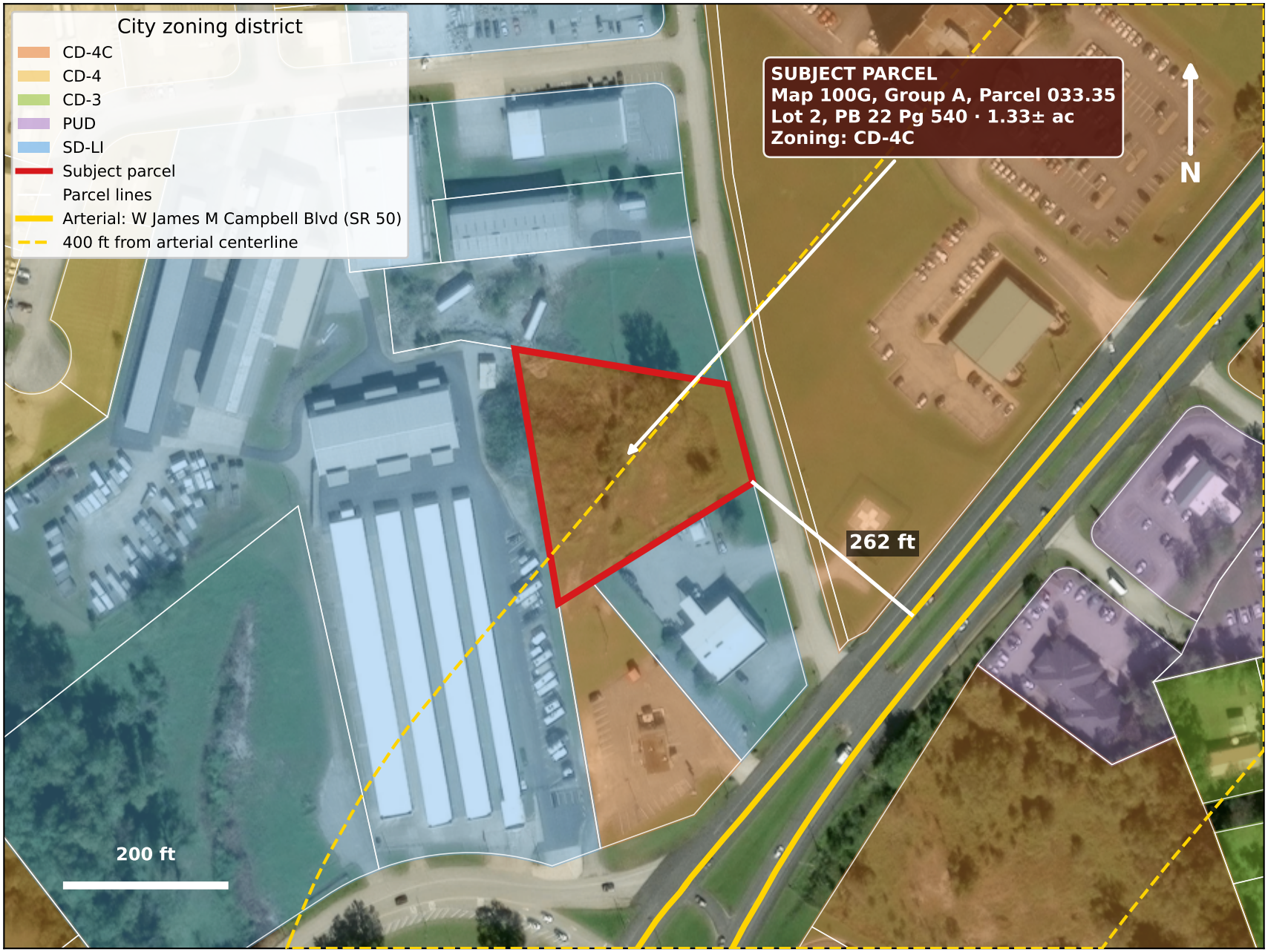
These findings come from public GIS data and the published zoning ordinance as of the retrieval date. They are provided for bidder convenience and are not a zoning verification letter, survey, or legal opinion. GIS boundaries are approximate. Zoning, permitted uses and utility availability can change. Bidders must independently verify zoning, permitted uses, development standards and utility service with the City of Columbia Development Services Department and the utility providers before bidding.

Section 11

Zoning Map Exhibit with Arterial for Tradewind Dr Lot 2

Zoning Map Exhibit with Arterial — Tradewind Dr, Lot 2, Columbia, TN

Subject parcel shown over City of Columbia zoning districts and Maury County parcel lines



Sources: City of Columbia, TN GIS — Zoning_Districts_Dissolve and Parcels feature services (services6.arcgis.com/ubRvNDgGwwJuZMcL), published in the City of Columbia GIS Mapping web map (columbiatn.gov/549/GIS-Mapping), retrieved October 1, 2026. Aerial imagery: Esri World Imagery. Nearest lot line is 262 ft from the arterial centerline; 51% of the lot lies within 400 ft. Classification: City Functional Classification layer. Overlay result: 100% of the subject parcel's GIS polygon falls inside the CD-4C district; the adjoining SD-LI district touches only a shared boundary line. GIS lines are approximate and are not a survey. Bidders should confirm zoning with the City of Columbia Development Services Department.

Section 12

Zoning Ordinance Excerpts from Columbia Ordinance 4400

CITY OF

COLUMBIA, TENNESSEE

ZONING ORDINANCE



T·P·U·D·C

COLUMBIA FOR YOU

CHARACTER · PROPORTION · PATTERN · PRINCIPLES

ORDINANCE 4400

APRIL VER 1.0

2025

SECTION 3.5 CHARACTER DISTRICT, SPECIAL DISTRICT, AND PUD DISTRICT DESCRIPTIONS

Character District, Special District, and PUD District descriptions are set forth in **Table 3.7.1 (District Descriptions)** and **Tables 4.3.1–A – 4.3.1-O (District Standards).**

SECTION 3.6 CIVIC DISTRICT DESCRIPTION

Civic District is described in **Table 4.3.1-O (Civic District Standards).**

Civic Spaces are described in **Table 5.3.2.A (Civic Space Types Summary).**

SECTION 3.7 ESTABLISHMENT OF DISTRICTS

3.7.1 BASE DISTRICTS

For the purpose of this Ordinance, there are hereby established within the City, and the City is hereby divided into the following districts; which are described in Sections 3.5-3.6 and **Table 3.7.1 (District Descriptions)** referenced therein, and the District standards for which are set forth for Buildings, Lots, and Building Sites in Section 4.3, and for Development Parcels in Sections 5.1-589 and **Tables 4.3.1-A – 4.3.1-O (District Standards).**

A. Character Districts

1. Character District CD-2 (Rural)
2. Character District CD-3L (Neighborhood – Large Lot)
3. Character District CD-3 (Neighborhood)
4. Character District CD-4 (General Urban)
5. Character District CD-4C (General Urban – Corridor)
6. Character District CD-5 (Urban Center)
7. Character District CD-5C (Urban Center – Corridor)

B. Special Districts

1. Special District – SD-MHP (Manufactured Home Park Residential)
2. Special District – SD-INT (Interstate Service)
3. Special District – SD-LI (Light Industrial)
4. Special District – SD-HI (Heavy Industrial)

C. Planned Unit Development Districts

1. Planned Unit Development District – PUD-R (Residential)Planned Unit Development District – PUD-MU (Mixed Use)
2. Planned Unit Development District – PUD-RES (Residential) (Applicable and only available to PUDs Established prior to Effective Date)
3. Planned Unit Development District – PUD-C (Commercial) (Applicable and only available to PUDs Established prior to Effective Date)
4. Planned Unit Development District – PUD-I (Industrial) (Applicable and only available to PUDs Established prior to Effective Date)
5. Planned Unit Development District – PUD-OP (Office Park) (Applicable and only available to PUDs Established prior to Effective Date)
6. Planned Unit Development District – PUD-VC (Village Center) (Applicable and only available to PUDs Established prior to Effective Date)

CD-4C TABLE 4.3.1-E DISTRICT STANDARDS
GENERAL URBAN CORRIDOR CHARACTER DISTRICT



General Description

The CD-4C General Urban – Corridor Character District consists of a medium density area along a corridor. It provides for a balanced automobile and pedestrian-oriented built environment and a mix of Building Types and primarily Residential, Retail/ Personal Service/ Artisan, Office, Lodging and Civic Uses; there are variable setbacks. It has variable private landscaping and it has Thoroughfares and Internal Drives with curbs, Sidewalks and trees that define medium-sized blocks. CD-4C is an appropriate District for parcels identified as Facilitate or Activate on the Areas of Change map of the Comprehensive Plan, which have access onto a public right-of-way classified as principal arterial or minor arterial in the Transportation element of the Plan and are located in Suburban Neighborhoods and City Center Urban Village Future Land Use Character Areas described in the Comprehensive Plan.





CD-4C TABLE 4.3.1-E DISTRICT STANDARDS: GENERAL URBAN CORRIDOR CHARACTER DISTRICT

Density / Floor Area Ratio (FAR)	*Applicable only to Development Parcels
24 Density Units per acre max	

BLOCK SIZE*	*Applicable only to Development Parcels*
Block Perimeter	2400 ft. max

Private Frontage Types

Common Yard	P	Stepfront	NP
Porch	P	Shopfront	P
Fence	P	Gallery	P
Terrace/Lightwell	P	Arcade	NP
Forecourt	P	Officefront	P
Stoop	P		

See **Table 4.3.7.A (Private Frontage Types)**

Civic Space Types*

*Applicable only **to** Development Parcels.

Natural Area	P	Playground	P
Green	P	Sport Field	NP
Square	P	Pocket Park	P
Plaza	P		

See **Table 5.3.2-A (Civic Space Types - Summary)** and **Table 5.3.2-B (Civic Space - Specific Standards)**

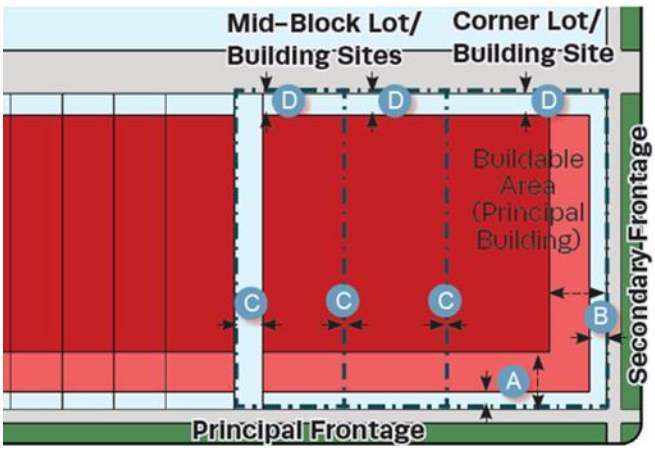
Permitted Uses

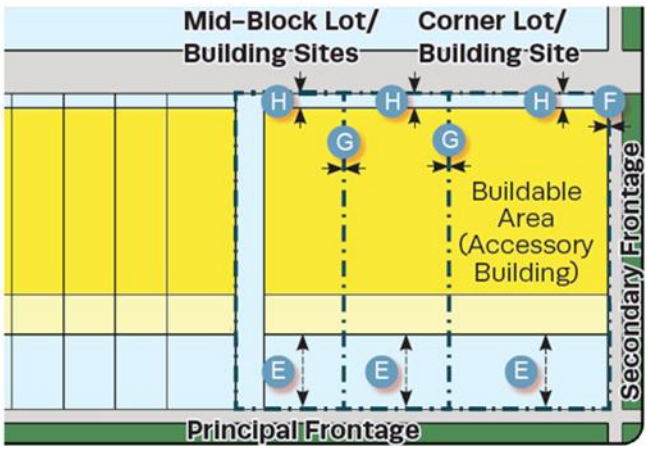
See **Table 4.3.9.A-1 (Building, Lot & Building Site Principal Use)**, **Table 4.3.9.A-2 (Building, Lot & Building Site Accessory Uses)**, and **Table 4.3.9.A-3 (Building, Lot & Building Site Temporary Uses)**. For Development Parcels, see also **Table 5.1.7 (Principal Use Mix)**.

Number of Buildings

Principal Building	1 max
Accessory Buildings	1 max

CD-4C TABLE 4.3.1-E DISTRICT STANDARDS: GENERAL URBAN CORRIDOR CHARACTER DISTRICT





Lot Occupation	
Lot/ Building Site Width	House: 38’ min if Alley loaded Garage at rear, otherwise 50 ft. min Duplex: 30 ft. min for each unit of Duplex Townhouse: For Townhouses with each unit on its own Lot or Building Site: 18- 36 ft. for single Townhouse unit attached to other Townhouse units x8 max. attached Townhouse units. For multiple Townhouses on a single Lot or Building Site 18-20 ft. per Townhouse unit x6max. attached Townhouse units Large Scale Commercial: 600 ft max All other Building Types: 18 ft. min – 200 ft. max
Frontage Buildout	60% min except commercial 40% min
Lot/ Building Site Area	**NR**
Impervious Surface Coverage	80% max
Lot/ Building Site Enfrontment	Must enfront a vehicular Thoroughfare or Internal Drive, except < 20% of the Lots or Building Sites within each type of Character District of a Development Parcel may Enfront a Pedestrian Path, Passage, pedestrian walkway or water body if such Lots have legal and physical vehicular access to a vehicular Thoroughfare via Driveway or Easement. The Planning Commission may approve alternative enfrontment within a Development Parcel as described in 8.5.6.J
Lot/ Building Site Access	All lots must have legal and physical vehicular access to a vehicular Thoroughfare or Internal drive via Driveway or Easement.

CD-4C TABLE 4.3.1-E DISTRICT STANDARDS: GENERAL URBAN CORRIDOR CHARACTER DISTRICT

Setbacks / Yards

Setbacks / Yards – Principal Building			Setbacks / Yards – Accessory Building		
Front Setback / Yard, Principal Frontage	6 ft. min, 40 ft. max; except where the Lot or Building Site enfronts a thoroughfare with a functional classification of Arterial and parking is located in the First Layer, max 85 ft.	A	Front Setback / Yard, Principal Frontage	20 ft. min behind Principal Building Frontage; except where the Lot or Building Site enfronts a thoroughfare with a functional classification of Arterial and parking is located in the First Layer, max 85 ft.	E
Front Setback / Yard, Secondary Frontage	6 ft. min, 40 ft. max; except where the Lot or Building Site enfronts a thoroughfare with a functional classification of Arterial and parking is located in the First Layer, max 85 ft.	B	Front Setback / Yard, Secondary Frontage	5 ft. min	F
Side Setback / Yard, each side	0 ft. min. per side	C	Side Setback / Yard, each side	5 ft. min	G
Rear Setback / Yard	3 ft. min; or 15 ft. min from center line of rear Alley.	D	Rear Setback / Yard	3 ft. min; or 5 ft. min if Garage faces rear Alley.	H

Building Standards

Building Height*

Principal Building	4 Stories max
Accessory Building	2 Stories max

*Stories/ Height do not include Attics and Basements, chimneys, flagpoles, towers, spires, belfries, parapet walls, aerials, or antennas. Any Building exceeding 35 feet in height must obtain approval from stipulations made by the Fire Department in accordance with the above cited codes shall be required. *

*The Fire Department may stipulate special fire measures in accordance with National Fire Protection Association and International Building Code criteria as a condition of approval of such Structure. In such instance stipulations made by the Fire Department in accordance to with the above cited codes shall be required. *

Ceiling Height

May not exceed 14 ft. from finished floor to finished ceiling, except for a first floor Shopfront Facade, which may not exceed 25 ft.

Building Composition

Vertical Composition	Each Principal Building must have an identifiable Base, Middle & Cap
Finished Floor Level	**NR**

B. Manufactured Homes

1. No Manufactured Home shall be placed on any Lot or Building Site within a Residential District, unless it is used actively for Residential purposes, except as provided in Section 4.3.8. A.2.
2. Non-Residential use of a Manufactured Home may be permitted as a Temporary Use as a construction office during construction, subject to issuance of an annual permit by the Zoning Administrator subject to limitations pursuant to Section 4.3.9.E and **Table 4.3.9.A-3 (Temporary Uses).**
3. Pursuant to TCA. Section 13-24-201, the provisions of Section 4.3.8.A shall not apply to Double-Wide Manufactured Homes used as single-family residences, which shall instead be considered a single-family home; provided that, pursuant to TCA. § 13-24-202, such Double-Wide Manufactured Homes must have the same general appearance as required for site-built homes and shall comply with all standards and requirements of this Ordinance.

4.3.9 USES

A. General

1. Buildings, Lots, and Building Sites must comply with the Use standards and requirements of this Section 4.3.9. For Development Parcels, the mix of Principal Uses in each District is further regulated under Section 5.1.7.
2. Principal Uses, Accessory Uses, and Temporary Uses are Permitted by Right ("P"), Permitted Subject to Limited Use Standards ("PL"), as Conditional Uses ("CU"), or Not Permitted ("NP") within each District, in each case as indicated in **Table 4.3.9.A-1 (Building, Lot & Building Site Principal Uses), Table 4.3.9.A-2 (Building, Lot & Building Site Accessory Uses),** and **Table 4.3.9.A-3 (Building, Lot & Building Site Temporary Uses).**
3. Principal Uses, Accessory Uses, or Temporary Uses, as applicable, of Buildings, Lots, and Building Sites, which are indicated in **Table 4.3.9.A-1 (Building & Lot Principal Uses), Table 4.3.9.A-2 (Building, Lot & Building Site Accessory Uses),** or **Table 4.3.9.A-3 (Building, Lot & Building Site Temporary Uses)** as Permitted ("P"), Permitted Subject to Limited Conditions ("PL"), or as Conditional Use ("CU"), are permitted within each District, subject to compliance with all applicable standards, conditions and requirements thereof and obtaining all applicable approvals and permits therefor, including without limitation in the case of Uses Permitted Subject to Limited Use Standards ("PL") and Conditional Uses ("(CU"), compliance with the applicable Use standards of Section 4.3.11.D, and in the case of Conditional Uses ("CU"), Board of Zoning Appeals approval pursuant to Article 8 (Administrative, Procedural, and Enforcement).
4. Accessory Uses of Buildings, Lots, and Building Sites in each District must conform to the Accessory Uses specified on **Table 4.3.9.A-2 (Building, Lot & Building Site Accessory Uses)** for such District and are subject to compliance with all other applicable standards and requirements of this Ordinance.
5. Temporary Uses of Buildings, Lots, and Building Sites in each District must conform to the Temporary Uses specified on **Table 4.3.9.A-3 (Building, Lot & Building Site Temporary Uses)** for such District and are subject to compliance with all other applicable standards and requirements of this Ordinance.
6. Without limitation, Accessory Uses must be subordinate and customarily incidental to a permitted Principal Use on the Lot.
7. If multiple Principal Uses are allowed within a District, they may exist within a single Building, Lot, or Building Site, subject to compliance with all other applicable standards and requirements.

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Farming	PL	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Greenhouse	PL	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Other Agricultural Uses Not Listed Under any Use Category	PL	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Sand, Stone, and Gravel Quarrying	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Other Extractive Uses Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
House for Single-Family Dwelling	P	P	P	P	P	P	NP	NP	NP	NP	NP	P	NP	NP
Attached Dwelling - Duplex for 2-Family Dwelling	NP	NP	PL	PL	PL	PL	NP	NP	NP	NP	NP	NP	NP	NP
Attached Dwelling - Townhouses	NP	NP	NP	PL	PL	PL	PL	NP	PL	NP	NP	PL	PL	NP
Attached Dwelling -Small Multifamily Building	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	PL	PL	NP
Attached Dwelling -Large Multifamily Building	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	PL	PL	NP
Attached Dwelling -Residence Portion of a Live/Work, Mixed-Use, or Flex Building, if Building Type permitted in District	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	PL	PL	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Attached Dwelling -Assisted Living Apartment	NP	NP	NP	PL	PL	PL	PL	NP	NP	PL	NP	NP	PL	NP
Attached Dwelling - Independent Living Apartment	NP	NP	NP	PL	PL	PL	PL	NP	NP	PL	NP	NP	PL	NP
Retirement Community or other Congregate Living Facility with individual Dwelling Units	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	PL	PL	NP
Manufactured Home	PL	PL	PL	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Manufactured Home- Class A	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Manufactured Home Park	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Other Household Living Uses Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP	NP	NP	NP
Adult Care Home	P	P	P	P	P	NP	NP	NP	NP	NP	NP	P	NP	NP
Boarding or Rooming House, not including Group Home for Persons with Disabilities	NP	NP	NP	NP	NP	P	P	NP	P	P	NP	NP	NP	NP
Dormitory not associated with Educational Institution	NP	NP	NP	PL	PL	PL	PL	NP	NP	PL	NP	NP	NP	NP
Fraternity or Sorority House	NP	NP	NP	PL	PL	PL	PL	NP	NP	PL	NP	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Group Home for Persons with Disabilities or other Group Living Home	P	P	P	P	P	NP	NP	NP	NP	NP	NP	P	NP	NP
Monastery or Convent	NP	NP	NP	PL	PL	PL	PL	NP	NP	PL	NP	NP	NP	NP
Orphanage	NP	NP	NP	PL	PL	PL	PL	NP	NP	PL	NP	NP	NP	NP
Other Group Living Uses not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Civic Building	NP	P	P	P	P	P	NP	NP	NP	NP	NP	NP	NP	P
Philanthropic Institution	NP	NP	NP	P	P	P	P	NP	NP	NP	NP	NP	P	P
Recreation Facility (Civic)	NP	P	P	P	P	P	P	P	NP	P	NP	P	P	P
Other Community Service Use Not Listed Under any Use Category	NP	NP	NP	P	P	P	P	P	NP	P	NP	P	P	P
Adult Day Care Facility (Civic)	P	P	P	P	P	P	P	P	P	P	NP	P	P	P
Children Day Care Facility (Civic)	P	P	P	P	P	P	P	P	P	P	NP	P	P	P
Group Day Care or Family Day Care or Facility (Civic)	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	NP	PL	PL	PL
Other Day Care Facility Use (Civic) Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Correctional Facilities	NP	NP	NP	NP	NP	NP	NP	NP	CU	CU	CU	NP	NP	CU

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Other Government Facility Use (Civic) Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	P
Civic Space – Community Garden	P	P	P	P	P	P	NP	P	P	P	NP	P	P	P
Civic Space – Green	NP	P	P	P	P	P	NP	P	P	P	NP	P	P	P
Civic Space – Square or Plaza	NP	NP	NP	P	P	P	NP	NP	NP	NP	NP	NP	P	P
Civic Space – Park or Playground	P	P	P	P	P	P	NP	P	P	P	NP	P	P	P
Civic Space - Sports Field	NP	P	P	P	NP	NP	NP	P	NP	P	NP	P	NP	P
Other Civic Space Use Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Botanical Garden	P	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P
Nature Preserve	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Recreational Trail	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Game Preserve	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Wildlife Management Area	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Refuge	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Wild Animal Sanctuary	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Water Conservation Area	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Reservoir	P	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Drainage Well	P	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Water Supply	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Water Well	P	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Zoo	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Other Open Space Use Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Place of Worship or other Religious Facilities	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Cemetery / Mausoleum / Columbarium / Memorial Garden	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P
Funeral Services	NP	NP	NP	P	P	P	P	NP	NP	NP	NP	NP	P	P
Fire / EMS Station	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Police Station	P	P	P	P	P	P	P	P	P	P	P	P	P	P
Adult Continuing Education	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Personal Improvement Education	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Business, trade, or vocational school, other than Truck Driving School	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Truck Driving School	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Pre-School or Nursery School	P	P	P	P	P	P	P	NP	P	P	NP	P	P	P
Kindergarten	P	P	P	P	P	P	P	NP	P	P	NP	P	P	P
Elementary School	P	P	P	P	P	P	P	NP	P	P	NP	P	P	P
Middle School	P	P	P	P	P	P	P	NP	P	P	NP	P	P	P
High School	P	P	P	P	P	P	P	NP	P	P	NP	P	P	P
College or University	NP	NP	NP	P	P	P	P	NP	P	P	P	NP	P	P
Community College	NP	NP	NP	P	P	P	P	NP	P	P	P	NP	P	P
Graduate / Professional School	NP	NP	NP	P	P	P	P	NP	P	P	P	NP	P	P
Nursing or Medical Schools not accessory to a Hospital	NP	NP	NP	P	P	P	P	NP	P	P	P	NP	P	P
Seminary	NP	NP	NP	P	P	P	P	NP	P	P	P	NP	P	P
Other Educational Use Not Listed in any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Hospital	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	PL
Rehabilitation Facility or Center for Observation	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	PL
Other Health Care Institution Use Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Long Term Care Facility	NP	NP	NP	PL	PL	PL	PL	NP	NP	PL	NP	NP	PL	NP
Continuum of Care Facility	NP	NP	NP	PL	PL	PL	PL	NP	NP	PL	NP	NP	PL	NP
Bed & Breakfast	P	NP	NP	P	P	P	P	NP	NP	NP	NP	NP	P	NP
Extended Stay Hotel	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Inn	P	NP	NP	P	P	P	P	NP	NP	NP	NP	NP	P	NP
Hotel, not including Extended Stay Hotel	NP	NP	NP	PL	PL	PL	PL	NP	PL	NP	NP	NP	PL	NP
Motel	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Short-Term Rental Unit	NP	NP	NP	PL	PL	PL	PL	NP	NP	NP	NP	NP	NP	NP
Other Accommodation / Lodging Uses Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Adult Day Care Facility (non-Civic)	P	P	P	P	P	P	P	P	P	P	NP	P	P	NP
Child Care Facility (non-Civic), excluding Child Care in Home	P	P	P	P	P	P	P	P	P	P	NP	P	P	NP
Children's Day Camp (non-Civic)	P	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Group Day Care Facility, Family Day Care Facility or other Group Care Facility (non-Civic)	NP	NP	NP	CU	CU	CU	CU	NP	CU	CU	NP	CU	CU	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Hospice (non-Civic)	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Retirement Center or Life Care Community without individual Dwelling Units (non-Civic)	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Other Personal & Group Care Facilities Use Not Listed Under any Use Category (non-Civic)	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Bowling Alley	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Game Arcade	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Gymnastics Facility	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Commercial Indoor Athletic Training Facility	NP	PL	PL	PL	P	P	P	NP	P	P	NP	NP	P	NP
Indoor firing range	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	NP	NP	NP	NP
Indoor Sports Academy	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Membership Club or Lodge	P	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Movie or other Theater	NP	NP	NP	P	P	P	P	NP	P	NP	NP	NP	P	NP
Pool Hall	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Recreation Facility (non-Civic)	NP	P	P	P	P	P	P	NP	P	P	NP	P	P	NP
Skating rink	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Social Club, Lodge, or Organization (non-Civic)	NP	CU	CU	P	P	P	NP	NP	P	P	NP	NP	P	NP
Other Commercial Indoor Recreation Use Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Group Assembly (non-Civic)	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	NP
Other Commercial Group Assembly Use (non-Civic) Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Amphitheater	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	NP
Sports Field	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	NP
BMX Bicycle Park	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Campground	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Drive-in Theater	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Firing Range such as Rifle Range, Archery Range, Handgun, or Skeet Shooting	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP
Golf Course, Country Club, Swim Club, and Tennis Club	PL	PL	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Marina / Boating Facility	PL	PL	PL	PL	PL	PL	PL	PL	NP	NP	NP	PL	PL	NP
Recreational Vehicle (RV) Park	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Paintball Park	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Outdoor Entertainment Activity such as Batting Cage, Golf Driving Range, Amusement Park, Miniature Golf Facility	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Skateboard Park	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Stadium / Arena	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP	NP
Summer Camp (overnight)	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Swimming Pool	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	NP	PL	PL	NP
Tennis Court	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	NP	PL	PL	NP
Water Park	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Other Commercial Outdoor Recreation Use Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Parking Lot	NP	NP	NP	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL
Parking Structure	NP	NP	NP	P	P	P	P	NP	P	P	P	NP	P	P
Restaurant or other Food Service Business without Drive-Through	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Small-scale Catering Establishment without Drive-Through	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Drive-in Restaurant and Any Restaurant with Drive-Through	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	NP
Bar, Tavern, or Nightclub	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	NP
Alcoholic Beverage Retail Sales	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Artisan Establishment, with or without Retail Sales, & without Drive-Through	NP	NP	NP	P	P	P	P	NP	NP	P	NP	NP	P	NP
Arts-Related Uses	NP	NP	NP	P	P	P	P	NP	NP	P	NP	NP	P	NP
Convenience Store with Gasoline Sales Facility without Drive-Through	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	PL	NP	PL	NP
Retail, Personal Service, Repair, Arts, or Artisan Establishment with Drive-Through	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	NP
Food Truck Court	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	NP	NP
Personal Services, other than Motor Vehicle Body Shop, and Motor Vehicle Maintenance, Repair, Fuel Sales, Service, or Cleaning, without Drive-Through	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Repair Services, other than Motor Vehicle Body Shop,	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
and Motor Vehicle Maintenance, Repair, Fuel														
Retail Membership Club	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Retail Food Sales, with or without on-premises preparation or processing, without Drive-Through	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Retail Sales, Rental, or Leasing, other than Motor Vehicle - Related Uses, Retail Food Sales, Retail Membership Club, Restaurant, and Warehouse Retail	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Other Retail Sales, Rental, or Leasing Not Listed Above without Drive-Through	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Tobacco, Vape, and Cannabinoid Retailers	NP	NP	NP	PL	PL	NP	PL	NP	PL	PL	NP	NP	PL	NP
Veterinary Clinic, Animal Hospital, or Non-Agricultural Kennel	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Other Personal Service or Repair Uses Not Listed Under any Use Category	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Other Art or Artisan Uses Not Listed Under any Use	NP	P	P	P	P	P	P	NP	P	P	NP	NP	P	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Category without Drive-Through														
Self-Service Storage Facilities	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	PL	NP	NP	NP
Motor Vehicle Body Shop	NP	NP	NP	NP	NP	NP	NP	NP	P	P	P	NP	NP	NP
Motor Vehicle Maintenance, Repair, Fuel Sales, Service or Cleaning, other than Car Wash	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	PL	NP	NP	NP
Car Wash	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	PL	NP	PL	NP
Gasoline Sales Facility or Fuel Sales	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	PL	NP	PL	NP
Motor Vehicle Sales, Rental, or Leasing	NP	NP	NP	NP	PL	NP	PL	NP	PL	PL	NP	NP	NP	NP
Motor Vehicle Storage	NP	NP	NP	NP	NP	NP	NP	NP	P	P	P	NP	NP	NP
Tire Sales	NP	NP	NP	NP	P	NP	P	NP	P	P	P	NP	NP	NP
Towing Service	NP	NP	NP	NP	NP	P	NP	P	P	P	NP	NP	NP	NP
Other Motor Vehicle - Related Use Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Manufactured Home Sales	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP	NP
Sale of building and construction materials, special trade tools, welding supplies, machine parts,	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
electrical supplies, janitorial supplies, restaurant equipment, store fixtures, Other Wholesale Sales Uses Not Listed Under any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP	NP
Business Office, Business Incubator or Professional Office	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Conference Center or Office with Conference Center (non-Civic)	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Co-Working Space	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Financial Institution or Financial Services	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Office with Drive-Through Facilities	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	NP
Non-Banking Financial Institution	NP	NP	NP	PL	PL	PL	PL	NP	PL	PL	NP	NP	PL	NP
Radio / Television / Recording Studio or Station without Communications Tower	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Other Business / Government / Non-Profit Office Uses Not Listed Under any Use Category	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Dental Office / Dental Clinic, Medical Office / Medical Clinic / Outpatient Clinic, or Medical or Dental Lab	NP	NP	NP	P	P	P	P	NP	P	P	NP	NP	P	NP
Asphalt Plant or other Facilities for Manufacture and Storage of Chemials, Petroleum Products, Explosives, and Allied Products	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL CU	NP	NP	NP
Concrete Batch or Concrete Manufacturing Plant	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL CU	NP	NP	NP
Hazardous & Low-Level Nuclear Disposal & Storage	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL CU	NP	NP	NP
Wrecking, Junk, & Salvage Yards, & Scrap Operations	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL CU	NP	NP	NP
Tile or Brick Manufacturing	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL CU	NP	NP	NP
Automobile, Truck, or Tire Manufacturing or Assembly	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL CU	NP	NP	NP
Ammonia or Chlorine Manufacturing	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Metal Casting or Foundries	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Gas Manufacturing	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Metal or Metal Ore Production, Refining, Smelting, or Alloying	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Petroleum or Petroleum Product Storage or Refining	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Boat, Pool, or Spa Manufacturing	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NN	NP	NP
Keeping, Selling, or Slaughtering of Animals	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Glass Manufacturing	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Paper Manufacturing	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Manufacturing of Materials into Compost	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Rail Equipment Storage / Repair	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Railroad Freight Yard	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Sawmill	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Wood or Lumber Processing	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Animal processing, Rendering, Packing, Treating, and Storage	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Livestock Slaughtering	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Processing of Food and Related Products	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Sale of Farm Equipment and Machinery and Earth Moving and Heavy Construction Equipment	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	CU	NP	NP	NP
Production of Chemical, Rubber, Leather, Clay, Bone, Plastic, Stone, or Glass Materials or Products	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Other Heavy Industrial Not Listed in any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	CU	NP	NP	NP
Brewery, excluding Brewpubs	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Bottling Plants	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Building Systems / Construction Business	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Carpet cleaning plants or manufacturing	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Catering Service or Catering Events Establishment	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Textile Manufacturing	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Commercial bakery	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Contractor Materials Sales	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Crematorium	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Dairy Plant	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Distillery	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Distribution / Distribution Facility	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Dry Cleaning Plants	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Equipment Rental	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Fabrication, work, or storage on-site by building, heating, plumbing, electrical, or general contractors, and others who preform off site services	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Food Processing plants	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Horticulture and Landscaping Services	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Ice plant	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Institutional bakeries	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Laundry Plant	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Light Manufacturing Plant	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Machine Shop / Woodworking Shop, other than Artisan Establishment	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Maintenance yard or facility	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Manufacture or assembly of equipment, instruments (including musical instrument	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Non-Hazardous Waste Treatment or Disposal	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Outdoor Storage	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Printing, Publishing, and lithography	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Production of artwork	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Rail Equipment Storage / Repair	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Recycling Processing Facility	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Repair of scientific or professional instruments, electric motors;	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Regional recycling center;	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Research Laboratory / Research & Development	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Sheet metal shop	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Soft drink bottling	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Solid Waste Facility	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Warehouse / Warehousing	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Welding, machine, tool repair shop	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Winery	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Woodworking, including cabinet makers and furniture manufacturing, but excluding Artisan Establishments	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Other Light Industrial Not Listed in any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Bulk storage, including nonflammable liquids, feed and grain storage	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Bus barn	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Cold storage plants, frozen food lockers,	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Household moving and general freight storage	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Separate warehouse used by Retail store such as a furniture or appliance store	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Stockpiling of sand, gravel, or other aggregate materials	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	NP	NP	NP
Transfer and storage Business with no individual storage areas or where employees are the primary movers of the goods	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Other Warehouse & Freight Movement Not Listed in any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP
Animal waste processing	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP
Septic Equipment Installation, Service, or Cleaning	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP
Landfill	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP
Incinerator	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP
Manufacture and production of goods from composting organic material	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP
Recyclable material storage, including construction material	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP
Recycling center	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP
Transfer station	NP	NP	NP	NP	NP	NP	NP	NP	NP	PL	PL	NP	NP	NP
Recycling Station	NP	NP	NP	NP	NP	NP	NP	NP	NP	P	P	NP	NP	NP

TABLE 4.3.9.A-1 BUILDING, LOT & BUILDING SITE PRINCIPAL USE

PRINCIPAL USE	CD-2	CD-3 L	CD-3	CD-4	CD-4C	CD-5	CD - 5C	SD-MHP	SD-INT	SD-LI	SD-HI	PUD - R	PUD-MU	CV
Other Waste-Related Service Not Listed in any Use Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Utility Facilities	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL	PL
Utility Transmission Line	PL	PL	NP	NP	NP	NP	NP	NP	PL	PL	PL	PL	PL	NP
Wireless Communication Facility	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU	CU
Other Utilities Use Not Listed Under any other Category	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
Adult - Oriented Establishment	NP	NP	NP	NP	NP	NP	NP	NP	PL	NP	NP	NP	NP	NP

B. Uses Permitted by Right

Principal Uses, Accessory Uses, or Temporary Uses, as applicable, of Buildings, Lots, and Building Sites, which are indicated for each District **in Table 4.3.9.A-1 (Building, Lot & Building Site Principal Uses), Table 4.3.9.A-2 (Building, Lot & Building Site Accessory Uses),** or **Table 4.3.9.A-3 (Building, Lot & Building Site Temporary Uses)** as Permitted ("P") are allowed by right, subject to compliance with all other applicable provisions of this Ordinance.

C. Required Uses

1. **Commercial Corridors**

Within the CD-4C Character District, Principal Buildings on any Lot or Building Site located within 400 feet of a Thoroughfare with a Functional Classification of Arterial must contain a Retail Sales or Service use, Restaurant use, Arts-Related Use, or Office use for the entire ground floor. Any permitted use may be established on second, third, and fourth stories of a Principal Building.

2. **Downtown Pedestrian Streets**

Buildings enfronting the following rights of way must contain a retail sales or service use, restaurant use, arts-related use, or office use at the sidewalk level through the depth of the second layer for at least 80 percent of the building frontage.

a. Public Square;

b. North Main Street between West 4th Street and Public Square;

c. South Main Street between Public Square and West 9th Street, inclusive of all building sites with frontage at the corners of South Main and West 9th street;

d. North Garden Street between West 6th Street and West 7th Street, inclusive of all building sites with frontage at the corners of North Garden Street and West 6th Street;

e. North Garden Street between West 7th Street and West 9th Street, inclusive of all building sites with frontage at the corners of South Garden Street and West 9th Street;

f. South High Street between West 7th Street and West 9th Street, inclusive of all building sites with frontage at the corners of South High Street and West 7th Street, all building sites with frontage at the corners of South High Street and West 8th Street, and all building sites with frontage at the corners of South High Street and West 9th Street;

g. West 7th Street between Public Square and Frierson Street, inclusive of all building sites with frontage at the corners of Frierson Street and West 7th Street;

h. East 7th Street between Public Square and North Water Street, inclusive of all building sites with frontage at the corners of South Glade Street and East 7th Street;

i. West 6th Street between North Main Street and Woodland Street, inclusive of all building sites with frontage at the corners of West 6th Street and Woodland Street;

j. West 6th Street between North Main Street and North Garden Street; and

k. West 8th Street between South Garden and South Glade Street, inclusive of all building sites with frontage at the corners of West 8th Street and South Garden Street as well as all building sites with frontage at the corners of West 8th Street and South Glade Street.

D. Prohibited Uses

1. Except as otherwise determined by the Zoning Administrator pursuant to Section 8.5.8 with respect to a Use that is not specifically listed as Permitted ("P"), Permitted Subject to Limited Conditions ("PL"), or as a Conditional Use ("CU") in **Table 4.3.9.A-1 (Building & Lot Principal Uses)**, **Table 4.3.9.A-2 (Building, Lot & Building Site Accessory Uses), or Table 4.3.9.A-3 (Building, Lot & Building Site Temporary Uses),** as applicable, any Use that is not specifically listed as Permitted ("P"), Permitted Subject to Limited Conditions ("PL"), or as a Conditional Use ("CU"), and any Use that is specifically listed Not Permitted ("NP") in such applicable Table or is otherwise prohibited pursuant to any other provision of the City Code, is prohibited.
2. In the CD-4C Character District, all uses listed under the heading Residential Uses Category on **Table 4.3.9.A-1** are prohibited on the entire ground floor of any Building located within 400 feet of a Thoroughfare with a Functional Classification of Arterial. Any permitted use may be established on second, third, and fourth stories of a Principal Building.

E. Uses Permitted Subject to Limited Use Standards & Conditional Uses

1. Any Principal Use, Accessory Use, or Temporary Use shown for the applicable District as Permitted Subject to Limited Use Standards ("PL") on **Table 4.3.9.A-1 (Building & Lot Principal Uses), Table 4.3.9.A-2 (Building & Lot Accessory Uses), or Table 4.3.9.A-3 (Building & Lot Temporary Uses),** is allowed subject to compliance with all applicable conditions and requirements imposed by this Section 4.3.9.D and Section 4.3.9.4.h.
2. Any Principal Use, Accessory Use, or Temporary Use shown for the applicable District as Conditional Use (CU") on **Table 4.3.9.A-1 (Building, Lot, & Building Site Principal Uses), Table 4.3.9.A-2 (Building, Lot, & Building Site Accessory Uses), or Table 4.3.9.A-3 (Building, Lot, & Building Site Temporary Uses),** is allowed subject to

Section 13

Zoning Reference City of Columbia FLUM to Zoning Matrix

Future Land Use Classification	Zoning Character District
Technology Employment Center (TEC)	SD-LI (Light Industrial) SD-HI (Heavy Industrial) SD-INT (Interstate)* PUD-R/PUD-MU CV Civic
Hillsides & Natural Spaces (HNS)	CD-2 (Rural) CV Civic Residential PUD PUD-R
Rural Transition (RT)	CD-2 (Rural) CV Civic
Suburban Neighborhoods (SN)	CD-3L (Neighborhood-Large Lot) CD-3 (Neighborhood) CD-4C (General Urban-Corridor) ** PUD-R/PUD-MU CV Civic
City Center Urban Village (CCUV)	CD-3 (Neighborhood)† CD-4 (General Urban) CD-4C (General Urban-Corridor) ** CD-5 (Urban Center) CD-5C (Urban Center-Corridor) †† PUD-R/PUD-MU CV Civic

* SD-INT is limited to parcels within 3,960 feet of an Interstate, Freeway, or other limited access highway identified in the Transportation Plan.

** CD-4C is limited to parcels identified as Facilitate or Activate on the Areas of Change map which have direct access onto a public right-of-way classified as principal arterial or minor arterial in the Transportation Plan.

† CD-3 is consistent with CCUV only where the Neighborhood Character District is compatible with the established land use pattern in the surrounding area.

†† CD-5C is limited to parcels identified as Activate on the Areas of Change map which have direct access to a Principal Arterial identified in the Transportation Plan.

Section 14

240801 23079 Old Glory Columbia Combined – ADD 02

OLD GLORY RESTAURANT

CONSTRUCTION DOCUMENTS

TRADEWINDS DR.
PARCEL 33.35
COLUMBIA, TN



NOTE: CONSTUCTION DOCUMENTS ARE DESIGNED TO FOOD SERVICE DRAWINGS PROVIDED (FOR REFERENCE ONLY). COORDINATE OWNER PROVIDED KITCHEN EQUIPMENT WITH CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN & INSTALLATION.

Paradym. STUDIO

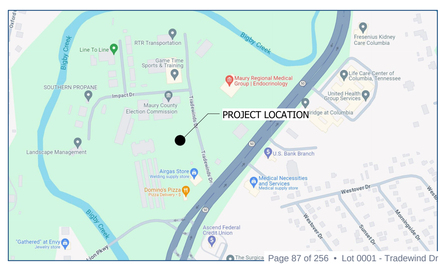
CONSTRUCTION DOCUMENTS

12.22.23

CLIENT	SALAH ABDALA | OLD GLORY TRADEWINDS DR., PARCEL 33.5 COLUMBIA TN
EXISTING ZONING:	CD4C
PROPOSED USE:	A-2 (RESTAURANT)
BUILDING SF | LAND AREA	3775 SF
CONTACTS	
ARCHITECT	PARADYM STUDIO, PLLC 761 OLD HICKORY BLVD STE 301 BRENTWOOD, TN 37027 ARCHITECT: WILL PARKER, RA, NCARB TN LICENSE #: 107418 EMAIL: WPARKER@PARADYM.STUDIO
CIVIL/LANDSCAPE ENGINEERING	INGRAM CIVIL ENGINEERING GROUP 212 OVERLOOK CIRLCE, SUITE 105 BRENTWOOD, TN 37027 ENGINEER: CURTIS INGRAM (BUBBA), PE BINGRAM@INGRAMCIVIL.COM TN LICENSE #: 104476 CONTACT: SHAWN SIMPSON EMAIL: SSIMPSON@INGRAMCIVIL.COM
MEP ENGINEERING	INSIGHT ENGINEERING, PLLC 400 SUGARTREE LANE, SUITE 420 FRANKLIN, TN 37067 MECHANICAL & PLUMBING ENGINEERING ENGINEER: CHRIS LEHMAN, PE, LEED AP EMAIL: CHRIS.LEHMAN@INSIGHT-ENGR.COM TN LICENSE #: 111457 ELECTRICAL ENGINEERING PARSONS ENGINEERING ENGINEER: ANTHONY PEZZI TN LICENSE #: 106079
STRUCTURAL ENGINEERING	CHAD STEWART & ASSOCIATES, INC. 176 THOMPSON LANE, SUITE 103 NASHVILLE, TN 37211 ENGINEER: TAYLOR KIDWELL, PE EMAIL: TAYLORK@CSAENGINEERINGINC.COM TN LICENSE #: 118887
KITCHEN DESIGNER	DRS FOODSERVICE DESIGN 750 OLD HICKORY BLVD. SUITE 140 BRENTWOOD, TN 37027 CONTACT: RICK PALMER, F.S.C.I. & J.S.I. EMAIL: RICK@DRSDESIGN.SOLUTIONS
SIGNAGE VENDOR	MR PRINTING 3316 NOLENSVILLE PIKE NASHVILLE, TN 37211 CONTACT: BISHOY SAAD EMAIL: EBICHOY@GMAIL.COM

SCOPE OF WORK

1. NEW ONE STORY 3,775 SF BRICK BUILDING FOR RESTAURANT WITH DINING AREA AND KITCHEN
2. REWORKED SITE GRADING WITH NEW RETAINING WALLS AND NEW PARKING LOT; SEE SEPARATE CIVIL PACKAGE



ABBREVIATIONS

&	AND
L	ANGLE
@	AT
CL	CENTERLINE
DIA.	DIAMETER
PERP.	PERPENDICULAR
C	CHANNEL
#	POUND OR NUMBER
ACT	ACOUSTICAL CEILING TILE
A.D.	AREA DRAIN
ADJ.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AGGR.	AGGREGATE
AL.	ALUMINUM
APPROX.	APPROXIMATE
ARCH.	ARCHITECTURAL
ASB.	ASBESTOS
ASPH.	ASPHALT
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.O.	BOTTOM OF
BOT.	BOTTOM
B.R.	BULLET RESISTANT
B.T.B.	BACK TO BACK
CAB.	CABINET
C.B.	CATCH BASIN
CEM.	CEMENT
CER.	CERAMIC
C.I.	CAST IRON
CL	CENTER LINE
CLG.	CEILING
CLO.	CLOSET
CLR.	CLEAR
CMU	CONCRETE MASONRY UNIT
COL.	COLUMN
CONC.	CONCRETE
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CORR.	CORRIDOR
CTSK.	COUNTERSUNK
CNTR.	COUNTER
CT	CERAMIC TILE
CTR.	CENTER
DBL.	DOUBLE
DEPT.	DEPARTMENT
D.F.	DRINKING FOUNTAIN
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
D.O.	DOOR OPENING
DR.	DOOR
DWR.	DRAWER
DS.	DOWNSPOUT
D.S.P.	DRY STANDPIPE
DWG.	DRAWINGS
E	EXISTING
(E)	EXISTING
EA.	EACH
E.J.	EXPANSION JOINT
EL.	ELEVATION
ELEC.	ELECTRICAL
ELVTR.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANEL
EQ.	EQUAL
EQPT.	EQUIPMENT
E.W.C.	ELECTRIC WATER COOLER
EXIST./EXG	EXISTING
EXPO.	EXPOSED
EXP.	EXPANSION
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.B.	FLAT BAR
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.A.	FIRE EXTINGUISHER
F.A.C.	FIRE EXTINGUISHER CABINET
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
F.O.	FACE OF
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.S.	FACE OF STUDS
F.P.R.	FIRE PROTECTION RISER
FPRF.	FIREPROOF
FRT	FIRE RETARDANT TREATED
F.S.	FULL SIZE
FT.	FOOT OR FEET
F.TR.	FIRE TREATED
FTG.	FOOTING
FURR.	FURRING
F&I	FURNISH AND INSTALL
FUT.	FUTURE
GA.	GAUGE
GALV.	GALVANIZED
G.B.	GRAB BAR
G.C.	GENERAL CONTRACTOR
GL.	GLASS/GLAZING
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
GWB.	GYPSUM WALL BOARD
H.B.	HOSE BID
H.C.	HOLLOW CAB
HDWD.	HARDWOOD
HDWE.	HARDWARE
HDWR.	HARDWARE
H.M.	HOLLOW METAL
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
HGT.	HEIGHT
I.D.	INSIDE DIAMETER (DIM.)
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
KIT.	KITCHEN
LAB.	LABORATORY
LAM.	LAMINATE
LAV.	LAVATORY
LKR.	LOCKER
LT.	LIGHT
MAX.	MAXIMUM
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MEMB.	MEMBRANE
MTL.	METAL
MFR.	MANUFACTURER
MH.	MANHOLE
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MTD.	MOUNTED
MUL.	MULLION
N.	NEW
N.I.C.	NOT IN CONTRACT
NO. or #	NUMBER
NR.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.A.	OVERALL
OBS.	OBSCURE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER (DIM.)
OFF.	OFFICE
OPNG.	OPENING
OPP.	OPPOSITE
P.	PAINT
PF	PRE-FINISHED
PTD	PAINTED
PRCST.	PRECAST
PL.	PLATE
P.LAM.	PLASTIC LAMINATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
PR.	PAIR
PT.	POINT
P.T.D.	PAPER TOWEL DISPENSER
P.T.D/R	COMBINATION PAPER TOWEL DISPENSER AND RECEPTACLE
Q.T.	QUARRY TILE
R	RISER OR RELOCATE
RAD.	RADIUS
R.D.	ROOF DRAIN
REF.	REFERENCE
REFR.	REFRIGERATOR
RGTR.	REGISTER
REINF.	REINFORCED
REQ'D.	REQUIRED
RESIL.	RESILIENT
RM.	ROOM
R.O.	ROUGH OPENING
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER
S.	SOUTH
S.A.F.B.	SOUND ATTENUATION FIRE BLANKETS
S.C.	SOLID CORE
S.C.D	SEAT COVER DISPENSER
SCHED.	SCHEDULE
S.D.	SOAP DISPENSER
SECT.	SECTION
SH.	SHELF
SHR.	SHOWER
SHT.	SHEET
SIM.	SIMILAR
S.N.D.	SANITARY NAPKIN DISPENSE
S.N.R.	SANITARY NAPKIN RECEPTACLE
SNT.	SEALANT
S.O.B.	SYMBOL ON BACKGROUND
SPEC.	SPECIFICATION
SQ.	SQUARE
S.S.	STAINLESS STEEL
S.SK.	SERVICE SINK
STA.	STATION
STD.	STANDARD
STD	STAINED
STL.	STEEL
STOR.	STORAGE
STRL.	STRUCTURAL
STRUCT.	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T.	TREAD
T.B.	TOWEL BAR
T.B.D	TO BE DETERMINED
T.C.	TOP OF CURB
TEL.	TELEPHONE
TER.	TERRAZZO
T.&G.	TONGUE AND GROOVE
THK.	THICK
T.O.C	TOP OF CONCRETE
T.O.P.	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
T.V.	TELEVISION
T.W.	TOP OF WALL
TYP.	TYPICAL
UNF.	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
V.C.T.	VINYL COMPOSITION TILE
VERT.	VERTICAL
VEST.	VESTIBULE
V.I.F.	VERIFY IN FIELD
W.	WEST
W/	WITH
W.C.	WATER CLOSET
WD.	WOOD
W/O	WITHOUT
WP.	WATERPROOF
WSCT.	WAINSCOT
WT.	WEIGHT

GENERAL NOTES

THE FOLLOWING NOTES SUPPLEMENT AND ADD TO THE DRAWINGS AND SPECIFICATIONS. IF THERE IS ANY CONFLICT, AMBIGUITY, ETC., CREATED BY ANY NOTE, THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR ADDITIONAL CLARIFICATION. UNTILL THE ARCHITECT CAN PROVIDE REQUESTED CLARIFICATIONS, CONTRACTOR SHALL ACCOUNT FOR THE MORE STRINGENT REQUIREMENT.

1. **GENERAL STANDARDS**: ALL WORK DEFINED HEREIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS AND SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. WORK PERFORMED IN THE SHOP OR ON-SITE SHALL BE PERFORMED BY MECHANICS, CRAFTSMEN AND WORKERS SKILLED AND EXPERIENCED IN THE FABRICATION AND INSTALLATION OF THE WORK INVOLVED. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BEST ESTABLISHED PRACTICES OF THE INDUSTRY STANDARD FOR THE TRADE INVOLVED.
2. **FEES AND PERMITS**: THE GENERAL CONTRACTOR SHALL OBTAIN ALL LICENSES AND PERMITS REQUIRED BY THE JURISDICTION AND/OR ITS AGENCIES, NOT WITHSTANDING LICENSES AND PERMITS THAT MAY BE REQUIRED OF RESPECTIVE SUBCONTRACTORS. THE COST OF SAID LICENSES AND PERMITS SHALL BE INCURRED BY THAT CONTRACTOR RESPONSIBLE FOR THE PROCUREMENT OF SAME
3. **DRAWINGS AND SPECIFICATIONS**: THE GENERAL CONTRACTOR SHALL MAINTAIN A COMPLETE AND CURRENT SET OF PROJECT DOCUMENTS, DRAWINGS AND SPECIFICATIONS ON THE JOB SITE AT ALL TIMES AND SHALL INCLUDE ALL APPROVED SHOP DRAWINGS AND SUBMITTALS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF ADEQUATE COPIES OF ALL DRAWINGS AND SPECIFICATIONS TO ALL APPLICABLE TRADES. UPON COMPLETION OF THE WORK, THE GENERAL CONTRACTOR SHALL SUBMIT ONE COMPLETE SET OF RED-LINED DRAWINGS TO PARADYM INDICATING ANY AND ALL CHANGES, OMISSIONS, OR MODIFICATIONS MADE.
4. **ENGINEERED DRAWINGS**: REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS (WHEN PROVIDED) FOR DETAILED DESIGN OF THE STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS. PORTIONS OF THIS WORK MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS FOR REFERENCE TO, AND IN COORDINATION WITH, OTHER WORK.
   A. WHEN INDICATED ON THE DRAWINGS, THE GENERAL CONTRACTOR SHALL PROVIDE ENGINEERING DRAWINGS ON A DESIGN/BUILD BASIS FOR MECHANICAL SYSTEMS, ELECTRICAL SYSTEMS AND PLUMBING. PROVIDE ONE COPY OF ALL DRAWINGS TO PARADYM FOR REVIEW PRIOR TO CONSTRUCTION.
   B. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REQUIRED PERMITS AND APPROVALS NECESSARY FOR THE WORK AS DESCRIBED ABOVE. PRECEDENCE: THE ARCHITECTURAL DRAWINGS SHALL PRECEDE THE ENGINEERED DRAWINGS (IF PROVIDED) RELATIVE TO DEVICE AND FIXTURE LOCATIONS.
5. **OMISSIONS AND DISCREPANCIES**: THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE DRAWINGS, AND SHALL NOTIFY PARADYM OF ANY DISCREPANCIES, OMISSIONS OR CONFLICTS PRIOR TO COMMENCING WITH CONSTRUCTION.
6. **SIMILAR CONDITIONS:**
   1. WHERE A DETAIL OR SECTION IS SHOWN FOR ONE CONDITION, IT APPLIES TO ALL LIKE OR SIMILAR CONDITIONS.
7. **MATERIALS:**
   1. ALL EXTERIOR WOOD BLOCKING, SHEATHING, OR BRACING SHALL BE TREATED PER THE IBC.
   2. ALL INTERIOR WOOD FRAMING, BLOCKING, SHEATHING, OR BRACING SHALL BE FIRE-RETARDANT TREATED WOOD PER THE IBC.
   3. IT IS THE INTENT OF THE ARCHITECT AND OWNER THAT ALL BUILDINGM ATERIALS USED IN AND DURING CONSTRUCTION SHALL BE NON-HAZARDOUS. SHOULD NEW MATERIALS BE FOUND TO BE HAZARDOUS, THE CONTRACTOR SHALL NOTIFY THE LOCAL AUTHORITY HAVING JURISDICTION AND PROCEED PER THEIR DIRECTIVES.
   4. SEE BUILDING ELEVATIONS AND SPECIFICATIONS FOR LOCATION AND SPACING OF REQUIRED CONTROL JOINTS.
8. **SITE WORK:**
   1. PRIOR TO CLEARING AND GRUBBING, PROVIDE SURFACE SIDE DEWATERING BY TEMPORARY DITCHING, SUMPING, OR OTHER APPROVED METHODS. RETAIN AND MAINTAIN TEMPORARY METHODS UNTIL PERMANENT DRAINAGE SYSTEMS (STORM DRAINS, SWALES, ETC.) ARE INSTALLED.
   2. CONTRACTOR TO PROVIDE DUMPSTER FOR CONSTRUCTION DEBRIS.
   3. CONSTRUCTION SITE SHALL BE KEPT CLEAN AND HAZARD FREE.
9. **COORDINATION:**
   1. CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND FEES THAT MAY BE REQUIRED BY AUTHORITIES HAVING JURISDICTION.
   2. COORDINATING ROUTING OF THE CONTRACTOR'S WORK WITH OTHER TRADES IS ESSENTIAL, AND ANY EXPENSE REQUIRED FOR THE REMOVAL OR RELOCATION SHALL BE BORNE BY THE CONTRACTOR.
   3. REFER TO CIVIL DRAWINGS FOR SITE UTILITIES AND SITE DRAINAGE.
   4. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR SIDEWALK, CURB, RETAINING WALLS, AND OTHER SITE IMPROVEMENTS.
10. **MATERIALS**: UNLESS OTHERWISE SPECIFIED, ALL MATERIALS SHALL BE NEW, UNUSED, AND IN COMPLIANCE WITH THE SPECIFICATIONS SET FORTH IN THESE DOCUMENTS. ALL MATERIALS USED THROUGHOUT THE PROJECT SHALL BE OF THE SAME BRAND NAME AND QUALITY FOR CONSISTENCY. ALL MATERIALS MUST MEET THE ASTM AND ANSI STANDARDS AND BE IN COMPLIANCE WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS.
11. **MATERIAL INVENTORY**: UPON AWARD OF THE CONSTRUCTION CONTRACT, AND WHEN BUILDING MATERIALS ARE STOCKED AND MADE AVAILABLE FOR THE PROJECT, COORDINATE WITH THE BUILDING REPRESENTATIVE FOR PURCHASE OF MATERIALS.
12. **SUBMITTALS/DEVIATIONS**: NO SUBSTITUTIONS, VARIATIONS AND DEVIATIONS FROM THESE DOCUMENTS SHALL BE PERMITTED WITHOUT PRIOR APPROVAL OF PARADYM STUDIO, THE BUILDING AND/OR TENANT'S REPRESENTATIVE. APPLICATION FOR ANY SUBSTITUTIONS AND/OR VARIATIONS SHALL BE SUBMITTED TO PARADYM BY THE GENERAL CONTRACTOR FOR APPROVAL. APPLICATION SHALL BE MADE IN WRITING ACCOMPANIED WITH PRODUCT SPECIFICATIONS AND/OR SAMPLES. THREE COMPLETE SETS OF SUBMITTALS ARE REQUIRED - ONE INTERIOR AND TWO EXTERIOR SETS.
13. **DIMENSIONS:**
   a. THE GENERAL CONTRACTOR, SUBCONTRACTORS AND ALL EMPLOYEES ON THIS PROJECT ARE NOT ALLOWED TO SCALE DRAWINGS TO DETERMINE DISTANCES OR DIMENSIONS. IF FURTHER DIMENSIONING IS REQUIRED, THE CONTRACTOR SHALL REQUEST IN WRITNG FOR WRITTEN CLARIFICATION BY THE ARCHITECT.
   b. EXTERIOR DIMENSIONS ARE GIVEN FACE OF EXTERIOR FINISH, UNLESS NOTED OTHERWISE. INTERIOR DIMENSIONS ARE GIVEN TO FACE OF CMU, FACE OF BRICK, OR FACE OF STUD UNLESS NOTED OTHERWISE.
   c. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, GRADE PITCHES AND OTHER CONDITIONS BY TAKING MEASUREMENTS PRIOR TO ORDERING MATERIALS OR DOING WORK. REFER DISCREPANCIES TOT HE ARCHITECT FOR ADDITIONAL INSTRUCTIONS. THE CONTRACTOR IS RESPONSIBLE FOR MEASUREMENTS. NO CONSIDERATION WILL BE GIVEN TO ANY CLAIM BASED ON DIFFERENCES BETWEEN DRAWINGS OR SPECIFICATIONS AND ACTUAL MEASUREMENTS.
   d. LOCATION AND NUMBERS OF STOREFRONT DOORS SUBJECT TO CHANGE PER TENANT REQUIREMENTS.
14. **SHOP DRAWINGS**: THE GENERAL CONTRACTOR SHALL PREPARE, REVIEW, APPROVE AND SUBMIT SHOP DRAWINGS TO PARADYM STUDIO. THE GENERAL CONTRACTOR SHALL CHECK AND COORDINATE ALL PRODUCT DATA AND SAMPLES AND VERIFY ALL MATERIALS, FIELD MEASUREMENTS AND RELATED FIELD CONSTRUCTION CRITERIA CONTAINED IN SUCH SUBMITTAL CONFORMS TO THE REQUIREMENTS OF THE WORK, AND THE CONTRACT DOCUMENTS. THREE COMPLETE SETS OF SUBMITTALS ARE REQUIRED.
15. **SUBCONTRACTORS**: THE GENERAL CONTRACTOR SHALL COORDINATE AND REVIEW THE WORK OF ALL SUBCONTRACTORS, TRADES AND SUPPLIERS, AND TO MAKE KNOWN ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS, AND TO ASSURE THAT ALL PARTIES ARE FULLY AWARE OF THE REQUIREMENTS, REGARDLESS OF WHETHER THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY. SUBCONTRACTORS SHALL CONFORM TO THE FOLLOWING:
   A. SUBCONTRACTORS SHALL COORDINATE ALL INSTALLATIONS, SCHEDULES, LOCATIONS, DECISIONS, SIZES, AND RESOLVE ALL CONFLICTS AND INTERFERENCES OF THEIR TRADE WITH OTHER TRADES.
   B. SUBCONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING, WITH EACH OTHER UNDER THE GUIDANCE OF THE GENERAL CONTRACTOR, ROUTES OF WATER, SPRINKLER, MECHANICAL AND ELECTRICAL SERVICES.
   C. LIGHT FIXTURES/ FITTINGS, DIFFUSERS/ DUCTS, SPRINKLER HEADS, ETC. AS DEPICTED ON THE DRAWINGS, BOTH ABOVE AND BELOW THE CEILING, WHICH CONFLICT SHALL BE REPORTED IMMEDIATELY. ALL COSTS INCURRED BY THE GENERAL CONTRACTOR OR OTHER SUBCONTRACTORS FOR FAILURE TO REPORT CONFLICTS IMMEDIATELY SHALL BE BORNE BY THE CONTRACTOR.
16. **VENDORS**: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER AND THEIR VENDORS FOR SCHEDULING AND PROVIDING ACCESS TO THE SPACE FOR COMMUNICATIONS/ DATA PROCESSING SYSTEMS, SECURITY SYSTEMS, EQUIPMENT, AND AUDIO/ VIDEO SYSTEMS.
17. **INSPECTIONS**: THE GENERAL CONTRACTOR SHALL PERMIT AND FACILITATE INSPECTION, BY THE OWNER AND THE ARCHITECT OR THEIR REPRESENTATIVES, DURING THE COURSE OF CONSTRUCTION.
18. **DAMAGES**: SHOULD THE GENERAL CONTRACTOR OR ANY ASSOCIATED SUBCONTRACTOR CAUSE DAMAGE TO ANY ADJACENT FIXTURE OR STRUCTURE WHILE COMPLETING OR CLEANING CURRENT CONSTRUCTION, THAT CONTRACTOR OR SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF SAID DAMAGED FIXTURE OR STRUCTURE.
19. **INSURANCE**: THE GENERAL CONTRACTOR SHALL PURCHASE AND MAINTAIN CERTIFICATIONS OF INSURANCE WITH RESPECT TO WORKERS COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE LIMITS AS REQUIRED BY LAW. THE CERTIFICATES SHALL NAME THE CLIENT AND PARADYM STUDIO AS ADDITIONAL INSURED. THE GENERAL CONTRACTOR AND SUBCONTRACTORS PERFORMING WORK ON-SITE SHALL CONFORM TO THE OWNER'S INSURANCE REQUIREMENTS.
20. **GUARANTEE/WARRANTY**: THE GENERAL CONTRACTOR SHALL ENFORCE A SPECIFIC AND UNCONDITIONAL WARRANTY ON ALL MATERIALS, WORKMANSHIP, EQUIPMENT, FIXTURES AND SUB-ASSEMBLIES SUBJECT TO NORMAL USE AND MAINTENANCE FOR A PERIOD NOT TO EXCEED ONE (1) YEAR FROM DATE OF SUBSTANTIAL COMPLETION. SAID WARRANTY SHALL NOT BE EXCLUSIVE OF IMPLIED OR SPECIFIC WARRANTIES ENFORCED BY MANUFACTURERS AND/OR SUPPLIERS OF AFOREMENTIONED MATERIALS, EQUIPMENT, FIXTURES AND/OR SUB-ASSEMBLIES.
21. **SECURITY**: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING AND CONTROLLING ACCESS TO THE JOB SITE DURING CONSTRUCTION AND FOR DISCONNECTING POWER AND LIGHTING WHEN NOT IN USE.
22. **HAZARDOUS MATERIALS**: PARADYM STUDIO HAS NO KNOWLEDGE OF, AND SHALL NOT BE HELD LIABLE FOR, ANY ASBESTOS OR OTHER HAZARDOUS MATERIALS ON THE PROJECT SITE. PRIOR TO COMMENCING WITH THE WORK ON-SITE, IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INSPECT AND MAKE A GOOD FAITH EFFORT TO IDENTIFY THE PRESENCE OF ASBESTOS, TOXIC OR OTHER HAZARDOUS MATERIALS.
23. **CONSTRUCTION REQUIREMENTS**: THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSULTING WITH THE OWNER FOR RULES AND REGULATIONS GOVERNING THE BUILDING AND PERTAINING TO DELIVERIES, REMOVAL OF MATERIALS AND DEBRIS, USE OF BUILDING FACILITIES, NOISE RESTRICTIONS, PROTECTION OF EXISTING CONDITIONS, HOURS OF OPERATION, BUILDING ACCESS, ETC.
24. **CLEANING**: THE GENERAL CONTRACTOR SHALL CLEAN THE JOB SITE AND ADJOINING AREAS DURING CONSTRUCTION AND UPON COMPLETION. CLEANING INCLUDES, BUT IS NOT LIMITED TO, VACUUMING CARPETS; WET MOPPING FLOOR TILE AND OTHER RESILIENT FLOORING; CLEANING ALL GLASS, INCLUDING INTERIOR SIDE OF EXTERIOR GLAZING; DUSTING AND WIPING CLEAN ALL LINT AND SOILED AREAS ON DOORS, MILLWORK, WINDOW COVERINGS, BASEBOARD, ETC.; REMOVING ALL CONSTRUCTION DEBRIS, SCRAPS, MATERIALS AND EQUIPMENT; AND WATER SEAL ALL MARBLE, GRANITE AND CERAMIC TILE AND GROUT.
25. **FIRE RESISTIVE STANDARDS**: CONFORM TO THE FOLLOWING:
   1. MATERIALS AND ASSEMBLIES REQUIRED TO BE FIRE RESISTIVE SHALL BEAR A LABEL AFFIXED TO THE PRODUCT INDICATING FIRE RESISTIVE RATING AND TESTING AGENCY WITH APPROVED TEST CERTIFICATION NUMBER
   2. ALL BLOCKING AND NAILER STRIPS USED IN CONNECTION WITH FIRE RESISTIVE PARTITIONS SHALL BE FIRE RETARDANT WOOD AS DEFINED BY THE BUILDING CODE.
   3. FIRE RATINGS OF EXISTING MATERIALS AND/OR SYSTEMS WHICH MAY BECOME DAMAGED OR MODIFIED DUE TO THE WORK SHALL BE MAINTAINED WITH A FIRE RATING EQUAL TO OR GREATER THAN THE EXISTING RATING.
   4. ALL PIPE AND CONDUIT PENETRATIONS IN FIRE RATED PARTITIONS AND FLOORS/CEILINGS SHALL BE SEALED IN ACCORDANCE WITH A U.L. LISTED "FIRE STOP" COMPATIBLE WITH THE MATERIAL AND FIRE RATING REQUIRED.
   5. FLAME-SPREAD: MINIMUM RATINGS FOR FLAME SPREAD SHALL BE AS FOLLOWS:
      1. ENCLOSED VERTICAL EXIT WAYS: CLASS I (0-25 F.S.I.)
      2. OTHER EXIT WAYS: CLASS II (26-75 F.S.I.)
      3. ROOMS OR AREAS: CLASS III (76-200 F.S.I.)
26. **ARCHITECTURAL WOODWORK**: PROVIDE ARCHITECTURAL WOODWORK AS SPECIFIED ON THE DRAWINGS. THE "QUALITY STANDARDS" OF THE ARCHITECTURAL WOODWORK INSTITUTE SHALL APPLY AND HEREBY MADE A PART OF THIS DOCUMENT. ALL PREFABRICATED WORK SHALL BE ECONOMY GRADE. ALL OTHER WORK SHALL BE CUSTOM GRADE AS DEFINED BY THE QUALITY STANDARDS OF THE AWI, UNLESS NOTED OTHERWISE.
27. **SURFACE PREPARATION**: INSPECT EXISTING CONDITIONS OF ALL FLOOR AND WALL SURFACES FOR VOIDS, HOLES, CRACKS, AND OTHER DAMAGES AND MAKE REPAIRS. GRIND AND/OR FILL IMPERFECTIONS, FILL HOLES, CRACKS, AND OTHER DAMAGES PRIOR TO INSTALLATION. THE GENERAL CONTRACTOR SHALL PROVIDE BUDGET FOR FLOOR PREP AS REQUIRED. THE GENERAL CONTRACTOR SHALL PROVIDE RH MOISTURE TESTING FOR ANY CONCRETE LOCATIONS LESS THAN ONE YEAR OLD AND FOR ALL SLAB ON GRADE (REGARDLESS OF AGE) LOCATIONS. THE CONTRACTOR SHALL REVIEW ALL MANUF'S REQ'S. AND REC'S FOR SUBSTRATE REQUIREMENTS. SURFACE PREPARATION INCLUDES ELIMINATION OF UNLEVEL SURFACES TO THE DEGREE THAT THE CONDITIONS CONFORM TO THE A.D.A. SEE CHANGES IN LEVEL DETAIL ON SHEET G003.
28. **CLEARANCES**: THE GENERAL CONTRACTOR SHALL VERIFY CEILING HEIGHT AND CLEARANCES ABOVE CEILING TO THE UNDERSIDE OF STRUCTURE ABOVE FOR INSTALLATION OF DUCTWORK AND DIFFUSERS; CONDUITS AND JUNCTION BOXES; FIRE SPRINKLER PIPES AND HEADS; AND LIGHT FIXTURES. ALL WORK SHALL BE COORDINATED BY ALL TRADES TO AVOID INTERFERENCE WITH METHODS OF INSTALLATION. NOTIFY PARADYM STUDIO OF CONFLICTS IMMEDIATELY AND PRIOR TO COMMENCING WITH CONSTRUCTION.
29. **FIRE SPRINKLER SYSTEM**: THIS BUILDING IS FULLY SPRINKLERED. FURNISH ALL LABOR, MATERIALS, FIXTURES, TRIM, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING FIRE SPRINKLER SYSTEM. ALL WORK SHALL CONFORM TO THE FOLLOWING:
   1. PROVIDE FIRE SPRINKLER HEADS AS REQUIRED FOR NEW CONDITIONS AS SHOWN ON THE APPROVED SPRINKLER DRAWINGS.
   2. DESIGN STANDARDS, MATERIALS AND WORKMANSHIP SHALL BE COMPATIBLE WITH EXISTING CONDITIONS AND APPLICABLE CODES.
   3. INSTALL NEW SPRINKLER HEAD LOCATIONS IN THE CENTER OF THE CEILING BOARD OR SECTION AND SYMMETRICAL THROUGHOUT ROOMS AND OPEN AREAS.
30. **FIRE/SMOKE ALARM SYSTEMS**: THIS BUILDING WILL HAVE A FIRE AND SMOKE ALARM SYSTEMS. FURNISH ALL LABOR, MATERIALS, FIXTURES, TRIM, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING FIRE/SMOKE ALARM SYSTEM. ALL WORK SHALL CONFORM TO THE FOLLOWING:
   1. NEW FIRE ALARMS, SMOKE OR HEAT DETECTORS, STROBE ALARMS, PULL STATIONS, REMOTE INDICATOR LIGHTS AND OTHER COMPONENTS OF THE SYSTEM AS REQUIRED FOR NEW CONDITIONS OF THE SPACE.
   2. LOCATIONS AND SPECIFICATIONS OF ALARMS SHALL COMPLY WITH THE AMERICANS WIT DISABILITIES ACT (ADA).
31. **FIRE EXTINGUISHERS:** PROVIDE PORTABLE, WALL MOUNTED FIRE EXTINGUISHERS EVERY 75' OF EXIT TRAVEL DISTANCE THROUGHOUT LIMIT OF CONSTRUCTION OR AS REQUIRED BY THE LOCAL FIRE DEPARTMENT OR LIFE SAFETY DEPARTMENT. PORTABLE FIRE EXTINGUISHERS SHALL COMPLY WITH UNIFORM FIRE CODE STANDARD 10-1.
32. **PLUMBING SYSTEM**: FURNISH ALL LABOR, MATERIALS, FIXTURES, TRIM, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING PLUMBING SYSTEM. ALL WORK SHALL CONFORM TO THE FOLLOWING:
   1. REFER TO DRAWINGS FOR SPECIFIC INFORMATION PERTAINING TO MATERIALS, FIXTURES, ETC. SCHEDULED AS NEW AND NOT CONTAINED HEREIN.
   2. PROVIDE FIXTURES WITH ALL ANCHORS, SUPPORTS, TRAPS AND TRIM, FOR A COMPLETE INSTALLATION.
   3. PROVIDE STOP VALVES ON ALL HOT AND COLD WATER CONNECTIONS TO FIXTURES
   4. CAULK AROUND ALL FIXTURES WITH SILICONE BASED CAULKING COMPOUND.
   5. INSTALL ALL FIXTURES LEVEL AND SQUARE WITH SURROUNDING ENCLOSURES.
   6. INSTALL ESCUTCHEONS FOR ALL PIPES EXPOSED TO VIEW PASSING THROUGH WALLS, FLOORS AND CEILINGS.
   7. PROVIDE TEMPLATES OR CUT-OUTS OF FIXTURES TO THE MILLWORK SUBCONTRACTOR FOR CUTTING OF OPENINGS.
   8. ALL MATERIALS AND WORKMANSHIP SHALL BE IN COMPLIANCE WITH STATE AND LOCAL CODES AND ORDINANCES, AND THE AMERICANS WITH DISABILITIES ACT (ADA).
33. **HVAC SYSTEM**: FURNISH ALL LABOR, MATERIALS, FIXTURES, TRIM, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING HVAC SYSTEM. ALL WORK SHALL CONFORM TO THE FOLLOWING:
   1. STANDARDS: ALL STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE BASE BUILDING CONSTRUCTION DOCUMENTS SHALL GOVERN, UNLESS NOTED OTHERWISE. ALL MATERIALS AND WORKMANSHIP SHALL BE IN COMPLIANCE WITH ASHRAE AND SMACNA, STATE AND LOCAL CODES AND ORDINANCES, AND THE AMERICANS WITH DISABILITIES ACT (ADA).
   2. FIRE DAMPERS SHALL BE INSTALLED IN ALL DUCTS WHICH PENETRATE FIRE RESISTIVE PARTITIONS (ONE-HOUR RATED AND ABOVE). FIRE DAMPERS SHALL BE 100% FREE AREA DESIGN.
   3. RETURN AIR PLENUM: ALLOW FOR TRANSFER OF AIR ABOVE TENANT DEMISING PARTITIONS AND SPACES CONTINUOUSLY AND UNOBSTRUCTED TO THE BUILDING SYSTEM RETURN AIR SHAFT. REFER TO ENGINEERED DRAWINGS (IF PROVIDED) AND DETAILED DRAWINGS FOR WALL CONSTRUCTION AND OPENING SIZE. DURING CONSTRUCTION, THE CONTRACTOR SHALL PLACE TEMPORARY FILTERS OVER OPENINGS TO THE RETURN AIR SHAFT. REMOVE FILTERS UPON COMPLETION OF CONSTRUCTION. COORDINATE THIS WORK WITH THE BUILDING MAINTENANCE MANAGER.
   4. AIR TESTING, ADJUSTING, AND BALANCING: ADJUST AND BALANCE TERMINAL UNITS, DIFFUSERS, DAMPERS AND REGISTERS TO PROVIDE DESIGN CONDITION AIR FLOW OR TO THE AIR QUANTITIES SHOWN ON THE DRAWINGS (IF PROVIDED). BALANCE WORK SHALL BE PERFORMED IN ACCORDANCE WITH NEBB STANDARDS BY A CERTIFIED CONTRACTOR. SUBMIT A BALANCING REPORT TO PARADYM STUDIO. CALIBRATE AND ADJUST ALL THERMOSTATS.
34. **ELECTRICAL SYSTEM**: FURNISH ALL LABOR, MATERIALS, FIXTURES, TRIM, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING ELECTRICAL SYSTEM. ALL WORK SHALL CONFORM TO THE FOLLOWING:
   1. STANDARDS: ALL STANDARDS AND SPECIFICATIONS ESTABLISHED IN THE BASE BUILDING CONSTRUCTION DOCUMENTS SHALL GOVERN, UNLESS NOTED OTHERWISE. ALL WORK SHALL BE COORDINATED WITH THE BUILDING MAINTENANCE MANAGER. REFER TO BASE BUILDING CONSTRUCTION DOCUMENT

MATERIALS LEGEND

- ACT GRID
- ALUMINUM
- BRICK (CUT)
- BRICK (ELEVATION)
- CEMENTITIOUS WOOD FIBER
- CMU (CUT/PLAN)
- COMPACTED EARTH FILL
- CONCRETE (CUT)
- CONCRETE, LIGHT WEIGHT
- CONCRETE, PRE CAST (WHEN INDICATED GRAPHICALLY)
- CONCRETE (ELEVATION)
- FINISH WOOD
- GYP BD
- GYP, CEILING (ELEVATION)
- INSULATION, BATT
- INSULATION RIGID
- STONE
- SOLID SURFACING
- TERRAZZO OR CRUSHED STONE
- WOOD BLOCKING
- MARBLE
- MTL STUD
- PLYWOOD
- STEEL

NOTE: SOME MATERIALS SHOWN MAY NOT OCCUR IN THIS PROJECT.

REFERENCE SYMBOLS

BUILDING SECTION

SECTION DETAIL NUMBER
SHEET NUMBER

WALL SECTION

SECTION DETAIL NUMBER
SHEET NUMBER

DETAIL CALLOUTS

DETAIL NUMBER
SHEET NUMBER

Name / Elevation — ELEVATION DATUM
NOTE: ALL ELEVATIONS ARE FROM PRIMARY BUILDING FIN. FLOOR UNLESS OTHERWISE NOTED

ROOM NAME / 101	ROOM NAME & ROOM NUMBER
101	DOOR TAG
SF-01	STOREFRONT TAG
A	WINDOW TAG
01	EQUIPMENT & ACCESSORIES TAG
A1	WALL TAG
?	KEYED NOTE & ELEVATION TAG
1 / 1'-0" A.F.F.	CEILING TAG

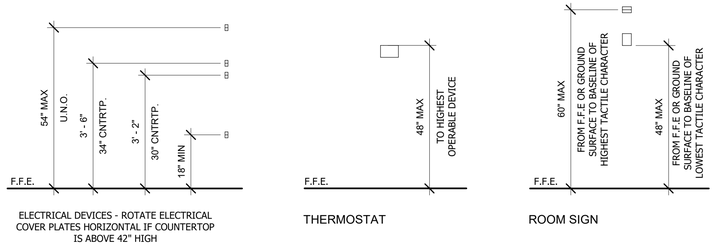
EXTERIOR ELEVATIONS

SHEET ON WHICH ELEVATION IS DRAWN
ELEVATION NUMBER

INTERIOR ELEVATIONS

SHEET ON WHICH ELEVATION IS DRAWN
ELEVATION NUMBER
GRID LINE

ELECTRICAL DEVICES

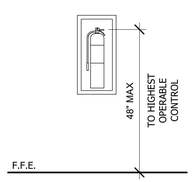


ELECTRICAL DEVICES - ROTATE ELECTRICAL COVER PLATES HORIZONTAL IF COUNTERTOP IS ABOVE 42" HIGH

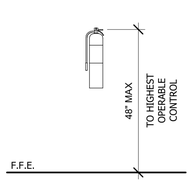
THERMOSTAT

ROOM SIGN

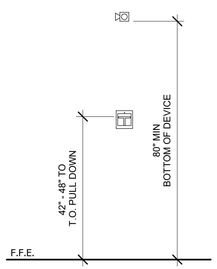
FIRE EXTINGUISHER



FIRE EXTINGUISHER CABINET



FIRE EXTINGUISHER



FIRE ALARM WITH STROBE

CODE BACKUP

TABLE 1018.2 MINIMUM CORRIDOR WIDTH

OCCUPANCY	WIDTH (MINIMUM)
ANY FACILITIES NOT LISTED BELOW	44"
ACCESS TO AND UTILIZATION OF MECHANICAL, PLUMBING, OR ELECTRICAL SYSTEMS OR EQUIPMENT	24"
WITH A REQUIRED OCCUPANCY CAPACITY LESS THAN 50	36"
WITHIN A DWELLING UNIT	36"
IN GROUP E WITH A CORRIDOR HAVING A REQUIRED CAPACTIY OF 100 OR MORE	72"
IN CORRIDORS AND AREA SERVING GURNEY TRAFFIC IN OCCUPANCIES WHERE PATIENTS RECEIVE OUTPATIENT MEDICAL CARE, WHICH CAUSES THE PATIENT TO BE INCAPABLE OF SELF-PRESERVATION	72"
IN GROUP I-2 IN AREAS WHERE REQUIRED FOR BED MOVEMENT	96"
NOTE: THE TYPICAL MINIMUM WIDTH SHALL BE 44"	

ACCESIBLE MEANS OF EGRESS	1. WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED FROM ANY ACCESSIBLE SPACE, EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS.
AREA OF REFUGE (N/A)	1. ELEVATORS ARE NOT REQUIRED TO BE ACCESSED FROM AN AREA OF REFUGE OR HORIZONTAL EXIT IN BUILDINGS EQUIPED THROUGH WITH AN AUTOMATIC SPRINKLER SYSTEM. 2. AREAS OF REFUGE ARE NOT REQUIRED AT EXIT STAIRWAYS IN BUILDINGS EQUIPED THROUGHOUT WITH AN AUTOMATIC SPRINNKLER SYSTEM.
DOORS	32" MIN CLEAR FOR SINGLE LEAF 48" MAX FOR SWINGING DOOR
STAIRWAYS	RISERS - 4" MIN/ 7" MAX TREADS - 11" MIN WIDTH - 44" MIN
RAMPS (N/A)	SLOPE 1:12 - 8% MAX CROSS SLOPE 1:48 - 2% MAX VERTICAL RISE 30" MAX WIDTH 36" MIN BUT NOT LESS THAN REQ'D FOR CORRIDORS LANDING LENGTH 60" MIN LANDING CHANGE IN DIRECTION 60"x60" MIN

COMMON PATH OF TRAVEL [1006.2.1]	**OCCUPANCY**	**MAX LENGTH (SPRINKLERED)**
	ASSEMBLY	75' - 0"
EXIT TRAVEL DISTANCE [1017.2]	**OCCUPANCY**	**MAX LENGTH (SPRINKLERED)**
	ASSEMBLY	250' - 0"
EXIT SEPARATION [1007.1.1.2]	**SPRINKLERED**	SEPARATION MUST BE GREATER THAN 1/3 DIAGONAL DISTANCE
DEAD END COORIDOR [1020.4]	**OCCUPANCY**	**MAX LENGTH (SPRINKLERED)**
	ASSEMBLY	20' - 0"

H. EGRESS WIDTH [1005.1]

LOCATION	OCCUPANT LOAD	WIDTH FACTOR (STAIRS | OTHER)	WIDTH REQUIRED (STAIRS | OTHER)	WIDTH PROVIDED (STAIRS | OTHER)
GROUND FLOOR	150	0.15	22.5"	178"
TOTAL	150	0.15	22.5"	178"

I. MINIMUM NUMBER OF EXITS PER STORY [1006.3.2]

	REQUIRED NUMBER OF EXITS	PROVIDED NUMBER OF EXITS
GROUND FLOOR	2	4

J. PLUMBING CALCULATIONS [2902.1]

OCC.	OCC. LOAD	RATIOS			REQ / PROV			
		WATER CLOSET	LAVATORY	DRINKING FOUNTAIN	WATER CLOSET	LAVATORY	DRINKING FOUNTAIN	SERVICE SINK
A-2	72 MEN	1 PER 75	1 PER 200	1 PER 500	1/2	1/2	1/0 TOTAL	1/1
A-2	72 WOMEN	1 PER 75	1 PER 200	1 PER 500	1/1	1/1	1/0 TOTAL	1/1

K. BUILDING ENVELOPE ANALYSIS [C402]

2018 INTERNATIONAL ENERGY CONSERVATION CODE
COLUMBUS, TENNESSEE - 4A, PER TABLES C402.1.3 OPAQUE THERMAL ENEVLOPE MIN. REQUIREMENTS AND C402.1.4 OPAQUE THERMAL ENVLOPE MAX. REQUIREMENTS & C402.4 BUILDING ENVELOPE FENESTRATION

ROOF (ATTIC & OTHER)	WALLS (ABOVE GRADE) METAL FRAME	WALLS BELOW GRADE	FLOORS	SLAB-ON-GRADE FLOORS	OPAQUE DOORS
REQUIRED: R-30ci FOR ROOF INSULATION R-38 FOR ATTIC AND OTHER (N/A) DESIGN: R-30ci FOR ROOF INSULATION	REQUIRED: R-13 + R-7.5ci DESIGN: R-13 + R-7.5ci	REQUIRED: R-7.5 ci DESIGN: N/A	REQUIRED: R-10ci MASS R-30 JOIST DESIGN: R-10ci (mass) R-30 (joist/framing)	REQUIRED: R-10 FOR 24" BELOW DESIGN: R-10ci (mass) R-30 (joist/framing)	REQUIRED: NONSWINGING - R-4.75 SWINGING - U-0.61 DESIGN: NONSWINGING - R-5 SWINGING - U-0.55

	VERTICAL									SKYLIGHT	
	U-FACTOR			SHGC						U-FACTOR	SHGC
	FIXED	OPER-ABLE	ENTRANCE DOORS	SEW			N				
				PF < 0.2	0.2 ≤ PF < 0.5	PF ≥ 0.5	PF < 0.2	0.2 ≤ PF < 0.5	PF ≥ 0.5		
FENEST-RATIONS	REQ. 0.38 DES. 0.30	REQ. 0.45 DES. 0.40	REQ. 0.77 DES. 0.70	REQ. 0.36 DES. 0.30	REQ. 0.43 DES. 0.40	REQ. 0.58 DES. 0.50	REQ. 0.48 DES. 0.40	REQ. 0.53 DES. 0.50	REQ. 0.58 DES. 0.50	REQUIRED: 0.50 DESIGN: N/A	REQUIRED: 0.40 DESIGN: N/A

CODE DATA REVIEW

A. ZONING

THE PROPERTY IS CD4C (COMMERCIAL)

CITY OF COLUMBIA TN ZONING ORDINANCE JULY 2022

TABLE 5.2.2.D BLOCK PERIMETER STANDARDS
MAX PERIMETER 2400 SF

TABLE 5.2.5 PUBLIC PLANTING
ALL TREE SHAPES APPROVED (COLUMNAR, OVAL, BALL, CONICAL, UMBRELLA, VASE)

B. APPLICABLE CODES

COLUMBIA, TN GOVERNING CODES:
Accessible and Usable Building and Facilities (2009 ICC A117.1)
International Building Code (2018)
International Energy Conservation Code (2018)
International Fire Code (2018)
International Fuel Gas Code (2018)
International Mechanical Code (2018)
International Plumbing Code (2018)
National Electric Code (Contact Columbia Power and Water System)

C. OCCUPANCY TYPE [302.1]

A-2 RESTAURANT

D. BUILDING HEIGHTS AND AREAS [503]

	FLOOR	ALLOWABLE	PROPOSED
PROPOSED CONSTRUCTION GROSS AREA			
	GROUND FLOOR	38,000 SF	3,775 SF
	TOTAL	38,000 SF	**3,775 SF**
PROPOSED BUILDING HEIGHT	1 STORY & 27' - 4" TALL		
MAXIMUM ALLOWABLE HEIGHT	3 STORIES & 75' TALL		

E. CONSTRUCTION TYPE [601]

CONSTRUCTION TYPE	CONSTRUCTION TYPE IIB		
FIRE PROTECTION	FULLY AUTOMATIC SPRINKLER SYSTEM		
BUILDING SYSTEM	**DISTANCE**	**HOURLY RATING**	**UL DESIGN NUMBERS**
PRIMARY STRUCTURAL FRAME		0 HOURS	N/A
BEARING WALL -EXTERIOR -INTERIOR		0 HOURS	N/A
NON-BEARING WALL AND PARTITIONS -EXTERIOR	5'<X>30'	0 HOURS	N/A
NON-BEARING WALL AND PARTITIONS -INTERIOR		0 HOURS	N/A
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS		0 HOURS	N/A
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS		0 HOURS	N/A

F. OCCUPANCY SEPARATION, FIRE BARRIERS, FIRE PARTITIONS, & REQ OPENINGS

	PARTITIONS	OPENINGS
OCC. SEP. BETWEEN GROUPS	0 HOURS [508.4]	
EXIT ACCESS CORRIDORS	0 HOURS [1020.1]	

G. OCCUPANT LOAD [1004.1]

ROOM NAME	FUNCTION OF SPACE	LOAD FACTOR	OCCUPANT LOAD
VESTIBULE	ASSEMBLY, STANDING	5/SF	16
SOUTH DINING	ASSEMBLY, TABLES AND CHAIRS	15/SF	60
SOUTH DINING FIXED SEATING (4 LOCATIONS)	BOOTH AND BAR SEATING	N/A	54 (8+12+12+6+16)
HOST STAND	BUSINESS	150/SF	1
SERVER STATION	BUSINESS	150/SF	1
CARRY OUT	ASSEMBLY, STANDING	5/SF	10
OFFICE	BUSINESS	150/SF	1
KITCHEN	KITCHEN	200/SF	7
TOTAL			**150**

P. STUDIO
761 OLD HICKORY BLVD STE 301
BRENTWOOD, TN 37027
call | 615.258.5562
email | hello@paradymstudio.com

OLD GLORY RESTAURANT

TRADEWINDS DR.
PARCEL 33.35
COLUMBIA, TN

WILLIAM M. PARKER — REGISTERED ARCHITECT — No. 107418 — STATE OF TENNESSEE
12/22/2023

ISSUED FOR
- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS

PROJECT NUMBER: 23079
DRAWN BY: RL
DATE: 12.22.23
DRAWING CODE INFORMATION

G002

12/29/2023 4:10:16 PM
Autodesk Docs://23079 Old Glory Columbia/23079 Old Glory Columbia.rvt

WHEELCHAIR REACH



FIG. 606.3

HEIGHT OF LAVATORIES AND SINKS

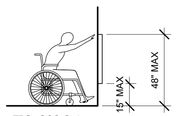


FIG. 308.2.1

UNOBSTRUCTED FORWARD REACH

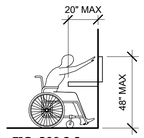
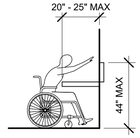


FIG. 308.2.2

OBSTRUCTED HIGH FORWARD REACH - 20" MAX



OBSTRUCTED HIGH FORWARD REACH - 25" MAX

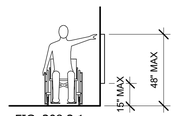


FIG. 308.3.1

UNOBSTRUCTED SIDE REACH

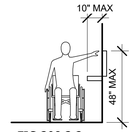
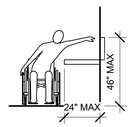


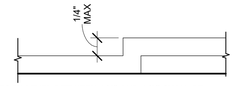
FIG 308.3.2

OBSTRUCTED HIGH SIDE REACH - 10" MAX

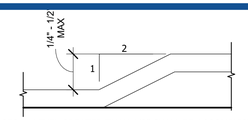


OBSTRUCTED HIGH SIDE REACH - 24" MAX

CHANGES IN LEVEL; INTERIOR/EXTERIOR



CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2



CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE ACCOMPLISHED BY MEANS OF A RAMP THAT MEETS ADA STANDARDS

NOTE: FOR RENOVATIONS AFTER DEMOLITION OF A GIVEN AREA, THE EXISTING CONSTRUCTION SHALL BE FILLED, GROUND, OR FEATHERED PRIOR TO BEGINNING RECONSTRUCTION. (SEE GENERAL NOTE 25 ON SHEET G001 FOR MORE EXTENSIVE INFORMATION..)

THRESHOLD DETAIL

DOORS

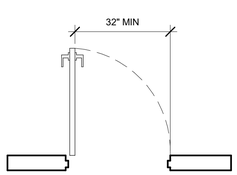
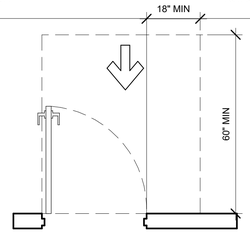
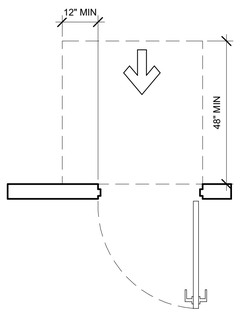


FIG. 404.2.3
CLEAR WIDTH OF DOORWAYS

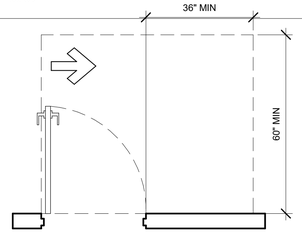
(A) HINGED DOOR



(A) FRONT APPROACH, PULL SIDE



(B) FRONT APPROACH, PUSH SIDE



(C) HINGE APPROACH, PULL SIDE

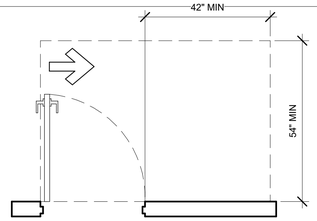
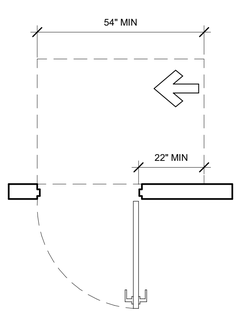
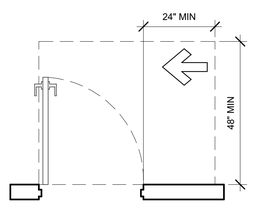


FIG. 404.2.4.1

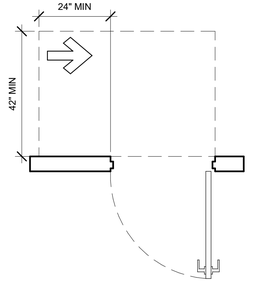
(D) HINGE APPROACH, PULL SIDE



(E) HINGE APPROACH, PUSH SIDE

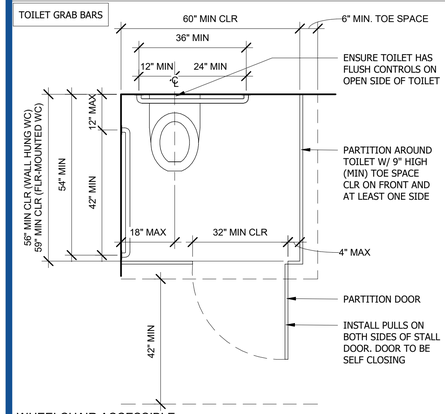


(F) LATCH APPROACH, PULL SIDE

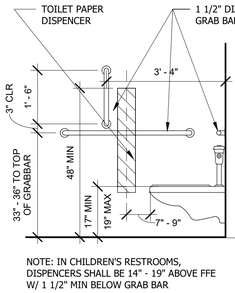


(G) LATCH APPROACH, PUSH SIDE

TOILET GRAB BARS

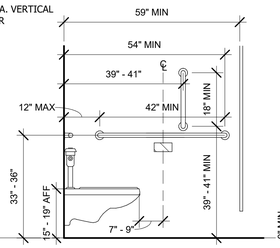


WHEELCHAIR ACCESSIBLE TOILET STALL - PLAN

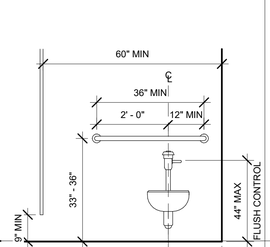


NOTE: IN CHILDREN'S RESTROOMS, DISPENCERS SHALL BE 14" - 19" ABOVE FFE W/ 1 1/2" MIN BELOW GRAB BAR

WHEELCHAIR ACCESSIBLE TOILET STALL - ELEVATION



SIDE



FRONT

MIRROR & COUNTER CLEARANCES

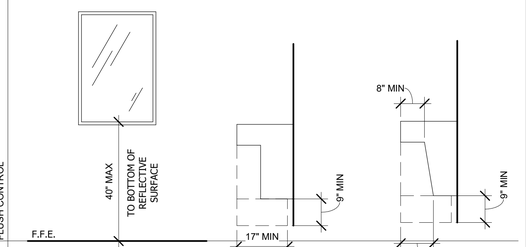


FIG. 306.2

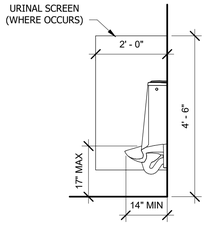
FIG. 306.3

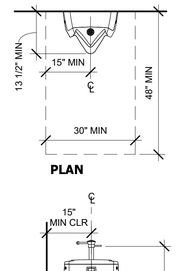
MIRROR

TOE CLEARANCE

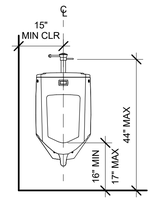
KNEE CLEARANCE

URINAL



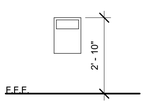


PLAN

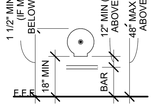


ELEVATION

BATHROOM - DISPENSERS



RECESSED SANITARY NAPKIN DISPOSAL



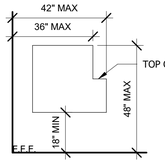
TOILET PAPER DISPENSER



PAPER TOWEL DISPENSER



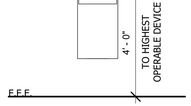
WALL MOUNTED SOAP DISPENCER



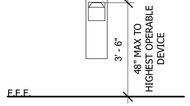
RECESSED TOILET PAPER DISPENSER/HOLDER ZONE



TOILET SEAT COVER DISPENSER



SEMI RECESSED PAPER TOWEL RECEPTACLE

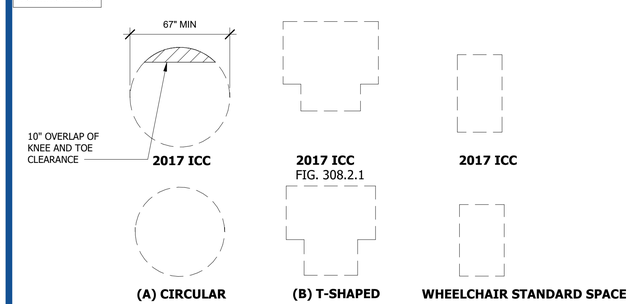


RECESSED PAPER TOWEL DISPENCER & RECEPTACLE

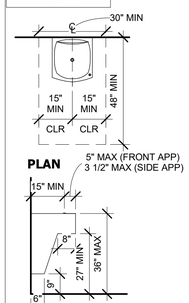


SANITARY NAPKIN DISPENSER

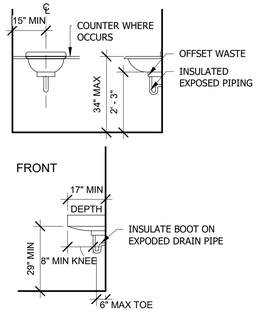
TURNING RADIUS

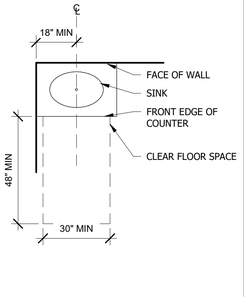


DRINKING FOUNTAIN

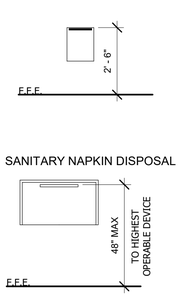


SINK





ACCESSIBLE COUNTERTOP SINK



SANITARY NAPKIN DISPOSAL

FLIP DOWN BABY CHANGE UNIT

TOILET PAPER HOLDER

MOUNTING HEIGHT NOTES

1. TYPICAL HEIGHTS: MOUNTING HEIGHTS INDICATED HEREIN ARE TYPICAL MOUNTING HEIGHTS FOR DEVICE INDICATED. HOWEVER, MOUNTING HEIGHTS FOR PRODUCTS MAY VARY BY MANUFACTURER, AND THEREFORE THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT WHERE A DISCREPANCY EXISTS BETWEEN THE INDICATED MOUNTING HEIGHT AND THE MANUFACTURER RECOMMENDED MOUNTING HEIGHT, PRIOR TO INSTALLATION OF THE DEVICE.

2. THE GENERAL CONTRACTOR SHALL REFER TO FLOOR PLANS FOR LOCATIONS OF DEVICES SHOWN HEREIN.

3. ADA DEVICES: ALL DEVICES AND FIXTURES NOTED AS "ACCESSIBLE" SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND APPLICABLE LOCAL BUILDING CODES.

4. ELECTRICAL DEVICES: SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF ELECTRICAL DEVICES AND FIXTURES -
   A. PROVIDE OUTLETS AT 15" MIN. A.F.F. TO BOTTOM OF PLATE.
   B. IF ANY CONTROLS, ELECTRIC OUTLETS, OR OPERABLE PARTS ARE LOCATED ABOVE AN OBSTRUCTION, THE THE OBSTRUCTION SHALL BE 34" MAX A.F.F. IF THEY ARE LOCATED DEEPER THAN 10" FROM THE FRONT BARRIER.
   C. WHERE CONFLICTS EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE ELECTRICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.

5. MECHANICAL / PLUMBING DEVICES: SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF MECHANICAL AND PLUBING DEVICES AND FIXTURES. WHERE CONFLICTS EXIST BETWEEN MOUNTING HEIGHTS INDICATED HEREIN AND THE REQUIREMENTS OF THE MECHANICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.

6. INSTALL ADA / ANSI COMPLIANT UNDER LAVATORY GUARDS ON ALL EXPOSED SINK PIPING.

7. SIGNS AT A PERMANENT ROOM SHALL HAVE A NON-GLARE FINISH. MOUNT ACCESSIBLE SIGNS WITH RAISED CHARACTERS AND BRAILLE ON THE WALL ADJACENT TO THE LATCH OF THE DOOR AT 48" MIN. A.F.F. MEASURED FROM THE BASELINE AND 60" MAX A.F.F. TO THE HIGHEST TACTILE CHARACTER. COORDINATE WITH RAISED LETTER AND BRAILLE AND OTHER SIGNAGE REQUIREMENTS.

8. CONTRACTOR MUST MAINTAIN ON THE JOB SITE A COPY OF THE CURRENT ADAAG STANDARDS AND THE IBC CHAPTER 11 ACCESSIBILITY REQUIREMENTS.

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OLD GLORY RESTAURANT

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COLUMBIA, TN

WILLIAM M. PARKER REGISTERED ARCHITECT STATE OF TENNESSEE No. 107418 12/22/2023

ISSUED FOR
- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS

PROJECT NUMBER: 23079

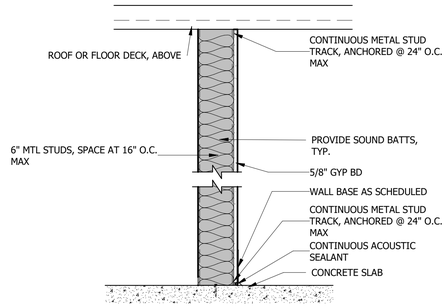
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DATE: 12.22.23

DRAWING ACCESSIBILITY NOTES

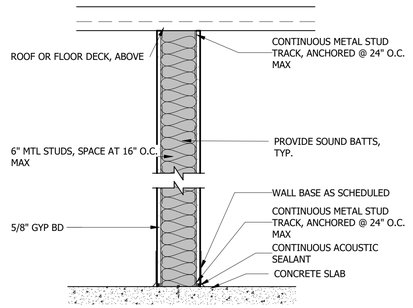
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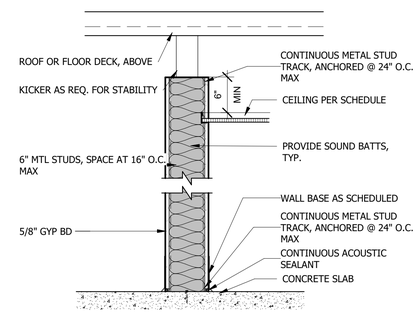
SECTION

B6 6" MTL STUD _ GYP ONE SIDE _ TO DECK — NO RATING
1" = 1'-0"

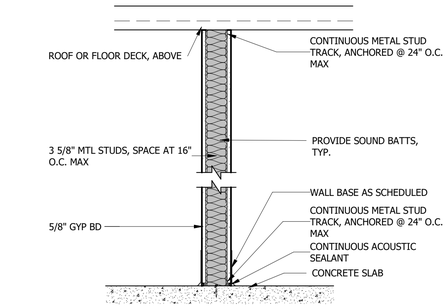


SECTION

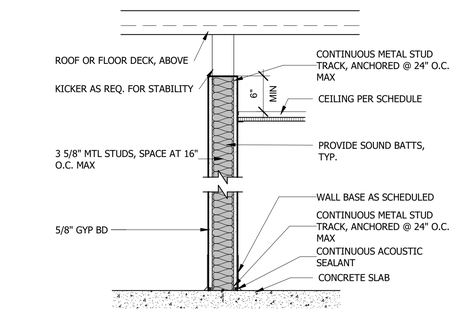
B2 6" MTL STUD _ TO DECK — NO RATING
1" = 1'-0"



B1 6" MTL STUD_NOT TO DECK — NO RATING
1" = 1'-0"



A2 3 5/8" MTL STUD _ TO DECK — NO RATING
1" = 1'-0"



A1 3 5/8" MTL STUD_NOT TO DECK — NO RATING
1" = 1'-0"

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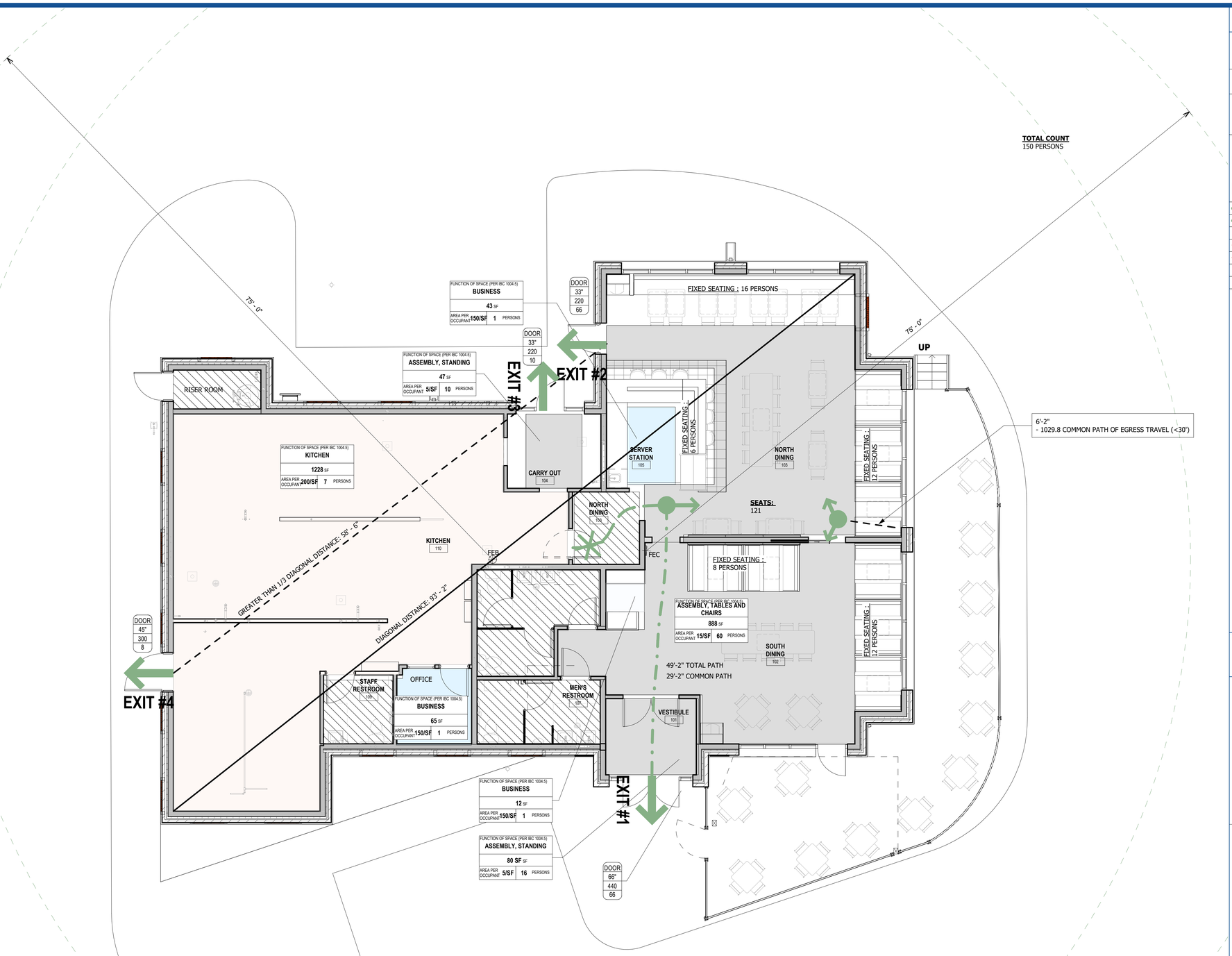
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RL

DATE:
12.22.23

DRAWING
WALL TYPES

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1 LIFE SAFETY - SFL 01
3/16" = 1'-0"

LIFE SAFETY LEGEND

- ORIGIN OF PATH OF TRAVEL
- POINT OF MULTIPLE OPTIONS - END OF COMMON PATH
- DIRECTION OF TRAVEL
- EXIT #1 — EXIT ARROW
- COMMON PATH OF TRAVEL
- PATH OF TRAVEL
- WALL PARTITION: SEE WALL TYPES
- 1 HR. FIRE PARTITION TO DECK
- 2 HR. FIRE PARTITION TO DECK
- FEB — FIRE EXTINGUISHER BRACKET
- FEC — FIRE EXTINGUISHER CABINET
- DOOR / XX / XXX / XXX — MEANS OF EGRESS COMPONENT; MEANS OF EGRESS CLEAR WIDTH; MEANS OF EGRESS ALLOWABLE OCCUPANTS; MEANS OF EGRESS OCCUPANT LOAD
- BUSSINESS / AREA / SF/OCC / OCC — OCCUPANCY TYPE; SPACE AREA; SPACE OCCUPANT LOAD; AREA PER OCCUPANT
- BUSINESS USE
- ASSEMBLY USE
- KITCHEN USE
- AREA EXCLUDED

LIFE SAFETY GENERAL NOTES

1. NEW FIRE PROTECTION EQUIPMENT IS REQUIRED TO COMPLY, OPERATE, AND MAINTAIN LEVEL OF PROTECTION PER LOCAL, STATE, AND FEDERAL CODES AND REGULATIONS.
2. REFER TO ELECTRICAL/FIRE SAFETY DRAWINGS FOR FINAL LOCATION AND QUANTITY OF SMOKE DETECTORS.
3. REFER TO FIRE PROTECTION PLAN FOR THE LOCATION OF FIRE SAFETY EQUIPMENT.
4. PROVIDE FIRE EXTINGUISHERS AND CABIINETS IN ACCORDANCE WITH IBC AND/OR NFPA 10. FEC'S ARE INDICATED FOR PLACEMENT IN HIGH HAZARD AREAS (IE: STORAGE AND ELECTRICAL ROOMS GREATER THAN 100SF). COORDINATE PLACEMENT WITH EQUIPMENT AND PANELS IN FIELD.
5. REFER TO G SHEETS AND ARCHITECTURAL PLANS FOR WALL TYPES AND DETAILS.

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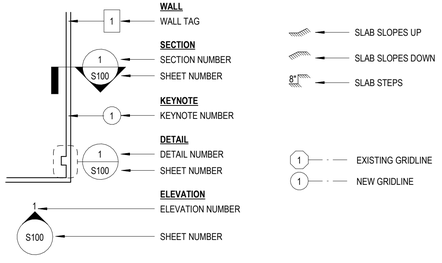
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LIFE SAFETY PLAN

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AFF	ABOVE FINISHED FLOOR	EW	EACH WAY	NO	NUMBER
AHU	AIR HANDLING UNIT	EXP	EXPANSION	NOM	NOMINAL
ALT	ALTERNATE	EXT	EXTERIOR	NS	NEAR SIDE
ALUM	ALUMINUM			NTS	NOT TO SCALE
APPROX	APPROXIMATE	F/__	FACE OF __		
ARCH	ARCHITECT(URAL)	FDN	FOUNDATION	OC	ON CENTER
		FFE	FINISHED FLOOR ELEVATION	OD	OUTSIDE DIAMETER
B/__	BOTTOM OF __	FIG	FIGURE	OH	OVERHEAD
B/W	BETWEEN	FIN	FINISH(ED)	OPP	OPPOSITE
BF	BRACED FRAME	FLG	FLANGE	OSB	ORIENTED STRAND BOARD
BITUM	BITUMINOUS	FLR	FLOOR		
BLDG	BUILDING	FS	FAR SIDE	PCC	PRECAST CONCRETE
BM	BEAM	FV	FIELD VERIFY	PED	PEDESTAL
BRG	BEARING			PERF	PERFORATE(D)
BTM	BOTTOM	GA	GAGE OR GAUGE	PL	PLATE
		GALV	GALVANIZED	PSL	PARALLEL STRAND LUMBER
C/C	CENTER TO CENTER	GC	GENERAL CONTRACT(OR)	PT	PRESSURE TREATED
CALC	CALCULATION	GEN	GENERAL	PT	POST-TENSIONED
CD	CONSTRUCTION DOCUMENTS	GLB	GLUED-LAMINATED BEAM		
CFS	COLD-FORMED STEEL	GR	GRAD	QTY	QUANTITY
CIP	CAST-IN-PLACE	GYP	GYPSUM		
CJ	CONTROL JOINT			RCP	REFLECTED CEILING PLAN
CL	CENTER LINE	HC	HOLLOW-CORE	REF	REFERENCE
CLR	CLEAR(ANCE)	HORIZ	HORIZONTAL	REINF	REINFORCEMENT
CMU	CONCRETE MASONRY UNIT	HT	HEIGHT	REQD	REQUIRED
COL	COLUMN			REQT	REQUIREMENT(S)
CONC	CONCRETE	ICF	INSULATING CONCRETE FORM	RO	ROUGH OPENING
CONN	CONNECTION	ID	INSIDE DIAMETER	RTU	ROOF TOP UNIT
CONST	CONSTRUCTION	IFC	ISSUE FOR CONSTRUCTION		
CONT	CONTINUE(OUS)	INT	INTERIOR	SCHED	SCHEDULE
CTR	CENTER	INV	INVERT(ED)	SD	SCHEMATIC DESIGN
				SOG	SLAB ON GRADE
d	PENNY (AS IN NAIL)	JST	JOIST	SPEC	SPECIFICATION(S)
DBA	DEFORMED BAR ANCHOR	JT	JOINT	SQ	SQUARE
DBL	DOUBLE			STD	STANDARD
DD	DESIGN DEVELOPMENT	KD	KILN-DRIED	STL	STEEL
DEG	DEGREE	KO	KNOCKOUT	STRUCT	STRUCTURE(AL)
DET	DETAIL			SW	SHEAR WALL
DIA	DIAMETER	LAM	LAMINATE(D)		
DIM	DIMENSION	LG	LONG	T&G	TONGUE & GROOVE
DL	DEAD LOAD	LGMF	LIGHT-GAGE METAL FRAMING	T/__	TOP OF __
DN	DOWN	LL	LIVE LOAD	TEMP	TEMPORARY
DWG	DRAWING	LLH	LONG LEGS HORIZONTAL	THK	THICK(NESS)
DWL	DOWEL	LLV	LONG LEGS VERTICAL	TRANS	TRANSVERSE
		LONG	LONGITUDINAL		
(E)	EXISTING	LSL	LAMINATED STRAND LUMBER	UNO	UNLESS NOTED OTHERWISE
E/__	EDGE OF __	LT GA	LIGHT GAGE		
EA	EACH	LVL	LAMINATED VENEER LUMBER	VERT	VERTICAL
EF	EACH FACE	LW	LIGHTWEIGHT		
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	MAU	MAKEUP AIR UNIT	W/	WITH
		MECH	MECHANICAL	W/O	WITHOUT
EJ	EXPANSION JOINT	MED	MEDIUM	WHS	WELDED HEADED STUD
ELEC	ELECTRIC(AL)	MEP	MECHANICAL, ELECTRIAL, PLUMBING	WP	WORK POINT
ELEV	ELEVATION			WT	WEIGHT
EOS	EDGE OF SLAB	MFR	MANUFACTURER	WTS	WELDED THREADED STUD
EQ	EQUAL	MISC	MISCELLANEOUS	WWF	WELDED WIRE FABRIC
EQUIV	EQUIVALENT	MOD	MODIFIED		
EST	ESTIMATE(D)				

ABBREVIATIONS



MISCELLANEOUS PLAN SYMBOLS

STRUCTURAL SHEET LIST

SHEET NUMBER	SHEET NAME
S001	STRUCTURAL GENERAL NOTES
S002	STRUCTURAL GENERAL NOTES
S003	STRUCTURAL SPECIAL INSPECTIONS
S004	TYPICAL DETAILS
S005	TYPICAL DETAILS
S006	TYPICAL DETAILS
S007	TYPICAL DETAILS
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S510	SECTIONS & DETAILS
S520	SECTIONS & DETAILS

STRUCTURAL SHEET LIST

USE OF DRAWINGS

STRUCTURAL GENERAL NOTES: THE STRUCTURAL GENERAL NOTES ARE APPLICABLE UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR IN THE PROJECT SPECIFICATIONS.

TYPICAL DETAILS: ALL TYPICAL DETAILS SHOWN IN THE DRAWINGS SHALL APPLY UNLESS NOTED OTHERWISE. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS BUT SHALL STILL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS. WHERE TYPICAL DETAILS ARE NOTED ON THE DRAWINGS, THE SPECIFIED TYPICAL DETAIL SHALL BE USED. OTHERWISE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE APPROPRIATE TYPICAL DETAIL FROM THOSE PROVIDED. THE CONTRACTOR SHALL SUBMIT ALL PROPOSED ALTERNATE TYPICAL DETAILS WITH RELATED CALCULATIONS TO THE STRUCTURAL ENGINEER OR RECORD FOR APPROVAL PRIOR TO SHOP DRAWING PRODUCTION AND FIELD USE.

TYPICAL SHEET LAYOUT: SECTION OR DETAIL NUMBER FOLLOWS THE LAYOUT BELOW. NUMBERING MAY NOT BE SEQUENTIAL ON SHEETS.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

USE OF DRAWINGS AND COORDINATION: USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH ARCHITECTURAL, CIVIL, LANDSCAPE, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION, AND OTHER DRAWINGS FOR BIDDING AND CONSTRUCTION AS APPLICABLE. COORDINATE WORK AND VERIFY DIMENSIONS AND CONDITIONS FOR COMPATIBILITY BETWEEN TRADES AND EQUIPMENT PURCHASED. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF DISCREPANCIES PRIOR TO CONSTRUCTION.

DRAWING SCALE: NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE THE DRAWINGS.

NOTE CONFLICTS: IF ANY STRUCTURAL GENERAL NOTES ARE IN CONFLICT WITH OTHER DRAWINGS OR THE PROJECT SPECIFICATIONS, USE THE MOST STRINGENT REQUIREMENT FOR BIDDING AND CONSTRUCTION.

EXISTING CONDITIONS: INFORMATION SHOWN ON THE STRUCTURAL DRAWINGS RELATED TO EXISTING CONDITIONS REPRESENTS THE PRESENT KNOWLEDGE BUT WITHOUT GUARANTEE OF ACCURACY. VERIFY ALL EXISTING DIMENSIONS, MEMBER SIZES, AND CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF RECORD OF CONDITIONS THAT CONFLICT WITH THE CONTRACT DOCUMENTS. DO NOT DEVIATE FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN DIRECTION FROM THE STRUCTURAL ENGINEER OF RECORD.

DIMENSION VERIFICATION: DIMENSIONS NOTED AS FIELD VERIFY (FV) INDICATE UNVERIFIED DIMENSIONS THAT REQUIRE CONFIRMATION OR DETERMINATION BY THE CONTRACTOR PRIOR TO FABRICATION AND CONSTRUCTION. NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER OF CONFLICTS OR VARIATIONS FROM INDICATED DIMENSIONS.

MEANS AND METHODS

MEANS AND METHODS: CHAD STEWART & ASSOCIATES, INC (CSA ENGINEERING, CSA), OR ANY EMPLOYEES THEREOF, SHALL NOT HAVE CONTROL OR BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, TECHNIQUES, PROCEDURES, SEQUENCES, ACTS, OR OMISSIONS OF THE CONTRACTOR OR ANY OTHER PERSONS PERFORMING THE WORK OR FOR THE FAILURE OF ANY INDIVIDUAL OR COMPANY TO SAFELY CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

STABILITY: THE CONTRACTOR SHALL PROVIDE NECESSARY BRACING AND SHORING AS REQUIRED UNTIL THE STRUCTURAL SYSTEMS HAVE BEEN COMPLETED. THE STRUCTURE SHALL NOT BE CONSIDERED STABLE UNTIL ALL STRUCTURAL ELEMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL DETERMINE WHERE TEMPORARY SHORING OR BRACING IS REQUIRED AND PROVIDE ITS DESIGN.

GEOTECHNICAL

ASSUMED SOIL DESIGN PARAMETERS: A GEOTECHNICAL REPORT HAS NOT BEEN PROVIDED TO THE ENGINEER. THE FOUNDATION SYSTEM HAS BEEN DESIGNED USING THE FOLLOWING ASSUMED SOIL PARAMETERS. THE CONTRACTOR SHALL EMPLOY A TESTING LABORATORY TO VERIFY THESE PARAMETERS. A GEOTECHNICAL ENGINEER LICENSED IN THE PROJECT STATE EMPLOYED BY THE TESTING LABORATORY SHALL REVIEW AND VERIFY THE FOLLOWING DESIGN PARAMETERS TO ENSURE THAT ANTICIPATED TOTAL SETTLEMENT WILL NOT EXCEED ONE INCH. SHOULD ACTUAL CONDITIONS BE DETERMINED TO DEVIATE FROM THE VALUES SPECIFIED, THE TESTING LABORATORY AND THE CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER BEFORE CONSTRUCTION OF THE SHALLOW FOUNDATION SYSTEM.

ALLOWABLE BEARING PRESSURE:	1,500 PSF
FROST DEPTH:	18 INCHES
BUILDING PAD:	
SUBGRADE MODULUS:	125 PCI
COEFFICIENT OF FRICTION:	0.35

SOIL PREPARATION: THE GEOTECHNICAL ENGINEER SHALL OBSERVE AND APPROVE PREPARED SOIL BEARING SURFACES PRIOR TO PLACEMENT OF REINFORCING STEEL AND CASTING OF FOOTING. THE GEOTECHNICAL ENGINEER OR AN APPROVED TESTING LAB SHALL OBSERVE SOIL COMPACTION WORK.

SUBGRADE PREP: SUBGRADE PREPARATION INCLUDING DRAINAGE, EXCAVATION, COMPACTION, AND FILLING REQUIREMENTS SHALL CONFORM STRICTLY TO THE CONTRACT DOCUMENTS, THE RECOMMENDATIONS GIVEN IN THE GEOTECHNICAL REPORT, AND AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

UTILITIES: DETERMINE THE LOCATION OF ALL NEW/EXISTING UNDERGROUND UTILITIES IN AND ADJACENT TO THE AREA OF WORK PRIOR TO COMMENCING EXCAVATION. COORDINATE UTILITY LOCATIONS WITH FOUNDATIONS AS REQUIRED.

EXISTING STRUCTURES: CONTRACTOR SHALL CONFIRM THE AS-BUILT LOCATION OF ANY POTENTIAL NEW OR EXISTING STRUCTURES OR OBJECTS WITHIN THE ZONE OF EXCAVATION INCLUDING WORK PERFORMED AS A PORTION OF THIS PROJECT BEFORE EXCAVATING OR INSTALLING FOUNDATION ELEMENTS. NOTIFY THE STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY EXCAVATIONS OR OTHER SITE WORK, IF THE EXCAVATION WILL CUT BELOW AN ADJACENT STRUCTURE'S BOTTOM OF FOOTING ELEVATION OR IF AN ADJACENT STRUCTURE IS UPSLOPE FROM THE PLANNED SITE WORK.

BACKFILL: BACKFILL FOOTINGS WITH FREE DRAINING GRANULAR FILL. PROVIDE A SUBSURFACE DRAINAGE SYSTEM FOR FOUNDATION BASED ON THE GEOTECHNICAL REPORT RECOMMENDATIONS.

SLAB-ON-GRADE BASE: AGGREGATE BASE (GRANULAR FILL) BELOW CONCRETE SLAB-ON-GRADE SHALL CONSIST OF MATERIAL AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER AND BASED ON LOCAL AVAILABILITY.

FOOTINGS: FOOTINGS SHALL BEAR ON SOLID UNDISTURBED EARTH OR PROPERLY COMPACTED STRUCTURAL FILL AT LEAST FROST DEPTH BELOW LOWEST ADJACENT FINISHED GRADE. FOOTING DEPTHS/ELEVATIONS SHOWN ON PLANS AND DETAILS ARE MINIMUM. ESTABLISH THE ACTUAL BOTTOM-OF-FOOTING ELEVATIONS IN THE FIELD, BASED UPON THE GEOTECHNICAL ENGINEER'S ON-SITE OBSERVATIONS AND ADDITIONAL TESTING, IF REQUIRED, THAT WILL ACHIEVE THE ALLOWABLE DESIGN BEARING PRESSURE. NOTIFY ENGINEER OF ANY NECESSARY DEVIATIONS FROM THE FOOTING ELEVATIONS SHOWN ON THE DRAWINGS PRIOR TO CONSTRUCTING THE FOOTINGS.

CONCRETE PLACEMENT: FOUNDATION CONCRETE SHALL BE PLACED THE SAME DAY THE EXCAVATION IS MADE WHEN FEASIBLE. WHERE FOUNDATION EXCAVATIONS MUST REMAIN OPEN OR EXPOSED, SPECIAL CARE SHOULD BE TAKEN TO PROTECT THE EXPOSED SOILS FROM BEING DISTURBED, SATURATED, OR DRIED OUT PRIOR TO THE PLACEMENT OF SELECT FILL OR CONCRETE WITH A MUD MAT OF LEAN (250 PSI) CONCRETE OR AS APPROVED BY THE GEOTECHNICAL ENGINEER.

FORMS: THE EXTERIOR VERTICAL FACE OF ALL EXPOSED SLAB TURNDOWNS SHALL BE FORMED. THE SIDES OF FOOTINGS MAY BE EARTH FORMED AS LONG AS THE SOIL WILL MAINTAIN A VERTICAL FACE. ALL FOUNDATION STEM WALLS AND RETAINING WALLS SHALL BE FORMED ON BOTH SIDES OF THE WALL.

EXCAVATION: THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, UNDERPINNING, AND PROTECTION OF EXISTING CONSTRUCTION. COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.

COMPACTION: MECHANICALLY COMPACT EXCAVATION BACKFILL IN LAYERS. PROVIDE THE FOLLOWING MINIMUM COMPACTION IN ACCORDANCE WITH THE ASTM D698 TEST METHOD UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT:

TRENCH AND WALL BACKFILL:	90% MAXIMUM DRY DENSITY
FILL BENEATH SLAB-ON-GRADE:	95% MAXIMUM DRY DENSITY
FILL BENEATH FOOTINGS:	95% MAXIMUM DRY DENSITY

STRUCTURAL GENERAL NOTES

DESIGN AND CONSTRUCTION CRITERIA

GOVERNING BUILDING CODE: ALL DESIGN AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE (IBC),.

DESIGN LOADS: BUILDING DESIGN LOADS HAVE BEEN DETERMINED IN ACCORDANCE WITH THE BUILDING CODE AND ASCE 7 AS FOLLOWS:

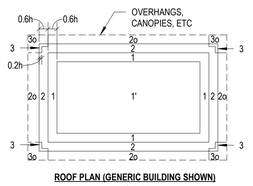
ROOF LIVE LOAD (Lr):	20 PSF
SNOW LOAD:	
GROUND SNOW LOAD (Pg):	10 PSF
WIND LOADS:	
DESIGN WIND SPEEDS (Vult, Vasd):	105 MPH, 82 MPH
RISK CATEGORY:	II
WIND EXPOSURE CATEGORY:	C
INTERNAL PRESSURE COEFFICIENT (GCpi):	±0.18

COMPONENTS & CLADDING WIND PRESSURES PER C&C WIND PRESSURE DIAGRAM BELOW:

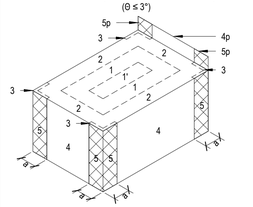
COMPONENTS AND CLADDING DESIGN ULTIMATE WIND PRESSURES (PSF)

ROOF			
ZONE	10 SF	50 SF	100 SF
1, 1'	+16.0	+16.0	+16.0
2, 3	+22.9	+20.5	+19.5
1	-39.8	-33.7	-31.1
1'	-22.9	-22.9	-22.9
2	-52.5	-44.6	-41.3
3	-52.5	-44.6	-41.3
1o, 1o'	-36.0	-34.5	-33.9
2o	-48.7	-38.2	-33.7
3o	-48.7	-38.2	-33.7
WALLS			
ZONE	10 SF	100 SF	500 SF
4	-24.8 +22.9	-21.4 +19.5	-19.0 +17.1
4p	-42.9 +72.6	-35.7 +57.0	-30.6 +46.0
5	-30.5 +22.9	-23.7 +19.5	-19.0 +17.1
5p	-49.0 +72.6	-38.2 +57.0	-30.6 +46.0

NOTES:
1. TABLE PRESSURES ARE FOR THE SQUARE FOOT TRIBUTARY AREA SHOWN. FOR OTHER TRIBUTARY AREAS, LINEARLY INTERPOLATE BETWEEN VALUES SHOWN ABOVE.
2. POSITIVE PRESSURES ACT TOWARD THE SURFACES. NEGATIVE PRESSURES ACT AWAY FROM THE SURFACES.
3. ROOF UPLIFT PRESSURES LISTED ARE GROSS PRESSURES. A MIN DEAD LOAD OF 9.0 PSF MAY BE APPLIED.
4. θ = ROOF ANGLE FROM HORIZONTAL — a = 5.0 FT



ROOF PLAN (GENERIC BUILDING SHOWN)



WALLS (GENERIC BUILDING SHOWN)

SEISMIC LOADS:

RISK CATEGORY:	II
SEISMIC IMPORTANCE FACTOR (Ie):	1.00
MAPPED SPECTRAL RESPONSE ACCELERATIONS (Ss, S1):	0.298, 0.144
SITE CLASS:	D
DESIGN SPECTRAL RESPONSE ACCELERATIONS (Sds, Sd1):	0.310, 0.222
SEISMIC DESIGN CATEGORY:	B (ASCE TABLE 11.6-1)

CFS WALLS

BASIC SEISMIC FORCE RESISTING SYSTEM:	LIGHT-FRAME (CFS) WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE
DESIGN BASE SHEAR (V):	15.5 KIPS
SEISMIC RESPONSE COEFFICIENT (Cs):	0.044
RESPONSE MODIFICATION FACTOR (R):	7.0
ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE PROCEDURE

STEEL FRAMES

BASIC SEISMIC FORCE RESISTING SYSTEM:	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
DESIGN BASE SHEAR (V):	36 KIPS
SEISMIC RESPONSE COEFFICIENT (Cs):	0.103
RESPONSE MODIFICATION FACTOR (R):	3.0
ANALYSIS PROCEDURE USED:	EQUIVALENT LATERAL FORCE PROCEDURE

RAIN LOAD:
100 YEAR, 1 HOUR DESIGN RAINFALL INTENSITY: 3.3 INCHES

THE MAXIMUM DEPTH OF RAINWATER AT THE LOWEST POINT OF THE ROOF SHALL NOT EXCEED 4 INCHES DURING A RAINFALL EVENT. DESIGN OF DRAINAGE SYSTEMS BY OTHERS.

ROOF DRAINAGE: THE ROOF FRAMING SYSTEM HAS BEEN DESIGNED WITH THE ASSUMPTION THAT A DRAINAGE SYSTEM ADEQUATE TO PREVENT PONDING WILL BE PROVIDED.

SUBMITTALS

GENERAL: SUBMIT MATERIAL OR PRODUCT SPECIFICATIONS OR SHOP DRAWINGS AS APPLICABLE FOR REVIEW AND APPROVAL BY THE ARCHITECT AND ENGINEER PRIOR TO ANY FABRICATION OR CONSTRUCTION. DIMENSION AND QUANTITY VERIFICATION ARE THE CONTRACTOR'S RESPONSIBILITIES AND ARE NOT REVIEWED BY THE ENGINEER. THE CONTRACTOR SHALL REVIEW AND APPROVE SUBMITTALS PRIOR TO REVIEW BY THE ARCHITECT AND ENGINEER.

DEVIATIONS: DEVIATIONS FROM THE DESIGN SHOWN IN THE CONTRACT DOCUMENTS SHALL BE CLOUDED ON SHOP DRAWINGS OR REQUESTED IN WRITING. THE CONTRACTOR IS LIABLE FOR ANY DEVIATIONS UNLESS REVIEWED AND APPROVED BY THE ENGINEER IN WRITING. IF DEVIATIONS, DISCREPANCIES, OR CONFLICTS BETWEEN THE CONTRACT DOCUMENTS AND SUBMITTALS ARE DISCOVERED, EITHER PRIOR TO OR AFTER THE ENGINEER PROCESSES THE SUBMITTAL REVIEW, THE CONTRACT DOCUMENTS SHALL CONTROL.

SUBSTITUTIONS: SUBMIT SUBSTITUTION REQUESTS WITH APPLICABLE PRODUCT LITERATURE TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL PRIOR TO DETAILING, FABRICATION, AND CONSTRUCTION. ADDITIONAL DETAILS AND CALCULATIONS PREPARED BY AN ENGINEER LICENSED IN THE PROJECT STATE MAY BE REQUIRED FOR SUBSTITUTIONS THAT ARE NOT SUFFICIENTLY SIMILAR TO THE SPECIFIED PRODUCTS AND CONFIGURATION.

SUBMITTAL PREPARATION: COPIES OF DESIGN DRAWINGS WILL NOT BE ACCEPTED AS SHOP DRAWINGS. SHOP DRAWINGS MUST BE REPRODUCED BY THE RESPECTIVE SUPPLIERS AND DETAILED AS NECESSARY.

SUBMITTAL REVIEW TIME: THE CONTRACTOR SHALL ALLOW UP TO TEN BUSINESS DAYS FOR THE ENGINEER'S REVIEW OF EACH SUBMITTAL. THE TIME COMMENCES UPON THE ENGINEER'S RECEIPT OF A PROPERLY COMPLETED SUBMITTAL.

SUBMITTAL APPROVAL: FOLLOWING APPROVAL BY THE ARCHITECT AND ENGINEER, ADDITIONAL TIME FOR REVIEW AND APPROVAL BY THE BUILDING OFFICIAL IS REQUIRED PRIOR TO FABRICATION AND CONSTRUCTION. THIS TIME SHALL BE ALLOWED FOR IN THE CONTRACTOR'S SCHEDULE.

REQUIRED SUBMITTALS:
REQUIRED SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- DEFERRED SUBMITTALS
- CONCRETE MIX DESIGNS
- CONCRETE MASONRY UNITS
- CONCRETE REINFORCEMENT
- STEEL ANCHORAGE AND EMBEDMENTS CAST IN CONCRETE
- STRUCTURAL STEEL

DEFERRED SUBMITTALS: IN ADDITION TO MATERAL OR PRODUCT SPECIFICATIONS OR SHOP DRAWINGS, SUPPORTING CALCULATIONS PREPARED AND SEALED BY AN ENGINEER LICENSED IN THE PROJECT STATE AND RETAINED BY THE CONTRACTOR SHALL BE INCLUDED AS PART OF THE DEFERRED SUBMITTALS. INCLUDE ALL DESIGN INFORMATION AND REACTIONS ON OTHER STRUCTURES IN THE SUBMITTAL. REVIEW OF DEFERRED SUBMITTALS BY THE ENGINEER OF RECORD SHALL NOT IMPLY ANY RESPONSIBILITY FOR THE DESIGN OF THE DEFERRED SUBMITTALS. DEFERRED SUBMITTALS INCLUDE THE FOLLOWING:

- HANDRAILS AND GUARDRAILS
- LADDERS
- STRUCTURAL STEEL CONNECTIONS (NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS)
- COLD-FORMED STEEL FRAMING (NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS)
- COLD-FORMED STEEL TRUSSES
- PRE-ENGINEERED CANOPIES (INCLUDING ATTACHMENTS TO MAIN STRUCTURE)

HANDRAILS AND GUARDRAILS: DESIGN GUARDRAILS, HANDRAILS, AND THEIR CONNECTIONS FOR THE FOLLOWING LIVE LOADS:
A. 200 LBS CONCENTRATED LOAD APPLIED AT ANY POINT AND IN ANY DIRECTION.
B. 50 PLF DISTRIBUTED LOAD APPLIED IN ANY DIRECTION.
C. 50 LBS CONCENTRATED HORIZONTAL LOAD APPLIED ON A 1 FT SQUARE AREA AT ANY POINT IN THE SYSTEM (GUARDRAILS ONLY)
THESE LOADS ARE NOT REQUIRED TO BE APPLIED SIMULTANEOUSLY. EACH SHALL BE APPLIED INDIVIDUALLY TO PRODUCE THE MAXIMUM STRESSES IN EACH OF THE DESIGNED COMPONENTS.

LADDERS: DESIGN LADDERS AND THEIR CONNECTIONS FOR 300 LBS CONCENTRATED LIVE LOAD FOR EVERY 10 FT OF LADDER APPLIED TO PRODUCE THE MAXIMUM STRESS IN EACH DESIGNED COMPONENT. WHERE FIXED LADDER RAILS EXTEND ABOVE A FLOOR AT THE TOP OF THE LADDER, ALSO DESIGN TO RESIST 100 LBS CONCENTRATED LIVE LOADS IN ANY DIRECTION AND ANY LOCATION ABOVE THE FLOOR.

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Nashville, TN 37204
CSAstructures.com
Nashville

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ☐ Construction (95% Checket)
- ■ Construction

REVISIONS

TAYLOR DATSON KIMBRO — REGISTERED ENGINEER — No. 119861 — STATE OF TENNESSEE — 12/22/2023

PROJECT NUMBER:
23079

DRAWN BY:
GLS

DATE:
12.22.23

DRAWING
STRUCTURAL GENERAL NOTES

S001

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CONCRETE

SLAB-ON-GRADE: SLABS-ON-GRADE ARE NOT DESIGNED FOR CONCENTRATED LOADS SUCH AS THOSE FROM FORKLIFTS OR STORAGE RACKS. SEE TYPICAL SLAB ON GRADE DETAILS FOR ALL REQUIREMENTS FOR SLABS-ON-GRADE.

MIX DESIGNS: THE CONCRETE MIX TABLE SHOWN BELOW SHALL APPLY TO ALL CONCRETE MIX DESIGNS USED ON THIS PROJECT. MIX DESIGN SUBMITTALS SHALL BE IDENTIFIED FOR INTENDED STRUCTURAL USE AND SUBMITTED TO THE OWNER'S REPRESENTATIVE AND STRUCTURAL ENGINEER FOR REVIEW TWO WEEKS PRIOR TO PLACING ANY CONCRETE.

MIX PROPORTIONING: ALL CONCRETE MIX DESIGNS SHALL BE PROPORTIONED IN ACCORDANCE WITH SECTION 5.3 (FIELD EXPERIENCE AND/OR TRIAL MIXTURES) OF ACI 318. SUBMIT MIX DESIGN FOR EACH CLASS OF CONCRETE. IF A STANDARD DEVIATION ANALYSIS IS USED, THE CONCRETE SHALL ACHIEVE AN AVERAGE STRENGTH IN ACCORDANCE WITH TABLE 5.3.2.2 OF ACI 318. SUBMITTALS MADE WHICH DO NOT CONFORM TO ACI 318 SECTION 5.3 SHALL BE REJECTED.

CONCRETE MIX DESIGNS

CONCRETE USAGE	fc (PSI) 28 DAY (MIN)	ENTRAINED AIR	W/C RATIO (MAX)	MAXIMUM AGGREGATE SIZE	EXPOSURE CLASS
FOOTINGS	3,000	5% (+/- 1.5%)	0.50	1"	F1
INTERIOR SLAB ON GRADE	4,000	NONE	0.50	1"	F0
EXTERIOR SLAB ON GRADE	4,000	5% (+/- 1.5%)	0.50	1"	F2

CEMENT CONTENT: SCHEDULE CEMENT CONTENT IS THE MINIMUM TOTAL CEMENTITIOUS MATERIALS CONTENT INCLUDING PORTLAND CEMENT AND FLY ASH.

ADMIXTURES: WATER-REDUCING ADMIXTURES CONFORMING TO ASTM C494 MAY BE INCORPORATED IN THE CONCRETE MIX DESIGNS AND BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. CALCIUM CHLORIDE OR OTHER WATER-SOLUBLE CHLORIDE ADMIXTURES SHALL NOT BE USED.

AIR CONTENT: AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260 SHALL BE USED IN ALL CONCRETE MIXES FOR WORK THAT IS EXPOSED TO WEATHER. WHERE ENTRAINED AIR IS NOT SCHEDULED, DO NOT ALLOW THE AIR CONTENT OF SLABS TO EXCEED 3% NATURALLY. THE AMOUNT OF ENTRAINED AIR SHALL BE MEASURED IN THE FIELD AT THE DISCHARGE END OF THE PLACING HOSE.

LABORATORY TESTING: LABORATORY TESTING WILL BE REQUIRED IN ACCORDANCE WITH ASTM C31. PERFORM COMPRESSION TEST PER ASTM C39; AIR CONTENT TEST PER ASTM C138 (GRAVIMETRIC METHOD), ASTM C173 (VOLUMETRIC METHOD), OR ASTM C231 (PRESSURE METHOD); SLUMP TEST PER ASTM C143.

LABORATORY SHALL TEST THE NUMBER OF CYLINDERS SPECIFIED BELOW FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF:
- 2 AT 7 DAYS FOR INFORMATION
- 2 AT 28 DAYS FOR ACCEPTANCE

NON-STRUCTURAL EMBEDS: REFER TO DRAWINGS OF OTHER DISCIPLINES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON STRUCTURAL DRAWINGS.

REINFORCING STEEL MATERIALS:

DEFORMED BARS	ASTM A615, GRADE 60
SMOOTH WELDED WIRE FABRIC (WWF)	ASTM A185 (Fy = 65,000 PSI)

REINFORCING STEEL DETAILING: REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH ACI 315 – DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.

REINFORCING STEEL PLACEMENT: ALL REINFORCEMENT SHALL BE HELD SECURELY IN POSITION WITH STANDARD ACCESSORIES IN CONFORMANCE WITH CRSI MANUAL OF STANDARD PRACTICE AND ACI 315 DURING CONCRETE PLACEMENT. REINFORCING PLACEMENT SHALL BE APPROVED BY THE ARCHITECT OR THEIR AUTHORIZED REPRESENTATIVE BEFORE CONCRETE IS PLACED.

REBAR SPLICES: LAP REINFORCING BARS AS NOTED ON THE DRAWINGS. WHERE SPLICE LENGTH IS NOT SHOWN, USE TYPE 'Ls' SPLICE PER DEVELOPMENT AND SPLICE LENGTH SCHEDULE. MECHANICAL OR WELDED BUTT SPLICES SHALL BE SUBJECT TO STRUCTURAL ENGINEER'S APPROVAL. MECHANICAL SPLICES, WHERE ALLOWED ON THE PLANS, SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE SPLICED BARS IN BOTH TENSION AND COMPRESSION. LAP SPLICES OF BOTTOM BARS SHALL OCCUR AT A SUPPORT. LAP SPLICES OF TOP STEEL SHALL OCCUR AT MID SPAN.

FIELD BENDING: NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY DETAILED AS SUCH OR APPROVED BY THE STRUCTURAL ENGINEER.

WELDING: REINFORCING BARS SHALL NOT BE WELDED OR TACK WELDED TO OTHER BARS OR TO PLATES, ANGLES, ETC. UNLESS SPECIFICALLY APPROVED BY THE ENGINEER. WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS DI.4. WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS QUALIFIED FOR WELDS USING APPROVED ELECTRODES.

CONCRETE PROTECTION: CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

CAST AGAINST AND PERMANENTLY
EXPOSED TO EARTH.....3"

EXPOSED TO EARTH OR WEATHER
- #5 OR SMALLER.....1 1/2"
- #6 OR LARGER.....2"

MISC CONCRETE PADS: COORDINATE CONCRETE EQUIPMENT PAD AND HOUSE KEEPING PAD LOCATIONS AND DIMENSIONS WITH ARCH, MECHANICAL, ELECTRICAL, PLUMBING, AND OWNER REQUIREMENTS.

CONCRETE PLACEMENT: ALL CONCRETE SHALL BE VIBRATED.

STRUCTURAL STEEL

STRUCTURAL STEEL MATERIALS:

WIDE FLANGE SHAPES	ASTM A992, Fy = 50 KSI
COLUMN BASE PLATES	ASTM A572, GRADE 50
HOLLOW STRUCTURAL SECTIONS (HSS)	
RECTANGULAR & SQUARE	ASTM A500, GRADE B, Fy = 46 KSI
ROUND	ASTM A500, GRADE B, Fy = 42 KSI
STEEL PIPE	ASTM A53, GRADE B, Fy = 35 KSI
OTHER STEEL SHAPES AND PLATES	ASTM A36, Fy = 36 KSI
STRUCTURAL BOLTS	ASTM A325 OR A490
COLUMN ANCHOR RODS	ASTM F1554, GRADE 36
THREADED RODS	ASTM A36
WELDING ELECTRODES	E70XX
DEFORMED BAR ANCHORS (DBA)	ASTM A496, Fy = 70 KSI
WELDED HEADED STUDS (WHS)	ASTM A108, Fy = 50 KSI
WELDED THREADED STUDS (WTS)	ASTM A108, Fy = 50 KSI

DESIGN METHOD: STRUCTURAL STEEL HAS BEEN DESIGNED IN ACCORDANCE WITH THE LOAD AND RESISTANCE FACTOR DESIGN METHOD.

MISCELLANEOUS STEEL: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION AIDS AND JOINT PREPARATIONS THAT INCLUDE, BUT ARE NOT LIMITED TO, ERECTION ANGLES, LIFT HOLES AND OTHER AIDS, WELDING PROCEDURES, REQUIRED ROOT OPENINGS, ROOT FACE DIMENSIONS, GROOVE ANGLES, BACKING BARS, COPES, SURFACE ROUGHNESS VALUES, AND TAPERS OF UNEQUAL PARTS.

PAINTING: STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED IF NOTED ON THE ARCHITECTURAL DRAWINGS OR SPECIFICATIONS. PRIMER SHALL BE THE FABRICATOR'S STANDARD LEAD AND CHROMATE FREE, NON-ASPHALTIC, RUST-INHIBITING PRIMER. STEEL ANCHORS, TIES AND OTHER MEMBERS EMBEDDED IN CONCRETE OR MASONRY SHALL BE LEFT UNPAINTED. STEEL ENCASED WITH CEMENTITIOUS FIREPROOFING SHALL NOT BE PAINTED.

HIGH-STRENGTH BOLTS: HIGH-STRENGTH BOLTS SHALL BE INSTALLED, TIGHTENED, AND INSPECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS. BOLT HOLES SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.

NUTS: NUTS SHALL BE SELECTED BASED OFF REQUIREMENTS OF ASTM A563 AND INSPECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.

WASHERS: HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN THE OUTER PLY OF A CONNECTION. A PLATE WASHER AT LEAST 5/16 INCH THICK WITH STANDARD HOLES SHALL BE INSTALLED OVER LONG SLOTTED HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.

ANCHOR RODS: PROVIDE HEAVY HEX NUTS AND WASHERS COMPLYING WITH THE REQUIREMENTS OF TABLE 14-2 IN THE AISC STEEL CONSTRUCTION MANUAL UNLESS THICKER AND/OR LARGER WASHERS ARE NOTED ON THE DRAWINGS. HOLE DIAMETER IN WASHERS SHALL BE THE ANCHOR ROD DIAMETER + 1/16 INCH. IN LIEU OF HEADED RODS, THREADED RODS WITH A HEAVY HEX NUT FULLY ENGAGED AND TACK WELDED TO THE EMBEDDED END MAY BE USED.

COLUMN ANCHOR BOLT HOLES SHALL BE OVERSIZED IN ACCORDANCE WITH THE FOLLOWING:
- ROD DIAMETERS 3/4 INCH TO 1 INCH - 5/16 INCH OVERSIZE
- ROD DIAMETERS 1 INCH TO 2 INCH - 1/2 INCH OVERSIZE
- ROD DIAMETERS OVER 2 INCH - 1 INCH OVERSIZE

COLUMN BRACING: BASE PLATE CONNECTIONS ARE NOT DESIGNED TO PROVIDE STABILITY OF COLUMNS DURING ERECTION. COLUMNS SHALL BE TEMPORARILY BRACED BY THE ERECTOR PRIOR TO RELEASE OF THE COLUMN FROM THE HOISTING EQUIPMENT.

GROUT: GROUT USED UNDER COLUMN BASE PLATES SHALL BE CEMENT BASED, NON-SHRINK, NON-METALLIC GROUT. THE GROUT SHALL EXHIBIT NO SHRINKAGE IN ACCORDANCE WITH ASTM C827 AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 5000 PSI WHEN TESTED IN ACCORDANCE WITH ASTM C109.

WELDING: WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SHALL BE PERFORMED BY AWS CERTIFIED WELDERS USING ASTM E70 SERIES ELECTRODES FOR SHOP WELDING A36 STEEL, AND E70 SERIES LOW HYDROGEN ELECTRODES FOR ALL WELDING OF HIGH STRENGTH STEELS AND FOR ALL FIELD WELDING.

ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. WELDS SHOWN ON THE DRAWINGS ARE THE MINIMUM SIZE. INCREASE WELD SIZE TO AWS MINIMUM SIZES BASED ON PLATE THICKNESS. MINIMUM WELD SIZE SHALL BE 3/16 INCH. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS.

WHEN WELDS ARE NOT CALLED-OUT ON DRAWINGS, THEY ARE MINIMUM SIZE CONTINUOUS FILLET WELDS IN ACCORDANCE WITH AWS D1.1. FILLET WELDS NOT SPECIFIED AS TO LENGTH SHALL BE CONTINUOUS.

WELDING INSPECTION: ALL FILLET WELDS BY EACH WELDER SHALL BE VISUALLY INSPECTED. ALL COMPLETE PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING.

BELOW GRADE STEEL: PROTECT ALL STEEL BELOW GRADE BY ENCASING IN CONCRETE OR PAINTING WITH BITUMASTIC PAINT.

FABRICATION & ERECTION: FABRICATOR AND ERECTION SHALL BE APPROVED BY THE ARCHITECT. FABRICATOR SHALL HAVE BEEN IN BUSINESS FOR PERIOD OF THREE CONSECUTIVE YEARS AND SHALL PROVIDE PROOF THAT THEY HAVE FABRICATED A MINIMUM OF FIVE JOBS OF SIZE AND COMPLEXITY EQUAL TO THAT INDICATED ON THESE DRAWINGS.

NON-STRUCTURAL COMPONENT ATTACHMENT: THE CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF A METHOD TO TRANSFER GRAVITY AND LATERAL LOADS FROM NON-STRUCTURAL ITEMS OCCURRING BETWEEN STRUCTURAL FRAMING TO ADJACENT FRAMING MEMBERS. IF STRUCTURAL FRAMING CONSISTS OF JOISTS OR JOIST GIRDERS, SPECIAL PROVISIONS APPLY. SEE STEEL JOIST AND JOIST GIRDER NOTES FOR FURTHER INFORMATION.

GUSSET PLATES: GUSSET PLATES SHALL BE A MINIMUM OF 3/8 INCH THICK UNLESS NOTED OTHERWISE.

COLD-FORMED STEEL (SEE SPECS FOR ADDITIONAL INFORMATION)

APPLICABILITY: THIS SECTION SHALL APPLY ONLY TO STRUCTURAL COLD-FORMED STEEL FRAMING: JOISTS, BEARING WALLS, SHEAR WALLS, AND EXTERIOR WALLS. NON-STRUCTURAL COLD-FORMED STEEL FRAMING SHALL BE CONSTRUCTED AS DETAILED BY THE ARCHITECT AND THE PROJECT SPECIFICATIONS.

MEMBERS: COLD-FORMED STEEL FRAMING SHALL BE OF THE TYPE, SHAPE, SIZE, GAUGE, AND SPACING AS SHOWN ON THE DRAWINGS. MEMBER CALLOUTS REFER TO PRODUCTS MANUFACTURED BY STEEL STUD MANUFACTURERS ASSOCIATION (SSMA), ICC REPORT ESR-3064P. MEMBER SIZES INDICATED IN THE DRAWINGS ARE THE MINIMUM SIZE REQUIRED FOR THE DESIGN LOADS. THE CONTRACTOR SHALL PROVIDE MINIMUM GAUGE FOR STUDS, JOISTS, BRIDGING, AND BRACING AS REQUIRED FOR THE UL ASSEMBLIES SPECIFIED IN THE ARCHITECTURAL DRAWINGS.

MATERIAL PROPERTIES: 16 GAUGE (54 MIL) AND HEAVIER COLD-FORMED STEEL STRUCTURAL STUDS, TRACKS, AND JOISTS SHALL BE FORMED FROM ASTM A653, STEEL WITH A MINIMUM Fy = 50 KSI. ALL 18 GAUGE (43 MIL) AND LIGHTER COLD-FORMED STEEL STRUCTURAL STUDS, TRACKS, AND JOISTS SHALL BE FORMED FROM ASTM A653, WITH A MINIMUM Fy = 33 KSI. ALL STUDS, TRACKS AND JOISTS SHALL BE GALVANIZED ACCORDING TO ASTM A924. STUDS, RUNNERS (TRACK), BRACING AND BRIDGING SHALL BE MANUFACTURED PER ASTM C955.

CONNECTORS: COLD-FORMED STEEL CONNECTOR CALLOUTS REFER TO PRODUCTS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY. INSTALL CONNECTORS ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS AND THE DRAWINGS. INSTALL TO OBTAIN MAXIMUM LOAD SHOWN IN MANUFACTURER'S CATALOG, UNO.

FASTENINGS: FASTENINGS SHALL BE AS SHOWN ON THE DRAWINGS USING CORROSION-RESISTANT SELF DRILLING SCREWS OR WELDING. FASTENINGS NOT SHOWN SHALL BE AS RECOMMENDED BY THE MANUFACTURER AND SHALL MEET MINIMUM FASTENER AND SCREW PATTERNS IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE. MINIMUM CONNECTIONS SHALL BE ACCOMPLISHED WITH SELF-DRILLING SCREWS (MINIMUM (2)-#10 SCREWS IN EACH MEMBER) OR WELDING (MINIMUM, 1/8" x 1" FILLET WELDS), AT THE TOP AND BOTTOM OF THE RESPECTIVE MEMBERS WEB. WIRE TYING OF COMPONENTS SHALL NOT BE PERMITTED. ALL WELDS SHALL BE TOUCHED UP WITH ZINC PAINT.

PRE-PUNCHED OPENINGS: ALIGN PREPUNCHED HOLES IN STUDS FOR PLUMBING AND ELECTRICAL CONDUITS. PROVIDE NON-PUNCHED/SOLID STUDS AT JAMBS FOR OPENINGS PER ARCH.

MEMBER SPLICES: SPLICING OF FRAMING COMPONENTS SHALL NOT BE PERMITTED.

COLD-FORMED STEEL TRUSSES (DEFERRED SUBMITTAL)

TRUSS DESIGN: PREFABRICATED PRE-ENGINEERED COLD FORMED STEEL TRUSS SYSTEM SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH AISI S214 AND THE BUILDING CODE FOR THE SPANS AND CONDITIONS SHOWN IN THE CONSTRUCTION DOCUMENTS. THE DESIGN LOADING FOR ROOF TRUSS SYSTEM SHALL BE:

ROOF TRUSSES

TOP CHORD DEAD LOAD	10 PSF PLUS ANY OVERBUILD OR MECHANICAL LOADS INDICATED ON THE PLANS
TOP CHORD ROOF LIVE LOAD	20 PSF
TOP CHORD BALANCED SNOW LOAD	10 PSF
TOP CHORD SNOW DRIFT LOAD	SEE PLAN
TOP CHORD WIND LOAD	SEE C&C WIND PRESSURE DIAGRAM
BOTTOM CHORD DEAD LOAD	5 PSF
BOTTOM CHORD LIVE LOAD	10 PSF

TRUSS MATERIAL COATING: ALL STRUCTURAL MEMBERS SHALL BE ZINC COATED IN ACCORDANCE WITH ASTM A924.

TRUSS DEFLECTION: LIMIT ROOF TRUSS DEFLECTIONS TO L/360 FOR ROOF LIVE LOAD AND L/240 FOR TOTAL LOAD (DEAD + ROOF LIVE).

TRUSS GEOMETRY: ROOF TRUSS TOP CHORDS SHALL BE SLOPED TO FORM THE ROOF SLOPE, UNO. ALL TRUSSES ARE ASSUMED TO BE SIMPLE SPAN, UNO. COORDINATE GEOMETRY OF TRUSS MEMBERS WITH MECHANICAL, ELECTRICAL, SPRINKLER, ARCHITECTURAL AND BUILDING CODE REQUIREMENTS. ALL AREAS WHERE TRUSSES ARE NOT SPECIFICALLY NOTED SHALL BE STICK FRAMED. VALLEY AND RIDGE SETS OF TRUSSES WILL NOT BE ALLOWED UNLESS WRITTEN APPROVAL HAS BEEN RECEIVED FROM THE ARCHITECT PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.

DEFERRED SUBMITTAL: THE PREFABRICATED TRUSS SYSTEM IS A DEFERRED SUBMITTAL. PRODUCTS SHALL BE DESIGNED BY THE MANUFACTURER FOR THE SPANS AND CONDITIONS SHOWN IN THE CONSTRUCTION DOCUMENTS AND SHALL BE FURNISHED AND INSTALLED IN CONFORMANCE WITH THE MANUFACTURER'S PUBLISHED SPECIFICATIONS. PROVIDE FOR SHAPES, BEARING POINTS, INTERSECTIONS, HIPS, VALLEYS, ETC, SHOWN ON THE DRAWINGS. EXACT COMPOSITION OF SPECIAL HIP, VALLEY, AND INTERSECTION AREAS (USE OF GIRDER TRUSSES, JACK TRUSSES, STEP-DOWN TRUSSES, ETC) SHALL BE DETERMINED BY THE MANUFACTURER UNLESS SPECIFICALLY INDICATED IN THE CONSTRUCTION DOCUMENTS. PROVIDE TRUSS-TO-TRUSS CONNECTION DETAILS AND REQUIRED CONNECTION MATERIALS. SUBMIT SHOP DRAWINGS AND DESIGN CALCULATIONS TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

TRUSS CALCULATIONS: THE TRUSS SYSTEM CALCULATION PACKAGE SHALL BE DESIGNED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER LICENSED IN THE PROJECT STATE. THE TRUSS SYSTEM ENGINEER SHALL ASSUME ALL RESPONSIBILITY FOR THE WORK OF ALL SUBORDINATES INVOLVED IN THE PREPARATION OF THE TRUSS DESIGN DRAWINGS AND PLACEMENT PLANS.

FRAMING LOAD PATH: THE TRUSS SYSTEM IS A PRE-ENGINEERED SYSTEM DESIGNED BY SPECIALTY ENGINEERS TO THE CRITERIA IN THE CONSTRUCTION DOCUMENTS. THE TRUSS SYSTEM SHALL BE PROVIDED TO COMPLETE THE ROOF FRAMING FROM THE ROOF SHEATHING TO THE SUPPORTING MEMBERS BELOW. TRUSSES SHALL NOT PLACE HORIZONTAL REACTIONS ON SUPPORTING MEMBERS.

OVER FRAMING: WHERE OVER FRAMING IS USED TO COMPLETE THE ROOF SYSTEM, OVER FRAMING MEMBERS AND THEIR CONNECTIONS SHALL BE UNDER THE DIRECTION OF THE TRUSS SYSTEM DESIGNER IN ORDER TO PROVIDE A LOADING CONDITION CONSISTENT WITH THE MODELING OF THE TRUSSES. THE TRUSS SYSTEM DESIGNER SHALL INCLUDE OVER FRAMING DETAILS WITH THE PRE-ENGINEERED TRUSS PACKAGE.

TRUSS LAYOUT: TRUSS LOCATIONS ARE SCHEMATICALLY SHOWN ON THE PLANS. IT IS NOT THE INTENT OF THE STRUCTURAL PLANS TO GRAPHICALLY LOCATE ALL FRAMING MEMBERS EXCEPT FOR WHERE CALLED OUT. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING SHOP DRAWINGS FOR MEMBER LAYOUT, CONSTRUCTABILITY AND QUANTITY TAKEOFFS.

TRUSS BEARING: TRUSS BEARING LOCATIONS ARE INDICATED IN THE CONSTRUCTION DOCUMENTS. ALL TRUSS TO TRUSS CONNECTIONS ARE TO BE DESIGNED AND CALLED OUT BY THE TRUSS MANUFACTURER. TRUSSES SHALL BE FASTENED TO SUPPORTING MEMBERS WITH SCREWS AND HOLD DOWN CLIPS ACCORDING TO THE BUILDING CODE AND THE ROOF TRUSS FASTENER SCHEDULE IN THESE DRAWINGS.

TRUSS ALIGNMENT: TYPICALLY ALIGN ROOF TRUSSES OVER/WITH SHEAR WALLS. VERIFY WITH CONTRACTOR THE CHOICE TO USE ALTERNATE SHEAR TRANSFER DETAILS WHERE TRUSSES NEED NOT BE ALIGNED. WHERE TRUSSES ALIGN OVER SHEAR WALLS, THE TRUSS SYSTEM DESIGNER SHALL PROVIDE A TRUSS TO CARRY THE DRAG LOAD NOTED ON THE PLAN FROM THE ROOF SHEATHING TO THE SHEAR WALL BELOW OR A MINIMUM OF 150 PLF. DRAG TRUSSES SHALL BE MODELED ACCORDING TO THE ACTUAL SUPPORT CONDITIONS AS SHOWN ON THE PLAN. HORIZONTAL REACTIONS SHALL BE RESISTED ONLY BY LATERAL ELEMENTS SUCH AS SHEARWALLS ACCORDING TO THE DETAILS AND ACTUAL FRAMING CONDITIONS.

TRUSS BRACING: ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR THE STABILITY OF THE TRUSS ELEMENTS UNDER GRAVITY LOADS, IN-PLANE DRAG LOADS, AND UPLIFT LOADS SHALL BE DESIGNED BY THE TRUSS SYSTEM DESIGNER. WHERE THE TOP CHORD IS NOT DIRECTLY ATTACHED TO THE ROOF DECKING OR SHEATHING, THE TRUSS SYSTEM DESIGNER SHALL DESIGN AND DIRECT THE PLACEMENT OF ALL REQUIRED TOP CHORD BRACING INCLUDING THEIR CONNECTIONS. ANY BRACING LOADS TRANSFERRED TO THE MAIN BUILDING SYSTEM WALL, ETC. SHALL BE IDENTIFIED AND SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

SUBMITTALS: IN ADDITION TO THE REQUIREMENTS INDICATED IN THE SUBMITTALS SECTION, COLD-FORMED STEEL TRUSSES SUBMITTALS SHALL ALSO INCLUDE THE FOLLOWING DESIGNED AND SEALED BY AN ENGINEER IN THE PROJECT STATE:
1. KEY PLAN SHOWING EACH TRUSS LOCATION.
2. INDIVIDUAL TRUSS DESIGNS.
3. PERMANENT BRACING REQUIREMENTS INCLUDING PLACEMENT AND CONNECTION DETAILS.
4. TRUSS DRAWINGS SHALL SPECIFY ALL TRUSS-TO-TRUSS CONNECTIONS/HARDWARE TO MEET THE REQUIREMENTS OF THE PLAN. OVERFRAMING CONNECTIONS AND PLACEMENT DETAILS.

SHOP DRAWINGS MAY CONTAIN THE MANUFACTURER'S ENGINEERING RESPONSIBILITY LIMITATIONS. HOWEVER, THEY SHALL MAKE NO STATEMENT AS TO THE ENGINEER OF RECORD'S RESPONSIBILITIES.

OPENING COORDINATION: COORDINATE THE SIZE AND LOCATION OF ALL OPENINGS AND ROOF TOP EQUIPMENT WITH THE TRADES REQUIRING THEM AND THE WOOD TRUSS SYSTEM MANUFACTURER.

WOOD

WOOD STRUCTURAL PANELS (SHEATHING): WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS 1, DOC PS 2, OR ANSI/APA PRP 210 AS APPLICABLE, AND SHALL BE MARKED IDENTIFYING GRADE, BOND CLASSIFICATION, AND PERFORMANCE CATEGORY. USE OF OSB PANELS MUST ALSO MEET THE APPROVAL OF THE ARCHITECT. FURNISH WOOD STRUCTURAL PANELS TO THE FOLLOWING PERFORMANCE CATEGORY, GRADE, AND SPAN RATING UNLESS NOTED OTHERWISE:

ROOF SHEATHING SHALL BE 19/32"(OR 5/8") APA RATED SHEATHING (T&G) WITH SPAN RATING OF 40/20

WALL SHEATHING SHALL BE 7/16" APA RATED SHEATHING WITH SPAN RATING 24/16

ROOF SHEATHING SHALL BE ORIENTED OVER SUPPORTS AND FASTENED IN ACCORDANCE WITH THE TYPICAL ATTACHMENT DETAILS. PANELS PERMANENTLY EXPOSED TO WEATHER SHALL BE EXTERIOR TYPE; HOWEVER, PANELS EXPOSED ON THE UNDERSIDE MAY BE EXPOSURE 1. WOOD STRUCTURAL PANELS SHALL BE PROTECTED FROM WATER DAMAGE WHILE STORED AT THE JOB SITE.

POST-INSTALLED ANCHORS

INSTALLATION: INSTALL ANCHORS PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) AND IN ACCORDANCE WITH SPACING AND EDGE DISTANCES INDICATED ON THE DRAWINGS.

POST-INSTALLED DRILLING: HOLES FOR INSTALLING REINFORCING BARS, BOLTS, THREADED RODS AND INSERTS SHALL BE DRILLED USING THE ICC APPROVED DRILLING METHOD FOR THE ANCHOR TO BE INSTALLED. NON-DESTRUCTIVELY LOCATE EXISTING REINFORCING PRIOR TO DRILLING. DO NOT CUT EXISTING REINFORCING.

THREADED RODS: ADHESIVE ANCHORS SHALL USE ASTM F1554 GRADE 36 THREADED RODS, UNO

INSTALLATION TRAINING: PRIOR TO COMMENCEMENT OF WORK, THE CONTRACTOR SHALL ARRANGE FOR A MANUFACTURER'S FIELD REPRESENTATIVE TO PROVIDE INSTALLATION TRAINING FOR ALL PRODUCTS TO BE USED. ONLY TRAINED INSTALLERS SHALL PERFORM POST INSTALLED ANCHOR INSTALLATION. A RECORD OF TRAINING SHALL BE KEPT ON SITE AND BE MADE AVAILABLE TO THE EOR AS REQUESTED.

MINIMUM CONCRETE AGE: ADHESIVE ANCHORS MUST BE INSTALLED IN CONCRETE AGED A MINIMUM OF 21 DAYS.

ALLOWABLE ANCHORS: THE FOLLOWING TABLE OF ANCHORS REPRESENT THE DEFAULT PRODUCTS USED IN DESIGN. WHERE SPECIFIC PRODUCTS ARE NOT OTHERWISE CALLED OUT IN THE STRUCTURAL DRAWINGS, THIS TABLE SHALL CONTROL.

BASE MATERIAL	ADHESIVE	EXPANSION ANCHOR	SCREW ANCHOR	PAF
HILTI				
CONCRETE	HIT-HY 200-R V3	KWIK BOLT TZ2	KH-EZ	X-C P8*
CMU (GROUTED)	HIT-HY 200-R V3	KWIK BOLT 3	KH-EZ	---
CMU (HOLLOW)	HIT-HY 270 W/ HIT-SC SCREEN TUBE	HLC-H SLEEVE	KWIK CON II+	---
CLAY BRICK (URM)	HIT-HY 270 W/ HIT-SC SCREEN TUBE	---	KWIK CON II+	---
STEEL	---	---	S-MD KF SELF-DRILLING #10-16	X-U MX
* USE X-C P8S FOR WOOD SILL PLATE TO CONCRETE				
SIMPSON STRONG-TIE				
CONCRETE	SET-3G	STRONG-BOLT 2	TITEN HD	PDPA**
CMU (GROUTED)	SET-3G	STRONG-BOLT 2	TITEN HD	PDPA
CMU (HOLLOW)	SET-3G W/ EWSP EPOXY ADHESIVE SCREEN TUBE	---	TITEN HD	---
CLAY BRICK (URM)	ET-HP W/ ETS SCREEN TUBE	SLEEVE-ALL	TITEN TURBO	---
STEEL	---	---	STRONG DRIVE SELF-DRILLING X METAL SCREW #10-16	PDPA
** USE PDPAWL FOR WOOD SILL PLATE TO CONCRETE				

NOTES:
1. CLAY BRICK (URM) REFERS TO SOLID UNREINFORCED MASONRY WALLS CONSTRUCTED WITH CLAY BRICK.

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ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ☐ Construction (95% Checket)
- ☑ Construction

REVISIONS

TAYLOR DATSON KIDWELL REGISTERED ENGINEER NO. 119067 STATE OF TENNESSEE 12/22/2023

PROJECT NUMBER:
23079

DRAWN BY:
GLS

DATE:
12.22.23

DRAWING
STRUCTURAL GENERAL NOTES

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GENERAL:

1. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED AGENT OR AGENCY HIRED BY THE OWNER OR THE OWNER'S AUTHORIZED REPRESENTATIVE OTHER THAN THE CONTRACTOR.
2. THE SPECIAL INSPECTOR SHALL BE COMPETENT AND HAVE DOCUMENTED RELEVANT EXPERIENCE OR TRAINING FOR THE PARTICULAR TYPE OF CONSTRUCTION. EXPERIENCE OR TRAINING SHALL BE CONSIDERED RELEVANT IF THE DOCUMENTED PROJECTS INSPECTION AND TESTING ARE SIMILAR IN COMPLEXITY AND MATERIAL QUALITIES.
3. CONSTRUCTION OR WORK REQUIRED SPECIAL INSPECTION OR TESTING SHALL REMAIN ACCESSIBLE AND EXPOSED UNTIL SPECIAL INSPECTION OR TESTING HAS BEEN COMPLETED.
4. THE APPROVED AGENT OR AGENCY SHALL BE NOTIFIED THAT CONSTRUCTION OR WORK REQUIRING SPECIAL INSPECTION OR TESTING IS READY AT LEAST ONE WORKING DAY BEFORE SPECIAL INSPECTION OR TESTING IS REQUIRED.
5. THE APPROVED AGENCY SHALL MAINTAIN RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS. COPIES OF INSPECTION AND TESTING REPORTS SHALL BE PROVIDED TO THE ENGINEER OR RECORD, CONTRACTOR, OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE, AND BUILDING OFFICIAL ON A BI-WEEKLY BASIS, OR MORE FREQUENTLY IF SPECIFICALLY REQUESTED BY ONE OF THE ABOVE PARTIES. REPORTS SHOULD INDICATE IF CONSTRUCTION OR WORK INSPECTED OR TESTED WAS IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, AND THEN TO THE ATTENTION OF THE BUILDING OFFICIAL AND ENGINEER OF RECORD IF NOT CORRECTED.
6. THE APPROVED AGENCY SHALL PREPARE A SIGNED REPORT DOCUMENTING ALL SPECIAL INSPECTIONS AND TEST AND ANY REQUIRED CORRECTIONS. THIS COPY OF THIS REPORT SHALL BE PROVIDED TO THE ENGINEER OF RECORD, CONTRACTOR, OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE, AND BUILDING OFFICIAL.
7. THE CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR A WIND- OR SEISMIC FORCE-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER OR OWNER'S AUTHORIZED REPRESENTATIVE AND THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT ACKNOWLEDGING AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS.
8. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH THE CONTRACT DOCUMENTS.

STATEMENT OF SPECIAL INSPECTIONS:

1. THE SPECIAL INSPECTION SCHEDULES ON THIS SHEET INDICATE THE MATERIALS, SYSTEMS, COMPONENTS, AND WORK ALONG WITH THE TYPES AND EXTENTS OF SPECIAL INSPECTIONS AND TESTS REQUIRED FOR THIS PROJECT.
2. THIS STATEMENT OF SPECIAL INSPECTIONS ENCOMPASSES THE FOLLOWING DISCIPLINES: STRUCTURAL.
3. SPECIAL INSPECTIONS AND TESTS FOR SEISMIC RESISTANCE ARE NOT REQUIRED.
4. SPECIAL INSPECTIONS FOR WIND RESISTANCE ARE NOT REQUIRED.

SPECIAL INSPECTION SCHEDULE: SOILS

VERIFICATION AND INSPECTION TASK	FREQUENCY	
	CONTINUOUS	PERIODIC
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	--	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	--	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIAL.	--	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	--
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	--	X
6. REFER TO THE PROJECT GEOTECHNICAL REPORT FOR ANY ADDITIONAL SPECIAL INSPECTION REQUIREMENTS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.	X	--

SPECIAL INSPECTION SCHEDULE: CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY	
	CONTINUOUS	PERIODIC
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT	--	X
2. REINFORCING BAR WELDING:		
A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	--	X
B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	--	X
C. INSPECT ALL OTHER WELDS.	X	--
3. INSPECT ANCHORS CAST IN CONCRETE.	--	X
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS (NOTE A):		
A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	X	--
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A.	--	X
5. VERIFY USE OF REQUIRED DESIGN MIX.	--	X
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	--
7. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	--
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	--	X
9. INSPECT PRESTRESSED CONCRETE FOR:		
A. NOT USED		
B. NOT USED		
10. NOT USED		
11. NOT USED		
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	--	X

NOTES:
(A) SPECIFIC REQUIREMENTS FOR SPECIAL INSPECTION SHALL BE INCLUDED IN THE RESEARCH REPORT FOR THE ANCHOR ISSUED BY AN APPROVED SOURCE. WHERE SPECIFIC REQUIREMENTS ARE NOT PROVIDED. SPECIAL INSPECTION REQUIREMENTS SHALL BE SPECIFIED BY THE REGISTERED DESIGN PROFESSIONAL AND SHALL BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF THE WORK.

SPECIAL INSPECTION SCHEDULE: WOOD CONSTRUCTION

VERIFICATION AND INSPECTION TASK	FREQUENCY	
	CONTINUOUS	PERIODIC
1. NOT USED		
2. INSPECTION OF SITE BUILT DIAPHRAGMS:		
A. VERIFY GRADE AND THICKNESS OF SHEATHING	--	X
B. VERIFY NOMINAL SIZE OF FRAMING MEMBERS AT ADJOINING PANEL EDGES	--	X
C. VERIFY NAIL OR STAPLE DIAMETER AND LENGTH	--	X
D. VERIFY NUMBER OF FASTENER LINES	--	X
E. VERIFY SPACING BETWEEN FASTENERS IN EACH LINE AND AT EDGE MARGINS	--	X
3. NOT USED		
4. NOT USED		

SPECIAL INSPECTION SCHEDULE: STRUCTURAL STEEL

VERIFICATION AND INSPECTION TASK	FREQUENCY	
	CONTINUOUS	PERIODIC
1. PRIOR TO CONCRETE PLACEMENT, VERIFY THE FOLLOWING FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS:		
A. DIAMETER	--	X
B. GRADE	--	X
C. TYPE	--	X
D. LENGTH	--	X
E. EMBEDMENT DEPTH	--	X
2. INSPECT THE ERECTED STEEL TO VERIFY THE FOLLOWING FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS:		
A. NOT USED		
B. STIFFENERS	--	X
C. MEMBER LOCATIONS	--	X
D. CORRECT APPLICATION OF JOINT DETAILS AT EACH CONNECTION	--	X
3. INSPECT GALVANIZED STRUCTURAL STEEL MAIN MEMBERS AND EXPOSED CORNERS OF RECTANGULAR HSS FOR CRACKS SUBSEQUENT TO GALVANIZING	X	--

SPECIAL INSPECTION SCHEDULE: STRUCTURAL STEEL BOLTING

VERIFICATION AND INSPECTION TASK	FREQUENCY	
	CONTINUOUS	PERIODIC
PRIOR TO BOLTING		
1. VERIFY MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	X	--
2. VERIFY FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	--	X
3. VERIFY CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE)	--	X
4. VERIFY CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	--	X
5. VERIFY CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	--	X
6. OBSERVE AND DOCUMENT PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL FOR FASTENER ASSEMBLIES AND METHODS USED (NOTE A)	--	X
7. VERIFY PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	--	X
DURING BOLTING		
8. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED	NOTE B	X
9. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	NOTE B	X
10. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING (NOTE A)	NOTE B	X
11. VERIFY FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES (NOTE A)	NOTE B	X
AFTER BOLTING		
12. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X	--

NOTES:
(A) TASK NOT REQUIRED FOR SNUG-TIGHTENDED JOINTS
(B) INSPECTION SHALL BE CONTINUOUS FOR PRETENSIONED JOINTS AND SLIP-CRITICAL JOINTS WHEN INSTALLED BY THE CALIBRATED WRENCH METHOD OR TURN-OF-THE-NUT METHOD WITHOUT MATCH MARKING

SPECIAL INSPECTION SCHEDULE: STRUCTURAL STEEL WELDING

VERIFICATION AND INSPECTION TASK	FREQUENCY	
	CONTINUOUS	PERIODIC
PRIOR TO WELDING		
1. VERIFY WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	--	X
2. VERIFY WELDING PROCEDURE SPECIFICATIONS (WPS) ARE AVAILABLE	X	--
3. VERIFY MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	X	--
4. VERIFY MATERIAL (TYPE/GRADE)	--	X
5. WELDER IDENTIFICATION SYSTEM (NOTE A)	--	X
6. VERIFY FIT-UP GROOVE WELDS (INCLUDING JOINT GEOMETRY):		
A. NOT USED		
B. NOT USED		
C. NOT USED		
D. NOT USED		
E. NOT USED		
7. VERIFY FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY):		
A. JOINT PREPARATIONS	--	X
B. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	--	X
C. CLEANLINESS (CONDITION OF STEEL SURFACES)	--	X
D. TACKING (TACK WELD QUALITY AND LOCATION)	--	X
8. VERIFY CONFIGURATION AND FINISH OF ACCESS HOLES	--	X
9. VERIFY FIT-UP OF FILLET WELDS:		
A. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	--	X
B. CLEANLINESS (CONDITION OF STEEL SURFACES)	--	X
C. TACKING (TACK WELD QUALITY AND LOCATION)	--	X
DURING WELDING		
10. VERIFY CONTROL AND HANDLING OF WELDING CONSUMABLES:		
A. PACKAGING	--	X
B. EXPOSURE CONTROL	--	X
11. VERIFY NO WELDING OVER CRACKED TACK WELDS	--	X
12. VERIFY ENVIRONMENTAL CONDITIONS:		
A. WIND SPEED WITHIN LIMITS	--	X
B. PRECIPITATION AND TEMPERATURE	--	X
13. VERIFY WPS ARE FOLLOWED:		
A. SETTINGS ON WELDING EQUIPMENT	--	X
B. TRAVEL SPEED	--	X
C. SELECTED WELDING MATERIALS	--	X
D. SHIELDING GAS TYPE/FLOW RATE	--	X
E. PREHEAT APPLIED	--	X
F. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	--	X
G. PROPER POSITION (F, V, H, OH)	--	X
14. WELDING TECHNIQUES:		
A. INTERPASS AND FINAL CLEANING	--	X
B. EACH PASS WITHIN PROFILE LIMITATIONS	--	X
C. EACH PASS MEETS QUALITY REQUIREMENTS	--	X
15. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	--
AFTER WELDING		
16. VERIFY WELDS ARE CLEANED	--	X
17. VERIFY SIZE, LENGTH AND LOCATION OF WELDS	X	--
18. VERIFY WELDS MEET VISUAL ACCEPTANCE CRITERIA:		
A. CRACK PROHIBITION	X	--
B. WELD/BASE-METAL FUSION	X	--
C. CRATER CROSS SECTION	X	--
D. WELD PROFILES	X	--
E. WELD SIZE	X	--
F. UNDERCUT	X	--
G. POROSITY	X	--
19. VERIFY ARC STRIKES	X	--
20. VERIFY k-AREA (NOTE B)	X	--
21. VERIFY WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES (NOTE C)	X	--
22. VERIFY BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	X	--
23. VERIFY REPAIR ACTIVITIES	X	--
24. DOCUMENT THE ACCEPTANCE OR REJECTION OF A WELDED JOINT OR MEMBER	X	--
25. VERIFY NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR	--	X
NON-DESTRUCTIVE TESTING OF WELDS		
26. NOT USED		
27. NOT USED		
28. NOT USED		

NOTES:
(A) THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED, STAMPS, IF USED, SHALL BE THE LOW-STRESS TYP.
(B) WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE k-AREA, VISUALLY INSPECT THE WEB k-AREA FOR CRACKS WITHIN 3 IN. (75 MM) OF THE WELD.
(C) AFTER ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ARE WELDED, VISUALLY INSPECT THE WELD ACCESS HOLE FOR CRACKS.

SPECIAL INSPECTIONS

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ISSUED FOR
- [ ] Lease Outline Diagram
- [ ] Schematic Design
- [ ] Design Development
- [ ] Construction (95% Checkset)
- [x] Construction

REVISIONS

TAYLOR BATSON KIDWELL REGISTERED ENGINEER STATE OF TENNESSEE 110801 12/22/2023

PROJECT NUMBER:
23079

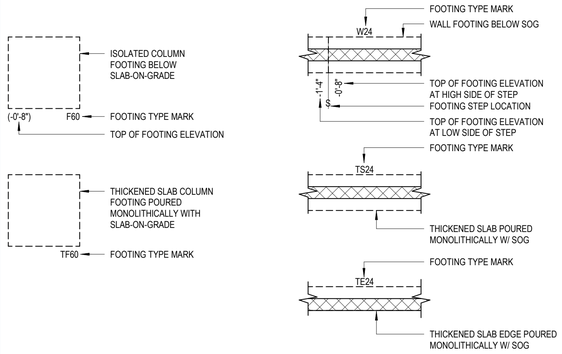
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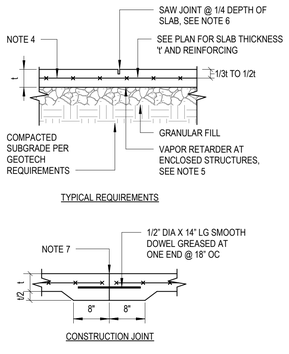
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STRUCTURAL SPECIAL INSPECTIONS

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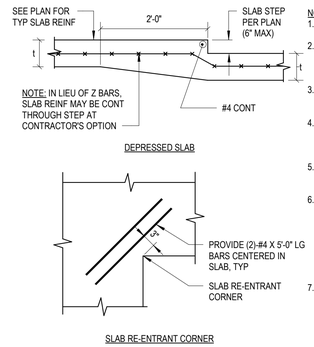
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1 FOOTING SYMBOLS & SCHEDULE MARKS
1" = 1'-0"



2 TYP SLAB-ON-GRADE CONSTRUCTION
3/4" = 1'-0"



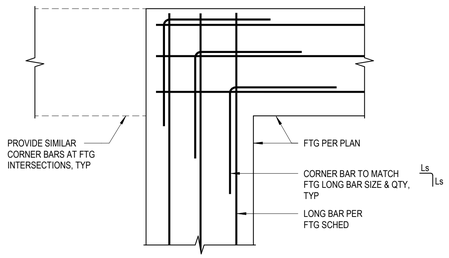
NOTES:
1. ALL SLAB-ON-GRADE CONSTRUCTION SHALL FOLLOW THE RECOMMENDATIONS OF ACI 302.1 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
2. PROVIDE CURING, FINISHING & SEALING OF SLABS PER ACI 302.1 GUIDELINES. CONCRETE SLABS SHALL CONFORM TO ACI 117-10 FOR FLATNESS AND LEVELNESS. PROVIDE CLASS 2 FLOOR FINISH WITH A FLATNESS/LEVELNESS OF 25/20 ACCORDING TO ASTM E1155, UNLESS SHOWN ON ARCHITECTURAL DRAWINGS OR OTHERWISE NOTED.
3. PROVIDE CURING USING A LIQUID MEMBRANE-FORMING CURING COMPOUND. PROVIDE A POLYETHYLENE (PLASTIC) FILM WHERE WEATHER/TEMPERATURE CONDITIONS REQUIRE ADDITIONAL PROTECTION FOR CURING.
4. WWF SHALL BE SUPPORTED AT A MAXIMUM SPACING OF 3'-0" OC IN ANY DIRECTION. ALL WELDED WIRE FABRIC SHALL LAP TWO FULL MESHES AND BE SECURELY WIRED AT EACH SIDE AND END. WELDED WIRE FABRIC SHALL BE FABRICATED FROM SHEETS. ROLLS ARE NOT ALLOWED.
5. A 10 MIL (MIN) VAPOR RETARDER SHALL BE PROVIDED BELOW SLAB-ON-GRADE AT ALL INTERIOR LOCATIONS. VAPOR BARRIER SHALL BE LAPPED AND TAPED AS REQUIRED BY MANUFACTURER. SEE ARCHITECTURAL FOR ADDITIONAL VAPOR BARRIER REQUIREMENTS.
6. PROVIDE CONTROL JOINTS THAT DIVIDE THE SLAB-ON-GRADE INTO RECTANGULAR AREAS OF 144 SF OR LESS WITH LENGTH TO WIDTH RATIOS OF 1.5 OR LESS. LOCATE CONTROL JOINTS UNDER PARTITIONS AND ON COLUMN LINES WHERE POSSIBLE. SUBMIT JOINT LOCATIONS TO OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO CONSTRUCTION. CONTROL JOINT LOCATIONS SHOWN ON PLAN ARE THE MINIMUM ALLOWABLE BASED ON ONE CONTINUOUS SLAB POUR. ADDITIONAL JOINTS SHALL BE ADDED BY THE CONTRACTOR AS REQUIRED BASED ON POUR SEQUENCE AND SLAB LAYOUT. CONTROL JOINT SPACING SHALL NOT EXCEED THE MAXIMUM SPACING NOTED ON PLAN.
7. ALL CONSTRUCTION JOINTS SHALL BE PLACED AT COLUMN LINES OR UNDER PARTITIONS AT DISCRETION OF CONTRACTOR. FOR SLAB POUR MAINTAIN CONSISTENT SPACING WITH CONTROL JOINTS.

NOTES:
1. NOTATIONS:
   - d_b: NOMINAL BAR DIAMETER (INCHES)
   - L_d: TENSION DEVELOMENT LENGTH (INCHES) FOR REINFORCEMENT SATISFYING THE FOLLOWING REQUIREMENTS:
     - SLABS AND WALLS: CLEAR SPACING > $2d_b$, AND CONCRETE CLEAR COVER > d_b
     - BEAMS AND COLUMNS: CLEAR SPACING > d_b, AND CONCRETE CLEAR COVER > d_b
   - L_c: DEVELOPMENT LENGTH OF BARS IN THICK CONCRETE = 1.3 X L_d (INCHES)
   - L_b: DEVELOPMENT LENGTH OF BARS OR DOWELS IN COMPRESSION = 19 X d_b (INCHES)
   - L_c: TIED COLUMN LAP SPLICE IN COMPRESSION = 30 X d_b (INCHES)
   - L_{sc}: SPIRAL COLUMN LAP SPLICE IN COMPRESSION = 22.5 X d_b (INCHES)
   - L_t: TYPICAL LAP SPLICE LENGTH = 1.3 X L_d (INCHES)
   - L_{db}: LAP SPLICE LENGTH OF HORIZONTAL BARS IN THICK CONCRETE = 1.69 X L_d (INCHES)
2. MULTIPLY VALUES IN THE TABLE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET THE REQUIREMENTS FOR L_d IN NOTE 1.
3. "HORIZONTAL BARS IN THICK CONCRETE" REFERS TO BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW. THIS INCLUDES BEAMS, SLABS, FOUNDATIONS, AND WALLS.
4. THE DEVELOPMENT AND SPLICE LENGTHS ARE BASED ON REINFORCEMENT STRENGTH F_y = 60 KSI.
5. #14 AND #18 BARS SHALL NOT BE LAP SPLICED. SEE "GENERAL NOTES"
6. MULTIPLY VALUES IN THE TABLE BY 1.3 FOR USE WITH LIGHTWEIGHT AGGREGATE CONCRETE.

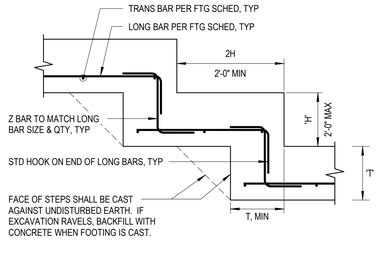
BAR SIZE	f'_c = 3,000 PSI L_d	L_t	L_s	L_{sb}
#3	17	22	22	28
#4	22	29	29	38
#5	28	36	36	47
#6	33	43	43	56
#7	48	63	63	81
#8	55	72	72	93
#9	62	81	81	105
#10	70	91	91	118
#11	78	101	101	131
#14	93	121	--	--
#18	124	161	--	--

BAR SIZE	f'_c = 4,000 PSI L_d	L_t	L_s	L_{sb}
#3	15	19	19	25
#4	19	25	25	33
#5	24	31	31	41
#6	29	37	37	49
#7	42	54	54	71
#8	48	62	62	81
#9	54	70	70	91
#10	61	79	79	102
#11	67	87	87	114
#14	81	105	--	--
#18	108	140	--	--

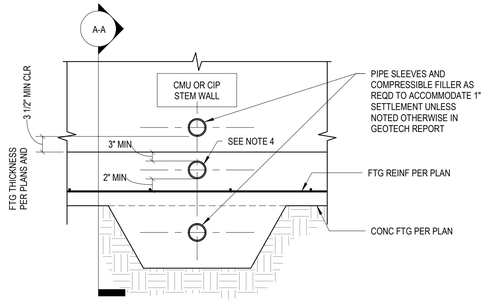
4 CONCRETE DEVELOPMENT LENGTH SCHEDULE
1" = 1'-0"

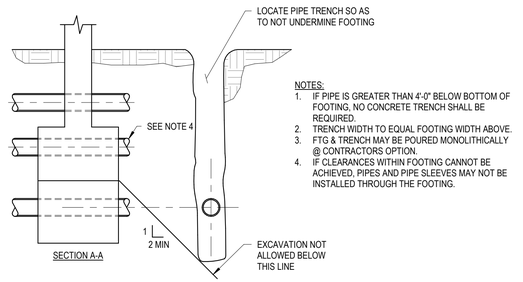


5 TYP FOOTING CORNER BARS
3/4" = 1'-0"



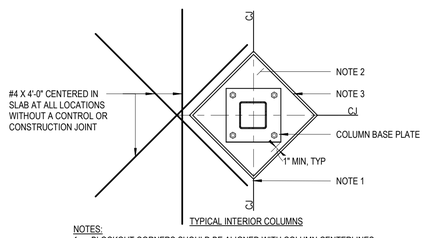
6 TYP FOOTING STEP (IF REQD)
3/4" = 1'-0"



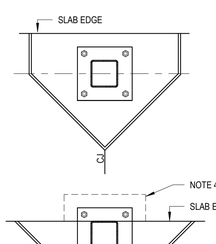


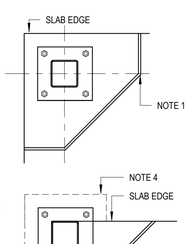
NOTES:
1. IF PIPE IS GREATER THAN 4'-0" BELOW BOTTOM OF FOOTING, NO CONCRETE TRENCH SHALL BE REQUIRED.
2. TRENCH WIDTH TO EQUAL FOOTING WIDTH ABOVE.
3. FTG & TRENCH MAY BE POURED MONOLITHICALLY @ CONTRACTORS OPTION.
4. IF CLEARANCES WITHIN FOOTING CANNOT BE ACHIEVED, PIPES AND PIPE SLEEVES MAY NOT BE INSTALLED THROUGH THE FOOTING.

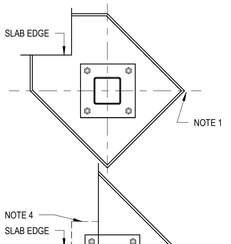
7 TYP PIPE AND TRENCH LOCATIONS AT FOOTINGS / WALLS (IF REQD)
3/4" = 1'-0"



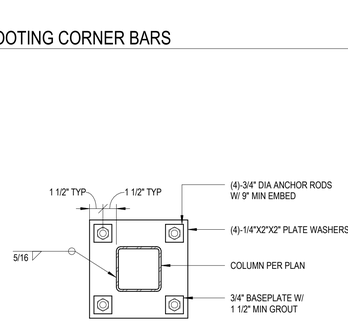
NOTES:
1. BLOCKOUT CORNERS SHOULD BE ALIGNED WITH COLUMN CENTERLINES.
2. INFILL COLUMN BLOCKOUTS W/ NONSHRINK GROUT, TYP.
3. PROVIDE 1/4" MIN ISOLATION JOINT MATERIAL BETWEEN NONSHRINK GROUT AND BLOCKOUT, TYP.
4. WHERE BASEPLATE EXTENDS OUTSIDE OF SLAB EDGE, ENCASE IN NONSHRINK GROUT WITH A MINIMUM COVER OF 3" IN ALL DIRECTIONS. HEIGHT OF COVER NOT TO EXCEED 8" ABOVE FOUNDATION. ALTERNATIVELY, PAINT BELOW GRADE STEEL WITH BITUMASTIC PAINT.
5. DETAILS ARE SIMILAR TO OTHER COLUMN PROFILES.



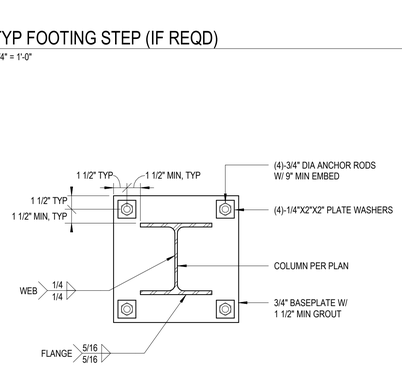




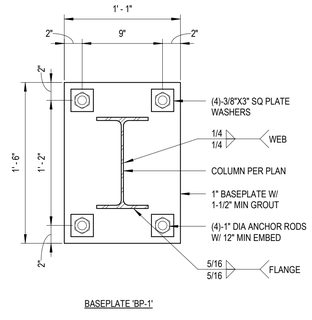
9 TYP HSS COLUMN BASEPLATE DETAIL
1 1/2" = 1'-0"



10 TYP WIDE FLANGE COLUMN BASEPLATE
1 1/2" = 1'-0"



11 TYP SLAB-ON-GRADE ISOLATION JOINTS
3/4" = 1'-0"



BASEPLATE 'BP-1'

13 MOMENT FRAME BASEPLATE DETAIL
1 1/2" = 1'-0"

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Nashville

ISSUED FOR
- [ ] Lease Outline Diagram
- [ ] Schematic Design
- [ ] Design Development
- [ ] Construction (95% Checkset)
- [x] Construction

REVISIONS



PROJECT NUMBER:
23079

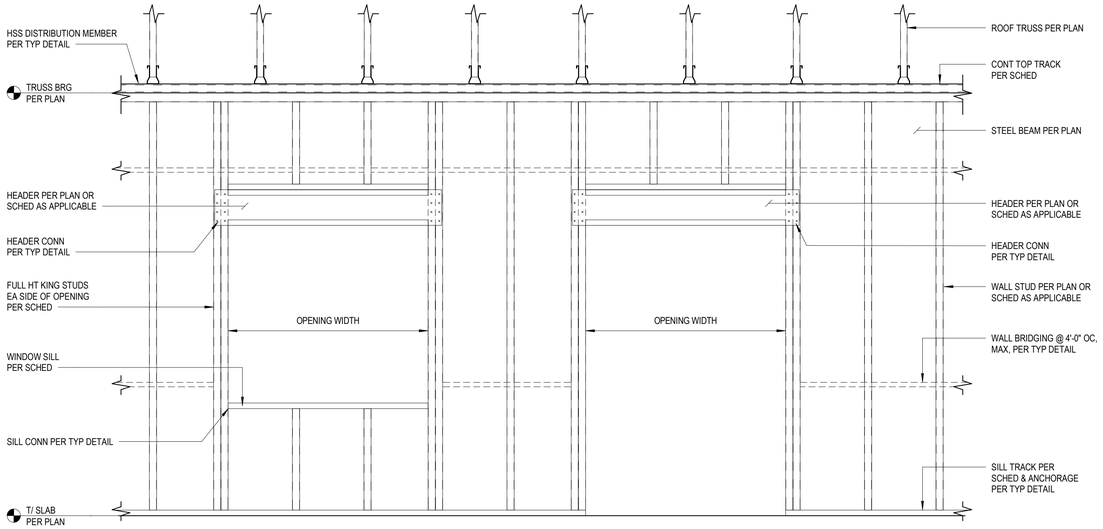
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DRAWING
TYPICAL DETAILS

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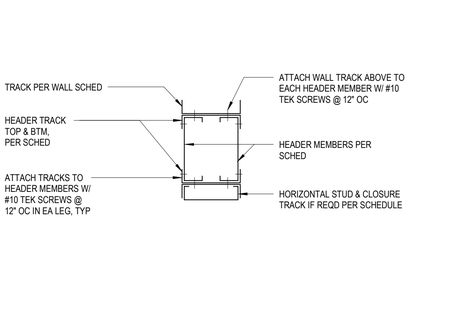
NOTES:
1. THIS DIAGRAM IS TO BE USED IN CONJUNCTION WITH ALL OTHER TYPICAL DETAILS.
2. WHERE THIS DETAIL IS IN CONFLICT WITH OTHER DETAILS, THE MORE STRINGENT REQT SHALL GOVERN.

CFS STUD WALL SCHEDULE	
TYPE	CONSTRUCTION
LG-6A	600S162-43 @ 16" OC

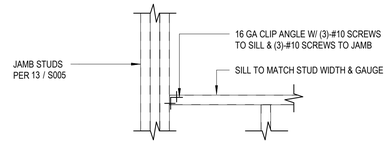
NOTES:
1. ALL FRAMING MEMBERS SHALL BE FORMED FROM STEEL WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 18 & 20 GA STEEL AND 50 KSI FOR 12, 14, AND 16 GA STEEL.
2. ALL EXTERIOR & BEARING STUD WALLS SHALL HAVE LATERAL BRACING INSTALLED AT A MAXIMUM OF 48" OC.
3. FASTEN STUDS TO BOTTOM & TOP TRACKS W/ (1)-#10 TEK SCREW EA SIDE, TYP.

CONNECTOR	SUBSTRATE	DESCRIPTION	PRODUCT
SCREWS	METAL TRACK	#10-16 X 5/8" PAN HEAD	BUILDEX "TEKS" COMPASS "DARTS" GRABBER SELF DRILLING
	STUD-TO-STUD	#10-16 X 5/8" HEX HEAD	BUILDEX "TEKS" COMPASS "DARTS" GRABBER SELF DRILLING
	METAL-TO-STEEL	#12-24 X 1-1/4" HEX HEAD, #5 TIP	BUILDEX "TEKS" HILTI KWIK-PRO
	WOOD FRAMING OR PLYWOOD	#14-20 X 2-3/4" PHILLIPS FLAT HEAD, #4 WINGS	BUILDEX "TEKS" HILTI KWIK-PRO
	CONCRETE OR GROUTED CMU	1/4" DIA X 1-3/4"	HILTI KWIK-CON II+
PDFS	CONCRETE OR GROUTED CMU @ EXT WALLS	0.145" DIA X 1-1/2"	HILTI X-ZF, HILTI X-DNI
		0.157" DIA X 1-1/2"	OR HILTI X-U
	CONCRETE @ INT WALLS	0.118" DIA X 3/4"	HILTI X-GN
	STRUCTURAL STEEL	0.145" DIA X 5/8"	HILTI X-EDNI
		0.157" DIA X 5/8"	OR HILTI X-U

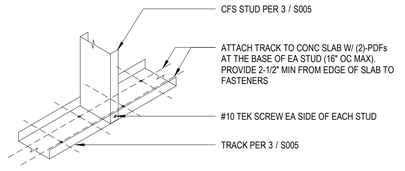
3 CFS WALL STUD SCHEDULE
3/8" = 1'-0"

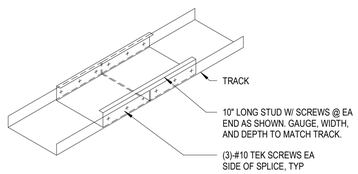


4 SCREW & PDF CHART AND DESIGNATIONS
3/4" = 1'-0"

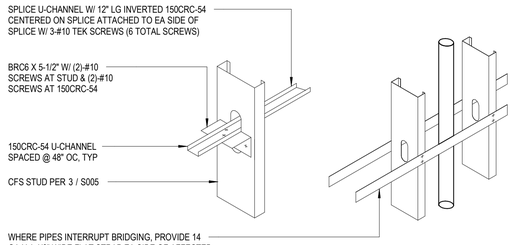


5 TYP BYPASS WALL STUD SPLICE
3/4" = 1'-0"



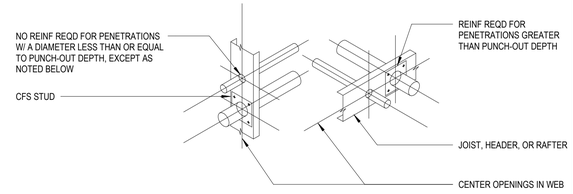


7 TYP JAMB CONNECTION
1" = 1'-0"



NOTES:
1. BRACING SHALL BE APPLIED AT ALL EXTERIOR WALL LOCATIONS.
2. PROVIDE SIMILAR DETAIL AT BRIDGING TERMINATIONS AT JAMB STUDS OR BUILT-UP POSTS.

8 TYP SILL TO JAMB ATTACHMENT
1" = 1'-0"

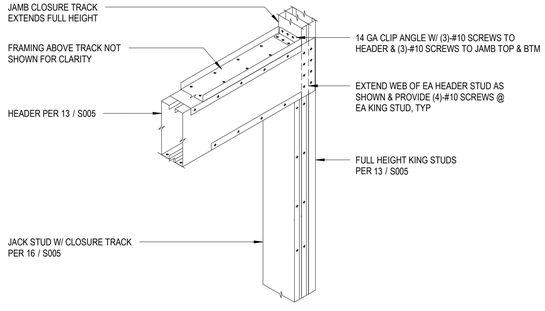


NOTES:
1. FLANGES SHALL NOT BE NOTCHED OR CUT.
2. CAPACITY VERIFICATION BY DESIGN IS REQUIRED FOR ANY OPENINGS LOCATED AT CONCENTRATED LOADS AND BEARING ENDS.
3. CONSULT THE MANUFACTURER FOR UNPUNCHED MEMBERS.

9 TYP BOTTOM TRACK ATTACHMENT
1" = 1'-0"

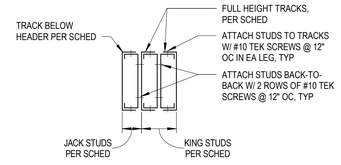
HEADER SCHEDULE						
MAX CLEAR ROUGH OPENING	FULL-HEIGHT KING (K) AND JACK (J) STUDS	HEADER MEMBERS	HEADER TRACK	HORIZ STUD	CLOSURE TRACK	SILL
<= 10'-0"	(3)-600S250-68 (K) (3)-600T125-68 (K) (2)-600S162-43 (J) (2)-600T125-43 (J)	(2)-1200S300-97	(2)-600T125-68	600S200-97	600T125-68	600T125-54
<= 8'-0"	(2)-600S250-68 (K) (2)-600T125-68 (K) (1)-600S162-43 (J) (1)-600T125-43 (J)	(2)-1200S250-68	(2)-600T125-68	600S200-68	600T125-68	600T125-43
<= 6'-0"	(2)-600S200-68 (K) (2)-600T125-68 (K) (1)-600S162-43 (J) (1)-600T125-43 (J)	(2)-800S200-68	(2)-600T125-68	600S200-68	600T125-68	600T125-43
<= 4'-0"	(2)-600S200-54 (K) (2)-600T125-54 (K) (1)-600S162-43 (J) (1)-600T125-43 (J)	(2)-600S162-54	(2)-600T125-54	--	--	600T125-43

10 TYP TRACK SPLICE DETAIL
1" = 1'-0"



11 TYP WALL BRIDGING DETAIL
1/2" = 1'-0"

12 TYP STUD WALL PENETRATION
3/4" = 1'-0"



13 TYP BEARING WALL HEADER SCHEDULE
3/4" = 1'-0"

14 TYP BEARING WALL HEADER
3/4" = 1'-0"

15 TYP HEADER CONSTRUCTION
1 1/2" = 1'-0"

16 TYP JAMB CONSTRUCTION
1 1/2" = 1'-0"

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- [ ] Lease Outline Diagram
- [ ] Schematic Design
- [ ] Design Development
- [ ] Construction (95% Checkset)
- [x] Construction

REVISIONS



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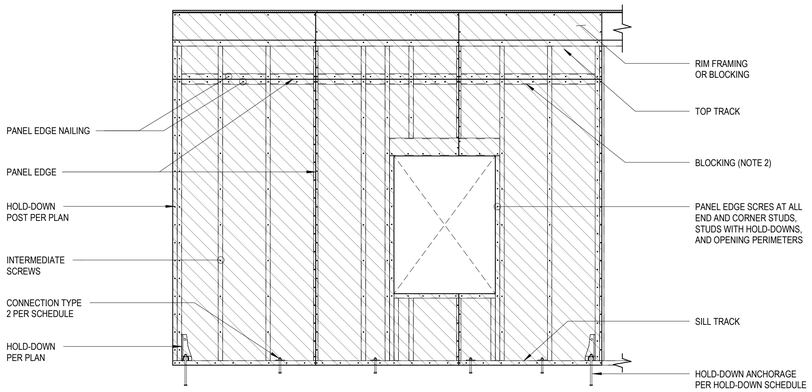
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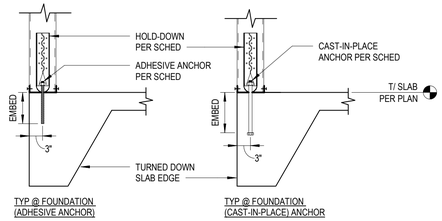
NOTES:
1. STAGGER SCREWS AT ABUTTING PANEL EDGES.
2. INSTALL BLOCKING AT PANEL EDGES NOT OCCURRING AT STUDS OR TRACKS.
3. PROVIDE SIMPSON BPS BEARING PLATES AT ALL ANCHOR BOLTS TO CONCRETE. PROVIDE BPS1/2-3 AT 3-5/8" WALLS AND BPS1/2-6 AT 6" WALLS. PROVIDE STANDARD CUT WASHER BETWEEN NUT AND BPS.
4. ANCHORS SHALL BE CAST-IN-PLACE OR ADHESIVE. LOCATE ANCHORS WITHIN 8" OF ENDS OF WALLS. INSTALL (2) ANCHORS MINIMUM PER SILL TRACK.
5. END POSTS & HOLD-DOWNS ARE REQUIRED AT EACH END OF EACH SHEAR WALL. END POSTS SHALL BE BACK TO BACK CFS STUDS FASTENED TOGETHER W/ #10 SCREWS AT 6' OC, STAGGERED.

SHEAR WALL SCHEDULE					CAPACITY (PLF)
SHEARWALL TYPE	SHEATHING	PANEL EDGE NAILING (NOTES 1 AND 2)	NAILING AT INTERMEDIATE FRAMING MEMBERS	SILL PLATE TO FOUNDATION (CONNECTION TYPE 2) (NOTES 3 AND 4)	43 MIL STUDS
SW6	7/16" SHEATHING (1) SIDE	#8 SCREWS @ 6" OC	#8 SCREWS @ 12" OC	1/2" DIA ANCHOR @ 32" OC (6" MIN EMBED)	330
SW4	7/16" SHEATHING (1) SIDE	#8 SCREWS @ 4" OC	#8 SCREWS @ 12" OC	1/2" DIA ANCHOR @ 24" OC (6" MIN EMBED)	494
SW66	7/16" SHEATHING BOTH SIDES	#8 SCREWS @ 6" OC	#8 SCREWS @ 12" OC	1/2" DIA ANCHOR @ 16" OC (6" MIN EMBED)	660

5 SHEAR WALL SCHEDULE
1/2" = 1'-0"

HOLD-DOWN AND ANCHORAGE SCHEDULE				
HOLD-DOWN	THREADED ROD/ ANCHOR DIAMETER (IN)	EDGE DISTANCE (IN)	ADHESIVE ANCHOR EMBED (IN)	CAST-IN-PLACE ANCHOR BOLT EMBED (IN)
S/DTT2Z	1/2	2 3/4	8	8
S/HDU4	5/8	2 3/4	8	8
S/HDU6	5/8	2 3/4	10	8
S/HDU9	7/8	2 3/4	10	8

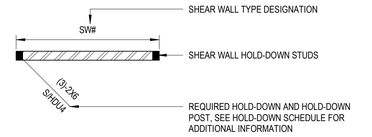
NOTES:
1. HOLD-DOWNS LISTED ARE PRODUCTS MANUFACTURED BY SIMPSON STRONG-TIE. HOLD-DOWN SUBSTITUTIONS SHALL BE SUBMITTED IN ACCORDANCE WITH THE SUBMITTALS SECTION OF THE GENERAL NOTES.
2. INSTALL HOLD-DOWNS PER MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS.
3. DTT1Z HOLD-DOWNS ARE NOT PERMITTED AT THE FOUNDATION LEVEL.
4. SEE CFS SHEAR WALL KEY FOR ADDITIONAL INFORMATION.



TYP @ FOUNDATION (ADHESIVE ANCHOR)

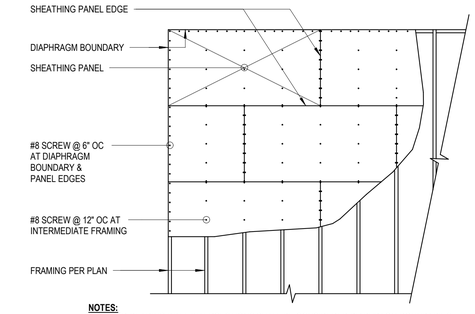
TYP @ FOUNDATION (CAST-IN-PLACE) ANCHOR

7 TYP HOLD-DOWN AND ANCHORAGE SCHEDULE
3/4" = 1'-0"



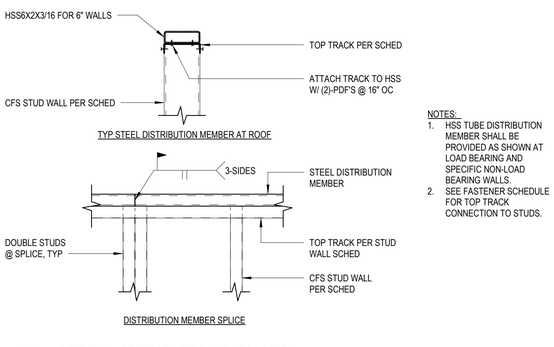
NOTES:
1. SEE PLAN FOR WALL EXTENTS. TYPICALLY, WALLS BEGIN/END AT BUILDING CORNERS, WALL INTERSECTIONS, AND/OR EDGES OF WALL OPENINGS.
2. CONSTRUCT WALL FRAMING PER THE TYPICAL LOAD-BEARING WOOD STUD WALL ELEVATION.
3. PROVIDE ADDITIONAL CONSTRUCTION COMPONENTS AS REQUIRED PER THE SHEAR WALL SCHEDULE.
4. HOLD-DOWN STUDS SHALL BE SCREWED TOGETHER PER TYPICAL BUILT-UP STUD DETAIL.
5. HOLD-DOWN STUDS ARE TO BE FULL HEIGHT. IF LOCATED NEXT TO A DOOR OR WINDOW OPENING, KING STUDS MAY BE COUNTED TOWARDS NUMBER OF HOLD-DOWN STUDS.

4 CFS SHEAR WALL KEY
1/4" = 1'-0"



NOTES:
1. LOAD-BEARING WALL INTERSECTIONS SHALL BE CONSIDERED DIAPHRAGM BOUNDARIES.
2. ROOF SHEATHING PANELS SHALL BE STAGGERED AS SHOWN WITH LONG DIRECTION OF SHEATHING PERPENDICULAR TO FRAMING.

8 TYP ROOF SHEATHING LAYOUT AND SCREWING DETAIL
3/4" = 1'-0"

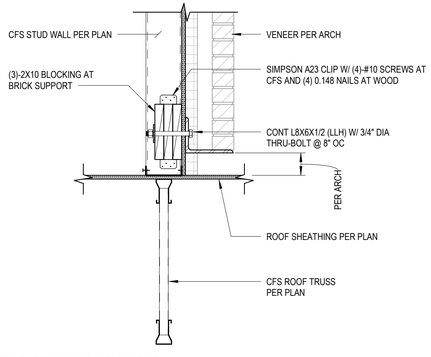


TYP STEEL DISTRIBUTION MEMBER AT ROOF

DISTRIBUTION MEMBER SPLICE

NOTES:
1. HSS TUBE DISTRIBUTION MEMBER SHALL BE PROVIDED AS SHOWN AT LOAD BEARING AND SPECIFIC NON-LOAD BEARING WALLS.
2. SEE FASTENER SCHEDULE FOR TOP TRACK CONNECTION TO STUDS.

13 STEEL DISTRIBUTION MEMBER
1" = 1'-0"



14 TYP BRICK SUPPORT
1" = 1'-0"

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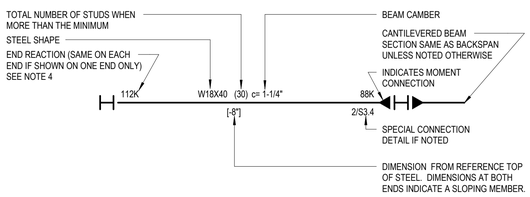
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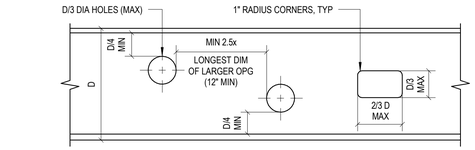
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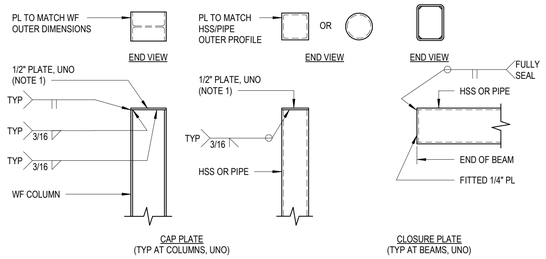
NOTES:
1. NO REACTION AT EITHER END INDICATES MINIMUM CONNECTION FOR BEAM DEPTH. SEE "GENERAL NOTES" FOR STEEL CONNECTIONS.
2. SPACE STUDS PER "TYPICAL SHEAR STUD PLACEMENT" DETAIL.
3. WHERE NO BEAM SIZE IS CALLED OUT ADJACENT TO FLOOR OR ROOF OPENING, REFER TO TYPICAL STEEL DETAILS FOR SIZES AND CONNECTIONS.
4. END REACTION IS FACTORED (LRFD) OR SERVICE (ASD) LEVEL. REFER TO GENERAL NOTES FOR APPLICABLE DESIGN METHOD.

1 STEEL BEAM CALLOUT KEY
3/4" = 1'-0"



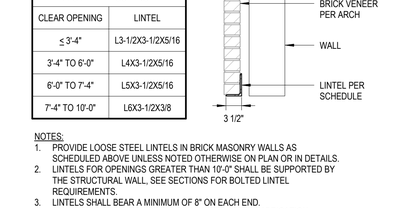
NOTES:
1. CONTRACTORS SHALL COORDINATE SIZES AND LOCATIONS OF ALL BEAM PENETRATIONS WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS. ALL PENETRATIONS LARGER THAN 2" DIA SHALL BE SHOWN ON SHOP DRAWINGS OR SKETCHES AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. FIELD CUTTING IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
2. OPENINGS MAY OCCUR IN MIDDLE HALF OF BEAM LENGTH ONLY, WITHOUT APPROVAL.
3. NO CUTTING MAY OCCUR IN TOP OR BOTTOM QUATER OF BEAM DEPTH.
4. ADJACENT OPENINGS MAY BE SPACED NO CLOSER THAN THE LESSOER OF 12" OR 2.5X LARGER OPENING SIZE, EDGE TO EDGE.
5. MAXIMUM SIZES OF OPENINGS SHALL BE D/3 DIA OF D/3 X 2D/3 AS SHOWN.
6. NO OPENINGS SHALL OCCUR WITHIN 12" OF AN ADJACENT BEAM CONNECTION.
7. REQUIRED OPENINGS NOT MEETING ABOVE CRITERIA SHALL BE SUBMITTED TO ENGINEER FOR REINFORCING DESIGN.

2 TYP STEEL BEAM PENETRATION DETAIL
3/4" = 1'-0"



NOTES:
1. WHERE SLOPING BEAMS FRAME INTO TOP OF COLUMNS, SLOPE COLUMN CAP PLATES TO MATCH TOP OF BEAM, UNO.
2. ALL WELDS FINISHED FLUSH, UNO.
3. FLUSH FINISH REQUIREMENTS MAY BE WAIVED, SUBJECT TO ARCH AND ENGINEER WRITTEN APPROVAL.

3 TYP COLUMN/BEAM CAP AND CLOSURE PLATES
3/4" = 1'-0"



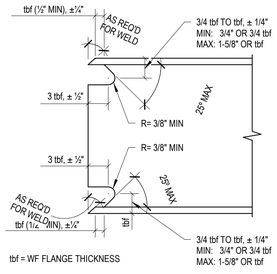
5 TYP STIFFENER PLATE DETAIL
1 1/2" = 1'-0"

NOTE:
1. THIS DETAIL APPLIES AT ALL TOP OF COLUMN CONNECTIONS WITH A BEAM FRAMING INTO COLUMN FROM ONE SIDE ONLY

6 TYP BEAM-COLUMN CONNECTION
1" = 1'-0"

7 TYP STEEL BEAM OVER STEEL COLUMN
1" = 1'-0"

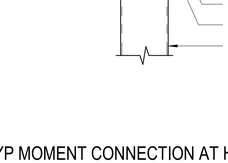
8 TYP STEEL COLUMN BEARING ON STEEL BEAM
1" = 1'-0"



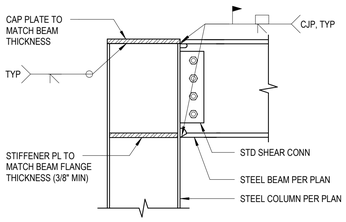
tbf = WF FLANGE THICKNESS

NOTES:
1. WELD ACCESS HOLES SHALL BE FREE OF NOTCHES AND SHARP REENTRANT CORNERS.
2. FOR HEAVY SECTIONS, PREDRILLED OR SAWED SURFACES OF THE ACCESS HOLE OR COPE NEED NOT BE GROUND TO BRIGHT METAL AND INSPECTED BY EITHER MAGNETIC PARTICLE OR DYE PENETRANT METHODS.
3. THIS DETAIL APPLIES TO ROLLED OR BUILT-UP SHAPES ASSEMBLED PRIOR TO CUTTING THE ACCESS HOLE.

9 TYP WELD ACCESS HOLE DETAIL
3/4" = 1'-0"



10 TYP MOMENT CONNECTION AT HSS COLUMN
1" = 1'-0"



11 TYP MOMENT CONNECTION AT WIDE FLANGE COLUMN
1" = 1'-0"

BRICK LINTEL SCHEDULE	
CLEAR OPENING	LINTEL
≤ 3'-4"	L3-1/2X3-1/2X5/16
3'-4" TO 6'-0"	L4X3-1/2X5/16
6'-0" TO 7'-4"	L5X3-1/2X5/16
7'-4" TO 10'-0"	L6X3-1/2X3/8

NOTES:
1. PROVIDE LOOSE STEEL LINTELS IN BRICK MASONRY WALLS AS SCHEDULED ABOVE UNLESS NOTED OTHERWISE ON PLAN OR IN DETAILS.
2. LINTELS FOR OPENINGS GREATER THAN 10'-0" SHALL BE SUPPORTED BY THE STRUCTURAL WALL, SEE SECTIONS FOR BOLTED LINTEL REQUIREMENTS.
3. LINTELS SHALL BEAR A MINIMUM OF 8" ON EACH END.
4. ALL LINTELS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
5. SCHEDULE IS APPLICABLE ONLY FOR BRICK LAID IN RUNNING BOND.

13 TYP LOOSE BRICK LINTELS
3/4" = 1'-0"

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- ☐ Schematic Design
- ☐ Design Development
- ☐ Construction (95% Checkset)
- ■ Construction

REVISIONS

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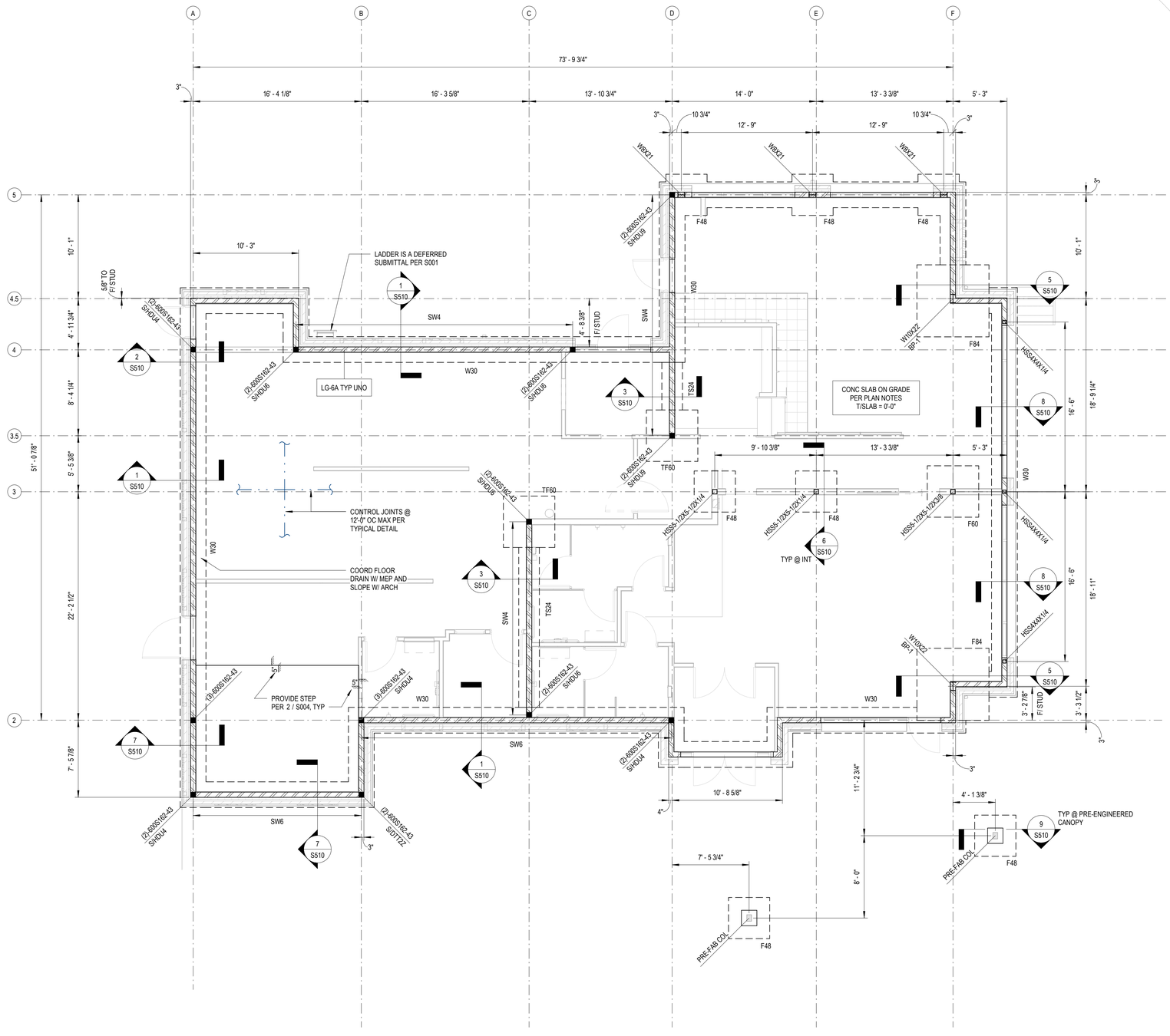
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CFS STUD WALL SCHEDULE

TYPE	CONSTRUCTION
LG-6A	600S162-43 @ 16" OC

COLUMN FOOTING SCHEDULE

MARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT
F48	4'-0"	4'-0"	1'-0"	(5)-#5 EW
F60	5'-0"	5'-0"	1'-0"	(6)-#5 EW
F84	7'-0"	7'-0"	1'-6"	(8)-#5 EW TOP & BTM
TF60	5'-0"	5'-0"	1'-6"	(6)-#5 EW

WALL FOOTING SCHEDULE

MARK	WIDTH	DEPTH	REINFORCEMENT
TS24	2'-0"	1'-0"	(3)-#5 CONT W/ #3 TRANS @ 4'-0" OC
W30	2'-6"	1'-0"	(3)-#5 CONT W/ #3 TRANS @ 4'-0" OC

FOUNDATION PLAN NOTES:

1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0' - 0", UNO. TOP OF SLAB ON GRADE IS AT THE REFERENCE ELEVATION, UNO.
2. T/ INTERIOR FOOTING ELEVATION = -0' - 8", TYP, UNO
3. T/ EXTERIOR FOOTING ELEVATION = -1' - 4", TYP, UNO
4. SLAB ON GRADE IS 4" THICK AND REINFORCED WITH WWF 6X6-W2.1XW2.1. SLAB ON GRADE SHALL BE PLACED OVER A VAPOR BARRIER AND 4" (MIN) COMPACTED GRANULAR FILL. SEE TYPICAL SLAB ON GRADE DETAILS FOR MORE INFORMATION.
5. 'F##' INDICATES COLUMN OR ISOLATED SPREAD FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
6. 'W##' INDICATES WALL OR CONTINUOUS FOOTING MARK. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
7. 'TS##' & 'TF##' INDICATE THICKENED SLAB AREAS TO BE POURED MONOLITHICALLY WITH SLAB ON GRADE. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
8. 'TE##' INDICATES TURNED-DOWN SLAB EDGE TO BE POURED MONOLITHICALLY WITH SLAB ON GRADE. SEE SCHEDULE FOR SIZE AND REINFORCEMENT.
9. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
10. FOR SIDEWALKS, PAVING, AND SITE DETAILS AT THE BUILDING EXTERIOR, SEE ARCHITECTURAL AND CIVIL DRAWINGS.

FOUNDATION PLAN

3/16" = 1'-0"

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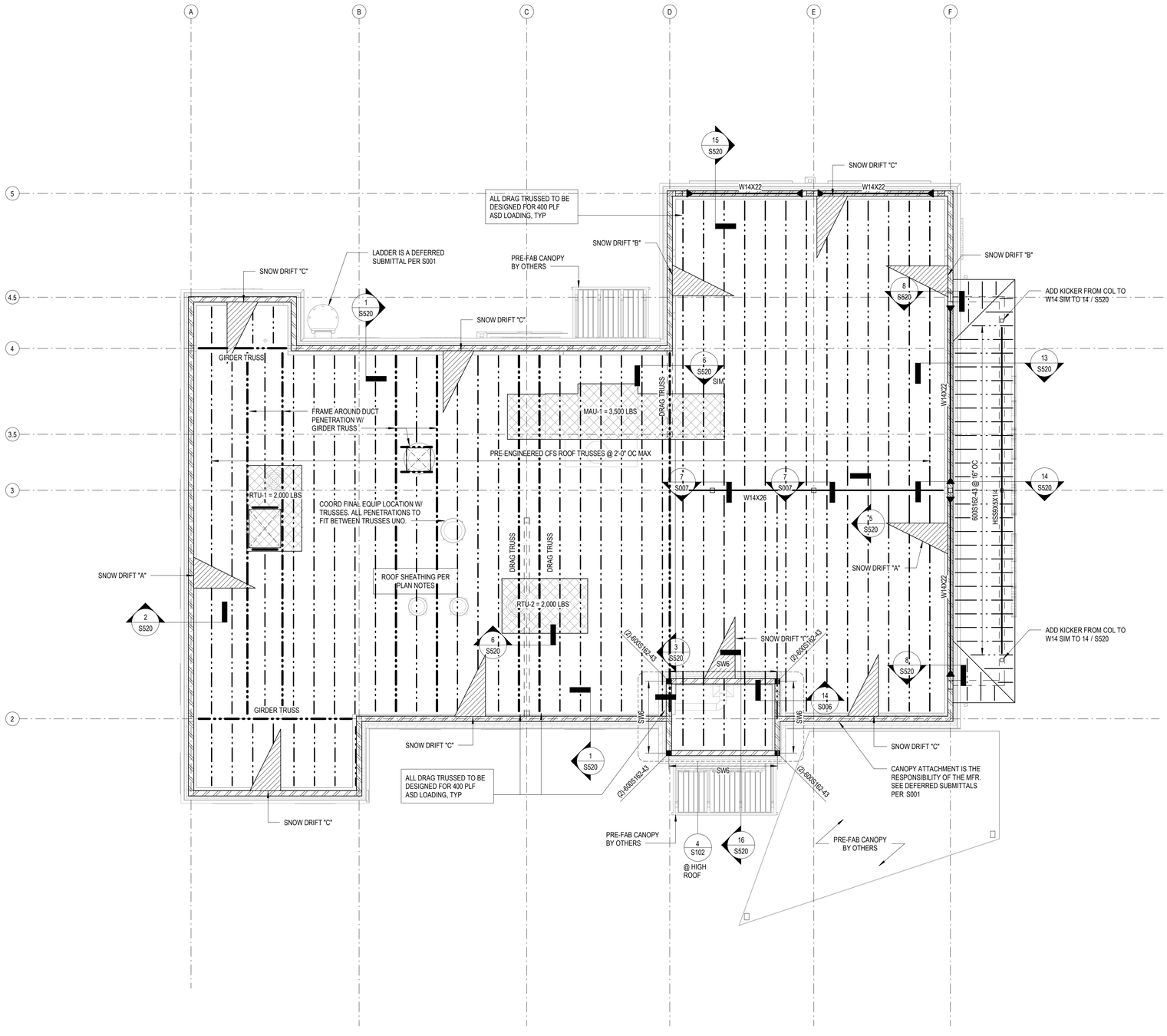
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FOUNDATION PLAN

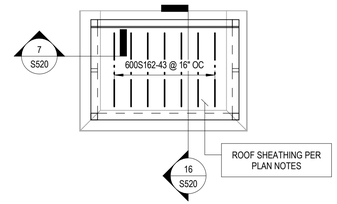
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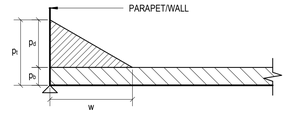
ROOF FRAMING PLAN

3/16" = 1'-0"



4 ROOF FRAMING PLAN_HIGH ROOF

3/16" = 1'-0"



SNOW DRIFT LOAD TABLE				
TYPE MARK	BALANCED LOAD p_b (PSF)	DRIFT LOAD p_d (PSF)	TOTAL LOAD p_t (PSF)	WIDTH w (FT)
A	6.9	27.7	34.6	6
B	6.9	14.8	21.7	4
C	6.9	22.5	29.4	6

NOTES:
1. DRIFT LOAD APPLIES TO ALL JOISTS & BEAMS ADJACENT TO PARAPET.
2. LOADS ARE UNFACTORED SNOW LOAD TO BE USED FOR DEFERRED SUBMITTAL DESIGNS.

ROOF FRAMING PLAN NOTES:
1. ELEVATIONS ARE BASED ON A REFERENCE FLOOR ELEVATION OF 0' - 0", UNO. TOP OF SLAB ON GRADE BELOW IS AT THE REFERENCE ELEVATION, UNO.
2. TRUSS BEARING ELEVATION AT ROOF LEVEL = 15' - 0", TYP UNO.
3. WOOD ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING (T&G) UNO. SEE GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
4. ROOF FRAMING SHALL BE PRE-ENGINEERED CFS ROOF TRUSSES AT 2' - 0" OC, UNO. ALL TRUSSES SHALL BE ORIENTED IN THE DIRECTION SHOWN. TRUSS LAYOUT SHALL NOT BE SIGNIFICANTLY ALTERED FROM THE CONSTRUCTION DOCUMENTS. IF THERE IS A CONFLICT, CONTACT STRUCTURAL ENGINEER PRIOR TO ISSUING SHOP DRAWINGS.
5. FOR ELEVATIONS, WALL SECTIONS, AND DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.

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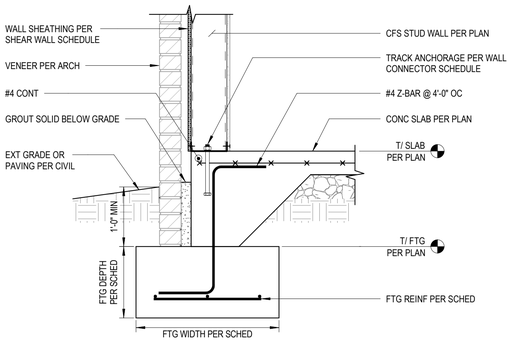
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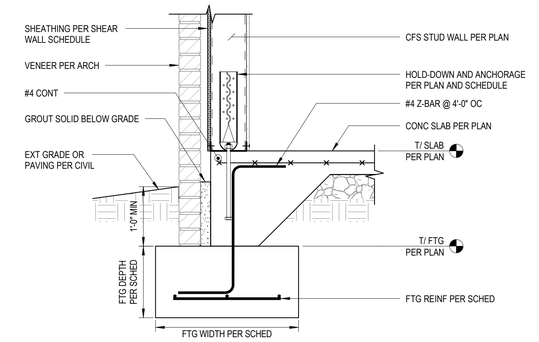
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ROOF FRAMING PLAN

S102

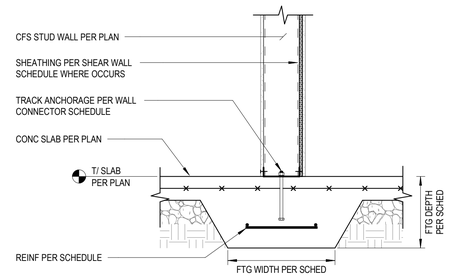
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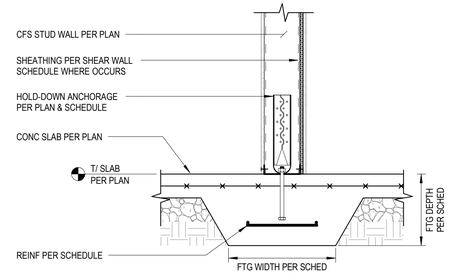
1 TYP EXTERIOR WALL FDN SECTION
1" = 1'-0"



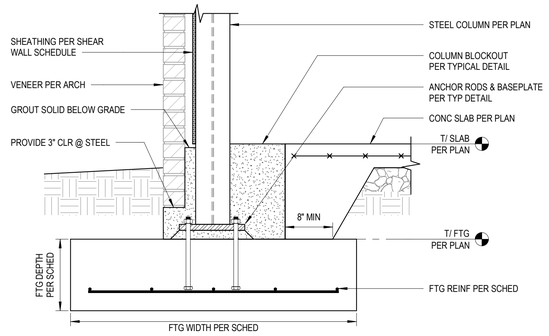
2 TYP EXTERIOR WALL FDN SECTION AT HOLD-DOWN
1" = 1'-0"



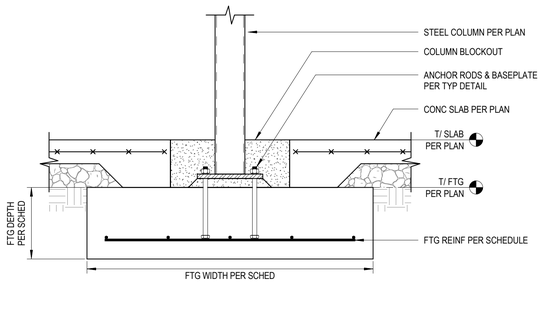
3 TYP INTERIOR WALL FDN SECTION
1" = 1'-0"



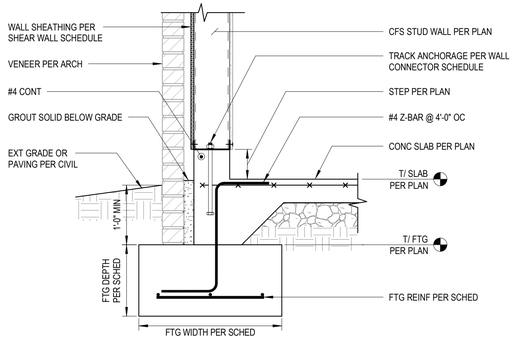
4 TYP INTERIOR WALL FDN SECTION AT HOLD-DOWN
1" = 1'-0"



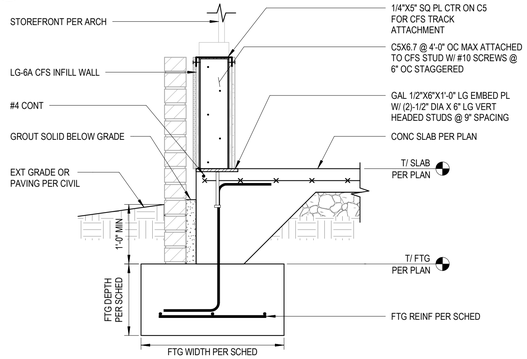
5 FOUNDATION SECTION AT STEEL COLUMN IN EXTERIOR WALL
1" = 1'-0"



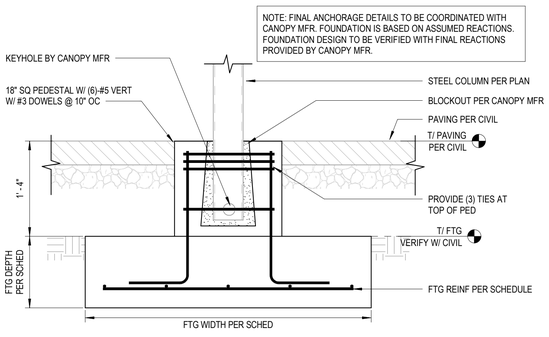
6 FOUNDATION SECTION AT INTERIOR STEEL COLUMN
1" = 1'-0"



7 TYP EXTERIOR WALL FDN SECTION
1" = 1'-0"



8 SECTION
1" = 1'-0"



9 FOUNDATION SECTION AT EXTERIOR CANOPY COLUMN
1" = 1'-0"

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CSA Project: 2023-585
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CSAstructures.com
Nashville

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ☐ Construction (95% Checkset)
- ■ Construction

REVISIONS

TAYLOR BATSON KIDWELL REGISTERED ENGINEER STATE OF TENNESSEE No. 119891 12/22/2023

PROJECT NUMBER:
23079

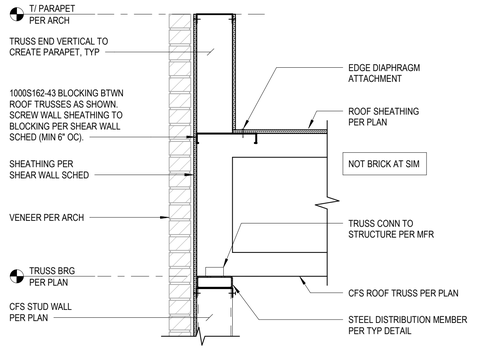
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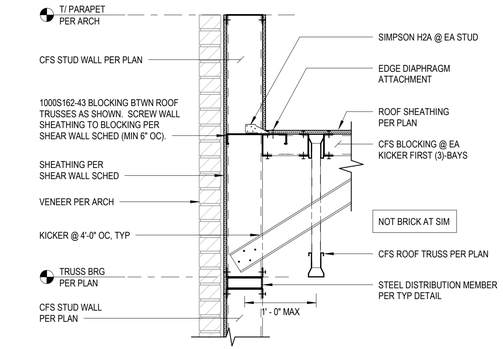
DRAWING
SECTIONS & DETAILS

S510

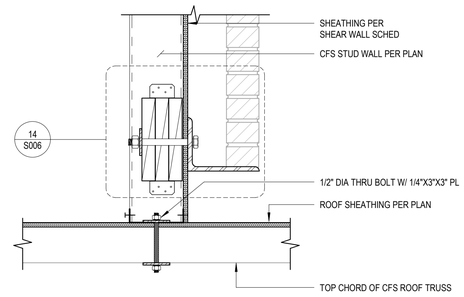
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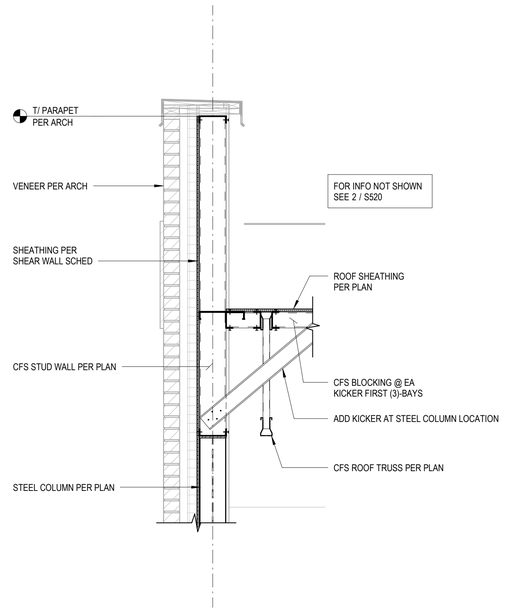
1 TYP TRUSS BEARING @ EXTERIOR WALL
1" = 1'-0"



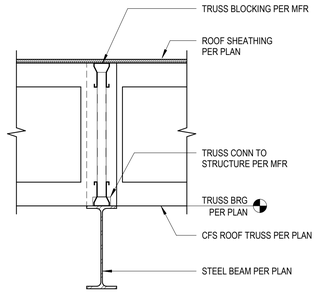
2 TYP LT GAGE PARAPET W/ KICKER
1" = 1'-0"



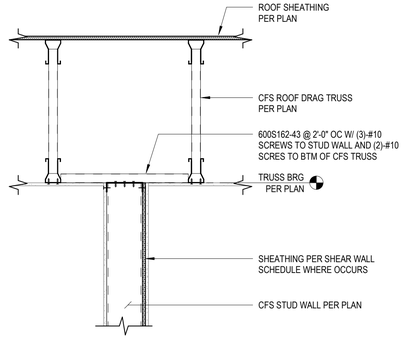
3 SECTION
1 1/2" = 1'-0"



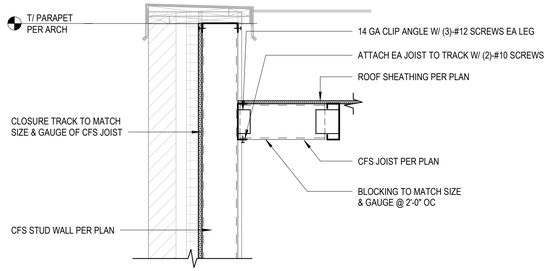
8 SECTION
3/4" = 1'-0"



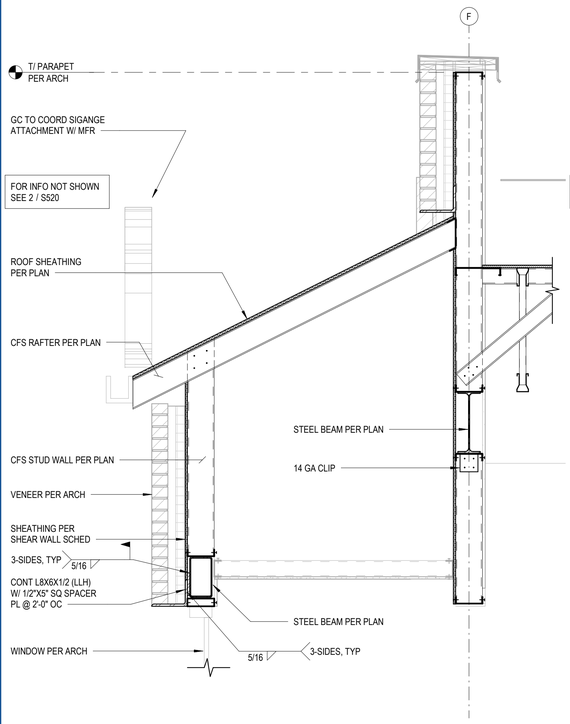
5 SECTION
1" = 1'-0"



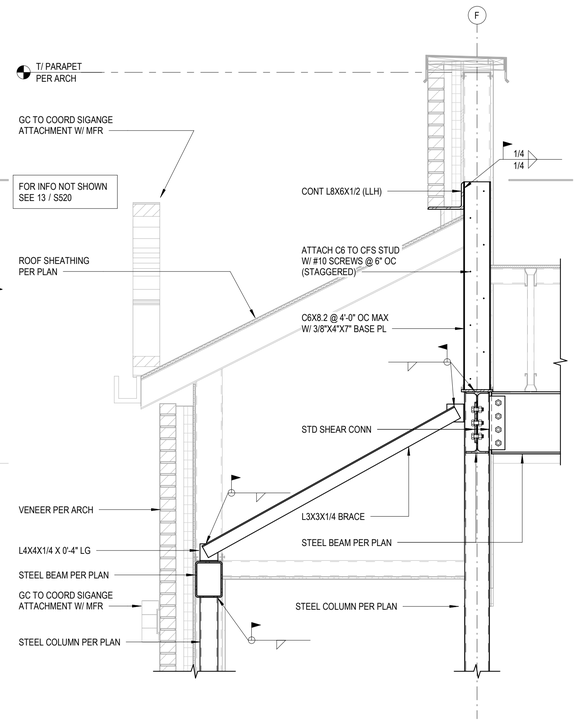
6 SECTION
1" = 1'-0"



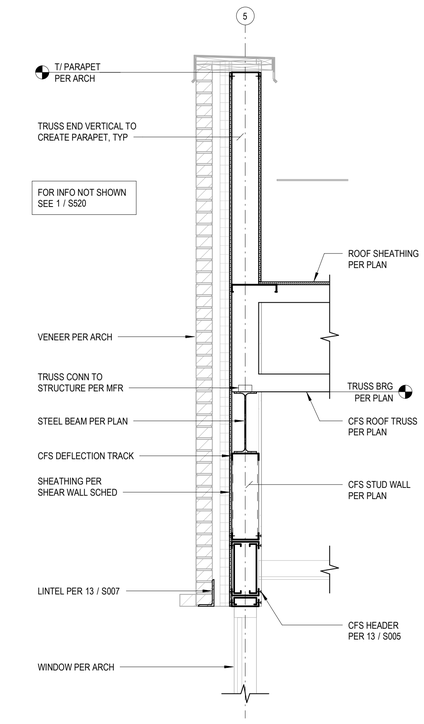
7 SECTION
1" = 1'-0"



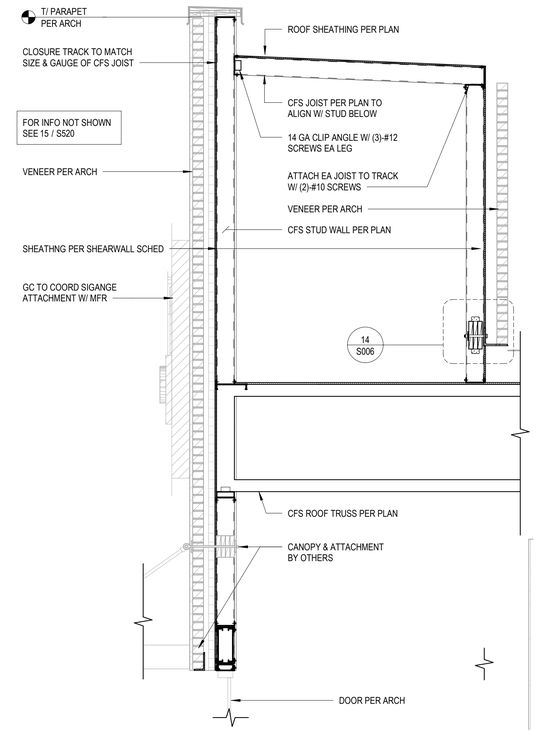
13 SECTION
3/4" = 1'-0"



14 SECTION
3/4" = 1'-0"



15 SECTION
3/4" = 1'-0"



16 SECTION
1/2" = 1'-0"

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ISSUED FOR

- [ ] Lease Outline Diagram
- [ ] Schematic Design
- [ ] Design Development
- [ ] Construction (95% Checkset)
- [x] Construction

REVISIONS

TAYLOR BATSON KIDWELL REGISTERED ENGINEER 110601 STATE OF TENNESSEE 12/22/2023

PROJECT NUMBER:
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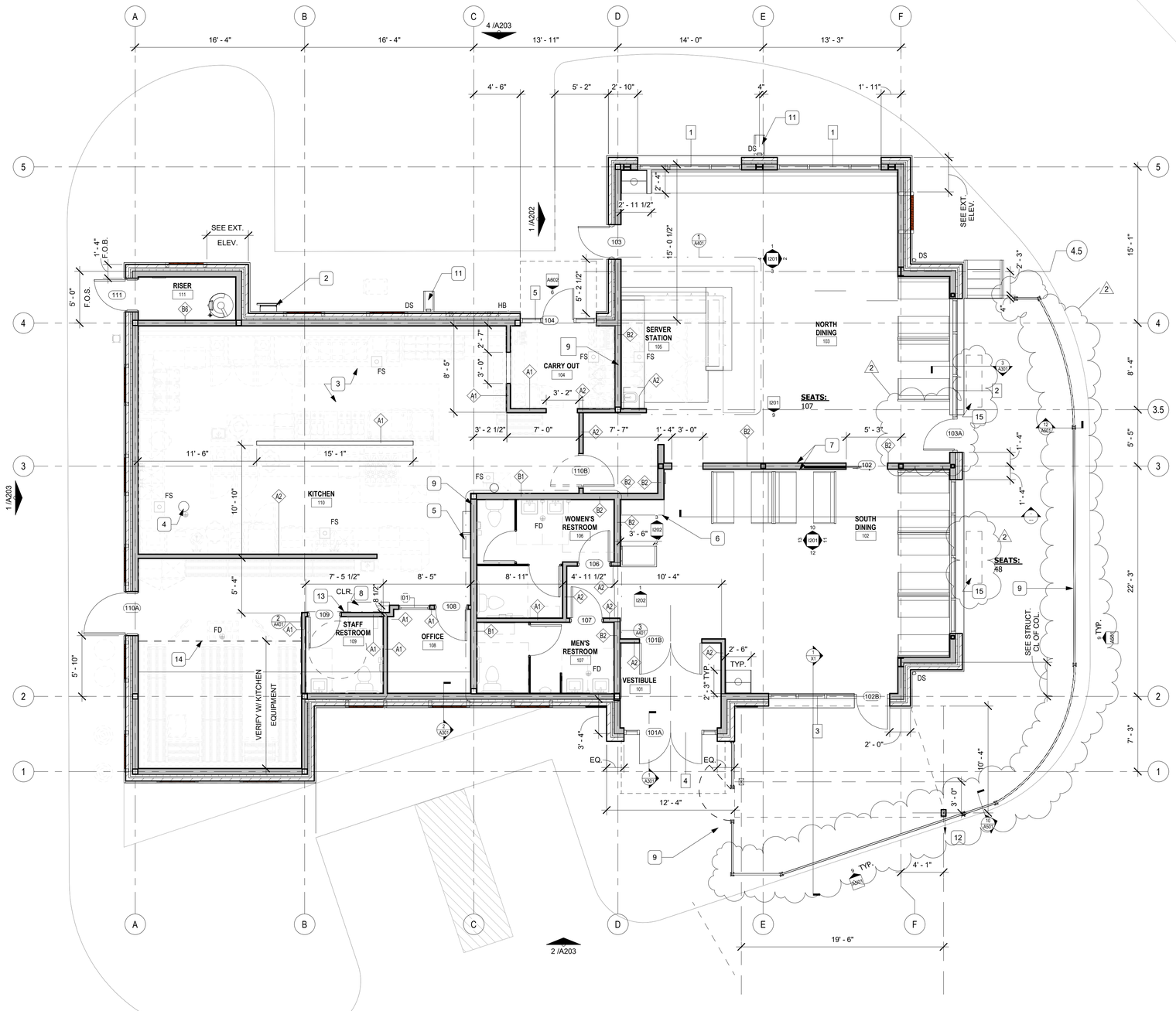
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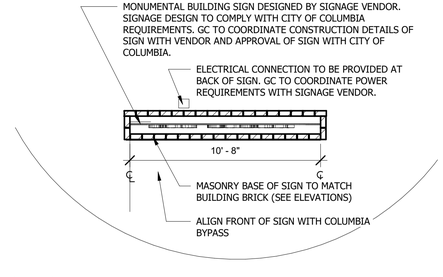
DRAWING
SECTIONS & DETAILS

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1 FLOOR PLAN
3/16" = 1'-0"



2 MONUMENTAL BUILDING SIGN
1/4" = 1'-0"

GENERAL PLAN NOTES

A. MAINTAIN A MIN. OF 18" CLEAR ON THE LATCH PULL SIDE AND 12" CLEAR ONTHE LATCH PUSH SIDE AND 4" DIMENSION ON HINGE SIDE OF DOORS (U.N.O)
B. REFER TO KITCHEN EQUIPMENT VENDOR DRAWINGS FOR LOCATING EQUIPMENT FOR CLEARANCE DIMENSIONS.
C. DIMENSIONS FOR FENESTRATIONS CAN BE ADJUSTED UP TO 4" TO ACCOMMODATE MASONRY COURSING. COORDINATE WITH ARCHITECT IF DISCREPANCIES OCCUR.
D. REFERENCE ENLARGED ELEVATIONS FOR ADDITIONAL DIMENSIONS.
E. PROVIDE THICKENED WALL AND CORRESPONDING SUPPORT AND BLOCKING AS REQUIRED FOR PLUMBING, ELECTRICAL, FIRE EXTINGUISHERS, WALL MOUNTED ITEMS, CABINETS, AND EQUIPMENT PRIOR TO BIDDING. THE OWNER SHALL INCUR NO ADDITIONAL CHARGES IF THIS IS NOT COORDINATED OR ACCOUNTED FOR.
F. DOOR FRAMES TO BE CAULKED TO FLOOR AT NON-CARPET LOCATIONS.
G. PROVIDE CONTINUOUS FLAME RETARDENT WOOD BLOCKING AND ANCHORAGE AS REQUIRED FOR EQUIPMENT. REFER TO OWNER'S KITCHEN VENDOR DRAWINGS FOR SPECIFIC REQUIREMENTS. PROVIDE FURROUTS, THICENED WALLS, AND/OR CHASES AS REQUIRED TO ACCOMMODATE PIPES, VALVES, PANELS, AND OTHER SYSTEM ELEMENTS.
H. PROVIDE ACCESS PANELS IN GYPSUM BOARD CONSTRUCTION AS REQUIRED TO ACCESS CONCEALED EQUIPMENT, SYSTEMS, AND SPACES. PAINT ACCESS PANELS TO MATCH ADJACENT SPACES.
I. SEE EXTERIOR ELEVATIONS AND ROOF PLANS FOR ADDITIONAL DIMENSIONS PROVIDED.
J. NOTE: CONSTUCTION DOCUMENTS PROVIDED ARE DESIGNED TO FOOD SERVICE DRAWINGS PROVIDED IN THIS SET (FOR REFERENCE ONLY). COORDINATE OWNER PURCHASED KITCHEN EQUIPMENT WITH CONSTRUCTION DOCUMENTS PRIOR TO ROUGH-IN & INSTALLATION.

PLAN KEYNOTES

1. PAPER TOWEL DISPENSER, SEE INTERIORS
2. ROOF LADDER. PROVIDE PANEL WITH LOCK & HASP.
3. REFER TO KITCHEN DRAWINGS FOR LAYOUT
4. FLOOR DRAIN LOCATION, SEE MEP DRAWINGS
5. PROPOSED ELECTRICAL PANELS LOCATION, SEE ELECTRICAL DRAWINGS
6. MERCH FEATURE WALL, SEE INTERIORS
7. TV FEATURE WALL, SEE INTERIORS
8. STAFF LOCKERS, GC TO PROVIDE PRODUCT OPTIONS FOR OWNER APPROVAL.
9. DECORATIVE METAL RAILING. DELEGATED DESIGN BY A LICENSED TN ENGINEER. PRODUCT INSTALLED BY GC. SEE SPECS.
10. PROVIDE SOUND BATTS BETWEEN KITCHEN AND DINING ROOM.
11. PRECAST CONCRETE SPLASH BLOCK
12. ARROW INDICATES WATER SPILL DIRECTION OF INTEGRAL DRAIN IN PRE-FABRICATED CANOPY COLUMNS.
13. HOOD REMOTE PULL STATION. SEE ELECTRICAL.
14. DASHED LINE INDICATES DEPRESSED SLAB FOR COOLER & FREEZER. COORDINATE & VERIFY EXTENTS REQUIRED FOR OWNER PROVIDED EQUIPMENT PRIOR TO ROUGH-IN & POURING SLAB.
15. 1'-6" x 5'-0" RAISED PLANTERS.

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WILLIAM M. PARKER REGISTERED ARCHITECT STATE OF TENNESSEE No. 107418

ISSUED FOR
- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS
2 ADD #02 06/07/24

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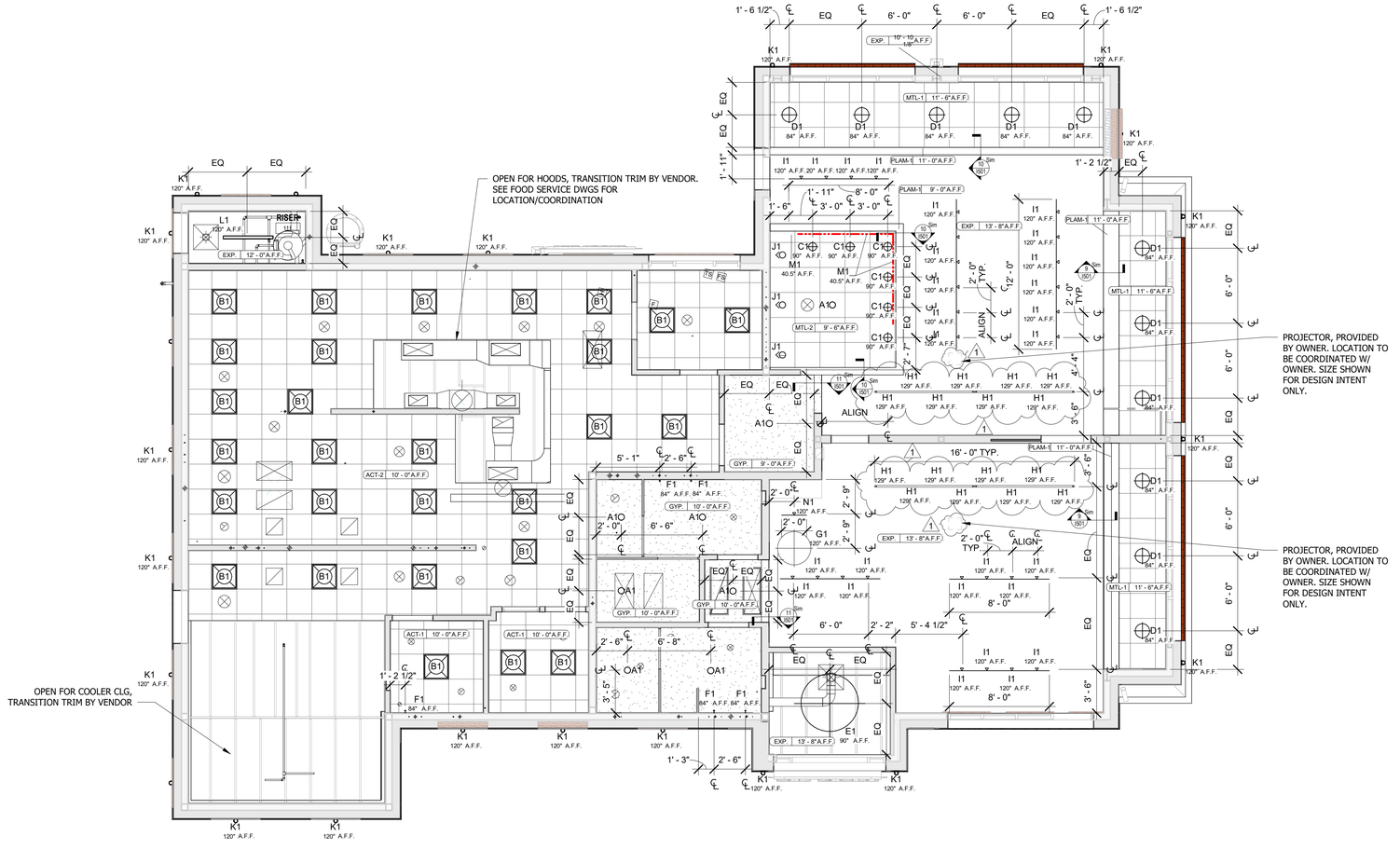
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RL, JW, KM, WP, SG

DATE:
01.24.24

DRAWING
FLOOR PLAN

A101

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Page 104 of 256 • Lot 0001 - Tradewind Dr



1 RCP
3/16" = 1'-0"

RCP GENERAL NOTES

	EXIT SIGN
	PENDANT
	RECESSED CAN
	WALL WASHER CAN LIGHT
	SURFACE MOUNT LIGHT
	SCONCE
	LINEAR PENDANT LED FIXTURE
	LED TAPE LIGHT
	RESTROOM FAN / LIGHT COMBO
	LARGE LED PENDANT
	TRACK LIGHT
	RECESSED SQUARE CAN LIGHT
	RECESSED 2'X4' LED FIXTURE
	RETURN AIR GRILLE
	SUPPLY DIFFUSER
	LINEAR DIFFUSER
	SERVICE &FIRESTAIR LIGHT FIXT.
	CEILING FAN
	PENDANT WALL WASHER
GYP X' - X"	CEILING HEIGHT

RCP GENERAL NOTES

1. CEILING ELEMENTS (LIGHTING FIXTURES, MECHANICAL DIFFUSERS, SPRINKLER HEADS, ETC. ARE SHOWN FOR LAYOUT AND DESIGN INTENT ONLY. REFER TO ENGINEERING DRAWINGS FOR ADDITIONAL INFORMATION.
2. ALL CEILING ELEMENTS SHALL BE CENTERED IN BETWEEN WALLS UNLESS NOTED OTHERWISE.
3. ALL ABOVE-CEILING SYSTEMS SHALL BE DESIGNED TO ACCOMMODATE CEILING HEIGHTS DOCUMENTED AND CEILING FIXTURES SPECIFIED. CEILING DROPS WILL NOT BE CONSIDERED TO ACCOMMODATE REROUTING OF SYSTEMS.
4. VERIFY THAT ACCESS PANELS FO TYPE SPECIFIED ARE INSTALLED IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, PLUMBING, OR ELECTRICAL ITEMS MAY BE REQUIRED. ACCESS PANELS SHALL BE THE FIRE RATED TYPE EQUAL TO THE RATING OF THE WALL OR CEILING IN WHICH THEY OCCUR. COORDINATE THE LOCATIONS AND SIZES WITH THE ARCHITECT BEFORE INSTALLATION.
5. ALL MEASUREMENTS DIMENSIONED "AFF" (ABOVE THE FINISH FLOOR) ARE DIMENSIONED FROM THE BOTTOM OF THE FIXTURE.

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WILLIAM M. PARKER — REGISTERED ARCHITECT — No. 107418 — STATE OF TENNESSEE — 01/24/2024

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REVISIONS
1 ADD #01 01/24/24

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KM

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01.24.24

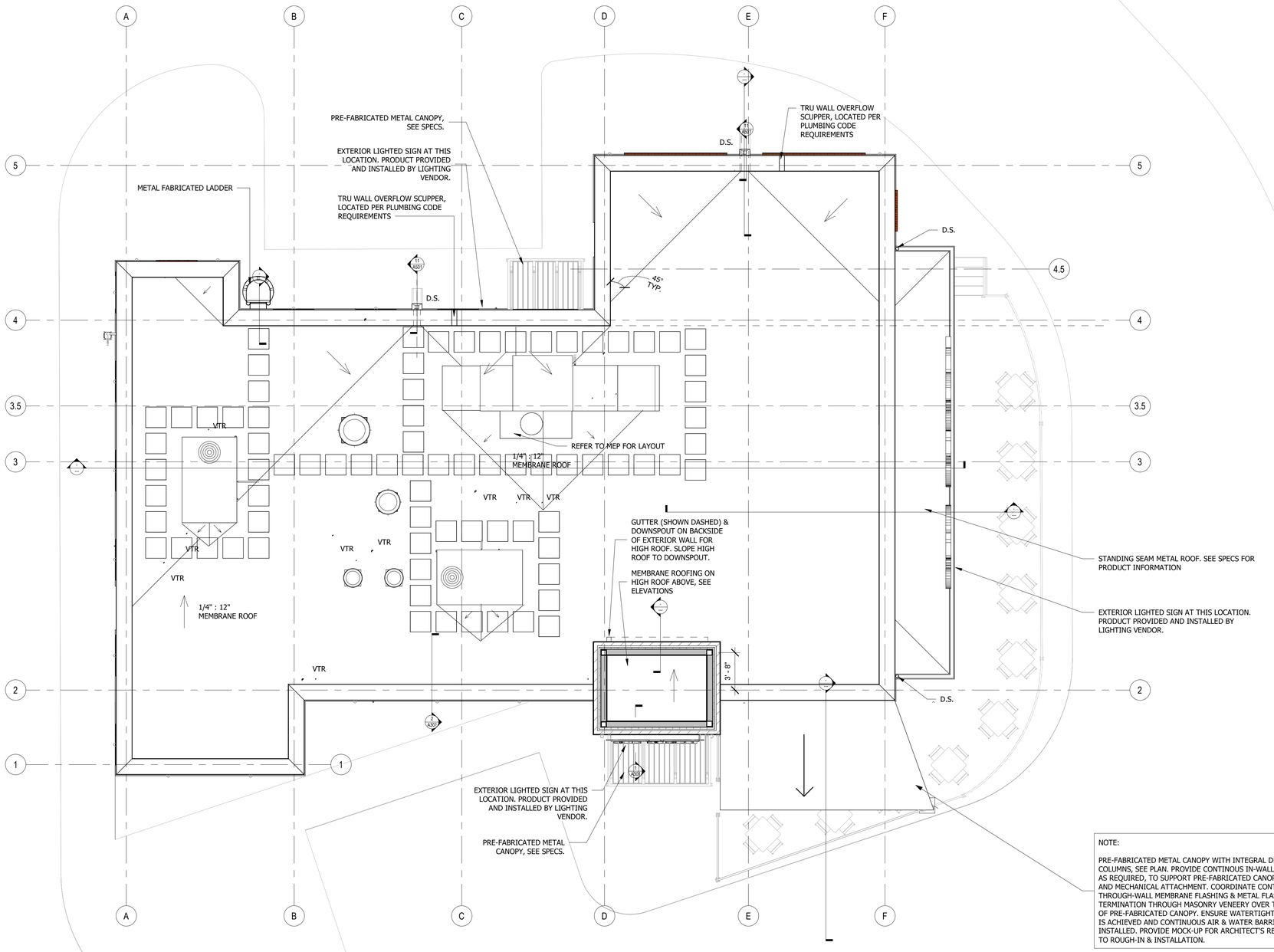
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RCP

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LEGEND:

DS	DOWNSPOUT
VTR	VENT THRU ROOF



NOTE:

PRE-FABRICATED METAL CANOPY WITH INTEGRAL DRAINS IN COLUMNS, SEE PLAN. PROVIDE CONTINOUS IN-WALL SUPPORTS, AS REQUIRED, TO SUPPORT PRE-FABRICATED CANOPY LOADS AND MECHANICAL ATTACHMENT. COORDINATE CONTINOUS THROUGH-WALL MEMBRANE FLASHING & METAL FLASHING TERMINATION THROUGH MASONRY VENEERY OVER TOP PROFILE OF PRE-FABRICATED CANOPY. ENSURE WATERTIGHT CONDITION IS ACHIEVED AND CONTINUOUS AIR & WATER BARRIER IS INSTALLED. PROVIDE MOCK-UP FOR ARCHITECT'S REVIEW PRIOR TO ROUGH-IN & INSTALLATION.

1 ROOF PLAN
3/16" = 1'-0"

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REVISIONS

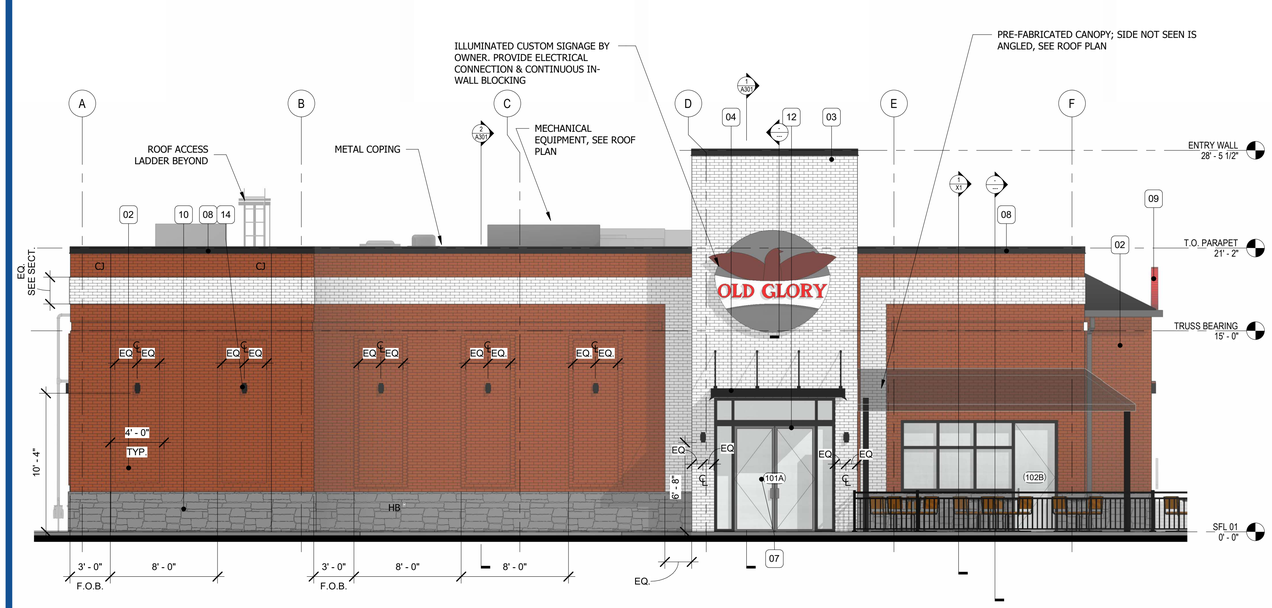
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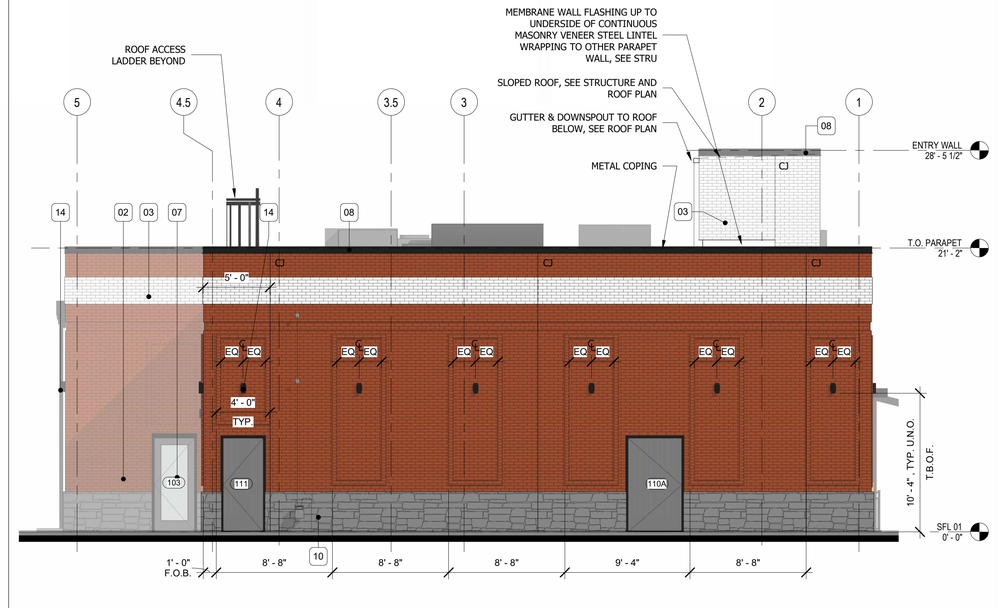
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ROOF PLAN

A120



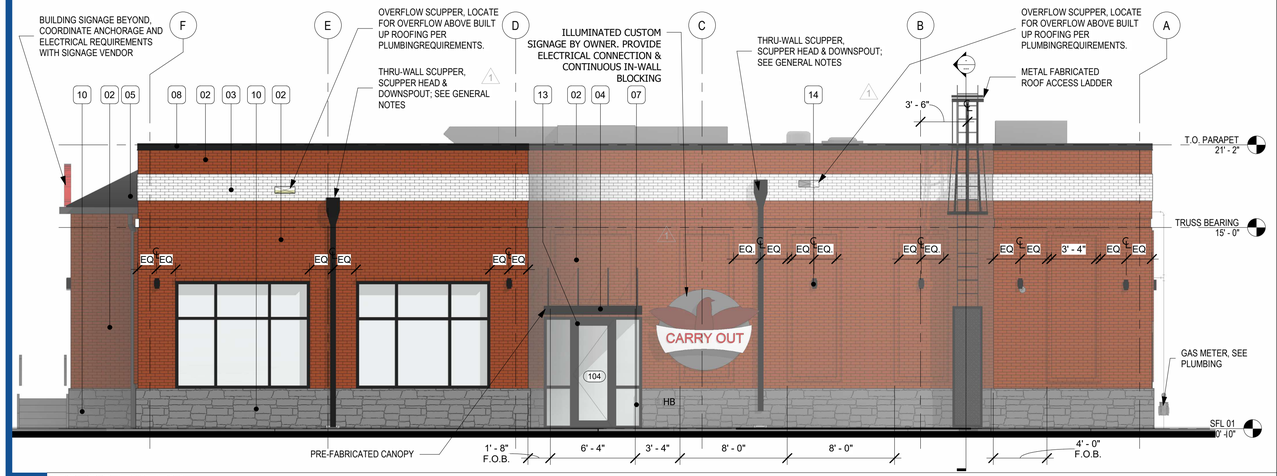
4 ENTRY SIDE

3/16" = 1'-0"



2 BACK ELEVATION

3/16" = 1'-0"



3 TO GO ENTRY

3/16" = 1'-0"



1 EXTERIOR ELEVATION - FACADE ELEVATION

3/16" = 1'-0"

GENERAL NOTES:
1. DESIGN INTENT IS FOR TOP AND BOTTOM OF SCUPPER BOXES TO ALIGN ON ELEVATION. NOTE DUE TO VARYING ROOF INSULATION THICKNESS HEIGHT, BOTTOM OF THRU-WALL SCUPPER VARIES.
2. SEE WALL SECTIONS LOCATING INSETS AND CORBELS IN MASONRY VENEER.
3. VERIFY LOCATION OF EXTERIOR MPE PENETRATIONS ON ELEVATIONS PRIOR TO ROUGH-IN & INSTALLATION. NOT ALL PENETRATIONS ARE SHOWN ON ELEVATIONS.

LEGEND

HB HOSEBIB

EXTERIOR ELEVATION - FACADE ELEVATION GLAZING % CALCULATION

TOTAL AREA OF FACADE:	1,100 SQUARE FEET
SUM OF AREA OF FACADE UNDER ROOF BEARING HEIGHT:	800 SQUARE FEET
AREA OF MASONRY VENEER (%):	407 SQUARE FEET (50%)
AREA OF TILE STONE BASE (%):	143 SQUARE FEET (17%)
AREA OF ALUMINUM STOREFRONT (%):	250 SQUARE FEET (33%)

EXTERIOR FINISH SCHEDULE

MARK	MATERIAL	STYLE/COLOR	MANUFACTURER	REP. CONTACT	NOTES
01	GYPSUM WALL BOARD	WHITE	USG OR EQUIVALENT		
02	BRICK VENEER - FIELD	SPEKTRA WIRECUT, FULL-RANGE	PINE HALL BRICK	MODULAR SIZE BRICK. CAMERON PIERPONT - CPIERPONT@LEEBP.COM 615.244.4497	
03	BRICK VENEER - WHITE	WIRECUT, EXECUTIVE WHITE	BELDEN BRICK	MODULAR SIZE BRICK. CAMERON PIERPONT - CPIERPONT@LEEBP.COM 615.244.4497	ALTERNATE PRICING OPTION: EXECUTIVE WHITE MODULAR WIRECUT BY TAYLOR CLAYPRODUCTS CAMERON PIERPONT - CPIERPONT@LEEBP.COM 615.244.4497
04	PRE-FINISHED BLACK METAL	BLACK	MAPES INDUSTRIES INC.		PRICE FOR THE FOLLOWING COLOR OPTIONS: INTERSTATE BLUE, STATE BLUE, AWARD BLUE, MATTE BLACK, DARK BRONZE
05	STANDING SEAM METAL ROOFING SYSTEM	BLACK			SEE SPECIFICATIONS
06	DARK BRONZE EXTERIOR				SEE ELECTRICAL; EXTERIOR LIGHT
07	GLASS1				SEE SPECS
08	BLACK ALUMINUM	BLACK	MAPES INDUSTRIES INC.		STANDARD FINISHES
09	PAINT - RED		SHERWIN WILLIAMS		SEE SPECS
10	TILE STONE BASE	STACKSTONE ANTIQUE GREY	MOUNTAIN STONE	CAMERON PIERPONT - CPIERPONT@LEEBP.COM 615.244.4497	SEE SPECS
11	PAINT - BROWN		SHERWIN WILLIAMS		SEE SPECS
12	PAINT - GREY		SHERWIN WILLIAMS		SEE SPECS
13	BLACK ALUMINUM STOREFRONT		SEE SPECIFICATIONS		STANDARD FINISHES
14	BLACK EXTERIOR LIGHT FIXTURE		SEE SPECIFICATIONS		SEE ELECTRICAL; EXTERIOR LIGHT

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- ☐ 90% Construction Docs
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REVISIONS
1 ADD #01 01/24/24
2 ADD #02 06/07/24

PROJECT NUMBER: 23079

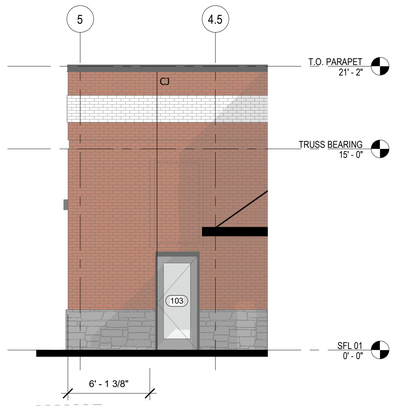
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DATE: 01.24.24

DRAWING EXTERIOR ELEVATIONS

A201

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Page 107 of 256 • Lot 0001 - Tradewind Dr



1 EXTERIOR ELEVATION - SIDE DOOR

3/16" = 1'-0"

EXTERIOR FINISH SCHEDULE

MARK	MATERIAL	STYLE/COLOR	MANUFACTURER	REP. CONTACT	NOTES
01	GYPSUM WALL BOARD	WHITE	USG OR EQUIVALENT		
02	BRICK VENEER - FIELD	SPEKTRA WIRECUT, FULL-RANGE	PINE HALL BRICK	MODULAR SIZE BRICK. CAMERON PIERPONT - CPIERPONT@LEEBP.COM 615.244.4497	
03	BRICK VENEER - WHITE	WIRECUT, EXECUTIVE WHITE	BELDEN BRICK	MODULAR SIZE BRICK. CAMERON PIERPONT - CPIERPONT@LEEBP.COM 615.244.4497	ALTERNATE PRICING OPTION: EXECUTIVE WHITE MODULAR WIRECUT BY TAYLOR CLAYPRODUCTS CAMERON PIERPONT - CPIERPONT@LEEBP.COM 615.244.4497
04	PRE-FINISHED BLACK METAL	BLACK	MAPES INDUSTRIES INC.		PRICE FOR THE FOLLOWING COLOR OPTIONS: INTERSTATE BLUE, STATE BLUE, AWARD BLUE, MATTE BLACK, DARK BRONZE
05	STANDING SEAM METAL ROOFING SYSTEM	BLACK			SEE SPECIFICATIONS
06	DARK BRONZE EXTERIOR				SEE ELECTRICAL; EXTERIOR LIGHT
07	GLASS1				SEE SPECS
08	BLACK ALUMINUM	BLACK	MAPES INDUSTRIES INC.		STANDARD FINISHES
09	PAINT - RED		SHERWIN WILLIAMS		SEE SPECS
10	TILE STONE BASE	STACKSTONE ANTIQUE GREY	MOUNTAIN STONE	CAMERON PIERPONT - CPIERPONT@LEEBP.COM 615.244.4497	SEE SPECS
11	PAINT - BROWN		SHERWIN WILLIAMS		SEE SPECS
12	PAINT - GREY		SHERWIN WILLIAMS		SEE SPECS
13	BLACK ALUMINUM STOREFRONT		SEE SPECIFICATIONS		STANDARD FINISHES
14	BLACK EXTERIOR LIGHT FIXTURE		SEE SPECIFICATIONS		SEE ELECTRICAL; EXTERIOR LIGHT

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OLD GLORY RESTAURANT

TRADEWINDS DR.
PARCEL 33.35
COLUMBIA, TN

WILLIAM M. PARKER
REGISTERED ARCHITECT
STATE OF TENNESSEE
No. 107418
01/24/2024

ISSUED FOR
- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS
1 ADD #01 01/24/24

PROJECT NUMBER:
23079

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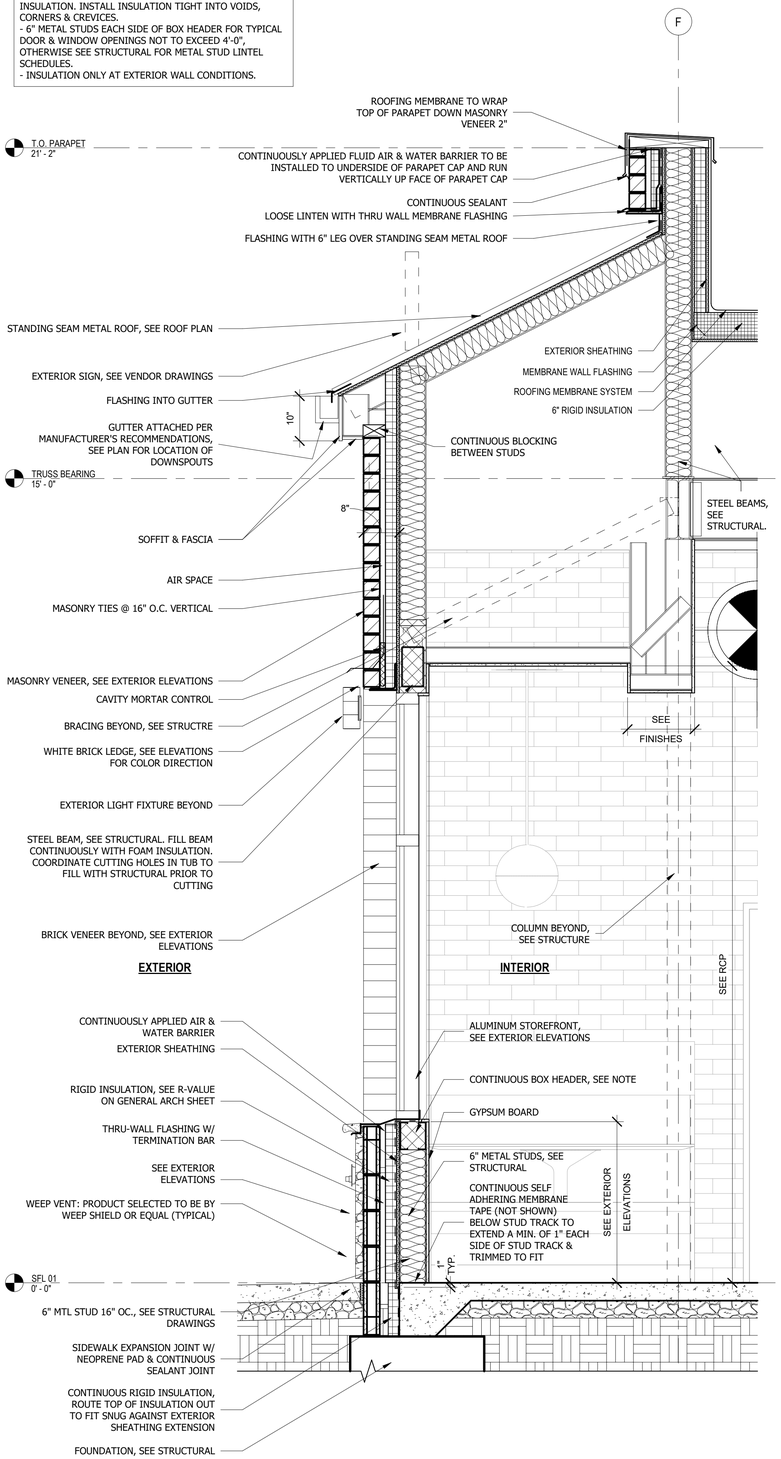
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DRAWING
EXTERIOR ELEVATIONS

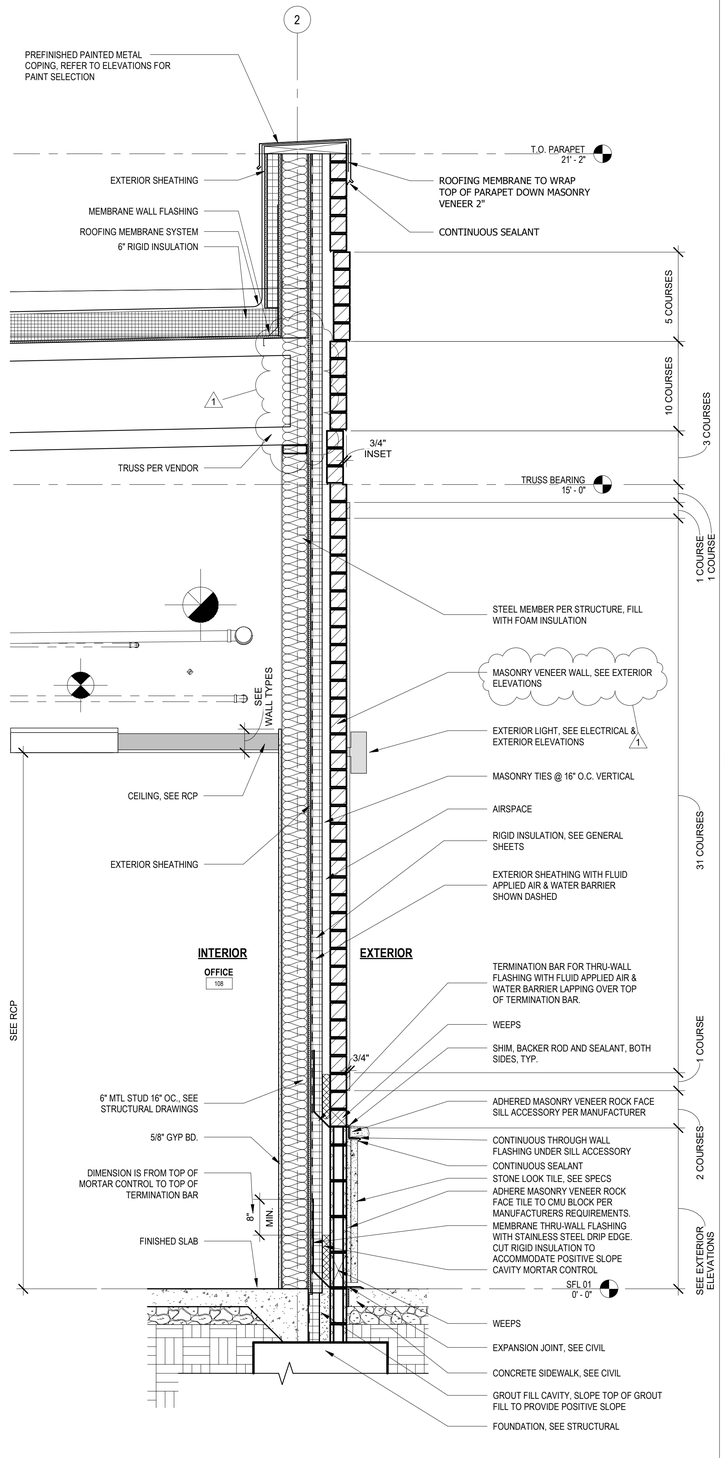
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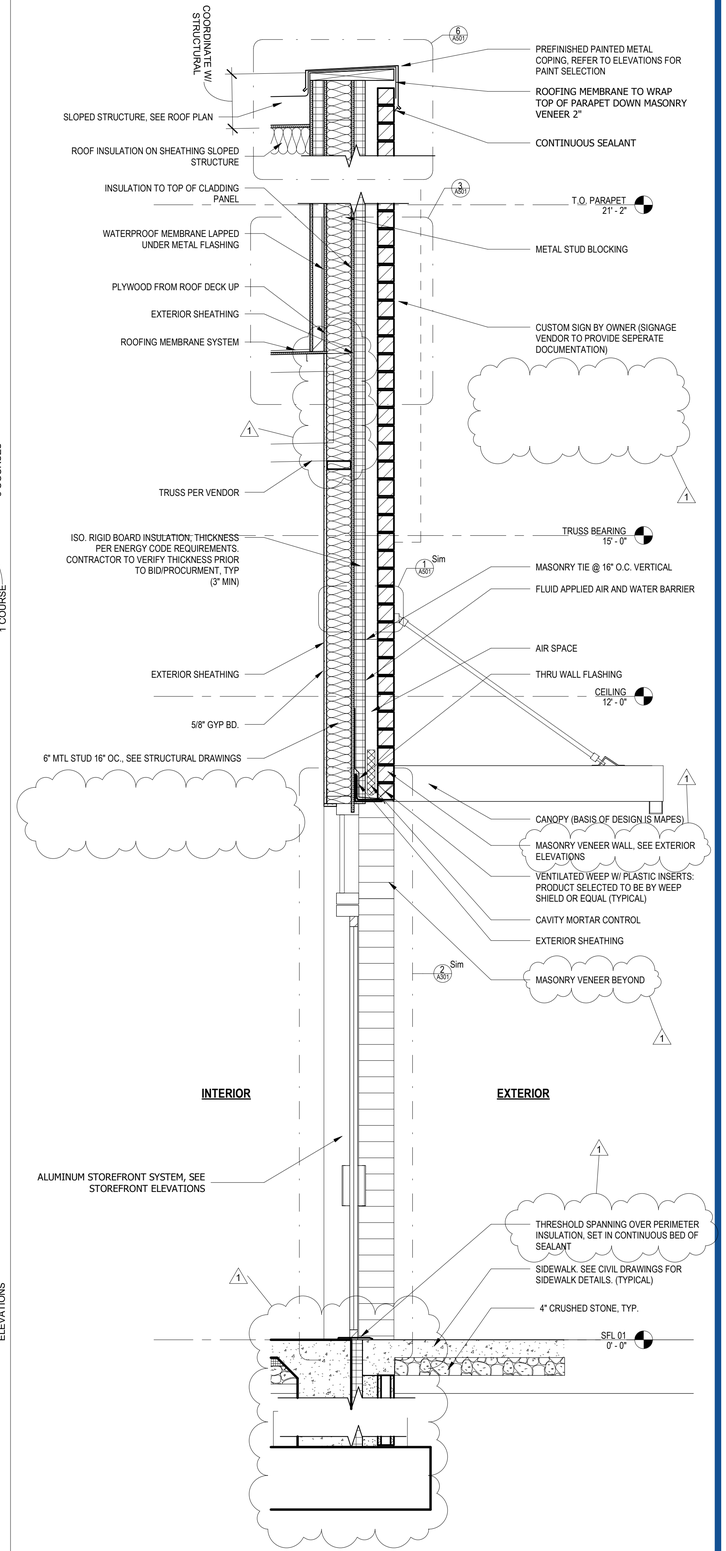
NOTES:
- BOX HEADER TO BE FILLED FULLY WITH FOAM INSULATION. INSTALL INSULATION TIGHT INTO VOIDS, CORNERS & CREVICES.
- 6" METAL STUDS EACH SIDE OF BOX HEADER FOR TYPICAL DOOR & WINDOW OPENINGS NOT TO EXCEED 4'-0", OTHERWISE SEE STRUCTURAL FOR METAL STUD LINTEL SCHEDULES.
- INSULATION ONLY AT EXTERIOR WALL CONDITIONS.



3 TYP WALL SECTION AT WINDOW
3/4" = 1'-0"



2 WALL SECTION @ FULL BRICK
3/4" = 1'-0"



1 WALL SECTION @ DOOR
3/4" = 1'-0"

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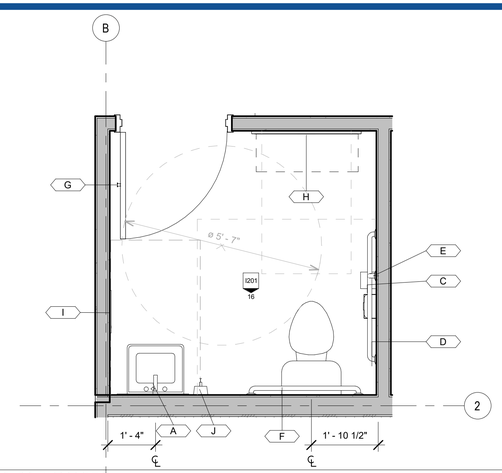
REVISIONS
1 ADD #01 01/24/24

PROJECT NUMBER: 23079
DRAWN BY: RL
DATE: 01.24.24
DRAWING: WALL SECTIONS

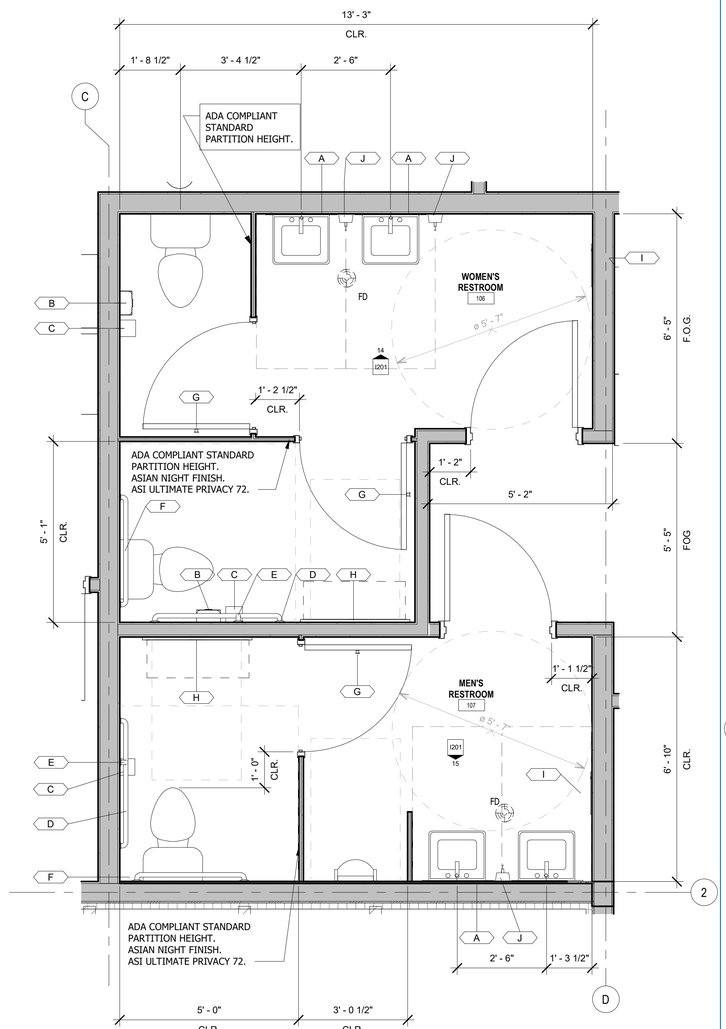
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EQUIPMENT SCHEDULE

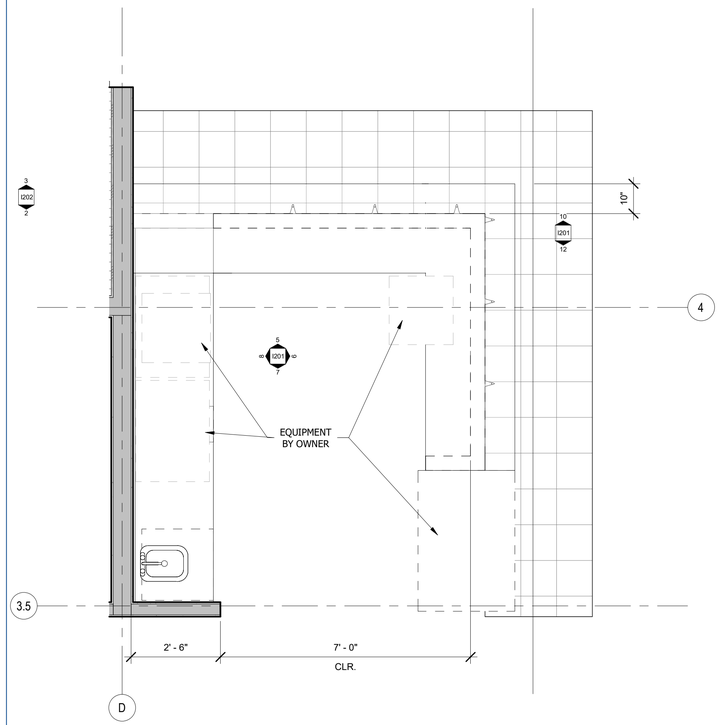
MARK	DESCRIPTIONS	MANUFACTURER	MODEL	COLOR	COMMENTS	IMAGE
A	MIRROR	BOBRICK	B-290 2436.MBLK	MATTE BLACK		
B	NAPKIN DISPOSAL, SURFACE-MOUNTED	BRADLEY CORPORATION	4A10	STAINLESS STEEL		
C	TOILET TISSUE DISPENSER	BRADLEY CORPORATION	5402	STAINLESS STEEL		
D	GRAB BAR	BRADLEY CORPORATION	832 001-42"	STAINLESS STEEL		
E	GRAB BAR	BRADLEY CORPORATION	832 001-18"	STAINLESS STEEL		
F	GRAB BAR	BRADLEY CORPORATION	832 001-36"	STAINLESS STEEL		
G	CLOTHES HOOK	BRADLEY CORPORATION	917	STAINLESS STEEL		
H	BABY CHANGING TABLE	KOALA KARE	KB310-SSRE	STAINLESS STEEL		
I	RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BRADLEY CORPORATION	2297-000000	STAINLESS STEEL		
J	SOAP DISPENSER	BRADLEY CORPORATION	6562	STAINLESS STEEL		



2 STAFF RESTROOM
1/2" = 1'-0"



3 DINING RESTROOMS
1/2" = 1'-0"



1 SERVER STATION
1/2" = 1'-0"

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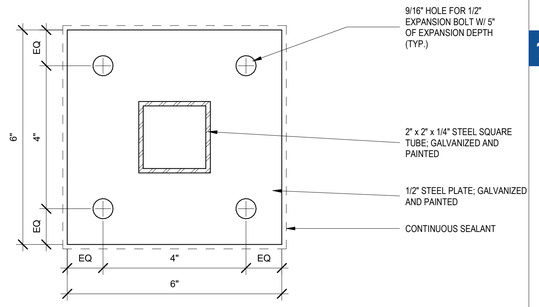
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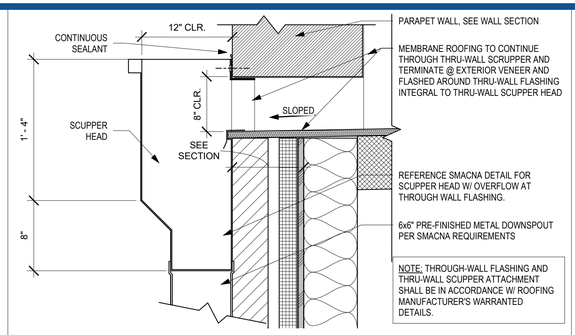
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ENLARGED PLANS

A401

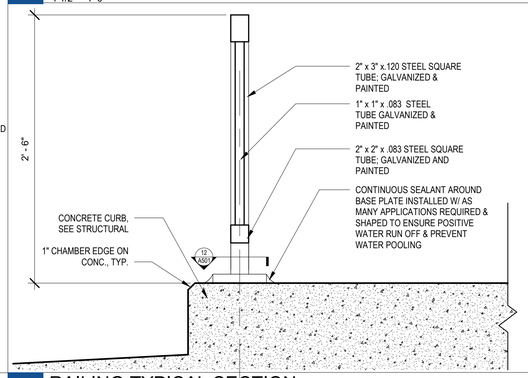
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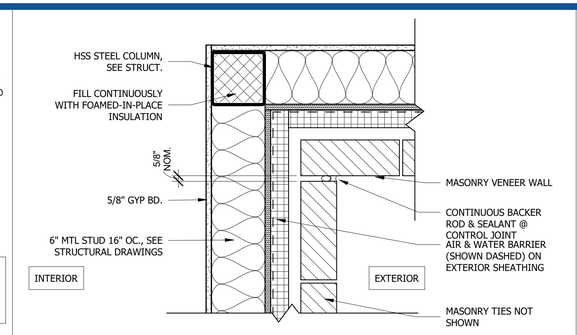
12 RAILING TYPICAL BASE PLATE DETAIL
6" = 1'-0"



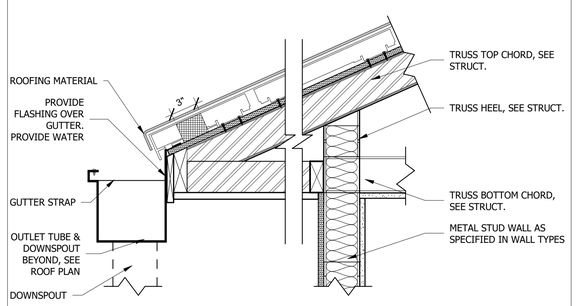
11 SCUPPER DETAIL
1 1/2" = 1'-0"



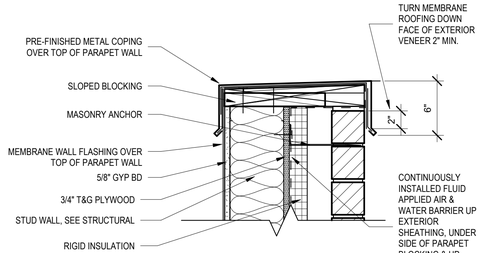
10 RAILING TYPICAL SECTION
1 1/2" = 1'-0"



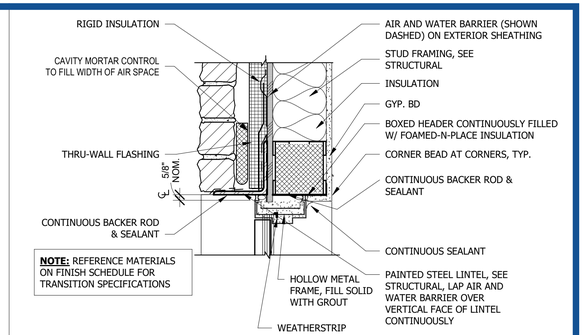
8 INSULATION FILLED STEEL COLUMN DETAIL
1 1/2" = 1'-0"



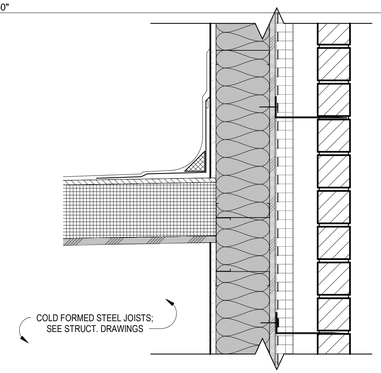
7 ROOF GUTTER DETAIL
1 1/2" = 1'-0"



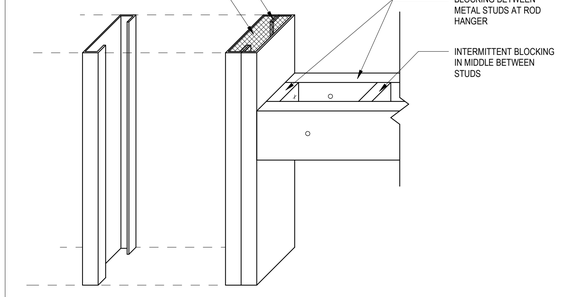
6 ROOFING COPING DETAIL
1 1/2" = 1'-0"



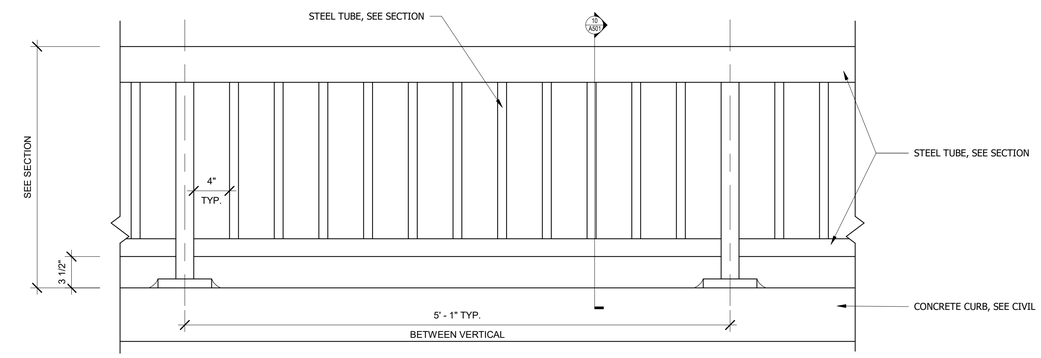
4 DOOR HEAD - STONE W/ MTL STUD
1 1/2" = 1'-0"



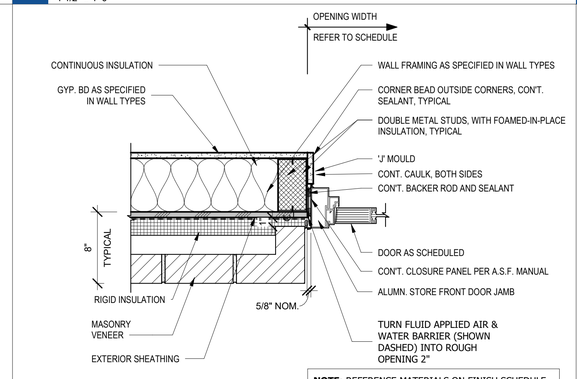
3 ROOFING CANT DETAIL
1 1/2" = 1'-0"



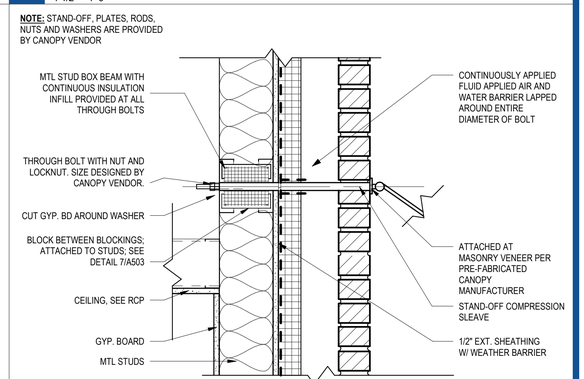
2 BLOCKING BTWN STUDS @ ROD HANGER PERSPECTIVE
1 1/2" = 1'-0"



9 RAILING TYPICAL ELEVATION
1 1/2" = 1'-0"



5 DOOR JAMB - STONE W/ MTL. STUD
1 1/2" = 1'-0"



1 BLOCKING BETWEEN STUDS AT ROD HANGER DETAIL
1 1/2" = 1'-0"

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REVISIONS

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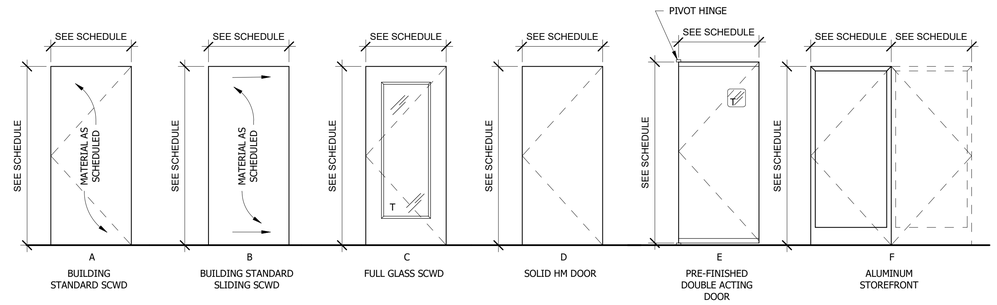
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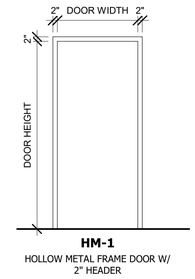
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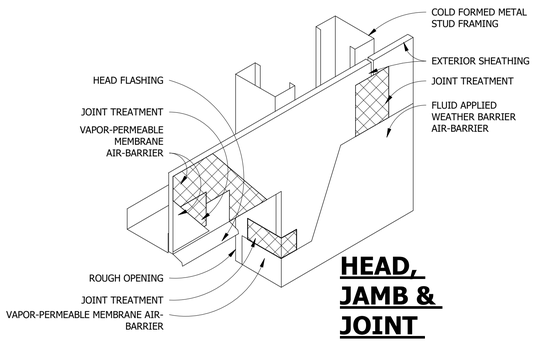
1 DOOR TYPES

3/8" = 1'-0"

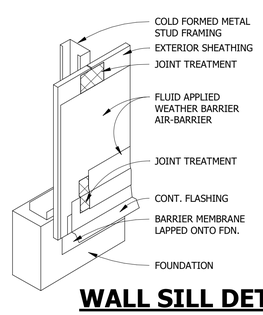


2 FRAME TYPES

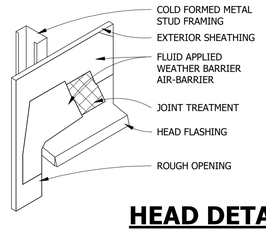
3/8" = 1'-0"



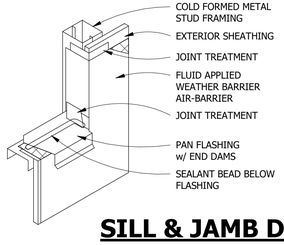
HEAD, JAMB & JOINT DETAIL



WALL SILL DETAIL



HEAD DETAIL



SILL & JAMB DETAIL

HARDWARE SCHEDULE

HW SET	FUNCTION	FINISH	COMMENTS
1	PASSAGE	BLACK	SILENCER, DOOR STOP, CLOSER
2	STOREROOM	BLACK	SILENCER, DOOR STOP, CLOSER - H.O., THRESHOLD, RAIN DRIP WEATHERSTRIPPING
3	NOT USED	-	-
4	OFFICE LOOK	BLACK	SILENCER, DOOR STOP
5	STOREFRONT	BLACK	SILENCER, CLOSER, STOREROOM LOCK, THRESEHOLD, RAIN DRIP, WEATHERSTRIPPING
6	PRIVACY/OCCUPIED	BLACK	ADA COMPLIANT, SILENCER, DOOR STOP/OCCUPIED INDICATOR, CLOSER
7	NOT USED	-	-
8	STANDARD DOOR	BLACK	CLOSER WITH HOLD OPEN, SILENCER, DOOR STOP, ADA COMPLIANT PANIC HARDWARE, ALL LEAVES, FLUSH BOLT
9	SLIDING/POCKET DOOR	BLACK	OVERHEAD TRACK, RECESSED CUP PULL, BOTH SIDES
10	DOUBLE ACTING DOOR	SEE SPECS	ALL HARDWARE AND FRAME PROVIDED BY MANUFACTURER, TEMPERED GLAZING.

DOOR SCHEDULE

MARK	LOCATION ROOM NO.	LOCATION ROOM	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME FINISH	HW SET	SPECIAL COMMENTS
101A	101	VESTIBULE	6' - 0"	7' -110"	0' - 1 3/4"	AL/F	PF	AL	PF	8	THRESHOLD
101B	101	VESTIBULE	6' - 0"	7' - 0"	0' - 1 3/4"	AL/F	PF	AL	PF	8	NO LOCKING
102	102	SOUTH DINING	4' - 0"	7' - 0"	0' - 1 3/4"	B	PL	AL	PTD	9	POCKET DOOR
102B	102	SOUTH DINING	3' - 0"	8' -10"	0' - 1 3/4"	AL/F	PF	AL	PF	8	SEE WINDOW ELEVATIONS
103	103	NORTH DINING	3' - 0"	7' - 0"	0' - 1 3/4" 0' - 1 3/4"	AL/F	PF	AL AL	PF	8	SEE WINDOW ELEVATIONS
103A	103	NORTH DINING	3' - 0"	8' - 0"	0' - 1 1/2"	AL/F	PF	AL	PF		
104	104	CARRY OUT	3' - 0"	8' - 1 1/2"	0' - 1 1/2"		PF	AL	PF	8	
106	106	WOMEN'S RESTROOM	3' - 0"	8' -10"	0' - 1 3/4"	A	PPSTIC LAMINATE TO MATCH PLAM-1	HOLLOW METAL	PAINT TO MATCH WALL PAINT	1	
107	107	MEN'S RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	A	PLASTIC LAMINATE TO MATCH PLAM-1	HOLLOW METAL	PAINT TO MATCH WALL PAINT	1	
108	108	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	A	PLASTIC LAMINATE TO MATCH PLAM-1	HOLLOW METAL	PAINT TO MATCH WALL PAINT	4	
109	109	STAFF RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	A	PLASTIC LAMINATE TO MATCH PLAM-1	HOLLOW METAL	PAINT TO MATCH WALL PAINT	6	
110A	110	KITCHEN	4' - 0"	7' - 0"	0' - 1 3/4"	HM	HM	HOLLOW METAL	PAINT TO MATCH ADJACENT STONE	2	EXTERIOR DOOR
110B	110	KITCHEN	3' - 0"	7' - 0"	0' - 1 3/4"	E	STAINLESS STEEL	PKG	STAINLESS STEEL	10	DOUBLE-ACTION DOOR
111	111	RISER	3' - 0"	7' - 0"	0' - 1 3/4"	D	PTD	HOLLOW METAL	PAINT TO MATCH WALL PAINT	5	

DOOR SCHEDULE NOTES

1. ALL DOOR HARDWARE AND ACCESSORIES SHALL COMPLY WITH THE MOST CURRENT RELEASE OF THE AMERICAN DISABILITIES ACT.
2. CHECK FLOOR PLAN FOR DOOR SWINGS.
3. MEANS OF EGRESS DOORS SHALL REMAIN READILY OPERABLE FROM THE SIDE WITH EGRESS WITHOUT THE NEED OF KEY, SPECIAL KNOWLEDGE, OR SPECIAL EFFORT.

A. MOUNT DOOR CLOSER ON PUSH SIDE OF DOOR.
B. TEMPLATE DOOR CLOSER TO MAX. ALLOWABLE SWING
C. PROVIDE PANIC & FIRE EXIT HARDWARE AS REQUIRED PER CODE.

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REVISIONS

2	ADD #02	06/07/24

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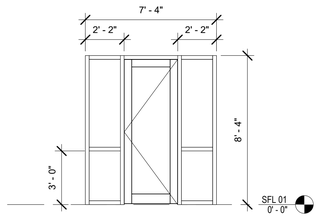
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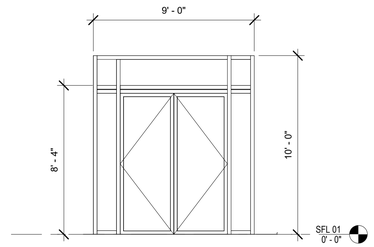
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A601

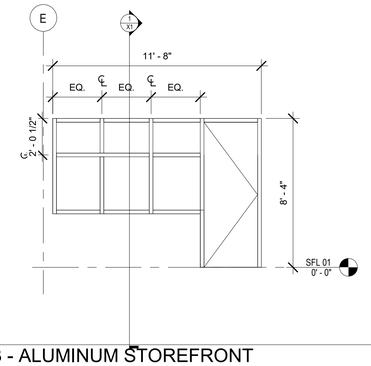
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Page 112 of 256 • Lot 0001 - Tradewind Dr



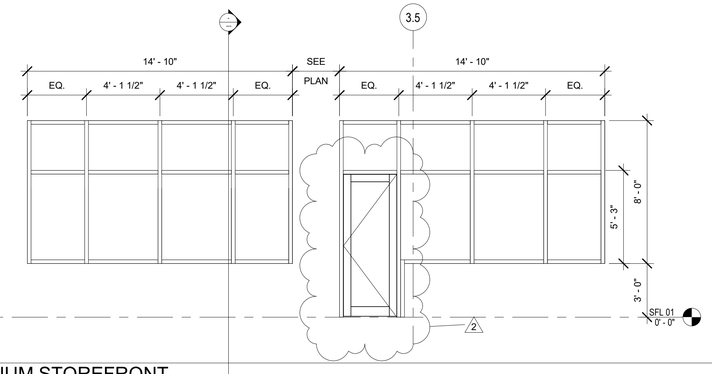
6 5 - ALUMINUM STOREFRONT
1/4" = 1'-0"



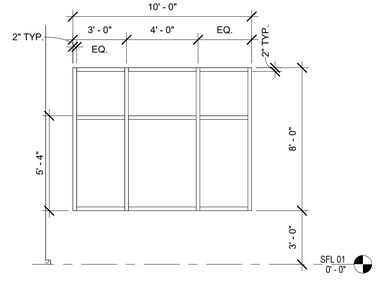
5 4 - ALUMINUM STOREFRONT
1/4" = 1'-0"



4 3 - ALUMINUM STOREFRONT
1/4" = 1'-0"



3 2 - ALUMINUM STOREFRONT
1/4" = 1'-0"



2 1 - ALUMINUM STOREFRONT
1/4" = 1'-0"

GENERAL NOTES

1. FIELD VERIFY ROUGH OPENINGS PRIOR TO FABRICATION, ROUGH-IN & INSTALLATION OF STOREFRONT & CURTAIN WALL SYSTEMS.
2. ENSURE CODE REQUIRED TEMPERED GLAZING IS PROVIDED.
3. TYPICAL DIMENSIONS APPLY WHOLISTICALLY UNLESS NOTED OTHERWISE.

LEGEND

SP — SPANDREL GLASS

T — TEMPERED GLASS

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WILLIAM M. PARKER
REGISTERED ARCHITECT
No. 107418
STATE OF TENNESSEE

ISSUED FOR

- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS

2 ADD #02 06/07/24

PROJECT NUMBER:
23079

DRAWN BY:
RL

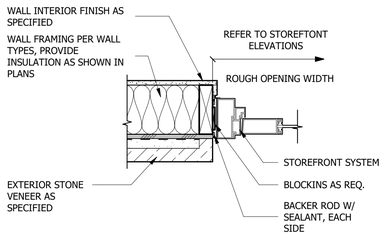
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DRAWING
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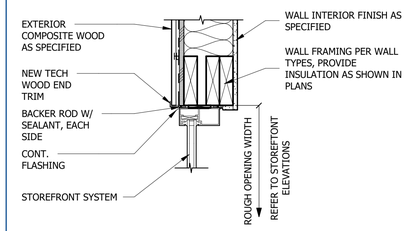
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Page 113 of 256 • Lot 0001 - Tradewind Dr

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



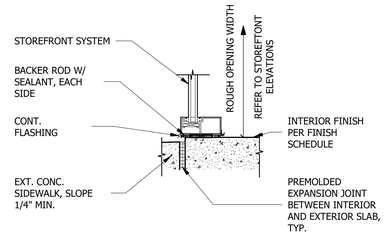
20 STOREFRONT JAMB - STONE @ DOOR
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



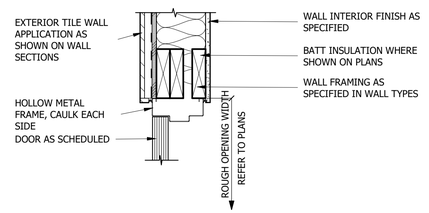
16 STOREFRONT HEAD- SIDING
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



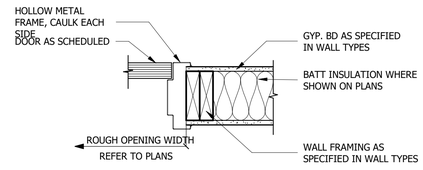
12 STOREFRONT SILL - FINISH FLOOR
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



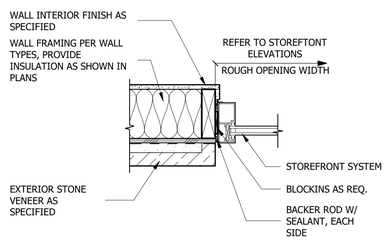
8 DOOR HEAD - EXT. TILE MATERIAL
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



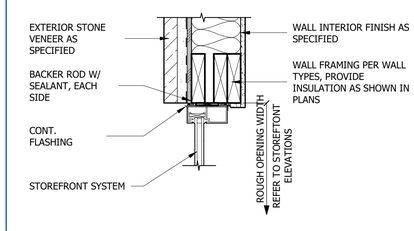
4 DOOR JAMB - 4", 6", & 8" WD STUD WALL
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



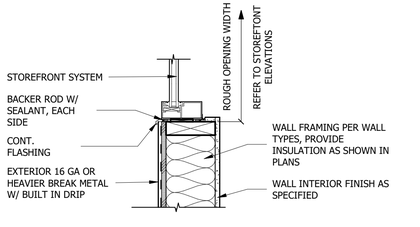
19 STOREFRONT JAMB - STONE
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



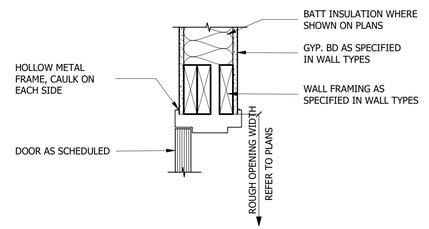
15 STOREFRONT HEAD - STONE
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



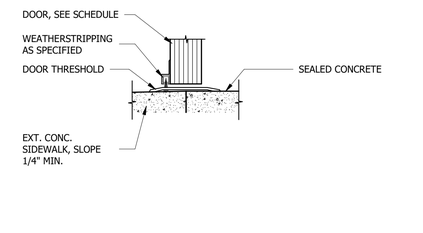
11 STOREFRONT SILL - BREAK METAL
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



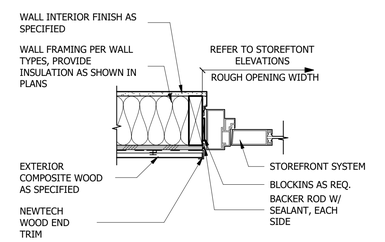
7 DOOR HEAD- 4", 6", & 8" WD STUD WALL
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



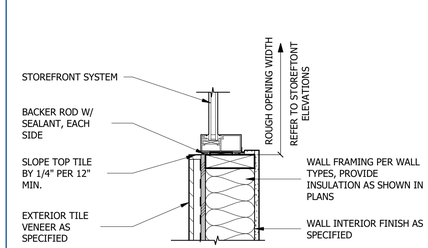
3 DOOR SILL - CONC_EXTERIOR
3" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



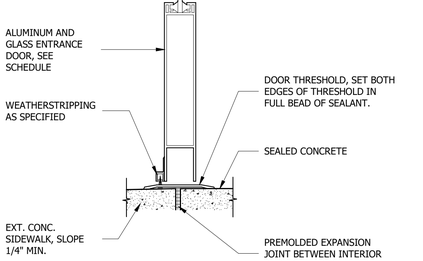
18 STOREFRONT JAMB - SIDING @ DOOR
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



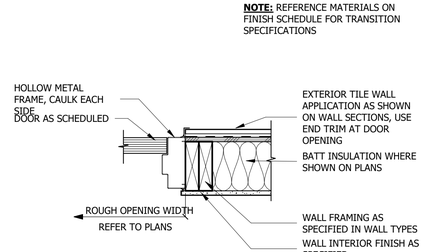
14 STOREFRONT SILL - TILE
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



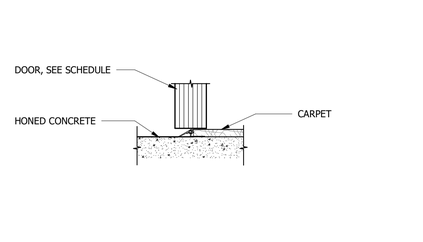
10 STOREFRONT DOOR SILL, EXT.
3" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



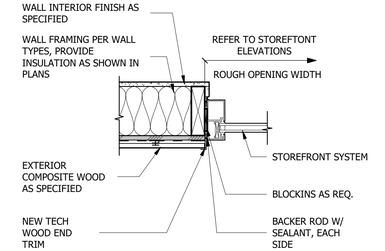
6 DOOR JAMB - EXT. @ COMPOSITE WOOD
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



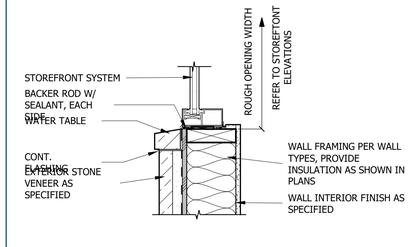
2 DOOR SILL - CONC_CPT
3" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



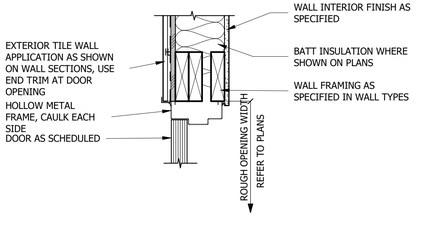
17 STOREFRONT JAMB - SIDING
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



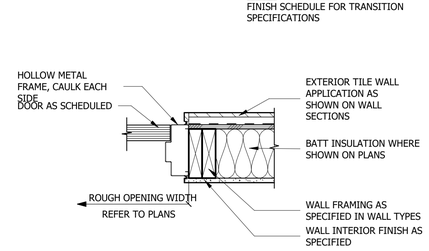
13 STOREFRONT SILL - STONE
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



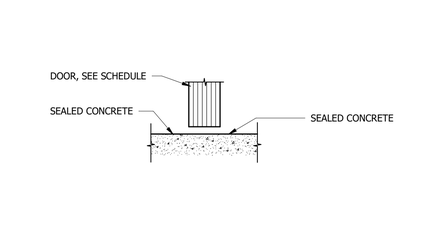
9 DOOR HEAD - EXT. @ COMPOSITE WOOD
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



5 DOOR JAMB - EXT. TILE MATERIAL
1 1/2" = 1'-0"

NOTE: REFERENCE MATERIALS ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS



1 DOOR SILL - CONC_CONC
3" = 1'-0"

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WILLIAM M. PARKER
REGISTERED ARCHITECT
No. 107418
STATE OF TENNESSEE
12/22/2023

ISSUED FOR
- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS

PROJECT NUMBER:
23079

DRAWN BY:
RL

DATE:
12.22.23

DRAWING
HOLLOW METAL, STOREFRONT DETAILS

A801

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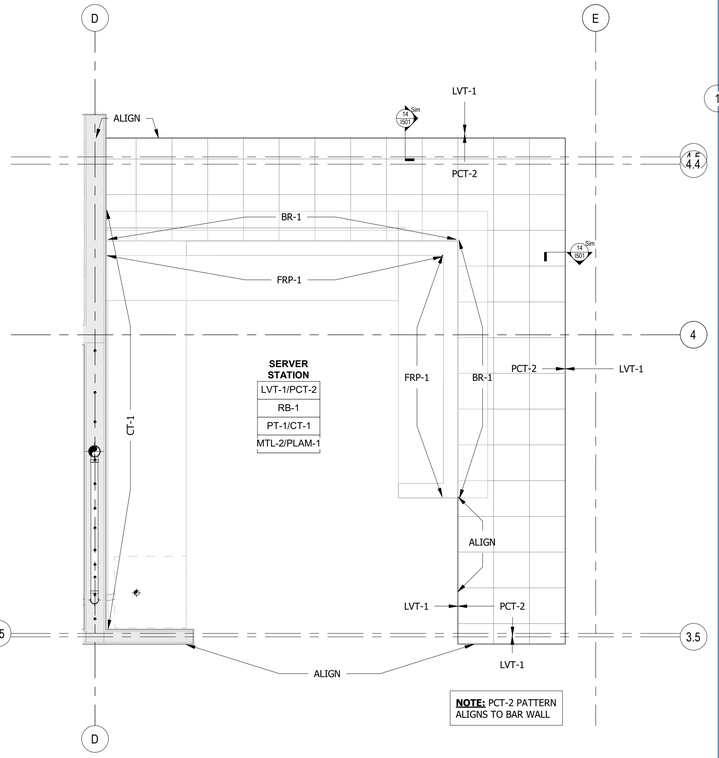
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RL

DATE:
12.22.23

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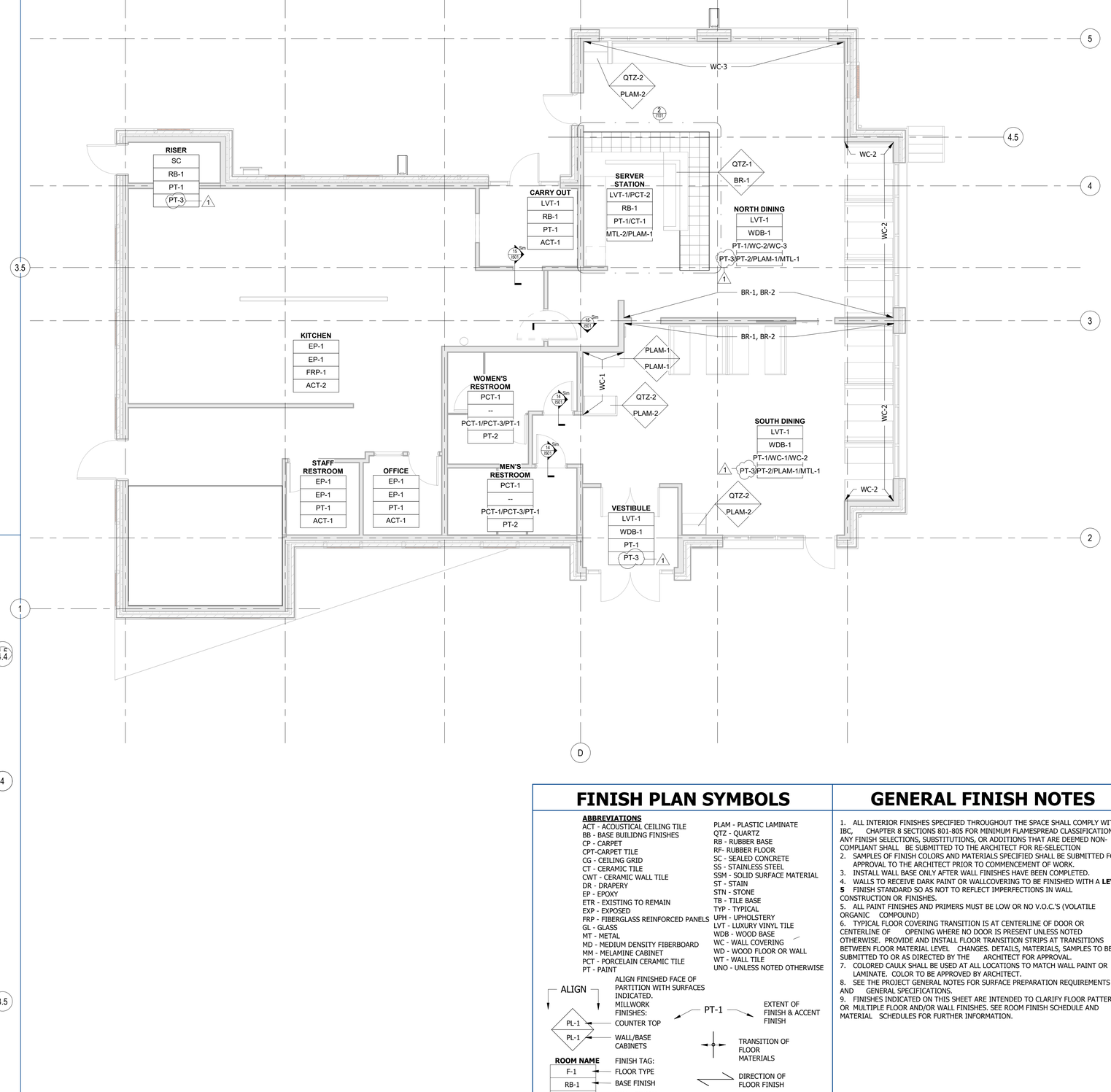
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2 SERVER STATION FINISH PLAN

1/2" = 1'-0"



1 SFL 01 FINISH PLAN

3/16" = 1'-0"

FINISH PLAN SYMBOLS

ABBREVIATIONS

ACT - ACOUSTICAL CEILING TILE
BB - BASE BUILIDNG FINISHES
CP - CARPET
CPT-CARPET TILE
CG - CEILING GRID
CT - CERAMIC TILE
CWT - CERAMIC WALL TILE
DR - DRAPERY
EP - EPOXY
ETR - EXISTING TO REMAIN
EXP - EXPOSED
FRP - FIBERGLASS REINFORCED PANELS
GL - GLASS
MT - METAL
MD - MEDIUM DENSITY FIBERBOARD
MM - MELAMINE CABINET
PCT - PORCELAIN CERAMIC TILE
PT - PAINT
PLAM - PLASTIC LAMINATE
QTZ - QUARTZ
RB - RUBBER BASE
RF- RUBBER FLOOR
SC - SEALED CONCRETE
SS - STAINLESS STEEL
SSM - SOLID SURFACE MATERIAL
ST - STAIN
STN - STONE
TB - TILE BASE
TYP - TYPICAL
UPH - UPHOLSTERY
LVT - LUXURY VINYL TILE
WDB - WOOD BASE
WC - WALL COVERING
WD - WOOD FLOOR OR WALL
WT - WALL TILE
UNO - UNLESS NOTED OTHERWISE

ALIGN — ALIGN FINISHED FACE OF PARTITION WITH SURFACES INDICATED.

PL-1 — MILLWORK FINISHES:
PL-1 — COUNTER TOP
PL-1 — WALL/BASE CABINETS

PT-1 — EXTENT OF FINISH & ACCENT FINISH

TRANSITION OF FLOOR MATERIALS

DIRECTION OF FLOOR FINISH

ROOM NAME — FINISH TAG:
F-1 — FLOOR TYPE
RB-1 — BASE FINISH
P-1 — WALL FINISH
ACT-1 — CEILING FINISH

GENERAL FINISH NOTES

1. ALL INTERIOR FINISHES SPECIFIED THROUGHOUT THE SPACE SHALL COMPLY WITH IBC, CHAPTER 8 SECTIONS 801-805 FOR MINIMUM FLAMESPREAD CLASSIFICATION. ANY FINISH SELECTIONS, SUBSTITUTIONS, OR ADDITIONS THAT ARE DEEMED NON-COMPLIANT SHALL BE SUBMITTED TO THE ARCHITECT FOR RE-SELECTION
2. SAMPLES OF FINISH COLORS AND MATERIALS SPECIFIED SHALL BE SUBMITTED FOR APPROVAL TO THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.
3. INSTALL WALL BASE ONLY AFTER WALL FINISHES HAVE BEEN COMPLETED.
4. WALLS TO RECEIVE DARK PAINT OR WALLCOVERING TO BE FINISHED WITH A **LEVEL 5** FINISH STANDARD SO AS NOT TO REFLECT IMPERFECTIONS IN WALL CONSTRUCTION OR FINISHES.
5. ALL PAINT FINISHES AND PRIMERS MUST BE LOW OR NO V.O.C.'S (VOLATILE ORGANIC COMPOUND)
6. TYPICAL FLOOR COVERING TRANSITION IS AT CENTERLINE OF DOOR OR CENTERLINE OF OPENING WHERE NO DOOR IS PRESENT UNLESS NOTED OTHERWISE. PROVIDE AND INSTALL FLOOR TRANSITION STRIPS AT TRANSITIONS BETWEEN FLOOR MATERIAL LEVEL CHANGES. DETAILS, MATERIALS, SAMPLES TO BE SUBMITTED TO OR AS DIRECTED BY THE ARCHITECT FOR APPROVAL.
7. COLORED CAULK SHALL BE USED AT ALL LOCATIONS TO MATCH WALL PAINT OR LAMINATE. COLOR TO BE APPROVED BY ARCHITECT.
8. SEE THE PROJECT GENERAL NOTES FOR SURFACE PREPARATION REQUIREMENTS AND GENERAL SPECIFICATIONS.
9. FINISHES INDICATED ON THIS SHEET ARE INTENDED TO CLARIFY FLOOR PATTERNS OR MULTIPLE FLOOR AND/OR WALL FINISHES. SEE ROOM FINISH SCHEDULE AND MATERIAL SCHEDULES FOR FURTHER INFORMATION.

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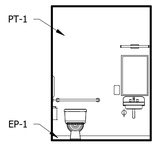
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- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS
1 ADD #01 01/24/24

PROJECT NUMBER: 23079
DRAWN BY: KM
DATE: 01.24.24
DRAWING FINISH PLANS

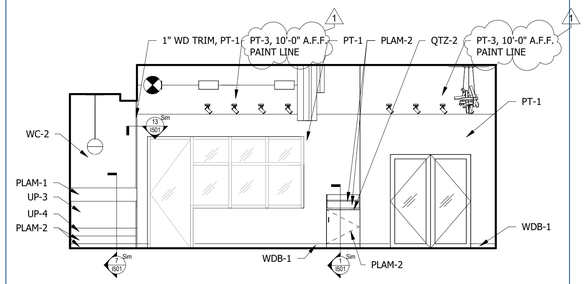
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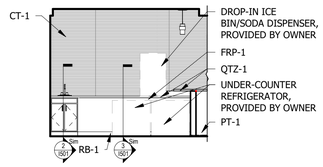


NOTE:
APPLY WALL TILE & PATTERN TO ALL WALLS IN RESTROOM

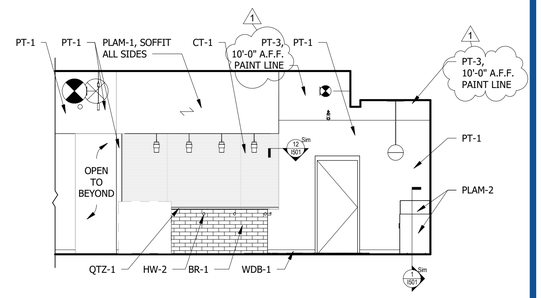
16 STAFF RESTROOM
3/16" = 1'-0"



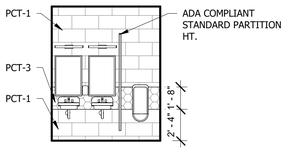
12 LOWER DINING - SOUTH
3/16" = 1'-0"



8 SERVER STATION - WEST
3/16" = 1'-0"

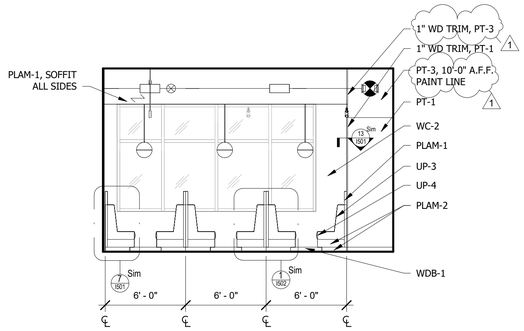


4 UPPER DINING - WEST
3/16" = 1'-0"

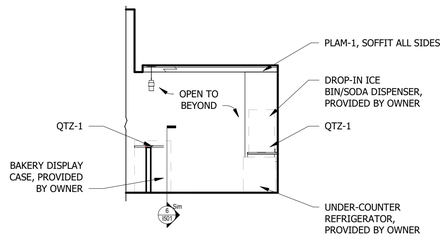


NOTE:
APPLY WALL TILE & PATTERN TO ALL WALLS IN RESTROOM

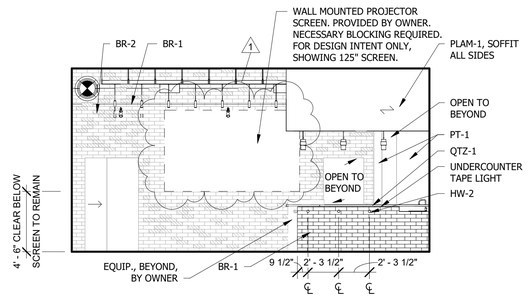
15 MEN'S RESTROOM - SOUTH
3/16" = 1'-0"



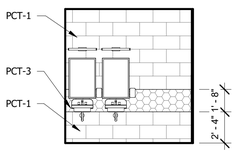
11 LOWER DINING - EAST
3/16" = 1'-0"



7 SERVER STATION - SOUTH
3/16" = 1'-0"

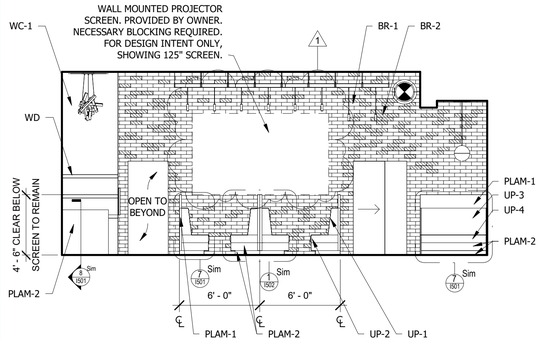


3 UPPER DINING - SOUTH
3/16" = 1'-0"

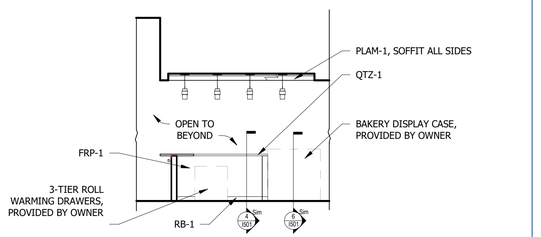


NOTE:
APPLY WALL TILE & PATTERN TO ALL WALLS IN RESTROOM

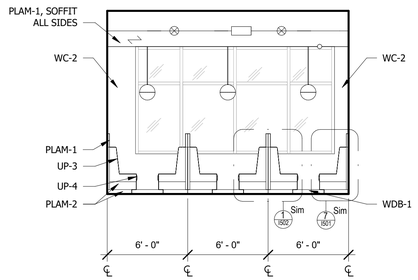
14 WOMEN'S RESTROOM - NORTH
3/16" = 1'-0"



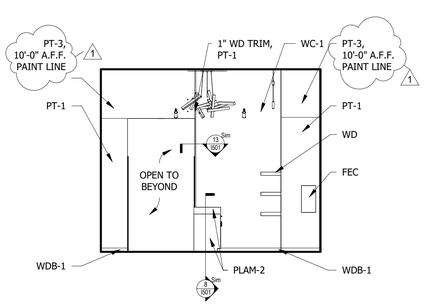
10 LOWER DINING - NORTH
3/16" = 1'-0"



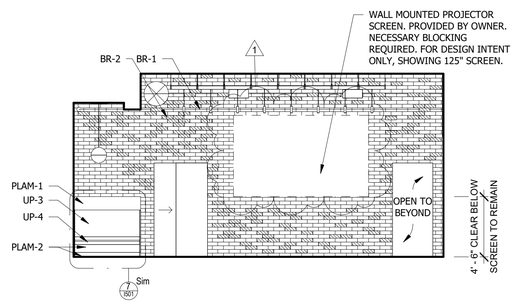
6 SERVER STATION - EAST
3/16" = 1'-0"



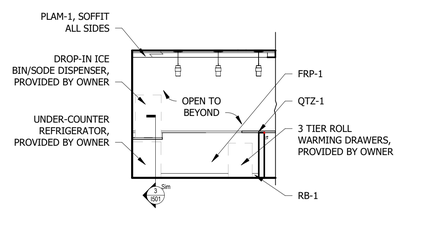
2 UPPER DINING - EAST
3/16" = 1'-0"



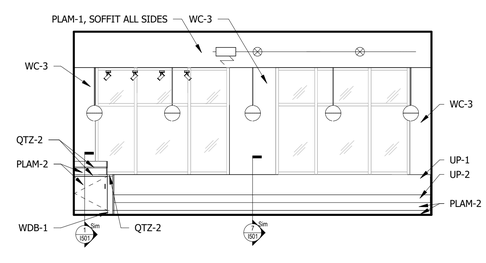
13 LOWER DINING - WEST
3/16" = 1'-0"



9 TV WALL
3/16" = 1'-0"



5 SERVER STATION - NORTH
3/16" = 1'-0"



1 UPPER DINING - NORTH
3/16" = 1'-0"

STUDIO
761 OLD HICKORY BLVD STE 301
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call | 615.258.5562
email | hello@paradymstudio.com

OLD GLORY RESTAURANT

TRADEWINDS DR.
PARCEL 33.35
COLUMBIA, TN

WILLIAM M. PARKER — REGISTERED ARCHITECT — No. 107418 — STATE OF TENNESSEE — 01/24/2024

ISSUED FOR
- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS
1 ADD #01 01/24/24

PROJECT NUMBER:
23079

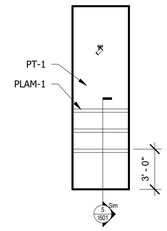
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DATE:
01.24.24

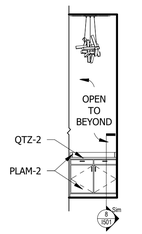
DRAWING
INTERIOR ELEVATIONS

I201

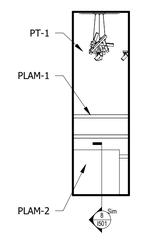
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3 MERCH WALL SHELVING
3/16" = 1'-0"



2 BACK OF HOST STAND
3/16" = 1'-0"



1 HOST STAND - NORTH
3/16" = 1'-0"

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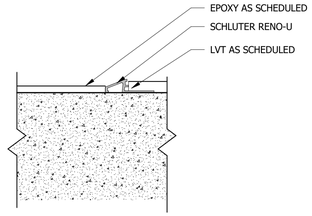
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DATE:
12.22.23

DRAWING
INTERIOR ELEVATIONS

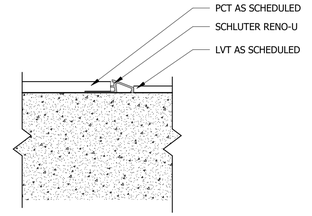
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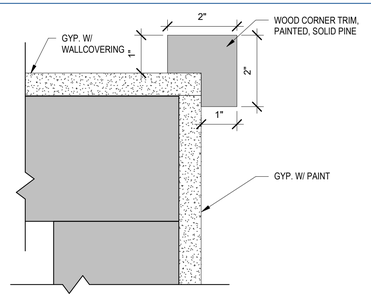
NOTE: REFERENCE MATERIAL ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS

15 FLOOR TRANSITION - LVT TO EPOXY
6" = 1'-0"



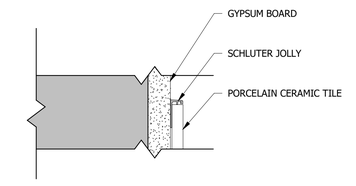
NOTE: REFERENCE MATERIAL ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS

14 FLOOR TRANSITION - TILE TO LVT
6" = 1'-0"



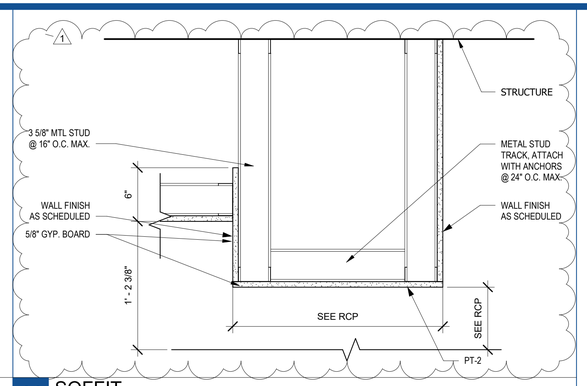
NOTE: REFERENCE MATERIAL ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS

13 WALLCOVERING TRANSITION - CORNER WOOD TRIM
6" = 1'-0"

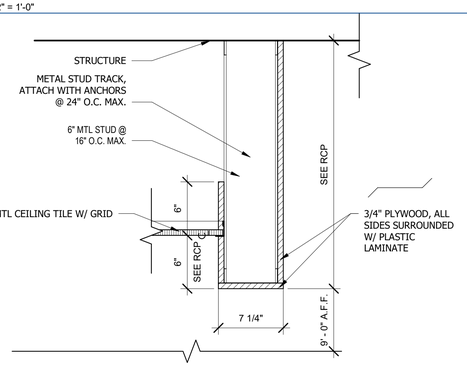


NOTE: REFERENCE MATERIAL ON FINISH SCHEDULE FOR TRANSITION SPECIFICATIONS

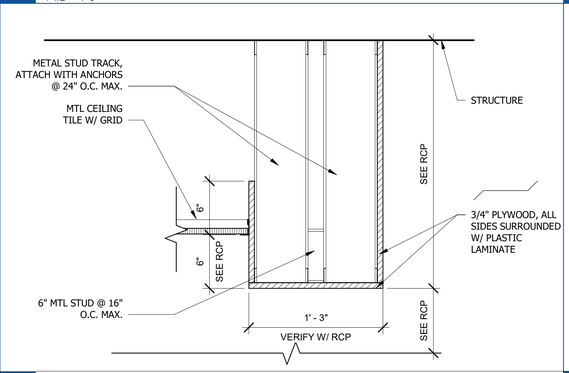
12 WALL TILE TRANSITION - GYP. TO TILE
6" = 1'-0"



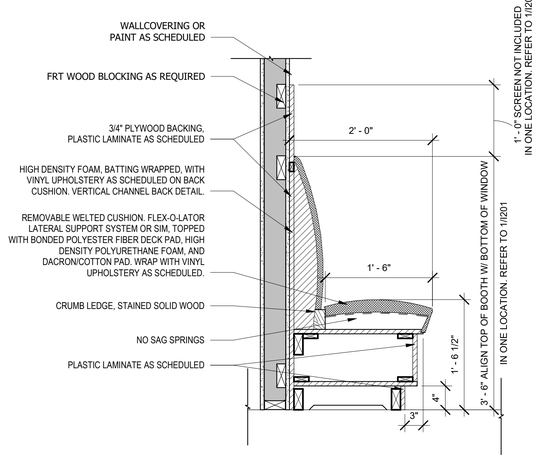
11 SOFFIT
1 1/2" = 1'-0"



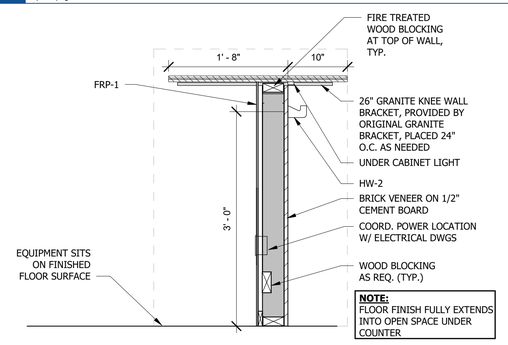
10 SERVER STATION CEILING SOFFIT DETAIL
1 1/2" = 1'-0"



9 BOOTH CEILING SOFFIT DETAIL
1 1/2" = 1'-0"

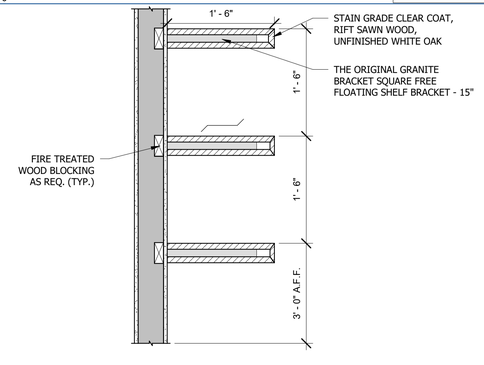


7 BOOTH
1" = 1'-0"



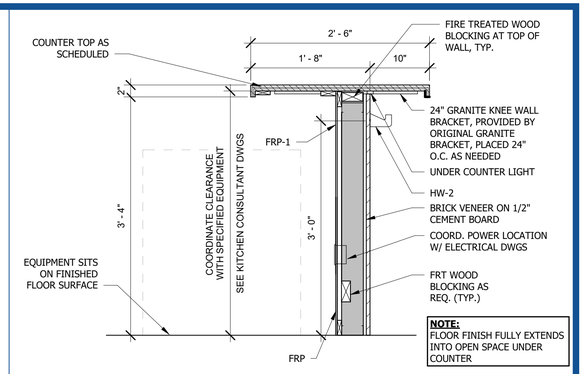
6 UNDER-COUNTER DESSERT DISPLAY
1" = 1'-0"

NOTE: AWI GUIDELINES



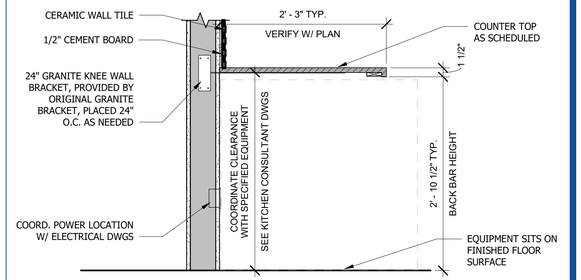
5 TYP. FLOATING WALL SHELVES
1" = 1'-0"

NOTE: AWI GUIDELINES



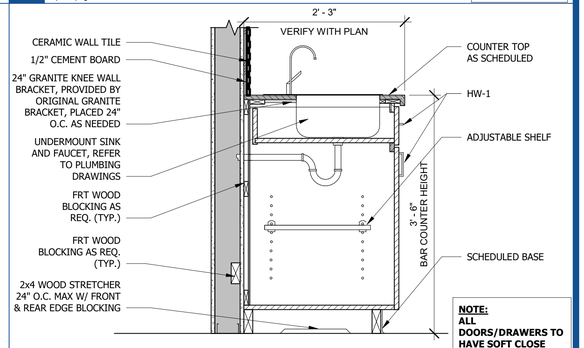
4 BAR & APPLIANCE UNDER-COUNTER
1" = 1'-0"

NOTE: AWI GUIDELINES



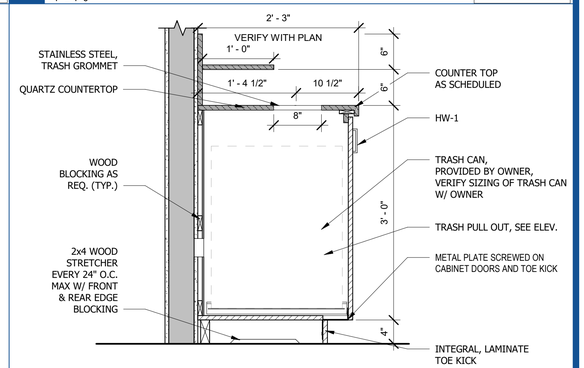
3 BACK BAR APPLIANCE UNDER-COUNTER
1" = 1'-0"

NOTE: AWI GUIDELINES



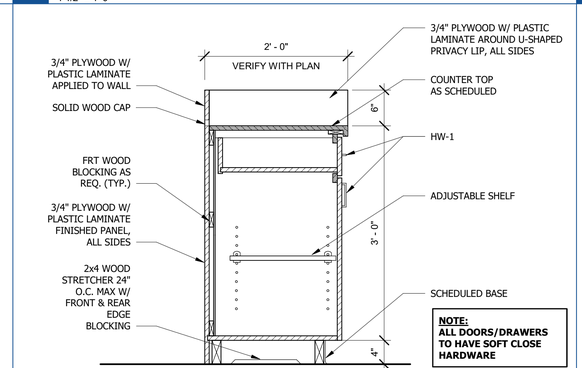
2 TYP CABINET WITH SINK SECTION
1" = 1'-0"

NOTE: AWI GUIDELINES



1 TYP TRASH BASE CAB SECTION
1" = 1'-0"

NOTE: AWI GUIDELINES



8 HOST STAND
1" = 1'-0"

NOTE: AWI GUIDELINES

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PROJECT NUMBER: 23079

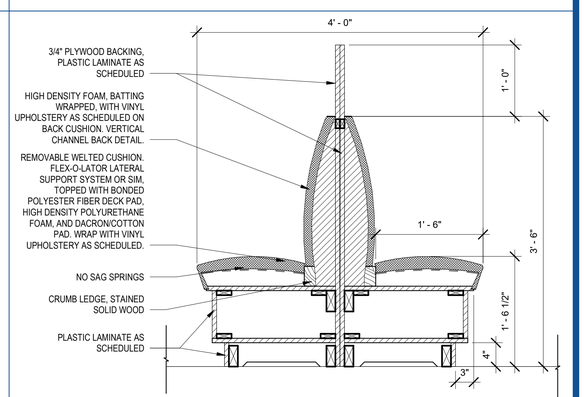
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1 DOUBLE BOOTH
1" = 1'-0"

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FLOOR

CODE	MATERIAL	MANUFACTURER	STYLE	STYLE NO.	COLOR	SIZE	INSTALLATION	NOTES	IMAGE	CONTACT
EP-1	EPOXY	PROCOAT	PRO QUARTZ SYSTEM DOUBLE BROADCAST SYSTEM	PQ200	332 CHARCOAL	3/16"	SEAMLESS WITH INTEGRAL COVE BASE	KITCHEN		
LVT-1	LUXURY VINYL TILE	INTERFACE	TEXTURED WOODGRAINS	A00415	ANTIQUE OAK	25 CM X 1M	HERRINGBONE	FIELD		PATRICK KELLE PATRICK.KELLY@INTERFACE.COM 615.504.3971
PCT-1	PORCELAIN TILE	DALTILE	SCRIPTER	AR61	HERO	12" X 24"	BRICK	RESTROOM		ABBY FINNEGAN ABBY.FINNEGAN@DALTILE.COM 615.519.9672
PCT-2	PORCELAIN TILE	DALTILE	MEMOIR	ME29	COSMO BLUE	12" X 12"	MONOLITHIC	IN FRONT OF SERVER STATION		ABBY FINNEGAN ABBY.FINNEGAN@DALTILE.COM 615.519.9672

BASE

CODE	MATERIAL	MANUFACTURER	STYLE	STYLE NO.	COLOR	SIZE	INSTALLATION	NOTES	IMAGE	CONTACT
EP-1	EPOXY	PROCOAT	PRO QUARTZ SYSTEM DOUBLE BROADCAST SYSTEM OR SIM	PQ200	CHARCOAL	4", STANDARD RADIUS COVE BASE	SEAMLESS WITH INTEGRAL COVE BASE	KITCHEN		
RB-1	RUBBER WALL BASE	TARKETT	TSB TG1 4" X 4 1/8" TOE BASEWORKS	S102234-TG1-WB 0004-TSB4	SNOWBOUND	4"				ANGELA MULLINS ANGEL.MULLIONS@TARKETT.COM
WDB-1	WOOD		4" FINGER JOINTED PINE		SW IRON ORE 7069	4"		FIELD		

WALL

CODE	MATERIAL	MANUFACTURER	STYLE	STYLE NO.	COLOR	SIZE	INSTALLATION	NOTES	IMAGE	CONTACT
BR-1	BRICK	B&F CERAMICS	MASONRY BRICK	O310MO-SAM	OLD STREET	3" X 10"	BRICK	DINING		LINDSEY CARABIN LINDSEYC@BFCERAMICS.COM 540.286.3000
BR-2	BRICK	B&F CERAMICS	MASONRY BRICK	O310MD-SAM	OLD STREET VINTAGE	3" X 10"	BRICK, RANDOMIZED, DISAPATES AROUND & ABOVE BOOTHS	DINING		LINDSEY CARABIN LINDSEYC@BFCERAMICS.COM 540.286.3000
CT-1	CERAMIC TILE	PORCELANOSA	LISTON HANNOVER	100304585	BONE TOPO	23" X 59"	MONOLITHIC	SERVER STATION, JOLLY EDGE TRIM 1/4" BRUSH STN STEEL		JILL SANDERS JSANDERS@PORCELANOSA-USA.COM 629.217.6306
FRP-1	FIBER-REINFORCED PANEL	CRANE COMPOSITES	GLASBORD SMOOTH TEXTURE	85	WHITE	4' X 10' X .75" THICK		CLASS C FIRE RATED, KITCHEN		
PCT-1	PORCELAIN TILE	DALTILE	SCRIPTER	AR61	HERO	12" X 24"	BRICK	APPLY TO ALL WALLS IN RESTROOMS, JOLLY EDGE TRIM 1/4" BRUSH STN STEEL		ABBY FINNEGAN ABBY.FINNEGAN@DALTILE.COM 615.519.9672
PCT-3	PORCELAIN TILE	DALTILE	SCRIPTER	AR61	HERO	8" HEX		APPLY TO ALL WALLS IN RESTROOMS		ABBY FINNEGAN ABBY.FINNEGAN@DALTILE.COM 615.519.9672
PT-1	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 9581	COTTON			FIELD PAINT, EPOXY IN RESTROOMS & CARRY-OUT		
WC-1	WALL COVERING	MOMENTUM	OCHROMA	2VOC-09	PAVONIA			HOST STAND, WOOD TRIM PIECE - SEE ELEVATION		LORI KING LKING@MOMTEX.COM 615.306.5209
WC-2	WALL COVERING	WOLF GORDON	SERRA	SRR 5216	RUSSET			DINING, WOOD TRIM PIECE - SEE ELEVATION		SUE MCCAFFREY SUSAN.MCCAFFREY@WOLFGORDON.COM 718.391.4835
WC-3	WALL COVERING	WOLF GORDON	HURLEY	HRL 5471M	COPPER			NORTH DINING		SUE MCCAFFREY SUSAN.MCCAFFREY@WOLFGORDON.COM 718.391.4835

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REVISIONS

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DRAWING
INTERIOR SCHEDULES

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CEILING

CODE	MATERIAL	MANUFACTURER	STYLE	STYLE NO.	COLOR	SIZE	EDGE	GRID	NOTES	IMAGE	CONTACT
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG OR SIM.	ULTIMA	1911	WHITE	24" X 24"	TEGULAR	PRELUDE 15/16" WHITE SUSPENSION SYSTEM			GARREN WOLFGANG GJWOLFGANG@ARMSTRONGCEILINGS.COM 615.598.6831
ACT-2	ACOUSTICAL CEILING TILE	ARMSTRONG OR SIM.	CALLA HEALTH ZONE	2232	WHITE	24" X 24"	TEGULAR	PRELUDE 15/16" WHITE SUSPENSION SYSTEM	KITCHEN		GARREN WOLFGANG GJWOLFGANG@ARMSTRONGCEILINGS.COM 615.598.6831
MTL-1	METAL	AMERICAN TIN CEILINGS	PATTERN #36		STAINLESS STEEL GLOSS	24" X 24"		COLOR TO MATCH MTL-1	DINING		CYNTHIA PEREZ CYNTHIA.PEREZ@AMERICANTINCEILINGS.COM 941.557.5100
MTL-2	METAL	AMERICAN TIN CEILINGS	PATTERN #36		COPPER PENNY VEIN	24" X 24"		COLOR TO MATCH MTL-2	SERVER STATION		CYNTHIA PEREZ CYNTHIA.PEREZ@AMERICANTINCEILINGS.COM 941.557.5100
PLAM-1	PLASTIC LAMINATE	FORMICA	WOOD BRUSH	8844	AGED ASH				WRAPPING ALL SIDES OF SOFFITS,SEE DETAILS MATTE FINISH		AMBER VEACH AVEACH@HOODDISTRIBUTION.COM 615.585.6913
PT-2	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 9541	WHITE SNOW				GYP. BD. CEILING		
PT-3	PAINT	SHERWIN WILLIAMS	SEMI-GLOSS	SW 6258	TRICORN BLACK				EXPOSED CEILING, 10'-0" A.F.F. & ABOVE		

MILLWORK / MISC.

CODE	MATERIAL	MANUFACTURER	STYLE	STYLE NO.	COLOR	FINISH	NOTES	IMAGE	CONTACT
BR-1	BRICK	B&F CERAMICS	MASONRY BRICK	O310MO-SAM	OLD STREET		SERVER STATION		LINDSEY CARABIN LINDSEYC@BFCERAMICS.COM 540.286.3000
HW-1	CABINET PULL	RICHELIEU	MODERN METAL PULL	BP1076900	MATTE BLACK		CABINETS		PAMELA HARRIS PHARRIS@RICHELIEU.COM 615.981.1179
HW-2	PURSE HOOK	KOHLER	MODERN	K-23757-BL	MATTE BLACK		SERVER STATION		
PLAM-1	PLASTIC LAMINATE	FORMICA	WOOD BRUSH	8844	AGED ASH	MATTE	BOOTHS		AMBER VEACH AVEACH@HOODDISTRIBUTION.COM 615.585.6913
PLAM-2	PLASTIC LAMINATE	FORMICA	ANTIMICROBIAL	912A	STORM	MATTE	HOST, TRASH, BOOTH TOE KICK		AMBER VEACH AVEACH@HOODDISTRIBUTION.COM 615.585.6913
QTZ-1	QUARTZ	DALTILE	ONE QUARTZ SURFACES	OQ58	ARMOR GREY	POLISHED	SERVER STATION		ABBY FINNEGAN ABBY.FINNEGAN@DALTILE.COM 615.519.9672

MILLWORK / MISC.

CODE	MATERIAL	MANUFACTURER	STYLE	STYLE NO.	COLOR	FINISH	NOTES	IMAGE	CONTACT
QTZ-2	QUARTZ	DALTILE	ONE QUARTZ SURFACES	OQ03	BROADWAY BLACK	POLISHED	HOST, TRASH		ABBY FINNEGAN ABBY.FINNEGAN@DALTILE.COM 615.519.9672
UP-1	UPHOLSTERY	MOMENTUM	LUGANO	09329901	CORDOVAN		BANQUETTE		LORI KING LKING@MOMTEX.COM 615.306.5209
UP-2	UPHOLSTERY	MOMENTUM	VANGUARD	09486794	SEQUOIA		BANQUETTE		LORI KING LKING@MOMTEX.COM 615.306.5209
UP-3	UPHOLSTERY	MOMENTUM	LUGANO	09329978	PORPOISE		BANQUETTE		LORI KING LKING@MOMTEX.COM 615.306.5209
UP-4	UPHOLSTERY	MOMENTUM	VANGUARD	09486838	POLARIS		BANQUETTE		LORI KING LKING@MOMTEX.COM 615.306.5209

ROOM FINISH SCHEDULE

ROOM NO.	NAME	FLOOR FINISH	BASE FINISH	WALL				CEILING		NOTES
				NORTH FINISH	EAST FINISH	SOUTH FINISH	WEST FINISH	MATERIAL	CEILING FINISH	
101	VESTIBULE	LVT-1	WDB-1	PT-1	PT-1	PT-1	PT-1	GYP. BD.	PT-3 1 1	EXP. CEILING TO BE PT-3
102	SOUTH DINING	LVT-1	WDB-1	BR-1/WC-2	WC-2/PT-1	PT-1/WC-2	WC-1/PT-1	EXP./GYP. BD.	PT-3/PT-2/PLAM-1/MTL-1	EXP. CEILING TO BE PT-3
103	NORTH DINING	LVT-1	WDB-1	WC-3	WC-2/PT-1	BR-1	PT-1	EXP./GYP. BD.	PT-3/PT-2/PLAM-1/MTL-1	EXP. CEILING TO BE PT-3
104	CARRY OUT	LVT-1	RB-1	PT-1	PT-1	PT-1	PT-1	ACOUSTICAL CEILING TILE	ACT-1	EPOXY PAINT
105	SERVER STATION	LVT-1/PCT-2	RB-1	--	--	PT-1	CT-1	MTL./GYP. BD.	MTL-2/PLAM-1	
106	WOMEN'S RESTROOM	PCT-1	--	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	GYP. BD.	PT-2	EPOXY PAINT
107	MEN'S RESTROOM	PCT-1	--	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	GYP. BD.	PT-2	EPOXY PAINT
108	OFFICE	EP-1	EP-1	PT-1	PT-1	PT-1	PT-1	ACOUSTICAL CEILING TILE	ACT-1	
109	STAFF RESTROOM	EP-1	EP-1	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	PCT-1/PCT-3/PT-1	ACOUSTICAL CEILING TILE	ACT-1	EPOXY PAINT
110	KITCHEN	EP-1	EP-1	FRP-1	FRP-1	FRP-1	FRP-1	ACOUSTICAL CEILING TILE	ACT-2	
111	RISER	SC	RB-1	PT-1	PT-1	PT-1	PT-1	EXP.	PT-3 1 1	EXP. CEILING TO BE PT-3

P. STUDIO
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OLD GLORY RESTAURANT

TRADEWINDS DR.
PARCEL 33.35
COLUMBIA, TN

WILLIAM M. PARKER REGISTERED ARCHITECT No. 107418 STATE OF TENNESSEE 01/24/2024

ISSUED FOR
- ☐ Schematic Design
- ☐ Design Development
- ☐ 90% Construction Docs
- ■ Construction Documents

REVISIONS
1 ADD #01 01/24/24

PROJECT NUMBER: 23079

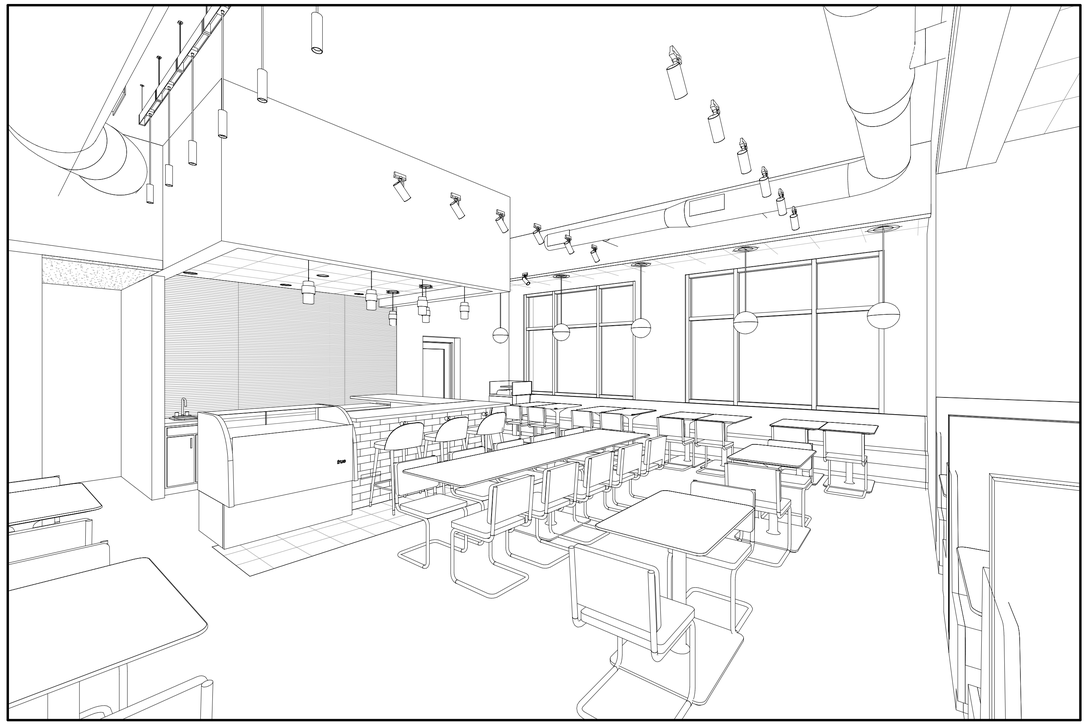
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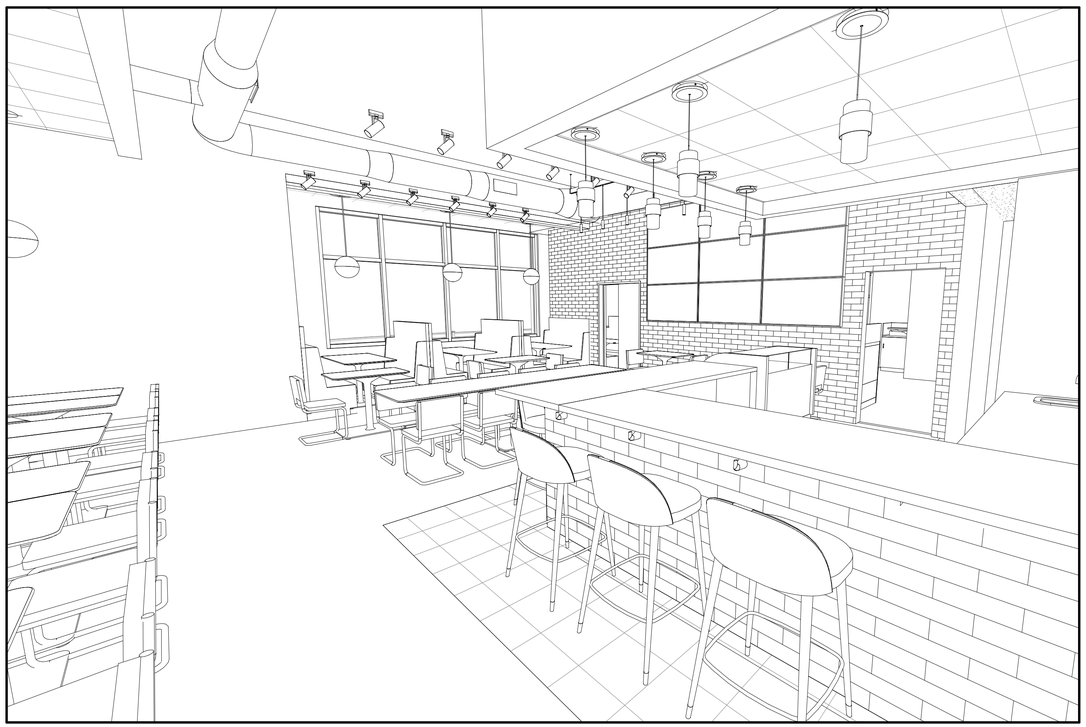
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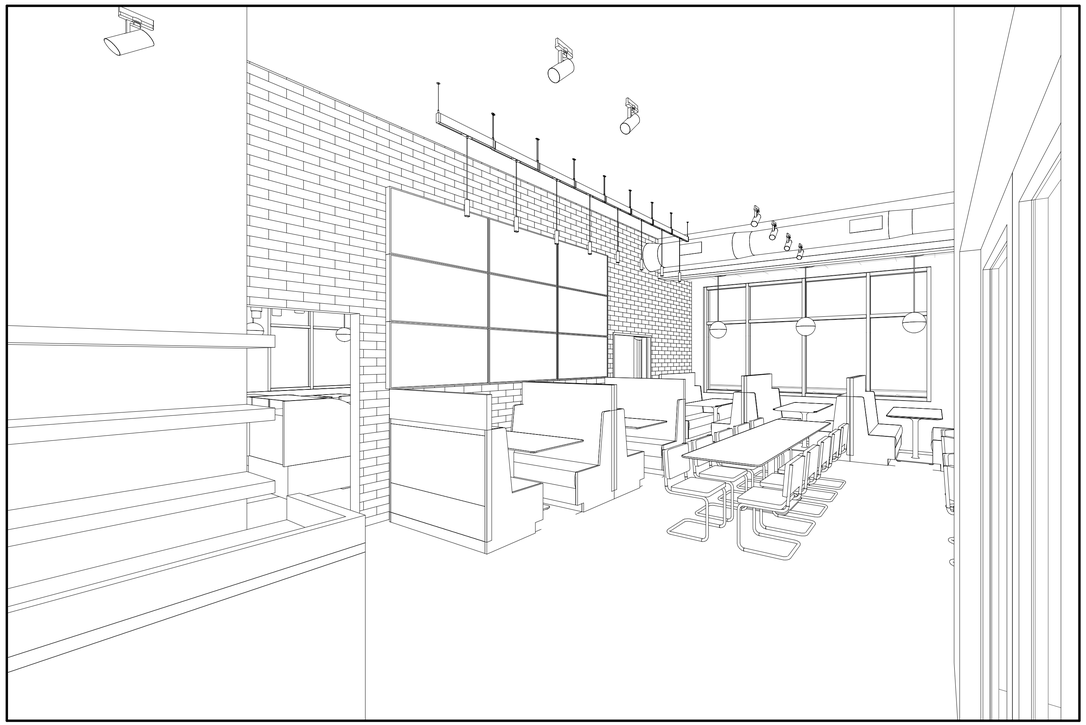
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STATE OF TENNESSEE
12/22/2023

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- ☐ Schematic Design
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REVISIONS

PROJECT NUMBER:
23079

DRAWN BY:
KM

DATE:
12.22.23

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INTERIOR VIEWS

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MECHANICAL LEGEND

150 CFM	SUPPLY/RETURN SLOT DIFFUSER, REFER TO SCHEDULES FOR DIFFUSER SIZING BASED ON AIRFLOW
SB-150	SUPPLY DIFFUSER, TAG INDICATES "RUNOUT SIZE - CFM," REFER TO SCHEDULES FOR RUNOUT SIZES
RB-150	RETURN GRILLE, TAG INDICATES "RUNOUT SIZE - CFM," REFER TO SCHEDULES FOR RUNOUT SIZES
EB-150	EXHAUST GRILLE, TAG INDICATES "RUNOUT SIZE - CFM," REFER TO SCHEDULES FOR RUNOUT SIZES
	ROUND OR HARD DUCT TO/FROM DIFFUSER/GRILLE
	FLEXIBLE DUCT TO/FROM DIFFUSER/GRILLE, MAX. LENGTH 5' - 0" U.N.O.
SB-150	EXPOSED CIRCULAR SUPPLY DIFFUSER
150 CFM	SPIRAL DUCT GRILLE ON BOTTOM OF DUCT, SEE SCHEDULES FOR SIZES
150 CFM	SPIRAL DUCT GRILLE ON SIDE OF DUCT, SEE SCHEDULES FOR SIZES
FD	RECTANGULAR DUCT FIRE DAMPER TO MATCH DUCT SIZE
FD	ROUND DUCT FIRE DAMPER TO MATCH DUCT SIZE
	MANUAL VOLUME DAMPER IN DUCT TO MATCH DUCT SIZE
	FULL RADIUS TURN FOR RECTANGULAR AND ROUND DUCT
	SQUARE ELBOW WITH TURNING VANES FOR RECTANGULAR DUCT
	LOW PRESSURE DUCT BRANCH TAP WITH DAMPER
2" LP	PROPANE, BELOW GRADE
2" LP	PROPANE, ABOVE GRADE
2" CD	MECHANICAL CONDENSATE
AHU-1	EQUIPMENT TAG, REFER TO SCHEDULES
T RTU-1	THERMOSTAT, UNIT SERVED
TS RTU-1	TEMPERATURE SENSOR, UNIT SERVED
H RTU-1	HUMIDISTAT, UNIT SERVED
1	KEYNOTE 1 ON SAME SHEET
S VF-1	SWITCH, UNIT SERVED
	TIE-IN AT THIS APPROXIMATE LOCATION
AFF	ABOVE FINISHED FLOOR
U.N.O.	UNLESS NOTED OTHERWISE
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
OA	OUTSIDE/VENTILATION AIR
MFR	MANUFACTURER

MECHANICAL GENERAL NOTES

A. COORDINATE ALL MECHANICAL EQUIPMENT WITH OTHER TRADES PRIOR TO INSTALLATION. VERIFY EXACT LOCATIONS OF ALL EQUIPMENT WITH THE ARCHITECT AND STRUCTURAL ENGINEER. THE DRAWINGS ARE DIAGRAMATIC BUT DO GIVE REASONABLE INDICATIONS OF THE ARRANGEMENTS OF THE PRINCIPAL APPARATUS AND PIPING, AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. SPACE SHALL BE DETERMINED BY REFERENCE TO THE GENERAL FLOOR PLANS AND BY ACTUAL MEASUREMENTS AT THE BUILDING. WHERE SPACE CONDITIONS APPEAR INADEQUATE THE ARCHITECT SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK

B. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY. WORK SHALL BE PERFORMED AND MATERIALS SHALL BE FURNISHED IF SHOWN ON THE PLANS BUT NOT SPECIFIED OR VICE VERSA; OR IF REASONABLY IMPLIED; OR IF USUALLY INCLUDED; OR IF NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

C. EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER, UNDER THE DIRECTION OF AND TO THE SATISFACTION OF THE ARCHITECTS AND ENGINEERS, WHO WILL INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS.

D. WHERE DISCREPANCIES OCCUR BETWEEN THE PLANS AND THE SPECIFICATIONS, OR WITHIN EITHER DOCUMENT ITSELF, THE ITEM OR ARRANGEMENT OF BETTER QUALITY OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID.

E. THE DRAWINGS SHOW THE VARIOUS PIPING, ELECTRICAL AND DUCT SYSTEMS SCHEMATICALLY. NO ADDED COMPENSATION WILL BE PERMITTED FOR VARIATIONS DUE TO FIELD CONDITIONS. INSTALLATION SHALL FOLLOW DRAWINGS WHERE PRACTICABLE AND NOT BE IN CONFLICT WITH OTHER TRADES INSTALLATION.

F. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND ALL MECHANICAL EQUIPMENT

G. INSTALL ALL DUCT AS HIGH AS POSSIBLE, ALL DUCT SHOWN ABOVE CEILING UNLESS NOTED OTHERWISE

H. ROUGH-IN LOCATIONS FOR ALL WORK SHALL BE BASED ON THE ARCHITECTURAL PLANS

I. COORDINATE FINAL LOCATION OF THERMOSTATS WITH OWNER/ENGINEER, THERMOSTATS SHALL NOT BE PLACED NEAR ANY HEAT-PRODUCING EQUIPMENT

J. REFER TO ARCHITECTURAL AND LIGHTING PLANS FOR FINAL LOCATION OF ALL DIFFUSER/GRILLES

K. COORDINATE ALL DIFFUSERS AND GRILLES WITH OWNER AND ARCHITECT PRIOR TO PURCHASE OR INSTALLATION

L. MAINTAIN 10 FT MINIMUM CLEARANCE BETWEEN AIR INTAKES AND EXHAUST SOURCES OR PLUMBING VENTS

M. MAINTAIN MINIMUM 3 FT BETWEEN EXHAUST SOURCES AND ALL DOORS OR WINDOWS

N. CONTRACTOR SHALL VALIDATE ACTUAL EQUIPMENT PLACEMENT, REFRIGERANT LINE SIZES AND PIPE ROUTING WITH MANUFACTURER DESIGN SOFTWARE AND SUBMIT FOR PRIOR APPROVAL. NOTIFY ENGINEER OF ANY DISCREPANCIES

O. INSTALL ACCESS DOORS FOR ALL FIRE DAMPERS AND MVD'S, RATED WHERE PENETRATING A FIRE BARRIER SYSTEM. REFER TO ARCHITECTURE DRAWINGS

P. INSULATE ALL METAL COLD WATER AND CONDENSATE PIPING WITH CLOSED-CELL ELASTOMERIC 3/4"-THICK PIPE INSULATION

Q. PROVIDE UV PROTECTIVE COATING/JACKET ON ALL CLOSED-CELL PIPE INSULATION WHERE EXPOSED TO SUNLIGHT SUCH AS REFRIGERANT LINES

R. INSTALL FIRE-STOPPING/CAULK FOR ALL PIPING THROUGH FIRE RATED ASSEMBLIES

S. INSTALL FIRE DAMPERS AT ALL RATED ASSEMBLIES, CONTRACTOR TO VERIFY FINAL RATED ASSEMBLIES AND LOCATIONS WITH ARCHITECTURE

T. ALL MATERIALS INSTALLED IN CLOSET SERVING AS A RETURN AIR PLENUM SHALL COMPLY WITH IMC 602.2.1 WHERE MATERIALS WITHIN THE PLENUM SHALL BE NON-COMBUSTIBLE OR BE LISTED AND LABELED AS HAVING A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 OR UL 723

U. ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, ETC. HAS BEEN DESIGNED TO AVOID CROSSING ABOVE ELECTRICAL PANELS. CONTRACTOR TO COORDINATE FINAL ROUTING WITH ELECTRICAL PANEL LOCATIONS AND ENSURE COMPLIANCE WITH IMC AND LOCAL AHJ

V. ANY CHANGES OR INSTALLATIONS, EQUIPMENT SELECTIONS, ETC. MADE BY THE CONTRACTOR THAT ARE DIFFERENT THAN WHAT IS SHOWN IN THESE PLANS MUST BE GIVEN PRIOR APPROVAL BY THE ENGINEER. ENGINEER ASSUMES NO RESPONSIBILITY FOR CHANGES MADE BY THE CONTRACTOR THAT WERE NOT COORDINATED OR SUBMITTED BEFOREHAND

W. INSTALL MANUAL VOLUME DAMPERS AT ALL DUCT RUNOUTS ON ALL SYSTEMS. INSTALL BACKDRAFT DAMPERS FOR ALL OUTSIDE AIR RUNOUTS THAT ORIGINATE FROM A COMMON DUCT SYSTEM SERVING MULTIPLE UNITS.

X. WHERE APPLICABLE IN MULTIFAMILY CONSTRUCTION, CONTRACTOR SHALL IDENTIFY AND TAG CONDENSING UNITS WITH UNIT/APARTMENT SERVED FOR EASE OF FUTURE MAINTENANCE

DESIGN WAS PERFORMED IN ADHERENCE TO IMC 2012, IFGC 2012, IPC 2012, AND IECC 2012

DESIGN CONDITIONS ARE AS FOLLOWS:

ASHRAE 0.4% AMBIENT CONDITIONS - KNOXVILLE, TN

COOLING
92.7 °F OUTDOOR DRY BULB TEMPERATURE
73.9 °F MEAN COINCIDENT WET BULB TEMPERATURE

HEATING
17.1 °F OUTDOOR DRY BULB TEMPERATURE

INDOOR CONDITIONS
75 °F INDOOR DRY BULB TEMPERATURE
50% RELATIVE HUMIDITY

THE BUILDING HVAC SYSTEM HAS BEEN DESIGNED UNDER THE FOLLOWING ASSUMED BUILDING ENVELOPE SPECIFICATIONS. FAILURE TO INSTALL TO THIS LEVEL OF MATERIALS MAY RESULT IN HVAC SYSTEM FAILURE TO PERFORM AS DESIGNED.

GLASS U-VALUE:	0.35
GLASS SHGC:	0.48
WALL INSULATION:	R-19 (R-13+7.5ci)
ROOF INSULATION:	R-30

SECTION 23 05 00 | COMMON REQUIREMENTS FOR HVAC

PART 1 - GENERAL

0.1 COMMON WORK AND COORDINATION

A. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY. WORK SHALL BE PERFORMED AND MATERIALS SHALL BE FURNISHED IF SHOWN ON THE PLANS BUT NOT SPECIFIED OR VICE VERSA; OR IF REASONABLY IMPLIED; OR IF USUALLY INCLUDED; OR IF NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

B. EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER, UNDER THE DIRECTION OF AND TO THE SATISFACTION OF THE ARCHITECTS AND ENGINEERS, WHO WILL INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS.

C. WHERE DISCREPANCIES OCCUR BETWEEN THE PLANS AND THE SPECIFICATIONS, OR WITHIN EITHER DOCUMENT ITSELF, THE ITEM OR ARRANGEMENT OF BETTER QUALITY OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID.

D. THE DRAWINGS SHOW THE VARIOUS PIPING, ELECTRICAL AND DUCT SYSTEMS SCHEMATICALLY. NO ADDED COMPENSATION WILL BE PERMITTED FOR VARIATIONS DUE TO FIELD CONDITIONS. INSTALLATION SHALL FOLLOW DRAWINGS WHERE PRACTICAL AND NOT BE IN CONFLICT WITH THE INSTALLATION OF OTHER TRADES.

E. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE CURRENTLY ADOPTED INTERNATIONAL MECHANICAL CODE AND ALL LOCAL MECHANICAL CODES.

F. CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS. THESE CONTRACT DOCUMENTS (DRAWINGS, PLANS AND SPECIFICATIONS) DESCRIBE THE MECHANICAL WORK FOR THIS PROJECT AND FORM A GUIDE FOR A COMPLETE INSTALLATION. COMPLY WITH APPLICABLE REQUIREMENTS OF RECOGNIZED INDUSTRY ASSOCIATIONS WHICH PROVIDE STANDARDS FOR THE VARIOUS TRADES.

G. SUPERVISE ALL WORK WITH SPECIFICALLY QUALIFIED PEOPLE IN THE VARIOUS DISCIPLINES. VISIT THE SITE AND BE INFORMED OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. RESOLVE INTERFERENCES BETWEEN WORK OF VARIOUS CONTRACTORS PRIOR TO INSTALLATION. NOTIFY GENERAL CONTRACTOR OF SIZE AND LOCATION OF ALL RECESSES AND OPENINGS REQUIRED FOR HVAC WORK. PROVIDE SUBMITTALS FOR APPROVAL ON ALL EQUIPMENT AND DEVICES.

H. CONTRACTOR SHALL AND HEREBY DOES GUARANTEE THAT ALL WORK INSTALLED UNDER THESE DOCUMENTS SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FORM THE DATE OF SUBSTANTIAL USAGE OR FINAL ACCEPTANCE UNLESS A LONGER PERIOD IS NOTED. ALL REFRIGERATION COMPRESSORS TO HAVE A 5 YEAR WARRANTY.

I. DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE CLEAR. CONTRACTOR MUST ENLARGE DUCT DIMENSIONS FOR INTERNALLY LINED DUCT AND COORDINATE ALL ROUTING/PENATRATIONS/ETC TO ACCOUNT FOR INSULATION THICKNESS. THIS IS TYPICALLY ACHIEVED BY ADDING 4" TO EACH DUCT DIMENSION.

J. THE CONTRACTOR SHALL COORDINATE THE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY EQUIPMENT

K. ALL DIMENSIONS, ISOMETRICS, DETAILS, SECTIONS VIEWS, ETC ARE SHOWN FOR CONVEYING DESIGN INTENT. CONTRACTORS ARE RESPONSIBLE FOR PERFORMING ALL FINAL DIMENSIONAL AND EQUIPMENT ORIENTATION WORK TO ACCOMPLISH A FULLY SATISFACTORY SYSTEM PER THESE DOCUMENTS.

PART 2 - PRODUCTS

A. ALL AIR CONDITIONING UNITS SHALL BE TRANE, CARRIER OR MITSUBISHI.
B. ALL FANS SHALL BE GREENHECK OR COOK.
C. ALL AIR DISTRIBUTION SHALL BE METALAIRE, PRICE OR TITUS

PART 3 - EXECUTION

A. PROVIDE FLEXIBLE CONNECTIONS FOR ALL HVAC UNIT DUCT CONNECTIONS.

B. PROVIDE RETURN AIR DUCT SMOKE DETECTORS FOR ALL SYSTEMS 2,000 CFM (OR 5 TONS) OR GREATER. PROVIDE SUPPLY AIR DUCT SMOKE DETECTORS WHERE SHOWN. PROVIDE REMOTE SUPERVISORY INDICATION FOR ALL DUCT SMOKE DETECTORS.

C. ALL DUCTWORK SHALL BE SHEETMETAL IN ACCORDANCE WITH THE LATEST SMACNA HVAC DUCT, IMC AND LOCAL CODES.

D. ALL ROUND DUCT ABOVE CEILINGS MAY BE SNAPLOCK TO 14" ROUND. 16" ROUND AND ABOVE TO BE SPIRAL. EXPOSED DUCT OF ANY SIZE, THAT IS NOT DOUBLE WALL, TO BE SPIRAL.

E. PROVIDE HANGERS, BRACES, INTERMEDIATE FRAMING SUPPORTS, ANCHORS AND MISCELLANEOUS DEVICES REQUIRED FOR DUCT AND EQUIPMENT INSTALLATIONS PER MANUFACTURER AND CODE REQUIREMENTS.

F. ALL REFRIGERANT PIPING TO BE TYPE "L" COPPER, SILVER SOLDER JOINTS AND INSTALL 1" THICK AP ARMAFLEX INSULATION FOR PIPE SIZES 1-1/2" AND SMALLER, INSTALL 1-1/2" THICK AP ARMAFLEX INSULATION FOR PIPE SIZES 2" AND LARGER.

G. MOISTURE CONDENSATE PIPING TO BE PVC SCH 40 WITH 1/2" AP ARMAFLEX INSULATION FOR INSIDE INSTALLATONS. SLOPE CONDENSATE PIPING AT A MINIMUM OF 1/8" PER FOOT OF HORIZONTAL RUN.

H. FINAL LOCATION OF DIFFUSERS AND GRILLES SHALL BE IN ACCORDANCE WITH THE ARCHITECT'S REFLECTED CEILING PLAN.

I. ALL DUCT AND PIPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES (I.E. FLOORS, WALLS, CEILING, ETC.) SHALL BE INSTALLED WITH A UL LISTED FIRESTOP SYSTEM AND PER CODE REQUIREMENTS.

J. LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS AND VALVING.

K. MAINTAIN 10 FEET BETWEEN ALL OUTSIDE AIR INTAKES AND ANY EXHAUST OUTLETS AND PLUMBING VENTS.

L. RUN ALL DUCTWORK LEVEL UNLESS OTHERWISE NOTED. PROVIDE AIRTIGHT ACCESS DOORS ADJACENT TO ALL FIRE DAMPERS, SMOKE DAMPERS, AUTOMATIC DAMPERS AND TEMPERATURE CONTROL DEVICES.

M. ALL MAJOR EQUIPMENT TO BE LABELED WITH NAME PLATES, RIGID PLASTIC BAKELITE WITH MACHINE ENGRAVED 1" HIGH LETTERING. ENGRAVED LETTERING TO BE A PERMANENT COLORING MATERIAL WHICH CONTRASTS WITH TAG COLOR.

N. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER DISSIMILAR METALS ARE JOINED. ISOLATE ALL COPPER FROM STEEL SUPPORTS WITH PLASTIC SEPARATORS DESIGNED FOR PIPE ISOLATION.

O. ALL RECTANGULAR BRANCH DUCTS TO HAVE 45° TAPS IN THE DIRECTION OF FLOW FROM THE MAIN DUCT.

P. DIFFUSER/GRILLE TAPS TO INCLUDE VOLUME DAMPERS AT MAIN DUCT.

Q. ALL ROUND TAPS SHALL BE MADE USING SPIN-IN METAL COLLARS WITH DAMPER OR STICK-ON AIRTIGHT COLLARS WITH NEOPRENE GASKET.

R. WHERE THERE IS NO ACCESS TO DAMPERS, END DEVICES MUST HAVE AN OPPOSED BLADE DAMPER FOR BALANCING.

S. INSTALL BALANCING DAMPERS WHERE SHOWN AND ALSO WHERE REQUIRED FOR PROPER AIR DISTRIBUTION AND BALANCING.

T. SEAL ALL SHEETMETAL DUCT SEAMS AND JOINTS WITH HARDCAST WATER BASED SEALANT AND/OR HARDCAST TAPE LISTED AND LABELED IN ACCORDANCE WITH UL 181A/B. APPLY WHEN THE ENVIRONMENT IS BETWEEN 50°F TO 95°F. DUCT TAPE IS NOT ACCEPTABLE, INCLUDING FOR VAPOR BARRIER SEAMS.

U. THE BACKS OF ALL SUPPLY DIFFUSERS SHALL BE INSULATED AND TAPED COMPLETELY WITH NO EXPOSED METAL, WITH INSULATION THICKNESS OF DUCT ABOVE. INSULATE THE BACKS OF RETURN GRILLE CONNECTIONS IF RETURN DUCT IS INDICATED TO BE INSULATED.

V. MECHANICAL CONTRACTOR TO PROVIDE AND MOUNT THERMOSTATS, CONTROL DEVICES AND TERMINATE LOW VOLTAGE CONTROL WIRING.

W. LOCATE ADJUSTABLE ROOM THERMOSTATS AND CONTROL DEVICES 4'-0" ABOVE FINISHED FLOOR.

X. WIRE ROUTED IN CEILING RETURN AIR PLENUMS TO BE PLENUM RATED TYPE OR RUN IN RATED METAL CONDUIT.

Y. PROVIDE HANGERS, BRACES, INTERMEDIATE FRAMING SUPPORTS, ANCHORS AND MISCELLANEOUS DEVICES REQUIRED FOR PIPE AND EQUIPMENT INSTALLATIONS PER MANUFACTURER AND CODE REQUIREMENTS.

SECTION 23 05 29 | HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT

PART 1 - GENERAL

1. SECTION REQUIREMENTS
   - A. SUBMITTALS:
     1. PRODUCT DATA:
        - FOR EACH TYPE OF PRODUCT INDICATED.
     2. HANGERS AND SUPPORTS:
        - SHOP DRAWINGS: SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER.
     3. WELDING CERTIFICATES.
        - STRUCTURAL STEEL WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE - STEEL."
     4. PIPE WELDING QUALIFICATIONS:
        - QUALIFY PROCEDURES AND OPERATORS ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE.

PART 2 - PRODUCTS

1. PERFORMANCE REQUIREMENTS
   - A. HANGERS AND SUPPORTS FOR PLUMBING PIPING EQUIPMENT:
     1. STRUCTURAL PERFORMANCE: HANGERS AND SUPPORTS SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED ACCORDING TO ASCE/SEI 7.
     2. DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS AND SYSTEM CONTENTS.
     3. DESIGN EQUIPMENT SUPPORTS CAPABLE OF SUPPORTING COMBINED OPERATING WEIGHT OF SUPPORTED EQUIPMENT AND CONNECTED SYSTEMS AND COMPONENTS.
     4. DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT, AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.
2. HANGERS AND SUPPORTS FOR HVAC
   - A. CARBON-STEEL PIPE HANGERS AND SUPPORTS:
     1. DESCRIPTION: MSS SP-58, TYPES 1 THROUGH 58, FACTORY-FABRICATED COMPONENTS.
     2. GALVANIZED METALLIC COATINGS: PRE-GALVANIZED OR HOT DIPPED.
     3. NON-METALLIC COATINGS: PLASTIC COATING, JACKET, OR LINER.
     4. PADDED HANGERS: HANGER WITH FIBERGLASS OR OTHER PIPE INSULATION PAD OR CUSHION TO SUPPORT BEARING SURFACE OF PIPING.
     5. HANGER RODS: CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF CARBON STEEL.
   - B. COPPER PIPE HANGERS:
     1. DESCRIPTION: MSS SP-58, TYPES 1 THROUGH 58, COPPER-COATED STEEL, FACTORY-FABRICATED COMPONENTS.
     2. HANGER RODS: CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF COPPER-COATED STEEL.
3. FASTENER SYSTEMS:
   - A. VERIFY SUITABILITY OF FASTENERS IN THIS ARTICLE FOR USE IN LIGHTWEIGHT CONCRETE OR CONCRETE SLABS LESS THAN 4 INCHES (100 MM) THICK.
   - B. POWDER-ACTUATED FASTENERS: THREADED-STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
   - C. MECHANICAL EXPANSION ANCHORS: INSERT-WEDGE-TYPE, ZINC-COATED ANCHORS, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE, WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
4. MISCELLANEOUS MATERIALS:
   - A. STRUCTURAL STEEL: ASTM A36/A36M, CARBON-STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZED.
   - B. GROUT: ASTM C1107, FACTORY-MIXED AND PACKAGED, DRY, HYDRAULIC-CEMENT, NON-SHRINK AND NON-METALLIC GROUT; SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.
     - A. PROPERTIES: NON-STAINING, NON-CORROSIVE, AND NON-GASEOUS.
     - B. DESIGN MIX: 5,000-PSI (34.5-MPA), 28-DAY COMPRESSIVE STRENGTH.

PART 3 - EXECUTION

0.1 GENERAL PIPING INSTALLATIONS

A. INSTALL PIPING FREE OF SAGS AND BENDS.
B. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

0.2 HANGERS AND SUPPORTS

A. COMPLY WITH MSS SP-69 AND MSS SP-89. INSTALL BUILDING ATTACHMENTS WITHIN CONCRETE OR TO STRUCTURAL STEEL.
B. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL AND SEISMIC MOVEMENT OF PIPING SYSTEMS.
C. INSTALL POWDER-ACTUATED FASTENERS AND MECHANICAL EXPANSION ANCHORS IN CONCRETE AFTER CONCRETE IS CURED. DO NOT USE IN LIGHTWEIGHT CONCRETE OR IN SLABS LESS THAN 4 INCHES (100 MM) THICK.
D. LOAD DISTRIBUTION: INSTALL HANGERS AND SUPPORTS SO PIPING LIVE AND DEAD LOADING AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT.
E. HORIZONTAL PIPING HANGERS AND SUPPORTS: UNLESS OTHERWISE INDICATED AND EXCEPT AS SPECIFIED IN PIPING SYSTEM SPECIFICATION SECTIONS, INSTALL THE FOLLOWING TYPES:
   1. ADJUSTABLE STEEL CLEVIS HANGERS (MSS TYPE 1): FOR SUSPENSION OF NON-INSULATED OR INSULATED STATIONARY PIPES, NPS 1/2 TO NPS 30 (DN 15 TO DN 750).
   2. PIPE HANGERS (MSS TYPE 5): FOR SUSPENSION OF PIPES, NPS 1/2 TO NPS 4 (DN 15 TO DN 100) TO ALLOW OFF-CENTER CLOSURE FOR HANGER INSTALLATION BEFORE PIPE ERECTION.
   3. ADJUSTABLE STEEL BAND HANGERS (MSS TYPE 7): FOR SUSPENSION OF NON-INSULATED STATIONARY PIPES, NPS 1/2 TO NPS 8 (DN 15 TO DN 200).
   4. ADJUSTABLE BAND HANGERS (MSS TYPE 9): FOR SUSPENSION OF NON-INSULATED STATIONARY PIPES, NPS 1/2 TO NPS 8 (DN 15 TO DN 200).
   5. ADJUSTABLE SWIVEL-RING BAND HANGERS (MSS TYPE 10): FOR SUSPENSION OF NON-INSULATED STATIONARY PIPES, NPS 1/2 TO NPS 2 (DN 15 TO DN 50).
F. VERTICAL-PIPING CLAMPS: UNLESS OTHERWISE INDICATED AND EXCEPT AS SPECIFIED IN PIPING SYSTEM SPECIFICATION SECTIONS, INSTALL THE FOLLOWING TYPES:
   1. EXTENSION PIPE OR RISER CLAMPS (MSS TYPE 8): FOR SUPPORT OF PIPE RISERS, NPS 3/4 TO NPS 20 (DN 20 TO DN 500).
   2. CARBON OR ALLOY-STEEL RISER CLAMPS (MSS TYPE 42): FOR SUPPORT OF PIPE RISERS, NPS 3/4 TO NPS 20 (DN 20 TO DN 500), IF LONGER ENDS ARE REQUIRED FOR RISER CLAMPS.

0.3 HANGER SPACING

NOTE: VERIFY ACTUAL SUPPORTED LOADS FOR HANGER SIZES AND SPACING. CONSULT STRUCTURAL ENGINEER. SPACING AND SIZES IN SUBPARAGRAPHS BELOW ARE FROM THE 2000 ASHRAE HANDBOOK - "HVAC SYSTEMS AND EQUIPMENT."

A. INSTALL HANGERS FOR STEEL PIPING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:

PIPE SIZE	MAXIMUM SPAN	MINIMUM ROD SIZE
NPS 3/4" (DN 20)	7 FT (2.1 M)	1/4" (6.4 MM)
NPS 1" (DN 25)	7 FT (2.1 M)	1/4" (6.4 MM)
NPS 1-1/2" (DN 40)	9 FT (2.7 M)	3/8" (10 MM)
NPS 2" (DN 50)	10 FT (3 M)	3/8" (10 MM)
NPS 3" (DN 80)	12 FT (3.7 M)	3/8" (10 MM)
NPS 4" (DN 100)	14 FT (4.3 M)	1/2" (13 MM)

B. INSTALL HANGERS FOR DRAWN-TEMPER COPPER PIPING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:

PIPE SIZE	MAXIMUM SPAN	MINIMUM ROD SIZE
NPS 3/4" (DN 20)	5 FT (1.5 M)	1/4" (6.4 MM)
NPS 1" (DN 25)	6 FT (1.8 M)	1/4" (6.4 MM)
NPS 1-1/2" (DN 40)	8 FT (2.4 M)	3/8" (10 MM)
NPS 2" (DN 50)	8 FT (2.4 M)	3/8" (10 MM)
NPS 2-1/2" (DN 65)	9 FT (2.7 M)	3/8" (10 MM)
NPS 3" (DN 80)	10 FT (3 M)	3/8" (10 MM)

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ISSUED FOR

- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS

PROJECT NUMBER: 23079

DRAWN BY: BR

DATE: 12.22.2023

DRAWING MECHANICAL SPECS AND LEGEND

M001

C. INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:

PIPE SIZE	MAXIMUM SPAN	MINIMUM ROD SIZE
NPS 1/2" (DN 15)	5 FT (1.5 M)	1/4" (6.4 MM)
NPS 5/8" (DN 18)	5 FT (1.5 M)	1/4" (6.4 MM)
NPS 1" (DN 25)	6 FT (1.8 M)	1/4" (6.4 MM)
NPS 1-1/4" (DN 32)	8 FT (2.4 M)	3/8" (9.5 MM)
NPS 1-1/2" (DN 40)	8 FT (2.4 M)	3/8" (9.5 MM)
NPS 2" (DN 50)	8 FT (2.4 M)	3/8" (9.5 MM)
NPS 2-1/2" (DN 65)	9 FT (2.7 M)	3/8" (9.5 MM)
NPS 3" (DN 80)	10 FT (3 M)	3/8" (9.5 MM)
NPS 4" (DN 100)	12 FT (3.7 M)	1/2" (13 MM)

D. PLASTIC PIPING HANGER SPACING: SPACE HANGERS ACCORDING TO THE FOLLOWING AND PIPE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SERVICE CONDITIONS. WHERE CONFLICTS MAY ARIRSE THE MOST STRINGENT (SMALLER) SPAN SHALL BE USED. AVOID POINT LOADING. SPACE AND INSTALL HANGERS WITH THE FEWEST PRACTICAL RIGID ANCHOR POINTS.
   A. FOR ALL PVC, CPVC; ABS: MAXIMUM SPAN, 4 FEET.
   B. FOR ALL PEX: MAXIMUM SPAN, 32 INCHES
E. SUPPORT VERTICAL RUNS AT ROOF, AT EACH FLOOR, AND AT 10 FOOT (3 M) INTERVALS BETWEEN FLOORS. INSTALL A MID-STORY GUIDE FOR PEX SIZED 2" AND SMALLER.

SECTION 23 05 93 | TESTING, ADJUSTING, AND BALANCING ("TAB") FOR HVAC

PART 1 - GENERAL

1. SECTION REQUIREMENTS
   A. SUBMITTALS:
      1. CERTIFIED TAB REPORTS.
      2. DOCUMENTATION OF WORK PERFORMED PER ASHRAE 62.1, SECTION 7.2.2 - "AIR BALANCING."
      3. DOCUMENTATION OF WORK PERFORMED PER ASHRAE/IESNA 90.1, SECTION 6.7.2.3 - "SYSTEM BALANCING."
   B. TAB FIRM QUALIFICATIONS:
      1. TAB IS TO BE PERFORMED BY AN INDEPENDENT CERTIFIED FIRM, SEPARATE FROM THE INSTALLING CONTRACTOR. TAB FIRM CONTRACT TO BE CARRIED BY GENERAL CONTRACTOR OR OWNER.
      2. NEBB CERTIFIED.
   C. TAB REPORT FORMS: STANDARD TAB CONTRACTOR'S FORMS APPROVED BY ENGINEER
   D. PERFORM TAB AFTER LEAKAGE AND PRESSURE TESTS ON AIR AND WATER DISTRIBUTION SYSTEMS HAVE BEEN SATISFACTORILY COMPLETED.
   E. EXAMINE HVAC EQUIPMENT AND FILTERS AND VERIFY THAT BEARINGS ARE GREASED, BELTS ARE ALIGNED AND TIGHT, AND EQUIPMENT WITH FUNCTIONING CONTROLS IS READY FOR OPERATION.
   F. EXAMINE TERMINAL UNITS, SUCH AS VARIABLE-AIR-VOLUME BOXES, AND VERIFY THAT THEY ARE ACCESSIBLE AND THEIR CONTROLS ARE CONNECTED AND FUNCTIONING.
   G. EXAMINE AUTOMATIC TEMPERATURE SYSTEM COMPONENTS TO VERIFY THE FOLLOWING:
      1. DAMPERS, VALVES, AND OTHER CONTROLLED DEVICES ARE OPERATED BY THE INTENDED CONTROLLER.
      2. DAMPERS AND VALVES ARE IN THE POSITION INDICATED BY THE CONTROLLER.
      3. INTEGRITY OF DAMPERS AND VALVES FOR FREE AND FULL OPERATION AND FOR TIGHTNESS OF FULLY CLOSED AND FULLY OPEN POSITIONS. THIS INCLUDES DAMPERS IN MULTI-ZONE UNITS, MIXING BOXES, AND VARIABLE-AIR-VOLUME TERMINALS.
      4. AUTOMATIC MODULATING AND SHUTOFF VALVES, INCLUDING TWO-WAY VALVES AND THREE-WAY MIXING AND DIVERTING VALVES, ARE PROPERLY CONNECTED.
      5. THERMOSTATS AND HUMIDISTATS ARE LOCATED TO AVOID ADVERSE EFFECTS OF SUNLIGHT, DRAFTS, AND HOT OR COLD WALLS.
      6. SENSORS ARE LOCATED TO SENSE ONLY THE INTENDED CONDITIONS.
      7. SEQUENCE OF OPERATION FOR CONTROL MODES IS ACCORDING TO THE CONTRACT DOCUMENTS.
      8. CONTROLLER SET POINTS ARE SET AT INDICATED VALUES.
      9. INTERLOCKED SYSTEMS ARE OPERATING.
      10. CHANGEOVER FROM HEATING TO COOLING MODE OCCURS ACCORDING TO INDICATED VALUES.
   H. REPORT DEFICIENCIES DISCOVERED BEFORE AND DURING PERFORMANCE OF TEST AND BALANCE PROCEDURES.

0.2 GENERAL PROCEDURES FOR TESTING AND BALANCING

ASHRAE 62.1-2004 REQUIRES THAT VENTILATION SYSTEMS BE BALANCED ACCORDING TO ASHRAE 111, SMACNA'S "HVAC SYSTEMS - TESTING, ADJUSTING, AND BALANCING," OR EQUIVALENT AT LEAST TO EXTENT NECESSARY TO VERIFY COMPLIANCE WITH THE STANDARD.

A. PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S "NATIONAL STANDARDS FOR TOTAL SYSTEM BALANCE" AND IN THIS SECTION.
B. CUT INSULATION, DUCTS, PIPES, AND EQUIPMENT CABINETS FOR INSTALLATION OF TEST PROBES TO THE MINIMUM EXTENT NECESSARY FOR TAB PROCEDURES. AFTER TESTING AND BALANCING, PATCH PROBE HOLES IN DUCTS WITH SAME MATERIAL AND THICKNESS AS USED TO CONSTRUCT DUCTS. INSTALL AND JOIN NEW INSULATION THAT MATCHES REMOVED MATERIALS. RESTORE INSULATION, COVERINGS, VAPOR BARRIER, AND FINISH.
C. MARK EQUIPMENT AND BALANCING DEVICES, INCLUDING DAMPER-CONTROL POSITIONS, VALVE POSITION INDICATORS, FAN-SPEED CONTROL LEVERS, AND SIMILAR CONTROLS AND DEVICES, WITH PAINT OR OTHER SUITABLE, PERMANENT IDENTIFICATION MATERIAL TO SHOW FINAL SETTINGS.
D. TAKE AND REPORT TESTING AND BALANCING MEASUREMENTS IN INCH-POUND (IP) UNITS.

0.3 GENERAL PROCEDURES FOR BALANCING AIR SYSTEMS

A. PREPARE SCHEMATIC DIAGRAMS OF SYSTEMS' "AS-BUILT" DUCT LAYOUTS.
B. FOR VARIABLE-AIR-VOLUME SYSTEMS, DEVELOP A PLAN TO SIMULATE DIVERSITY.
C. DETERMINE THE BEST LOCATIONS IN MAIN AND BRANCH DUCTS FOR ACCURATE DUCT AIRFLOW MEASUREMENTS.
D. VERIFY THAT MOTOR STARTERS ARE EQUIPPED WITH PROPERLY SIZED THERMAL PROTECTION.
E. CHECK FOR AIRFLOW BLOCKAGES.
F. CHECK CONDENSATE DRAINS FOR PROPER CONNECTIONS AND FUNCTIONING.
G. CHECK FOR PROPER SEALING OF AIR-HANDLING UNIT COMPONENTS.
H. CHECK FOR PROPER SEALING OF AIR DUCT SYSTEM.

0.4 TOLERANCES

A. SET HVAC SYSTEM AIRFLOW AND WATER FLOW RATES WITHIN THE FOLLOWING TOLERANCES:
   1. SUPPLY, RETURN, AND EXHAUST FANS AND EQUIPMENT WITH FANS: PLUS OR MINUS 10%.
   2. AIR OUTLETS AND INLETS: PLUS OR MINUS 10%.
   3. HEATING WATER FLOW RATE: PLUS OR MINUS 10%.
   4. COOLING WATER FLOW RATE: PLUS OR MINUS 10%.

SECTION 23 07 00 | HVAC INSULATION

PART 1 - GENERAL

0.1 SECTION REQUIREMENTS

A. SUBMITTALS:
   1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
   2. FOR ADHESIVES AND SEALANTS, DOCUMENTATION INCLUDING PRINTED STATEMENT OF VOC CONTENT.
B. QUALITY ASSURANCE: LABELED WITH MAXIMUM FLAME-SPREAD INDEX OF 25 AND MAXIMUM SMOKE-DEVELOPED INDEX OF 50 ACCORDING TO ASTM E 84.

PART 2 - PRODUCTS

0.1 PERFORMANCE REQUIREMENTS

A. SURFACE-BURNING CHARACTERISTICS:
   1. INDOOR INSULATION AND RELATED MATERIALS: TO BE FACTORY-LABELED DESIGNATING MAXIMUM FLAME-SPREAD INDEX OF 25 OR LESS AND SMOKE-DEVELOPED INDEX OF 50 OR LESS ACCORDING TO ASTM E 84.
   2. OUTDOOR INSULATION AND RELATED MATERIALS: TO BE FACTORY LABELED DESIGNATING MAXIMUM FLAME-SPREAD INDEX OF 75 OR LESS AND SMOKE-DEVELOPED INDEX OF 150 OR LESS ACCORDING TO ASTM E 84.

0.2 INSULATION MATERIALS

A. FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS.
B. MATERIALS: COMPLY WITH ASTM C 534, TYPE I FOR TUBULAR MATERIALS AND TYPE II FOR SHEET MATERIALS.
C. MINERAL-FIBER BLANKET INSULATION: COMPLY WITH ASTM C 553, TYPE II AND ASTM C 1290, TYPE I
D. MINERAL-FIBER BOARD INSULATION: COMPLY WITH ASTM C 612, TYPE IA OR TYPE IB. FOR DUCT AND PLENUM APPLICATIONS, PROVIDE INSULATION WITH FACTORY-APPLIED ASJ JACKET.
E. MINERAL-FIBER, PREFORMED PIPE INSULATION: COMPLY WITH ASTM C 547, TYPE I, GRADE A WITH FACTORY-APPLIED ASJ.
F. MINERAL-FIBER PIPE AND TANK INSULATION: COMPLYING WITH ASTM C 1393, TYPE II OR TYPE IIIA, CATEGORY 2, OR WITH PROPERTIES SIMILAR TO ASTM C 612, TYPE IB; HAVING FACTORY-APPLIED ASJ OR FSK JACKET. NOMINAL DENSITY IS 2.5 LB/CU. FT. (40 KG/CU. M) OR MORE. THERMAL CONDUCTIVITY (K-VALUE) AT 100°F (55°C) IS 0.29 BTU • IN./H • SQ. FT. • °F (0.042 W/M • K) OR LESS.
G. POLYOLEFIN INSULATION: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC INSULATION. COMPLY WITH ASTM C 534 OR ASTM C 1427, TYPE I, GRADE 1 FOR TUBULAR MATERIALS AND TYPE II, GRADE 1 FOR SHEET MATERIALS.
H. FLEXIBLE ELASTOMERIC AND POLYOLEFIN ADHESIVE: COMPLY WITH MIL-A-24179A, TYPE II, CLASS I.
   1. FOR INDOOR APPLICATIONS, ADHESIVE SHALL HAVE A VOC CONTENT OF 50 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
I. MINERAL-FIBER ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A.
   A. FOR INDOOR APPLICATIONS, ADHESIVE SHALL HAVE A VOC CONTENT OF 80 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
J. VAPOR-BARRIER MASTIC: WATER BASED; SUITABLE FOR INDOOR AND OUTDOOR USE ON BELOW AMBIENT SERVICES.
   1. WATER-VAPOR PERMEANCE: ASTM E96/E96M, PROCEDURE B, 0.013 PERM (0.009 METRIC PERM) AT 43-MIL (1.09-MM) DRY FILM THICKNESS.
   2. SOLIDS CONTENT: ASTM D 1644, 58 PERCENT BY VOLUME AND 70 PERCENT BY WEIGHT.
K. FACTORY-APPLIED JACKETS: WHEN FACTORY-APPLIED JACKETS ARE INDICATED, COMPLY WITH THE FOLLOWING:
   1. ASJ: WHITE, KRAFT-PAPER, FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING; COMPLYING WITH ASTM C 1136, TYPE I.
   2. FSK JACKET: ALUMINUM-FOIL, FIBERGLASS-REINFORCED SCRIM WITH KRAFT-PAPER BACKING; COMPLYING WITH ASTM C 1136, TYPE II.
L. ASJ TAPE: WHITE VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE, COMPLYING WITH ASTM C 1136.
M. FSK TAPE: FOIL-FACE, VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE; COMPLYING WITH ASTM C 1136.

PART 3 - EXECUTION

0.1 INSULATION INSTALLATION

A. COMPLY WITH REQUIREMENTS OF THE MIDWEST INSULATION CONTRACTORS ASSOCIATION'S "NATIONAL COMMERCIAL & INDUSTRIAL INSULATION STANDARDS" FOR INSULATION INSTALLATION ON PIPES AND EQUIPMENT.

INSULATION INSTALLATION AT INTERIOR WALL AND PARTITION PENETRATIONS (THAT ARE NOT FIRE RATED): INSTALL INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS.
A. INSULATION INSTALLATION AT FIRE-RATED WALL, PARTITION, AND FLOOR PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS. SEAL PENETRATIONS. COMPLY WITH REQUIREMENTS OF ALL FIRE RATED SYSTEMS FROM HILTI AND STI PRODUCT MANUFACTURERS.
B. FLEXIBLE ELASTOMERIC INSULATION INSTALLATION:
   1. SEAL LONGITUDINAL SEAMS AND END JOINTS WITH ADHESIVE TO ELIMINATE OPENINGS IN INSULATION THAT ALLOW PASSAGE OF AIR TO SURFACE BEING INSULATED.
   2. INSULATION INSTALLATION ON PIPE FITTINGS AND ELBOWS: INSTALL MITERED SECTIONS OF PIPE INSULATION. SECURE INSULATION MATERIALS AND SEAL SEAMS WITH ADHESIVE TO ELIMINATE OPENINGS IN INSULATION THAT ALLOW PASSAGE OF AIR TO SURFACE BEING INSULATED.
C. MINERAL-FIBER INSULATION INSTALLATION:
   1. INSULATION INSTALLATION ON STRAIGHT PIPES AND TUBES: WHERE VAPOR BARRIERS ARE INDICATED, SEAL LONGITUDINAL SEAMS, END JOINTS, AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.
   2. FOR INSULATION WITH FACTORY-APPLIED JACKETS ON ABOVE AMBIENT SURFACES, SECURE LAPS WITH OUTWARD CLINCHED STAPLES AT 6 INCHES (150 MM) O.C.
   3. FOR INSULATION WITH FACTORY-APPLIED JACKETS ON BELOW AMBIENT SURFACES, DO NOT STAPLE LONGITUDINAL TABS BUT SECURE TABS WITH ADDITIONAL ADHESIVE AS RECOMMENDED BY INSULATION MATERIAL MANUFACTURER AND SEAL WITH VAPOR-BARRIER MASTIC AND FLASHING SEALANT.
   4. BLANKET AND BOARD INSULATION INSTALLATION ON DUCTS AND PLENUMS: SECURE WITH ADHESIVE AND INSULATION PINS.
   5. FOR DUCTS AND PLENUMS WITH SURFACE TEMPERATURES BELOW AMBIENT, INSTALL A CONTINUOUS, UNBROKEN VAPOR BARRIER.
D. PLENUMS AND DUCTS REQUIRING INSULATION:
   1. CONCEALED AND EXPOSED SUPPLY AND OUTDOOR AIR.
   2. CONCEALED AND EXPOSED RETURN AIR LOCATED IN NON-CONDITIONED SPACE.
   3. CONCEALED AND EXPOSED EXHAUST BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR.
E. PLENUMS AND DUCTS NOT INSULATED:
   1. METAL DUCTS WITH DUCT LINER.
   2. FACTORY-INSULATED PLENUMS AND CASINGS.
   3. FLEXIBLE CONNECTORS.
   4. VIBRATION-CONTROL DEVICES.
   5. FACTORY-INSULATED ACCESS PANELS AND DOORS.
F. PIPING NOT INSULATED: UNLESS OTHERWISE INDICATED, DO NOT INSTALL INSULATION ON THE FOLLOWING:
   1. DRAINAGE PIPING LOCATED IN CRAWLSPACES.
   2. UNDERGROUND PIPING.
   3. CHROME-PLATED PIPES AND FITTINGS UNLESS THERE IS A POTENTIAL FOR PERSONNEL INJURY.

0.2 DUCT AND PLENUM INSULATION SCHEDULE

RETAIN "ONE OF" OPTION IN PARAGRAPHS IN THIS ARTICLE TO ALLOW CONTRACTOR TO SELECT PIPING MATERIALS FROM THOSE RETAINED.

A. CONCEALED DUCT INSULATION LOCATED INSIDE CONDITIONED ENVELOPES SHALL BE ONE OF THE FOLLOWING:
   1. FLEXIBLE ELASTOMERIC: 1 INCH (25 MM)
   2. MINERAL-FIBER BLANKET: 2 INCHES (50 MM) THICK AND 0.75-LB/CU. FT. (12-KG/CU. M) NOMINAL DENSITY.
   3. MINERAL-FIBER BOARD: 2 INCHES (50 MM) THICK AND 3-LB/CU. FT. (48-KG/CU. M) NOMINAL DENSITY.
B. DUCT INSULATION LOCATED IN UNCONDITIONED SPACES SUCH AS ATTICS OR CRAWL SPACES SHALL BE ONE OF THE FOLLOWING:
   1. FLEXIBLE ELASTOMERIC: 1.5 INCH (25 MM)
   2. MINERAL-FIBER BLANKET: 3 INCHES (75 MM) THICK AND 0.75-LB/CU. FT. (12-KG/CU. M) NOMINAL DENSITY.
   3. MINERAL-FIBER BOARD: 3 INCHES (75 MM) AND 3-LB/CU. FT. (48-KG/CU M) NOMINAL DENSITY.

SECTION 23 31 00 | HVAC DUCTS

PART 1 - GENERAL

0.1 SECTION REQUIREMENTS

A. SUBMITTALS:
   1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
   2. DOCUMENTATION INDICATING THAT DUCT SYSTEMS AND ACCESSORIES COMPLY WITH ASHRAE 62.1, SECTION 5 - "SYSTEMS AND EQUIPMENT."
   3. DOCUMENTATION INDICATING THAT DUCT SYSTEMS COMPLY WITH ASHRAE/IESNA 90.1, SECTION 6 - "HEATING, VENTILATING, AND AIR CONDITIONING" AND SECTION 6.4.4 - "HVAC SYSTEM CONSTRUCTION AND INSULATION."
   4. DOCUMENTATION OF WORK PERFORMED FOR COMPLIANCE WITH ASHRAE 62.1, SECTION 7.2.4 - "VENTILATION SYSTEM START-UP."
   5. FOR ADHESIVES AND SEALANTS, DOCUMENTATION INCLUDING PRINTED STATEMENT OF VOC CONTENT.

PART 2 - PRODUCTS

0.1 PERFORMANCE REQUIREMENTS

A. COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE."
B. RETAIN SEISMIC OPTIONS AND DESIGN CRITERIA IN "STRUCTURAL PERFORMANCE" PARAGRAPH BELOW THAT ARE APPROVED BY AUTHORITIES HAVING JURISDICTION.
C. STRUCTURAL PERFORMANCE: DUCT HANGERS AND SUPPORTS AND SEISMIC RESTRAINTS AS REQUIRED BY LOCAL CODES SHALL WITHSTAND THE EFFECTS OF GRAVITY AND SEISMIC LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS DESCRIBED IN SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE" AND ASCE/SEI 7. SMACNA'S "SEISMIC RESTRAINT MANUAL: GUIDELINES FOR MECHANICAL SYSTEMS."
D. AIRSTREAM SURFACES: SURFACES IN CONTACT WITH THE AIRSTREAM SHALL COMPLY WITH REQUIREMENTS IN ASHRAE 62.1.
E. ASHRAE COMPLIANCE: APPLICABLE REQUIREMENTS IN ASHRAE 62.1, SECTION 5 - "SYSTEMS AND EQUIPMENT" AND SECTION 7 - "CONSTRUCTION AND SYSTEM START-UP."
F. ASHRAE/IESNA COMPLIANCE: APPLICABLE REQUIREMENTS IN ASHRAE/IESNA 90.1, SECTION 6.4.4 - "HVAC SYSTEM CONSTRUCTION AND INSULATION."
G. COMPLY WITH NFPA 90A, "INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS" AND WITH NFPA 90B, "INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS."
H. COMPLY WITH NFPA 96 FOR DUCTS CONNECTED TO COMMERCIAL KITCHEN HOODS.
I. COMPLY WITH UL 181 FOR DUCTS AND CLOSURES.

0.2 DUCTS

A. GALVANIZED-STEEL SHEET: ASTM A 653/A, 653M, WITH G60 (Z180) HOT-DIP GALVANIZED COATING.
   1. GALVANIZED COATING DESIGNATION: G60 (Z180).
   2. FINISHES FOR SURFACES EXPOSED TO VIEW: MILL PHOSPHATIZED.
B. CARBON-STEEL SHEETS: ASTM A 1008/A 1008M; WITH OILED, MATTE FINISH FOR EXPOSED DUCTS.
C. STAINLESS STEEL: ASTM A 480/A 480M, TYPE 316, WITH A NO. 2D FINISH FOR CONCEALED DUCTS AND NO. 4 FINISH FOR EXPOSED DUCTS.
D. FIBROUS-GLASS DUCT BOARD: COMPLY WITH UL 181, CLASS 1, 1-INCH (25-MM) THICK, FIBROUS GLASS WITH FIRE-RESISTANT, REINFORCED FOIL-SCRIM-KRAFT BARRIER, AND HAVING THE AIR-SIDE SURFACE TREATED TO PREVENT EROSION.
E. JOINT AND SEAM TAPE AND SEALANT: COMPLY WITH UL 181A.
F. RECTANGULAR METAL DUCT FABRICATION: COMPLY WITH SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE."
G. FIBROUS-GLASS DUCT FABRICATION: COMPLY WITH SMACNA'S "FIBROUS GLASS DUCT CONSTRUCTION STANDARD."
H. FIBROUS-GLASS LINER: COMPLY WITH NFPA 90A OR NFPA 90B AND WITH NAIMA AH124.
   1. THICKNESS: [1/2 INCH (13 MM)] [1 INCH (25 MM)] [1-1/2 INCHES (38 MM)].

   NOTE: ANTIMICROBIAL COATING IN FIRST SUBPARAGRAPH BELOW IS AN OPTIONAL FEATURE FOR DUCT LINER.
   1. AIRSTREAM SURFACE COATED WITH AN ANTIMICROBIAL EROSION-RESISTANT COATING.
   2. LINER ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B AND WITH ASTM C 916.
   3. MECHANICAL FASTENERS: GALVANIZED STEEL SUITABLE FOR ADHESIVE ATTACHMENT, MECHANICAL ATTACHMENT, OR WELDING ATTACHMENT

0.3 ACCESSORIES

A. VOLUME DAMPERS AND CONTROL DAMPERS: SINGLE-BLADE AND MULTIPLE OPPOSED-BLADE DAMPERS, STANDARD LEAKAGE RATING, AND SUITABLE FOR HORIZONTAL OR VERTICAL APPLICATIONS; FACTORY FABRICATED AND COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES.
B. FIRE DAMPERS: RATED AND LABELED ACCORDING TO UL 555 BY AN NRTL; FACTORY FABRICATED AND COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES.
C. CEILING FIRE DAMPERS: LABELED ACCORDING TO UL 555C BY AN NRTL AND COMPLYING WITH CONSTRUCTION DETAILS FOR TESTED FLOOR-CEILING AND ROOF-CEILING ASSEMBLIES AS INDICATED IN UL'S "FIRE RESISTANCE DIRECTORY." PROVIDE FACTORY-FABRICATED UNITS COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES.
D. SMOKE DAMPERS: LABELED ACCORDING TO UL 555S BY AN NRTL. COMBINATION FIRE AND SMOKE DAMPERS SHALL ALSO BE RATED AND LABELED ACCORDING TO UL 555. PROVIDE FACTORY-FABRICATED UNITS COMPLETE WITH REQUIRED HARDWARE AND ACCESSORIES.
E. FLEXIBLE CONNECTORS: FLAME-RETARDED OR NONCOMBUSTIBLE FABRICS, COATINGS, AND ADHESIVES COMPLYING WITH UL 181, CLASS 1.
F. FLEXIBLE DUCTS: SPIRAL-WOUND STEEL SPRING WITH FLAMEPROOF VINYL SHEATHING WITH AN OUTER JACKET ENCLOSING 2-INCH (50-MM) THICK, GLASS-FIBER INSULATION COMPLYING WITH UL 181, CLASS 1.
G. INSTALL VOLUME AND CONTROL DAMPERS IN LINED DUCT WITH METHODS TO AVOID DAMAGE TO LINER AND EROSION OF DUCT LINER.
H. INSTALL FIRE AND SMOKE DAMPERS ACCORDING TO UL LISTING.
I. INSTALL FUSIBLE LINKS IN FIRE DAMPERS.
J. CLEAN NEW AND EXISTING DUCT SYSTEM(S) BEFORE TESTING, ADJUSTING, AND BALANCING.

SECTION 23 74 13 | PACKAGE CENTRAL STATION AIR CONDITIONING UNITS

PART 1 - GENERAL

0.1 SECTION REQUIREMENTS

A. SUBMITTALS:
   1. PRODUCT DATA: INCLUDE MANUFACTURER'S TECHNICAL DATA FOR EACH REMOTE TERMINAL UNIT (RTU), INCLUDING RATED CAPACITIES, DIMENSIONS, REQUIRED CLEARANCES, CHARACTERISTICS, FURNISHED SPECIALTIES, AND ACCESSORIES.
   2. DOCUMENTATION INDICATING THAT EQUIPMENT AND REFRIGERANTS COMPLY.
   3. DOCUMENTATION INDICATING THAT UNITS COMPLY WITH ASHRAE 62.1, SECTION 5 - "SYSTEMS AND EQUIPMENT.

PART 2 - PRODUCTS

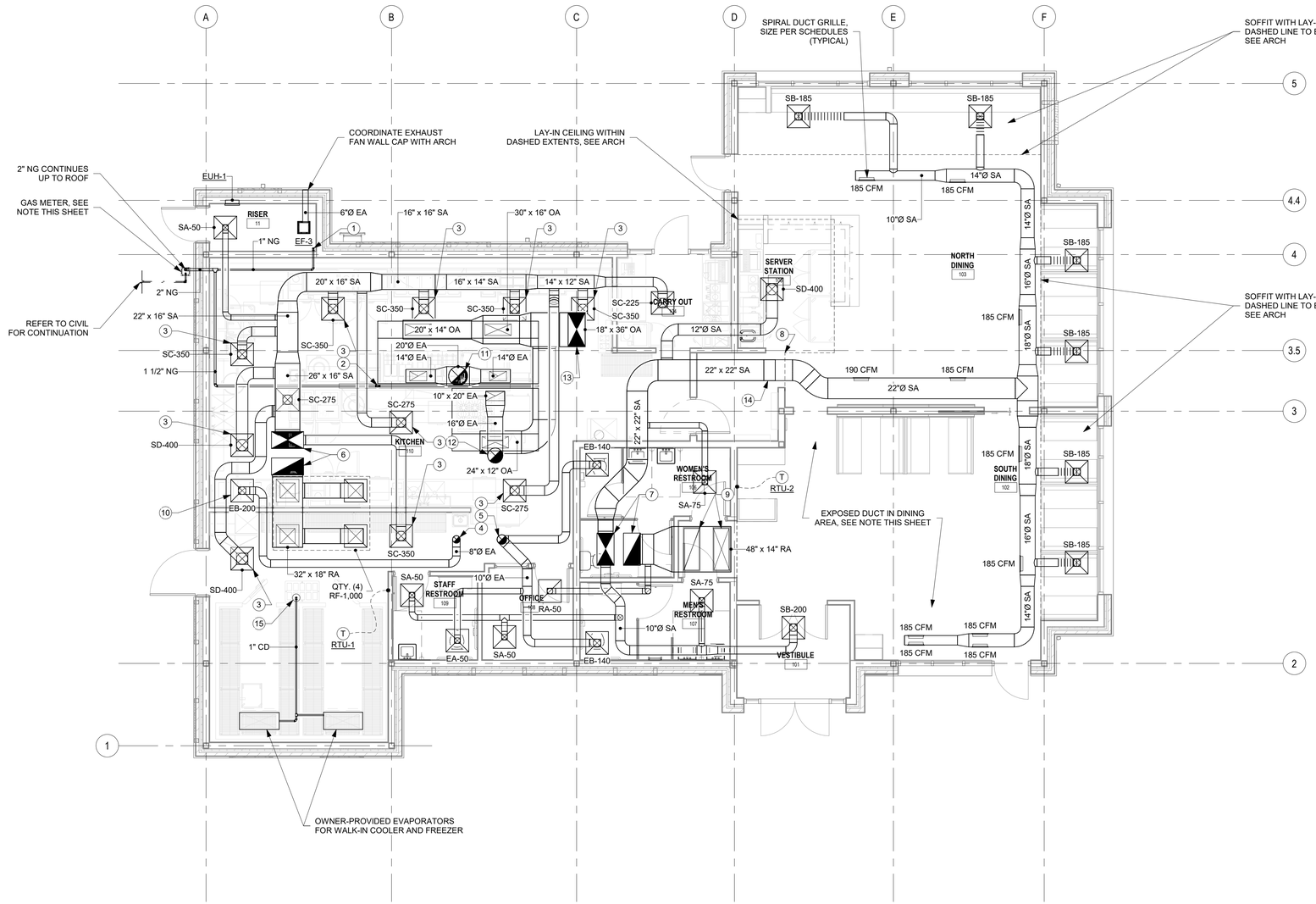
0.1 PERFORMANCE REQUIREMENTS

WIND-RESTRAINT PERFORMANCE:
A. OBTAIN VALUES FOR ITEMS IN SUBPARAGRAPHS BELOW FROM PROJECT STRUCTURAL ENGINEER OR FROM ASCE/SEI 7.
   1. MINIMUM 10 LB/SQ. FT. (48.8 KG/SQ. M) MULTIPLIED BY THE MAXIMUM AREA OF THE MECHANICAL COMPONENT PROJECTED ON A VERTICAL PLANE THAT IS NORMAL TO THE WIND DIRECTION, AND 45 DEGREES EITHER SIDE OF NORMAL.
B. SEISMIC PERFORMANCE: RTU'S SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE/SEI 7 AS REQUIRED BY LOCAL CODES AND BUILDING USE.
C. ARI COMPLIANCE: ARI 210/240 AND ARI 340/360 FOR TESTING AND RATING ENERGY EFFICIENCIES FOR RTU'S; ARI 270 FOR TESTING AND RATING SOUND PERFORMANCE FOR RTU'S.
D. COMPLY WITH ASHRAE 15.
   1. COMPLY WITH APPLICABLE REQUIREMENTS IN ASHRAE 62.1, SECTION 5 - "SYSTEMS AND EQUIPMENT" AND SECTION 7 - "CONSTRUCTION AND STARTUP."
E. ASHRAE/IESNA 90.1 COMPLIANCE:
   1. APPLICABLE REQUIREMENTS IN ASHRAE/IESNA 90.1, SECTION 6 - "HEATING, VENTILATING, AND AIR-CONDITIONING."
   2. ENERGY EFFICIENCY RATIO (EER): EQUAL TO OR GREATER THAN PRESCRIBED BY ASHRAE/IESNA 90.1, "ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS."
F. NFPA COMPLIANCE: COMPLY WITH NFPA 90A AND NFPA 90B.
G. COMPLY WITH NFPA 70, BY A TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND MARKED FOR INTENDED LOCATION AND APPLICATION.
H. WARRANTIES: PROVIDE STANDARD MANUFACTURER'S WRITTEN WARRANTY, WITHOUT MONETARY LIMITATION, SIGNED BY MANUFACTURER AGREEING TO PROMPTLY REPAIR OR REPLACE PRODUCTS THAT FAIL IN MATERIALS OR WORKMANSHIP FOR THE PERIOD OF FIVE YEARS UNLESS OTHERWISE SPECIFIED BY OWNER/ARCHITECT FRONT-END CONTRACT DOCUMENTS.

0.2 PACKAGED, OUTDOOR, CENTRAL-STATION AIR-HANDLING UNITS

0.3 COMPONENTS

A. CASING: FORMED AND REINFORCED INSULATED PANELS, FABRICATED TO ALLOW REMOVAL FOR ACCESS TO INTERNAL PARTS AND COMPONENTS, WITH JOINTS BETWEEN SECTIONS SEALED.
   1. EXTERIOR CASING: GALVANIZED STEEL WITH FACTORY-PAINTED FINISH AND PITCHED ROOF PANELS.
   2. INNER CASING: GALVANIZED STEEL.
   3. "CONDENSATE DRAIN PANS" SUBPARAGRAPH BELOW COMPLIES WITH LEED PREREQUISITE IEQ 1.
   4. CONDENSATE DRAIN PANS: COMPLY WITH ASHRAE 62, INSULATED GALVANIZED STEEL.
   5. RETAIN "AIRSTREAM SURFACES" PARAGRAPH BELOW TO COMPLY WITH LEED PREREQUISITE IEQ 1.
      1. AIRSTREAM SURFACES: SURFACES IN CONTACT WITH THE AIRSTREAM SHALL COMPLY WITH REQUIREMENTS IN ASHRAE 62.1.
B. FANS:
   1. DIRECT-DRIVEN, SUPPLY-AIR FANS: DOUBLE WIDTH, FORWARD CURVED CENTRIFUGAL; WITH PERMANENTLY LUBRICATED, MULTISPEED MOTOR RESILIENTLY MOUNTED IN THE FAN INLET.
   2. BELT-DRIVEN, SUPPLY-AIR FANS: DOUBLE WIDTH, FORWARD CURVED, CENTRIFUGAL; WITH PERMANENTLY LUBRICATED, SINGLE-SPEED MOTOR INSTALLED ON AN ADJUSTABLE FAN BASE RESILIENTLY MOUNTED IN THE CASING.
   3. CONDENSER COIL FAN: PROPELLER, MOUNTED ON SHAFT OF PERMANENTLY LUBRICATED MOTOR.
   4. RELIEF-AIR FAN: FORWARD CURVED, SHAFT MOUNTED ON PERMANENTLY LUBRICATED MOTOR.
C. FAN MOTORS: COMPLY WITH NEMA MG 1 UNLESS OTHERWISE INDICATED BY AUTHORITIES HAVING JURISDICTION. CONTINUOUS DUTY AT AMBIENT TEMPERATURE OF 105°F (40°C) AND AT ALTITUDE OF 3,300 FEET (1,000 M) ABOVE SEA LEVEL.
D. REFRIGERANT COILS: ALUMINUM-PLATE FIN AND SEAMLESS COPPER TUBE IN STEEL CASING WITH EQUALIZING-TYPE VERTICAL DISTRIBUTOR.
E. ELECTRIC-RESISTANCE HEATING COIL: OPEN-RESISTANCE WIRE SUPPORTED AND INSULATED BY CERAMIC BUSHINGS IN GALVANIZED CASING WITH OVER-TEMPERATURE AND OVER-CURRENT PROTECTION, MAGNETIC CONTACTORS, AND STEP CONTROLLER.
F. COMPRESSOR: MOUNTED ON VIBRATION ISOLATORS, INTERNAL OVER-CURRENT AND HIGH-TEMPERATURE PROTECTION, INTERNAL PRESSURE RELIEF. SCROLL COMPRESSORS.
G. REFRIGERATION SPECIALTIES:
   1. REFRIGERANT CHARGE: R-410A.
   2. EXPANSION VALVE WITH REPLACEABLE THERMOSTATIC ELEMENT.
   3. REFRIGERANT FILTER/DRYER.
   4. MANUAL-RESET HIGH-PRESSURE SAFETY SWITCH.
   5. AUTOMATIC-RESET LOW-PRESSURE SAFETY SWITCH.
   6. MINIMUM OFF-TIME RELAY.
   7. AUTOMATIC-RESET COMPRESSOR MOTOR THERMAL OVERLOAD.
   8. BRASS SERVICE VALVES INSTALLED IN COMPRESSOR SUCTION AND LIQUID LINES.
   9. LOW-AMBIENT KIT, HIGH-PRESSURE SENSOR.
   10. HOT-GAS REHEAT SOLENOID VALVE WITH A REPLACEABLE MAGNETIC COIL.
   11. HOT-GAS BYPASS SOLENOID VALVE WITH A REPLACEABLE MAGNETIC COIL.
   12. FOUR-WAY REVERSING VALVE WITH A REPLACEABLE MAGNETIC COIL. THERMOSTATIC EXPANSION VALVES WITH BYPASS CHECK VALVES, AND A SUCTION LINE ACCUMULATOR.
H. AIR FILTRATION: MINIMUM ARRESTANCE ACCORDING TO ASHRAE 52.1 AND A MINIMUM EFFICIENCY REPORTING VALUE (MERV) ACCORDING TO ASHRAE 52.2.
   1. PLEATED: MINIMUM 90% ARRESTANCE, AND MERV 8.
I. GAS FURNACE: COMPLY WITH ANSI Z21.47 AND NFPA 54.
   1. FUEL: NATURAL GAS.
   2. BURNER EFFICIENCY: MINIMUM 80 PERCENT.
   3. IGNITION: ELECTRONICALLY CONTROLLED SPARK OR HOT-SURFACE IGNITER WITH FLAME SAFETY CONTROLS.
   4. HEAT EXCHANGER AND DRAIN PAN: STAINLESS STEEL.
   5. VENT: POWER
   6. GAS CONTROL: REFER TO PLANS.
J. DAMPERS:
   1. OUTDOOR-AIR DAMPER: LINKED DAMPER BLADES WITH DAMPER FILTER: REFER TO PLANS.
   2. OUTDOOR- AND RETURN-AIR MIXING DAMPERS: WHERE REQUIRED, GALVANIZED-STEEL DAMPERS WITH MODULATING DAMPER MOTOR AND GRAVITY-ACTUATED RELIEF-AIR DAMPER.
K. ELECTRICAL POWER CONNECTION: PROVIDE FOR SINGLE CONNECTION OF POWER TO UNIT WITH UNIT-MOUNTED DISCONNECT SWITCH ACCESSIBLE FROM OUTSIDE UNIT AND CONTROL-CIRCUIT TRANSFORMER WITH BUILT-IN OVER-CURRENT PROTECTION.
L. C



FIELD-FABRICATED GREASE DUCT

CONTRACTOR TO INSTALL UL-LISTED, SINGLE-WALL FIELD-ASSEMBLED GREASE DUCT, REFERENCE MFR METAL-FAB INC., IN COMPLIANCE WITH 2018 IMC, 2009 NFPA 17A, AND LOCAL AHJ

DOUBLE-WRAP ALL GREASE DUCT WITH ASTM-APPROVED 3M 615+ FIRE BARRIER DUCT WRAP TO ALLOW ZERO-CLEARANCE TO COMBUSTIBLES

EXPOSED DUCT

EXPOSED SUPPLY DUCT TO BE DOUBLE-WALL SPIRAL, INSULATED PER SPECS, MILL FINISH PREPPED FOR PAINT

COORDINATE FINISH OF ALL DUCT, AIR DISTRIBUTION, PIPING, ETC. WITH ARCH/INTERIORS

COORDINATE FINAL MOUNTING HEIGHT WITH ARCH/LIGHTING. INSTALL ALL AIR DISTRIBUTION TO AVOID SWAYING OR DISRUPTION OF ANY EXPOSED LIGHT FIXTURES

HANG ALL EXPOSED DUCT WITH GRIPPLE CABLE HANGERS FOR DESIRED AESTHETIC APPEARANCE

KITCHEN EXHAUST AND MAKEUP

REFER TO SUPPLEMENTAL DRAWINGS FOR OWNER-PROVIDED, CONTRACTOR-INSTALLED KITCHEN HOODS

KITCHEN EXHAUST FANS AND MAKEUP UNIT TO BE PROVIDED BY CONTRACTOR

SYSTEM SHALL MEET REQ'S OF 2012 IBC, 2012 IFGC, 2009 NFPA 17A, AND ALL OTHER REQ'S SET BY LOCAL AHJ

HOOD SYSTEM SHALL BE INTERLOCKED TO OPERATE WHENEVER ANY COOKING EQUIPMENT IS OPERATING

NATURAL GAS

ITEM	CFH
RTU-1	200
RTU-2	200
MAU-1	372
RANGE	219
OVEN	92
OVEN	92
GRIDDLE	50
GRIDDLE	100
WH-1 (PLUMBING)	199
TOTAL	1,524

SERVICE PRESSURE: 7-10 IN. W.C.
LONGEST RUN: 70 FT
PIPE SIZE: 2-1/2"

CONTRACTOR TO COORDINATE GAS METER WITH GC AND LOCAL UTILITY BASED ON CRITERIA ABOVE

BUILDING AIR BALANCE

ITEM	CFM
RTU-1	800 OA
RTU-1	800 OA
MAU-1	5,545 OA
EF-1	-200 EA
EF-2	-330 EA
EF-3	-50 EA
KEF-1	-2,441 EA
KEF-2	-4,490 EA
TOTAL	-166 OA

NOTE: EF-1 AND EF-2 WILL ONLY OPERATE WHEN RESTROOMS ARE OCCUPIED, GIVING AN AIR BALANCE OF 364 CFM OA POSITIVE PRESSURE WHEN NOT IN USE

MECHANICAL KEYNOTES

1. 1" NG TO SERVE WATER HEATER, SEE PLUMBING
2. 1-1/2" NG MANIFOLD AT FLOOR LEVEL TO SERVE COOKLINE EQUIPMENT, SEE TABLE THIS SHEET
3. INSTALL CAPTIVEAIRE DI-PSP LAMINAR SUPPLY DIFFUSER IN KITCHEN, NECK AND RUNOUT SIZE PER SCHEDULES
4. 8"Ø EXHAUST DUCT UP TO EF-1
5. 10"Ø EXHAUST DUCT UP TO EF-2
6. DUCT DROPS TO/FROM RTU-1 ABOVE, INSTALL DUCT SMOKE DETECTORS PRIOR TO ANY BRANCH RUNOUTS
7. DUCT DROPS TO/FROM RTU-2 ABOVE, INSTALL DUCT SMOKE DETECTORS PRIOR TO ANY BRANCH RUNOUTS
8. EXPOSED SUPPLY DUCT IN DINING AREAS FROM THIS POINT FORWARD
9. 44" x 16" PRICE 500 RETURN GRILLE IN CEILING
10. EXHAUST TO SERVE AS SUPPLEMENTAL HEAT AND MOISTURE REMOVAL OVER VENTLESS DISHWASHER
11. 20"Ø GREASE DUCT UP TO KEF-2 ABOVE
12. 16"Ø GREASE DUCT UP TO KEF-1 ABOVE
13. 36" x 18" MAKEUP AIR DUCT DOWN FROM MAU-1 ABOVE
14. RECTANGULAR TO ROUND TRANSITION
15. ROUTE CONDENSATE FROM WALK-IN EVAPORATORS TO FLOOR DRAIN, INDIRECT DISCHARGE, SEE PLUMBING

1 MECHANICAL FLOOR PLAN
3/16" = 1'-0"

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OLD GLORY RESTAURANT

TRADEWINDS DR. PARCEL 33.5
COLUMBIA, TN

CHRIS LEHMAN
REGISTERED PROFESSIONAL ENGINEER
AGRICULTURE
12/22/23
COMMERCE
No. 111457
STATE OF TENNESSEE

INSIGHT ENGINEERING
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ISSUED FOR

- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS

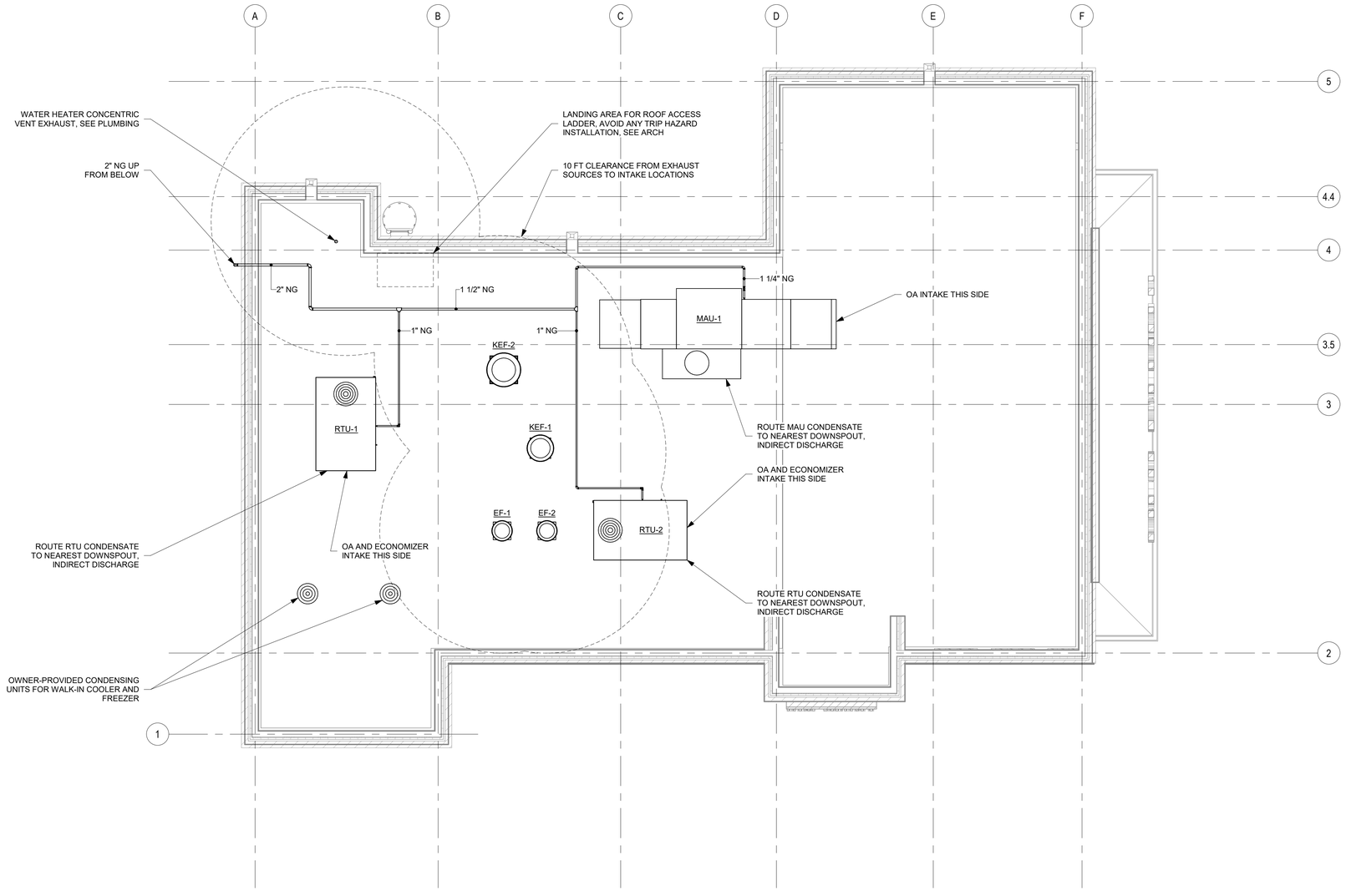
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BR

DATE:
12.22.2023

DRAWING
MECHANICAL FLOOR PLAN

M101



1 MECHANICAL ROOF PLAN
3/16" = 1'-0"

ROOFTOP EQUIPMENT SCREENING

CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT IS COMPLETELY SCREENED FROM ALL OFF-SITE VIEWS. THE CHANGE-OUT OF ANY EQUIPMENT TO A LARGER DIMENSIONAL HEIGHT OR MOUNTING HEIGHT WILL REQUIRE THAT ADDITIONAL MEASURES BE TAKEN TO MEET SCREENING REQ'S PER LOCAL AHJ

ROOFTOP EQUIPMENT LOADING

ALL ROOFTOP EQUIPMENT SHALL COMPLY WITH IBC SEISMIC AND WIND LOAD REQ'S. REFER TO STRUCTURE FOR MEANS AND METHODS

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DRAWN BY:
BR

DATE:
12.22.2023

DRAWING
MECHANICAL ROOF PLAN

M102

COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Old Glory Restaurant
Location:	Columbia, Tennessee
Climate Zone:	4a
Project Type:	New Construction

Construction Site:
Tradewinds Drive
Parcel 33.5
Columbia, TN

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Mechanical Systems List

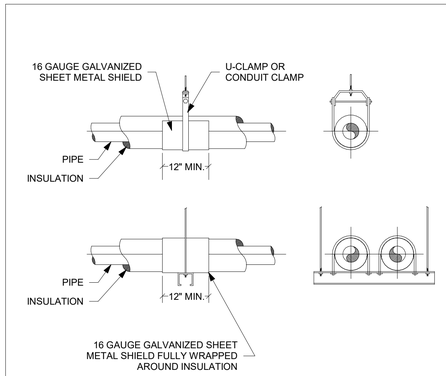
Quantity **System Type & Description**

2 RTU-1, 2 (Single Zone):
Heating: 1 each - Duct Furnace, Gas, Capacity = 200 kBtu/h
Proposed Efficiency = 80.00% Ec, Required Efficiency: 80.00 % Ec
Cooling: 1 each - Single Package DX Unit, Capacity = 114 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 12.40 EER, Required Efficiency: 11.00 EER + 12.6 IEER
Fan System: None

Mechanical Compliance Statement

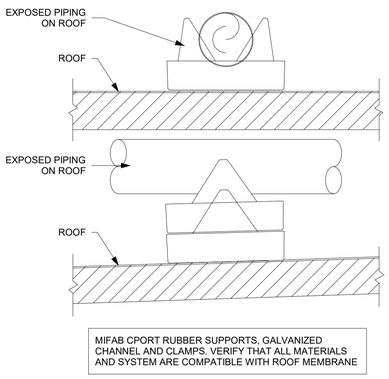
Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Chris Lehman - P.E.	*Chris Lehman*	12/22/23
Name - Title	Signature	Date



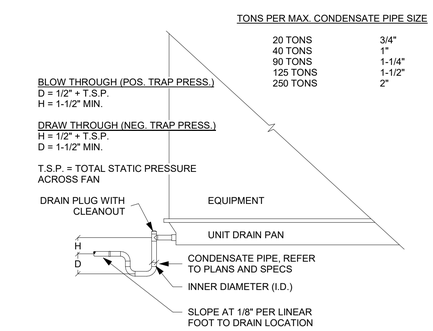
PIPE HANGERS DETAIL

NO SCALE



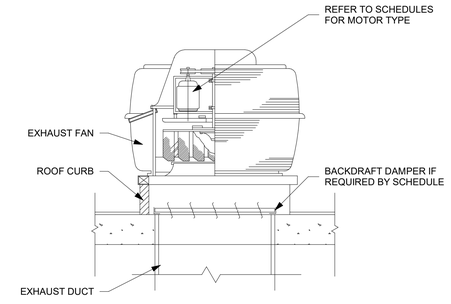
EXPOSED PIPING ON ROOF DETAIL

NO SCALE



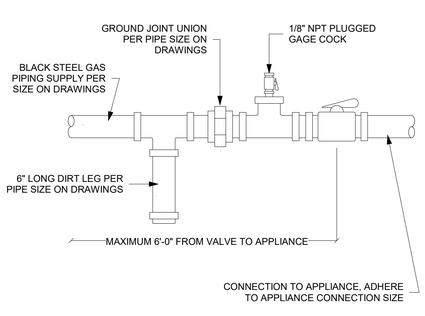
CONDENSATE DRAIN DETAIL

NO SCALE



UPBLAST EXHAUST FAN DETAIL

NO SCALE



NATURAL GAS CONNECTION DETAIL

NO SCALE

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DRAWING
MECHANICAL DETAILS AND COMCHECK

M501

FAN SCHEDULE

UNIT NO.	MANUFACTURER	UNIT MODEL	SERVICE	TYPE	DRIVE	AIRFLOW (CFM)	AIRFLOW DIRECTION	MAX. FAN RPM	N.C. (SONES)	E.S.P. (IN. W.C.)	VOLT / PH / HZ	MOTOR POWER	ACCESSORIES
EF-1	GREENHECK	CUE-080-VG	DISHWASHER	UPBLAST	DIRECT	200	EXHAUST	1,725	4.6	0.25"	120 / 1 / 60	0.1 HP	1,2,3,5,6,7
EF-2	GREENHECK	CUE-080-VG	RESTROOMS	UPBLAST	DIRECT	330	EXHAUST	1,725	6.4	0.25"	120 / 1 / 60	0.1 HP	1,2,3,4,6,7
EF-3	GREENHECK	SP-AP0511W	RISER ROOM	CEILING	DIRECT	50	EXHAUST	820	0.6	0.25"	120 / 1 / 60	16.5 W	1,2,3,5,6
KEF-1	GREENHECK	CUE-160-VG	KITCHEN HOOD #1	UPBLAST	DIRECT	2,441	EXHAUST	1,725	18	1.5"	208 / 3 / 60	2 HP	1,2,3,6,7,8,9,10,11
KEF-2	GREENHECK	CUE-200-VG	KITCHEN HOOD #2	UPBLAST	DIRECT	4,490	EXHAUST	1,350	19.5	1.5"	208 / 3 / 60	3 HP	1,2,3,6,7,8,9,10,11

1. OUTLET SCREEN
2. BACKDRAFT DAMPER
3. NON-FUSED DISCONNECT FURNISHED BY ELECTRICAL
4. INTERLOCK FAN TO ROOM LIGHT SWITCH WITH OCCUPANCY SENSOR
5. INSTALL 7-DAY, 24-HR PROGRAMMABLE TIMER WITH SWITCH, FAN TO RUN CONTINUOUSLY DURING HOURS OF OPERATION
6. SPEED CONTROLLER FOR BALANCING
7. MFR ROOF CURB
8. HIGH TEMP CURB SEAL RATED FOR CONTINUOUS USE AT 1,500°F
9. FAN GREASE TRAP
10. UL 705 COMPLIANT FOR RESTAURANT EXHAUST USE
11. INTERLOCK FAN TO KITCHEN HOOD CONTROLS SYSTEM, SEE PLANS

PIPE SCHEDULE

SYSTEM	SERVICE	SIZE	LOCATION	MATERIAL	INSULATION	NOTES
CD	MECHANICAL CONDENSATE	ALL	ALL	TYPE M COPPER, ASTM B 88	3/4" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	PLENUM RATED MATERIAL WITH FITTINGS AND JOINTS PER SPECS
		ALL		CPVC, ASTM D 2846, ASTM F 493	3/4" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	
REF	REFRIGERANT (GAS)	UP TO 1"	ALL	PRECLEANED ACR COPPER TUBE, ASTM B 280	1/2" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	CLEAN AND PURGE ALL PIPING PRIOR TO SERVICE WITH ENDS SEALED
		1" AND OVER			1" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	
	REFRIGERANT (LIQUID)	UP TO 1-1/2"	ALL	PRECLEANED ACR COPPER TUBE, ASTM B 280	1-1/2" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	CLEAN AND PURGE ALL PIPING PRIOR TO SERVICE WITH ENDS SEALED
		1-1/2" AND OVER			2" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	
	REFRIGERANT (HIGH PRESSURE GAS)	ALL	ALL	PRECLEANED ACR COPPER TUBE, ASTM B 280	2-1/2" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	CLEAN AND PURGE ALL PIPING PRIOR TO SERVICE WITH ENDS SEALED
	REFRIGERANT (LOW PRESSURE GAS)	UP TO 1-1/2"	ALL	PRECLEANED ACR COPPER TUBE, ASTM B 280	1-1/2" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	CLEAN AND PURGE ALL PIPING PRIOR TO SERVICE WITH ENDS SEALED
		1-1/2" AND OVER			2" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	
NG	NATURAL GAS	ALL	ALL	SCH. 40 DUCTILE IRON, ASTM A 536	-	THREADED FITTINGS, ANSI B 16.3, INSTALL CONCEALED PIPING PER IFGC 404.5

NOTES:
ALL PIPING INSTALLED IN PLENUM AREAS TO BE CAST IRON, CPVC, OR TYPE L COPPER REGARDLESS OF PIPE SIZE, SEE SCHEDULE FOR APPLICATION
ALL EXPOSED PIPING AND PIPING MANIFOLDS TO BE TYPE L COPPER OR CAST IRON REGARDLESS OF PIPE SIZE, SEE SCHEDULE FOR APPLICATION
INSTALL ALL PRODUCTS PER MFR RECOMMENDATIONS AND IN COMPLIANCE WITH LOCAL AHJ
INSTALL A CONTINUOUS VAPOR BARRIER ON ALL REFRIGERANT LINES AND PASS THROUGH HANGERS AND SUPPORTS UNBROKEN AND WITHOUT COMPRESSING INSULATION
INSTALL (1) COAT OF UV-RESISTANT PAINT ON ALL EXTERIOR INSULATED PIPING EXPOSED TO OUTDOORS
SUPPORT ALL PIPING PER SPECS
LABEL ALL PIPING PER ASME A13.1 STANDARDS

SPIRAL DUCT GRILLE SCHEDULES

MANUFACTURER	MODEL	MAX. CFM	GRILLE SIZE	MIN. DUCT DIAMETER	E.S.P. (IN. W.C.)	MAX. N.C. (SONES)	ACCESSORIES
PRICE	SDG	100	12" x 4"	6"	0.021"	< 15	1,2,3
PRICE	SDG	200	16" x 6"	8"	0.021"	< 15	1,2,3
PRICE	SDG	300	16" x 8"	10"	0.021"	< 15	1,2,3
PRICE	SDG	400	18" x 10"	12"	0.021"	< 15	1,2,3

1. UNPAINTED STEEL CONSTRUCTION, COORDINATE FINISH WITH ARCHITECT
2. GALVANIZED STEEL CONSTRUCTION FOR CORROSION PREVENTION
3. INTEGRAL DOUBLE-DEFLECTION DAMPER WITH AIR SCOOP FOR BALANCING

NOTE: USE MODEL SDGR FOR RETURN APPLICATIONS, ALL SIZES ABOVE APPLY

SQUARE CEILING DIFFUSER SCHEDULE

SYMBOL	ADAPTOR TO NECK SIZE	LAY-IN FRAME SIZE	SPIRAL DUCT GRILLE SIZE	MAX. CFM	E.S.P. (IN. W.C.)	MAX. N.C. (SONES)	RUNOUT SIZES
SA	6"Ø	24" x 24"	10" x 4"	100	0.021"	< 15	6"Ø / 8" x 6"
SB	8"Ø	24" x 24"	18" x 4"	210	0.036"	< 15	8"Ø / 10" x 6"
SC	10"Ø	24" x 24"	20" x 6"	380	0.057"	< 15	10"Ø / 12" x 8"
SD	12"Ø	24" x 24"	24" x 8"	630	0.083"	< 15	12"Ø / 16" x 8"

1. BASED ON METALAIRE 5700 SQUARE DIFFUSER W/ DAMPER FOR SPIRAL DUCT
2. SQUARE DIFFUSERS SHALL BE FURNISHED WITHOUT DAMPERS UNLESS NOTED
3. INSTALL MANUAL VOLUME DAMPERS IN ALL RUNOUTS AT MAIN DUCT TAPS
4. ROUTE RUNOUT SIZE TO GRILLE UNLESS OTHERWISE NOTED ON DRAWINGS

EGG-CRATE RETURN AND EXHAUST GRILLE SCHEDULE

SYMBOL	ADAPTOR TO NECK SIZE	CUT-IN FRAME SIZE	LAY-IN FRAME SIZE	MAX. CFM	E.S.P. (IN. W.C.)	MAX. N.C. (SONES)	RUNOUT SIZES
RA / EA	6"Ø to 6" x 6"	8" x 8"	24" x 24"	100	0.01"	< 15	6"Ø / 8" x 4"
RB / EB	8"Ø to 8" x 8"	10" x 10"	24" x 24"	210	0.01"	< 15	8"Ø / 10" x 6"
RC / EC	10"Ø to 10" x 10"	12" x 12"	24" x 24"	320	0.03"	< 15	10"Ø / 14" x 6"
RD / ED	12"Ø to 12" x 10"	14" x 14"	24" x 24"	480	0.03"	< 15	12"Ø / 16" x 8"
RE / EE	14"Ø to 18" x 18"	18" x 18"	24" x 24"	900	0.03"	< 15	14"Ø / 14" x 12"
RF / EF	16"Ø to 18" x 18"	20" x 20"	24" x 24"	1,200	0.04"	< 15	16"Ø / 16" x 14"

1. BASED ON METALAIRE CC5 WITH 1/2" GRID SPACING FOR CEILING LAY-IN OR SURFACE MOUNT
2. GRILLES TO BE FURNISHED WITHOUT DAMPER
3. INSTALL MANUAL VOLUME DAMPER IN RUNOUTS AT MAIN DUCT TAPS
4. FACE SIZE BASED ON LAY-IN CEILING. ADD 1-3/4" TO FACE SIZE FOR DRYWALL APPLICATIONS

ELECTRIC UNIT HEATER SCHEDULE

UNIT NO.	MANUFACTURER	UNIT MODEL	SERVICE	HEATING CAPACITY (kW)	VOLT / PH / HZ	AMPS	ACCESSORIES
EUH-1	QMARK	AWH 3150 F	RISER ROOM	1.5	120 / 1 / 60	12.5	1,2,3,4

1. TAMPER-RESISTANT INTEGRAL THERMOSTAT
2. SURFACE MOUNTED FRAME MODEL LFKSM
3. CONCEALED NON-FUSED DISCONNECT
4. SECURITY FRONT COVER MODEL LFKSFC

PACKAGED ROOFTOP UNIT SCHEDULE

UNIT NO.	MANUFACTURER	UNIT MODEL	TONS	SERVICE	FAN			COOLING						HEATING				ELECTRICAL			UNIT WEIGHT (LBS)	ACCESSORIES
					SUPPLY AIR (CFM)	OUTDOOR AIR (CFM)	E.S.P. (IN. W.C.)	TOTAL COOLING (MBH)	SENSIBLE COOLING (MBH)	HOT GAS REHEAT (MBH)	E.A.D.B / E.A.W.B. (°F)	AMBIENT TEMP. (°F)	SEER	FUEL	GAS INPUT (MBH)	GAS OUTPUT (MBH)	GAS PRESSURE (IN. W.C.)	VOLT / PH / HZ	MCA	MOP		
RTU-1	TRANE	YHC 120	10.0	KITCHEN	4,000	800	0.5"	113.9	94	81	80° / 67°	95°	12.4	NATURAL GAS	200	160	7" - 10"	208 / 3 / 60	46.1	60	2,000	1,2,3,4,5,6,7,8,9,10,11
RTU-2	TRANE	YHC 120	10.0	REMAINDER	4,000	800	0.5"	113.9	94	81	80° / 67°	95°	12.4	NATURAL GAS	200	160	7" - 10"	208 / 3 / 60	46.1	60	2,000	1,2,3,4,5,6,7,8,9,10,11
MAU-1	GREENHECK	DGX-P120-H32-MF-10	-	KITCHEN HOODS	-	5,545	1.0"	160.4	103.6	-	94.4° / 78.2°	95°	16.3	NATURAL GAS	372	342	7" - 10"	208 / 3 / 60	64.9	80	3,500	1,2,3,4,6,7,8,9,12,13,14,15,16

1. LOW AMBIENT CONTROL
2. PLEATED 2" MERV-8 FILTERS
3. MFR THERMOSTAT AND HUMIDISTAT REQUIRED FOR HOT GAS REHEAT
4. FACTORY MOUNTED DISCONNECT
5. THROUGH-BASE ELECTRICAL CONNECTION
6. DOWNFLOW DISCHARGE
7. MFR ROOF CURB
8. SUPPLY AND RETURN DUCT-MOUNTED SMOKE DETECTORS TO DISABLE UNIT UPON DETECTION
9. MFR CONDENSER COIL GUARDS
10. HOT GAS REHEAT DEHUMIDIFICATION
11. 100% OA ECONOMIZER - ENABLE AT 55°F DRY BULB
12. DOUBLE-WALL INSULATED CABINET
13. FACTORY SUPPLY FAN VFD
14. HINGED ACCESS DOORS
15. LOW LEAKAGE OUTSIDE AIR DAMPER
16. FACTORY NEOPRENE VIBRATION ISOLATION FOR SUPPLY FAN AND MOTOR

P. STUDIO
761 OLD HICKORY BLVD STE 301
BRENTWOOD, TN 37027
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ISSUED FOR
- [ ] Lease Outline Diagram
- [ ] Schematic Design
- [ ] Design Development
- [x] Construction

REVISIONS

PROJECT NUMBER:
23079

DRAWN BY:
BR

DATE:
12.22.2023

DRAWING
MECHANICAL SCHEDULES

M601

PLUMBING LEGEND

2" CW	DOMESTIC COLD WATER, BELOW GRADE
2" CW	DOMESTIC COLD WATER, ABOVE GRADE
2" HW	DOMESTIC HOT WATER, 120°F
2" HW 140°F	DOMESTIC HOT WATER, 140°F
2" HWR	DOMESTIC HOT WATER RECIRCULATION
4" GW	GREASE WASTE, BELOW GRADE
4" SAN	SANITARY WASTE, BELOW GRADE
4" SAN	SANITARY WASTE, ABOVE GRADE
4" V	SANITARY VENT
4" RWL	PRIMARY RAINWATER LEADER, BELOW GRADE
4" RWL	PRIMARY RAINWATER LEADER, ABOVE GRADE
4" ORWL	OVERFLOW RAINWATER LEADER, ABOVE GRADE
2" FM	FORCED MAIN SUMP WASTE
(1)	KEYNOTE 1 ON SAME SHEET
	TIE-IN AT THIS APPROXIMATE LOCATION
AFF	ABOVE FINISHED FLOOR
U.N.O.	UNLESS NOTED OTHERWISE
MFR	MANUFACTURER
U/G	UNDERGROUND
VTR	VENT TO ROOF
REF. INV.: -2'-0" AFF	REFERENCE INVERT ELEVATION (BOTTOM OF INSIDE OF PIPE)
WC-1	EQUIPMENT OR FIXTURE TAG, REFER TO SCHEDULES
	FLOOR DRAIN
	CLEANOUT
	FLOOR SINK
	HOSE BIBB IN WALL
	ROOF DRAIN TO INTERNAL RAINWATER LEADERS

PLUMBING GENERAL NOTES

A. FIELD VERIFY ALL SITE PLUMBING CONNECTIONS FOR SANITARY DRAIN AND DOMESTIC WATER. PLANS ARE PROTOTYPICAL. REFER TO CIVIL SITE PLANS FOR OVERALL BUILDING LOCATIONS AND QUANTITIES. CHANGE DIRECTION OF FLOW AND MIRROR DESIGNS TO FIT SITE APPLICATIONS AS NECESSARY
B. FREEZE PROTECT ALL WATER PIPING. FOR WATER PIPING IN EXTERIOR WALLS, INSTALL ON INTERIOR SIDE OF INSULATION AND WRAP PIPE AND BACK OF HOSE BIBB FIXTURES WITH 3/4" CLOSED-CELL FOAM PIPE INSULATION. MAINTAIN WALL INSULATION THICKNESS - DO NOT COMPRESS
C. MAINTAIN MINIMUM DISTANCE OF 10 FT BETWEEN AIR INTAKES AND EXHAUST/PLUMBING VENTS
D. PIPING MAY BE SHOWN OFFSET FOR CLARITY. ROUTE ACTUAL INSTALLATION IN THE MOST LOGICAL MANNER IN COMPLIANCE WITH IPC, STATE AND LOCAL CODES
E. VERIFY WITH LOCAL AHJ AND INSTALL PROSET TRAP GUARD IN ALL HUB AND FLOOR DRAINS UPON APPROVAL. OTHERWISE INSTALL PRECISION PRODUCTS TRAP PRIMERS
F. VENT SANITARY SYSTEM WITH ROOF PENETRATION BOOTS IN PLACES NOT VISIBLE FROM FRONT OF BUILDING AND ENTRANCES
G. RISER VENTS MAY BE CONNECTED ABOVE CEILING OF HIGHEST LEVEL FOR COMMON VENT-TO-ROOF, BUT MUST BE SIZED PER IPC REQUIREMENTS FOR TOTAL DEVELOPED LENGTH
H. ALL PLUMBING PIPING, EQUIPMENT, ETC. HAS BEEN DESIGNED TO AVOID CROSSING ABOVE ELECTRICAL PANELS. CONTRACTOR TO COORDINATE FINAL ROUTING WITH ELECTRICAL PANEL LOCATIONS AND ENSURE COMPLIANCE WITH 2018 IPC AND LOCAL AHJ
I. SLEEVE ALL PIPING PENETRATING A FOUNDATION WALL PER IPC 305
J. REFERENCE INVERT ELEVATIONS GIVEN ON PLANS ARE GENERAL REQ'S BASED ON A STARTING DEPTH OF 2'-0" BELOW FINISHED FLOOR AND ARE INTENDED TO CLARIFY TOTAL FALL REQD WITHIN A PIPE SYSTEM DUE TO SLOPE. CONTRACTOR IS RESPONSIBLE FOR FINAL VERIFICATION AND COORDINATION OF INSTALLED INVERT ELEVATIONS WITH OTHER TRADES AND EXISTING CONDITIONS INCLUDING SITE SANITARY INVERT ELEVATION, ETC.

SECTION 22 05 00 | COMMON REQUIREMENTS FOR PLUMBING

PART 1 - GENERAL

0.1 COMMON WORK AND COORDINATION

A. THE PLANS AND SPECIFICATIONS ARE INTENDED TO BE COMPLEMENTARY. WORK SHALL BE PERFORMED AND MATERIALS SHALL BE FURNISHED IF SHOWN ON THE PLANS BUT NOT SPECIFIED OR VICE VERSA; OR IF REASONABLY IMPLIED; OR IF USUALLY INCLUDED; OR IF NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.
B. EXECUTE THE WORK IN THE BEST AND MOST THOROUGH MANNER, UNDER THE DIRECTION OF AND TO THE SATISFACTION OF THE ARCHITECTS AND ENGINEERS, WHO WILL INTERPRET THE MEANING OF THE DRAWINGS AND SPECIFICATIONS.
C. WHERE DISCREPANCIES OCCUR BETWEEN THE PLANS AND THE SPECIFICATIONS, OR WITHIN EITHER DOCUMENT ITSELF, THE ITEM OR ARRANGEMENT OF BETTER QUALITY OR HIGHER COST SHALL BE INCLUDED IN THE BASE BID.
D. THE DRAWINGS SHOW THE VARIOUS PIPING, ELECTRICAL AND DUCT SYSTEMS SCHEMATICALLY. NO ADDED COMPENSATION WILL BE PERMITTED FOR VARIATIONS DUE TO FIELD CONDITIONS. INSTALLATION SHALL FOLLOW DRAWINGS WHERE PRACTICABLE AND NOT BE IN CONFLICT WITH OTHER TRADES INSTALLATION.
E. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE CURRENTLY ADOPTED INTERNATIONAL PLUMBING CODE AND ALL LOCAL PLUMBING CODES.
F. CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS. THESE CONTRACT DOCUMENTS (DRAWINGS, PLANS AND SPECIFICATIONS) DESCRIBE THE MECHANICAL WORK FOR THIS PROJECT AND FORM A GUIDE FOR A COMPLETE INSTALLATION. COMPLY WITH APPLICABLE REQUIREMENTS OF RECOGNIZED INDUSTRY ASSOCIATIONS WHICH PROVIDE STANDARDS FOR THE VARIOUS TRADES.
G. SUPERVISE ALL WORK WITH SPECIFICALLY QUALIFIED PEOPLE IN THE VARIOUS DISCIPLINES. VISIT THE SITE AND BE INFORMED OF THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. RESOLVE INTERFERENCES BETWEEN WORK OF VARIOUS CONTRACTORS PRIOR TO INSTALLATION. NOTIFY GENERAL CONTRACTOR OF SIZE AND LOCATION OF ALL RECESSES AND OPENINGS REQUIRED FOR PLUMBING WORK. PROVIDE SUBMITTALS FOR APPROVAL ON ALL EQUIPMENT AND DEVICES.
H. CONTRACTOR SHALL AND HEREBY DOES GUARANTEE THAT ALL WORK INSTALLED UNDER THESE DOCUMENTS SHALL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR FORM THE DATE OF SUBSTANTIAL USAGE OR FINAL ACCEPTANCE UNLESS A LONGER PERIOD IS NOTED.
I. THE CONTRACTOR SHALL COORDINATE THE VOLTAGE AND PHASE OF EACH PIECE OF EQUIPMENT WITH THE ELECTRICAL CONTRACTOR BEFORE ORDERING ANY EQUIPMENT
J. ANY EXISTING PIPING OR EQUIPMENT NOT SHOWN OR NOTED ON THESE DRAWINGS ARE TO REMAIN.
K. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE DERIVED FROM LIMITED FIELD OBSERVATION. THESE DRAWINGS MAY NOT BE ALL INCLUSIVE OF SERVICES THAT EXIST IN THE PROJECT AREA. FIELD VERIFY EXISTING SERVICES, LOCATIONS, TYPE, AND SIZE PRIOR TO ANY WORK.
L. EXTEND EXISTING PIPING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING INSTALLATIONS.

PART 2 - PRODUCTS

A. ALL PRODUCTS USED FOR DISPENSING POTABLE DOMESTIC DRINKING WATER MUST BE LEAD FREE AND MEET THE REQUIREMENTS OF NSF 61 AND NSF 372 TEST STANDARDS VIA THIRD PARTY TESTING AND CERTIFICATION.
B. ALL MANUFACTURER PLUMBING FIXTURES SHALL BE KOHLER, ZURN, AMERICAN STANDARD, TOTO, ELKAY OR ELJER. FIXTURES SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED. STAINLESS STEEL SINKS SHALL BE JUST OR ELKAY ONLY. FLOOR DRAINS, HAMMER ARRESTORS, CARRIERS, AND TRAPS SHALL BE BY ZURN, J.R. SMITH OR JOSAM. WATER COOLERS SHALL BE OASIS, SUNROC OR ELKAY.
C. MODELS AND PART NUMBERS LISTED AS BASIS OF DESIGN ARE FOR DESIGN INTENT ONLY. VERIFY WITH MANUFACTURER AND REPORT ANY DISCREPANCIES TO ENGINEER PRIOR TO PURCHASE AND INSTALLATION.

PART 3 - EXECUTION

A. PROVIDE NON-CONDUCTING DIELECTRIC CONNECTIONS WHEREVER DISSIMILAR METALS ARE JOINED. ISOLATE ALL COPPER FROM STEEL SUPPORTS WITH PLASTIC SEPARATORS DESIGNED FOR PIPE ISOLATION.
B. PROVIDE ONLY MATERIALS RATED FOR USE IN RETURN AIR PLENUMS WHERE APPLICABLE.
C. ALL HORIZONTAL GRAVITY PIPING SHALL BE RUN BELOW FLOOR ON THE PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. ALL HORIZONTAL VENT PIPING SHALL BE RUN ABOVE FLOOR ON THE PLAN ON WHICH SHOWN, EXCEPT FOR VENT PIPING LEADING FROM FLOOR DRAINS, UNLESS OTHERWISE INDICATED.
D. THE LOCATION OF FLOOR DRAINS SHALL BE COORDINATED WITH THE LOCATION AND SIZE OF EQUIPMENT BEING SERVED PRIOR TO INSTALLATION.
E. COORDINATE EQUIPMENT CONNECTIONS WITH EQUIPMENT DRAWINGS AND MANUFACTURER REQUIREMENTS. INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS FURNISHING ISOLATION VALVES, P-TRAPS, CLEANOUTS AND PIPING AS REQUIRED FOR A FULLY FUNCTIONING AND SERVICEABLE SYSTEM.
F. COORDINATE PIPE ROUTING WITH ALL TRADES TO MAXIMIZE AVAILABLE CLEARANCES AND AVOID FIELD CONFLICTS. PROVIDE COORDINATION DRAWINGS IN AREAS WHERE HIGH POTENTIAL OF CONFLICTS EXIST. IN ALL CASES, ROUTE EXPOSED PIPING AS CLOSE AS POSSIBLE TO STRUCTURE.
G. FURNISH AND INSTALL HAMMER ARRESTORS ON ALL LINES SERVING QUICK CLOSING VALVES OR AS RECOMMENDED BY THE MANUFACTURER AND AS REQUIRED BY THE PLUMBING CODES.
H. INSTALL FIXTURES, EQUIPMENT AND PIPING SHOWN ON THESE DRAWINGS IN ACCORDANCE WITH ALL STATE AND LOCAL CODE REQUIREMENTS.
I. MAINTAIN ACCESSIBILITY OF VALVES, ARRESTORS, CLEANOUTS, ETC. AND OTHER COMPONENTS REQUIRING PERIODIC UTILIZATION, INSPECTION OR REPAIR. PROVIDE ACCESS PANELS WHERE NECESSARY.
J. COORDINATE PIPING INSTALLATION WITH ELECTRICAL EQUIPMENT. MAINTAIN WORKRING CLEARANCES AS SPECIFIED IN NATIONAL ELECTRICAL CODE AND AS REQUIRED BY STATE AND LOCAL CODES. NO PIPING SHALL BE INSTALLED OVER ELECTRICAL PANELS.
K. HORIZONTAL SANITARY BRANCHES SHALL CONNECT TO THE BASES OF STACKS AT A POINT LOCATED NOT LESS THAN 10 TIMES THE DIAMETER OF THE DRAINAGE STACK, DOWNSTREAM FROM THE STACK AND PER CURRENTLY ADOPTED IPC.
L. CLEANOUTS SHALL BE PROVIDED PER IPC SECTION 708.3 AND LOCAL CODE REQUIRMENTS EVEN IF NOT SHOWN ON DRAWINGS. FLOOR CLEANOUT TYPE IS TO MATCH FINISHED FLOOR MATERIAL APPLICATION. FLOOR CLEANOUT FINISH TO BE POLISHED BRONZE. WALL CLEANOUT FINISH TO BE CHROME.
M. SLOPE WASTE PIPING SMALLER THAN 3" AT 1/4" PER FOOT, PIPING 3" AND LARGER AT 1/8" PER FOOT, AND PIPING 8" AND LARGER AT 1/16" PER FOOT UNLESS OTHERWISE NOTED.
N. PROVIDE AUTOMATIC TRAP PRIMERS OR PROVENT/PROSET TRAP GUARDS AND NECESSARY PIPING FOR CONNECTION TO FLOOR SINKS, FLOOR DRAINS AND OTHER WASTE DRAIN RECEPTORS SUBJECT TO INFREQUENT USE PER IPC. LOCATIONS AND PRODUCTS ARE SUBJECT TO APPROVAL BY THE LOCAL BUILDING INSPECTOR.
O. PROVIDE SLEEVING, CUTTING, CORING AND PATCHING OF WALLS, FLOORS, ROOFS, FOOTINGS AND GRADE BEAMS (AFTER RECEIVING APPROVAL) WHERE REQUIRED FOR INSTALLATION OF WORK. PROVIDE SCANIING OF ALL EXISTING FLOORS/SLABS PRIOR TO CUTTING OR CORING.
P. PIPING AND CONDUIT PENETRATIONS THROUGH ALL FIRE AND/OR SMOKE RATED ASSEMBLIES (I.E. FLOORS, WALLS, CEILINGS, ETC.) SHALL BE INSTALLED WITH UL LISTED FIRE-STOP SYSTEMS PER CODE REQUIREMENTS.
Q. PIPING SHALL HAVE ALL BURRS REMOVED, PIPE ENDS REAMED, AND CHIPS REMOVED. PLASTIC PIPING INSTALLED ON PRESSURIZED SYSTEMS SHALL BE CUT WITH PROPER TOOL CUTTERS PER THE MANUFACTURERS INSTRUCTIONS. SAW CUTTING OF PIPE PRODUCING SHAVINGS AND BURRS IS NOT ACCEPTABLE.
R. THE CONTRACTOR SHALL OBTAIN AND PAY ALL FEES RELATED TO PERMITTING, INSPECTIONS, TAPS, ETC.
S. CONTRACTOR SHALL COORDINATE ANY PLUMBING SYSTEM REQUIRING SHUTDOWN WITH THE OWNER 48 HOURS IN ADVANCE.
T. THE ENTIRE DOMESTIC WATER SYSTEM SHALL BE DISINFECTED IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE.
U. RUN ALL PIPING LEVEL AND INLINE WITH BUILDING STRUCTURE EXCEPT FOR WHERE SLOPES ARE REQUIRED FOR DRAINING AND VENTING.
V. PROVIDE TRENCHING, EXCAVATION AND BACKFILLING NECESSARY FOR THE INSTALLATION OF PLUMBING WORK. TRENCHING AND EXCAVATION OF ROCK TO BE IN ACCORDANCE WITH GENERAL CONTRACTOR'S REQUIREMENTS. EXCAVATION TO BE 6" BELOW BOTTOM OF PIPE. FILL AROUND PIPE WITH SAND OR CLASS "B" CRUSHED STONE, WITH NO ROCK ABOVE.
W. TEST DRAINAGE AND VENTING SYSTEM BEFORE COVERAGE, WITH NECESSARY OPENINGS PLUGGED TO PERMIT SYSTEM TO BE FILLED WITH WATER AND SUBJECTED TO A WATER PRESSURE OF 10 FOOT HEAD. SYSTEM TO HOLD WATER FOR 30 MINUTES WITHOUT A WATER LEVEL DROP GREATER THAN 4" IN A 4" STANDPIPE AND WITHOUT VISIBLE LEAKAGE.
X. TEST THE HOT AND COLD WATER PIPING SYSTEM ON COMPLETION OF ROUGH-IN AND BEFORE CONNECTION TO FIXTURES AT A HYDROSTATIC PRESSURE OF 125 PSIG FOR ONE HOUR WITH NO LEAKS.
Y. ALL PLUMBING VENTS SHALL BE PLACED A MINIMUM OF 10 FEET FROM OUTDOOR AIR INTAKES AND OPERABLE WINDOWS.
Z. PROVIDE HANGERS, BRACES, INTERMEDIATE FRAMING SUPPORTS, ANCHORS AND MISCELLANEOUS DEVICES REQUIRED FOR PIPE AND EQUIPMENT INSTALLATIONS. PIPE HANGERS FOR ALL PIPING SHALL BE GRINNELL OR EQUAL WITH HANGER TYPE MATCHING SYSTEM REQUIREMENT.

SECTION 22 05 29 | HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT

PART 1 - GENERAL

0.1 SECTION REQUIREMENTS
A. SUBMITTALS:
1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
2. HANGERS AND SUPPORTS:
A. SHOP DRAWINGS: SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER.
B. WELDING CERTIFICATES.
C. STRUCTURAL STEEL WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND PERSONNEL ACCORDING TO AWSD1.1/D1.1M, "STRUCTURAL WELDING CODE - STEEL."
D. PIPE WELDING QUALIFICATIONS: QUALIFY PROCEDURES AND OPERATORS ACCORDING TO ASME BOILER AND PRESSURE VESSEL CODE.

PART 2 - PRODUCTS

0.1 PERFORMANCE REQUIREMENTS
A. HANGERS AND SUPPORTS FOR PLUMBING PIPING EQUIPMENT:
1. STRUCTURAL PERFORMANCE: HANGERS AND SUPPORTS SHALL WITHSTAND THE EFFECTS OF GRAVITY LOADS AND STRESSES WITHIN LIMITS AND UNDER CONDITIONS INDICATED ACCORDING TO ASCE/SEI 7.
A. DESIGN SUPPORTS FOR MULTIPLE PIPES CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS AND SYSTEM CONTENTS.
B. DESIGN EQUIPMENT SUPPORTS CAPABLE OF SUPPORTING COMBINED OPERATING WEIGHT OF SUPPORTED EQUIPMENT AND CONNECTED SYSTEMS AND COMPONENTS.
C. DESIGN SEISMIC-RESTRAINT HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT, AND OBTAIN APPROVAL FROM AUTHORITIES HAVING JURISDICTION.

0.2 HANGERS AND SUPPORTS FOR HVAC PIPING

A. CARBON-STEEL PIPE HANGERS AND SUPPORTS:
1. DESCRIPTION: MSS SP-58, TYPES 1 THROUGH 58, FACTORY-FABRICATED COMPONENTS.
2. GALVANIZED METALLIC COATINGS: PRE-GALVANIZED OR HOT DIPPED.
3. NONMETALLIC COATINGS: PLASTIC COATING, JACKET, OR LINER.
4. PADDED HANGERS: HANGER WITH FIBERGLASS OR OTHER PIPE INSULATION PAD OR CUSHION TO SUPPORT BEARING SURFACE OF PIPING.
5. HANGER RODS: CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF CARBON STEEL.
B. COPPER PIPE HANGERS:
1. DESCRIPTION: MSS SP-58, TYPES 1 THROUGH 58, COPPER-COATED STEEL, FACTORY-FABRICATED COMPONENTS.
2. HANGER RODS: CONTINUOUS-THREAD ROD, NUTS, AND WASHER MADE OF COPPER-COATED STEEL.
C. FASTENER SYSTEMS:
1. VERIFY SUITABILITY OF FASTENERS IN THIS ARTICLE FOR USE IN LIGHTWEIGHT CONCRETE OR CONCRETE SLABS LESS THAN 4 INCHES (100 MM) THICK.
2. POWDER-ACTUATED FASTENERS: THREADED-STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
3. MECHANICAL-EXPANSION ANCHORS: INSERT-WEDGE TYPE, ZINC-COATED ANCHORS, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE; WITH PULLOUT, TENSION, AND SHEAR CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED.
D. MISCELLANEOUS MATERIALS:
1. STRUCTURAL STEEL: ASTMA 36/A36M, CARBON-STEEL PLATES, SHAPES, AND BARS; BLACK AND GALVANIZED.
2. GROUT: ASTM C1107, FACTORY-MIXED AND PACKAGED, DRY, HYDRAULIC-CEMENT, NON-SHRINK AND NONMETALLIC GROUT; SUITABLE FOR INTERIOR AND EXTERIOR APPLICATIONS.
A. PROPERTIES: NON-STAINING, NON-CORROSIVE, AND NON-GASEOUS.
B. DESIGN MIX: 5,000 PSI (34.5 MPA), 28-DAY COMPRESSIVE STRENGTH.

PART 3 - EXECUTION

0.1 GENERAL PIPING INSTALLATIONS

A. INSTALL PIPING FREE OF SAGS AND BENDS.
B. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

0.2 HANGERS AND SUPPORTS

A. COMPLY WITH MSS SP-69 AND MSS SP-89. INSTALL BUILDING ATTACHMENTS WITHIN CONCRETE OR TO STRUCTURAL STEEL.
B. INSTALL HANGERS AND SUPPORTS TO ALLOW CONTROLLED THERMAL AND SEISMIC MOVEMENT OF PIPING SYSTEMS.
C. INSTALL POWDER-ACTUATED FASTENERS AND MECHANICAL-EXPANSION ANCHORS IN CONCRETE AFTER CONCRETE IS CURED. DO NOT USE IN LIGHTWEIGHT CONCRETE OR IN SLABS LESS THAN 4 INCHES (100 MM) THICK.
D. LOAD DISTRIBUTION: INSTALL HANGERS AND SUPPORTS SO PIPING LIVE AND DEAD LOADING AND STRESSES FROM MOVEMENT WILL NOT BE TRANSMITTED TO CONNECTED EQUIPMENT.
E. HORIZONTAL-PIPING HANGERS AND SUPPORTS: UNLESS OTHERWISE INDICATED AND EXCEPT AS SPECIFIED IN PIPING SYSTEM SPECIFICATION SECTIONS, INSTALL THE FOLLOWING TYPES:
1. ADJUSTABLE STEEL CLEVIS HANGERS (MSS TYPE 1): FOR SUSPENSION OF NON-INSULATED OR INSULATED STATIONARY PIPES, NPS 1/2" TO NPS 30" (DN 15 TO DN 750).
2. PIPE HANGERS (MSS TYPE 5): FOR SUSPENSION OF PIPES, NPS 1/2" TO NPS 4" (DN 15 TO DN 100).TO ALLOW OFF-CENTER CLOSURE FOR HANGER INSTALLATION BEFORE PIPE ERECTION.
3. ADJUSTABLE STEEL BAND HANGERS (MSS TYPE 7): FOR SUSPENSION OF NON-INSULATED STATIONARY PIPES, NPS 1/2" TO NPS 8" (DN 15 TO DN 200).
4. ADJUSTABLE BAND HANGERS (MSS TYPE 9): FOR SUSPENSION OF NON-INSULATED STATIONARY PIPES, NPS 1/2" TO NPS 8" (DN 15 TO DN 200).
5. ADJUSTABLE SWIVEL-RING BAND HANGERS (MSS TYPE 10): FOR SUSPENSION OF NON-INSULATED STATIONARY PIPES, NPS 1/2" TO NPS 2" (DN 15 TO DN 50).
F. VERTICAL-PIPING CLAMPS: UNLESS OTHERWISE INDICATED AND EXCEPT AS SPECIFIED IN PIPING SYSTEM SPECIFICATION SECTIONS, INSTALL THE FOLLOWING TYPES:
1. EXTENSION PIPE OR RISER CLAMPS (MSS TYPE 8): FOR SUPPORT OF PIPE RISERS, NPS 3/4" TO NPS 20" (DN 20 TO DN 500).
2. CARBON- OR ALLOY-STEEL RISER CLAMPS (MSS TYPE 42): FOR SUPPORT OF PIPE RISERS, NPS 3/4" TO NPS 20" (DN 20 TO DN 500), IF LONGER ENDS ARE REQUIRED FOR RISER CLAMPS.

0.3 HANGER SPACING

NOTE: VERIFY ACTUAL SUPPORTED LOADS FOR HANGER SIZES AND SPACING. CONSULT STRUCTURAL ENGINEER. SPACING AND SIZES IN SUBPARAGRAPHS BELOW ARE FROM THE 2000 ASHRAE HANDBOOK - "HVAC SYSTEMS AND EQUIPMENT."

A. INSTALL HANGERS FOR STEEL PIPING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:

PIPE SIZE	MAXIMUM SPAN	MINIMUM ROD SIZE
NPS 3/4" (DN 20)	7 FT (2.1 M)	1/4" (6.4 MM)
NPS 1" (DN 25)	7 FT (2.1 M)	1/4" (6.4 MM)
NPS 1-1/2" (DN 40)	9 FT (2.7 M)	3/8" (10 MM)
NPS 2" (DN 50)	10 FT (3 M)	3/8" (10 MM)

B. INSTALL HANGERS FOR DRAWN-TEMPER COPPER PIPING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:

PIPE SIZE	MAXIMUM SPAN	MINIMUM ROD SIZE
NPS 3/4" (DN 20)	5 FT (1.5 M)	1/4" (6.4 MM)
NPS 1" (DN 25)	6 FT (1.8 M)	1/4" (6.4 MM)
NPS 1-1/2" (DN 40)	8 FT (2.4 M)	3/8" (10 MM)
NPS 2" (DN 50)	8 FT (2.4 M)	3/8" (10 MM)
NPS 2-1/2" (DN 65)	9 FT (2.7 M)	3/8" (10 MM)
NPS 3" (DN 80)	10 FT (3 M)	3/8" (10 MM)

C. INSTALL HANGERS FOR COPPER TUBING WITH THE FOLLOWING MAXIMUM SPACING AND MINIMUM ROD SIZES:

PIPE SIZE	MAXIMUM SPAN	MINIMUM ROD SIZE
NPS 1/2" (DN 15)	5 FT (1.5 M)	1/4" (6.4 MM)
NPS 5/8" (DN 18)	5 FT (1.5 M)	1/4" (6.4 MM)
NPS 1" (DN 25)	6 FT (1.8 M)	1/4" (6.4 MM)
NPS 1-1/4" (DN 32)	8 FT (2.4 M)	3/8" (9.5 MM)
NPS 1-1/2" (DN 40)	8 FT (2.4 M)	3/8" (9.5 MM)
NPS 2" (DN 50)	8 FT (2.4 M)	3/8" (9.5 MM)
NPS 2-1/2" (DN 65)	9 FT (2.7 M)	3/8" (9.5 MM)
NPS 3" (DN 80)	10 FT (3 M)	3/8" (9.5 MM)
NPS 4" (DN 100)	12 FT (3.7 M)	1/2" (13 MM)

D. PLASTIC PIPING HANGER SPACING: SPACE HANGERS ACCORDING TO THE FOLLOWING AND PIPE MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SERVICE CONDITIONS. WHERE CONFLICTS MAY ARIRSE THE MOST STRINGENT (SMALLER) SPAN SHALL BE USED. AVOID POINT LOADING. SPACE AND INSTALL HANGERS WITH THE FEWEST PRACTICAL RIGID ANCHOR POINTS.
A. FOR ALL PVC, CPVC, ABS: MAXIMUM SPAN, 4 FEET.
B. FOR ALL PEX: MAXIMUM SPAN, 32 INCHES
E. SUPPORT VERTICAL RUNS AT ROOF, AT EACH FLOOR, AND AT 10 FOOT (3 M)INTERVALS BETWEEN FLOORS. INSTALL A MID-STORY GUIDE FOR PEX SIZED 2" AND SMALLER.

SECTION 22 07 00 | PLUMBING INSULATION

PART 1 - GENERAL

0.1 SECTION REQUIREMENTS

A. SUBMITTALS:
1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.
2. FOR ADHESIVES AND SEALANTS, DOCUMENTATION INCLUDING PRINTED STATEMENT OF VOC CONTENT AND CHEMICAL COMPONENTS.

PART 2 - PRODUCTS

0.1 PERFORMANCE REQUIREMENTS

A. INSULATION INSTALLED INDOORS: FLAME-SPREAD INDEX OF 25 OR LESS, AND SMOKE-DEVELOPED INDEX OF 50 OR LESS ACCORDING TO ASTM E 84.
B. INSULATION INSTALLED OUTDOORS: FLAME-SPREAD INDEX OF 75 OR LESS, AND SMOKE-DEVELOPED INDEX OF 150 OR LESS ACCORDING TO ASTM E 84.

0.2 INSULATION MATERIALS

A. FOAM INSULATION MATERIALS SHALL NOT USE CFC OR HCFC BLOWING AGENTS IN THE MANUFACTURING PROCESS.
B. "FLEXIBLE ELASTOMERIC INSULATION" PARAGRAPH BELOW IS UNSUITABLE FOR TEMPERATURES LOWER THAN MINUS 70°F (MINUS 57°C) AND HIGHER THAN 220°F (104° C).
C. FLEXIBLE ELASTOMERIC INSULATION: CLOSED-CELL, SPONGE OR EXPANDED-RUBBER MATERIALS. COMPLY WITH ASTM C 534, TYPE I FOR TUBULAR MATERIALS AND TYPE II FOR SHEET MATERIALS.
D. MINERAL-FIBER BLANKET INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. COMPLY WITH ASTM C 553, TYPE II AND ASTM C 1290, TYPE I. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.
E. MINERAL-FIBER, PREFORMED PIPE INSULATION:
F. MINERAL-FIBER, PIPE AND TANK INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN. SEMIRIGID BOARD MATERIAL WITH FACTORY-APPLIED ASJ OR FSK JACKET COMPLYING WITH ASTM C 1393, TYPE II OR TYPE IIIA CATEGORY 2, OR WITH PROPERTIES SIMILAR TO ASTM C 612, TYPE IB. NOMINAL DENSITY IS 2.5 LB/CU. FT. (40 KG/CU. M) OR MORE. THERMAL CONDUCTIVITY (K-VALUE) AT 100°F (55°C) IS 0.27 BTU • IN./H • SQ. FT. • ° F OR LESS. FACTORY-APPLIED JACKET REQUIREMENTS ARE SPECIFIED IN "FACTORY-APPLIED JACKETS" ARTICLE.
G. POLYOLEFIN: UNICELLULAR, POLYETHYLENE THERMAL PLASTIC INSULATION. COMPLY WITH ASTM C 534 OR ASTM C 1427, TYPE I, GRADE 1 FOR TUBULAR MATERIALS AND TYPE II, GRADE 1 FOR SHEET MATERIALS.

0.3 ADHESIVES

A. FLEXIBLE ELASTOMERIC AND POLYOLEFIN ADHESIVE: COMPLY WITH MIL-A-24179A, TYPE II, CLASS I.
1. FOR INDOOR APPLICATIONS, ADHESIVE SHALL HAVE A VOC CONTENT OF 50 G/L OR LESS.
B. MINERAL-FIBER ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A.
1. FOR INDOOR APPLICATIONS, ADHESIVE SHALL HAVE A VOC CONTENT OF 80 G/L OR LESS.
C. ASJ ADHESIVE, AND FSK JACKET ADHESIVE: COMPLY WITH MIL-A-3316C, CLASS 2, GRADE A FOR BONDING INSULATION JACKET LAP SEAMS AND JOINTS.
1. FOR INDOOR APPLICATIONS, ADHESIVE SHALL HAVE A VOC CONTENT OF 50 G/L OR LESS.

0.4 MASTICS

A. VAPOR-BARRIER MASTIC: WATER BASED; SUITABLE FOR INDOOR USE ON BELOW AMBIENT SERVICES.
1. FOR INDOOR APPLICATIONS, USE MASTICS THAT HAVE A VOC CONTENT OF 50 G/L OR LESS.
2. WATER-VAPOR PERMEANCE: ASTM E96/E96M, PROCEDURE B, 0.013 PERM (0.009 METRIC PERM) AT 43-MIL (1.09-MM) DRY FILM THICKNESS.
3. SERVICE TEMPERATURE RANGE: MINUS 20°F TO PLUS 180°F (MINUS 29°C TO PLUS 82°C).
4. SOLIDS CONTENT: ASTM D 1644, 58 PERCENT BY VOLUME AND 70 PERCENT BY WEIGHT.
5. COLOR: WHITE.
B. BREATHER MASTIC: WATER BASED; SUITABLE FOR INDOOR AND OUTDOOR USE ON ABOVE AMBIENT SERVICES.
1. WATER-VAPOR PERMEANCE: ASTM F 1249, 1.8 PERMS (1.2 METRIC PERMS) AT 0.0625-INCH (1.6-MM) DRY FILM THICKNESS.
2. SERVICE TEMPERATURE RANGE: MINUS 20°F TO PLUS 180°F (MINUS 29°C TO PLUS 82°C).
3. SOLIDS CONTENT: 60 PERCENT BY VOLUME AND 66 PERCENT BY WEIGHT.
4. COLOR: WHITE.

0.5 SEALANTS

A. JOINT SEALANTS FOR CELLULAR-GLASS PRODUCTS:
1. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES.
2. PERMANENTLY FLEXIBLE, ELASTOMERIC SEALANT.
3. SERVICE TEMPERATURE RANGE: MINUS 100°F TO PLUS 300° F (MINUS 73°C TO PLUS 149°C).
4. COLOR: WHITE OR GRAY.
5. RETAIN SUBPARAGRAPH BELOW IF LOW-EMITTING MATERIALS ARE REQUIRED. CONSULT SEALANT MANUFACTURERS TO DETERMINE VOC LIMITS.
6. FOR INDOOR APPLICATIONS, SEALANTS SHALL HAVE A VOC CONTENT OF 420 G/L OR LESS.

P. STUDIO
761 OLD HICKORY BLVD STE 301
BRENTWOOD, TN 37027
call | 615.258.5562
email | hello@paradymstudio.com

OLD GLORY RESTAURANT

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CHRIS LEHMAN — 12/22/23 — AGRICULTURE — COMMERCE — No. 111455 — STATE OF TENNESSEE

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PLLC | 400 SUGARTREE LN | STE 420
FRANKLIN, TN 37064 | 615.946.5428

ISSUED FOR
- [ ] Lease Outline Diagram
- [ ] Schematic Design
- [ ] Design

B. ASJ FLASHING SEALANTS, AND VINYL, PVDC, AND PVC JACKET FLASHING:
1. MATERIALS SHALL BE COMPATIBLE WITH INSULATION MATERIALS, JACKETS, AND SUBSTRATES.
2. FIRE-AND WATER-RESISTANT, FLEXIBLE, ELASTOMERIC SEALANT.
3. SERVICE TEMPERATURE RANGE: MINUS 40°F TO PLUS 250°F (MINUS 40° TO PLUS 121°C).
4. COLOR: WHITE.

RETAIN SUBPARAGRAPH BELOW IF LOW-EMITTING MATERIALS ARE REQUIRED. CONSULT SEALANT MANUFACTURERS TO DETERMINE VOC LIMITS.

5. FOR INDOOR APPLICATIONS, SEALANTS SHALL HAVE A VOC CONTENT OF 420 G/L OR LESS.

0.6 FACTORY-APPLIED JACKETS

A. INSULATION SYSTEM SCHEDULES INDICATE FACTORY-APPLIED JACKETS ON VARIOUS APPLICATIONS. WHEN FACTORY-APPLIED JACKETS ARE INDICATED, COMPLY WITH THE FOLLOWING:
1. ASJ: WHITE, KRAFT-PAPER, FIBERGLASS-REINFORCED SCRIM WITH ALUMINUM-FOIL BACKING; COMPLYING WITH ASTM C 1136, TYPE I.
2. ASJ-SSL: ASJ WITH SELF-SEALING, PRESSURE-SENSITIVE, ACRYLIC-BASED ADHESIVE COVERED BY A REMOVABLE PROTECTIVE STRIP; COMPLYING WITH ASTM C 1136, TYPE I.
3. FSK JACKET: ALUMINUM-FOIL, FIBERGLASS-REINFORCED SCRIM WITH KRAFT-PAPER BACKING; COMPLYING WITH ASTM C 1136, TYPE II.

0.7 TAPES

A. ASJ TAPE: WHITE VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE, COMPLYING WITH ASTM C 1136.
1. WIDTH: 3 INCHES (75 MM).
2. THICKNESS: 11.5 MILS (0.29 MM).
3. ADHESION: 90 OUNCES FORCE/INCH (1.0 N/MM) IN WIDTH.
4. ELONGATION: 2 PERCENT.
5. TENSILE STRENGTH: 40 LBF/INCH (7.2 N/MM) IN WIDTH.
6. ASJ TAPE DISKS AND SQUARES: PRECUT DISKS OR SQUARES OF ASJ TAPE.

B. FSK TAPE: FOIL-FACE, VAPOR-RETARDER TAPE MATCHING FACTORY-APPLIED JACKET WITH ACRYLIC ADHESIVE; COMPLYING WITH ASTM C 1136.
1. WIDTH: 3 INCHES (75 MM).
2. THICKNESS: 6.5 MILS (0.16 MM).
3. ADHESION: 90 OUNCES FORCE/INCH (1.0 N/MM) IN WIDTH.
4. ELONGATION: 2 PERCENT.
5. TENSILE STRENGTH: 40 LBF/INCH (7.2 N/MM) IN WIDTH.
6. FSK TAPE DISKS AND SQUARES: PRECUT DISKS OR SQUARES OF FSK TAPE.

PART 3 - EXECUTION

0.1 PIPE INSULATION INSTALLATION

A. COMPLY WITH REQUIREMENTS OF THE MIDWEST INSULATION CONTRACTORS ASSOCIATION'S "NATIONAL COMMERCIAL & INDUSTRIAL INSULATION STANDARDS" FOR INSULATION INSTALLATION ON PIPES AND EQUIPMENT.
B. INSULATION INSTALLATION AT INTERIOR WALL AND PARTITION PENETRATIONS (THAT ARE NOT FIRE RATED): INSTALL INSULATION CONTINUOUSLY THROUGH WALLS AND PARTITIONS.
C. INSULATION INSTALLATION AT FIRE-RATED WALL, PARTITION, AND FLOOR PENETRATIONS: INSTALL INSULATION CONTINUOUSLY THROUGH PENETRATIONS. SEAL PENETRATIONS. COMPLY WITH REQUIREMENTS IN SECTION 07 84 13 "PENETRATION FIRESTOPPING."
D. FLEXIBLE ELASTOMERIC INSULATION INSTALLATION:
1. SEAL LONGITUDINAL SEAMS AND END JOINTS WITH ADHESIVE TO ELIMINATE OPENINGS IN INSULATION THAT ALLOW PASSAGE OF AIR TO SURFACE BEING INSULATED.
2. INSULATION INSTALLATION ON PIPE FITTINGS AND ELBOWS: INSTALL MITERED SECTIONS OF PIPE INSULATION. SECURE INSULATION MATERIALS AND SEAL SEAMS WITH ADHESIVE TO ELIMINATE OPENINGS IN INSULATION THAT ALLOW PASSAGE OF AIR TO SURFACE BEING INSULATED.
E. MINERAL-FIBER INSULATION INSTALLATION:
1. INSULATION INSTALLATION ON STRAIGHT PIPES AND TUBES: WHERE VAPOR BARRIERS ARE INDICATED, SEAL LONGITUDINAL SEAMS, END JOINTS, AND PROTRUSIONS WITH VAPOR-BARRIER MASTIC AND JOINT SEALANT.
2. FOR INSULATION WITH FACTORY-APPLIED JACKETS ON ABOVE AMBIENT SURFACES, SECURE LAPS WITH OUTWARD CLINCHED STAPLES AT 6 INCHES (150 MM) O.C.
3. FOR INSULATION WITH FACTORY-APPLIED JACKETS ON BELOW AMBIENT SURFACES, DO NOT STAPLE LONGITUDINAL TABS BUT SECURE TABS WITH ADDITIONAL ADHESIVE AS RECOMMENDED BY INSULATION MATERIAL MANUFACTURER AND SEAL WITH VAPOR-BARRIER MASTIC AND FLASHING SEALANT.
F. POLYOLEFIN INSULATION INSTALLATION:
1. SEAL SPLIT-TUBE LONGITUDINAL SEAMS AND END JOINTS WITH ADHESIVE TO ELIMINATE OPENINGS IN INSULATION THAT ALLOW PASSAGE OF AIR TO SURFACE BEING INSULATED.
2. INSULATION INSTALLATION ON PIPE FITTINGS AND ELBOWS: INSTALL MITERED SECTIONS OF POLYOLEFIN PIPE INSULATION. SECURE INSULATION MATERIALS AND SEAL SEAMS WITH ADHESIVE TO ELIMINATE OPENINGS IN INSULATION THAT ALLOW PASSAGE OF AIR TO SURFACE BEING INSULATED.
G. INTERIOR PIPING SYSTEM APPLICATIONS: INSULATE THE FOLLOWING PIPING SYSTEMS:
1. DOMESTIC HOT WATER.
2. RECIRCULATED DOMESTIC HOT WATER.
3. ROOF DRAIN BODIES AND HORIZONTAL RAINWATER LEADERS OF STORM WATER PIPING.
4. EXPOSED WATER SUPPLIES AND SANITARY DRAINS OF FIXTURES FOR PEOPLE WITH DISABILITIES.
H. DO NOT APPLY INSULATION TO THE FOLLOWING SYSTEMS, MATERIALS, AND EQUIPMENT:
1. FLEXIBLE CONNECTORS.
2. SANITARY DRAINAGE AND VENT PIPING.
3. DRAINAGE PIPING LOCATED IN CRAWLSPACES UNLESS OTHERWISE INDICATED.
4. CHROME-PLATED PIPES AND FITTINGS, EXCEPT FOR PLUMBING FIXTURES FOR PEOPLE WITH DISABILITIES.
5. PIPING SPECIALTIES, INCLUDING AIR CHAMBERS, UNIONS, STRAINERS, CHECK VALVES, PLUG VALVES, AND FLOW REGULATORS.

0.2 INDOOR PIPING INSULATION SCHEDULE

NOTE: THIS ARTICLE SPECIFIES COMMONLY USED INSULATION MATERIALS AND THICKNESSES BY PIPE SIZE RANGE FOR EACH SERVICE. NOT ALL MATERIALS AND THICKNESSES MAY BE SUITABLE FOR A SPECIFIC PROJECT. REVISE TO SUIT PROJECT AFTER CONSIDERING ALL PARAMETERS THAT IMPACT SELECTION. DO NOT DUPLICATE REQUIREMENTS INSERTED IN PART 2. SEE THE EVALUATIONS FOR MORE INFORMATION AND GUIDANCE.
TUBULAR FLEXIBLE ELASTOMERIC IS NOT AVAILABLE IN SIZES LARGER THAN NPS 6 (DN 150). LARGER PIPE SIZES REQUIRE SHEETS TO BE CUT TO SIZE. THICKNESS IS LIMITED TO 1 INCH (25 MM) TO MEET A FLAME-SPREAD INDEX OF 25 AND A SMOKE-DEVELOPED INDEX OF 50. CONDENSATION CONTROL AND ENERGY EFFICIENCY ARE LIMITED BY THICKNESS.
TUBULAR POLYOLEFIN IS NOT AVAILABLE IN SIZES LARGER THAN NPS 4 (DN 100). LARGER PIPE SIZES REQUIRE SHEETS TO BE CUT TO SIZE. THICKNESS IS LIMITED TO 1 INCH (25 MM) TO MEET A FLAME-SPREAD INDEX OF 25 AND A SMOKE-DEVELOPED INDEX OF 50. CONDENSATION CONTROL AND ENERGY EFFICIENCY ARE LIMITED BY THICKNESS.

RETAIN "ONE OF" OPTION IN REMAINING SUBPARAGRAPHS IN THIS ARTICLE TO ALLOW CONTRACTOR TO SELECT PIPING MATERIALS FROM THOSE RETAINED.

EVALUATE THE NEED TO INSULATE DOMESTIC COLD WATER FOR CONDENSATION AND FREEZE PROTECTION.

A. UNLESS OTHERWISE INDICATED, DO NOT INSTALL INSULATION ON THE FOLLOWING:
1. DRAINAGE PIPING LOCATED IN CRAWLSPACES.
2. UNDERGROUND PIPING.
3. CHROME-PLATED PIPES AND FITTINGS UNLESS THERE IS A POTENTIAL FOR PERSONNEL INJURY.
B. DOMESTIC COLD WATER:
1. NPS 1" (DN 25) AND SMALLER: INSULATION SHALL BE:
2. FLEXIBLE ELASTOMERIC: 1/2 INCH (13 MM) THICK.
3. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1/2 INCH (13 MM) THICK.
4. NPS 1-1/4" (DN 32) AND LARGER: INSULATION SHALL BE ONE OF THE FOLLOWING:
A. FLEXIBLE ELASTOMERIC: 1 INCH (25 MM) THICK.
B. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH (25 MM) THICK.
C. DOMESTIC HOT AND RECIRCULATED HOT WATER:
1. ALL SIZES: INSULATION SHALL BE ONE OF THE FOLLOWING:
A. FLEXIBLE ELASTOMERIC: 3/4 INCH (19 MM) THICK.
B. MINERAL-FIBER, PREFORMED, TYPE I: 1 INCH (25 MM) THICK.
C. ROOF DRAIN AND OVERFLOW DRAIN BODIES:
1. ALL PIPE SIZES: INSULATION SHALL BE ONE OF THE FOLLOWING:
A. FLEXIBLE ELASTOMERIC: 1 INCH (25 MM) THICK.
B. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH (25 MM) THICK.
D. EXPOSED SANITARY DRAINS, DOMESTIC WATER, DOMESTIC HOT WATER, AND STOPS FOR PLUMBING FIXTURES FOR PEOPLE WITH DISABILITIES:
1. ALL PIPE SIZES: INSULATION SHALL BE ONE OF THE FOLLOWING:
1. FLEXIBLE ELASTOMERIC: 3/4 INCH (19 MM) THICK.
2. MINERAL-FIBER, PREFORMED PIPE INSULATION, TYPE I: 1 INCH (25 MM) THICK.

SECTION 22 11 16 | DOMESTIC WATER PIPING

PART 1 - GENERAL

0.1 SECTION REQUIREMENTS

A. SUBMITTALS:
1. PRODUCT DATA: FOR TRANSITION FITTINGS AND DIELECTRIC FITTINGS.
2. PRODUCT FOR SOLVENT CEMENTS AND ADHESIVE PRIMERS, DOCUMENTATION INCLUDING PRINTED STATEMENT OF VOC CONTENT.

PART 2 - PRODUCTS

0.1 PREFORMANCE REQUIREMENTS

A. POTABLE-WATER PIPING AND COMPONENTS SHALL COMPLY WITH NSF 14 AND NSF 61. PLASTIC PIPING COMPONENTS SHALL BE MARKED WITH "NSF-PW."

0.2 PIPE AND FITTINGS

A. HARD COPPER TUBING: ASTM B 88, TYPES L AND M (ASTM B 88M, TYPES B AND C), WATER TUBE, DRAWN TEMPER WITH WROUGHT-COPPER, SOLDER-JOINT FITTINGS. FURNISH WROUGHT-COPPER FITTINGS IF INDICATED.
1. COPPER UNIONS: CAST-COPPER-ALLOY, HEXAGONAL-STOCK BODY, WITH BALL-AND-SOCKET, METAL-TO-METAL SEATING SURFACES AND SOLDER-JOINT OR THREADED ENDS.
2. JOINING MATERIALS: USE ASTM B 813, WATER-FLUSHABLE, LEAD-FREE FLUX; ASTM B 32, LEAD-FREE-ALLOY SOLDER.
B. SOFT COPPER TUBING: ASTM B 88, TYPES K AND L (ASTM B 88M, TYPES A AND B), WATER TUBE, ANNEALED TEMPER WITH COPPER PRESSURE FITTINGS, CAST-COPPER-ALLOY OR WROUGHT-COPPER, SOLDER-JOINT FITTINGS. FURNISH WROUGHT-COPPER FITTINGS IF INDICATED.
1. JOINING MATERIALS: USE ASTM B 813, WATER-FLUSHABLE, LEAD-FREE FLUX; ASTM B 32, LEAD-FREE-ALLOY SOLDER.
C. GALVANIZED-STEEL PIPING: ASTM A53/A53M, SCHEDULE 40, GALVANIZED-STEEL PIPE, WITH ASME B16.4, CLASS 125, GALVANIZED, STANDARD PATTERN GRAY-IRON, THREADED FITTINGS.
D. CPVC PIPING: ASTM F441/F441M, SCHEDULE 40 PIPE WITH ASTM F 438, CPVC SCHEDULE 40 SOCKET-TYPE FITTINGS.
E. PEX TUBE AND FITTINGS: ASTM F 877, SDR 9 PEX TUBING AND ASTM F 1807, METAL INSERT-TYPE FITTINGS WITH COPPER OR STAINLESS-STEEL CRIMP RINGS.
1. MANIFOLD: ASTM F 877 PLASTIC OR CORROSION-RESISTANT-METAL ASSEMBLY, WITH A PLASTIC OR CORROSION-RESISTANT-METAL VALVE FOR EACH OUTLET.
F. PVC PIPING: ASTM D 1785, SCHEDULE 40 PIPE WITH ASTM D 2466, SCHEDULE 40, SOCKET-TYPE FITTINGS.
G. SPECIAL-DUTY VALVES:
1. CPVC AND PVC BALL, BUTTERFLY AND CHECK VALVES; MSS SP-122, WITH FULL-PORT BALL, SOCKET OR THREADED DETACHABLE END CONNECTORS, AND PRESSURE RATING NOT LESS THAN 150 PSIG (860 KPA) AT 73°F (23°C)
H. TRANSITION FITTINGS: MANUFACTURED PIPING COUPLING OR SPECIFIED PIPING SYSTEM FITTING. SAME SIZE AS PIPES TO BE JOINED AND PRESSURE RATING AT LEAST EQUAL TO PIPES TO BE JOINED.
I. FITTINGS IN "PLASTIC-TO-METAL TRANSITION FITTINGS" SUBPARAGRAPH BELOW ARE AVAILABLE IN AT LEAST NPS 1/2" TO NPS 2" (DN 15 TO DN 50).
1. PLASTIC-TO-METAL TRANSITION FITTINGS:
A. DESCRIPTION:
B. PVC OR PVC ONE-PIECE FITTING WITH MANUFACTURER'S SCHEDULE 80 EQUIVALENT DIMENSIONS.
C. ONE END WITH THREADED BRASS INSERT AND ONE SOLVENT-CEMENT-SOCKET OR THREADED END.
J. PLASTIC-TO-METAL TRANSITION UNIONS ARE AVAILABLE IN NPS 1/2" TO NPS 4" (DN 5 TO DN 100).
1. PLASTIC-TO-METAL TRANSITION UNIONS:
A. DESCRIPTION:
1. CPVC OR PVC FOUR-PART UNION.
2. BRASS OR STAINLESS-STEEL THREADED END.
3. SOLVENT-CEMENT-JOINT OR THREADED PLASTIC END.
4. RUBBER O-RING.
5. UNION NUT.
K. FLEXIBLE CONNECTORS: BRONZE, CORRUGATED-METAL TUBING WITH WIRE-BRAID COVERING. WORKING-PRESSURE RATING A MINIMUM OF 200 PSIG (1,380 KPA).

0.3 PRESSURE GAGES AND TEST PLUGS

A. DIRECT-MOUNTED, METAL-CASE, DIAL-TYPE PRESSURE GAGES:
1. STANDARD: ASME B40.100.
2. CASE: SEALED SOLID-FRONT, PRESSURE RELIEF TYPE(S); CAST ALUMINUM OR DRAWN STEEL 4 1/2-INCH (114-MM) NOMINAL DIAMETER.
3. MOVEMENT: MECHANICAL, WITH LINK TO PRESSURE ELEMENT AND CONNECTION TO POINTER.
4. DIAL: NONREFLECTIVE ALUMINUM WITH PERMANENTLY ETCHED SCALE MARKINGS GRADUATED IN PSI (KPA).
5. POINTER: DARK-COLORED METAL.
6. WINDOW: PLASTIC.
7. RING: METAL.
8. ACCURACY: GRADE B, PLUS OR MINUS 2 PERCENT OF MIDDLE HALF OF SCALE RANGE.
B. TEST PLUG: CORROSION-RESISTANT BRASS OR STAINLESS-STEEL BODY WITH TWO SELF-SEALING RUBBER CORE INSERTS AND GASKETED AND THREADED CAP, WITH EXTENDED STEM FOR UNITS TO BE INSTALLED IN INSULATED PIPING. MINIMUM PRESSURE AND TEMPERATURE RATING 500 PSIG AT 200°F (3,450 KPA AT 93°C).

PART 3 - EXECUTION

0.1 INSTALLATION

A. INSTALL PIPING FREE OF SAGS AND BENDS.
B. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.
C. INSTALL UNIONS AT FINAL CONNECTION TO EACH PIECE OF EQUIPMENT.
D. INSTALL DIELECTRIC UNIONS AND FLANGES TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS IN GAS PIPING.
E. INSTALL DIELECTRIC COUPLING AND NIPPLE FITTINGS TO CONNECT PIPING MATERIALS OF DISSIMILAR METALS IN WATER PIPING.
F. SOLDERED JOINTS: COMPLY WITH PROCEDURES IN ASTM B 828 UNLESS OTHERWISE INDICATED.
G. INSTALL SHUTOFF VALVE, HOSE-END DRAIN VALVE, STRAINER, PRESSURE GAGE, AND TEST TEE WITH VALVE, INSIDE THE BUILDING AT EACH DOMESTIC WATER SERVICE ENTRANCE.
H. INSTALL DOMESTIC WATER PIPING WITH MIN 0.25 PERCENT SLOPE DOWNWARD TOWARD DRAIN FOR HORIZONTAL PIPING AND PLUMB FOR VERTICAL PIPING.
I. RETAIN FIRST PARAGRAPH BELOW IF WATER METERS ARE INSIDE THE BUILDING.
J. ROUGH-IN DOMESTIC WATER PIPING FOR WATER-METER INSTALLATION ACCORDING TO UTILITY COMPANY'S REQUIREMENTS.
K. COMPLY WITH REQUIREMENTS IN SECTION 22 05 29 "HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT" FOR PIPE HANGER AND SUPPORT DEVICES.
L. INSTALL FLEXIBLE CONNECTORS IN SUCTION AND DISCHARGE PIPING CONNECTIONS TO EACH DOMESTIC WATER PUMP AND IN SUCTION AND DISCHARGE MANIFOLD CONNECTIONS TO EACH DOMESTIC WATER BOOSTER PUMP.

0.2 INSPECTING AND CLEANING

A. INSPECT AND TEST PIPING SYSTEMS AS FOLLOWS:
1. FILL DOMESTIC WATER PIPING. CHECK COMPONENTS TO DETERMINE THAT THEY ARE NOT AIR BOUND AND THAT PIPING IS FULL OF WATER.
2. TEST FOR LEAKS AND DEFECTS IN NEW PIPING AND PARTS OF EXISTING PIPING THAT HAVE BEEN ALTERED, EXTENDED, OR REPAIRED.
B. CLEAN AND DISINFECT POTABLE DOMESTIC WATER PIPING BY FILLING SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM (50 MG/L) OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO CHLORINE IS IN WATER COMING FROM SYSTEM AFTER THE STANDING TIME.

0.3 VALVE SCHEDULE

A. DRAWINGS INDICATE VALVE TYPES TO BE USED. WHERE SPECIFIC VALVE TYPES ARE NOT INDICATED, THE FOLLOWING REQUIREMENTS APPLY:
1. SHUTOFF DUTY: USE BRONZE BALL OR GATE VALVES FOR PIPING NPS 2" (DN 50) AND SMALLER. USE CAST-IRON BUTTERFLY OR GATE VALVES WITH FLANGED ENDS FOR PIPING NPS 2-1/2" (DN 65) AND LARGER.
2. THROTTLING DUTY: USE BRONZE BALL OR GLOBE VALVES FOR PIPING NPS 2" (DN 50) AND SMALLER. USE CAST-IRON BUTTERFLY VALVES WITH FLANGED ENDS FOR PIPING NPS 2-1/2" (DN 65) AND LARGER.
3. HOT-WATER-PIPING, BALANCING DUTY: CALIBRATED BALANCING VALVES.
4. DRAIN DUTY: HOSE-END DRAIN VALVES.
B. INSTALL GATE VALVES CLOSE TO MAIN ON EACH BRANCH AND RISER SERVING TWO OR MORE PLUMBING FIXTURES OR EQUIPMENT CONNECTIONS AND WHERE INDICATED.
C. INSTALL GATE OR BALL VALVES ON INLET TO EACH PLUMBING EQUIPMENT ITEM, ON EACH SUPPLY TO EACH PLUMBING FIXTURE NOT HAVING STOPS ON SUPPLIES, AND ELSEWHERE AS INDICATED.

NOTE: DELETE FIRST PARAGRAPH BELOW AND USE METAL VALVES IF TEMPERATURE RATING MAY BE EXCEEDED. COORDINATE SELECTION OF CPVC OR PVC WITH "SPECIAL-DUTY VALVES" PARAGRAPH IN "PIPE AND FITTINGS" ARTICLE.

D. CPVC AND PVC BALL, BUTTERFLY, AND CHECK VALVES MAY BE USED IN MATCHING PIPING MATERIALS.
E. INSTALL DRAIN VALVE AT BASE OF EACH RISER, AT LOW POINTS OF HORIZONTAL RUNS, AND WHERE REQUIRED TO DRAIN WATER DISTRIBUTION PIPING SYSTEM.
F. INSTALL SWING CHECK VALVE ON DISCHARGE SIDE OF EACH PUMP AND ELSEWHERE AS INDICATED.
G. INSTALL BALL VALVES IN EACH HOT WATER CIRCULATING LOOP AND DISCHARGE SIDE OF EACH PUMP.

SECTION 22 13 16 | SANITARY WASTE AND VENT PIPING

PART 1 - GENERAL

0.1 SECTION REQUIREMENTS

A. SUBMITTALS:
1. PRODUCT DATA: FOR EACH TYPE OF PRODUCT.
2. FOR SOLVENT CEMENTS AND ADHESIVE PRIMERS, DOCUMENTATION INCLUDING PRINTED STATEMENT OF VOC CONTENT.
3. SEISMIC QUALIFICATION CERTIFICATES: FOR WASTE AND VENT PIPING, ACCESSORIES, AND COMPONENTS, FROM MANUFACTURER.

0.2 FIELD CONDITIONS

NOTE: RETAIN PARAGRAPH BELOW IF INTERRUPTION OF EXISTING SANITARY WASTE SERVICE IS REQUIRED.

A. DO NOT INTERRUPT SERVICE TO FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER THE FOLLOWING CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY SERVICE ACCORDING TO REQUIREMENTS INDICATED:
1. NOTIFY ARCHITECT AND/OR OWNER NO FEWER THAN TWO DAYS IN ADVANCE OF PROPOSED INTERRUPTION OF SANITARY WASTE SERVICE AND DO NOT PROCEED WITHOUT WRITTEN PERMISSION.

PART 2 - PRODUCTS

0.1 PERFORMANCE REQUIREMENTS

A. COMPONENTS AND INSTALLATION SHALL BE CAPABLE OF WITHSTANDING THE FOLLOWING MINIMUM WORKING PRESSURE UNLESS OTHERWISE INDICATED:
1. SOIL, WASTE, AND VENT PIPING: 10 FOOT HEAD OF WATER (30 KPA).
2. WASTE, FORCE-MAIN PIPING: 50 PSIG (345 KPA) PSIG (1,035 KPA).
B. RETAIN "SEISMIC PERFORMANCE" PARAGRAPH BELOW WITH "SEISMIC QUALIFICATION CERTIFICATES" SUBPARAGRAPH IN "SECTION REQUIREMENTS" ARTICLE FOR PROJECTS REQUIRING SEISMIC DESIGN. MODEL BUILDING CODES AND ASCE/SEI 7 ESTABLISH CRITERIA FOR BUILDINGS SUBJECT TO EARTHQUAKE MOTIONS. VERIFY REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.
C. SEISMIC PERFORMANCE: SOIL, WASTE, AND VENT PIPING AND SUPPORT AND INSTALLATION SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE/SEI 7 AS REQUIRED BY LOCAL CODES AND BUILDING USE.
D. PIPING MATERIALS SHALL BEAR LABEL, STAMP, OR OTHER MARKINGS OF SPECIFIED TESTING AGENCY.
E. RETAIN PARAGRAPH BELOW IF NSF MARKINGS ARE REQUIRED.
F. COMPLY WITH NSF/ANSI 14, "PLASTICS PIPING SYSTEMS COMPONENTS AND RELATED MATERIALS," FOR PLASTIC PIPING COMPONENTS.

0.2 PIPES AND FITTINGS

A. COPPER DRAINAGE TUBE AND FITTINGS: ASTM B 306, TYPE DWV DRAWN TEMPER WITH ASME B16.23, CAST COPPER OR ASME B16.29, WROUGHT COPPER, SOLDER-JOINT FITTINGS.
1. COPPER FLANGES: ASME B16.24, CLASS 150, CAST COPPER WITH SOLDER-JOINT END.
2. FLANGE GASKET MATERIALS: ASME B16.21, FULL-FACE, FLAT, NON-METALLIC, ASBESTOS-FREE, 1/8 INCH (3.2-MM) MAXIMUM THICKNESS UNLESS THICKNESS OR SPECIFIC MATERIAL IS INDICATED.
3. FLANGE BOLTS AND NUTS: ASME B18.2.1, CARBON STEEL UNLESS OTHERWISE INDICATED.
4. SOLDER: ASTM B 32, LEAD FREE WITH ASTM B 813, WATER-FLUSHABLE FLUX.
B. HUB-AND-SPIGOT CAST-IRON SOIL PIPE AND FITTINGS: ASTM A 74, SERVICE CLASS; ASTM C 564 RUBBER GASKETS.
C. HUBLESS CAST-IRON SOIL PIPE AND FITTINGS: ASTM A 888 OR CISPI 301.
D. CAST-IRON, HUBLESS-PIPING COUPLINGS:
1. STANDARD: ASTM C 1277.
2. DESCRIPTION: TWO-PIECE ASTM A48/A48M, CAST-IRON HOUSING; STAINLESS-STEEL BOLTS AND NUTS; AND ASTM C 564, RUBBER SLEEVE WITH INTEGRAL, CENTER PIPE STOP.
E. CISPI, HUBLESS-PIPING COUPLINGS:
1. STANDARDS: ASTM C 1277 AND CISPI 310.
2. DESCRIPTION: STAINLESS-STEEL CORRUGATED SHIELD WITH STAINLESS-STEEL BANDS AND TIGHTENING DEVICES; AND ASTM C 564, RUBBER SLEEVE WITH INTEGRAL, CENTER PIPE STOP.
F. PVC PLASTIC, DWV PIPE AND FITTINGS: ASTM D 2665, SCHEDULE 40, PLAIN ENDS WITH PVC SOCKET-TYPE, DWV PIPE FITTINGS.
1. ADHESIVE PRIMER: ASTM F 656.
A. ADHESIVE PRIMER SHALL HAVE A VOC CONTENT OF 550 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).
2. SOLVENT CEMENT: ASTM D 2564.
A. VC SOLVENT CEMENT SHALL HAVE A VOC CONTENT OF 510 G/L OR LESS WHEN CALCULATED ACCORDING TO 40 CFR 59, SUBPART D (EPA METHOD 24).

PART 3 - EXECUTION

0.1 PIPING INSTALLATION

A. INSTALL CAST-IRON SOIL PIPING ACCORDING TO CISPI'S "CAST IRON SOIL PIPE AND FITTINGS HANDBOOK," CHAPTER IV, "INSTALLATION OF CAST IRON SOIL PIPE AND FITTINGS."
B. INSTALL WALL PENETRATION SYSTEM AT EACH PIPE PENETRATION THROUGH FOUNDATION WALL. MAKE INSTALLATION WATERTIGHT. COMPLY WITH REQUIREMENTS IN IPC FOR WALL PENETRATION SYSTEMS.
C. MAKE CHANGES IN DIRECTION FOR SOIL AND WASTE DRAINAGE AND VENT PIPING USING APPROPRIATE BRANCHES, BENDS, AND LONG-SWEEP BENDS. SANITARY TEES AND SHORT-SWEEP 1/4-BENDS MAY BE USED ON VERTICAL STACKS IF CHANGE IN DIRECTION OF FLOW IS FROM HORIZONTAL TO VERTICAL. USE LONG-TURN, DOUBLE WYE-BRANCH AND 1/8-BEND FITTINGS IF TWO FIXTURES ARE INSTALLED BACK TO BACK OR SIDE BY SIDE WITH COMMON DRAIN PIPE. STRAIGHT TEES, ELBOWS, AND CROSSES MAY BE USED ON VENT LINES. DO NOT CHANGE DIRECTION OF FLOW MORE THAN 90 DEGREES. USE PROPER SIZE OF STANDARD INCREASERS AND REDUCERS IF PIPES OF DIFFERENT SIZES ARE CONNECTED. REDUCING SIZE OF DRAINAGE PIPING IN DIRECTION OF FLOW IS PROHIBITED.
D. DO NOT ENCLOSE, COVER, OR PUT PIPING INTO OPERATION UNTIL IT IS INSPECTED AND APPROVED BY AUTHORITIES HAVING JURISDICTION.
E. COMPLY WITH REQUIREMENTS IN SECTION 22 11 13 "FACILITY WATER DISTRIBUTION PIPING" FOR BASIC PIPING JOINT CONSTRUCTION.
F. SOLDERED JOINTS: USE ASTM B 813, WATER-FLUSHABLE, LEAD-FREE FLUX; ASTM B 32, LEAD-FREE-ALLOY SOLDER; AND ASTM B 828 PROCEDURE UNLESS OTHERWISE INDICATED.
G. COMPLY WITH REQUIREMENTS IN SECTION 22 05 29 "HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT" FOR PIPE HANGER AND SUPPORT DEVICES.

SECTION 22 33 00 | ELECTRIC, DOMESTIC WATER HEATERS

PART 1 - GENERAL

0.1 SECTION REQUIREMENTS

A. SUBMITTALS:
1. PRODUCT DATA: FOR EACH TYPE AND SIZE OF DOMESTIC-WATER HEATER.
2. DOCUMENTATION INDICATING THAT UNITS COMPLY WITH APPLICABLE REQUIREMENTS IN ASHRAE/IESNA 90.1, SECTION 7, "SERVICE WATER HEATING."
3. NOTE: RETAIN "SEISMIC QUALIFICATION CERTIFICATES" SUBPARAGRAPH BELOW IF REQUIRED BY SEISMIC CRITERIA APPLICABLE TO PROJECT. COORDINATE WITH SECTIONS SPECIFYING MECHANICAL VIBRATION, SUPPORTS, AND SEISMIC CONTROLS. SEE ASCE/SEI 7 FOR CERTIFICATION REQUIREMENTS FOR EQUIPMENT AND COMPONENTS.
4. SEISMIC QUALIFICATION CERTIFICATES: FOR COMMERCIAL DOMESTIC-WATER HEATERS, ACCESSORIES, AND COMPONENTS, FROM MANUFACTURER.
5. NOTE: RETAIN "DOMESTIC-WATER HEATER LABELING" SUBPARAGRAPH BELOW IF PLUMBING CODES FOR PROJECT AREA REQUIRE DOMESTIC-WATER HEATERS TO BE INDEPENDENT-TESTING-AGENCY CERTIFIED. VERIFY AVAILABILITY FOR UNITS RETAINED.
6. DOMESTIC-WATER HEATER LABELING: CERTIFIED AND LABELED BY TESTING AGENCY ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
B. WARRANTIES: SUBMIT A WRITTEN WARRANTY EXECUTED BY MANUFACTURER AGREEING TO REPAIR OR REPLACE WATER HEATERS THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, TANKS AND ELEMENTS.

PART 2 - PRODUCTS

0.1 PERFORMANCE REQUIREMENTS

NOTE: RETAIN "SEISMIC PERFORMANCE" PARAGRAPH BELOW WITH "SEISMIC QUALIFICATION CERTIFICATES" SUBPARAGRAPH IN "SECTION REQUIREMENTS" ARTICLE FOR PROJECTS REQUIRING SEISMIC DESIGN.

A. SEISMIC PERFORMANCE: COMMERCIAL DOMESTIC-WATER HEATERS SHALL WITHSTAND THE EFFECTS OF EARTHQUAKE MOTIONS DETERMINED ACCORDING TO ASCE/SEI 7 AS REQUIRED BY LOCAL CODES AND BUILDING USE.
B. COMPLY WITH REQUIREMENTS OF APPLICABLE NSF, AWWA, OR FDA AND EPA REGULATORY STANDARDS FOR TASTELESS AND ODORLESS, POTABLE-WATER-TANK LININGS.
C. COMPLY WITH PERFORMANCE EFFICIENCIES PRESCRIBED IN ASHRAE 90.2, "ENERGY EFFICIENT DESIGN OF NEW LOW-RISE RESIDENTIAL BUILDINGS."

0.2 WATER HEATERS, GENERAL

A. INSULATION: SUITABLE FOR OPERATING TEMPERATURE AND REQUIRED INSULATING VALUE. INCLUDE INSULATION MATERIAL THAT SURROUNDS ENTIRE TANK EXCEPT CONNECTIONS AND CONTROLS.
B. ANODE RODS: FACTORY INSTALLED, MAGNESIUM.
C. COMBINATION TEMPERATURE AND PRESSURE RELIEF VALVE: ASME RATED AND STAMPED AND COMPLYING WITH ASME PTC 25.3. INCLUDE RELIEVING CAPACITY AT LEAST AS GREAT AS HEAT INPUT AND PRESSURE SETTING LESS THAN WATER HEATER WORKING-PRESSURE RATING. SELECT RELIEF VALVE WITH SENSING ELEMENT THAT EXTENDS INTO TANK.
D. DRAIN VALVE: FACTORY OR FIELD INSTALLED.

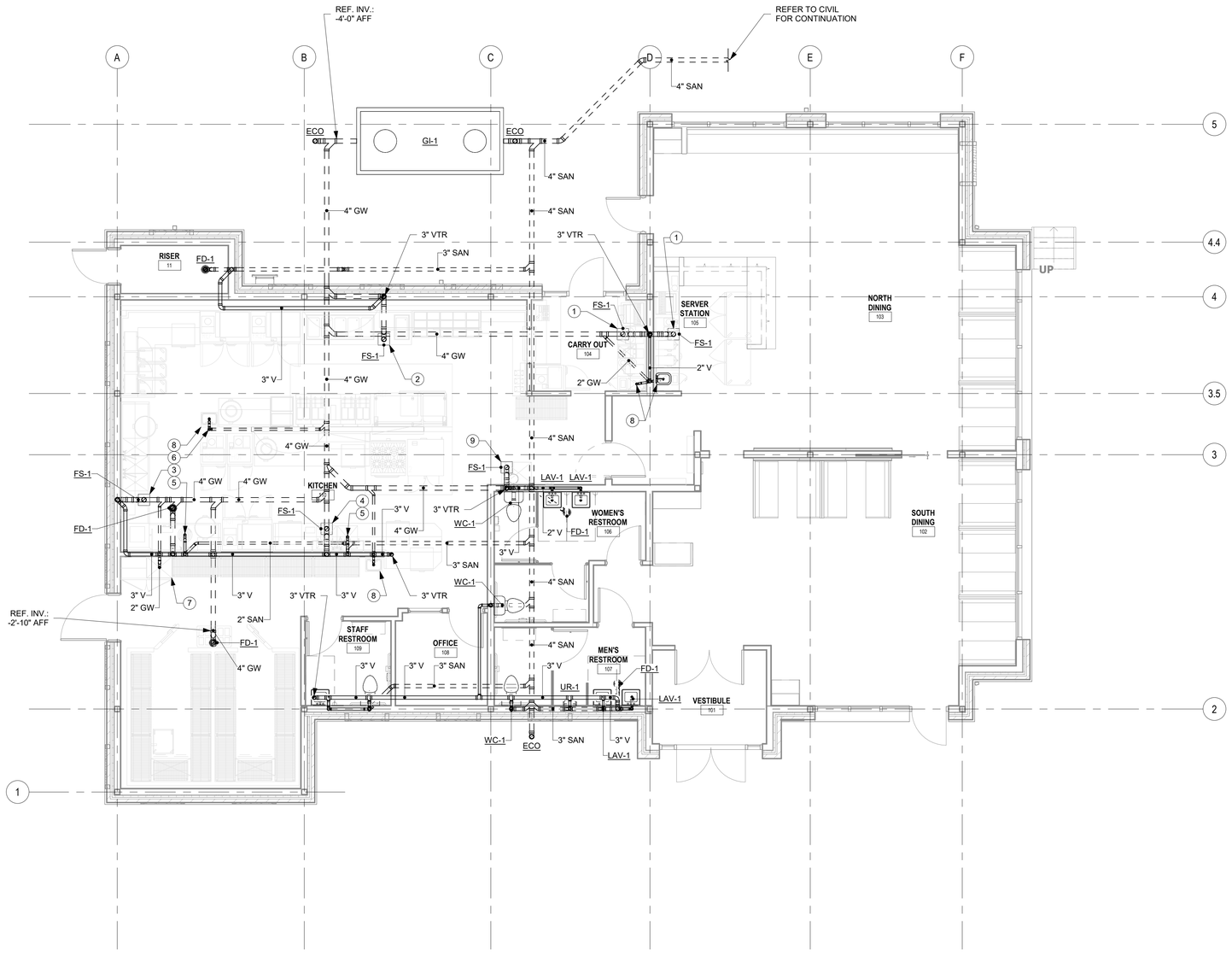
0.3 ELECTRIC WATER HEATERS

A. COMMERCIAL, STORAGE, ELECTRIC WATER HEATERS:
1. LOCHINVAR, AO SMITH, BRADFORD WHITE
2. STANDARD UL 174 BUT LISTED BY MANUFACTURER FOR COMMERCIAL APPLICATIONS. STEEL TANK WITH 150-PSIG (1,035-KPA) WORKING-PRESSURE RATING ASME LABELED AS REQUIRED BY PLANS. MULTIPLE ELECTRIC, SCREW-IN, IMMERSION-TYPE HEATING ELEMENTS WITH ADJUSTABLE THERMOSTAT FOR EACH ELEMENT AND WIRING ARRANGEMENT FOR SIMULTANEOUS OPERATION WITH MAXIMUM 60 AMP CIRCUIT.

PART 3 - EXECUTION

0.1 INSTALLATION

A. FACTORY INSTALLED TEMPERATURE AND PRESSURE RELIEF VALVES. INSTALL DRAIN PIPING WITH MINIM



OWNER-PROVIDED EQUIPMENT

ALL UNTAGGED PLUMBING FIXTURES ARE OWNER-PROVIDED U.N.O., SEE KITCHEN EQUIPMENT PLANS FOR DETAIL

SANITARY AND VENT KEYNOTES

1. FLOOR SINK TO RECEIVE 1" INDIRECT DISCHARGE OF COFFEE BREWERS, TEA BREWERS, AND SODA DISPENSER
2. FLOOR SINK TO RECEIVE 1" INDIRECT DISCHARGE OF 5-WELL HOT FOOD UNIT AND 1-WELL HOT FOOD UNIT
3. FLOOR SINK TO RECEIVE 2" INDIRECT DISCHARGE OF THREE-COMPARTMENT SINK AND DISHWASHER
4. FLOOR SINK TO RECEIVE 2" INDIRECT DISCHARGE OF PREP TABLE SINK
5. FOOD DISPOSER TO DIRECT DISCHARGE TO SANITARY SYSTEM
6. VENT SINK VIA AIR ADMITTANCE VALVE, ACCESSIBLE FOR SERVICE PER IPC
7. MOP SINK AND CABINET, DIRECT DISCHARGE
8. HAND SINK, DIRECT DISCHARGE
9. FLOOR SINK TO RECEIVE 2" INDIRECT DISCHARGE OF ICE MAKER AND BIN

1 SANITARY AND VENT FLOOR PLAN
3/16" = 1'-0"

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ISSUED FOR

- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS

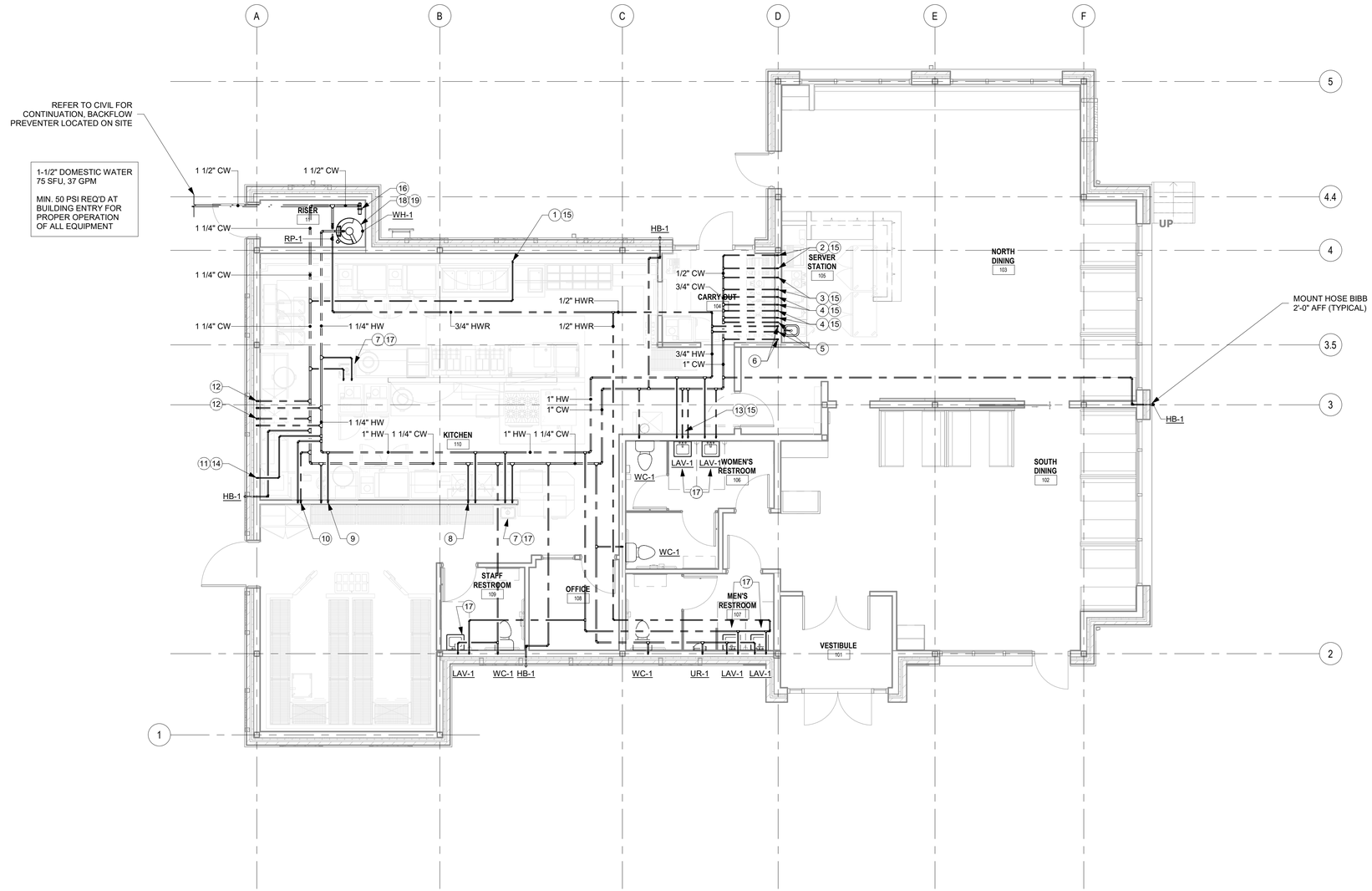
PROJECT NUMBER: 23079

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DATE: 12.22.2023

DRAWING SANITARY AND VENT FLOOR PLAN

P101



1 DOMESTIC WATER FLOOR PLAN
3/16" = 1'-0"

OWNER-PROVIDED EQUIPMENT

ALL UNTAGGED PLUMBING FIXTURES ARE OWNER-PROVIDED U.N.O., SEE KITCHEN EQUIPMENT PLANS FOR DETAIL

DOMESTIC WATER KEYNOTES

1. 1/2" CW TO FILL FAUCET
2. 1/2" CW TO SODA DISPENSER
3. 1/2" CW TO COFFEE BREWER
4. 1/2" CW TO TEA BREWER
5. 1/2" CW, 1/2" HW TO SERVER STATION HAND SINK
6. 1/2" CW, 1/2" HW TO BEVERAGE COUNTER HAND SINK
7. 1/2" CW, 1/2" HW TO HAND SINK
8. 1/2" CW, 1/2" HW TO PREP TABLE SINK
9. 3/4" CW, 1/2" HW TO PRE-RINSE FAUCET
10. 3/4" CW, 3/4" HW TO MOP SINK CABINET
11. 1/2" HW TO DISHWASHER
12. 3/4" CW, 3/4" HW TO THREE-COMP SINK FAUCET
13. 1/2" CW TO ICE MAKER FILTER
14. WATER HAMMER ARRESTOR AT DISHWASHER RUNOUT
15. INSTALL INLINE BACKFLOW PREVENTER AT APPLIANCE CONNECTION
16. INSTALL BUILDING ISOLATION VALVE AND PRESSURE REDUCING VALVE SET TO 80 PSI PRIOR TO SERVING ANY EQUIPMENT
17. INSTALL THERMOSTATIC MIXING VALVE SET TO MAX. 120°F AT HAND SINKS AND LAV's
18. ROUTE WATER HEATER INTAKE AND EXHAUST PIPE TO/FROM CONCENTRIC VENT KIT AT ROOF FOR SEPARATED COMBUSTION
19. ROUTE WATER HEATER CONDENSATE AND OVERFLOW TO FLOOR DRAIN IN RISER ROOM

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ISSUED FOR

- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS

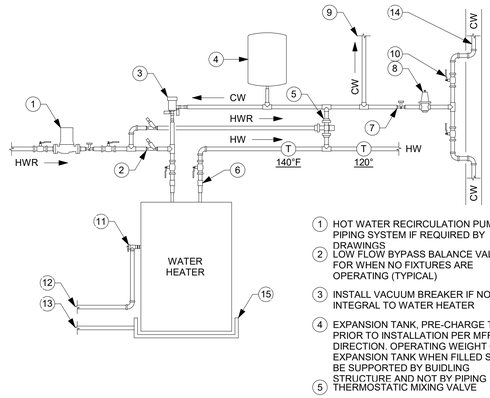
PROJECT NUMBER: 23079

DRAWN BY: BR

DATE: 12.22.2023

DRAWING DOMESTIC WATER FLOOR PLAN

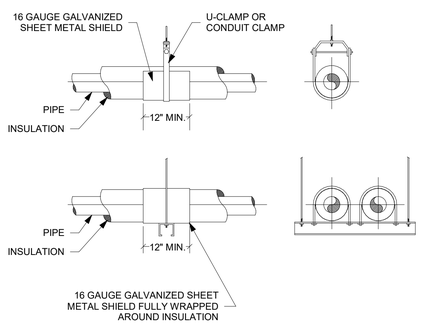
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1. HOT WATER RECIRCULATION PUMP AND PIPING SYSTEM IF REQUIRED BY DRAWINGS
2. LOW FLOW BYPASS BALANCE VALVE FOR WHEN NO FIXTURES ARE OPERATING (TYPICAL)
3. INSTALL VACUUM BREAKER IF NOT INTEGRAL TO WATER HEATER
4. EXPANSION TANK, PRE-CHARGE TANK PRIOR TO INSTALLATION PER MFR DIRECTION. OPERATING WEIGHT OF EXPANSION TANK WHEN FILLED SHALL BE SUPPORTED BY BUIDLING STRUCTURE AND NOT BY PIPING
5. THERMOSTATIC MIXING VALVE
6. UNION FITTING (TYPICAL)
7. CHECK VALVE (TYPICAL)
8. PRESSURE REDUCING VALVE SET TO 80 PSI PER IPC 604.8
9. COLD WATER TO SERVE TENANT/UNIT PLUMBING FIXTURES PER PLANS
10. BALL VALVE FOR ISOLATION AND SERVICE (TYPICAL)
11. MFR TEMPERATURE AND PRESSURE RELIEF VALVE FOR WATER HEATER
12. ROUTE WATER HEATER DRAIN TO SERVICE SINK, HUB, DRAIN, OR FLOOR DRAIN PER PLANS WITH INDIRECT CONNECTION PER IPC AND LOCAL AHJ
13. AUXILIARY DRAIN FROM PAN SHALL BE MINIMUM 1" OR EQUAL TO SIZE OF RELIEF VALVE IF LARGER
15. BUILDING WATER MAIN IN WALL OR ABOVE CEILING, SEE PLANS FOR DETAIL
16. MIN. 1-1/2" DEEP DRAIN PAN BENEATH WATER HEATER PER IPC 504.7

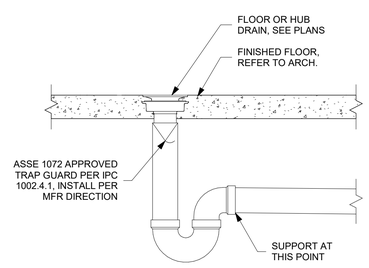
DOMESTIC WATER AND WATER HEATER ENTRY AND ISOLATION SCHEMATIC

NO SCALE



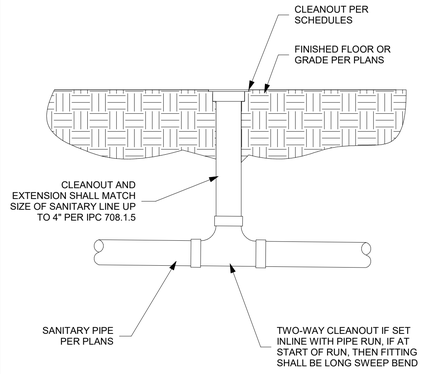
PIPE HANGERS DETAIL

NO SCALE



FLOOR OR HUB DRAIN WITH TRAP GUARD

NO SCALE



TWO-WAY CLEANOUT

NO SCALE

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OLD GLORY RESTAURANT

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- [ ] Lease Outline Diagram
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- [x] Construction

REVISIONS

PROJECT NUMBER:
23079

DRAWN BY:
BR

DATE:
12.22.2023

DRAWING
PLUMBING DETAILS

P501

PIPE SCHEDULE						
SYSTEM	SERVICE	LOCATION	SIZE	MATERIAL	INSULATION	NOTES
CW	DOMESTIC COLD WATER	ABOVE GROUND	1" AND BELOW	PEX-A, ASTM F 877	3/4" ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
			1-1/4" AND ABOVE	SCH. 80 PVC, ASTM D 1785	3/4" ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
				TYPE L COPPER, ASTM B 88	3/4" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
		UNDER GROUND	ALL	TYPE L COPPER, ASTM B 88	3/4" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
HW / HWR	DOMESTIC HOT WATER (SUPPLY AND RETURN)	ABOVE GROUND	1" AND BELOW	PEX-A, ASTM F 877	3/4" ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
			1-1/4" AND ABOVE	SCH. 80 CPVC, ASTM F 437	3/4" ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
				TYPE L COPPER, ASTM B 88	3/4" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
		UNDER GROUND	ALL	TYPE L COPPER, ASTM B 88	3/4" AP ARMAFLEX CLOSED-CELL ELASTOMERIC, ASTM C 534	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
SAN	SANITARY	ALL	ALL	HUBLESS CAST IRON, ASTM A 888	-	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
		ALL	ALL	SCH. 40 PVC, DWV, ASTM D 2665	-	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
GW	GREASE WASTE	ALL	ALL	HUBLESS CAST IRON, ASTM A 888	-	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
		ALL	ALL	SCH. 40 PVC, DWV, ASTM D 2665	-	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
VENT	VENT	ALL	ALL	HUBLESS CAST IRON, ASTM A 888	-	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS
		ALL	ALL	SCH. 40 PVC, DWV, ASTM D 2665	-	FITTINGS AND JOINTS PER SPECS, HEAT TRACE IN EXPOSED AREAS PER PLANS

NOTES:
ALL PIPING INSTALLED IN MECHANICAL CLOSETS OR PLENUM AREAS TO BE CAST IRON, CPVC, OR TYPE L COPPER REGARDLESS OF SIZE, SEE SCHEDULE FOR APPLICATION
ALL EXPOSED PIPING AND PIPING MANIFOLDS TO BE TYPE L COPPER OR CAST IRON REGARDLESS OF PIPE SIZE, SEE SCHEDULE FOR APPLICATION
SUPPORT ALL PIPING PER SPECS
LABEL ALL PIPING PER ASME A13.1 STANDARDS

SANITARY CLEANOUT COVER SCHEDULE	
FCO = FLOOR CLEANOUT, ECO = EXTERIOR CLEANOUT, WCO = WALL CLEANOUT	
FCO	ZURN ZN-1400-CM ADJ. CLEANOUT WITH NICKEL BRONZE TOP, CARPET MARKER
FCO	ZURN ZN-1400-X ADJ. CLEANOUT WITH NICKEL BRONZE TOP RECESSED FOR TILE, LINOLEUM OR COMPOSITE FLOORS
FCO	ZURN ZN-1400-Z ADJ. CLEANOUT WITH NICKEL BRONZE TOP RECESSED FOR TERRAZO FLOORS
FCO	ZURN ZN-1400 ADJ. CLEANOUT WITH NICKEL BRONZE TOP FOR CONCRETE FLOORS
ECO	ZURN ZN-1400-HD ADJ. CLEANOUT WITH HEAVY-DUTY NICKEL BRONZE TOP
WCO	ZURN ZN-1441 WALL CLEANOUT WITH NO-HUB TEE WITH ABS PLUG, STAINLESS STEEL ACCESS COVER

GREASE INTERCEPTOR SCHEDULE								
UNIT NO.	UNIT MODEL	MANUFACTURER	TYPE	GREASE CAP. (LBS)	CONNECTION SIZE (IN.)	DIMENSIONS (IN.)	WEIGHT (LBS)	ACCESSORIES
GI-1	STANDARD	JARRETT CONCRETE	CONCRETE	1,500	4"	154" x 70" x 61"	17,750	1,2,3,4
1. TRAFFIC-RATED CONSTRUCTION 2. MONOLITHIC TANK DESIGN 3. ASTM C-1227, 990, 923 COMPLIANT 4. MFR INTERNAL HDPE WALL LINING								

PUMP SCHEDULE									
UNIT NO.	UNIT MODEL	MANUFACTURER	SERVICE	TYPE	FLOW RATE (GPM)	TDH (FT. W.C.)	VOLT / PH / HZ	MOTOR POWER (HP)	ACCESSORIES
RP-1	e3-4V BUPYZ	BELL & GOSSETT	HOT WATER	INLINE	4	3	120 / 1 / 60	10 W	1,2,3
1. NON-FUSED DISCONNECT 2. RATED FOR DOMESTIC WATER USE, LEAD-FREE ALL CAST BRONZE VOLUTE 3. DISCHARGE BALANCE VALVE									

PLUMBING FIXTURE SPECIFICATIONS								
TAG	DESCRIPTION	BRAND	MODEL	CW	HW	SAN	VENT	REMARKS
WC-1	FLUSH-TANK WATER CLOSET	KOHLER	K-3551	3/4"	-	3"	2"	TWO-PIECE TOILET, ELONGATED BOWL, 1.28 GPF, ASME/CSA/ADA COMPLIANT, MFR QUIET-CLOSE ELONGATED TOILET SEAT, BUMPERS AND HARDWARE
UR-1	URINAL	ZURN	Z5765-U	-	-	2"	1-1/2"	0.5 GPF, VITREOUS CHINA, WALL HUNG WITH INTEGRAL TRAP, WASHDOWN URINAL WITH 3/4" TOP SPUD CONNECTION, 2" OUTLET
	MANUAL FLUSH VALVE	ZURN	Z6003	3/4"	-	-	-	0.5 GPF, ALL BRASS INTERNALS, 3/4" VACUUM BREAKER, SPUD COUPLING AND FLANGE, CHROME FINISH, ADA COMPLIANT
LAV-1	WALL-MOUNT LAVATORY	KOHLER	K-2035-1	-	-	1-1/4"	1-1/4"	WALL MOUNT LAVATORY, SINGLE HOLE, VITREOUS CHINA, WHITE, ADA AND ASME COMPLIANT, OVAL BASIN WITH OVERFLOW AND SINK SHROUD
	FAUCET	DELTA	559 HA-DST	1/2"	1/2"	-	-	TRINSIC COLLECTION, SINGLE HOLE, 1.2 GPM, PUSH-POP DRAIN, ASME/ANSI COMPLIANT, SWIVEL SPOUT, CHROME SLIP-JOINT INLET, AND SUPPLY STOPS
FS-1	FLOOR SINK	ZURN	Z1900 OR Z1900-KC	-	-	4"	3"	SANI-FLOR RECEPTOR, 12" x 12" x 6" CAST IRON BODY WITH SQUARE, MFR LIGHT-DUTY GRATE WITH SLOTTED OPENINGS, COORDINATE GRATE COVERAGE WITH OWNER/GC, INSTALL Z1900-KC MODEL FOR NON-GRADE APPLICATIONS, CONTRACTOR TO VERIFY
FD-1	FLOOR DRAIN	ZURN	Z415B	-	-	-	-	LIGHT DUTY HEEL-PROOF STRAINER, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBO MEMBRANE CLAMP AND ADJ. COLLAR, POLISHED NICKEL BRONZE
HB-1	HOSE BIBB/WALL HYDRANT	ZURN	Z1321XL	3/4"	-	-	-	EXPOSED, ECOLOTROL, LEAD-FREE, NON-FREEZE, AUTO-DRAIN, INTEGRAL BACKFLOW PREVENTER, 3/4" MALE INLET, 3/4" MALE OUTLET, LOCKABLE WITH KEY
STANDARD REQUIREMENTS: 1. FIXTURES MUST COMPLY WITH ICC A117.1, ADA, EPA FLOW RATES, AND NSF 61 LEAD-FREE STANDARDS 2. ALL PUBLIC AND GUESTROOM LAVATORIES SHALL HAVE THERMOSTATIC MIXING VALVES TO MEET ASSE 1070 3. ALL SHOWERS SHALL HAVE THERMOSTATIC VALVES TO MEET ASSE 1016 4. ALL FIXTURES SHALL MEET IPC, STATE AND LOCAL CODES FOR BACKFLOW REQUIREMENTS AND APPROVAL 5. INSTALL FIXTURES PER ADA REQUIREMENTS WHERE REQUIRED - REFER TO ARCHITECTURE FOR OFFICIAL ADA UNIT LOCATIONS 6. PROVIDE SUBMITTALS ON ALL FIXTURES TO OWNER/ARCHITECT FOR APPROVAL 7. COORDINATE ALL PLUMBING FIXTURE FINISH OPTIONS WITH OWNER/ARCHITECT/INTERIORS PRIOR TO PURCHASE AND INSTALLATION								

GAS WATER HEATER SCHEDULE													
UNIT NO.	MANUFACTURER	UNIT MODEL	SERVICE	STORAGE (GAL)	FLOW RECOVERY (GPH)	VOLT / PH / HZ	FUEL	INPUT (MBH)	OUTPUT (MBH)	GAS PRESSURE (IN. W.C.)	E.W.T. / L.W.T. (°F)	TANK DIAMETER (IN.)	TANK HEIGHT (IN.)	ACCESSORIES
WH-1	AO SMITH	BTH-199(A)	HOT WATER	100	235	120 / 1 / 60	NATURAL GAS	199.9	193.9	7" - 10"	40° / 140°	27-3/4"	75-1/2"	1,2,3,4,5,6,7
1. MFR SEPARATED COMBUSTION SYSTEM 2. MFR CONCENTRIC WALL INTAKE/EXHAUST KIT 3. MFR ACID CONDENSATE NEUTRALIZATION KIT 4. MFR TEMPERATURE AND PRESSURE RELIEF VALVE 5. MFR VACUUM BREAKER VALVE ON COLD WATER INLET LINE 6. ASME 125 PSI RATED STORAGE TANK, GALVANIZED PAINTED JACKET, 2" FOAM, R-13 MINIMUM 7. DRAIN PAN													

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REGISTERED ARCHITECT
AGRICULTURE
12/22/23
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No. 111457
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- [ ] Schematic Design
- [ ] Design Development
- [x] Construction

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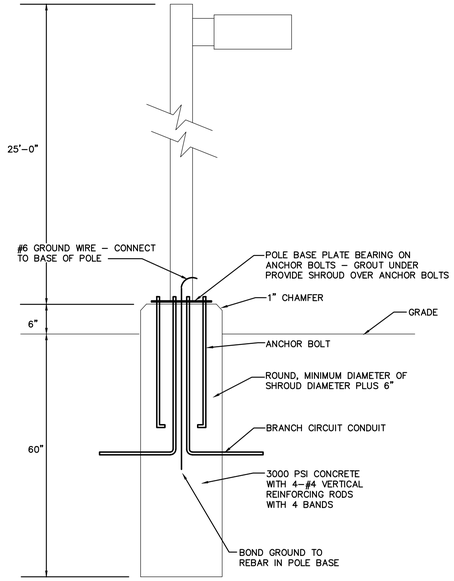
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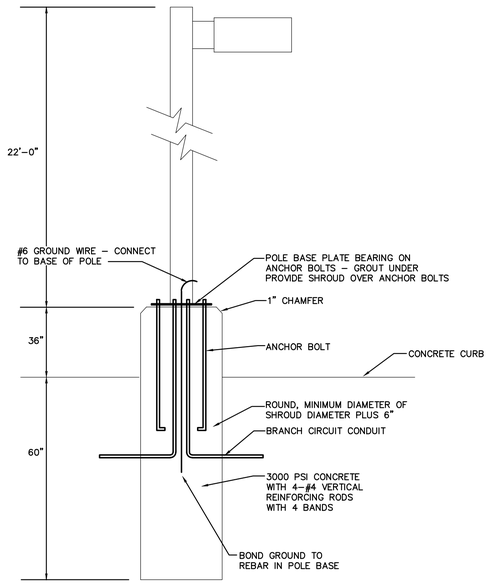
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PLUMBING SCHEDULES

P601



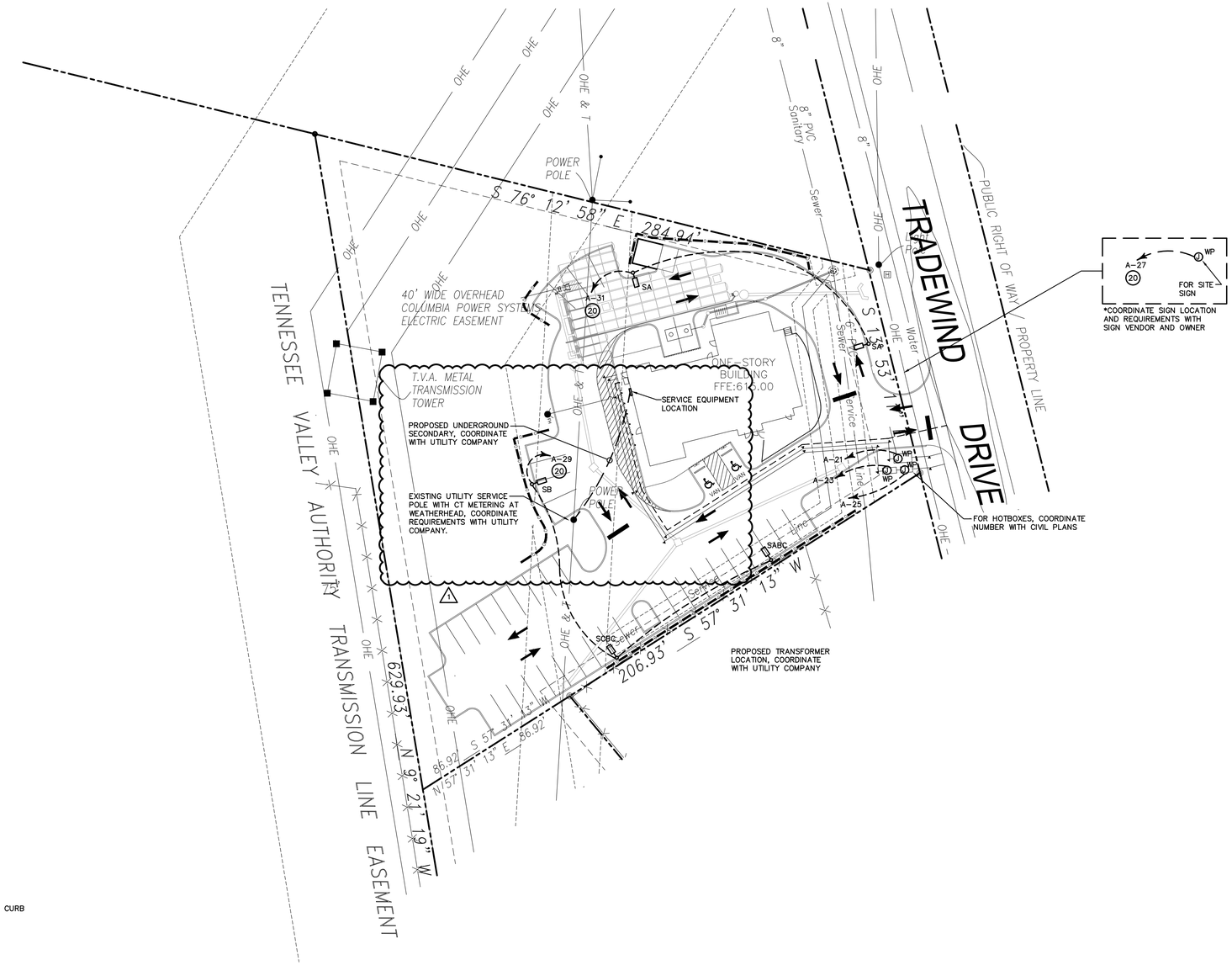
POLE LIGHT FIXTURE "SA" & "SB" DETAIL

NO SCALE
POLE BASE DETAIL PROVIDED FOR SCOPE AND BID PURPOSES.
CONTRACTOR SHALL SUBMIT A POLE BASE DESIGN SUITABLE FOR LOCAL CONDITIONS AND APPROVED BY A STRUCTURAL ENGINEER.



POLE LIGHT FIXTURE "SABC" & "SCBC" DETAIL

NO SCALE
POLE BASE DETAIL PROVIDED FOR SCOPE AND BID PURPOSES.
CONTRACTOR SHALL SUBMIT A POLE BASE DESIGN SUITABLE FOR LOCAL CONDITIONS AND APPROVED BY A STRUCTURAL ENGINEER.



SITE LIGHT FIXTURE SCHEDULE

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Lumens per Lamp	LLF	Wattage	Voltage	Pole Height
	SA	2	EXO	ASL1-160L-115-4K7-4W-U	MICROSTRIKE	LED, B-70-CRI, 4000K	1	15234	0.95	109.7	UNV	25' Pole
	SABC	1	EXO	ASL1-160L-135-4K7-4W-BC	AIRO MICROSTRIKE WITH BACKLIGHT CONTROL	LED, B-70-CRI, 4000K	1	10918	0.95	133.3	UNV	22' Pole
	SB	1	EXO	ASL1-160L-135-4K7-5QW-U	MICROSTRIKE	LED, B-70-CRI, 4000K	1	18033	0.95	133.1	UNV	25' Pole
	SCBC	1	EXO	ASL1-160L-135-4K7-3-BC	AIRO MICROSTRIKE WITH BACKLIGHT CONTROL	LED, B-70-CRI, 4000K	1	12245	0.95	133.3	UNV	22' Pole

*COORDINATE FIXTURE FINISH WITH ARCHITECT.
*PROVIDE POLE COMPATIBLE WITH FIXTURE.

1 SITE ELECTRICAL PLAN
1" = 30'-0"

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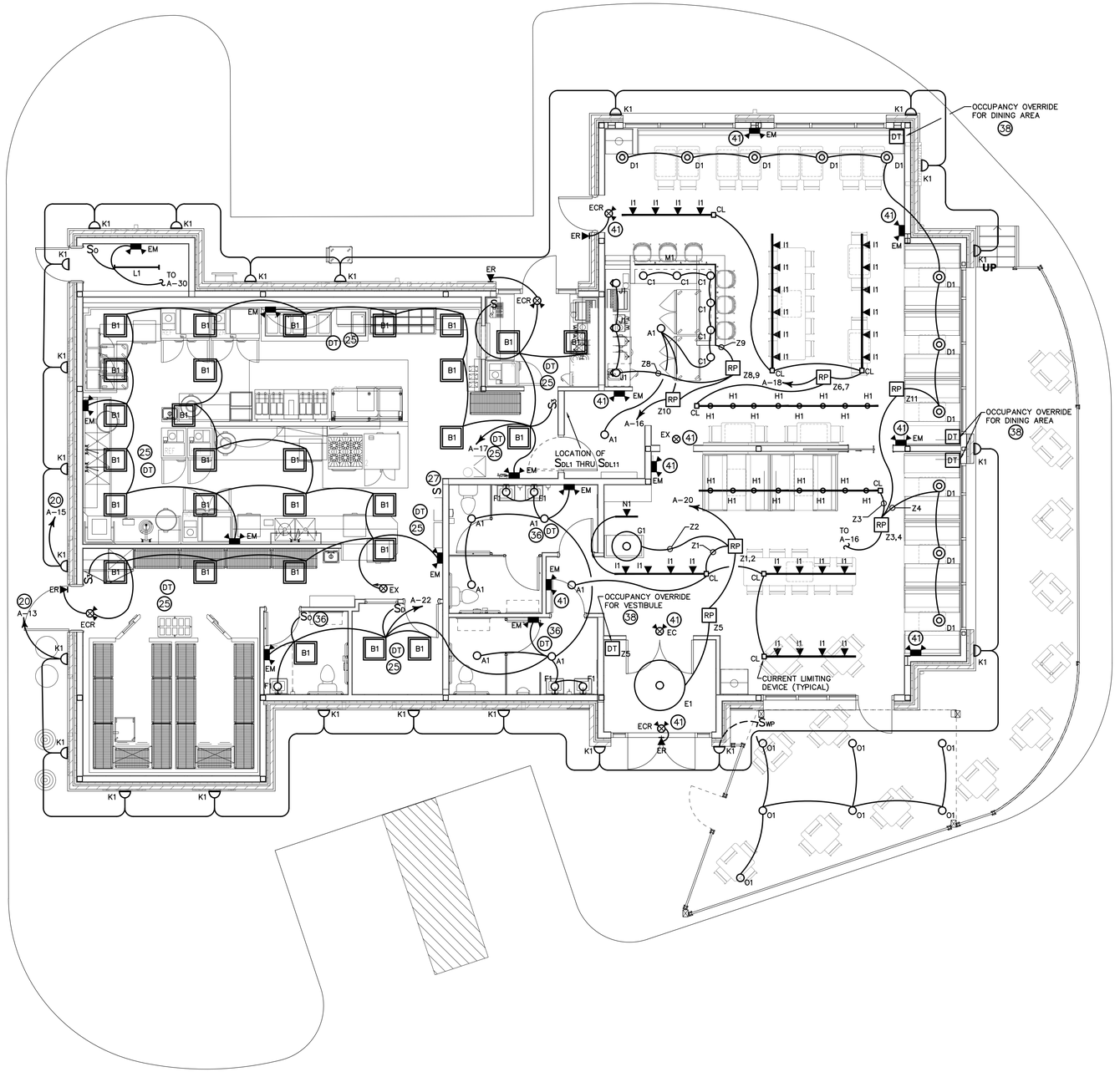
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- ☐ Schematic Design
- ☐ Design Development
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1 ADD #01 02/01/24

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E001

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Project: 23228 Drawing: 23228-E001 (Revision #01).dwg



COORDINATE ALL LIGHT FIXTURE MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL PLANS

1 LIGHTING PLAN
3/16" = 1'-0"

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DRAWING
LIGHTING PLAN

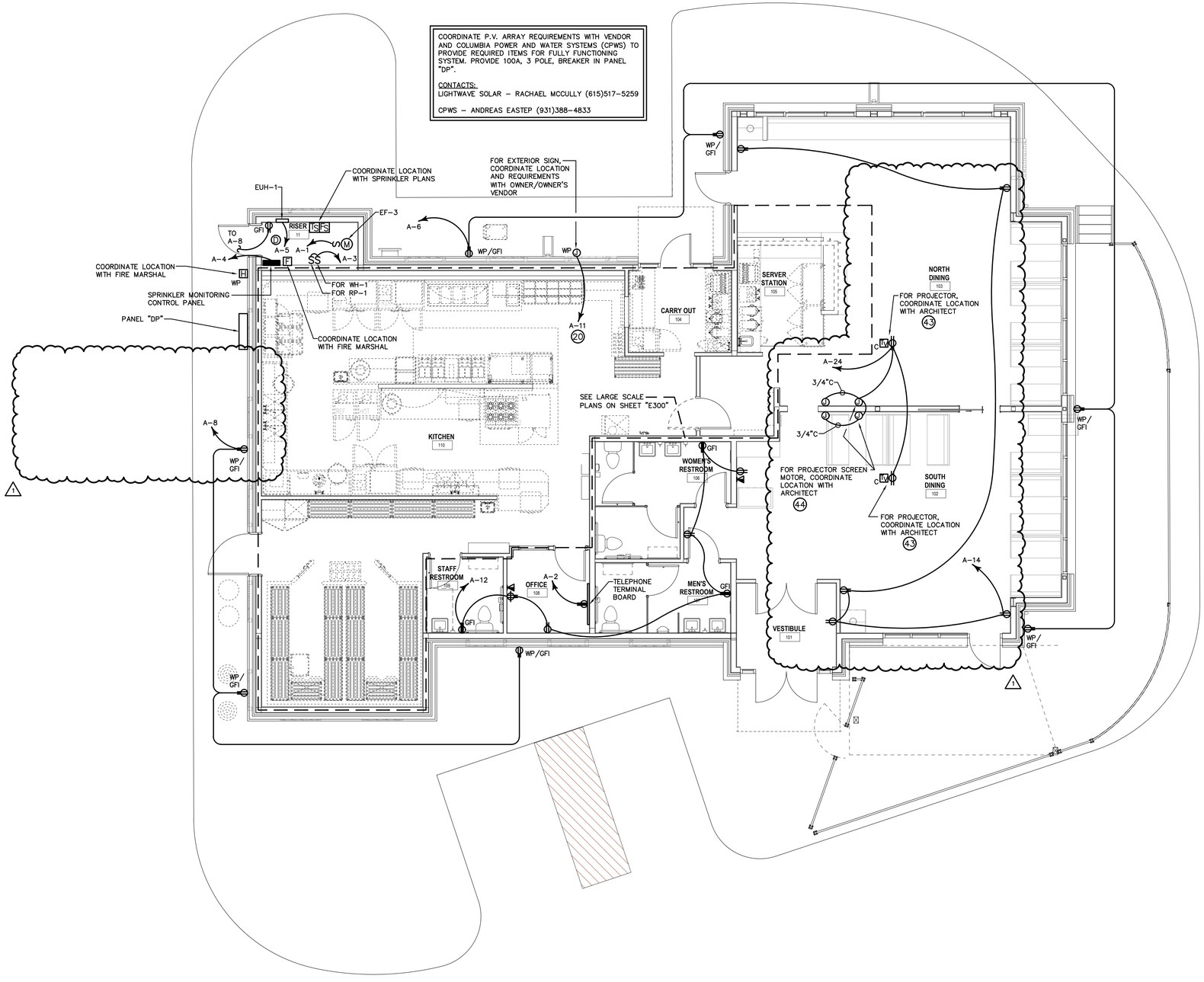
E100

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Project: 23228 Drawing: 23228-E100-E200.dwg

COORDINATE P.V. ARRAY REQUIREMENTS WITH VENDOR AND COLUMBIA POWER AND WATER SYSTEMS (CPWS) TO PROVIDE REQUIRED ITEMS FOR FULLY FUNCTIONING SYSTEM. PROVIDE 100A, 3 POLE, BREAKER IN PANEL "DP".

CONTACTS:
LIGHTWAVE SOLAR – RACHAEL MCCULLY (615)517-5259

CPWS – ANDREAS EASTEP (931)388-4833



1 POWER/SYSTEMS PLAN
3/16" = 1'-0"

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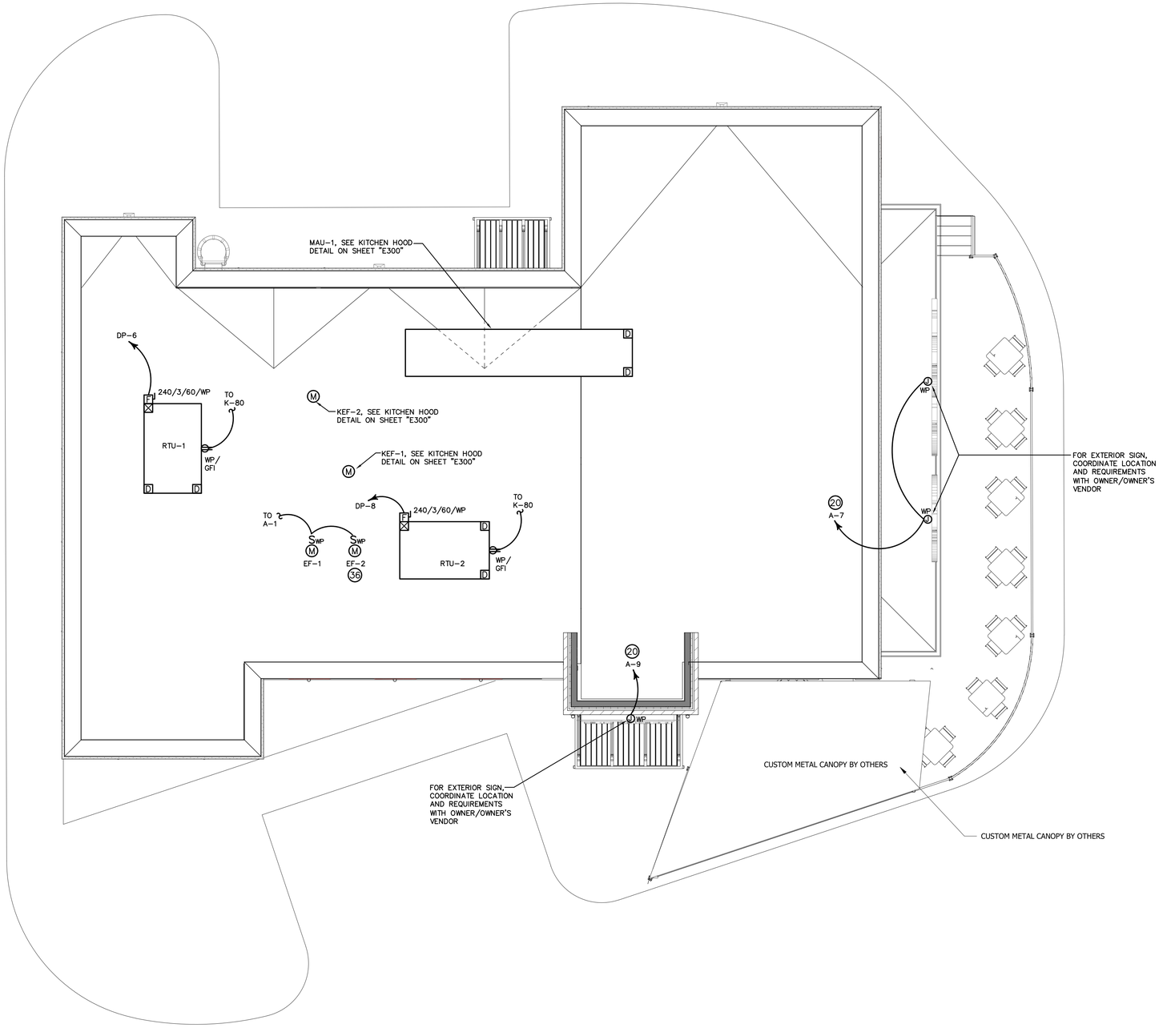
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1 ADD #01 02/01/24

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DATE: 12.22.23
DRAWING POWER/SYSTEMS PLAN

E101

Project: 23228 Drawing: 23228-E100-E200 (Revision #01).dwg



1 ROOF POWER PLAN

3/16" = 1'-0"

Project: 23228 Drawing: 23228-E100-E200.dwg

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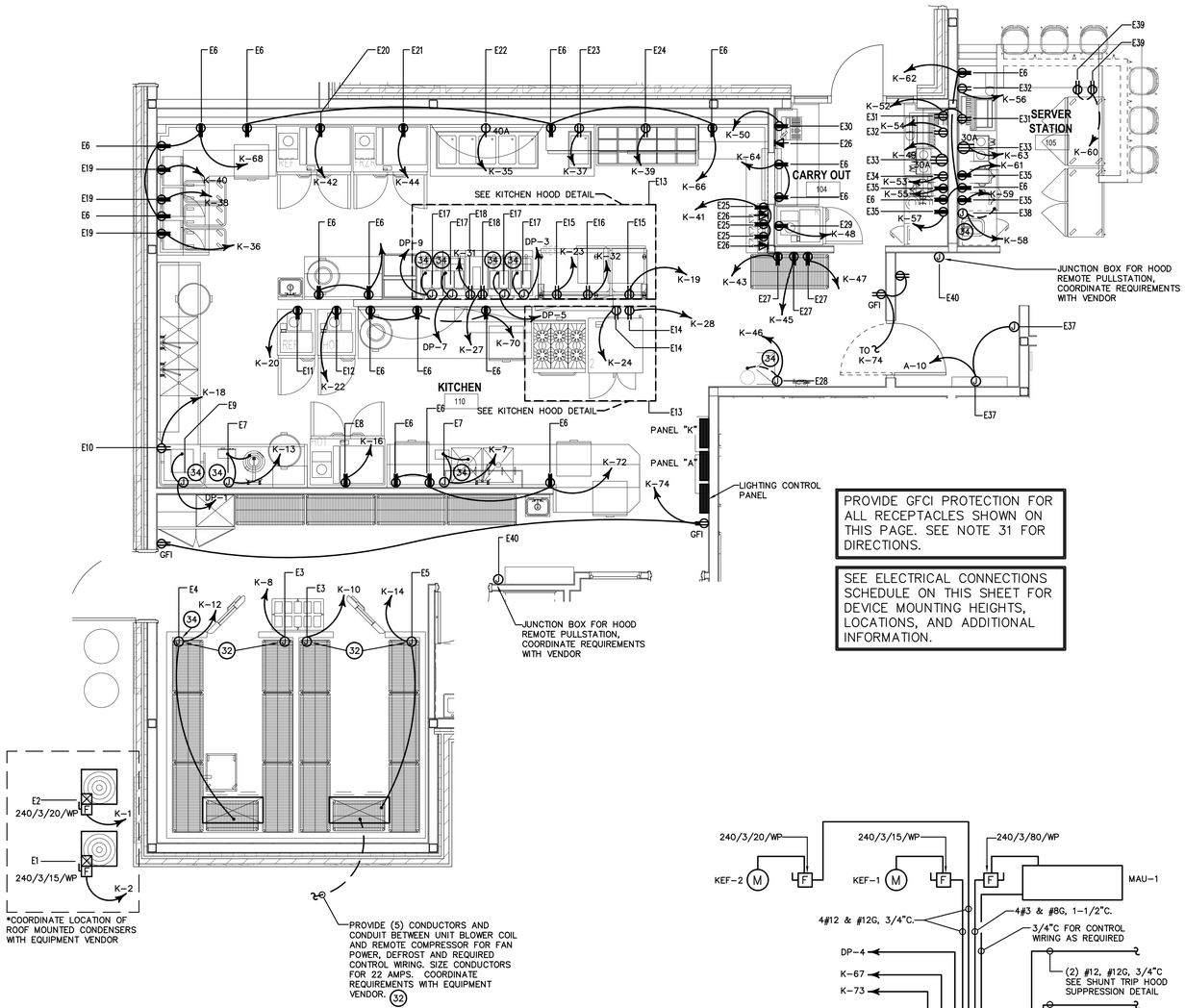
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12.22.23

DRAWING
ROOF POWER PLAN

E200



PROVIDE GFCI PROTECTION FOR ALL RECEPTACLES SHOWN ON THIS PAGE. SEE NOTE 31 FOR DIRECTIONS.

SEE ELECTRICAL CONNECTIONS SCHEDULE ON THIS SHEET FOR DEVICE MOUNTING HEIGHTS, LOCATIONS, AND ADDITIONAL INFORMATION.

ELECTRICAL CONNECTIONS SCHEDULE

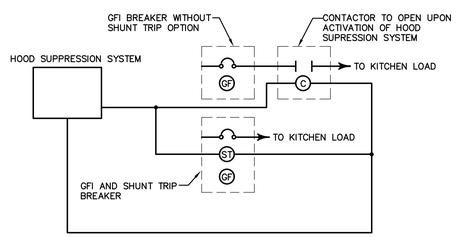
NUMBER	CONNECTION	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	LOCATION	A.F.F.	REMARKS
E1	JUNCTION BOX	FREEZER CONDENSER	1	2-1/2	–	VERIFY	208/230	3	ROOF	ROOF	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E2	JUNCTION BOX	COOLER CONDENSER	2	3/4	–	VERIFY	208/230	3	ROOF	ROOF	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E3	JUNCTION BOX	DOOR HEATER,LIGHTS, ALARM	4	–	–	15.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E4	JUNCTION BOX	BLOWER COIL	7	–	–	5.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E5	JUNCTION BOX	HEAT TAPE	8	–	–	5.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E6	DUPLEX	CONVENIENCE OUTLET	–	–	–	15.0	120	1	WALL	50"	–
E7	JUNCTION BOX	DISPOSER W/CONTROL	17/23	2.0	–	6.6	208	3	WALL	14"	E.C. TO WIRE THRU SWITCH & SOLENOID
E8	DUPLEX	2 DOOR HOT BOX	18	–	1.55	13.5	120	1	WALL	76"	–
E9	JUNCTION BOX	DISH MACHINE	24	–	–	49.3	208	3	WALL	14"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E10	DUPLEX	DISH MACHINE	24	–	–	10.0	120	1	WALL	16"	–
E11	DUPLEX	REFRIGERATOR	27	1/4	–	2.5	120	1	WALL	76"	–
E12	DUPLEX	HOT BOX	28	–	0.95	8.5	120	1	WALL	76"	–
E13	JUNCTION BOX	EXHAUST HOOD	34/37	–	–	15.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E14	DUPLEX	DOUBLE CONVECTION OVEN	36	–	–	8.5	120	1	WALL	24"	–
E15	DUPLEX	CONVENIENCE OUTLET	–	–	–	10.0	120	1	WALL	18"	–
E16	DUPLEX	REFRIGERATED EQUIPMENT STAND	42	1.7	–	2.3	120	1	WALL	18"	–
E17	JUNCTION BOX	FRYER	43	–	17.0	52.0	208	3	WALL	18"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E18	DUPLEX	HEAT LAMP/CONTROLS	43	–	–	15.0	120	1	WALL	18"	–
E19	DUPLEX	MICROWAVE OVEN	48	–	1.0	14.0	120	1	WALL	50"	–
E20	DUPLEX	REFRIGERATOR	54	1/3	–	2.8	120	1	WALL	76"	–
E21	DUPLEX	FREEZER	55	2/3	–	6.3	120	1	WALL	76"	–
E22	DUPLEX	5-WELL HOT FOOD UNIT	57	–	3.0	25.0	120	1	WALL	18"	–
E23	DUPLEX	1-WELL HOT FOOD UNIT	63	–	0.6	5.0	120	1	WALL	18"	–
E24	DUPLEX	SALAD BAR-EXISTING	64	1/2	–	6.1	120	1	WALL	18"	–
E25	DUPLEX	PRINTER-BY OWNER	68	–	–	10.0	120	1	WALL	50"	–
E26	–	DATA CONNECTION PORTS	–	–	–	–	–	–	WALL	50"	–
E27	DUPLEX	HEATED SHELVES (5)	72	–	–	15.0	120	1	WALL	40"	–
E28	JUNCTION BOX	CUBE ICE MAKER	74	–	–	16.0	120	1	WALL	70"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E29	DUPLEX	REFRIGERATOR	76	1/4	–	2.5	120	1	WALL	76"	–
E30	DUPLEX	POS SYSTEM	81	–	–	15.0	120	1	WALL	50"	E.C. TO COORDINATE WITH OWNER PROVIDED EQUIPMENT
E31	DUPLEX	ICE/SODA DISPENSER	82	–	–	1.0	120	1	WALL	18"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E32	DUPLEX	AMBIENT CARBONATOR	83	–	–	10.0	120	1	WALL	18"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E33	SINGLE	COFFEE BREWER	84	–	–	30.0	120/208	1	WALL	50"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E34	DUPLEX	BAG-IN-BOX RACK	85	–	–	10.0	120	1	WALL	18"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E35	DUPLEX	ICED TEA BREWER	86	–	–	15.0	120	1	WALL	50"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E36	–	SPARE NUMBER	–	–	–	–	–	–	–	–	–
E37	JUNCTION BOX	FIRE SUPPRESSION SYSTEM	91/92	–	–	15.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E38	JUNCTION BOX	ROLL WARMER	94	–	1.35	11.3	120	1	WALL	18"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E39	DUPLEX	UNDERCOUNTER REFRIGERATOR	95	–	–	2.46	120	1	FLOOR	STUB	–
E40	EMPTY OCTAGON BOX FOR REMOTE PULL STATIONS LOCATED AT POINTS OF EGRESS IN BUILDING								WALL	48"	PER LOCAL CODES, RULES & REGULATIONS

EQUIPMENT ELECTRICAL REQUIREMENTS, LOCATIONS, AND CONNECTIONS MUST BE FIELD COORDINATED WITH FINAL SELECTED EQUIPMENT.

KITCHEN HOOD CONNECTION DIAGRAM

NO SCALE

ACTIVATION OF FIRE SUPPRESSION SYSTEM SHALL TURN OFF SUPPLY FAN AND HOOD LIGHTS AND SHALL OPEN SHUNT TRIP BREAKERS AND CLOSE GAS SOLENOID VALVE.



SHUNT-TRIP HOOD SUPPRESSION INTERLOCK DETAIL

ALL BREAKERS SERVICING APPLIANCES UNDER HOODS THAT ARE SOURCES OF HEATING OR IGNITION OF FIRES SHALL BE DEENERGIZED UPON ACTIVATION OF THE HOOD SUPPRESSION SYSTEM.

1 LARGE SCALE POWER PLAN
1/4" = 1'-0"

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PROJECT NUMBER: 23079

DRAWN BY: JW

DATE: 12.22.23

DRAWING LARGE SCALE POWER PLAN

E300

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Project: 23228 Drawing: 23228-E300.dwg

ELECTRICAL LEGEND

MOUNTING HEIGHTS MEASURED TO ℄

COORDINATE WITH ARCHITECT/OWNER'S REP FOR CONFIRMATION OF DEVICE MOUNTING HEIGHT (NO HIGHER THAN 54" PER ADA) PRIOR TO ROUGH-IN. TYPICAL FOR ALL LIGHT SWITCHES (INCLUDING DIMMERS & OCCUPANCY/VACANCY SENSORS), BUTTON/CONTROL STATIONS AND FIRE ALARM PULL STATIONS WHERE APPLICABLE.

- CONDUIT RUN CONCEALED IN WALL, CEILING, OR FLOOR
- CONDUIT RUN, CONCEALED IN FLOOR OR UNDERGROUND
- CONDUIT RUN, INSTALLED EXPOSED
- HOMERUN TO PANEL INDICATED
- RECEPTACLE, DUPLEX, 120V, 15A. UNO, @ 18" AFF TO BOTTOM
- RECEPTACLE, DUPLEX, 120V, 15A. UNO, SMH
- RECEPTACLE, QUADRAPLEX, 120V, 15A. UNO, @ 18" AFF TO BOTTOM
- RECEPTACLE, QUADRAPLEX, 120V, 15A. UNO, SMH
- RECEPTACLE, SINGLE, 250V, AMPS AS NOTED, @ 18" AFF TO BOTTOM
- RECEPTACLE, SINGLE, 120V, AMPS AS NOTED, @ 18" AFF TO BOTTOM
- RECEPTACLE, DUPLEX, 120V, 15A. UNO, CEILING MOUNTED
- (J) JUNCTION BOX, SIZE AS REQUIRED
- S SWITCH, SINGLE POLE, 120/277V, 20A, 48" AFF TO TOP OF DEVICE.
- S_3 SWITCH, THREE WAY, 120/277V, 20A, 48" AFF TO TOP OF DEVICE
- S_4 SWITCH, FOUR WAY, 120/277V, 20A, 48" AFF TO TOP OF DEVICE
- S_D DIMMING SWITCH, 120/277V, WALL MOUNTED DECORA STYLE, 48" AFF TO TOP OF DEVICE. CONFIRM DIMMING SWITCH IS COMPATIBLE WITH TYPE DIMMING OF ASSOCIATED LIGHT FIXTURE(S). (0-10V, ELV, MLV, ETC.)
- S_O OCCUPANCY SENSOR SWITCH, PASSIVE INFRARED, 120V, WALL MOUNTED 48" AFF TO TOP OF DEVICE, WATTSTOPPER WA-200
- $S_{DL\#}$ DATALINE DIMMING SWITCH, LOW VOLTAGE, WALL MOUNTED 48" AFF TO TOP OF DEVICE, # DENOTES ZONE CONTROLLED
- (DT) MOTION SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY, LOW VOLTAGE, PROVIDE POWER PACK & ADDITIONAL RELAYS AS REQUIRED
- [DT] MOTION SENSOR, WALL CONER MOUNTED, DUAL TECHNOLOGY, LOW VOLTAGE, PROVIDE POWER PACK & ADDITIONAL RELAYS AS REQUIRED
- [RP] $_{Z\#}$ LIGHTING CONTROL RELAY PACK, LOW VOLTAGE, PROVIDE RELAY PACK COMPATIBLE TO LIGHT FIXTURE DIMMING CAPABILITIES, # DENOTES ZONE CONFIGURATION
- PHONE/DATA OUTLET, 4x4 BOX W/1"C TO ABOVE CL'G – @ 18" AFF TO BOTTOM
- PHONE/DATA OUTLET, 4x4 BOX W/1"C TO ABOVE CL'G – SMH
- LIGHTING FIXTURES SEE FIXTURE SCHEDULE
- DISCONNECT SWITCH, NON-FUSED, DESCRIBED BY: VOLTAGE RATING/NO. OF POLES/SWITCH SIZE IN AMPS
- [F] DISCONNECT SWITCH, FUSED, DESCRIBED BY: VOLTAGE RATING/NO. OF POLES/FUSE SIZE IN AMPS
- S_M SWITCH, MOTOR STARTING, MANUAL, SIZE AS REQUIRED
- ⊠ MOTOR STARTER, MAGNETIC, SIZE AS REQUIRED
- (M) MOTOR, SEE PANEL SCHEDULE FOR SIZE AND SERVICE
- [D] DUCT MOUNTED SMOKE DETECTOR
- [H] FIRE ALARM HORN/LIGHT COMBINATION
- [L] FIRE ALARM LIGHT ONLY

  (H) & (L): INSTALL WITH BOTTOM OF DEVICE AT A MAXIMUM HEIGHT OF 96" AFF TO BOTTOM AND A MINIMUM HEIGHT OF EITHER 80" AFF TO BOTTOM OR 6" BELOW FINISHED CEILING.
- [F] FIRE ALARM MANUAL PULL STATION – 48" AFF TO TOP OF DEVICE.
- [FS] [TS] SPRINKLER SYSTEM FLOW AND TAMPER SWITCHES
- (D) FIRE ALARM CEILING MTD SMOKE DETECTOR
- (#) REFER TO GENERAL ELECTRICAL NOTE INDICATED
- [T] TRANSFORMER, SIZE AS NOTED
- [SPD] SURGE PROTECTIVE DEVICE
- [TV]$_W$ HUBBELL NSAV62M FLAT PANEL ENCLOSURE WITH 120 VOLT RECEPTACLE AND VENDOR RECOMMENDED LOW VOLTAGE CONNECTOR. COORDINATE WITH OWNER/ARCHITECT FOR MOUNTING HEIGHTS & LOCATIONS FOR APPROPRIATE CONCEALMENT.
- [TV]$_C$ CEILING MOUNTED DATA/CATV OUTLET FOR PROJECTOR ⚠1

ABBREVIATIONS:

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
℄	CENTERLINE
CLG	CEILING
EF	EXHAUST FAN
FACP	FIRE ALARM CONTROL PANEL
GFI	GROUND FAULT INTERRUPTER
KEF	KITCHEN EXHAUST FAN
MAU	MAKEUP AIR UNIT
MTD	MOUNTED
TTB	TELEPHONE TERMINAL BOARD
RTU	ROOF TOP UNIT
SMH	SPECIAL MOUNTING HEIGHT (4" ℄ ABOVE CASEWORK/BACKSPLASH OR 45" ℄ AFF IF NO CASEWORK/BACKSPLASH)
UNO	UNLESS NOTED OTHERWISE
XFMR	TRANSFORMER
WH	WATER HEATER
WP	WEATHERPROOF – WHILE IN USE
WR	WEATHERPROOF – WHILE NOT IN USE

GENERAL ELECTRICAL NOTES:

1. VISIT PROJECT SITE BEFORE SUBMISSION OF BID AND BECOME FAMILIAR WITH EXISTING CONDITIONS, LOCATIONS OF UTILITIES, AND EXTENT OF WORK REQUIRED.

2. COORDINATE INSTALLATION OF NEW SERVICE WITH LOCAL ELECTRIC UTILITY COMPANY. PROVIDE TRENCHING, CONDUIT, METER BASE, CONCRETE PAD, AND OTHER ITEMS AS REQUIRED. INSTALL SERVICE IN ACCORDANCE WITH CURRENT UTILITY COMPANY REQUIREMENTS.

3. COORDINATE INSTALLATION OF TELEPHONE & CATV SERVICE CONDUITS WITH LOCAL UTILITY COMPANIES. INSTALL A 4" CONDUIT FROM TELEPHONE SERVICE POINT & A 2" CONDUIT FROM CATV SERVICE POINT TO TELEPHONE TERMINAL BOARD.

4. PROVIDE A 4' X 8' X 3/4" PLYWOOD TELEPHONE TERMINAL BOARD WITH A #6 COPPER GROUND WIRE TO THE SERVICE ENTRANCE GROUND.

5. PROVIDE A 3/4" THICK PLYWOOD TELEPHONE TERMINAL BOARD WITHIN THE TELEPHONE AND CATV CABINETS AND PROVIDE EACH BOARD WITH A #6 COPPER GROUND WIRE TO THE SERVICE ENTRANCE GROUND. WIDTH AND HEIGHT OF BOARDS TO BE PER UTILITY COMPANY'S RECOMMENDATIONS.

6. INSTALL 1" CONDUIT FROM EACH TELEPHONE, DATA, COMBINATION TELEPHONE-DATA, AND CATV OUTLET TO ABOVE NEAREST ACCESSIBLE CEILING WITH AN INSULATED BUSHING ON EACH END. WHERE ASSOCIATED AREAS ARE EXPOSED OR HAVE BEEN PROVIDED WITH HARD CEILINGS PROVIDE 1" CONDUIT FROM OUTLET TO TERMINAL BOARD AND COORINATE WITH ARCHITECT FOR ANY REQUIRED ACCESS DOORS. PROVIDE PULL STRINGS THROUGHOUT.

7. VERIFY ELECTRICAL POWER REQUIREMENTS FOR ALL EQUIPMENT. PROVIDE CIRCUITS AND FUSES SIZED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

8. PROVIDE DISCONNECT SWITCH FOR ANY HARDWIRED EQUIPMENT NOT SUPPLIED WITH DISCONNECTING MEANS. DISCONNECT SHALL BE RATED FOR LOCATION INSTALLED.

9. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND CONTROL REQUIREMENTS FOR MECHANICAL EQUIPMENT AND FOR STARTERS, DISCONNECT SWITCHES AND CONVENIENCE RECEPTACLES THAT MAY BE FURNISHED WITH THE EQUIPMENT.

10. PROVIDE CONTROL POWER SOURCE FOR ALL STARTERS AND CONTROL PANELS NOT SUPPLIED WITH CONTROL POWER TRANSFORMERS. INSTALL AND CONNECT ALL CONTROL DEVICES IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.

11. MAINTAIN CODE REQUIRED WORKING CLEARANCE AT ALL ELECTRICAL PANELS, DISCONNECT SWITCHES, AND STARTERS.

12. RECEPTACLES LOCATED IN THOSE AREAS DESIGNATED PER NEC 406.12. SHALL BE LISTED AS TAMPER RESISTANT.

13. ALL RECEPTACLES ON DEDICATED CIRCUITS SHALL BE RATED NO LESS THAN CIRCUIT OVERCURRENT DEVICE.

14. WHERE RECEPTACLES ARE INDICATED IN WALLS THAT SUPPORT CASEWORK, COORDINATE WITH ARCHITECT AND ARCHITECT'S ELEVATION PLANS FOR APPROPRIATE MOUNTING HEIGHTS PRIOR TO ROUGH-IN.

15. ALL GROUND-FAULT CIRCUIT-INTERRUPTER RECEPTACLES SHALL BE READILY ACCESSIBLE PER CODE. CONFIRM ACCESSIBILITY PRIOR TO ROUGH-IN. IF NECESSARY SERVE A STANDARD RECEPTACLE WITH AN INTEGRAL GROUND FAULT 20 AMP 1 POLE CIRCUIT BREAKER OR PROVIDE A STAND ALONE GFI DEVICE IN A READILY ACCESSIBLE ADJACENT LOCATION.

16. CONFIRM CIRCUITRY REQUIREMENTS OF OWNER FURNISHED EQUIPMENT INCLUDING MOUNTING HEIGHT(S) OF ELECTRICAL CONNECTION(S), RECEPTACLE NEMA CONFIGURATION OR OVERCURRENT PROTECTION SIZE & WIRE SIZE WITH FINAL VENDOR DRAWINGS PRIOR TO ROUGH-IN.

17. COORDINATE LOCATIONS OF ALL CEILING MOUNTED LIGHT FIXTURES WITH ARCHITECT'S REFLECTED CEILING PLANS AND ELEVATION DRAWINGS. PROVIDE FIXTURES COMPATIBLE WITH CEILING TYPE INSTALLED.

18. LIGHTING FIXTURES FOR EMERGENCY USE SHALL BE PROVIDED WITH INTEGRAL BATTERY. THOSE FIXTURES SHALL BE CIRCUITED SUCH THAT THEY AUTOMATICALLY SWITCH TO FULL BATTERY OPERATION UPON FAILURE OF UTILITY POWER TO CIRCUIT,INCLUDING THOSE "EMERGENCY FIXTURES" ATTACHED TO DIMMED LIGHTING CIRCUITS. EXIT LIGHTS SHALL BE UNSWITCHED.

19. COORDINATE LOCATION OF LIGHTS IN EQUIPMENT AND MECHANICAL ROOMS WITH INSTALLED EQUIPMENT SO THAT ALL GAUGES, SWITCHES, AND SERVICE LOCATIONS ARE ILLUMINATED.

20. EXTERIOR LIGHTING SHALL BE TURNED ON AT DUSK BY A PHOTOCELL, AND TURNED OFF AT A PRESET TIME BY A TIMESWITCH. PHOTOCELL SHALL BE MOUNTED ON BUILDING NEAR ROOF. TIMESWITCH SHALL BE INTEGRAL TO LIGHTING CONTROL PANEL.

21. EACH AIR HANDLING UNIT RATED AT 2000 CFM OR MORE SHALL HAVE A SMOKE DETECTOR MOUNTED IN THE RETURN AIR DUCT. AIR HANDLING UNITS SERVING EGRESS PATHS SHALL HAVE DUCT MOUNTED SMOKE DETECTORS IN THE SUPPLY AND RETURN DUCTS. PROVIDE AN AUDIBLE AND VISUAL ALARM INDICATOR WITHIN THE OCCUPIED SPACE TO INDICATE DUCT MOUNTED SMOKE DETECTOR ACTIVATION.

22. PROVIDE UL LISTED TECHNIQUES FOR PENETRATIONS OF RATED WALL AND CEILING WITH CONDUIT OR OPEN WIRING. SEE ARCHITECTURAL DRAWINGS FOR WALL AND CEILING RATINGS.

23. INSTALL FIRE RATED ELECTRICAL BOXES LOCATED ON OPPOSITE SIDES OF RATED WALLS SUCH THAT THEY ARE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES MINIMUM.

24. ELECTRICAL BOXES WITHIN RATED WALLS AND CEILINGS MUST BE INSTALLED TO MAINTAIN THE RATING OF THE WALL OR CEILING. BOXES ON OPPOSITE SIDES OF RATED WALLS MAY BE A UL LISTED FIRE RATED BOX INSTALLED PER UL LISTING OR METAL BOXES BE SEPERATED BY 24 INCHES. IF BOXES ON OPPOSITE SIDES OF RATED WALLS ARE INSTALLED LESS THAN 24 INCHES APART THEY MUST BE WRAPPED WITH MANUFACTURER INSTALLED OR FIELD INSTALLED INTUMESCENT PUTTY PAD.

25. WHERE LIGHT SWITCHES OR DIMMER SWITCH(ES) ARE INDICATED IN A SPACE (ROOM OR CORRIDORS)THAT ALSO CONTAINS CEILING MOUNTED OCCUPANCY SENSOR(S), THE SWITCH(ES) AND OCCUPANCY SENSOR(S) ASSOCIATED WITH THE SPACE MUST WORK TOGETHER SUCH THAT THE OCCUPANCY SENSOR(S) AUTOMATICALLY TURN OFF THE LIGHTING 15 MINUTES AFTER THE LAST OCCUPANT HAS LEFT THE SPACE. WHERE LIGHT FIXTURES WITHIN THE SPACE ARE SERVED FROM DIFFERENT CIRCUITS, PROVIDE RELAYS AS REQUIRED FOR APPROPRIATE OCCUPANCY SENSOR CONTROL INTERFACE TO MEET INTENT.

26. WHERE DIMMING SWITCHES ARE INDICATED, COORDINATE/CONFIRM THAT SWITCHES ARE COMPATIBLE WITH THE TYPE OF DIMMING DRIVER BEING UTILIZED (I.E. 0-10V, ELV, MLV, ETC.)

27. OCCUPANCY OVERRIDE SWITCH. SWITCH SHALL BE WIRED IN PARALLEL WITH OCCUPANCY SENSOR RELAY SUCH THAT LIGHTS REMAIN ON WHEN OCCUPANCY SENSOR TURNS OFF. PROVIDE LABEL ON SWITCH THAT READS "OCCUPANCY SENSOR BYPASS FOR ELECTRICAL MAINTENANCE."

28. PROVIDE SURGE PROTECTIVE DEVICES (SPD) AT PANELBOARDS AS INDICATED. SPD EQUIPMENT TO BE RATED FOR 100,000 AMPS PER PHASE SURGE AT PANELBOARDS. CLAMPING VOLTAGE TO BE 600 VOLTS ON 120/208 VOLTS. SURGE MODULES SHALL BE REPLACEABLE. (APPROVED MANUFACTURER IS ERICO MODEL TDX100S120208 OR EQUAL.) IN THE EVENT MODULE IS MOUNTED SEPARATELY/ADJACENT TO PANEL, PROVIDE NEMA 3R ENCLOSURE FOR MODULE.

29. PROVIDE SHUNT TRIP CIRCUIT BREAKERS FOR ALL HEATING EQUIPMENT LOCATED UNDER KITCHEN HOOD. CONNECT HOOD FIRE SUPPRESSION SYSTEM TO TURN OFF HOOD SUPPLY FAN, OPEN BREAKERS SERVING EQUIPMENT UNDER HOOD, CLOSE GAS PIPING SOLENOID VALVE AND SEND SIGNAL TO FIRE ALARM CONTROL PANEL UPON ACTIVATION. SEE SHUNT-TRIP HOOD SUPPRESSION INTERLOCK DETAIL FOR GFI AND SHUNT-TRIP CONTROL.

30. VERIFY ELECTRICAL REQUIREMENTS AND LOCATIONS OF ALL KITCHEN EQUIPMENT PRIOR TO ROUGH-IN. COORDINATE RECEPTACLES REQUIRED WITH EQUIPMENT FURNISHED. PROVIDE 3/4" CONDUIT FOR CONTROL WIRING BETWEEN EVAPORATOR COILS AND RESPECTIVE CONDENSING UNITS.

31. ALL SINGLE-PHASE CIRCUITS RATED 150 VOLTS TO GROUND OR LESS, 50 AMPS OR LESS AND THREE PHASE CIRCUITS RATED 150 VOLTS TO GROUND OR LESS, 100 AMPS OR LESS INSTALLED IN KITCHEN, SERVICE & PREP AREAS SHALL HAVE GFCI PROTECTION FOR PERSONNEL AS REQUIRED BY NEC 210.8(B). PROTECTION MAY BE BY LOCAL GFCI RECEPTACLES, STAND ALONE GFCI DEVICES, OR GFCI TYPE CIRCUIT BREAKERS IN THE PANEL. RECEPTACLES INDICATED TO BE INSTALLED UNDERNEATH A KITCHEN HOOD SHALL BE PROVIDED WITH REMOTE STAND ALONE GFCI DEVICES OUTSIDE THE HOOD FOOT PRINT. COORDINATE WITH END USER FOR PREFERRED LOCATIONS OF STAND ALONE DEVICES PRIOR TO ROUGH-IN.

32. PROVIDE JUNCTION BOXES FOR THE PURPOSE OF SEALING CONDUITS PENETRATING INTO REFRIGIRATED AREAS OR PENETRATING THE EXTERIOR WALL OF THE BUILDING. JUNCTION BOX SHALL BE LOCATED AT THE POINT OF PENETRATION. THE CONDUIT SHALL BE FILLED BY AN APPROVED MATERIAL TO PREVENT THE CIRCULATION OF WARM AIR TO A COLDER SECTION OF CONDUIT.

33. PROVIDE A 1-1/2" CONDUIT WITH PULLSTRING FROM BDA PANEL LOCATION TO ROOF FOR FUTURE COAXIAL CABLE TO ROOF ANTENNA IF BDA SYSTEM IS DETERMINED TO BE REQUIRED.

34. PROVIDE FLEXIBLE CORD OR FLEX HARD WIRED CONNECTION TO APPLIANCE. ASSOCIATED "REMOTE" CIRCUIT BREAKER SHALL HAVE A "LOCK-OPEN" MEANS IN ACCORDANCE WITH NEC 422.31(B)/110.25. CONFIRM THIS IS ACCEPTABLE WITH LOCAL AUTHORITIES FOR A DISCONNECTING MEANS PRIOR TO ROUGH-IN. IF THIS IS NOT ACCEPTABLE PROVIDE DISCONNECT FOR APPLIANCE SIZED FOR APPLIANCE VOLTAGE AND AMPERAGE.

35. CONTRACTOR SHALL PROVIDE COMMISSIONING BY MANUFACTURER FOR ALL LIGHTING CONTROL SYSTEMS. COMMISSIONING AGENT SHALL PROVIDE WRITTEN REPORT INDICATING THAT THE LIGHTING SYSTEM HAS BEEN TESTED TO ENSURE LIGHTING CONTROL IS FUNCTIONING ACCORDING TO CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS PRIOR TO FINAL INSPECTION. FUNCTIONAL TESTING SHALL BE DONE IN ACCORDANCE WITH 2018 IECC SECTIONS C408.3.1.1 TO C408.3.1.2. WRITTEN REPORT SHALL BE PROVIDED TO THE OWNER, THE ELECTRICAL ENGINEER, AND THE AUTHORITY OF JURISDICTION.

36. RESTROOM OCCUPANCY SENSORS SHALL CONTROL LIGHTING AND EXHAUST FAN TOGETHER. IF SINGLE EXHAUST FAN SERVES MULTIPLE RESTROOMS PROVIDE AN ADDITIONAL RELAY FOR EACH RESTROOM TO CONTROL EXHAUST FAN. CONNECT ADDITIONAL RELAYS IN PARALLEL SUCH THAT FAN RUNS WHEN ANY RESTROOM IS OCCUPIED.

37. INTERIOR OF PROPOSED BUILDING SHALL HAVE APPROVED RADIO COVERAGE FOR EMERGENCY RESPONDERS BASED UPON THE COVERAGE LEVELS OF THE PUBLIC SAFTEY COMMUNICATION SYSTEMS OF THE JURISDICTION AT THE EXTERIOR OF THE BUILDING. EMERGENCY RESPONDER RADIO COVERAGE MUST BE VERIFIED IN THE FIELD. THE RF TEST SHALL BE PERFORMED BY THE LOCAL FIRE DEPARTMENT OR AN APPROVED FCC GROL CERTIFIED TECHNICIAN AFTER INTERIOR AND EXTERIOR WALLS AND THE ROOF ARE CONSTRUCTED. IF THE BUILDING DOES NOT MEET THE REQUIRED SIGNAL STRENGTH, PROVIDE AND INSTALL AN EMERGENCY RADIO COMMUNICATION ENHANCEMENT SYSTEM, HONEYWELL BI-DIRECTIONAL AMPLIFIER OR EQUIVALENT. SEE NOTE 33.

38. OCCUPANCY SENSORS IN DINING AREAS AND VESTIBULE SHALL BE USED AS AN OVER-RIDE DEVICE ONLY. THE LIGHTS IN THESE AREA SHALL TURN ON WITH MOTION, STAY ON PER NORMAL SCHEDULED BUSINESS HOURS, AND RETURN TO OCCUPANCY SENSING (AUTO ON/OFF) OPERATION OUTSIDE OF NORMAL SCHEDULED BUSINESS HOURS. PROGRAM THE LIGHTING CONTROLLER TO SCHEDULE BUSINESS HOURS AND TO ALLOW THIS OVER-RIDE OPERATION.

39. PROVIDE LIGHTING CONTROLLER WITH TIMECLOCK/SCHEDULER FOR THE RELAY PACKS IN SYSTEM.

40. PROVIDE LIGHTING CONTROLLER REMOTE FOR PROGRAMMING IF SELECTED SYSTEM ALLOWS REMOTE OPERATION.

41. CONNECT DINING AREA EMERGENCY LIGHTING FIXTURE TO LIGHTING CIRCUIT AHEAD OF NEAREST RELAY PACK. SEE NOTE 18 FOR ADDITIONAL INFORMATION.

42. PROVIDE LOCK-ON/OFF DEVICE AT CIRCUIT BREAKER. PROVIDE WARNING SIGN OR LABEL PER NEC INDICATING THE FOLLOWING "WARNING. ELECTRIC SHOCK HAZARD. DO NOT TOUCH TERMINALS. TERMINALS ON BOTH THE LINE AND LOAD SIDES MAY BE ENERGIZED IN THE OPEN POSITION."

43. PROVIDE CELING DUPLEX RECETPACLE AND DATA/CATV OUTLET FOR PROJECTOR. PROVIDE 1" CONDUIT FROM DATA/CATV OUTLET TO LOCATION AS DIRECTED BY OWNER'S REPRESENTATIVE. COORDINATE LOCATIONS WITH ARCHITECT.

44. PROVIDE POWER FOR MOTORIZED PROJECTOR SCREEN AND JUNCTION BOX FOR SCREEN CONTROLLER. PROVIDE 3/4"C FROM MOTORIZED SCREEN TO CONTROLLER JUNCTION BOX LOCATION. COORDINATE LOCATIONS WITH ARCHITECT. COORDINATE REQUIREMENTS WITH SELECTED SCREEN VENDOR. ⚠1

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	VOLTS	MANUFACTURER
A1	LED, DOWNLIGHT, 1200 LUMENS, 24 WATTS, 3000K, ELV DIMMING, WIDE DISTRIBUTION, WHITE BAFFLE, WHITE FLANGE	120	MAXILUME H6-LED SERIES
B1	LED PANEL, GRID TROFFER, 2 X 2, 4000 LUMEN, 4000K TEMP, 42 WATTS, SATIN WHITE DIFFUSER, 0-10V DIMMING	120	ORACLE 22-FPL1-LED SERIES
C1	LED, PENDANT, 20 WATTS, 1718 LUMENS, 3000K, ELV DIMMING, BLACK FINISH	120	WAC LIGHTING PD-68909 9" SERIES
D1	LED, PENDANT, 30 WATTS, 2527 LUMENS, 3000K, ELV DIMMING, BLACK FINISH	120	MODERN FORMS PD-24614 14" SERIES
EC	COMBINATION EXIT SIGN/(2) HEAD EMERGENCY LIGHT, LED, UNIVERSAL MOUNT, SINGLE/DOUBLE FACE AS SHOWN, RED LETTERS, WHITE THERMOPLASTIC HOUSING, ARROWS AS INDICATED, BATTERY BACK-UP	120	LITHONIA LHQM SERIES SURELITE APCH7 SERIES DUAL LITE EVC SERIES
ECR	COMBINATION EXIT SIGN/(2) HEAD EMERGENCY LIGHT, LED, UNIVERSAL MOUNT, SINGLE/DOUBLE FACE AS SHOWN, RED LETTERS, WHITE THERMOPLASTIC HOUSING, ARROWS AS INDICATED, BATTERY BACK-UP WITH REMOTE CAPACITY	120	LITHONIA LHQM SERIES SURELITE APCH7 SERIES DUAL LITE EVC SERIES
EX	EXIT SIGN, LED, UNIVERSAL MOUNT, SINGLE/DOUBLE FACE AS SHOWN, RED LETTERS, WHITE THERMOPLASTIC HOUSING, ARROWS AS INDICATED, BATTERY BACK-UP	120	LITHONIA LQM SERIES SURE-LITE APX7 SERIES DUAL LITE EV SERIES
EM	EMERGENCY LIGHT, WALL MOUNTED, (2) 9 WATT LAMP HEADS, BATTERY BACK-UP	120	LITHONIA QUANTUM SERIES SURE-LITES SEL25 SERIES DUAL LITE EV2 SERIES
ER	EXTERIOR (2) HEAD REMOTE EMERGENCY LED LIGHT UNIT SERVED FROM ASSOCIATED EXIT SIGN WITH REMOTE CAPACITY		LITHONIA ELA QWP SERIES SURELITE APWR2 SERIES DUAL LITE EVC EVO SERIES
E1	LED, PENDANT, 44 WATTS, 2496 LUMENS, 3000K, ELV DIMMING, BLACK FINISH	120	WAC LIGHTING PD-73155 55" SERIES
F1	LED, WALL SCONCE, VANITY, 1342 LUMENS, 16 WATTS, 3500K, ELV DIMMING, BRUSHED ALUMINUM	120	MODERN FORMS WS-W81619 19" SERIES
G1	LED, PENDANT, 42 WATTS, 2645 LUMENS, 3000K, ELV DIMMING, BLACK FINISH	120	WAC LIGHTING PD-73134 34" SERIES
H1	LED, TRACK LIGHT, 17 WATT PENDANT, ELV DIMMING, COORDINATE NUMBER OF HEADS WITH ARCHITECT, BLACK FINISH, 300 WATT CURRENT LIMITING DEVICE, TRACK LENGTH AS SHOWN ON PLANS, 3000K	120	WAC LIGHTING PENDANT PD2015 SERIES TRACK J SERIES
I1	LED, TRACK LIGHT, 20 WATT HEAD, ELV DIMMING, COORDINATE NUMBER OF HEADS WITH ARCHITECT, BLACK FINISH, 300 WATT CURRENT LIMITING DEVICE, TRACK LENGTH AS SHOWN ON PLANS, 3000K	120	WAC LIGHTING PENDANT 2020 SERIES TRACK J SERIES
J1	LED, DOWNLIGHT, 680 LUMENS, 9 WATTS, 3000K, ADJUSTABLE, ELV DIMMING, BRUSHED NICKEL FINISH	120	WAC LIGHTING R2BRA SERIES
K1	LED, WALL MOUNT, 35 WATTS, 4000K, BLACK FINISH, COORDINATE BEAM ANGLE AND TYPE WITH ARCHITECT	120	WAC LIGHTING DS-WS06 SERIES
L1	LED, SURFACE MOUNT, LENSED, 4' STRIP, 41 WATTS, 3500K, DIMMING, WHITE FINISH	120	COLUMBIA LIGHTING CSL4 SERIES
M1	LED, TAPE LIGHT, 3000K, 3.0 WATTS PER FOOT MAX, VERIFY LENGTH WITH ARCHITECT, PROVIDE CONNECTORS, POWER SUPPLY, AND CABLES, 45 DEGREE ANGLED ALUMINUM CHANNEL, ELV DIMMING	24	WAC LIGHTING T24 SERIES
N1	LED, TRACK LIGHT, 20 WATT WALL WASH, ELV DIMMING, COORDINATE NUMBER OF HEADS WITH ARCHITECT, BLACK FINISH, TRACK LENGTH AS SHOWN ON PLANS, 3000K	120	WAC LIGHTING LUMINAIRE 3020W SERIES TRACK J SERIES
O1	LED, SURFACE MOUNTED, 1200 LUMENS, WET LOCATION RATED, 25 WATTS MAX,	120	COORDIATE FIXTURE SELECTION WITH ARCHIECT

- ALL PENDANT FIXTURES CABLE OR STEM LENGTHS AND FINISHES ARE TO BE COORDINATED WITH ARCHITECTURAL ELEVATIONS/ARCHITECT PRIOR TO INSTALLATION.
- ALL FIXTURES TO BE SUPPLIED WITH LAMPS.
- FIXTURES SHALL BE COMPATIBLE WITH CEILING TYPE. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING FIRE RATING.
- ALL FIXTURES INSTALLED IN AN INSULATED CEILING SHALL BE I.C. RATED.

SEE ARCHITECTURAL PLANS FOR LIGHT FIXTURE MOUNTING HEIGHTS

1 LEGEND, NOTES, AND LIGHT FIXTURE SCHEDULE
NO SCALE

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ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS
1 ADD #01 02/01/24

PROJECT NUMBER: 23079
DRAWN BY: JW
DATE: 12.22.23

DRAWING LEGEND, NOTES, AND LIGHT FIXTURE SCHEDULE

E400

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Project: 23228 Drawing: 23228-E400-E403 (Revision #01).dwg

VOLTAGE: 208/120V., 3PH., 4W. | MAIN BKR: 700A | BUS: 800 AMP --- | A.I.C.: 35 K | SURFACE MOUNTED

NOTES: S.E. RATED | NEMA 3R | * SEE RISER DIAGRAM | "B" – BREAKER SUITABLE FOR BACK FEED | "LO" LOCK–ON/OFF DEVICE PER NOTE 42 | ⚠1

DESCRIPTION	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	WIRE SIZE	BKR AMPS	CKT #	CKT #	BKR AMPS	WIRE SIZE	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	DESCRIPTION
DISH MACHINE	5.9			4	70LO	1	2	225	*	20.9			PANEL "K"
		5.9		4					*		20.9		
			5.9	4					*			20.9	
FRYER	6.3			4	70LO	3	4	80	3	7.0			MAU–1
		6.3		4					3		7.0		
			6.3	4					3			7.0	
SHUNT–TRIP	0			–			6	60	4	5.0			RTU–1
FRYER		6.3		4	70LO	5			4		5.0		
			6.3	4					4			5.0	
	6.3			4			8	60	4	5.0			RTU–2
SHUNT–TRIP		0		–					4		5.0		
FRYER			6.3	4	70LO	7			4			5.0	
	6.3			4			10	125	*	8.4			PANEL "A" ⚠1
		6.3		4					*		6.8		
SHUNT–TRIP			0	–					–			0	
FRYER	6.3			4	70LO	9	12	100	–	0			SPACE
		6.3		4					–		0		
			6.3	4					–			0	
SHUNT–TRIP	0			–			14	100	–	0			SPARE
SPACE		0		–	100	11			–		0		
			0	–					–			0	
SPD	0			10	30	13	16	40	8	0			P.V. ARRAY
	0			10				LO,B	8		0		INTERCONNECTED
		0		10					8			0	POWER SOURCE
	31.1									46.3			A: 77.4 KVA
		31.1			PANEL "DP"						44.7		B: 75.8 KVA
			31.1									48.0	C: 79.1 KVA
													TOTAL: 232.3 KVA

PANEL "DP" KITCHEN EQUIPMENT LOAD: 93.3 KVA
DIVERSIFIED AT 65% PER NEC 220.56: 60.7 KVA
NON KITCHEN EQUIPMENT LOAD: 139.0 KVA
DIVERSIFIED PANEL LOAD: 199.7 KVA

VOLTAGE: 208/120V., 3PH., 4W. | MAIN BKR: --- | BUS: 125 AMP MLO | A.I.C.: 10 K | SURFACE MOUNTED

NOTES: "*" – INDICATES TO REFER TO RISER DIAGRAM; "ST" – INDICATES CB TO BE SHUNT TRIP TYPE; "GF" – INDICATES GROUND FAULT INTERRUPT TYPE CIRCUIT BREAKER; "LO" – INDICATES CIRCUIT BREAKER TO BE PROVIDED WITH "LOCK–ON" DEVICE.

DESCRIPTION	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	WIRE SIZE	BKR AMPS	CKT #	CKT #	BKR AMPS	WIRE SIZE	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	DESCRIPTION
EF–1,2,3	0.7			12	15	1	2	20	12	0.2			TELEPHONE TERM. BRD.
WH–1/RP–1		0.4		12	15	3	4	20LO	12		0.2		SPRINKLER MON. PANEL
EUH–1			1.5	12	20	5	6	20	12			0.8	EXT. RECEPTACLES
EXTERIOR SIGN	1.6			12	20	7	8	20	12	1.2			EXT. RECEPTACLES
EXTERIOR SIGN		0.8		12	20	9	10	20GF	12		0.4		FIRE SUPPRESSION
EXTERIOR SIGN			0.8	12	20	11	12	20	12			1.6	OFFICE/RR RECEPT.
EXTERIOR LIGHTS	0.8			12	20	13	14	20	12	1.0			DINING RECEPTACLES
EXTERIOR LIGHTS		0.6		12	20	15	16	20	12		1.4		DINING RM. LIGHTS
KITCHEN LIGHTS			1.8	12	20	17	18	20	12			1.2	DINING RM. LIGHTS
LIGHTING CONT. PANEL	0.2			12	20	19	20	20	12	1.3			DINING RM. LIGHTS
HOT BOX		1.0		10	20	21	22	20	12		0.8		RESTROOM, OFFICE, ETC.
HOT BOX			1.0	10	20	23	24	20	12			0.8	PROJECTORS/SCREENS
HOT BOX	1.0			10	20	25	26	20	–	0			SPARE
SITE SIGN		1.2		10	20	27	28	20	–		0		SPARE
SITE LIGHTING			0.6	10	20	29	30	20	–			0	SPARE
SITE LIGHTING	0.4			10	20	31	32	20	–	0			SPARE
SPARE		0		–	20	33	34	20	–		0		SPARE
SPARE			0	–	20	35	36	20	–			0	SPARE
SPARE	0			–	20	37	38	20	–	0			SPARE
SPARE		0		–	20	39	40	20	–		0		SPARE
SPARE			0	–	20	41	42	20	–			0	SPARE
	4.7									3.7			A: 8.4 KVA
		4.0			PANEL "A"						2.8		B: 6.8 KVA
			5.7									4.4	C: 10.1 KVA
													TOTAL: 25.3 KVA

VOLTAGE: 208/120V., 3PH., 4W. | MAIN BKR: --- | BUS: 225 AMP MLO | A.I.C.: 10 K | SURFACE MOUNTED

NOTES: "*" – INDICATES TO REFER TO RISER DIAGRAM; "ST" – INDICATES CB TO BE SHUNT TRIP TYPE; "GF" – INDICATES GROUND FAULT INTERRUPT TYPE CIRCUIT BREAKER; "LO" – INDICATES CIRCUIT BREAKER TO BE PROVIDED WITH "LOCK–ON/OFF" DEVICE PER NOTE 34.

DESCRIPTION	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	WIRE SIZE	BKR AMPS	CKT #	CKT #	BKR AMPS	WIRE SIZE	KVA/PHASE A	KVA/PHASE B	KVA/PHASE C	DESCRIPTION
FREEZER COND. UNIT	1.3			12	20	1	2	15	12	0.5			COOLER COND. UNIT
		1.3		12		3	4		12		0.5		
			1.3	12		5	6		12			0.5	
DISPOSAL	0.8			12	15LO	7	8	20	12	1.8			COOLER HEAT/LIGHTS
		0.8		12		9	10	20	12		1.8		FREEZER HEAT/LIGHTS
			0.8	12		11	12	20LO	12			0.6	COOLER BLOWER
DISPOSAL	0.8			12	15LO	13	14	20	12	0.6			FREEZER HEAT TAPE
		0.8		12		15	16	20GF	12		1.6		2 DOOR HOT BOX
			0.8	12		17	18	20GF	12			1.2	DISH MACHINE
RECEPTACLE AT GRID.	1.2			12	20GF	19	20	20GF	12	0.3			REFRIGERATOR
SHUNT–TRIP (NOTE 29)		0		–		21	22	20GF	12		1.0		HOT BOX
RECEPTACLE AT GRID.			1.2	12	20GF	23	24	20GF	12			1.0	DOUBLE OVEN
SHUNT–TRIP (NOTE 29)	0			–		25	26		–	0			SHUNT–TRIP (NOTE 29)
HEAT LAMP		1.8		12	20GF	27	28	20GF	12		1.0		DOUBLE OVEN
SHUNT–TRIP (NOTE 29)			0	–		29	30		–			0	SHUNT–TRIP (NOTE 29)
HEAT LAMP	1.8			12	20GF	31	32	20GF	12	0.3			REFRIG. EQUIP. STAND
SHUNT–TRIP (NOTE 29)		0		–		33	34		–		0		SHUNT–TRIP (NOTE 29)
5 WELL HOT FOOD			3.0	8	40GF	35	36	20GF	12			1.7	MICROWAVE
1 WELL HOT FOOD	0.6			12	20GF	37	38	20GF	12	1.7			MICROWAVE
SALAD BAR		0.8		12	20GF	39	40	20GF	12		1.7		MICROWAVE
PRINTERS			1.8	12	20GF	41	42	20GF	12			0.4	REFRIGERATOR
HEATED SHELVES	1.8			12	20GF	43	44	20GF	12	0.8			FREEZER
HEATED SHELVES		1.8		12	20GF	45	46	30	10		1.9		ICE MAKER
HEATED SHELVES			1.8	12	20GF	47	48	20GF	12			0.3	REFRIGERATOR
COFFEE BREWER	3.1			10	30GF	49	50	20GF	12	1.0			POS SYSTEM
		3.1		10		51	52	20GF	12		0.4		ICE/SODA DISPENSERS
BAG–IN BOX			1.2	12	20GF	53	54	20GF	12			1.2	CARBONATOR
TEA BREWER	1.8			12	20GF	55	56	20GF	12	1.2			CARBONATOR
TEA BREWER		1.8		12	20GF	57	58	20	12		1.4		ROLL WARMER
TEA BREWER			1.8	12	20GF	59	60	20GF	12			0.6	U/C REFRIGERATORS
TEA BREWER	1.8			12	20GF	61	62	20GF	12	1.2			CONVEN. RECEPTACLES
COFFEE BREWER		3.1		10	30GF	63	64	20GF	12		0.8		CONVEN. RECEPTACLES
			3.1	10		65	66	20GF	12			1.2	CONVEN. RECEPTACLES
KEF–1	0.9			12	15	67	68	20GF	12	1.2			CONVEN. RECEPTACLES
		0.9		12		69	70	20GF	12		1.2		CONVEN. RECEPTACLES
			0.9	12		71	72	20GF	12			1.2	CONVEN. RECEPTACLES
KEF–2	1.3			12	20	73	74	20GF	12	0.8			CONVEN. RECEPTACLES
		1.3		12		75	76	20	12		0.4		KITCHEN HOOD LIGHTS
			1.3	12		77	78	20	–			0	SPARE
SPARE	0			–	20	79	80	20	–	0			SPARE
SPARE		0		–	20	81	82	20	–		0		SPARE
SPARE			0	–	20	83	84	20	–			0	SPARE
	17.2									11.4			A: 28.6 KVA
		17.5			PANEL "K"						13.7		B: 31.2 KVA
			19.0									9.9	C: 28.9 KVA
													TOTAL: 88.7 KVA

PANEL "K" KITCHEN EQUIPMENT LOAD: 74.1 KVA
DIVERSIFIED AT 65% PER NEC 220.56: 48.2 KVA
NON KITCHEN EQUIPMENT LOAD: 14.6 KVA
DIVERSIFIED PANEL LOAD: 62.8 KVA

VOLTAGE: 120/277 RELAYS; PROVIDE BARRIERS AS NEEDED | SURFACE MOUNTED

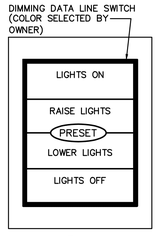
NOTES: SEE CONTROL DETAIL THIS SHEET

CIRCUIT	DESCRIPTION	VIA TIMER	VIA SWITCH	DIMMED	ZONE	RELAY #	RELAY #	ZONE	DIMMED	VIA SWITCH	VIA TIMER	DESCRIPTION	CIRCUIT
A–13	EXTERIOR LIGHTS	D2T	–	–	–	1	2	–	–	–	D2T	EXTERIOR SIGN	A–7
A–15	EXTERIOR LIGHTS	D2T	–	–	–	3	4	–	–	–	D2T	EXTERIOR SIGN	A–9
A–27	SITE SIGN	D2T	–	–	–	5	6	–	–	–	D2T	EXTERIOR SIGN	A–11
A–29	SITE LIGHTING	D2T	–	–	–	7	8	Z1	ELV	DL1	–	SOUTH DINING AREA	A–20
A–31	SITE LIGHTING	D2T	–	–	–	9	10	Z2	ELV	DL2	–	SOUTH DINING AREA	A–20
A–20	VESTIBULE	–	DL5	ELV	Z5	11	12	Z3	ELV	DL3	–	SOUTH DINING AREA	A–16
A–18	NORTH DINING AREA	–	DL6	ELV	Z6	13	14	Z4	ELV	DL4	–	SOUTH DINING AREA	A–16
A–18	NORTH DINING AREA	–	DL7	ELV	Z7	15	16	Z10	ELV	DL10	–	NORTH DINING AREA	A–16
A–16	NORTH DINING AREA	–	DL8	ELV	Z8	17	18	Z11	ELV	DL11	–	NORTH DINING AREA	A–16
A–16	NORTH DINING AREA	–	DL9	ELV	Z9	19	20	–	–	–	–	SPACE	SPACE
SPACE	SPACE	–	–	–	–	21	22	–	–	–	–	SPACE	SPACE
SPACE	SPACE	–	–	–	–	23	24	–	–	–	–	SPACE	SPACE

LIGHTING CONTROL PANEL LEGEND:
BLINK – TURN OFF FOR 1 SECOND AT END OF DAY TO SIGNAL AUTOMATIC SWITCH SHUTDOWN
D2D – DUSK TO DAWN CONTROL VIA PHOTOCELL
D2T – DUSK TO PRESET TIME VIA PHOTOCELL AND TIMESWITCH
DL# – DATA LINE SWITCH (# IDENTIFIES SWITCH ON PLANS)
TIME – TIME SCHEDULE

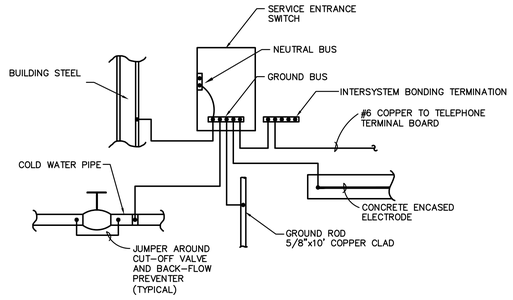
LIGHTING CONTROL PANEL "LCP"

#	SWITCH TYPE
DL#	1 ZONE ON/OFF, RISER/LOWER, (1) PRESET DIMMING LEVEL TO BE COORDINATED WITH OWNER (# REPRESENTS LIGHTING ZONE)



DATA LINE SWITCH DETAIL

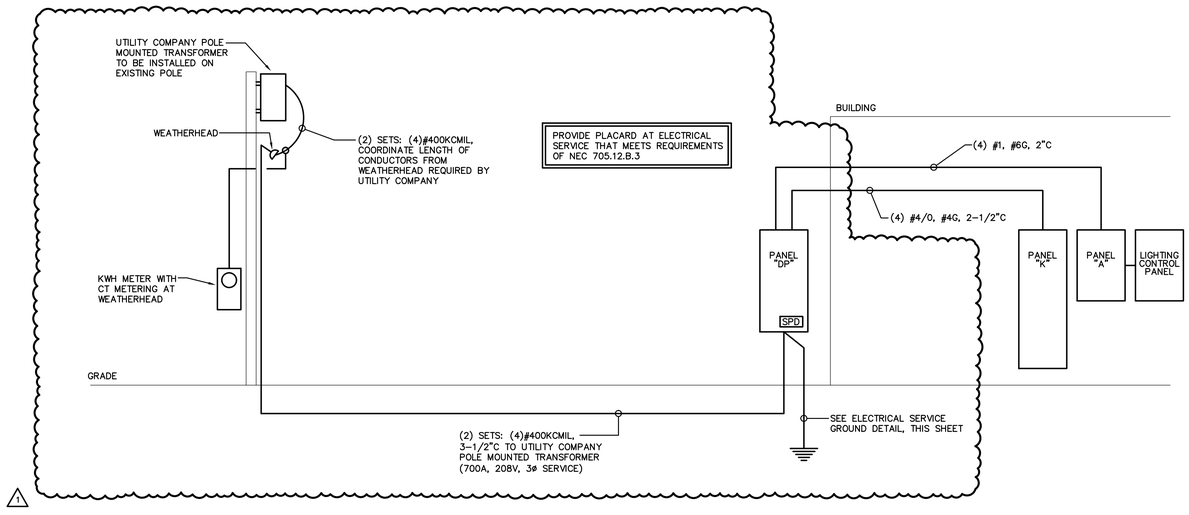
NO SCALE
*TYPICAL FOR DIMMING DATA LINE SWITCHES 1 THRU 11



ELECTRICAL SERVICE GROUND

NO SCALE

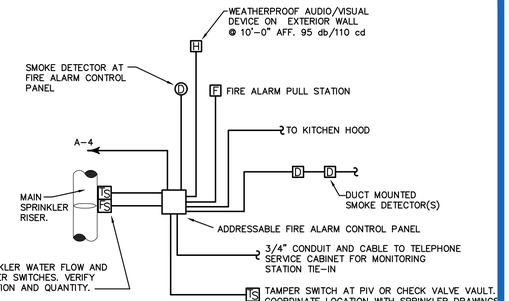
BOND ALL INDICATED SYSTEMS THAT ARE PRESENT TO GROUNDING ELECTRODE SYSTEM PER NEC 250.50. ALL GROUNDING ELECTRODE CONDUCTORS SHALL BE SIZED PER NEC 250.66.



⚠1

POWER RISER DIAGRAM

NO SCALE



SPRINKLER MONITOR DETAIL

NO SCALE

NOTES:

1. COORDINATE WITH SPRINKLER SYSTEM DRAWINGS FOR QUANTITY AND LOCATIONS OF ALL FLOW AND TAMPER SWITCHES INCLUDING TAMPER SWITCH AT EXTERIOR POST INDICATOR VALVE AND CHECK VALVE VAULT.

2. OPERATION OF ANY SPRINKLER TAMPER SWITCH OR DUCT MOUNTED SMOKE DETECTOR SHALL CAUSE "SUPERVISORY" ALARM AT FIRE ALARM CONTROL PANEL.

3. COORDINATE WITH FIRE PROTECTION ENGINEER PRIOR TO BE BID FOR SPRINKLER SYSTEM TYPE OF EXTERIOR AUDIO/VISUAL ALARM TO BE USED (WATER GONG, 120 VOLT AUDIBLE APPLIANCE OR FIRE ALARM SYSTEM AUDIO–VISUAL). INSTALL/INTERFACE AUDIO–VISUAL DEVICE PER NFPA 13, 72 AND THE AUTHORITY HAVING JURISDICTION.

1 PANEL SCHEDULES AND RISER
NO SCALE

P. STUDIO
761 OLD HICKORY BLVD STE 301
BRENTWOOD, TN 37027
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email | hello@paradymstudio.com

OLD GLORY RESTAURANT

TRADEWINDS DR., PARCEL 33.5
COLUMBIA TN

PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS
1 ADD #01 02/01/24

PROJECT NUMBER: 23079
DRAWN BY: JW
DATE: 12.22.23
DRAWING: PANEL SCHEDULES AND RISER

E401

Page 142 of 256 • Lot 0001 - Tradewind Dr
Project: 23228 Drawing: 23228-E400-E403 (Revision #01).dwg

COMcheck Software Version 4.1.5.1

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title:
Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Dining (Common Space Types:Dining Area - Family Restaurant)	1585	0.64	1014
2-Kitchen/Prep (Common Space Types:Food Preparation)	1614	0.95	1533
3-Restrooms (Common Space Types:Restrooms)	320	0.77	246
4-Office (Common Space Types:Office - Enclosed)	82	0.84	69
5-Vestibule (Common Space Types:Lobby - General)	105	0.90	94
6-Riser Room (Common Space Types:Storage >=50 - <=1000 sq.ft.)	67	0.41	27
		Total Allowed Watts =	2985

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Dining (Common Space Types:Dining Area - Family Restaurant)				
LED 1 copy 1: A1: Downlight: Other:	1	3	24	72
LED 3: C1: Pendant: Other:	1	6	20	120
LED 4: D1: Pendant: Other:	1	11	30	330
LED 6: G1: Pendant: Other:	1	1	42	42
Track lighting 1: H1: Track Lighting: Wattage based on total luminaires	0	0	272	272
Track lighting 2: I1: Track Lighting: Wattage based on total luminaires	0	0	560	560
LED 8: J1: Adjustable Downlight: Other:	1	3	9	27
LED 10: M1: Tape Light: Other:	1	1	45	45
Track lighting 3: N1: Track Light: Wattage based on total luminaires	0	0	20	20
2-Kitchen/Prep (Common Space Types:Food Preparation)				
LED 2 copy 1: B1: 2x2 Panel: Other:	1	25	42	1050
3-Restrooms (Common Space Types:Restrooms)				
LED 1 copy 1: A1: Downlight: Other:	1	5	24	120
LED 2 copy 2: B1: 2x2 Panel: Other:	1	1	42	42
LED 7: F1: Vanity Light: Other:	1	5	16	80
4-Office (Common Space Types:Office - Enclosed)				
LED 2 copy 3: B1: 2x2 Panel: Other:	1	2	42	84

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
5-Vestibule (Common Space Types:Lobby - General)				
LED 5: E1: Pendant: Other:	1	1	44	44
6-Riser Room (Common Space Types:Storage >=50 - <=1000 sq.ft.)				
LED 15: L1: Surface Light: Other:	1	1	41	41
			Total Proposed Watts =	2949

Interior Lighting PASSES: Design 1% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COM*check* Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version 4.1.5.1

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.2 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1, C405.2.2.2 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3, C405.2.3.1, C405.2.3.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.2.4 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.3 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.6 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.7 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8.2, C405.8.2.1 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.9 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.4.1 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

1 ENERGY CALCULATIONS
NO SCALE

PARADYM STUDIO
761 OLD HICKORY BLVD STE 301
BRENTWOOD, TN 37027
call | 615.258.5562
email | hello@paradymstudio.com

OLD GLORY RESTAURANT

TRADEWINDS DR., PARCEL 33.5
COLUMBIA TN

ANTHONY JOHNSON — REGISTERED — No. 106019 — STATE OF TENNESSEE — 12/22/23

PARSONS ENGINEERING, INC.
NASHVILLE, TENNESSEE
PARSONSENGINEERING.COM

ISSUED FOR
☐ Lease Outline Diagram
☐ Schematic Design
☐ Design Development
■ Construction

REVISIONS

PROJECT NUMBER: 23079

DRAWN BY: JW

DATE: 12.22.23

DRAWING ENERGY CALCULCATIONS

E402

Project: 23228 Drawing: 23228-E400-E403.dwg
Page 143 of 256 • Lot 0001 - Tradewind Dr

ELECTRICAL SPECIFICATIONS

SECTION 16000 GENERAL PROVISIONS

PART 1 GENERAL

1.01 REFERENCE STANDARDS

A. NFPA 70 NATIONAL ELECTRICAL CODE

B. NFPA 101 LIFE SAFETY CODE

C. NFPA 72 NATIONAL FIRE ALARM CODE

D. ALL OTHER APPLICABLE STATE AND LOCAL CODES.

1.02 SUBMITTALS

A. SHOP DRAWINGS:

1. SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, SIX COPIES OF COMPLETE DESCRIPTIVE DATA ON ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY OTHER SECTIONS OF THIS SPECIFICATION. CLEARLY INDICATE ALL PROPOSED SUBSTITUTIONS AND DEVIATIONS FROM DRAWINGS AND SPECIFICATIONS.

2. CHECK ALL SUBMITTALS FOR CLEARANCES AND COORDINATION WITH OTHER TRADES. SUBMITTALS SHALL BE CERTIFIED, BY THE CONTRACTOR'S APPROVAL STAMP, THAT ALL CONDITIONS HAVE BEEN CHECKED AND THAT NO CONFLICTS EXIST.

B. RECORD DRAWINGS

1. SUBMIT, TO THE OWNER, RECORD DRAWINGS SHOWING FIELD CHANGES MARKED IN RED.

1.03 COORDINATION

A. UTILITY COMPANIES

1. COORDINATE WITH UTILITY COMPANIES FOR SPECIFIC REQUIREMENTS FOR ELECTRICAL POWER, TELEPHONE AND CABLE ACCESS TELEVISION(CATV) SERVICES.

2. INSTALL ELECTRICAL SERVICE IN ACCORDANCE WITH CURRENT UTILITY COMPANY REQUIREMENTS.

B. OTHER TRADES

1. WHERE ELECTRICAL DEVICES ARE INDICATED IN THE VICINITY OF CASEWORK, COORDINATE WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS PRIOR TO ROUGH-IN.

2. COORDINATE WITH MECHANICAL DRAWINGS FOR POWER AND CONTROL REQUIREMENTS FOR THE SPECIFIC EQUIPMENT TO BE INSTALLED AND FOR EQUIPMENT SUCH AS STARTERS AND DISCONNECT SWITCHES THAT MAY BE FURNISHED WITH THE EQUIPMENT.

C. OWNER FURNISHED EQUIPMENT

1. COORDINATE WITH VENDOR'S OF OWNER FURNISHED EQUIPMENT FOR POWER REQUIREMENTS PRIOR TO ROUGH-IN. COORDINATION SHALL INCLUDE BUT NOT BE LIMITED TO OVERCURRENT PROTECTION TYPE AND SIZE, WIRE SIZE, NEMA CONFIGURATION OF ASSOCIATED RECEPTACLES, ETC. OWNER FURNISHED EQUIPMENT TYPICALLY INCLUDES BUT IS NOT LIMITED TO ELEVATORS, REFRIGERATION EQUIPMENT AND GENERAL USE APPLIANCES.

1.04 WORK INCLUDED

A. THE WORK OF THIS SECTION INCLUDES FURNISHING OF LABOR AND MATERIALS AS REQUIRED FOR INSTALLATION OF A NEW ELECTRICAL DISTRIBUTION SYSTEM INCLUDING SERVICE, FEEDERS, PANELBOARDS, BRANCH CIRCUITS, LIGHTING, AND CONNECTIONS TO ALL EQUIPMENT REQUIRING ELECTRICAL POWER.

B. INSTALLATION OF CONDUIT FOR TELEPHONE, DATA AND CATV WIRING.

C. INSTALLATION OF A FIRE SPRINKLER MONITORING SYSTEM AS INDICATED ON THE DRAWINGS.

1.05 DRAWINGS

A. THE DRAWINGS ARE PARTLY DIAGRAMMATIC AND DO NOT SHOW IN DETAIL ALL REQUIRED FEATURES OF THE WORK NOR CONCEALED CONDITIONS. THEY SHALL BE SUPPLEMENTED BY THE CONTRACTOR'S KNOWLEDGE AND EXPERIENCE.

PART 2 PRODUCTS

2.01 GENERAL

A. ALL ELECTRICAL EQUIPMENT INSTALLED SHALL BEAR THE UL LABEL EXCEPT WHERE UL DOES NOT LABEL SUCH EQUIPMENT.

2.02 GUARANTEE

A. FURNISH A WRITTEN GUARANTEE THAT ALL EQUIPMENT FURNISHED AND INSTALLED WILL BE FREE OF DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FROM DATE OF ACCEPTANCE OF THE WORK BY THE OWNER. PROMPTLY REPLACE AND REPAIR ALL DEFECTIVE EQUIPMENT AND ALL OTHER EQUIPMENT DAMAGED THEREBY AT NO ADDITIONAL COST TO THE OWNER.

PART 3 EXECUTION

3.01 GENERAL

A. VISIT PROJECT SITE BEFORE SUBMISSION OF BID AND BECOME FAMILIAR WITH EXISTING CONDITIONS AND LOCATIONS OF EXISTING UTILITIES.

B. THE ENTIRE INSTALLATION SHALL BE MADE IN A NEAT MANNER BY PERSONS SKILLED IN THE ELECTRICAL TRADE AND SHALL BE IN ACCORDANCE WITH THE REFERENCE STANDARDS LISTED ABOVE.

C. MAKE POWER CONNECTIONS TO AIR CONDITIONING EQUIPMENT AND OWNER FURNISHED EQUIPMENT. FURNISH AND INSTALL ALL ASSOCIATED RECEPTACLES AND DISCONNECT SWITCHES. FUSE SIZES FOR DISCONNECT SWITCHES SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER.

D. FURNISH AND INSTALL CONDUIT AND WIRE FOR AIR CONDITIONING CONTROL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR LOCATIONS AND REQUIREMENTS.

3.02 TESTING

A. ALL SYSTEMS AND EQUIPMENT INSTALLED SHALL BE COMPLETELY TESTED AND SHALL BE LEFT IN GOOD WORKING ORDER.

SECTION 16050 BASIC ELECTRICAL MATERIALS AND METHODS

PART 1 GENERAL

NOT APPLICABLE

PART 2 PRODUCTS

2.01 RACEWAYS

A. RIGID STEEL CONDUIT

B. ELECTRICAL METALLIC TUBING

C. POLYVINYLCHLORIDE CONDUIT

2.02 WIRES AND CABLES

A. SERVICE AND FEEDERS: COPPER, 600 VOLT, TYPE THHN OR THWN INSULATION OR ALUMINUM CONDUCTOR, 600 VOLT, TYPE XHHW-2 INSULATION. SIZES INDICATED ON DRAWINGS ARE FOR COPPER. ALUMINUM CONDUCTORS SHALL BE SIZED TO HAVE AMPACITY EQUAL TO COPPER CONDUCTORS INDICATED ON DRAWINGS.

B. BRANCH CIRCUIT WIRES: COPPER CONDUCTOR, 600 VOLT, TYPE THHN OR THWN INSULATION.

C. BRANCH CIRCUIT CABLES: COPPER CONDUCTOR, 600 VOLT, TYPE MC WITH INSULATED EQUIPMENT GROUNDING CONDUCTOR.

D. CONTROL CIRCUIT CABLES: COPPER CONDUCTOR, NO.14 AWG, TYPE THHN, OR AS REQUIRED BY EQUIPMENT MANUFACTURER.

2.03 JUNCTION BOXES – PROVIDE STEEL BOXES FOR INTERIOR APPLICATIONS AND CAST TYPE BOXES FOR OUTDOOR APPLICATIONS.

2.04 WIRING DEVICES

A. WALL SWITCHES: AC GENERAL USE SNAP SWITCH WITH TOGGLE HANDLE, SPECIFICATION GRADE, 20 AMPERES, 120-277 VOLTS.

B. WALL DIMMER SWITCHES, APPROPRIATE FOR LED APPLICATIONS.

C. WALL OCCUPANCY SENSORS TO BE DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC). COMBINATION DIMMING TYPE WHERE INDICATED.

D. CEILING MOUNTED OCCUPANCY SENSORS, DUAL TECHNOLOGY (PASSIVE INFRARED AND ULTRASONIC) TYPE. CORRIDOR APPLICATION SENSORS TO BE PASSIVE INFRARED TYPE. PROVIDE POWER PACKS AND/OR RELAYS AND ADDITIONAL SENSORS WHERE REQUIRED BY VENDOR.

E. CEILING MOUNTED DAYLIGHT SENSORS.

F. RECEPTACLES: TYPE 5-15R, UNLESS INDICATED OTHERWISE, SPECIFICATION GRADE. DUPLEX RECEPTACLES ON DEDICATED CIRCUITS SHALL BE NEMA TYPE 5-20R. LISTED TAMPER RESISTANT RECEPTACLES SHALL BE PROVIDED IN THOSE AREAS DESIGNATED PER NEC 406.12. OUTDOOR RECEPTACLES SHALL BE WEATHER RESISTANT, "WHILE-IN-USE" TYPE UNLESS NOTED OTHERWISE. DEVICE COLOR TO BE SELECTED BY ARCHITECT.

G. COVERPLATES

1. INDOOR:

A. OFFICE AREAS: NYLON, COLOR TO BE SELECTED BY ARCHITECT.

B. WAREHOUSE AREAS: GALVANIZED STEEL.

2. OUTDOOR: PAINTED, CAST ALUMINUM, WEATHERPROOF WHILE IN USE TYPE.

2.05 IDENTIFICATION

A. PROVIDE LAMINATED PLASTIC TAGS FOR ALL {SWITCHBOARDS, DISTRIBUTION PANELBOARDS, AUTOMATIC TRANSFER SWITCHES,} LIGHTING PANELBOARDS, LIGHTING CONTROL ENCLOSURES AND DISCONNECT SWITCHES. {SWITCHBOARD AND DISTRIBUTION PANEL CIRCUITS SHALL ALSO BE IDENTIFIED WITH LAMINATED PLASTIC TAGS ADJACENT TO ASSOCIATED CIRCUIT BREAKERS ON DEAD FRONT OF SWITCHBOARD/PANEL.} TAGS SHALL COMPLETELY IDENTIFY CIRCUIT OR EQUIPMENT CONTROLLED.

B. LIGHTING PANELBOARD DIRECTORIES SHALL BE TYPE WRITTEN AND PROVIDED WITH DESCRIPTIONS OF CIRCUITS IN ACCORDANCE WITH NEC 408.4.

C. PROVIDE LAMINATED PLASTIC TAG INDICATING "PROTECTED BY GFCI CIRCUIT BREAKER" FOR ANY RECEPTACLES (120 VOLT OR 208 VOLT) THAT ARE SERVED FROM GROUND-FAULT CIRCUIT-INTERRUPTER CIRCUIT BREAKERS WITHIN LIGHTING OR DISTRIBUTION PANELS.

PART 3 EXECUTION

3.01 RACEWAYS

A. ALL RACEWAYS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' INSTRUCTIONS.

B. PERMITTED USAGE:

1. ALL INTERIOR RACEWAYS SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING (EMT).

2. RACEWAYS EXPOSED TO EXTERIOR, SUBJECT TO PHYSICAL DAMAGE, OR CAST IN CONCRETE SHALL BE GALVANIZED RIGID STEEL CONDUIT (RGS).

3. RACEWAYS UNDERGROUND SHALL BE SCHEDULE 40 PVC WITH GALVANIZED RIGID STEEL (RGS) ELBOWS.

4. RACEWAYS EXPOSED TO CORROSIVE ENVIRONMENTS SHALL BE SUITABLE FOR THE ENVIRNOMENT.

C. INSTALLATION:

1. IN LONG RACEWAYS FURNISH AND INSTALL THE PROPER NUMBER AND SIZE PULL BOXES TO FACILITATE INSTALLATION OF CONDUCTORS.

2. INSTALL SEPARATE GROUNDING CONDUCTOR IN EACH RACEWAY.

3. PROVIDE RIGID GALVANIZED STEEL ELBOWS AND VERTICAL SECTIONS FOR RUNS OF PVC CONDUIT ENTERING GROUND OR FLOOR IN UNPROTECTED LOCATIONS.

3.02 WIRES AND CABLES

A. CONDUCTORS SHOWN ON DRAWINGS AS SIZED FOR COPPER UNLESS NOTED OTHERWISE. WHEN USING ALUMINUM, SIZE FOR EQUAL OR GREATER AMPACITY, AND RESIZE CONDUIT AS REQUIRED.

B. ALL POWER WIRING SHALL BE INSTALLED IN CONDUIT EXCEPT AS PERMITTED BELOW.

C. BRANCH CIRCUITS RUN CONCEALED IN WALLS OR CEILINGS AND RATED AT 20 AMPS MAY BE TYPE MC CABLE.

D. LOW VOLTAGE CONTROL AND SIGNAL CABLE MAY BE RUN OPEN WHEN CONCEALED ABOVE ACCESSIBLE CEILINGS. CABLES AND CABLE SUPPORTS INSTALLED IN AIR PLENUMS MUST BE PLENUM RATED. OPEN WIRING SHALL BE SUPPORTED FROM STRUCTURE.

SECTION 16400 SERVICE AND DISTRIBUTION

PART 1 GENERAL

1.01 SUBMITTALS

A. PANELBOARDS

B. DISCONNECT SWITCHES

C. FUSES

PART 2 PRODUCTS

2.01 PANELBOARDS

A. CIRCUIT BREAKER TYPE AS DESCRIBED ON THE PANEL SCHEDULES. PANELBOARDS SHALL BE RATED FOR THE SHORT CIRCUIT INTERRUPTING CAPACITY INDICATED AND SERIES COMBINATION RATINGS MUST BE UL RECOGNIZED. LOAD CENTER TYPE PANELBOARDS ARE NOT ACCEPTABLE. APPROVED MANUFACTURERS ARE EATON-CUTLER HAMMER, ABB-GENERAL ELECTRIC, SIEMENS, AND SQUARE D.

B. RATED LESS THAN 1600A TO BE CIRCUIT BREAKER TYPE AS DESCRIBED ON THE PANEL SCHEDULES. PANELBOARDS TO BE RATED FOR THE SHORT CIRCUIT INTERRUPTING CAPACITY INDICATED AND SERIES COMBINATION RATINGS MUST BE UL RECOGNIZED. LOAD CENTER TYPE PANELBOARDS ARE NOT ACCEPTABLE. APPROVED MANUFACTURERS ARE EATON-CUTLER HAMMER, ABB-GENERAL ELECTRIC, SIEMENS, AND SQUARE D.}

2.02 DISCONNECT SWITCHES

A. FUSIBLE OR NONFUSIBLE QUICK-MAKE, QUICK-BREAK, LOAD INTERRUPTER ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN "ON" POSITION. APPROVED MANUFACTURERS ARE EATON CUTLER HAMMER, ABB-GENERAL ELECTRIC, SIEMENS, AND SQUARE D.

2.03 FUSES

A. FUSES RATED ABOVE 600 AMPS SHALL BE UL CLASS L EQUAL TO BUSSMAN LOW-PEAK KRP-C. FUSES RATED AT 600 AMPS AND BELOW SHALL BE UL CLASS RK1 EQUAL TO BUSSMAN LOW-PEAK LPN-RK (250 VOLT) OR LPS-RK (600 VOLT).

PART 3 EXECUTION

3.01 GENERAL

A. MAINTAIN CODE REQUIRED WORKING CLEARANCES AROUND ALL ELECTRICAL EQUIPMENT. COORDINATE INSTALLATION WITH ARCHITECTURAL FEATURES, PIPING LOCATIONS, AND DUCTWORK.

B. ELECTRICAL EQUIPMENT SUCH AS SWITCHBOARDS, PANELBOARDS, DISCONNECTS, ENCLOSED CIRCUIT BREAKERS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS, THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC HAZARDS PER NEC 110.16. THE MARKING SHALL BE LOCATED AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

3.02 PANELBOARDS

A. INSTALL NEW PANELBOARDS AS INDICATED.

B. ALL PANELS SHALL HAVE ENGRAVED PLASTIC LABELS AND TYPEWRITTEN DIRECTORIES. DIRECTORIES SHALL DESCRIBE LOAD FOR EACH BRANCH CIRCUIT.

3.04 DEMOLITION

A. REMOVE AND DISPOSE OF EQUIPMENT, CONDUIT, WIRE, DEVICES, LIGHTING FIXTURES, AND OTHER EQUIPMENT AS INDICATED OR REQUIRED DUE TO ARCHITECTURAL MODIFICATIONS.

SECTION 16500 LIGHTING

PART 1 GENERAL

1.01 SUBMITTALS

A. LIGHTING FIXTURES

PART 2 PRODUCTS

2.01 GENERAL

A. PROVIDE LIGHTING FIXTURES AS SPECIFIED ON LIGHTING FIXTURE SCHEDULE OF SIZES, TYPES, RATINGS, AND WITH FEATURES INDICATED. SUBSTITUTIONS SHALL BE EQUAL IN PERFORMANCE AND APPEARANCE TO FIXTURES LISTED.

B. SUBSTITUTE LIGHTING FIXTURES SHALL NOT INCREASE TOTAL LIGHTING LOAD IN WATTS.

C. FIXTURES SHALL BE COMPLETE WITH LAMPS, DRIVERS AND ALL PARTS, HARDWARE, AND ACCESSORIES FOR INSTALLATION AND PROPER OPERATION.

2.02 LIGHT EMITTING DIODE (LED) LAMPS:

A. LUMEN OUTPUT ASSOCIATED WITH LED LIGHT FIXTURES SHALL BE MEASURED BY IESNA STANDARD LM-79-08 IN AN ACCREDITED LAB. EXACT TESTED LUMEN OUTPUT SHALL BE CLEARLY NOTED ON SUBMITTALS.

B. INDIVIDUAL LEDS SHALL BE CONNECTED SUCH THAT CATASTROPHIC LOSS OR THE FAILURE OF ONE LED WILL NOT RESULT IN THE LOSS OF LIGHT FROM THE ENTIRE LUMINAIRE.

C. FOR INTERIOR APPLICATIONS PROVIDE COLOR TEMPERATURE OF 3000K AND FOR EXTERIOR PROVIDE 4000K{MAXIMUM COLOR TEMPERATURE FOR NASHVILLE EXTERIORS IS TO BE 3000K}.

D. LUMINAIRES SHALL MAINTAIN 70% LUMEN OUTPUT(L70) FOR A MINIMUM OF 50,000 HOURS.

E. LUMINAIRES SHALL NOT DEPRECIATE MORE THAN 20% AFTER 10,000 HOURS OF USE.

2.03 DIMMING DRIVERS:

A. LED DIMMER DRIVERS SHALL BE COMPATIBLE WITH ASSOCIATED LIGHT FIXTURE DIMMING TYPE(I.E. 0-10V, ELV, MLV, ETC)OR WITH DIMMING CONTROLS WHERE DIMMING IS INDICATED ON THE PLANS INCLUDING LIGHTING CONTROL PANELS.

B. CONTINUOUS DIMMING DRIVERS: LED LUMINAIRES SHALL DIM TO (10%, 1%, OR 0.1%) AS SPECIFIED IN THE LUMINAIRE SCHEDULE ON THE PLANS WITHOUT VISIBLE FLICKER OR 'POPCORN EFFECT'. 'POPCORN EFFECT' IS DEFINED AS THE LUMINAIRE BEING ON A PRE-SET DIMMED LEVEL (LESS THAN 100%), AND GOING TO 100% PRIOR TO RETURNING TO THE PRE-SET LEVEL WHEN POWER IS RETURNED TO THE LUMINAIRE. CONTINUOUS DIMMING DRIVERS SHALL USE 0-10V CONTROL.

2.03 EMERGENCY LIGHTING BATTERY UNITS

A. MINIMUM 1500 LUMENS FOR 90 MINUTES WHETHER INTEGRAL OR REMOTE.

PART 3 EXECUTION

3.01 GENERAL

A. INSTALL FIXTURES AS INDICATED ON DRAWINGS. REFER TO REFLECTED CEILING PLAN FOR EXACT LOCATIONS.

END OF ELECTRICAL SPECIFICATIONS

1 ELECTRICAL SPECIFICATIONS
NO SCALE

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ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS

PROJECT NUMBER:
23079

DRAWN BY:
JW

DATE:
12.22.23

DRAWING
ELECTRICAL SPECIFICATIONS

E403

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Project: 23228 Drawing: 23228-E400-E403.dwg

GENERAL CONTRACTOR RESPONSIBILITIES:

RESPONSIBLE FOR INFORMING OF JOB SITE SAFETY CONDITIONS, I.E.; POST TENSION CONCRETE, CRANES, WELDING AREAS, LIVE ELECTRICAL WORK, OPEN PITS, ETC.
RESPONSIBLE FOR ALL AREAS TO BE CLEAN AND ALL FINISHES COMPLETED BEFORE EQUIPMENT DELIVERY (FRP, TILE AND BASE, PAINT, CEILING GRID, DUCT WORK, ETC.)
RESPONSIBLE FOR SPECIAL CONDITIONS CONCERNING WALL BACKING OR BLOCKING FOR KITCHEN AND BAR EQUIPMENT NOTE: K.E.C. IS NOT RESPONSIBLE FOR SHELF FAILURE IF BLOCKING IS NOT PROVIDED.
PROVIDE AVAILABLE ACCESS (MINIMUM CLEARANCE OF 42) TO ALL AREAS REQUIRING KITCHEN OR BAR EQUIPMENT
INFORM K.E.C OF ANY SCHEDULE CHANGES, PLAN CHANGES OR UPDATES OF ANY KIND IN REFERENCE TO KITCHEN EQUIPMENT. CHANGES MADE TO A SCHEDULED INSTALLATION REQUIRE A MINIMUM 2 WEEKS' NOTICE, PRIOR TO THE PREDETERMINED INSTALLATION DATE.
WALK-IN COOLER SLAB MUST BE TRANSIT/LASER LEVEL. G.C. 'S ROOFER TO FLASH AND COUNTER-FLASH WALK-IN ROOF MEMBRANE AS NEEDED.
ALL FINAL ELECTRICAL, PLUMBING, GAS & MECHANICAL CONNECTIONS
ANY AND ALL FABRICATED MILLWORK ITEMS WILL BE DESIGNED AND MANUFACTURED TO ARCHITECT'S HOLD TO DIMENSIONS.
PROVIDE DUMPSTER FOR TRASH REMOVAL.

ELECTRICAL:

PROVIDE ALL ROUGH-IN AND POWER SUPPLIES FOR ALL EQUIPMENT IN FLOORS, WALLS AND CEILINGS AS SPECIFIED AND SHOWN ON DRAWINGS.
MAKE ALL REQUIRED ELECTRICAL PENETRATIONS
RESPONSIBLE FOR SEALING ALL ELECTRICAL PENETRATIONS IN COOLER/FREEZER PANELS AND IN CONDUITS OR FLEXIBLE CONNECTIONS
MAKES ALL FINAL CONNECTIONS TO FS EQUIPMENT
RESPONSIBLE FOR CONTROL WIRING ON ALL FOODSERVICE EQUIPMENT (I.E. REFRIGERATION, DEFROST TIMERS, WATER SOLENOID VALVES, SINK FAUCETS, EXHAUST HOOD SYSTEMS, ETC.)
RESPONSIBLE FOR INSTALLING AND WIRING OF LIGHTING FIXTURES AND ALARM SYSTEMS PROVIDED BY K.E.C. IN WALK-IN COOLER/FREEZERS
RESPONSIBLE FOR INSTALLATION AND CONNECTION OF HEAT TAPES ON DRAIN LINES
RESPONSIBLE FOR SIZING OF ALL WIRING ON SPECIFIED EQUIPMENT WITH DIRECT OR HARD CONNECTIONS AND PROVIDE CORD AND PLUG WHEN REQUIRED.
FURNISH AND INSTALL ALL ELECTRICAL COMPONENTS INCLUDING DISCONNECTS, CONDUIT, WIRE, COVER PLATES, STARTERS, CORD SETS AND OTHER RELATED ITEMS NECESSARY FOR FINAL CONNECTIONS. MOUNTING OF COMPONENTS SHALL NOT INTERFERE WITH THE INSTALLATION OR OPERATION OF FOODSERVICE EQUIPMENT.
INSTALL ALL ITEMS PROVIDED LOOSE BY THE KEC PER SPECIFICATIONS SUCH AS, BUT NOT LIMITED TO, CONTROL PANELS, STARTERS AND DISCONNECTS.
FURNISH AND INSTALL ALL CONTROL WIRING AND/OR POWER WIRING BETWEEN ELECTRICAL COMPONENTS AS SPECIFIED SUCH AS, BUT NOT LIMITED TO, EXHAUST/MAKE-UP AIR FANS AND THE VENTILATION HOOD CONTROL PANEL, WALK-IN COOLER/FREEZER COILS AND THEIR RESPECTIVE COMPRESSORS AND THE WALK-IN COOLER/FREEZER LIGHTS.

PLUMBING:

RESPONSIBLE FOR ALL FLOOR, WALL AND CEILING PENETRATIONS OR SLEEVES AND INCLUDING SEALING SUCH PENETRATIONS
RESPONSIBLE FOR ALL DRAIN ASSEMBLIES FOR ALL KITCHEN AND BAR EQUIPMENT, SINKS, ETC.
RESPONSIBLE FOR STREET ELBOWS OR OTHER FITTINGS NEEDED TO COMPLETE ASSEMBLY FOR ALL FLOOR AND WALL MOUNTED SINKS
RESPONSIBLE FOR LOCATING ALL FLOOR DRAINS OR FLOOR SINK TO AVOID CONFLICT WITH LEG OR CASTER ASSEMBLIES
RESPONSIBLE FOR INSTALLING ALL SODA AND BEER LINE CHASES (NO 90'S, ALL SWEEPING ELLS)
RESPONSIBLE FOR WALK-IN COOLER/FREEZER DRAIN LINES INCLUDING TRAPS AND CLEAN-OUTS. COPPER MUST BE USED FOR CONDENSATE DRAIN LINES WHERE HEAT TAPE IS APPLIED.
RESPONSIBLE FOR ICE MACHINE WATER HOOK UP AND DRAIN CONNECTIONS INCLUDING WATER FILTER
RESPONSIBLE FOR ALL WATER AND DRAIN CONNECTIONS ON ALL KITCHEN AND BAR EQUIPMENT INCLUDING PIPING, TRAPS, TAILPIECES, VENTS, VACUUM BREAKERS/BACKFLOW PREVENTERS, TRAPS, STOPS, VALVES, FITTINGS, GAUGES, UNIONS, SHUT-OFFS, WATER HAMMER ARRESTERS AND OTHER RELATED ITEMS NECESSARY FOR FINAL CONNECTIONS.
RESPONSIBLE FOR ALL STEAM CONNECTIONS THAT MAY BE REQUIRED
HOT WATER TEMPERATURE TO BOOSTER HEATER OR DISH MACHINE MUST BE A MINIMUM OF 140 DEGREES FAHRENHEIT. IF INDICATED TO FS CONSULTANT AND/OR K.E.C., EQUIPMENT OPTIONS MAY BE AVAILABLE TO ALLOW FOR 110 DEGREE F FOR MINIMUM INCOMING WATER TEMPERATURE.
WATER PRESSURE TO KITCHEN EQUIPMENT SHOULD NOT EXCEED 50 PSI IN BOTH HOT AND COLD WATER LINES. WATER PRESSURE TO DISHWASHER AND BOOSTER HEATER SHOULD NOT EXCEED 25 PSI. PRESSURE REDUCING VALVES MUST MEET EQUIPMENT MANUFACTURERS FLOW RECOMMENDATIONS.

MECHANICAL:

RESPONSIBLE FOR ALL LABOR AND MATERIALS REQUIRED TO COMPLETE INSTALLATION OF ROOF CURBS, EXHAUST AND MAKE-UP AIR FANS. TO PROVIDE AND INSTALL ALL NECESSARY SUPPLY AND EXHAUST DUCTWORK MATERIALS, BOTH GREASE AND VAPOR.

1. THE ANSUL FIRE SUPPRESSION SYSTEM INSTALLATION IS INCLUDED WITH THE HOOD SYSTEM PACKAGE (IF PROVIDED BY K.E.C.) AND COMPLETED BY AN AUTHORIZED INSTALLER THAT HAS BEEN SUBCONTRACTED BY THE K.E.C.

RESPONSIBLE FOR ALL DIRECT VENT CONNECTIONS (HOODS, DISHWASHERS, ETC.) TO EQUIPMENT SUPPLY OR EXHAUSTS
RESPONSIBLE FOR ANY SLEEVES, SEALING OR INSULATING OF PENETRATIONS RELATED TO MECHANICAL SCOPE OF WORK
PROVIDE EQUIPMENT RACK (IF REQUIRED) FOR MOUNTING CONDENSING UNITS.

CARPENTRY:

RESPONSIBLE FOR WALL BACKING, BLOCKING OR STRAPPING. PLYWOOD IS RECOMMENDED.
(K.E.C. IS NOT RESPONSIBLE FOR SHELF FAILURE IS BLOCKING IS NOT PROVIDED)
REVIEW PLANS TO INSURE DOOR FRAMED OPENINGS ALIGN WITH WALK-IN COOLER/FREEZER DOORS AND ACCESSORIES ADJACENT TO DOORS; I.E. THERMOMETERS, ALARMS, LIGHT SWITCHES, ETC.

KITCHEN EQUIPMENT CONTRACTOR – (K.E.C.):

RESPONSIBLE FOR INSURING ALL F.F.E. IS DELIVERED TO JOB SITE
RESPONSIBLE FOR INSTALLING THE WALK-IN COOLER AND/OR FREEZER UNITS (G.C TO PROVIDE TRANSIT/LASER LEVEL CONCRETE SLAB)

1. INSTALLATION SLOPED MEMBRANE ROOF CAP (IF APPLICABLE). ALL FLASHING AND COUNTER FLASHING TO STRUCTURE IS BY OTHERS.
2. PROVIDE REMOTE CONDENSERS AND SETTING ONLY (ALL ELECTRICAL AND REFRIGERATION CONNECTIONS BY OTHERS)
3. INSTALLATION OF EVAPORATOR

RESPONSIBLE FOR UNCRATING, SETTING IN PLACE, REMOVAL OF PROTECTIVE PLASTIC, LEVELING, CAULKING AND MAKING ALL EQUIPMENT READY FOR FINAL CONNECTIONS. ANY EQUIPMENT LEVELING THAT WOULD REQUIRE LONGER LEGS, SHIMMING OF CASTERS OR ANY ADDITIONAL SHIMMING FOR SLOPES GREATER THAN PER FOOT MAY REQUIRE ADDITIONAL COST.
ALL FINAL CONNECTIONS BY OTHERS.
RESPONSIBLE FOR INSTALLATION OF ALL FREE STANDING OR WALL MOUNTED SHELVING
RESPONSIBLE FOR INSTALLATION OF RESTRAINT SYSTEMS ON KITCHEN EQUIPMENT
RESPONSIBLE FOR INSTALLATION OF TABLES, CHAIRS, BOOTHS OR MILLWORK COUNTERS IF PROVIDED BY K.E.C.. ANY CORE DRILLING TO BE BY OTHERS.
RESPONSIBLE FOR FIELD WELDS IF REQUIRED ON S/S TABLES OR PRODUCTS
RESPONSIBLE FOR COORDINATING CRITICAL DIMENSIONS FOR EQUIPMENT WITH GC AFTER ALL WALLS (WITH FINAL FINISHES APPLIED) OR OTHER PERMANENT STRUCTURES ARE IN PLACE
ANY ADDITIONAL MODIFICATIONS OR ALTERATIONS TO EQUIPMENT, TABLES OR SHELVING (HOLES DRILLED, ETC.) NECESSARY FOR THE ROUTING OF PLUMBING OR ELECTRICAL LINES WILL BE AN ADDITIONAL EXPENSE
K.E.C. WILL REMOVE ALL TRASH AND DEBRIS ASSOCIATED WITH KITCHEN EQUIPMENT AND PLACE IN DUMPSTER.
DUMPSTER TO BE PROVIDED BY OTHERS.
RESPONSIBLE FOR CONNECTIONS TO HAND SINKS, WHICH ARE HUNG BY K.E.C., INSTALLING AND HANGING WALL MOUNTED HAND SINKS, INCLUDING FAUCETS AND DRAINS.
RESPONSIBLE FOR PROVIDING AND INSTALLING EXHAUST HOODS, STAINLESS STEEL WALL PANELS (BELOW THE HOOD), STAINLESS STEEL CLOSURE PANELS (ABOVE THE HOOD), CORNER GUARDS AND FRAMED OPENING WRAPS.
PROVIDE AND INSTALL ALL REFRIGERATION LINE RUNS AND MAKE ALL NECESSARY CONNECTIONS FOR A COMPLETE SYSTEM INCLUDING START-UP OF EQUIPMENT FOR ICE MACHINES AND WALK-IN COOLER/FREEZERS, ETC.

EXCLUSIONS:

K.E.C. DOES NOT: SET EXHAUST/SUPPLY FANS, INSTALL ROOF CURBS, FURNISH OR RUN DUCT WORK OR PROVIDE CERTIFIED TEST & BALANCE; PERFORM FINAL PLUMBING (TO INCLUDE RUNNING DRAIN LINES), ELECTRICAL, REFRIGERATION OR HVAC FINAL CONNECTIONS. WALL BACKING TO BE REQUIRED AS NEEDED FOR ALL WALL MOUNT ITEMS AND IS TO BE INSTALLED BY GC.

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. FOODSERVICE PLAN DIMENSIONS ARE TO BE VERIFIED BY THE G.C. OR ANY TRADE THAT UTILIZES FS PLAN AND SHOULD NOTIFY K.E.C. OF ANY DISCREPANCIES OR CONFLICTS WITH ARCHITECTURAL DRAWINGS OR DETAILS.
UTILITIES SHOWN ON FS PLAN ARE FOR FOODSERVICE EQUIPMENT ONLY AND ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL PLUMBING OR ELECTRICAL WHICH MAY BE REQUIRED WILL BE DETERMINED BY THE ARCHITECT OR ENGINEER.
ALL FINAL CONNECTIONS TO EQUIPMENT ITEMS AND INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS ARE MADE BY OTHERS.
QUARRY TILE FLOORS ARE TO BE WASHED AND THOROUGHLY RINSED AND DRIED PRIOR TO INSTALLING ANY FOODSERVICE EQUIPMENT. IF AN ACID PRODUCT IS USED AFTER WALK-INS OR ANY STAINLESS STEEL ITEMS ARE INSTALLED, SURFACES MAY BE DAMAGED (I.E. – DISCOLORATION, PITTING, STAINING, ETC.) AND REPLACEMENTS WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INCUR.
COMPLIANCE TO LOCAL HEALTH, PLUMBING, ELECTRICAL, AND VENTILATION CODES ARE THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER. ALL PERMITS EXCEPT FOR THE FIRE SUPPRESSION SYSTEM (IF SUPPLIED BY K.E.C.), ARE THE RESPONSIBILITY OF THE ARCHITECT/CONTRACTOR/OR MECHANICAL ENGINEER.
ANY SPECIAL REQUIREMENTS SUCH AS CRANES, LULLS, FORKLIFTS, CONSTRUCTION DUMPSTER FOR GARBAGE, ETC. ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR/BUYER.

PRELIMINARY/NOT FOR CONSTRUCTION

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FOR REFERENCE ONLY

PROJECT NAME:
Old Glory Restaurant
Columbia, TN

DRAWN BY:	RP
CHECKED BY:	RS
REVISION NO.	DATE:
-	-

PROJ. NO.: 23020
DATE: 12/22/2023

GENERAL NOTES

TITLE:
FS-0.1

SHEET:

SCALE: 1/4"

SCHEDULE OF EQUIPMENT

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS
1	1	REMOTE FREEZER CONDENSER	KOLPAK	CUSTOM	ROOF MOUNTED/AIR COOLED
2	1	REMOTE COOLER CONDENSER	KOLPAK	CUSTOM	ROOF MOUNTED/AIR COOLED
3	2	OIL RECLAMATION SYSTEM	–	–	BY OIL RECLAMATION COMPANY
4	1	COOLER/FREEZER ASSEMBLY	KOLPAK	CUSTOM	W/RECESSED SLAB
5	14	REFRIGERATION SHELVING	METRO	MAX Q	–
6	1	MOBILE PAN RACK	METRO	RF3N	–
7	1	BLOWER COIL +35	KOLPAK	CUSTOM	FOR COOLER
8	1	BLOWER COIL –10	KOLPAK	CUSTOM	FOR FREEZER
9	–	SPARE NUMBER	–	–	–
10	–	SPARE NUMBER	–	–	–
11	1	DUNNAGE RACK	METRO	BOWTIE	–
12	1	DUAL MOP SINK CABINET	ADVANCE	9–OPC–84–300	–
13	4	DRY STORAGE SHELVING	METRO	MAX Q	–
14	2	HAND SINK W/SIDE SPLASHES	ATOSA	MRS–HS–14(W)	–
15	1	PREP TABLE W/SINKS & DRAWERS	FABRICATOR	CUSTOM	WITH UNDERSHELF
16	1	2 TIER WALL SHELF/OVERSHELF	FABRICATOR	CUSTOM	WALL & TABLE MOUNTED
17	1	DISPOSER W/CONTROL	SALVAJOR	200–SA–6–ARSS–LD	–
18	1	2–DOOR HOT BOX	TURBO AIR	M3H47–2	W/CASTERS
19	1	SOILED DISH TABLE W/CONE	FABRICATOR	CUSTOM	–
20	1	RACK SHELF	FABRICATOR	CUSTOM	–
21	4	MOBILE TRASH RECEPTACLE	–	–	BY OWNER/UNITS TO FIT BELOW 32"
22	1	PRE–RINSE UNIT	FISHER	2110–1WB	–
23	1	DISPOSER W/CONTROL	SALVAJOR	200–CA–15–ARSS–LD	W/CONE ADAPTER
24	1	CORNER VENTLESS DISH MACHINE	JACKSON	WWS DYNASTAR HH–E	VENTLESS
25	1	SMART WALL G3–GREY	METRO	CUSTOM	–
26	1	3–COMP SINK/CLEAN DISH TABLE	FABRICATOR	CUSTOM	W/SINK COVERS & STORAGE BELOW
27	1	1 DOOR REFRIGERATOR	TURBO AIR	M3R19–1–N	W/CASTERS
28	1	1 DOOR HOT BOX	TURBO AIR	M3H24–1	W/CASTERS
29	–	SPARE NUMBER	–	–	–
30	–	SPARE NUMBER	–	–	–
31	1	36" DEEP PREP TABLE	FABRICATOR	CUSTOM	WITH UNDERSHELF & TRASH CHUTE
32	1	CEILING MOUNTED CURVED UTENSIL RACK	FABRICATOR	CUSTOM	WITH MOVEABLE HOOKS
33	1	S/S POT/PAN WALL SHELF	FABRICATOR	CUSTOM	–
34	1	EXHAUST HOOD	CADDY	CUSTOM	WITH TEMPERED MAKE UP AIR
35	1	6–BURNER RANGE W/OVEN	ATOSA	AGR–6B–NG	W/CASTERS
36	1	DOUBLE CONVECTION OVEN	ATOSA	ATCO–513B–2	W/CASTERS
37	1	EXHAUST HOOD	CADDY	CUSTOM	WITH TEMPERED MAKE UP AIR
38	1	24" COUNTERTOP GRIDDLE	ATOSA	ATTG–24	WITH THERMOSTATIC CONTROLS
39	–	SPARE NUMBER	–	–	–
40	–	SPARE NUMBER	–	–	–
41	1	48" COUNTERTOP GRIDDLE	ATOSA	ATTG–48	W/THERMOSTATIC CONTROLS
42	1	REFRIGERATED CHEFS STAND	ATOSA	MGF8453GR	W/CASTERS
43	4+1	FRYER/DUMP/HEAT LAMP	VULCAN	4ER50CF	W/CASTERS
44	1	BREADING STATION	BKI	BT–24M	–
45	1	WORK TABLE W/UNDERSHELF	FABRICATOR	CUSTOM	WITH TRASH CHUTE––36" DEEP
46	1	TABLE MOUNTED OVERSHELF	FABRICATOR	CUSTOM	–
47	LOT	S/S CORNER GUARDS	FABRICATOR	CUSTOM	44" TALL
48	3	MICROWAVE OVEN	SHARP	R–21LCFS	UNITS SIT ON WALL SHELF
49	–	SPARE NUMBER	–	–	–
50	–	SPARE NUMBER	–	–	–
51	1	PREP TABLE W/1/2 OPEN BASE–36" DEEP	FABRICATOR	CUSTOM	WITH DRAWER
52	3	MOBILE INGREDIENT BINS	CAMBRO	IBSF27148	W/CASTERS
53	1	ELL–SHAPED SMART WALL G3–GREY	METRO	CUSTOM	WITH DEEP SHELVES FOR # 52

SCHEDULE OF EQUIPMENT

ITEM	QTY.	DESCRIPTION	MANUFACTURER	MODEL NO.	REMARKS
54	1	2 DOOR REFRIGERATOR	TURBO AIR	M3R47–2–N–AL–AR	W/CASTERS
55	1	2 DOOR FREEZER	TURBO AIR	M3F47–2–N	W/CASTERS
56	1	STEAM/PREP TABLE–36" DEEP	FABRICATOR	CUSTOM	WITH UNDERSHELF
57	1	5–WELL HOT FOOD UNIT	ALTO SHAAM	500–HW/D4	–
58	1	WALL MOUNTED CURVED UTENSIL RACK	FABRICATOR	CUSTOM	W/MOVEABLE HOOKS
59	–	SPARE NUMBER	–	–	–
60	–	SPARE NUMBER	–	–	–
61	1	SMART WALL G3–GREY	METRO	CUSTOM	–
62	2	48" TICKET MINDER	ADVANCE	CM–48	MOUNT TO WALL SHELVES
63	1	1 WELL HOT FOOD UNIT	ALTO SHAAM	100–HW/D4	–
64	1	MOBILE SALAD BAR	TURBO AIR	JBT–72	EXISTING/RELOCATED BY OWNER
65	1	ASSEMBLY COUNTER	FABRICATOR	CUSTOM	WITH UNDERSHELF
66	1	BREAD RACK–WOOD SHELVES	–	–	BY GENERAL CONTRACTOR
67	1	PASS–THRU SHELF	FABRICATOR	CUSTOM	–
68	3	PRINTERS	–	–	SUPPLIED BY OWNER
69	–	SPARE NUMBER	–	–	–
70	–	SPARE NUMBER	–	–	–
71	1	WALL SHELF	FABRICATOR	CUSTOM	–
72	1	5–TIER HEATED SHELF	METRO	HS2448	W/HS–PSTRIP4 OUTLET POWER STRIP
73	1	ICE STORAGE BIN	ICE–O–MATIC	B55	–
74	1	CUBE ICE MAKER (500#)	ICE–O–MATIC	GEM0450	AIR COOLED
75	1	WATER FILTER ASSEMBLY	EVERPURE	QTI10–1	–
76	1	1 DOOR REFRIGERATOR	TURBO AIR	M3R19–1–N	W/CASTERS
77	1	CARRY OUT COUNTER	FABRICATOR	CUSTOM	WITH UNDERSHELF
78	1	3–TIER WALL SHELF	FABRICATOR	CUSTOM	–
79	–	SPARE NUMBER	–	–	–
80	–	SPARE NUMBER	–	–	–
81	1	POS SYSTEM	–	–	SUPPLIED BY OWNER
82	2	DROP–IN ICE BIN/SODA DISPENSER	CORNELIUS	2323 UNIVERSAL	–
83	2	AMBIENT CARBONATOR	–	–	SUPPLIED BY VENDOR
84	2	AIR POT COFFEE BREWER	–	–	SUPPLIED BY VENDOR
85	1	UNDERCOUNTER SODA BOX RACK	–	–	SUPPLIED BY VENDOR
86	4	ICED TEA BREWER	–	–	SUPPLIED BY VENDOR
87	1	WALL SHELF	FABRICATOR	CUSTOM	–
88	1	BEVERAGE COUNTER W/HAND SINK	FABRICATOR	CUSTOM	WITH UNDERSHELF
89	–	SPARE NUMBER	–	–	–
90	–	SPARE NUMBER	–	–	–
91	1	FIRE SUPPRESSION SYSTEM	ANSUL/CADDY	R–102	FOR ITEM # 34–EXHAUST HOOD
92	1	FIRE SUPPRESSION SYSTEM	ANSUL/CADDY	R–102	FOR ITEM # 37 EXHAUST HOOD
93	1	SERVER STATION W/HAND SINK	–	–	BY GENERAL CONTRACTOR
94	1	3–TIER ROLL WARMER	WELLS	RW–36	MOUNT IN ITEM # 93
95	2	UNDERCOUNTER REFRIGERATOR	CONTINENTAL	D48N–U	MOUNT IN ITEM # 93

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PROJ. NO.: 23020

DATE: 12/22/2023

EQUIPMENT SCHEDULE

TITLE:

FS-1.0

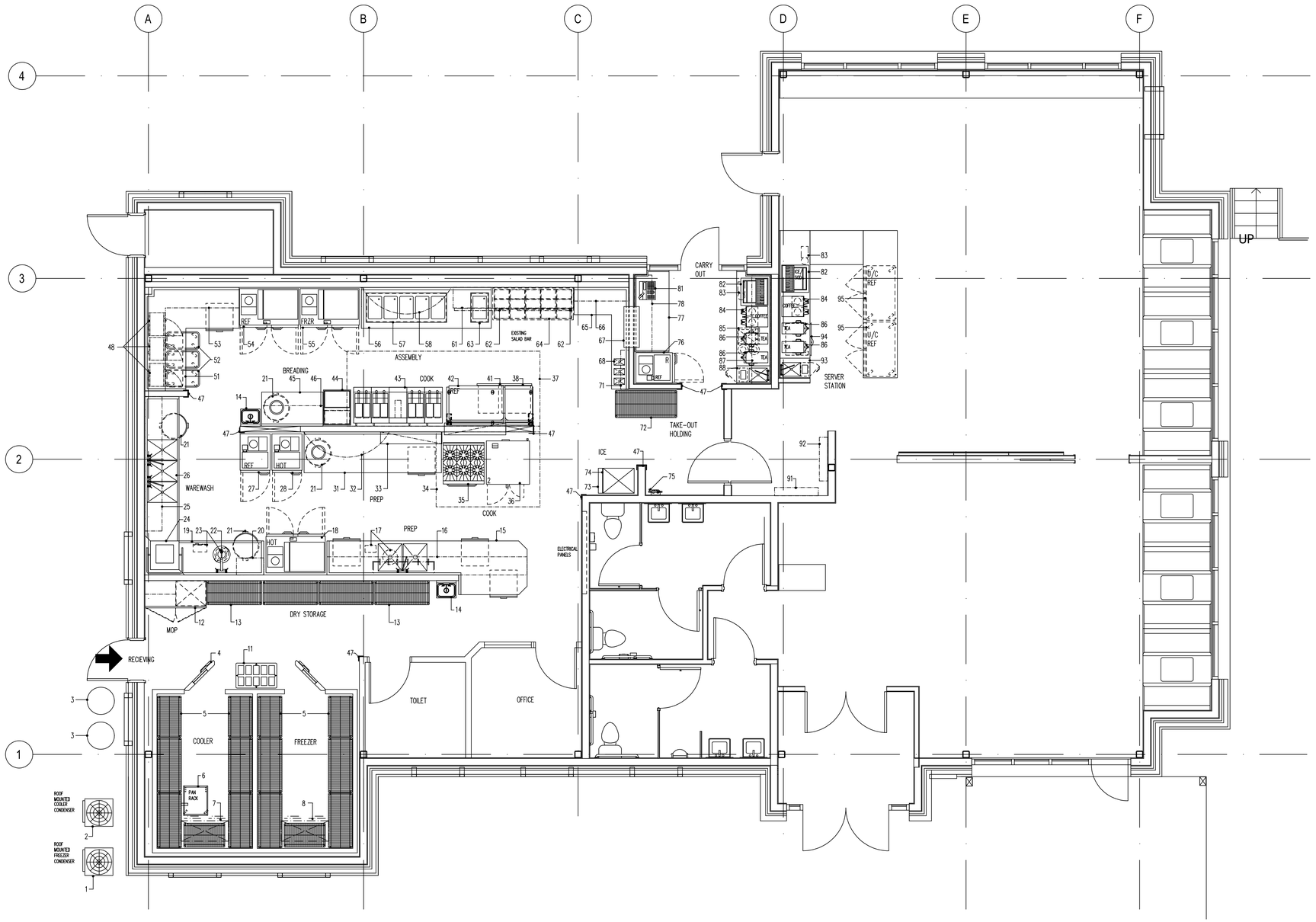
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DATE: 12/22/2023

KITCHEN EQUIPMENT PLAN

TITLE:

FS-1.1

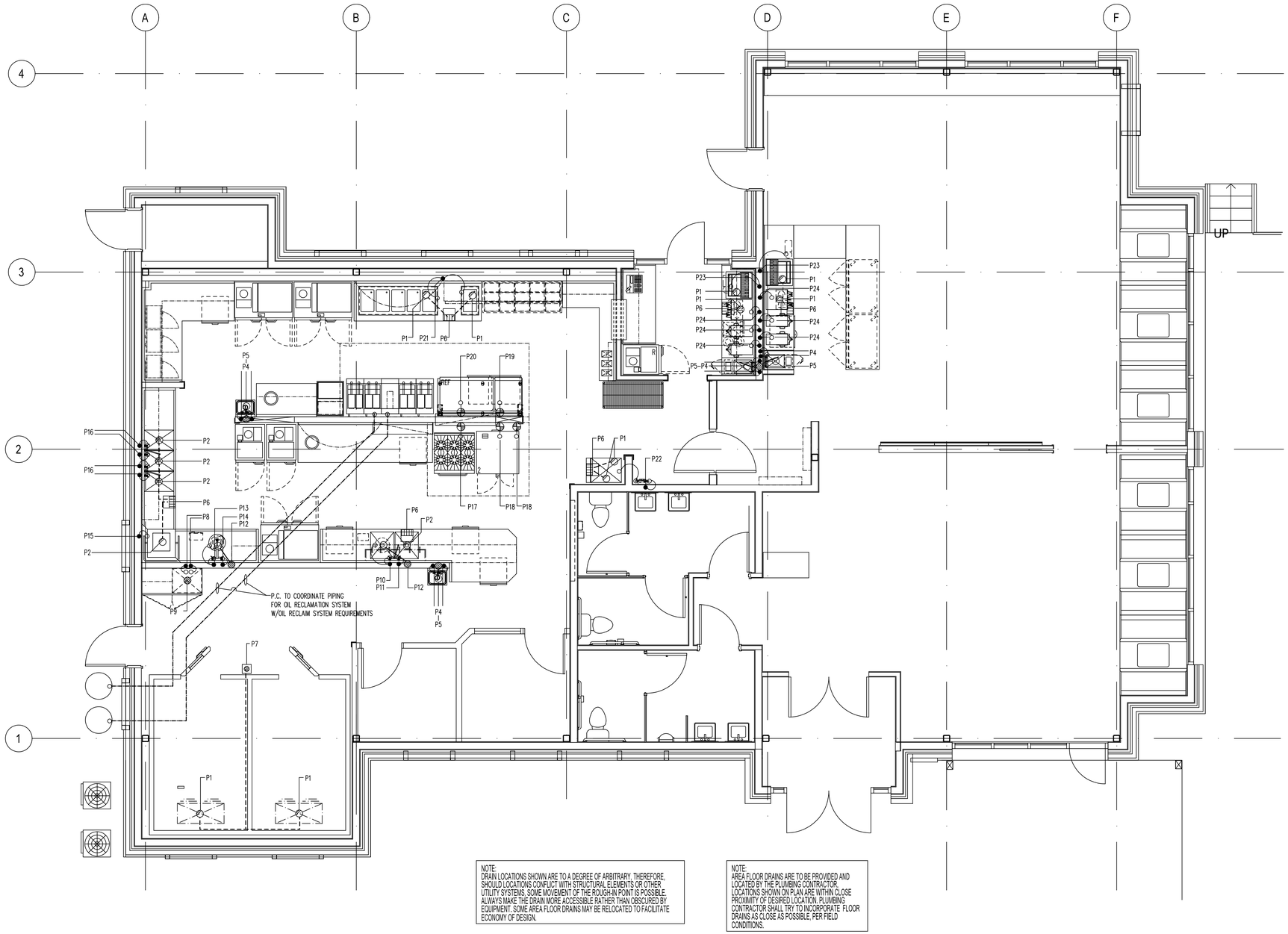
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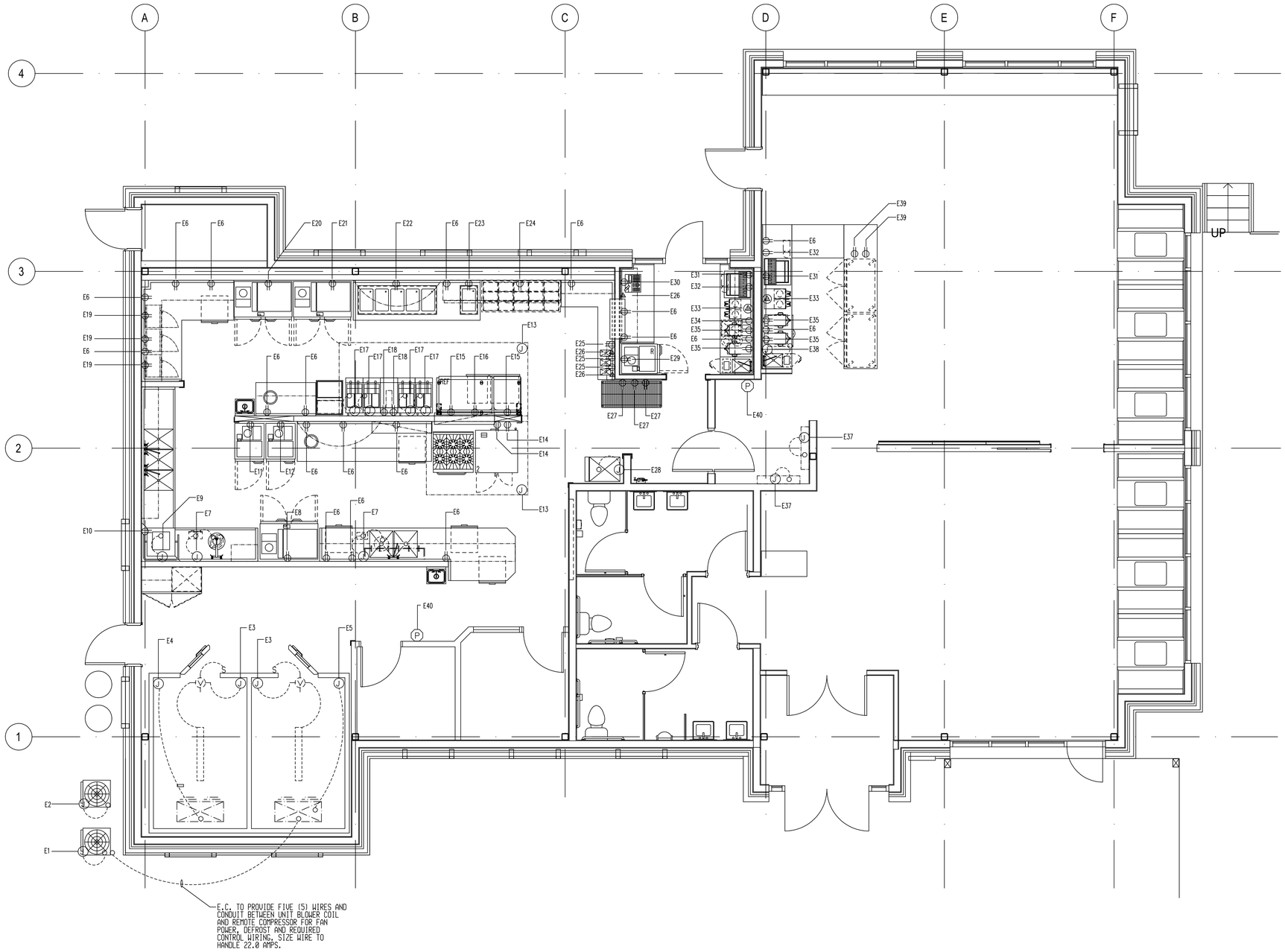
PLUMBING PLAN

TITLE:

FS-1.2

SHEET:

SCALE: 1/4"



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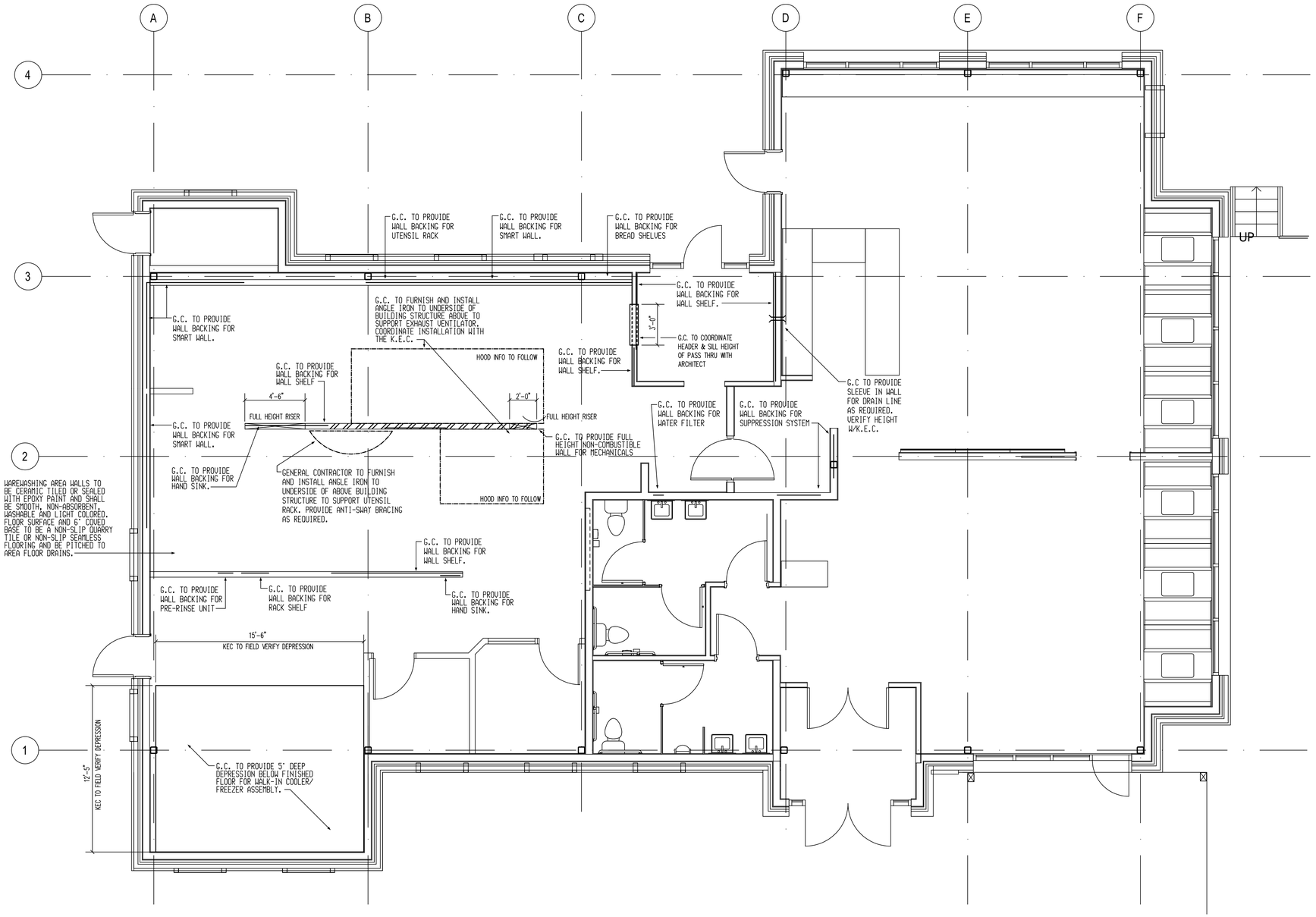
ELECTRICAL PLAN

TITLE:

FS-1.3

SHEET:

SCALE: 1/4"



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PROJ. NO.: 23020

DATE: 12/22/2023

SPECIAL CONDITIONS PLAN

TITLE:

FS-1.4

SHEET:

SCALE: 1/4"

PLUMBING CONNECTIONS SCHEDULE

NUMBER	SIZE	DESCRIPTION	LOCATION	A.F.F.	SERVICE TO	ITEM NO.	REMARKS
P1	1"	INDIRECT WASTE	–	–	AIR GAP DRAIN	–	–
P2	2"	INDIRECT WASTE	–	–	AIR GAP DRAIN	–	–
P3	1/2"	HOT & COLD WATER	WALL	18"	FAUCET	–	–
P4	1/2"	HOT & COLD WATER	WALL	14"	HAND SINK	–	–
P5	1-1/2"	DIRECT WASTE	WALL	20"	HAND SINK	–	PC TO DETERMINE DRAIN HEIGHT
P6	FLOOR SINK		–	–	–	–	–
P7	FLOOR DRAIN		–	–	–	–	–
P8	1/2"	HOT & COLD WATER	WALL	36"	MOP SINK	12	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P9	2"	DIRECT WASTE	FLOOR	STUB	MOP SINK	12	–
P10	3/4"	COLD WATER	WALL	18"	FAUCET/DISPOSER	15/17	P.C. TO CONNECT TO DISPOSER ALSO
P11	1/2"	HOT WATER	WALL	18"	FAUCET	15	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P12	2"	DIRECT WASTE	WALL	14"	DISPOSER	17/23	P.C. TO BY-PASS GREASE TRAP
P13	3/4"	COLD WATER	WALL	18"	PRE-RINSE/DISPOSER	22/23	P.C. TO CONNECT TO DISPOSER ALSO
P14	1/2"	HOT WATER	WALL	18"	PRE-RINSE	22	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P15	1/2"	COLD WATER	WALL	12"	DISH MACHINE	24	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P16	3/4"	COLD WATER	WALL	14"	FAUCET	26	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P17	3/4"	GAS @ 219,000 BTU	WALL	14"	6 BURNER RANGE	35	P.C. TO PROVIDE QUICK DISCONNECT
P18	3/4"	GAS @ 92,000 BTU	WALL	24"/48"	DOUBLE CONVECTION OVEN	36	P.C. TO PROVIDE QUICK DISCONNECT
P19	3/4"	GAS @ 50,000 BTU	WALL	18"	GRIDDLE	38	P.C. TO PROVIDE QUICK DISCONNECT
P20	3/4"	GAS @ 100,000 BTU	WALL	18"	GRIDDLE	41	P.C. TO PROVIDE QUICK DISCONNECT
P21	1/2"	COLD WATER	WALL	18"	FILL FAUCET	57/63	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P22	1/2"	COLD WATER	WALL	76"	ICE MAKER/FILTER	74/75	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P23	1/2"	COLD WATER	WALL	12"	SUPPLY	83	P.C. TO BRANCH TO CONNECTION AS REQUIRED
P24	1/2"	COLD WATER	WALL	50"	SUPPLY	–	P.C. TO BRANCH TO CONNECTION AS REQUIRED

ELECTRICAL CONNECTIONS SCHEDULE

NUMBER	CONNECTION	SERVICE TO	ITEM NO.	HP	KW	AMPS	VOLT	PHASE	LOCATION	A.F.F.	REMARKS
E1	JUNCTION BOX	FREEZER CONDENSER	1	2-1/2	–	VERIFY	208/230	3	ROOF	ROOF	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E2	JUNCTION BOX	COOLER CONDENSER	2	3/4	–	VERIFY	208/230	3	ROOF	ROOF	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E3	JUNCTION BOX	DOOR HEATER,LIGHTS, ALARM	4	–	–	15.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E4	JUNCTION BOX	BLOWER COIL	7	–	–	5.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E5	JUNCTION BOX	HEAT TAPE	8	–	–	5.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E6	DUPLEX	CONVENIENCE OUTLET	–	–	–	15.0	120	1	WALL	50"	–
E7	JUNCTION BOX	DISPOSER W/CONTROL	17/23	2.0	–	6.6	208	3	WALL	14"	E.C. TO WIRE THRU SWITCH & SOLENOID
E8	DUPLEX	2 DOOR HOT BOX	18	–	1.55	13.5	120	1	WALL	76"	–
E9	JUNCTION BOX	DISH MACHINE	24	–	–	49.3	208	3	WALL	14"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E10	DUPLEX	DISH MACHINE	24	–	–	10.0	120	1	WALL	16"	–
E11	DUPLEX	REFRIGERATOR	27	1/4	–	2.5	120	1	WALL	76"	–
E12	DUPLEX	HOT BOX	28	–	0.95	8.5	120	1	WALL	76"	–
E13	JUNCTION BOX	EXHAUST HOOD	34/37	–	–	15.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E14	DUPLEX	DOUBLE CONVECTION OVEN	36	–	–	8.5	120	1	WALL	24"	–
E15	DUPLEX	CONVENIENCE OUTLET	–	–	–	10.0	120	1	WALL	18"	–
E16	DUPLEX	REFRIGERATED EQUIPMENT STAND	42	1.7	–	2.3	120	1	WALL	18"	–
E17	JUNCTION BOX	FRYER	43	–	17.0	52.0	208	3	WALL	18"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E18	DUPLEX	HEAT LAMP/CONTROLS	43	–	–	15.0	120	1	WALL	18"	–
E19	DUPLEX	MICROWAVE OVEN	48	–	1.0	14.0	120	1	WALL	50"	–
E20	DUPLEX	REFRIGERATOR	54	1/3	–	2.8	120	1	WALL	76"	–
E21	DUPLEX	FREEZER	55	2/3	–	6.3	120	1	WALL	76"	–
E22	DUPLEX	5-WELL HOT FOOD UNIT	57	–	3.0	25.0	120	1	WALL	18"	–
E23	DUPLEX	1-WELL HOT FOOD UNIT	63	–	0.6	5.0	120	1	WALL	18"	–
E24	DUPLEX	SALAD BAR-EXISTING	64	1/2	–	6.1	120	1	WALL	18"	–
E25	DUPLEX	PRINTER-BY OWNER	68	–	–	10.0	120	1	WALL	50"	–
E26	–	DATA CONNECTION PORTS	–	–	–	–	–	–	WALL	50"	–
E27	DUPLEX	HEATED SHELVES (5)	72	–	–	15.0	120	1	WALL	40"	–
E28	JUNCTION BOX	CUBE ICE MAKER	74	–	–	16.0	120	1	WALL	70"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E29	DUPLEX	REFRIGERATOR	76	1/4	–	2.5	120	1	WALL	76"	–
E30	DUPLEX	POS SYSTEM	81	–	–	15.0	120	1	WALL	50"	E.C. TO COORDINATE WITH OWNER PROVIDED EQUIPMENT
E31	DUPLEX	ICE/SODA DISPENSER	82	–	–	1.0	120	1	WALL	18"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E32	DUPLEX	AMBIENT CARBONATOR	83	–	–	10.0	120	1	WALL	18"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E33	SINGLE	COFFEE BREWER	84	–	–	30.0	120/208	1	WALL	50"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E34	DUPLEX	BAG-IN-BOX RACK	85	–	–	10.0	120	1	WALL	18"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E35	DUPLEX	ICED TEA BREWER	86	–	–	15.0	120	1	WALL	50"	E.C. TO COORDINATE WITH VENDOR PROVIDED EQUIPMENT
E36	–	SPARE NUMBER	–	–	–	–	–	–	–	–	–
E37	JUNCTION BOX	FIRE SUPPRESSION SYSTEM	91/92	–	–	15.0	120	1	FROM ABOVE	CEILING	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E38	JUNCTION BOX	ROLL WARMER	94	–	1.35	11.3	120	1	WALL	18"	E.C. TO BRANCH TO CONNECTION AS REQUIRED
E39	DUPLEX	UNDERCOUNTER REFRIGERATOR	95	–	–	2.46	120	1	FLOOR	STUB	–
E40	EMPTY OCTAGON BOX FOR REMOTE PULL STATIONS LOCATED AT POINTS OF EGRESS IN BUILDING								WALL	48"	PER LOCAL CODES, RULES & REGULATIONS

VENTILATION CONNECTIONS SCHEDULE

ITEM	QTY	CONNECTION	SIZE	CFM	SP	REMARKS
V01	–	EXHAUST	10" X 19"	2363 EA	0.75"	–
V02	–	–	–	–	–	–
V03	–	–	–	–	–	–
V04	–	–	–	–	–	–

HOOD INFO TO FOLLOW

FOODSERVICE DESIGN
DRS
INT. DOOR DESIGN
750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
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FOR REFERENCE ONLY

PROJECT NAME:
Old Glory Restaurant
Columbia, TN

DRAWN BY:	RP
CHECKED BY:	RS

REVISION NO.	DATE:
-	-

PROJ. NO.: 23020

DATE: 12/22/2023

MECHANICAL SCHEDULE

TITLE:

FS-1.5

SHEET:

SCALE: 1/4"

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION, PROVIDED BY DYKES RESTAURANT SUPPLY, INC. TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL, AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

PRELIMINARY/NOT FOR CONSTRUCTION

PLUMBING NOTES

(IF APPLICABLE)

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR AND ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

UTILITIES SHOWN ARE FOR ITEMS OF FOODSERVICE EQUIPMENT ONLY AND ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL PLUMBING UTILITIES WHICH MAY BE REQUIRED SHALL BE DETERMINED BY THE ARCHITECT/ ENGINEER.

PLUMBING PLAN SHOWS OUTLET AND CONNECTION LOCATIONS WITH CAPACITIES. FOR ACTUAL ROUGH-IN LOCATIONS, REFER TO DIMENSIONED DRAWINGS FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR. (K.E.C.)

FINAL PLUMBING CONNECTIONS INCLUDING MOUNTING OF DRAINS, FAUCETS AND PIPING FROM POINT-OF-CONNECTION ON EQUIPMENT TO BUILDING PLUMBING SYSTEM AND INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

ALL PLUMBING MATERIALS, INCLUDING PIPE, TRAPS, STOPS, VALVES, FITTINGS, SHUT-OFFS, WATER HAMMER ARRESTORS, PRESSURE REDUCING VALVES, GAUGES, UNIONS AND INSULATION SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

PLUMBING CONTRACTOR SHALL INSTALL ALL FAUCETS AND PLUMBING ACCESSORIES PROVIDED LOOSE BY THE K.E.C.

UTILITIES (GAS, WATER, STEAM) SHALL BE CONCEALED IN WALLS AND STUBBED-OUT OF FINISHED WALLS 6". PIPING STUBBED OUT OF THE FLOOR OR WALL AND RUN EXPOSED SHALL NOT BE ACCEPTABLE AND IS IN VIOLATION OF HEALTH DEPARTMENT CODES. ALL PENETRATIONS SHALL BE SEALED IN WATER TIGHT.

ALL EXPOSED PIPING SHALL BE CHROME PLATED TO SATISFY LOCAL HEALTH DEPARTMENT.

PLUMBING COMPONENTS, PROVIDED BY PLUMBING CONTRACTOR INCLUDING VALVES, TRAPS, SHUT-OFFS, GAUGES AND CONNECTIONS SHALL NOT INTERFERE IN ANY WAY WITH THE OPERATION OF ITEMS OF FOODSERVICE EQUIPMENT.

WATER PRESSURE IN EQUIPMENT AREA SHOULD NOT EXCEED 50 PSI IN BOTH HOT AND COLD WATER SUPPLY LINES. THE WATER PRESSURE TO DISHWASHERS, GLASSWASHERS AND BOOSTER HEATERS SHOULD NOT EXCEED 25 PSI. PRESSURE REDUCING VALVES PROVIDED BY PLUMBING CONTRACTOR MUST MEET EQUIPMENT MANUFACTURER'S FLOW RECOMMENDATIONS.

FLOOR SINKS SHALL BE INSTALLED FLUSH WITH FINISHED FLOOR WITH OR WITHOUT GRATE COVER AS INDICATED ON PLAN.

ALL LINES SHALL BE FLUSHED FREE OF FOREIGN MATTER AND LINE STRAINERS AND FAUCET AERATORS CLEANED PRIOR TO MAKE-UP OF FINAL UTILITY CONNECTIONS BY PLUMBING CONTRACTOR.

GREASE TRAPS SHALL BE PROVIDED BY PLUMBING CONTRACTOR AND SHALL BE RECESS-MOUNTED, FLUSH WITH TOP OF FINISHED FLOOR. GREASE TRAPS SHALL NOT BE LOCATED BENEATH ANY ITEM OF FOODSERVICE EQUIPMENT AND THE REMOVAL OF COVER SHALL NOT INTERFERE WITH THE OPERATION OF ANY FOODSERVICE EQUIPMENT ITEMS.

ALL DRAIN LINES FOR DISPOSERS SHALL BY-PASS GREASE TRAPS.

HOT WATER TEMPERATURE TO BOOSTER HEATER, DISHMACHINE AND GLASSWASHER MUST BE 140°FAHRENHEIT. HOT WATER LINE FROM BOOSTER HEATER TO GLASSWASHER/ DISHWASHER SHALL BE PROVIDED WITH WATER HAMMER ARRESTOR (ASSE-1010 STD) AT CONNECTION TO DISHWASHER AND SHALL BE PROVIDED BY PLUMBING CONTRACTOR.

DRAIN LINES FROM EVAPORATOR COILS (QUICK-FALL TYPE) SHALL BE TRAPPED OUTSIDE OF WALK-IN FREEZER/COOLER ASSEMBLIES AND EXTENDED OVER BUILDING DRAIN BY PLUMBING CONTRACTOR. ALL PENETRATIONS IN WALK-IN FREEZER/COOLER ASSEMBLIES SHALL BE MADE BY THE K.E.C. REFER TO BLOWER COIL DETAIL.

TRENCH-TYPE DRAIN TROUGH SHALL BE FURNISHED BY THE K.E.C. TO THE GENERAL FOR INSTALLATION. PLUMBING CONTRACTOR SHALL PROVIDE DRAIN CONNECTIONS AS SHOWN ON DETAILS, IF PROVIDED.

GAS MAIN SHALL BE PROVIDED WITH A READILY ACCESSIBLE MANUAL SHUT-OFF VALVE BY PLUMBING CONTRACTOR. LOCATION OF VALVE TO BE COORDINATED WITH FOOD-SERVICE CONSULTANT. A LOOPED GAS SERVICE IS RECOMMENDED TO PROVIDE FOR BALANCED FUEL DISTRIBUTION. SIZE OF GAS LINE TO BE DETERMINED BY ARCHITECT/ENGINEER. SEE PLUMBING SCHEDULE FOR BTU/HOUR REQUIREMENTS.

PLUMBING CONTRACTOR SHALL PROVIDE MANUAL GAS SHUT-OFF DEVICES AT EACH INDIVIDUAL PIECE OF EQUIPMENT NOT BATTERED TOGETHER. LOCATION OF FUEL SHUT-OFF VALVES TO BE COORDINATED WITH FOODSERVICE CONSULTANT. GAS PRESSURE REDUCING VALVES REQUIRED FOR EACH INDIVIDUAL PIECE OF COOKING EQUIPMENT SHALL BE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR FOR INSTALLATION BY PLUMBING CONTRACTOR.

FOR VENTILATION FIRE SUPRESSION SYSTEM WITH GAS HEATED COOKING EQUIPMENT, PLUMBING CONTRACTOR SHALL INSTALL MECHANICAL FUEL SHUT-OFF VALVE FURNISHED BY K.E.C. IN GAS LINES SERVING COOKING EQUIPMENT.
LOCATION OF FUEL SHUT-OFF VALVES TO BE COORDINATED WITH FOODSERVICE CONSULTANT. K.E.C. SHALL PROVIDE REMOTE MANUAL PULL STATION AND MICRO-SWITCH GAS SHUT-OFF VALVE SHALL BE MECHANICALLY ACTIVATED IN CASE OF FIRE BY MECHANICAL/PNEUMATIC MECHANISM. ANY AND ALL ELECTRICAL INTERCONNECTING REQUIRED FOR FAN CONTROL AND/OR ALARM SYSTEMS SHALL BE BY ELECTRICAL CONTRACTOR

PLUMBING SYMBOLS

COLD WATER	CW	●
HOT WATER	HW	●
COOLING TOWER WATER	CTW	●
COOLING TOWER WATER RETURN	CTWR	●
WASTE	W	◎
INDIRECT WASTE	IW	◯
HUB DRAIN/AIR GAP DRAIN	HD/AGD	○
FLOOR DRAIN	FD	⊚
FUNNEL-TYPE FLOOR DRAIN	FFD	⊚
FLOOR SINK -1/2 GRATE	FS	▥
STEAM SUPPLY	SS	◎
CONDENSATE RETURN	CR	◎
GAS SUPPLY	G	⊕
POINT OF CONNECTION ON EQUIPMENT		◠

ELECTRICAL SYMBOLS

SINGLE RECEPTACLE, NEMA 5-20R	SR	⏚
DUPLEX RECEPTACLE, NEMA 5-20R	DR	⏚
SINGLE RECEPTACLE, 208 OR 480	SR	△
FLOOR RECEPTACLE	FR	◉
JUNCTION BOX	JB	J
DROP CORD OR CONDUIT	DC	D
CONDUIT STUB	C	●
SWITCH	S	S
INCANDESCENT LIGHT		✳
FLUORESCENT LIGHT		▭
EQUIPMENT TERMINAL PANEL		▨
BUILDING POWER PANEL		▬
POINT OF CONNECTION ON EQUIPMENT		◠
COMMUNICATIONS OUTLET		△
VAPOR-PROOF LIGHTS		V
PULL BOX-FIRE SUPPRESSION		P

SPECIAL CONDITIONS SYMBOLS

SLEEVE ○

SLAB DEPRESSION ▨

BLOCKOUT □

RAISED CURB ▦

WALL OPENING ▩

LOW PARTITION ▥

WALL BACKING ——

ELECTRICAL NOTES

(IF APPLICABLE)

ELECTRICAL SYSTEM IS DESIGNED FOR 120/208/240 VOLT, 3 PHASE, 60 HERTZ SYSTEM.

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR FROM CENTERLINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) AND ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

UTILITIES SHOWN ARE FOR ITEMS FOR FOOD SERVICE EQUIPMENT ONLY AND ARE THE MINIMUM REQUIRED TO OPERATE EQUIPMENT. LOCATIONS OF ANY ADDITIONAL ELECTRICAL UTILITIES (CONVENIENCE RECEPTACLES, TELEPHONE JACKS, INTERCOM JACKS, ETC.) WHICH MAY BE REQUIRED SHALL BE DETERMINED BY THE ARCHITECT/ ENGINEER.

ELECTRICAL PLAN SHOWS OUTLETS AND CONNECTION WITH CAPACITIES. FOR ACTUAL ROUGH-IN LOCATIONS, REFER TO DIMENSIONED DRAWINGS PROVIDED BY THE K.E.C.

FINAL ELECTRICAL CONNECTIONS INCLUDING WIRING FROM POINT-OF CONNECTION ON EQUIPMENT TO BUILDING ELECTRICAL SYSTEM AND INTERCONNECTIONS BETWEEN EQUIPMENT COMPONENTS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

ALL ELECTRICAL MATERIALS, INCLUDING WIRE, CONDUIT, OVERLOAD PROTECTION, MAIN SWITCHES, SAFETY CUT-OUTS, FUSE BOXES, SHUNT-STRIP BREAKERS, DISCONNECT SWITCHES AND CONTROLS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.

UTILITIES SHALL BE CONCEALED IN WALLS AND STUBBED-OUT OF WALLS. WIRING STUBBED OUT OF FLOOR AND RUN EXPOSED ON THE FACE OF THE WALL SHALL NOT BE ACCEPTABLE.

ELECTRICAL COMPONENTS, INCLUDING MAIN SWITCHES, FUSE BOXES, TERMINAL PANELS, DISCONNECT SWITCHES CONDUIT AND CONNECTIONS SHALL NOT INTERFERE IN ANY WAY WITH THE OPERATION OF ITEMS OF FOODSERVICE EQUIPMENT.

AMPERAGES INDICATED ARE TOTAL FOR EACH UNIT AND NOT IN ADDITION TO ANY HP AND/OR KW RATINGS SHOWN.

WHERE CALLED FOR, THE K.E.C. SHALL FURNISH CORDS AND PLUGS FOR INSTALLATION BY ELECTRICAL CONTRACTOR. NEMA NUMBERS SHOWN INDICATE THE CAP CONFIGURATION TO BE PROVIDED FOR THE EQUIPMENT. ANY DIRECT CONNECTIONS SHALL BE PROVIDED BT THE E.C.

ALL LIGHT FIXTURES IN FOOD STORAGE, PREPARATION, SERVICE OR DISPLAY FACILITIES, AS WELL AS UTENSIL CLEANING AND STORAGE AREAS SHALL HAVE SHIELDING OVER BULBS.

KITCHEN EQUIPMENT CONTRACTOR SHALL PROVIDE WALK-IN FREEZER/COOLER ASSEMBLIES COMPLETE WITH OUTLET BOXES, DOOR HEATERS AND ALL SYSTEM COMPONENTS PRE-WIRED TO A SINGLE POINT OF CONNECTION. ELECTRICAL CONTRACTOR SHALL PROVIDE INTERCONNECTING CONDUIT AND WIRING AND MAKE FINAL CONNECTIONS.

ELECTRICAL CONTRACTOR SHALL PROVIDE ELECTRICAL POWER TO AND INTERCONNECTION BETWEEN EVAPORATOR COIL, TIME CLOCK, TEMPERATURE CONTROL DEVICE, AND CONDENSING UNITS, FOR WALK-IN FREEZER/COOLER ASSEMBLIES FURNISHED BY THE K.E.C.

DRAIN LINE FROM FREEZER COIL SHALL BE WRAPPED WITH HEAT CABLE, TAPED AND INSULATED TO PREVENT FREEZING OF CONDENSATE IN THE LINE, BY ELECTRICAL CONTRACTOR.

WALK-IN FREEZER/COOLER VAPOR-PROOF LIGHT FIXTURES ARE SHIPPED LOOSE BY K.E.C. FOR FIELD INSTALLATION AND INTERWIRING AS REQUIRED BY ELECTRICAL CONTRACTOR.

ALL PENETRATIONS INTO WALK-IN FREEZER/COOLERS SHALLL BE MADE BY THE K.E.C.

ELECTRICAL CONTRACTOR SHALL SEAL ALL PENETRATIONS MADE INTO WALK-IN FREEZER/ COOLER ASSEMBLIES, REFRIGERATORS AND EXHAUST VENTILATORS WITH METHODS AND MATERIALS AS APPROVED BY EQUIPMENT MANUFACTURER.

THE K.E.C. SHALL PROVIDE EXHAUST VENTILATOR ASSEMBLIES COMPLETE WITH CONTROL PANEL, WASH-DOWN PANEL, LIGHTS, AND FIRE SUPPRESSION SYSTEM. E.C. SHALL PROVIDE ALL POWER TO AND INTERCONNECTIONS BETWEEN VENTILATOR, CONTROL PANEL, WASH-DOWN PANEL LIGHTS, EXHAUST AND SUPPLY FAN, MAGNETIC STARTERS AND ALL MISCELLANEOUS COMPONENTS. SEE PLAN AND VENTILATOR SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

FOR VENTILATOR FIRE SUPPRESSION SYSTEM WITH ELECTRICALLY HEATED COOKING EQUIPMENT, K.E.C. SHALL PROVIDE REMOTE MANUAL PULL STATION AND MICRO SWITCH. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ELECTRICAL CONTACTORS AND/OR SHUNT TRIP BREAKERS AND ALL INTERCONNECTION CONDUIT & WIRING FOR SHUT-OFF OF ALL ELECTRICALLY HEATED COOKING EQUIPMENT. CONTACTOR FOR SHUNT TRIP RELAYS SHALL ACTIVATED IN CASE OF FIRE BY MICRO-SWITCH AS FURNISHED BY K.E.C.

FIRE PROTECTION SYSTEM REMOTE CABLE PULL BOX SHALL BE RECESS MOUNTED OCTAGONAL J-BOX WITH SCREW HOLES AT 2- AND 8'-0" CLOCK WITH 1/2" EMT CONDUIT OUT OF TOP, CONCEALED IN WALL TO 6" ABOVE FINISHED CEILING, BY ELECTRICAL CONTRACTOR.

ELECTRICAL RECEPTACLES SHALL BE INSTALLED WITH THEIR LONG DIMENSION RUN HORIZONTALLY.

ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND POWER AND CONTROL WIRING BETWEEN REMOTE LOW TEMPERATURE EVAPORATORS AND REMOTE COMPRESSOR RACK. REFER TO DRAWINGS FOR DETAILS.

SPECIAL CONDITIONS NOTES

(IF APPLICABLE)

ALL DIMENSIONS SHOWN ARE FROM FINISHED WALLS, FLOORS, CEILINGS AND/OR FROM CENTER LINE OF STRUCTURAL COLUMNS. DIMENSIONS ARE TO BE VERIFIED BY THE KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) AND ALL TRADES UTILIZING THESE PLANS.

ANY "HOLD" DIMENSIONS ARE CLEAR "FINISH-TO-FINISH" UNLESS OTHERWISE NOTED.

REFER TO ARCHITECTURAL/ENGINEERING DRAWINGS FOR ACTUAL CONSTRUCTION DIMENSIONS, LOCATION, THICKNESS AND FINISH OF PARTITIONS, FURRING AND DOOR SIZES AND LOCATIONS NOT INDICATED ON THE SPECIAL CONDITIONS PLAN.

CEILINGS SHALL BE SMOOTH, NON-ABSORBENT, WASHABLE AND LIGHT COLORED, BY GENERAL CONTRACTOR.

GENERAL CONTRACTOR TO FURNISH AND INSTALL ANGLE IRON TO UNDERSIDE OF BUILDING STRUCTURE ABOVE TO SUPPORT EXHAUST VENTILATOR. COORDINATE INSTALLATION WITH THE K.E.C.

DEPRESSIONS FOR WALK-IN FREEZER/COOLER ASSEMBLIES AND/OR FLOOR TROUGHS SHALL BE SMOOTH AND TRANSIT-LEVEL. REFER TO PLAN FOR SIZES, DEPTHS AND ADDITIONAL INFORMATION.

CONCRETE AND MASONRY BASES AND CURBS SHALL BE SMOOTH AND TRANSIT-LEVEL. ALL EXPOSED SURFACES SHALL BE FINISHED THE SAME AS FINISHED FLOOR. REFER TO PLAN FOR SIZES AND ADDITIONAL INFORMATION.

ALL BACKING MATERIALS SUITABLE FOR WALL-MOUNTED EQUIPMENT SHALL BE PROVIDED BY GENERAL CONTRACTOR AS DETAILED.

ALL STRUCTURE SUPPORT MATERIALS AND BRACING SUITABLE FOR CEILING HUNG EQUIPMENT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. COORDINATE INSTALLATION WITH THE K.E.C.

ALL RACKS AND/OR PLATFORMS FOR ROOF-MOUNTED EQUIPMENT AND COMPRESSOR RACKS SHALL BE PROVIDED BY GENERAL CONTRACTOR.

ALL WALL, FLOOR AND/OR ROOF SLEEVES SHALL BE PROVIDED BY GENERAL CONTRACTOR.

K.E.C. SHALL UNDER NO CONDITIONS SET-IN-PLACE OR INSTALL ANY PIECE OF EQUIPMENT PRIOR TO TILE FLOORS BEING ACID WASHED AND RINSED.

WHERE QUARRY TILE FLOORS ARE EXTENDED INTO WALK-IN FREEZER/COOLER ASSEMBLIES, GENERAL CONTRACTOR SHALL PROTECT ALL EXPOSED METAL SURFACES AND REMOVE DOORS PRIOR TO ACID WASHING OF FLOORS AND PROVIDE POWER VENTILATION TO REMOVE FUMES.

GENERAL CONTRACTOR SHALL PROVIDE WALL OPENINGS TO ACCOMODATE ITEMS OF PASS-THRU AND CONVEYOR EQUIPMENT AS DETAILED ON PLAN. REFER TO PLAN FOR ADDITIONAL INFORMATION.

16 GAUGE STAINLESS STEEL CORNER GUARDS SHALL BE FURNISHED AND INSTALLED BY K.E.C. AS PER PLANS AND DETAILS.

VENTILIATION NOTES

(IF APPLICABLE)

VENTILTATION DUCTWORK, EXHAUST FANS, SUPPLY FANS, INTERLOCKS, MOTOR STARTERS, DISCONNECT SWITCHES, FAN CONTROL, SWITCHES, INTERCONNECTING WIRING, CONDUIT, & FINAL CONNECTION (TO & FROM) VENTILATORS &/OR DISHWASHER CONDENSATE HOODS SHALL BE BY H.V.A.C./MECHANICAL CONTRACTOR.

DISHWASHER CONDENSATE DUCT & EXHAUST VENTILATOR SUPPLY & EXHAUST, DUCT SIZES & ALL OTHER VENTILATION SPECIFICATIONS FROM THE DUCT COLLAR ON SHALL BE DETERMINED BY ARCHITECT/ENGINEER & ALL NECESSARY MATERIAL & LABOR PROVIDED BY H.V.A.C./MECHANICAL CONTRACTOR.

VENTILIATION CFM, STATIC PRESSURE & DUCT SIZES INDICATED ON THESE PLANS ARE THE SPECIFIED EQUIPMENT MINIMUM REQUIREMENTS.

THE FOLLOWING MINIMUM GENERAL FOOD SERVICE VENTILATION REQUIREMENTS ARE RECOMMENDED:

A. COOKING PREPARATION, POTWASHING & DISHWASHING AREA: 45-60 AIR CHANGES PER HOUR.

B. STORAGE AREAS: 2-3 AIR CHANGES PER HOUR, 70° F MAXIMUM AMBIENT TEMPERATURE.

C. OFFICE AREAS: 4 AIR CHANGES PER HOUR.

D. AIR-COOLED REFRIGERATION CONDENSING UNITS, 1000 CFM PER HORSEPOWER SUPPLY & EXHAUST, 90° F MAXIMUM AMBIENT TEMPERATURE. ALL AREAS MUST BE VENTILATED AS REQUIRED BY APPLICABLE GOVERNING CODES.

MAKE-UP ARE SYSTEM SHALL BE DESIGNED TO PROVIDE 10% - 20% NEGATIVE AIR PRESSURE IN KITCHEN AREAS TO CONTAIN SMOKE AND ODORS.

ADEQUATE VENTILATION (24 HOURS) IS REQUIRED FOR SELF-CONTAINED REFRIGERATION UNITS IN ENCLOSED AREAS, SUCH AS, ICE MAKERS, WALK-IN COOLER ASSEMBLIES, & BEVERAGE SYSTEMS, TO PREVENT OVERHEATING & COMPRESSOR FAILURE.

REFRIGERATION NOTES

(IF APPLICABLE)

ALL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND JURISDICTIONAL AUTHORITIES.

SLEEVES AND CONDUIT RUNS SHOWN ON THIS PLAN ARE SCHEMATIC ONLY AND FURNISHED AS A GUIDE. IT WILL BE NECESSARY TO COPE WITH FIELD AND CONSTRUCTION CONDITIONS. CONDUIT SYSTEM SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SHALL BE ROUTED TO PROVIDE THE SHORTEST RUNS POSSIBLE.

ALL REFRIGERATOR COPPER SHALL BE REFRIGERATION GRADE TUBING ONLY. (ALL REFRIGERATION DRAIN PIPING SHALL BE GRADE ACR OR TYPE "L" SEAMLESS). JOINTS FOR ALL HARD COPPER AND SOFT COPPER TO BE SWEAT-TYPE FITTINGS. FOR STEEL TO COPPER CONNECTION USE SILVER SOLDER; COPPER TO COPPER USE SILVER BEARING ALLOY SOLDER SUCH AS EASY-FLO 45.

SUCTION LINES SHALL BE INSULATED WITH APPROVED INSULATING MATERIAL. LIQUID AND SUCTION LINES SHALL NOT BE CLAMPED OR SOLDERED TOGETHER DUE TO EXPANSION.

MECHANICAL BENDS IN TUBING SHALL NOT BE ACCEPTABLE.

ALL SUCTION LINES WITH A VERTICAL RISE OF EIGHT FEET OR MORE SHALL HAVE P-TRAP FOR OIL RETURN.

REFRIGERATION LINES TO WALK-IN FREEZER/COOLER ASSEMBLIES SHALL BE RUN ABOVE CEILINGS AND DROPPED AT POINT OF CONNECTION TO EVAPORATOR COIL.

KITCHEN EQUIPMENT CONTRACTOR (K.E.C.) SHALL PROVIDE AND INSTALL ALL REFRIGERATION SUCTION AND LIQUID LINES FROM REMOTE CONDENSING UNITS TO UNIT EVAPORATORS, LINE HANGERS, ESCUTCHEON PLATES, VALVES, SIGHT GLASSES, PRESSURE CONTROLS, FILTER DRYERS, AND HAND VALVES.

K.E.C. SHALL PROVIDE FACTORY MOUNTED EXPANSION VALVES AND TEMPERATURE CONTROLS FOR EACH SYSTEM AS SPECIFIED.

AFTER REFRIGERANT CONNECTIONS HAVE BEEN COMPLETED, THE BALANCE OF THE SYSTEM SHALL BE LEAK TESTED WITH ALL VALVES OPEN.

ALL COMPLETED REFRIGERATION SYSTEMS MUST BE EVACUATED TO 300 MICRONS OR LESS WITH VACUUM PUMP.

REFRIGERATION SYMBOLS

COMPRESSOR OR COIL ▨

REFRIGERATION LINE AND CONNECTION ○----

REFRIGERATION LINE SLEEVE WALL OR CEILING ○

VENTILATION SYMBOLS

EXHAUST DUCT	▤
SUPPLY DUCT	▤
STATIC PRESSURE	SP
CUBIC FEET/MINUTE	CFM

FOODSERVICE DESIGN
DRS
EST. 2009
DESIGN

750 OLD HICKORY BLVD.
SUITE 140
Brentwood,TN 37027
PHONE
615-762-3320
FAX
615-309-8665
EMAIL
rick@drsdesign.solutions

www.drsdesign.solutions

THIS SET OF DOCUMENTS AND THE DESIGN SHOWN HEREIN ARE THE PROPERTY OF DRS FOODSERVICE DESIGN INC. REPRODUCTION VIOLATION OR ANY OTHER UNAUTHORIZED USE OF THESE DOCUMENTS WITHOUT THE WRITTEN CONSENT OF DRS FOODSERVICE DESIGN INC. WILL BE SUBJECT TO LEGAL ACTION.

NOT FOR CONSTRUCTION

FOR REFERENCE ONLY

PROJECT NAME: Old Glory Restaurant
Columbia, TN

DRAWN BY:	RP
CHECKED BY:	RS
REVISION NO.	DATE:
-	-

PROJ. NO.: 23020

DATE: 12/22/2023

MECHANICAL INFO

TITLE:

FS-1.6

SHEET:

SCALE: 1/4"

NOTE:
THE PLANS AND DOCUMENTS PROVIDED BY DRS FOODSERVICE DESIGN, INC. ARE NOT TO BE USED AS CONSTRUCTION DOCUMENTS.

THESE DOCUMENTS ARE PROVIDED, TO THE ARCHITECTURAL AND ENGINEERING DESIGN TEAM, AS AN INFORMATIONAL AID IN THE FACILITY PLANNING, DESIGN AND CONSTRUCTION PROCESS AS IT PERTAINS TO FOODSERVICE EQUIPMENT AND ARE SUBJECT TO APPROVAL BEFORE INCLUSION IN THE OFFICIAL SET OF CONSTRUCTION DOCUMENTS.

ALTHOUGH EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE INFORMATION CONTAINED WITHIN THESE DOCUMENTS IS AS COMPLETE AND ACCURATE AS POSSIBLE, IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL TRADE TO REVIEW ALL DOCUMENTATION, PROVIDED BY DYKES RESTAURANT SUPPLY, INC. TO CONFIRM THAT THE INFORMATION CONTAINED HEREIN IS COMPREHENSIBLE, FREE FROM ERRORS, INCONSISTENCIES AND/OR OMISSIONS AS IT RELATES TO ANY AND ALL SPECIFIC ARCHITECTURAL FEATURES AS WELL AS ALL ELECTRICAL, MECHANICAL AND PLUMBING UTILITIES REQUIRED TO SUPPORT THE PROPER FUNCTION OF ALL FOODSERVICE EQUIPMENT PROVIDED BY DRS FOODSERVICE DESIGN , INC. BEFORE BEGINNING CONSTRUCTION.

PRELIMINARY/NOT FOR CONSTRUCTION

Section 15

24081 23079 Old Glory Columbia Civil – ADD 02

Page 154 of 256 • Lot 0001 - Tradewind Dr

OLD GLORY RESTURANT

MAP 100-G "A", PARCEL 33.35

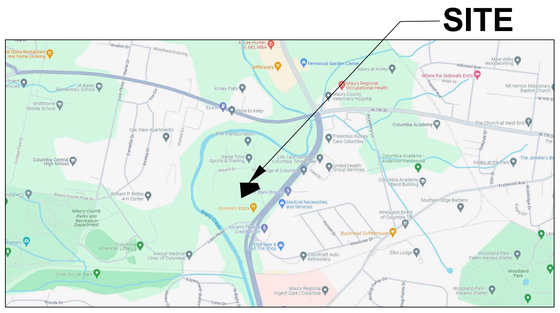
TRADEWINDS DR.
COLUMBIA, TENNESSEE

DECEMBER 7, 2023

SHEET INDEX

	COVER
	SURVEY
C100	DEMOLITION PLAN
C200	SITE PLAN
C201	SITE LAYOUT PLAN
C210	SITE DETAILS
C211	SITE DETAILS
C212	SITE DETAILS
C213	SITE DETAILS
C214	SITE DETAILS
C300	GRADING PLAN
C301	ACCESSIBILITY ENLARGEMENT
C301	SPOT SHOT ENLARGEMENT PLAN
C302	SPOT SHOT ENLARGEMENT PLAN
C400	PRE-DEVELOPED DRAINAGE MAP
C401	POST-DEVELOPED DRAINAGE MAP
C402	DRAINAGE PLAN
C410	DRAINAGE DETAILS
C411	DRAINAGE DETAILS
C412	DRAINAGE DETAILS
C500	PRE-SWPPP
C501	INTERMEDIATE-SWPPP
C502	FINAL-SWPPP
C510	SWPPP DETAILS
C600	UTILITY PLAN
C610	UTILITY DETAILS
C611	UTILITY DETAILS

SUMMARY	
TOTAL SITE ACREAGE	1.329 ACRES
TOTAL DISTURBED AREA	0.995 ACRES
DESIGN PROFESSIONAL	CURTIS P. INGRAM JR. TN LICENSE NO. 104476
U.S. FEMA FIRM MAP NO.	47119C 0280 E MAURY COUNTY, / DATED: APRIL 16, 2007 NOT IN SPECIAL FLOOD AREA

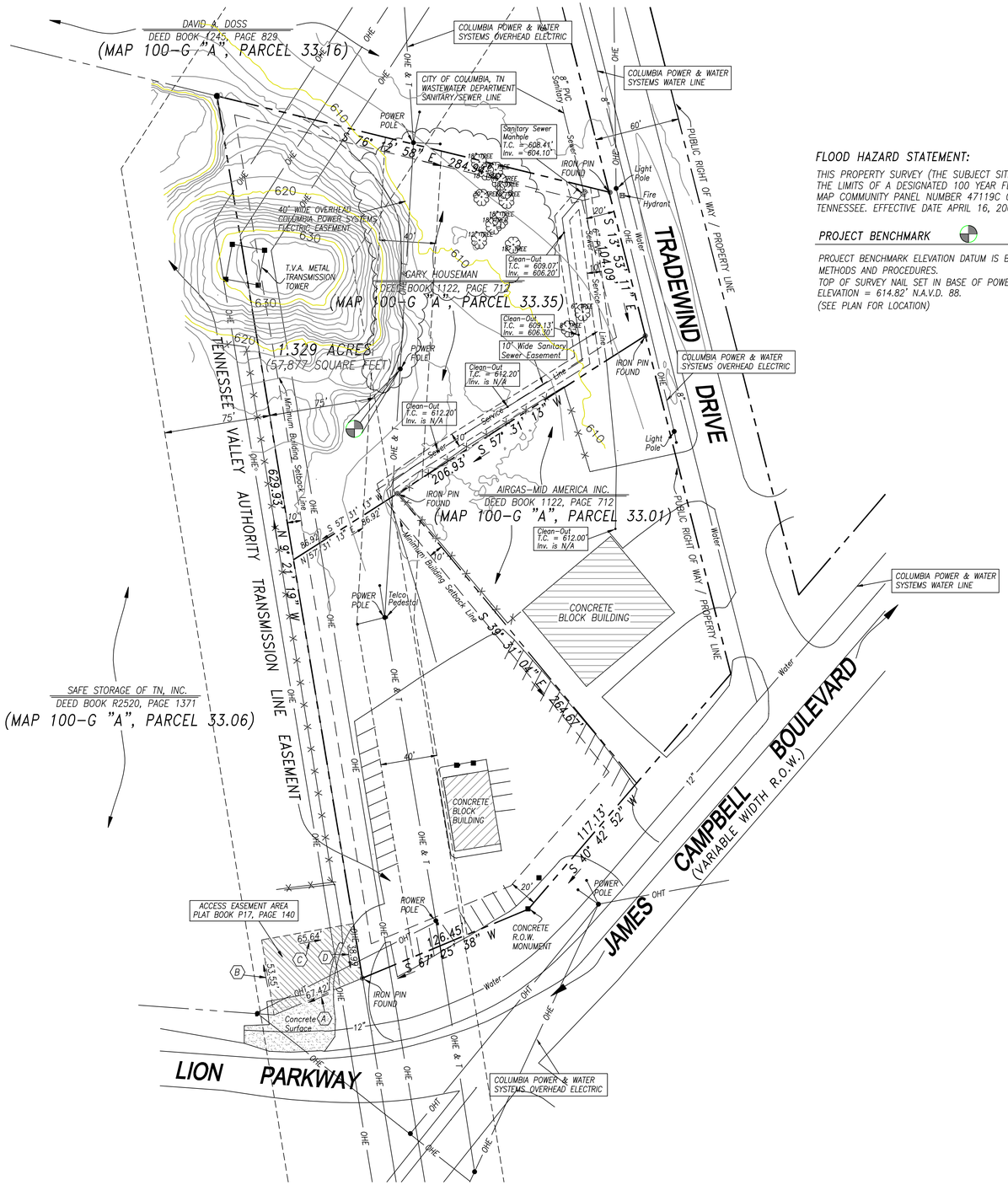


VICINITY MAP
SCALE:NTS

ICE GROUP

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK PIKE CIRCLE, SUITE 105
BRENTWOOD, TN 37027
615.370.7964 OFFICE
615.370.1273 FAX

REGISTERED ENGINEER
AGRICULTURE
TN
No. 104476
STATE OF TENNESSEE
12-7-23



TN SPC (NAD 83) GRID NORTH

GRID NORTH

40 0 40 80 120

Scale 1" = 80'

GRAPHIC SCALE
(11" X 17" SHEET SIZE)



FLOOD HAZARD STATEMENT:

THIS PROPERTY SURVEY (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA\FIRM MAP COMMUNITY PANEL NUMBER 47119C 0280 E, MAURY COUNTY, TENNESSEE. EFFECTIVE DATE APRIL 16, 2007.

PROJECT BENCHMARK

PROJECT BENCHMARK ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES.
TOP OF SURVEY NAIL SET IN BASE OF POWER POLE
ELEVATION = 614.82' N.A.V.D. 88.
(SEE PLAN FOR LOCATION)

PERIMETER DATA TABLE
ACCESS EASEMENT AREA

NO.	BEARING	DISTANCE
A	S 67° 25' 38" W	67.42'
B	N 09° 21' 18" W	53.55'
C	N 79° 53' 53" W	65.64'
D	S 09° 21' 19" E	38.99'

LEGENDS:

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- 560 INDEX CONTOURS
- 1' INTERVAL
- OHE & T OVERHEAD ELECTRIC & TELEPHONE LINES
- OHE OVERHEAD ELECTRIC
- FENCELINE
- Water PUBLIC WATER LINE

GENERAL NOTES:

1. THIS SURVEY CONFORMS TO THE GUIDELINES SET FORTH IN THE STANDARDS OF PRACTICE, CHAPTER 0820-3, FOR A GENERAL PROPERTY SURVEY, CATEGORY II, AND HAS AN UNADJUSTED FIELD RUN TRAVERSE CLOSURE EXCEEDING 1' / 7,500'.
2. PARCEL NUMBERS SHOWN THUS (00), ARE OF RECORD IN THE TAX ASSESSOR'S OFFICE OF MAURY COUNTY, TENNESSEE.
3. BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
4. PROPERTY OWNER:
   PATRICIA ANNE HOUSEMAN
   203 CHURCHILL FARMS DRIVE
   MURFREESBORO, TN 37127-7897
5. NO CURRENT TITLE COMMITMENT WAS FURNISHED TO THIS SURVEYOR AT THE TIME OF THIS SURVEY; THEREFORE, THIS SURVEY IS SUBJECT TO ANY FINDINGS THAT A CURRENT AND COMPLETE TITLE COMMITMENT MAY REVEAL.

FRANK V. NEELEY
REGISTERED LAND SURVEYOR
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 1492
STATE OF TENNESSEE

PLOT DATE: JULY 7, 2023

REVISIONS:

1		
2		
3		
4		
5		

PROJECT NO: 223.066.20
JUNE 28, 2023
DRAWN BY: F.V.N.
CHECKED BY: F.V.N.

SHARONDALE SURVEYING INC.
161 MARTIN ROAD
BON AQUA, TN 37025
(615) 513-0032
E-Mail: Sharndal@bellsouth.net

BOUNDARY & TOPOGRAPHIC SITE SURVEY OF
TAX MAP 100-G "GROUP A" PARCEL 33.35
TAX ASSESSOR'S OFFICE - MAURY COUNTY, TENNESSEE
LOCATED ON: TRADEWIND DRIVE
PREPARED FOR: INGRAM CIVIL ENGINEERING
JUNE, 2023

SHEET NUMBER:
1 OF 1

PROJECT NUMBER:
223.066.20



SITE AREA: +/-1.33 AC / OVERHEAD UTILITY EASEMENTS: 0.80 AC	
SPECIMEN TREES TO BE REMOVED: (1)	
Total Caliper Inch of Replacement: (30x2) = 60" REPLACEMENT INCHES	
EXISTING TREE CANOPY ON SITE:	7,750 sf (0.18 AC)
REQ. CANOPY RETENTION (26% OF EXISTING COVER)	2,015 sf (0.04 AC)
PROPOSED CANOPY RETENTION	0.00 sf (.000 AC)

- MITIGATION TREES TO PROVIDE IN LIEU OF 2,015 SF CANOPY COVERAGE
- MITIGATION TREES = 80 TREES PER ACRE
- REQUIRED CANOPY MITIGATION 0.04 AC X 80 = 4 TREES

NORTH

0 20 40 60 feet

SCALE: 1" = 20'

Heibert+Ball
LAND DESIGN
Suite 400
1894 Gen. George Patton Dr.
Franklin, TN 37067-4668
615.376.2421 www.hblanddesign.com

STUDIO
PARADYM STUDIO, PLLC
761 OLD HICKORY BLVD. SUITE 301
BRENTWOOD, TN 37027
call | 615.258.5562
email | hello@paradymstudio.com

Old Glory Restaurant

Columbia, TN

CONNOR R. BALL REGISTERED LANDSCAPE ARCHITECT TENNESSEE

ISSUED FOR
- Lease Outline Diagram
- Schematic Design
- [X] Design Development
- Construction

REVISIONS

H+B PROJECT NUMBER: 23293

DRAWN BY: CB

DATE: 11/22/2023

DRAWING PRESERVATION PLAN

L-100

PLANT STANDARDS

The standards set forth in "American Standard for Nursery Stock" represent general guideline specifications only and will constitute minimum quality requirements for plant material. All plants must meet minimum size noted at the materials schedule. And meet the characteristics stated on this drawing. All material installed on the site MUST meet or exceed these specifications. Any trees or shrubs not meeting these standards can be rejected at time of inspection.

TREE SPECIFICATIONS: ALL TREES SHALL HAVE THE FOLLOWING CHARACTERISTICS:

1. Deciduous trees shall have one dominant single straight trunk with the tip of the leader on the main trunk left intact and the terminal bud on the central leader is at the highest point on the tree.
2. Trees with forked trunks are acceptable if all the following conditions are met:
   a. The fork occurs in the upper 1/3 of the tree.
   b. One fork is less than 2/3 the diameter of the dominant fork.
   c. The top 1/3 of the smaller fork is removed at the time of planting.
3. No branch is greater than 2/3 the diameter of the trunk directly above the branch.
4. The trunk and/or major branches shall not touch
5. Several branches are larger in diameter and obviously more dominant.
6. Branching habit is more horizontal than vertical, and no branches are oriented nearly vertical to the trunk.
7. Branches are evenly distributed around the trunk with no more than one major branch located directly above another and the crown is full of foliage evenly distributed around the tree
8. Crown spread shall look proportional to the tree.
9. NO flush cuts or open trunk wounds or other bark injury
10. Root ball meets all ANSI standards and is appropriately sized

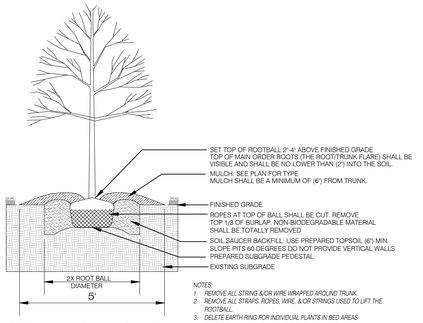
DEFICIENCIES NOT ACCEPTED:

1. Tip dieback on 5% of branches
2. Crown thin/spasely foliated
3. Included bark
4. Major Branches touching
5. Asymmetrical branching

Landscape shall not obstruct visibility or access to fire protection equipment including, but not limited to, fire hydrants and fire department connections

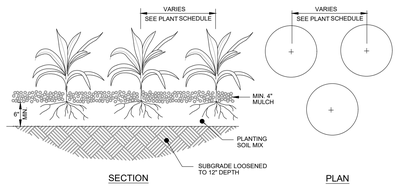
PLANTING NOTES:

1. Refer to all written specifications; adhere to Plans and Specifications for all phases of work.
2. Verify all utility locations in the field before work begins. Repair damaged utilities to owners satisfaction at no additional cost.
3. Verify all material quantities on the drawing during bidding and pricing. In the event of a discrepancy, the quantities drawn on the plan will take precedence over the material schedule.
4. All materials are subject to the approval of the Landscape Architect, City, and Owner.
5. Once unloaded from truck, immediately stand all trees up. DO NOT lie the trees down. This will reduce the risk of sunscald.
6. Plants shall meet specifications. Root balls shall meet or exceed size standards as set forth by 'American Standards for Nursery Stock'. Main leaders of all trees shall remain intact.
7. Mulch plant pits and planting beds with specified mulch to the depth indicated on drawings.
8. Prepare all topsoil used in tree, shrub, and seed mixes in accordance with the specifications
9. Discard any material which turns brown or defoliates within 5 days after planting. Replace immediately with approved specified material at no additional cost.
10. Maintain all plant material and lawns until project is accepted in full by the City.
11. Guarantee all workmanship and materials for a period of 1 calendar year.
12. Install all plant material in accordance with all local codes and ordinances. Obtain any required permits necessary to complete the work.
13. Trees shall be first quality representatives of their species and shall meet all requirements otherwise stipulated. The Landscape Architect reserves the right to reject plant materials in the field, at the growing location, or at the job site at any time during the project.
14. Test all tree pits for drainage. Any tree pit that holds water for more than 24 hours shall be installed using filter fabric wrapped perforated drainage tube (sloped to low point) and a washed pea gravel pit well drain



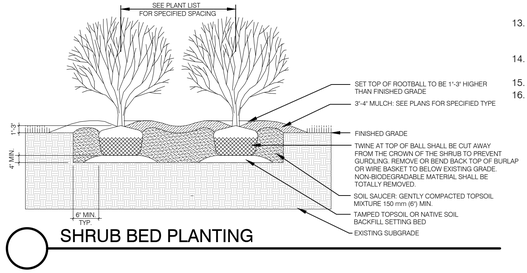
DECIDUOUS TREE PLANTING

P-NO-12



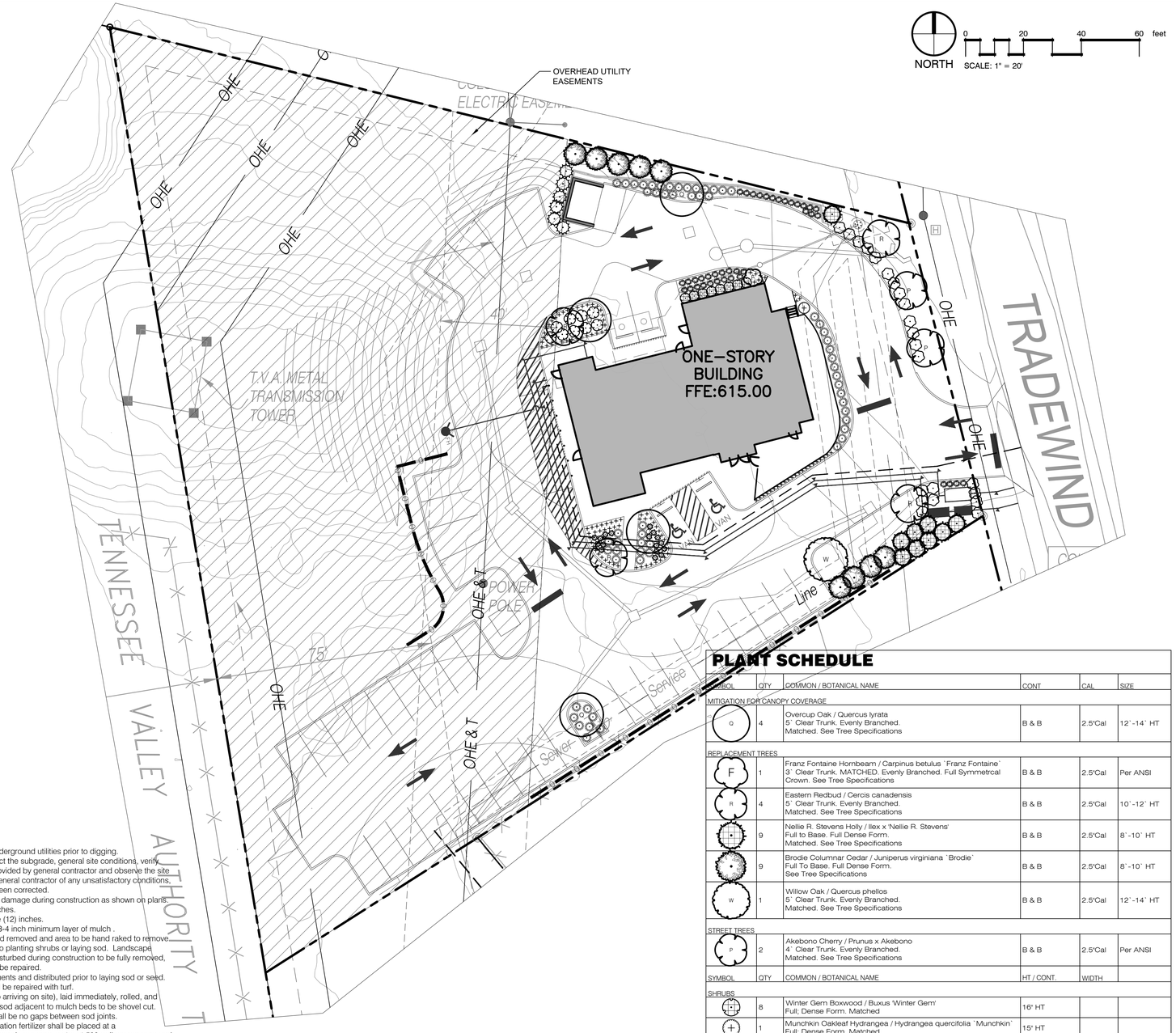
GROUNDCOVER PLANTINGS

GROUNDCOVER, GRASSES, AND PERENNIALS



SHRUB BED PLANTING

811 Know what's below. Call before you dig.



PLANT SCHEDULE

SYMBOL	QTY	COMMON / BOTANICAL NAME	CONT	CAL	SIZE
MITIGATION FOR CANOPY COVERAGE					
O	4	Overcup Oak / Quercus lyrata 5` Clear Trunk. Evenly Branched. Matched. See Tree Specifications	B & B	2.5"Cal	12`-14` HT
REPLACEMENT TREES					
F	1	Franz Fontaine Hornbeam / Carpinus betulus `Franz Fontaine` 3` Clear Trunk. MATCHED. Evenly Branched. Full Symmetrcal Crown. See Tree Specifications	B & B	2.5"Cal	Per ANSI
R	4	Eastern Redbud / Cercis canadensis 5` Clear Trunk. Evenly Branched. Matched. See Tree Specifications	B & B	2.5"Cal	10`-12` HT
	9	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens' Full to Base. Full Dense Form. Matched. See Tree Specifications	B & B	2.5"Cal	8`-10` HT
	9	Brodie Columnar Cedar / Juniperus virginiana `Brodie` Full To Base. Full Dense Form. See Tree Specifications	B & B	2.5"Cal	8`-10` HT
W	1	Willow Oak / Quercus phellos 5` Clear Trunk. Evenly Branched. Matched. See Tree Specifications	B & B	2.5"Cal	12`-14` HT
STREET TREES					
P	2	Akebono Cherry / Prunus x Akebono 4` Clear Trunk. Evenly Branched. Matched. See Tree Specifications	B & B	2.5"Cal	Per ANSI
SYMBOL	QTY	COMMON / BOTANICAL NAME	HT / CONT.	WIDTH	
SHRUBS					
	8	Winter Gem Boxwood / Buxus 'Winter Gem' Full; Dense Form. Matched	16" HT		
	1	Munchkin Oakleaf Hydrangea / Hydrangea quercifolia `Munchkin` Full; Dense Form. Matched	15" HT		
	9	Little Henry Sweetspire / Itea virginica `Little Henry` Full; Dense Form	30" HT		
	22	Dense Yew / Taxus x media `Densiformis` Full; Dense Form	30" HT		
	6	Prague Viburnum / Viburnum x pragense Full; Dense Form. Matched	30" HT		
GRASSES					
	111	Big Blue Lilyturf / Liriope muscari `Big Blue` Full; Dense; Well Rooted	#1 Container		
	58	Shenandoah Switch Grass / Panicum virgatum `Shenandoah` Full; Dense; Well Rooted	#3 Container		
	39	Little Bluestem / Schizachyrium scoparium `Blue Heaven` Full; Heavy; Well Rooted	#1 Container		
PERENNIALS					
	17	Coneflower / Rudbeckia fulgida `Goldstrum` Full. Heavy. Well Rooted	#1 Container		

LANDSCAPE NOTES:

1. Contractor responsible for locating and protecting all underground utilities prior to digging.
2. Prior to installation, the landscape contractor shall inspect the subgrade, general site conditions, verify elevations, utility locations, irrigation, approve topsoil provided by general contractor and observe the site conditions under which the work is to be done. Notify general contractor of any unsatisfactory conditions, and work shall not proceed until such conditions have been corrected.
3. Contractor responsible for protecting existing trees from damage during construction as shown on plans.
4. Minimum topsoil depth in lawn areas shall be four (4) inches.
5. Minimal topsoil depth in landscape areas shall be twelve (12) inches.
6. All shrub beds (existing and new) to be mulched with a 3-4 inch minimum layer of mulch .
7. Existing grass in proposed planting areas to be killed and removed and area to be hand raked to remove all rocks and debris larger than 1 inch in diameter prior to planting shrubs or laying sod. Landscape contractor to provide fine grading. Any existing grass disturbed during construction to be fully removed, re-graded and replaced. All tire marks and indention to be repaired.
8. Soil to be tested to determine fertilizer and lime requirements and distributed prior to laying sod or seed.
9. All areas of disturbance outside of landscape beds shall be repaired with turf.
10. Sod to be delivered fresh (cut less than 24 hours prior to arriving on site), laid immediately, rolled, and watered thoroughly immediately after planting. edge of sod adjacent to mulch beds to be shovel cut. All sod to be delivered in largest rolls available. there shall be no gaps between sod joints.
11. Lawns shall be seeded by hydroseeding method; application fertilizer shall be placed at a minimum of 80 pounds per acre, hydromulch at 1,200 pounds per acre, water at 500 gallons per acre and seed at a minimum of 220 pounds per acre. Slope protection shall be provided in seeded areas with slopes three (3) feet horizontal to one (1) foot vertical (i.e. 3H:1V) or greater.
12. The landscape contractor shall guarantee all plants installed for one full year from date of acceptance. All plants shall be alive and at a vigorous rate of growth at the end of the guarantee period. The landscape contractor shall not be responsible for acts of god or vandalism.
13. Any plant that is determined dead, in an unhealthy or unsightly condition, lost its shape due to dead branches or other symptoms of poor, non-vigorous growth, as determined by the landscape architect, shall be replaced by the landscape contractor at no cost to owner.
14. Water all plant material that are newly planted thoroughly twice in first 24 hours and apply mulch immediately.
15. All trees and shrubs shall be coordinated with lighting plan prior to installation.
16. Any utility structure, light poles, sign, or other feature may not be added to any required landscape island in such a manner that would displace the required element(s) (trees, shrubs, etc.)

SUBSTITUTION NOTE:

1. Requirements shown are per the City Zoning Ordinance. Substitutions are not allowed unless approved by the City and Heibert+Ball Land Design

TO AVOID OVERHEAD LIGHT POLE CONFLICTS:

In the event proposed canopy trees are in conflict (within 15') with proposed or existing light pole locations, the landscape contractor shall stop work and contact Heibert+Ball Land Design immediately for coordination and field adjustment

TO AVOID OVERHEAD UTILITY CONFLICTS:

In the event proposed canopy trees are in conflict (within 25') with proposed or existing overhead utility locations, the landscape contractor shall stop work and contact Heibert+Ball Land Design immediately for coordination and field adjustment.

- 1 TREE PER 50 FT OF FRONTAGE: 2 TREES
- TREE CANOPY MITIGATION: 4 TREES
- HERITAGE TREE REPLACEMENT: 60 CALIPER INCHES
- MIN. SIZE: 2.5" / MIN. SPECIES: 3 / MAX. GENERA: 50%
- FOUNDATION PLANTINGS

Heibert+Ball LAND DESIGN
Suite 400
1894 Gen. George Patton Dr.
Franklin, TN 37067-4668
615.376.2421 www.hblanddesign.com

P. STUDIO

PARADYM STUDIO, PLLC
761 OLD HICKORY BLVD. SUITE 301
BRENTWOOD, TN 37027
call | 615.258.5562
email | hello@paradymstudio.com

Old Glory Restaurant

Columbia, TN

CONNOR L. BALL REGISTERED LANDSCAPE ARCHITECT TENNESSEE

ISSUED FOR

- [ ] Lease Outline Diagram
- [ ] Schematic Design
- [x] Design Development
- [ ] Construction

REVISIONS

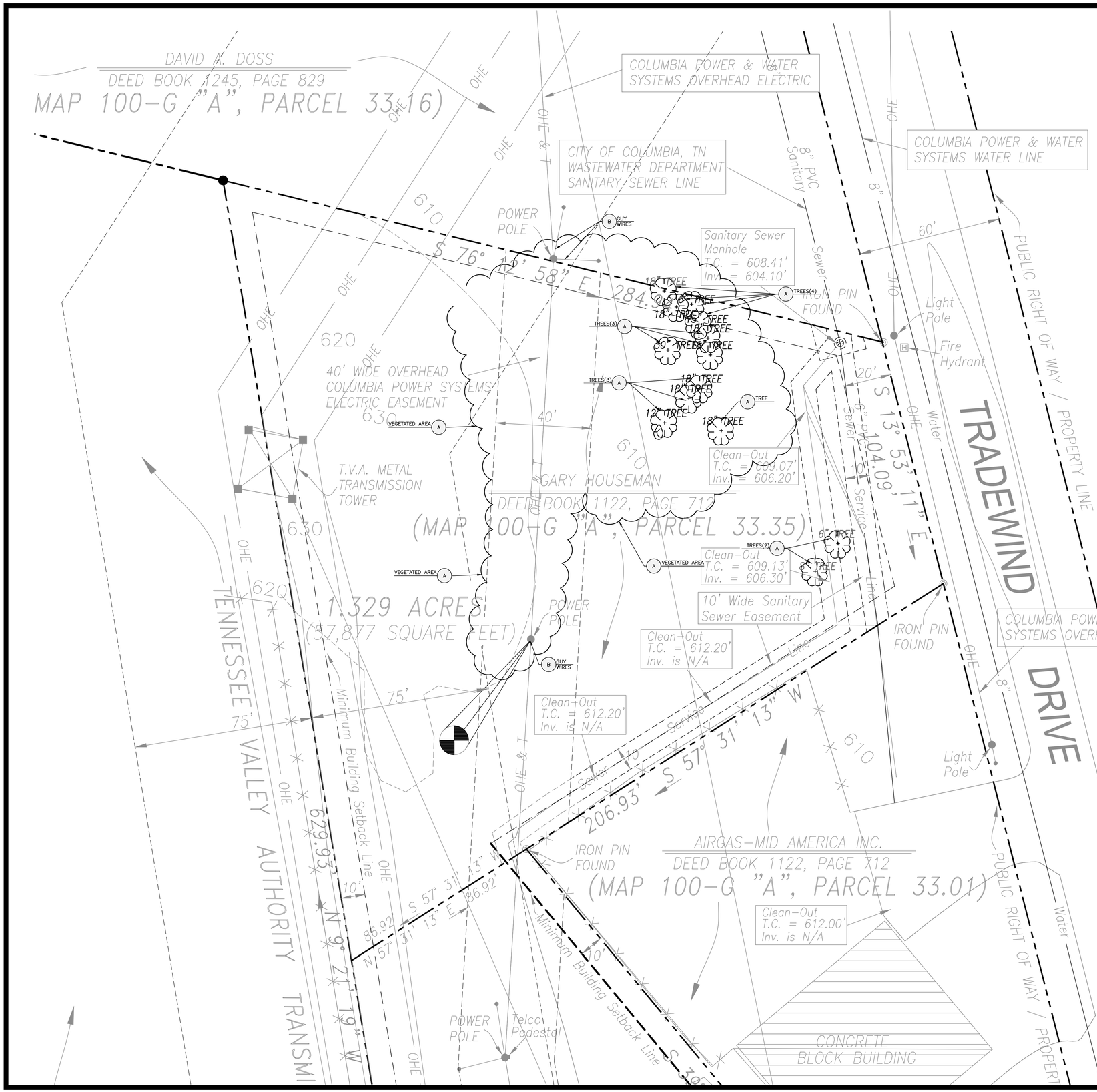
H+B PROJECT NUMBER: 23293

DRAWN BY: CB

DATE: 11/22/2023

DRAWING LANDSCAPE PLAN

L-101



GENERAL DEMOLITION NOTES

1. THE SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE CITY OF COLUMBIA/MAURY COUNTY STANDARD SITE WORK SPECIFICATIONS.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS, AS NOTED. SEE SITE WORK SPECIFICATIONS.

3. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.

4. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.

5. ENGINEER'S NOTICE TO CONTRACTOR: THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

6. SITE LAYOUT FOR OLD GLORY RESTAURANT BY INGRAM CIVIL ENGINEERING GROUP, LLC, BASED ON SITE SURVEY BY SHARONDALE SURVEYING ON 6-28-23. ORIGINAL TOPOGRAPHICAL INFORMATION IS BASED ON A SURVEY BY SHARONDALE SURVEYING ON 6-28-23. THE ENGINEER, THE OWNER, OR ANY OF THE OWNER'S CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION.

7. ALL NOTED DISTANCES WITH REGARD TO ITEMS TO BE DEMOLISHED ARE APPROXIMATE.

8. WRITTEN DIMENSIONS PREVAIL. DO NOT SCALE THESE DRAWINGS. PRINTED DIMENSIONS WHICH ARE OMITTED OR IN CONFLICT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW AND RESPONSE. DIMENSIONS ARE FROM FACE OF CURB / EDGE OF PAVEMENT AND FACE OF BUILDING, UNLESS NOTED OTHERWISE.

DEMOLITION NOTES

A	TO BE REMOVED.
B	COORDINATE GUY WIRE RELOCATION WITH COLUMBIA POWER AND WATER SYSTEMS.

LEGEND: DEMOLITION

EXISTING TREE TO BE REMOVED

DEMOLITION PLAN

20 0 20 40
GRAPHIC SCALE

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, SUITE 105
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LICENSE # 104476
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Old Glory Restaurant

Columbia, TN

CURTIS P. INGRAM JR. REGISTERED ENGINEER AGRICULTURE 12-13-23 No. 104476 STATE OF TENNESSEE

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ▣ Construction

REVISIONS

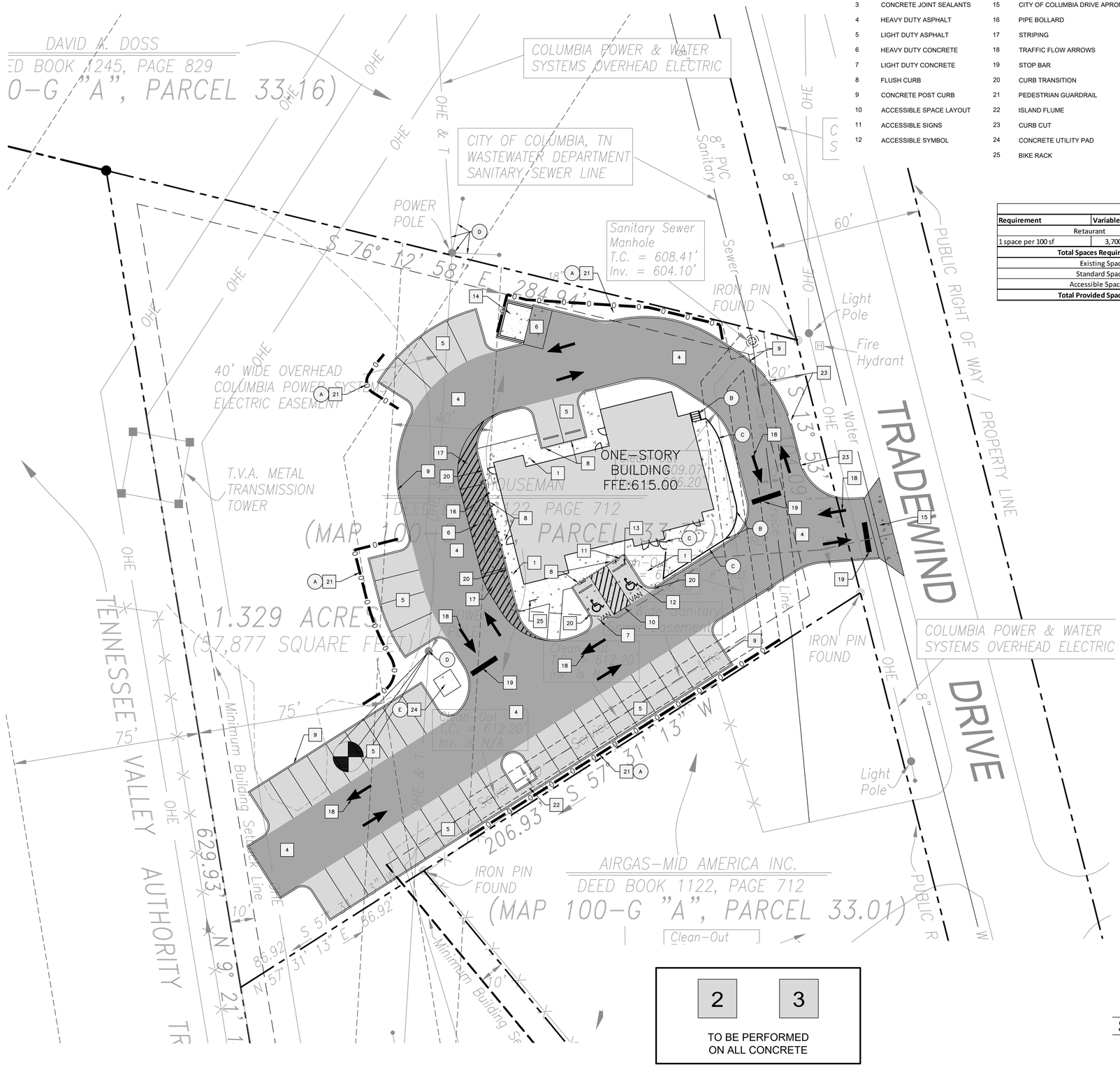
PROJECT NUMBER: 118723

DRAWN BY: SAS

DATE: 12/08/23

DRAWING DEMOLITION PLAN

C100



SITE DETAILS

1	CONCRETE SIDEWALK	13	WHEEL STOP
2	CONCRETE JOINTS	14	CITY OF COLUMBIA DUMPSTER PAD AND ENCLOSURE
3	CONCRETE JOINT SEALANTS	15	CITY OF COLUMBIA DRIVE APRON
4	HEAVY DUTY ASPHALT	16	PIPE BOLLARD
5	LIGHT DUTY ASPHALT	17	STRIPING
6	HEAVY DUTY CONCRETE	18	TRAFFIC FLOW ARROWS
7	LIGHT DUTY CONCRETE	19	STOP BAR
8	FLUSH CURB	20	CURB TRANSITION
9	CONCRETE POST CURB	21	PEDESTRIAN GUARDRAIL
10	ACCESSIBLE SPACE LAYOUT	22	ISLAND FLUME
11	ACCESSIBLE SIGNS	23	CURB CUT
12	ACCESSIBLE SYMBOL	24	CONCRETE UTILITY PAD
		25	BIKE RACK

Requirement	Variable No.	No. of Spaces
Retaurant		
1 space per 100 sf	3,700	37
Total Spaces Required =		**37**
Existing Spaces =		0
Standard Spaces =		39
Accessible Spaces =		2
Total Provided Spaces =		**41**

GENERAL SITE NOTES

1. SITE LAYOUT FOR OLD GLORY RESTAURANT BY INGRAM CIVIL ENGINEERING GROUP, LLC, BASED ON SITE SURVEY BY SHARONDALE SURVEYING ON 6-28-23.

2. ORIGINAL TOPOGRAPHICAL INFORMATION IS BASED ON A SURVEY BY SHARONDALE SURVEYING ON 6-28-23. THE ENGINEER, THE OWNER, OR ANY OF THE OWNER'S CONSULTANTS SHALL NOT BE HELD RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION.

3. ALL CIVIL/SITE WORK ELEMENTS INDICATED TO BE CONSTRUCTED ON THE PLANS ARE TO BE BUILT IN STRICT ACCORDANCE WITH THE STANDARDS ADOPTED BY THE CITY OF COLUMBIA/MAURY COUNTY, UNLESS SPECIFICALLY NOTED OTHERWISE. ALL SITE WORK MUST ALSO COMPLY WITH THE CITY OF COLUMBIA/MAURY COUNTY ENVIRONMENTAL REQUIREMENTS AND FEDERAL EPA REQUIREMENTS.

4. WRITTEN DIMENSIONS PREVAIL. DO NOT SCALE THESE DRAWINGS. PRINTED DIMENSIONS WHICH ARE OMITTED OR IN CONFLICT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW AND RESPONSE. DIMENSIONS ARE FROM FACE OF CURB / EDGE OF PAVEMENT AND FACE OF BUILDING, UNLESS NOTED OTHERWISE.

5. DIMENSIONS LOCATING THE BUILDING IN RELATIONSHIP TO THE PROPERTY LINES HAVE BEEN PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. WHERE POSSIBLE, COORDINATES CAN BE USED TO ESTABLISH PHYSICAL LENGTHS ALONG THE BUILDING PERIMETER. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING FROM STRUCTURAL AND ARCHITECTURAL DRAWINGS THE ACTUAL EXTENT OF THE BUILDING ON THE PROPERTY. BUILDING LAYOUT SHALL BE BASED SOLELY ON DIMENSIONAL INFORMATION PROVIDED ON STRUCTURAL AND ARCHITECTURAL DRAWINGS. DISCREPANCIES WHICH IMPACT SITE LAYOUT SHOULD BE IMMEDIATELY REPORTED TO THE ENGINEER.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL SITE FEATURES, (BUILDINGS, ROADS, PARKING, PADS, WALKS, ETC.) AND WILL EMPLOY A LAND SURVEYOR LICENSED TO PRACTICE IN THE PROJECT'S REGION OF CONSTRUCTION TO STAKE OUT AND MAINTAIN ALL REQUIRED CONTROL POINTS THROUGHOUT THE LIFE OF THE PROJECT. THE SURVEYOR SHALL CERTIFY TO THE ENGINEER, IN WRITING, THAT THE LAYOUT IN THE FIELD SUBSTANTIALLY CONFORMS TO THE LAYOUT INDICATED ON THE CONTRACT DOCUMENTS. LAYOUT DISCREPENCIES OR CHANGES SHOULD BE SO NOTED TO THE ENGINEER.

7. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE DAMAGE OR LOSS OF ANY REFERENCE POINTS, MONUMENTS, HUBS, AND STAKED LOT CORNERS DURING THE CONSTRUCTION OF THE WORK AND SHALL BEAR ANY COST ASSOCIATED WITH REPAIR.

8. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.

9. MATERIALS AND PROCESSES OF CONSTRUCTION ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. WHILE THE ENGINEER HAS PROVIDED, FOR THE CONVENIENCE OF THE CONTRACTOR, DRAWINGS OUTLINING CERTAIN REQUIRED OSHA MINIMUM SAFETY PRACTICES, THE ENGINEER DOES NOT ACCEPT RESPONSIBILITY FOR THE ACCURACY OF THE INFORMATION OR FOR VERIFYING THAT SUCH MEASURES ARE IMPLEMENTED ON SITE. MAINTAINING A SAFE ENVIROMENT DURING THE PROMULGATION OF THE WORK IS THE RESPONSIBILITY OF THE CONTRACTOR, THE ENGINEER, THE OWNER AND OTHER CONSULTANTS, HAVE NO EXPERTISE, NOR ACCEPT ANY LIABILITY, IMPLIED OR OTHERWISE, FOR MATERIALS AND PROCESSES OF CONSTRUCTION.

10. THE CONTRACTOR SHALL NOT COMMENCE ANY WORK WHICH IS NOT UNDER THE CONTROL OR OWNERSHIP OF THE OWNER WITHOUT WRITTEN PERMISSION FROM THE PROPERTY'S OWNER OR CONTROLLING INTEREST. WHERE CONTROLLING INTEREST IS A LOCAL, STATE, OR FEDERAL AGENCY, THEN APPROVAL FOR CONSTRUCTION SHALL CONSTITUTE AUTHORITY TO COMMENCE WORK.

11. WHERE NOT SPECIFICALLY NOTED OTHERWISE, ALL CONCRETE FINISHES SHALL BE SLIP RESISTANT PER TECHNICAL SPECIFICATIONS.

12. ALL ACCESSIBLE PARKING SPACES, INDICATED WITH THE GRAPHIC ACCESSIBLE SYMBOL, DENOTE ACCESSIBLE PARKING SPACES. THESE SPACES ARE DESIGNED TO CONFORM TO ADA AND TENNESSEE ACCESSIBILITY STANDARD SPECIFICATIONS. ALL INDICATED SPACES SHALL RECEIVE THE PAINTED SYMBOL AND APPROPRIATE IDENTIFICATION SIGNAGE. WHERE REQUIREMENTS ARE DIFFERENT OR IN EXCESS OF THESE, THE CONTRACTOR WILL ALLOW FOR THOSE ADDITIONAL REQUIREMENTS IN HIS PRICE AND PROMPTLY SUBMIT THEM TO THE ENGINEER.

13. THE CONTRACTOR IS RESPONSIBLE FOR USING THE ONE-CALL SYSTEM OR OTHER MEANS TO CONTACT AND VERIFY LOCATIONS OF ALL UTILITIES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR REPAIRS TO DAMAGED UTILITIES.

14. THE CONTRACTOR IS TO CONTROL TRAFFIC FLOW DURING TIME OF CONSTRUCTION. ANY AND ALL TRAFFIC CONTROL IMPLEMENTED DURING THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

15. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY MUST BE IN ACCORDANCE WITH CITY OF COLUMBIA/MAURY COUNTY AND TENNESSEE D.O.T. REGULATIONS.

SITE NOTES

A	PEDESTRIAN GUARDRAIL TO RUN THE ENTIRE LENGTH OF WALL.
B	COORDINATE WITH STRUCTURAL FOR STEPS AND RETAINING WALL IN THIS AREA.
C	SEE ARCHITECTURAL PLANS FOR FENCE AND GATE IN PATIO AREA.
D	COORDINATE GUY WIRE RELOCATION WITH COLUMBIA POWER AND WATER SYSTEMS.
E	8' X 8' TRANSFORMER PAD. COORDINATE FINAL SIZE AND SECTION WITH MANUFACTURER'S SPECIFICATIONS.

LEGEND: SITE

L1	PROPOSED HC ACCESSIBLE PARKING SPACE
C1	LINEAR DIMENSION
	PROPOSED CURVE RADIUS DIMENSION
	PROPOSED SIGN
	PROPOSED PRECAST WHEEL STOP
	PROPOSED TRAFFIC ARROW
	PROPOSED STOP BAR
	PROPOSED HEAVY DUTY ASPHALT PAVEMENT
	PROPOSED LIGHT DUTY ASPHALT PAVEMENT
	PROPOSED HEAVY DUTY CONCRETE PAVEMENT
	PROPOSED LIGHT DUTY CONCRETE PAVEMENT
	PROPOSED CONCRETE WALK

2 3

TO BE PERFORMED ON ALL CONCRETE

SITE PLAN

GRAPHIC SCALE 20 0 20 40

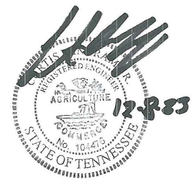
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Page 159 of 256 • Lot 0001 - Tradewind Dr



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- ☐ Schematic Design
- ☐ Design Development
- ▩ Construction

REVISIONS

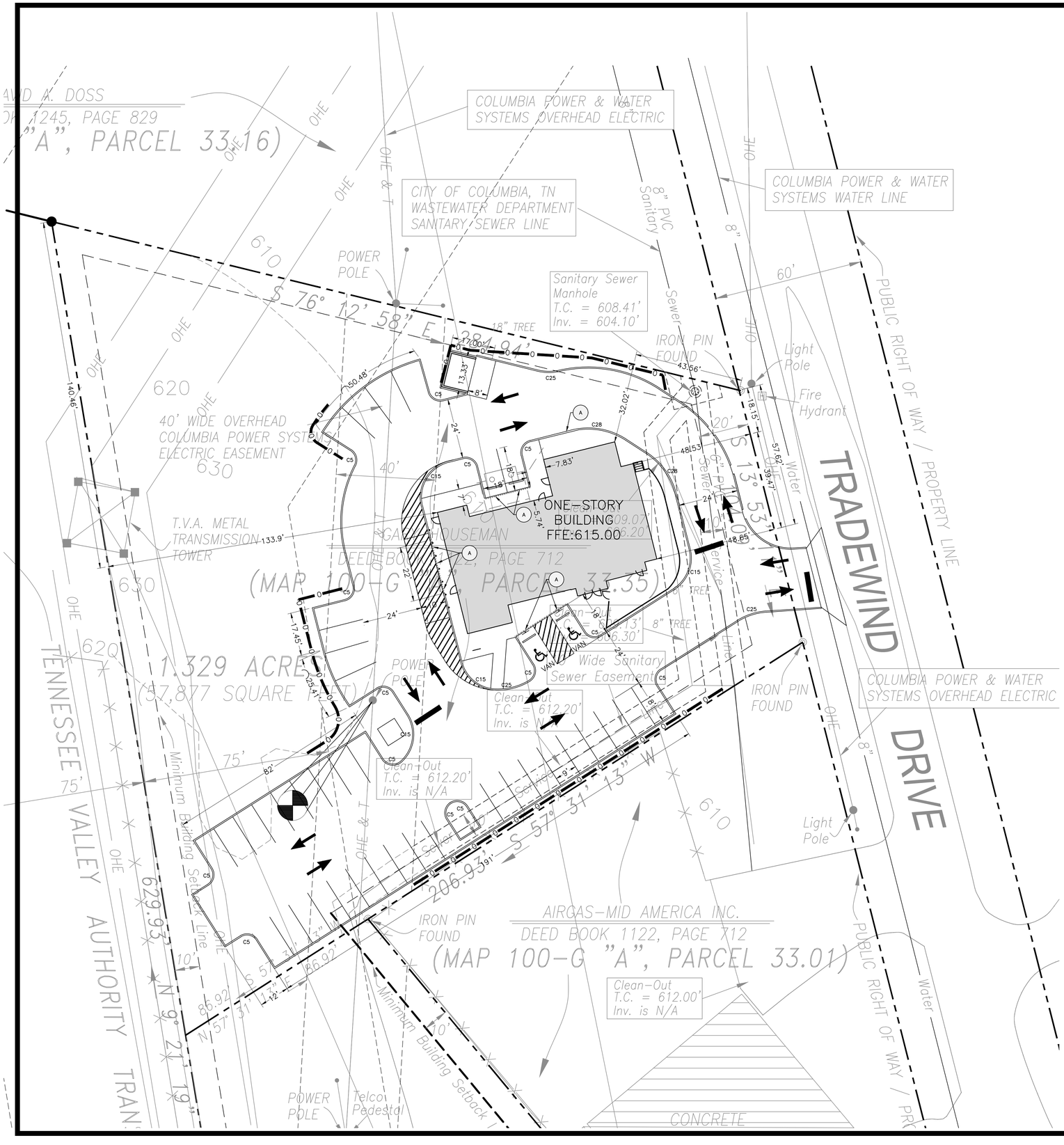
PROJECT NUMBER: 118723

DRAWN BY: SAS

DATE: 12/08/23

DRAWING SITE PLAN

C200



CURVE TABLE

C5	R:5
C15	R:15
C25	R:25
C28	R:28

SITE NOTES

A	FLUSH CONDITION.

LEGEND: SITE LAYOUT

- L1 — LINEAR DIMENSION
- C1 — PROPOSED CURVE RADIUS DIMENSION
- PROPOSED FLUSH CONDTION

SITE LAYOUT PLAN

20 0 20 40
GRAPHIC SCALE

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12-8-23

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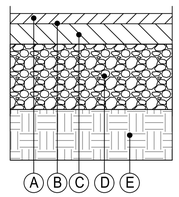
PROJECT NUMBER: 118723

DRAWN BY: SAS

DATE: 12/08/23

DRAWING SITE LAYOUT PLAN

C201



A 1.5" ASPHALTIC SURFACE COURSE

B TACK COAT

C 1.5" ASPHALTIC BINDER

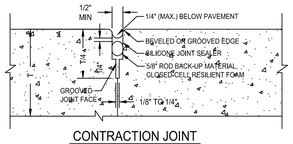
ADD#1

D 6" MINERAL AGGREGATE BASE COURSE COMPACTED TO 98% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY

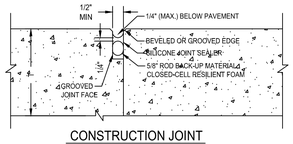
E 12" SUBGRADE COMPACTED TO 95% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY

ASPHALT PAVEMENT SECTION (LIGHT DUTY)
(NOT TO SCALE)

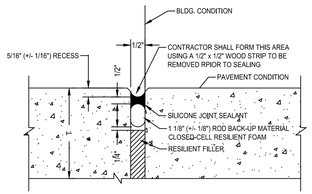
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CONTRACTION JOINT



CONSTRUCTION JOINT

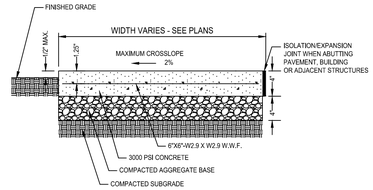


ISOLATION / EXPANSION JOINT

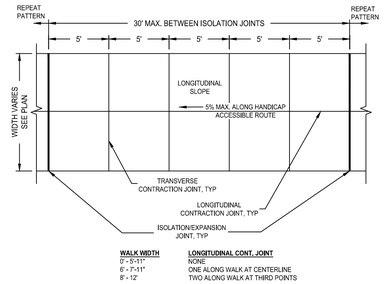
T = PAVEMENT THICKNESS
COORDINATE W/ TECHNICAL SPECIFICATIONS

CONCRETE JOINT SEALANT DETAILS
(NOT TO SCALE)

3



TRANSVERSE SECTION



WALK WIDTH	LONGITUDINAL CONT. JOINT
0' - 5'-11"	NONE
6' - 7'-11"	ONE ALONG WALK AT CENTERLINE
8' - 12'	TWO ALONG WALK AT THIRD POINTS

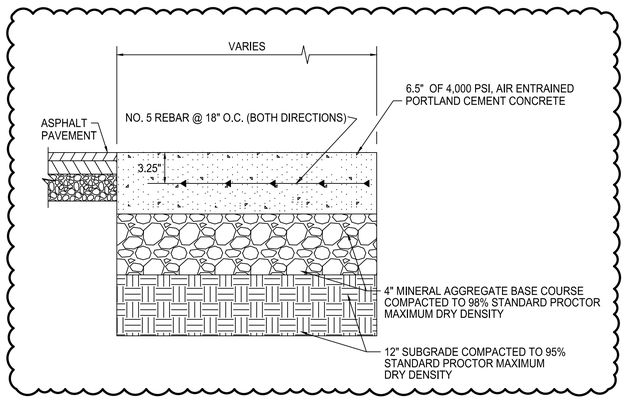
PARTIAL PLAN

SEE TYPICAL JOINT AND JOINT SEALANT DETAILS
COORDINATE WITH TECHNICAL SPECIFICATIONS.

CONCRETE WALK (TYP)
(NOT TO SCALE)

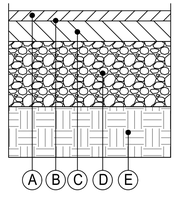
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ADD#1



CONCRETE PAVEMENT-HEAVY DUTY
(NOT TO SCALE)

6



A 1.5" ASPHALTIC SURFACE COURSE

B TACK COAT

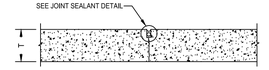
ADD#1 C 2.5" ASPHALTIC BINDER

D 8" MINERAL AGGREGATE BASE COURSE COMPACTED TO 98% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY

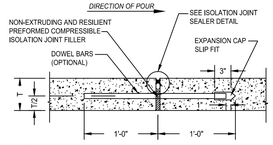
E 12" SUBGRADE COMPACTED TO 95% OF THE MAXIMUM MODIFIED PROCTOR DRY DENSITY

ASPHALT PAVEMENT SECTION (HEAVY DUTY)
(NOT TO SCALE)

4



CONTRACTION JOINT



NOTE:
1- PROVIDE ISOLATION JOINT AT A MAX. 25' SPACING UNLESS OTHERWISE NOTED.
*2- DOWEL BARS, **IF USED**, TO BE NO. 5 (SMOOTH) DOWEL 24" O.C., L=2', TREAT FREE END OF DOWEL WITH HEAVY GREASE TO ELIMINATE BOND.*

ISOLATION JOINT

NOTE:
1- COORDINATE ALL JOINTS WITH TECHNICAL SPECIFICATIONS
2- DOWEL BARS ARE NOT TO BE USED UNLESS SPECIFICALLY NOTED.

T = PAVEMENT THICKNESS
TE = THICKNESS OF ADJACENT PAVEMENT

COORDINATE WITH TECHNICAL SPECIFICATIONS.

CONCRETE JOINT DETAILS (TYP)
(NOT TO SCALE)

2

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AGRICULTURE
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REVISIONS
ADD#1 - 01/24/2024

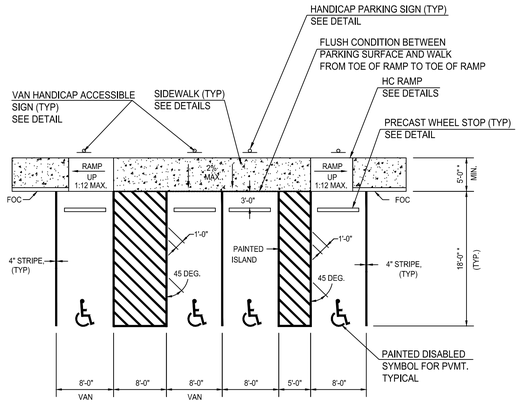
PROJECT NUMBER:
118723

DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
SITE DETAILS

C210

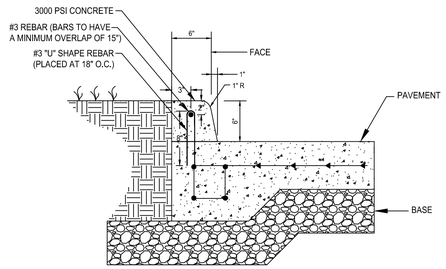


* ALL AREAS INSIDE PARKING, LOADING AISLES AND WALKS DIRECTLY IN FRONT OF ACCESSIBLE SPACES SHALL BE LESS THAN 2% SLOPE IN ALL DIRECTIONS.

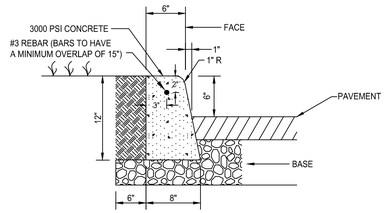
* COORDINATE DIMENSIONS WITH SITE PLAN

ACCESSIBLE PARKING SPACE LAYOUT
(NOT TO SCALE)

10



CONCRETE POST CURB-CONCRETE PAVEMENT

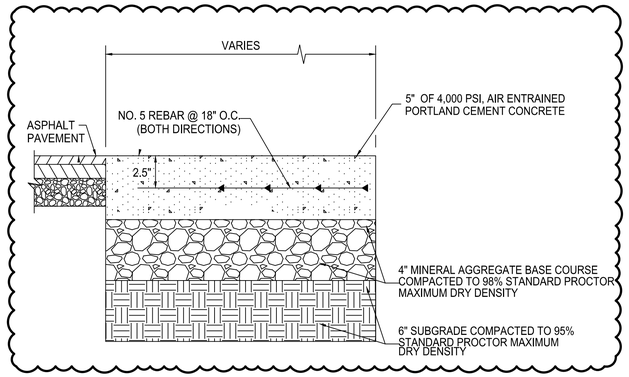


COORDINATE WITH TECHNICAL SPECIFICATIONS.

CONCRETE POST CURB-ASPHALT PAVEMENT
(NOT TO SCALE)

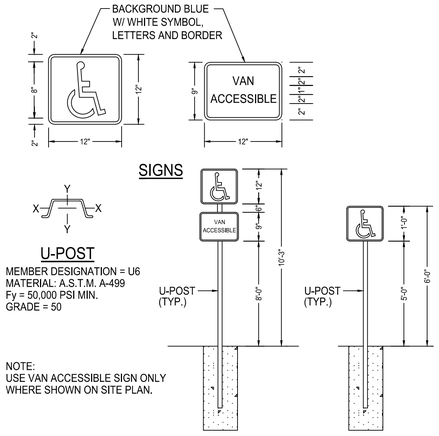
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ADD#1



CONCRETE PAVEMENT-LIGHT DUTY
(NOT TO SCALE)

7

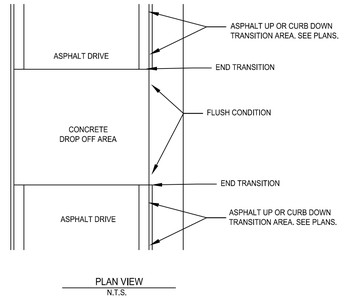


NOTE:
USE VAN ACCESSIBLE SIGN ONLY
WHERE SHOWN ON SITE PLAN.

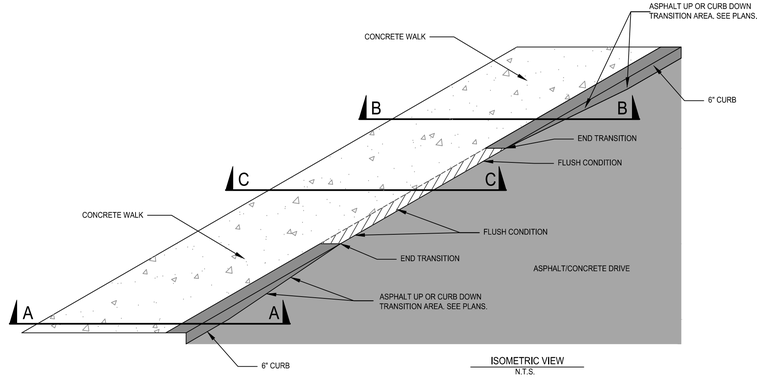
ACCESSIBLE PARKING SIGNS
(NOT TO SCALE)

NOTE:
SIGNS DESIGNATING DISABLED PARKING SHALL INDICATE THAT UNAUTHORIZED OR IMPROPERLY PARKED VEHICLES MAY BE TOWED AND THE DRIVER FINED TWO HUNDRED DOLLARS ($200), AND SHALL ALSO PROVIDE THE NAME AND TELEPHONE NUMBER OF THE TOWING COMPANY OR THE NAME AND TELEPHONE NUMBER OF THE PROPERTY OWNER, LESSEE OR AGENT IN CONTROL OF THE PROPERTY.

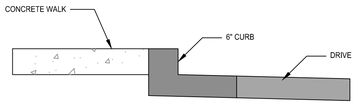
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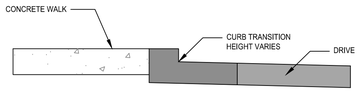
PLAN VIEW
N.T.S.



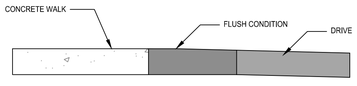
ISOMETRIC VIEW
N.T.S.



SECTION "AA" - FULL CURB
N.T.S.



SECTION "BB" - CURB TRANSITION
N.T.S.



SECTION "CC" - FLUSH CONDITION
N.T.S.

FLUSH CURB CONDITION
(NOT TO SCALE)

8

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- ☐ Schematic Design
- ☐ Design Development
- ▨ Construction

REVISIONS
ADD#1 - 01/24/2024

PROJECT NUMBER:
118723

DRAWN BY:
SAS

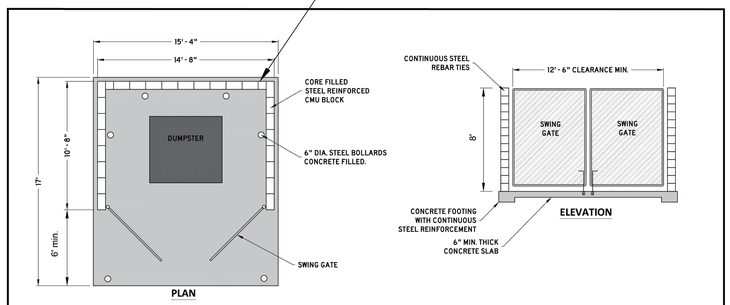
DATE:
12/08/23

DRAWING
SITE DETAILS

C211

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, SUITE 105
BRENTWOOD, TENNESSEE 37027
615.370.7964 OFFICE
615.370.1273 FAX
STATE OF TENNESSEE
PROFESSIONAL ENGINEER
LICENSE # 104476
CURTIS P. INGRAM JR.

CLAD CMU BLOCK WITH BRICK. MATCH EXTERIOR BRICK USED ON THE BUILDING. COORDINATE WITH ARCHITECTURAL.



NOTES:

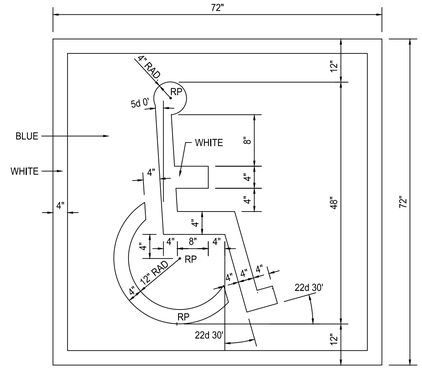
1. MATERIALS, CONSTRUCTION AND QUANTITY CONTROL OF MASONRY SHALL BE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE (IBC).
2. MATERIALS USED SHOULD BE CONSISTENT WITH THOSE USED IN THE CONSTRUCTION OF AND ARCHITECTURAL STYLE OF THE PRINCIPAL BUILDING. SHALL BE COMPLIANT WITH THE ZONING ORDINANCE AND ALL OTHER APPLICABLE REGULATIONS.

ADD#1

3. CONCRETE SLAB: MONOLITHIC, MIN. 7" THICKNESS W/IMBEDDED 6"X6" / 10X10 WELDED WIRE FABRIC (W.W.F.), CLASS A 3000 P.S.I. CONCRETE FILLED CELLS: WITH 1-#5 VERTICAL REBAR TIED TO FOOTER STEEL AT EACH CORNER AND EVERY 4' O.C.
4. [illegible]
5. ELEMENTS OF THIS DETAIL MAY BE ALTERED AND APPROVED BY THE CITY ENGINEER

CITY OF COLUMBIA TENNESSEE	CITY OF COLUMBIA DEVELOPMENT SERVICES DEPARTMENT ENGINEERING DIVISION STANDARD DETAILS	DUMPSTER PAD AND ENCLOSURE (NTS)	DATE 6/9/2022 MD-01

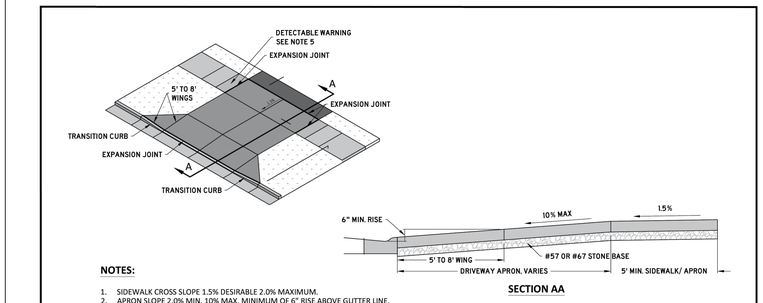
14



NOTES:
1. RP = RADIUS POINT
2. PROVIDE PAINT COLOR IN ACCORDANCE WITH LOCAL REQUIREMENTS. (TYPICALLY WHITE SYMBOL ON BLUE SQUARE BACKGROUND WITH 4" WHITE BORDER)

ACCESSIBLE SYMBOL-PAINTED
(NOT TO SCALE)

12

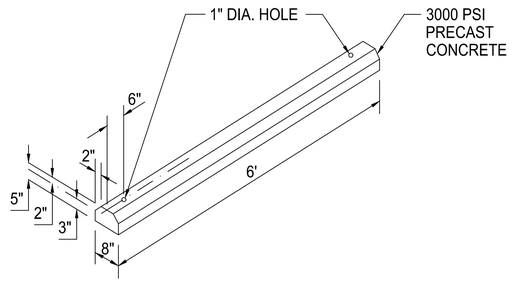


NOTES:

1. SIDEWALK CROSS SLOPE 1.5% DESIRABLE 2.0% MAXIMUM.
2. APRON SLOPE 2.0% MIN. 10% MAX. MINIMUM OF 6" RISE ABOVE GUTTER LINE.
3. 4" MIN. THICK #57 OR # 67 STONE BASE
4. CLASS A 3000 PSI CONCRETE WITH FIBER REINFORCEMENT
   4.1. 6" MIN. THICKNESS RESIDENTIAL.
   4.2. 8" MIN. THICKNESS COMMERCIAL, MULTI-FAMILY, AND MIXED-USE.
5. EXPANSION JOINTS SHALL BE AS FOLLOWS:
   5.1. 1/2 INCH THICK.
   5.2. RUBBERIZED EXPANSION JOINT FILLER (AASHTO M153, TYPE 1).
   5.3. POLYPROPYLENE FOAM JOINT FILLER (ASTM D8139).
6. DETECTABLE WARNINGS WHERE DRIVEWAY IS STOP CONTROLLED.
7. ELEMENTS OF THIS DETAIL MAY BE ALTERED AND APPROVED BY THE CITY ENGINEER

CITY OF COLUMBIA TENNESSEE	CITY OF COLUMBIA DEVELOPMENT SERVICES DEPARTMENT ENGINEERING DIVISION STANDARD DETAILS	DRIVEWAY APRON (NTS)	DATE 6/9/2022 SD-12

15



REQUIRES 2 - #4 X 2'-0" STEEL BAR STAKES FOR EACH CURB SECTION. CURB REINFORCED W/ 2 #3 REBARS. LOCATE PARKING CURB 3' FROM FACE OF SIDEWALK HEADER OR EDGE OF PAVEMENT.

WHEEL STOP
(NOT TO SCALE)

13

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BRENTWOOD, TN 37027
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Old Glory Restaurant

Columbia, TN



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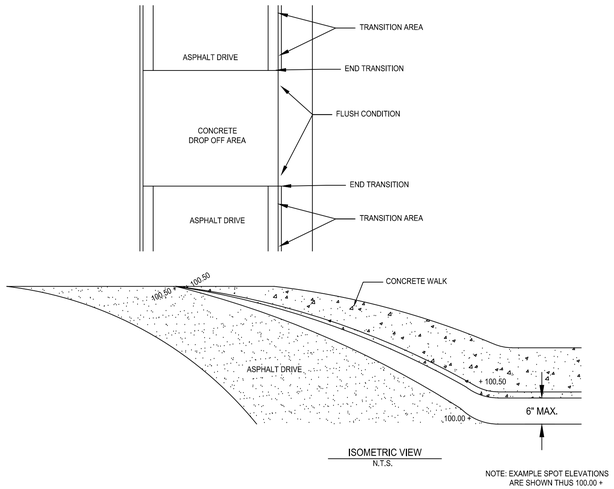
DATE:
12/08/23

DRAWING
SITE DETAILS

C212

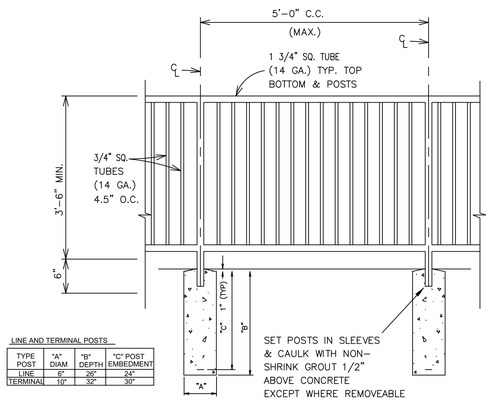
INGRAM CIVIL ENGINEERING GROUP, LLC
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CURB TRANSITION
(NOT TO SCALE)

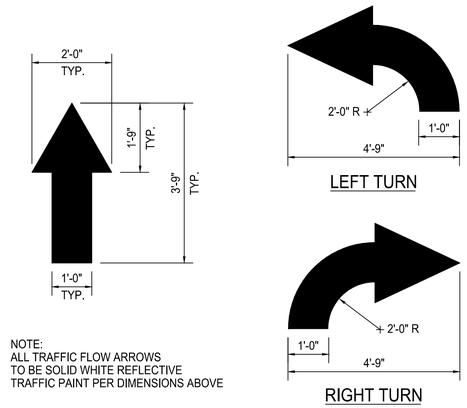
1. STEEL PIPE SHALL BE IN CONFORMANCE WITH ASTM A-53, TYPE E OR S, GRADE A OR B.
2. FITTING SHALL BE USED OR JOINTS SHALL BE WELDED.
3. RAILS SHALL BE STANDARD WEIGHT AND POSTS SHALL BE EXTRA STRONG STEEL PIPE.
4. HANDRAILS TO BE SHOP GALVANIZED OR PAINTED WITH 4 MILLS EACH OF EPOXY PRIMER AND POLYANIDE TOP COAT.



LINE AND TERMINAL POSTS

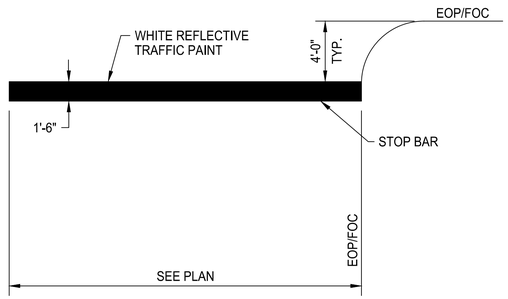
TYPE POST	"A" DIAM	"B" DEPTH	"C" POST EMBEDMENT
LINE	6"	26"	24"
TERMINAL	10"	32"	30"

PEDESTRIAN GUARDRAIL INSTALLED IN GRASS
(NOT TO SCALE)

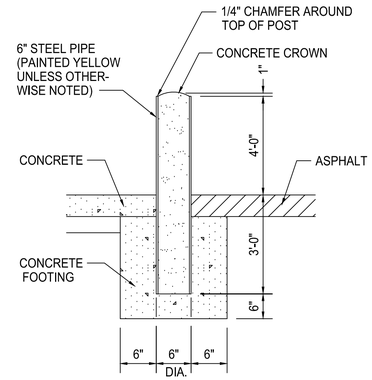


NOTE:
ALL TRAFFIC FLOW ARROWS
TO BE SOLID WHITE REFLECTIVE
TRAFFIC PAINT PER DIMENSIONS ABOVE

TRAFFIC FLOW ARROW
(NOT TO SCALE)

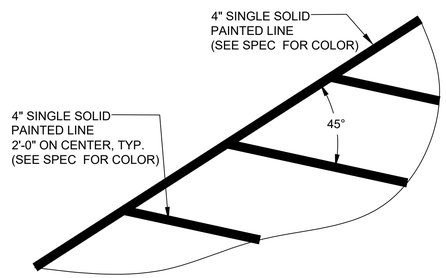


STOP BAR
(NOT TO SCALE)



BOLLARD SHALL BE PAINTED YELLOW WITH EXTERIOR ENAMEL PAINT (2 COATS BEFORE INSTALLATION; 1 COAT AFTER INSTALLATION) INSTALL 4" WIDE REFLECTIVE TAPE AT TOP.

PIPE BOLLARD
(NOT TO SCALE)



NOTE: ALL DIMENSIONS ARE TO ℄ OF STRIPE UNLESS OTHERWISE INDICATED COORDINATE WITH SITE PLAN

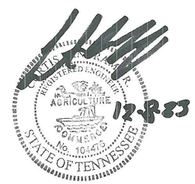
STRIPING (TYP)
(NOT TO SCALE)

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Page 164 of 256 • Lot 0001 - Tradewind Dr



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- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

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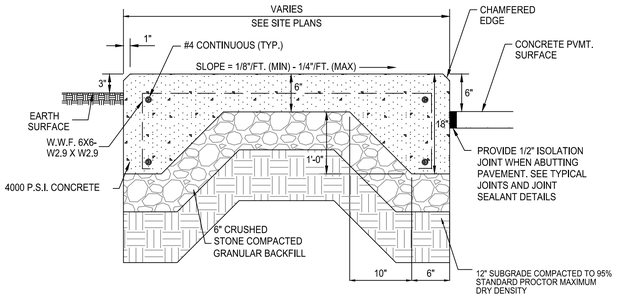
DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
SITE DETAILS

C213

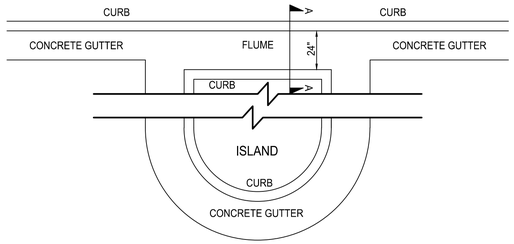
ICE GROUP
INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, SUITE 105
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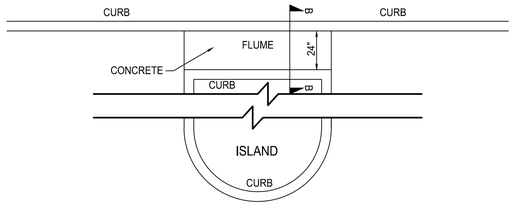
COORDINATE WITH TECHNICAL SPECIFICATIONS AND GEOTECHNICAL REPORT.

CONCRETE UTILITY PAD
(NOT TO SCALE)

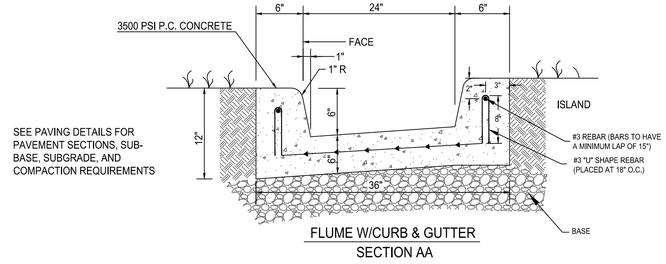
NOTE: A GEOTECH REPORT WITH PAVEMENT RECOMENDATIONS WAS NOT PROVIDED TO THE ENGINEER FOR DESIGN PURPOSES, SECTIONS ARE BASED ON STANDARD ENGINEERING PRACTICE.



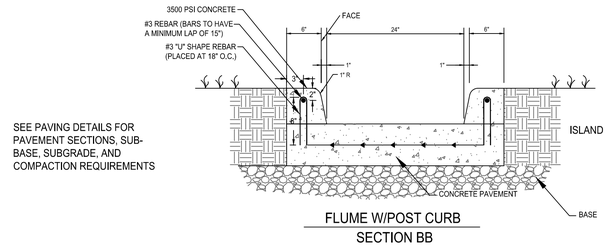
FLUME W/CURB & GUTTER
PLAN



FLUME W/POST CURB
PLAN

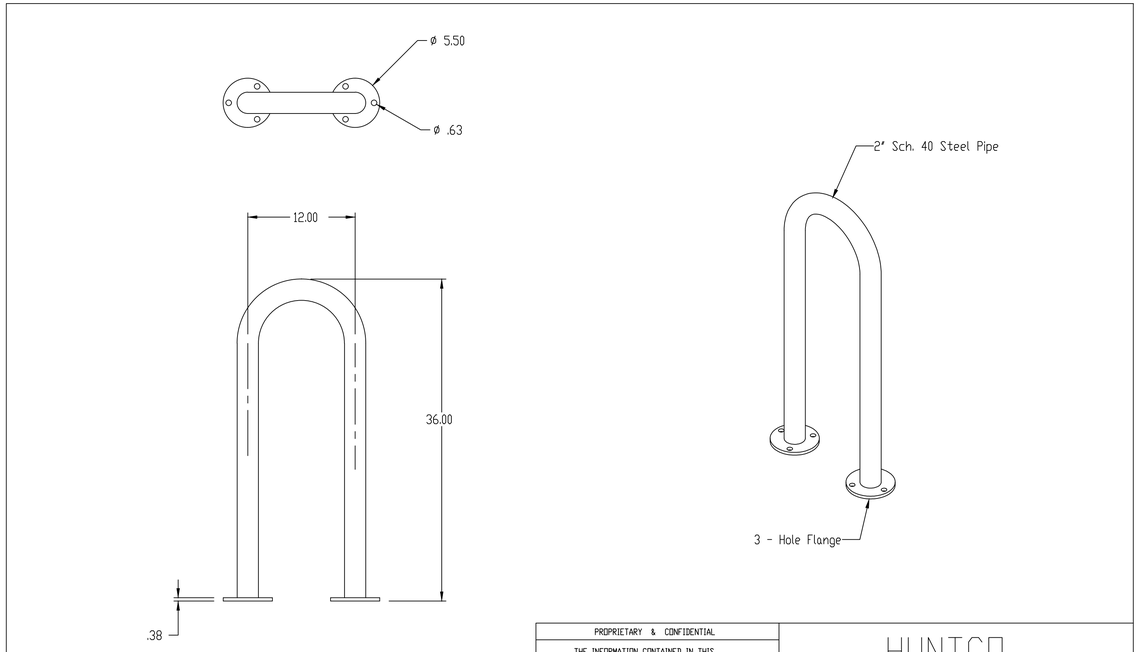


FLUME W/CURB & GUTTER
SECTION AA

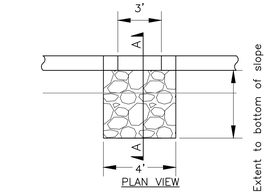


FLUME W/POST CURB
SECTION BB

LANDSCAPE ISLAND FLUME
(NOT TO SCALE)



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CONCRETE CURB CUT 3 FT
(NOT TO SCALE)

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, SUITE 105
BRENTWOOD, TENNESSEE 37027
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Old Glory Restaurant

Columbia, TN

Page 165 of 256 • Lot 0001 - Tradewind Dr

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
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- ▩ Construction

REVISIONS

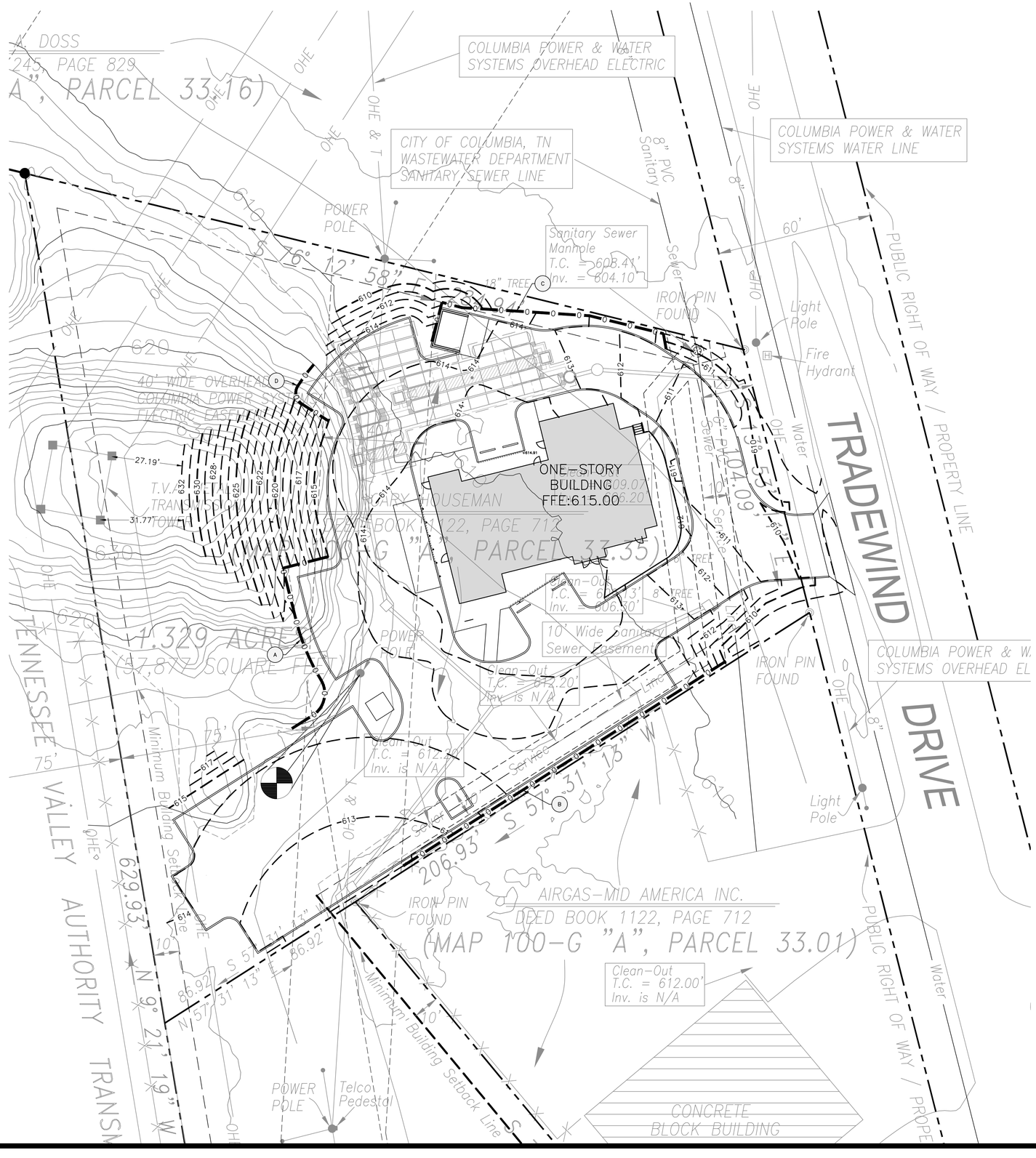
PROJECT NUMBER:
118723

DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
SITE DETAILS

C214



GENERAL GRADING NOTES

1. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.

2. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND SIX INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS (SEE LANDSCAPE PLAN FOR SEED MIX AND PROPER APPLICATION RATE AND AREAS TO BE SODDED). ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATIONS OF ANY UNDERGROUND UTILITIES. THE CONTRACTOR IS TO VERIFY LOCATION OF OVERHEAD UTILITIES. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

4. THE CONTRACTOR IS TO CONTROL TRAFFIC FLOW DURING TIME OF CONSTRUCTION. ANY AND ALL TRAFFIC CONTROL IMPLEMENTED DURING THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

5. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY OF COLUMBIA/MAURY COUNTY AND THE TENNESSEE D.O.T. REGULATIONS.

6. CONTRACTOR TO COORDINATE LOCATION OF TOP SOIL STOCKPILE AREA WITH OWNER. SILT FENCE SHALL BE PLACED AROUND PERIMETER OF THE STOCKPILE FOR EROSION AND SEDIMENT CONTROL.

7. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.

8. ALL LANDSCAPED SLOPES SHALL BE THREE FEET (3') HORIZONTAL TO ONE FOOT (1') VERTICAL OR FLATTER.

9. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO EARTHWORK AND DRAINAGE. SHOULD CONTRACTOR HAVE QUESTIONS WITH THIS INTENT, HE SHALL CONTACT THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

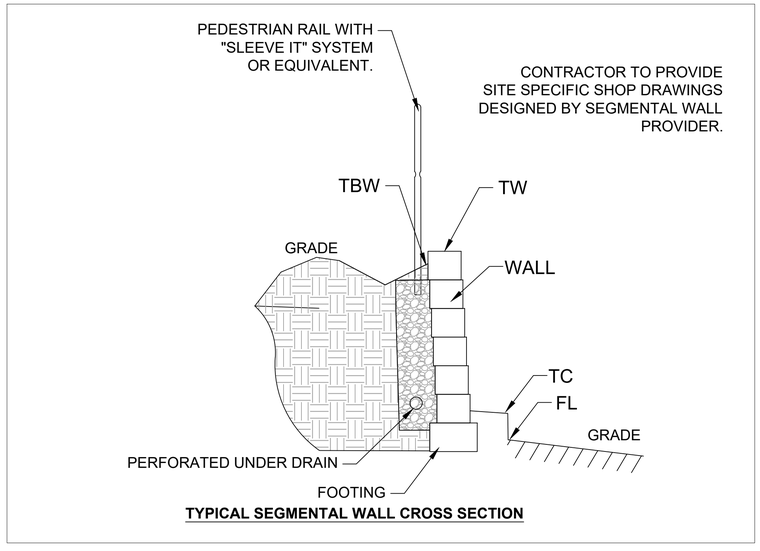
10. SLOPE GROUND AWAY FROM BUILDING AT TWO PERCENT (2%) MINIMUM.

11. WRITTEN DIMENSIONS PREVAIL. DO NOT SCALE THESE DRAWINGS. PRINTED DIMENSIONS WHICH ARE OMITTED OR IN CONFLICT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW AND RESPONSE. DIMENSIONS ARE FROM FACE OF CURB / EDGE OF PAVEMENT AND FACE OF BUILDING, UNLESS NOTED OTHERWISE.

12. SEGMENTAL WALL DESIGNER TO PROVIDE SITE SPECIFIC SHOP DRAWINGS FOR ALL RETAINING WALLS FOR CIVIL ENGINEER REVIEW PRIOR TO ORDERING WALL SYSTEM.

GRADING NOTES

A	89 LF OF SEGMENTAL RETAINING WALL.
B	147 LF OF SEGMENTAL RETAINING WALL.
C	108 LF OF SEGMENTAL RETAINING WALL.
D	31 LF OF SEGMENTAL RETAINING WALL.



TYPICAL SEGMENTAL WALL CROSS SECTION

GRADING PLAN

GRAPHIC SCALE 20 0 20 40

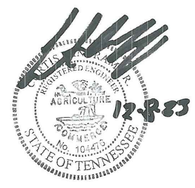
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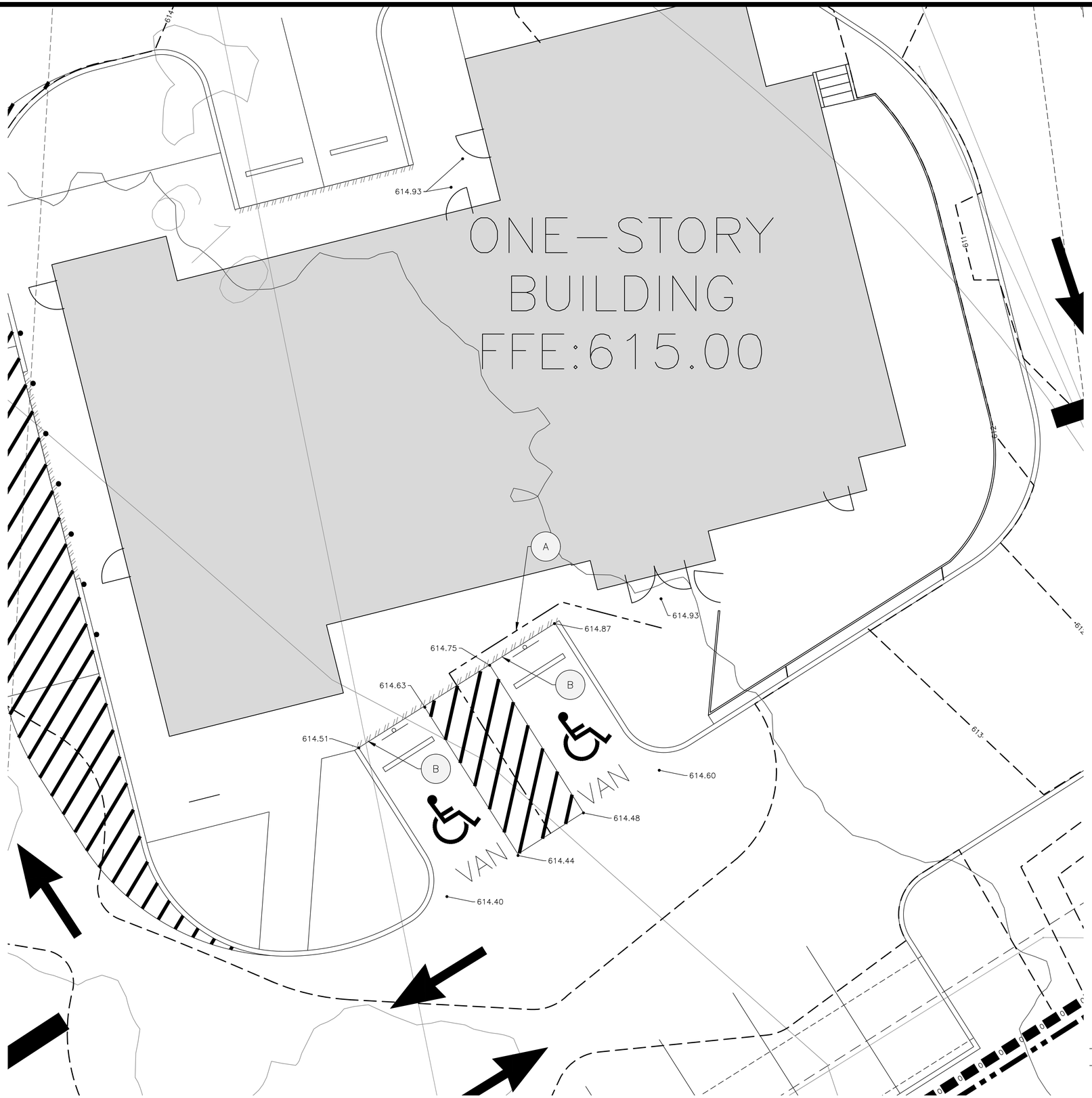
PROJECT NUMBER: 118723

DRAWN BY: SAS

DATE: 12/08/23

DRAWING GRADING PLAN

C300



LEGEND: ACCESSIBILITY

- ACCESSIBILITY ROUTE
- FLUSH CONDITION

ACCESSIBILITY NOTES

A	ACCESSIBILITY ROUTE
B	FLUSH CONDITION

ACCESSIBILITY DETAILS

1	-

ACCESSIBILITY ENLARGEMENT

GRAPHIC SCALE 5 0 5 10

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STATE OF TENNESSEE
CURTIS P. INGRAM JR.
REGISTERED ENGINEER
AGRICULTURE
12-8-23

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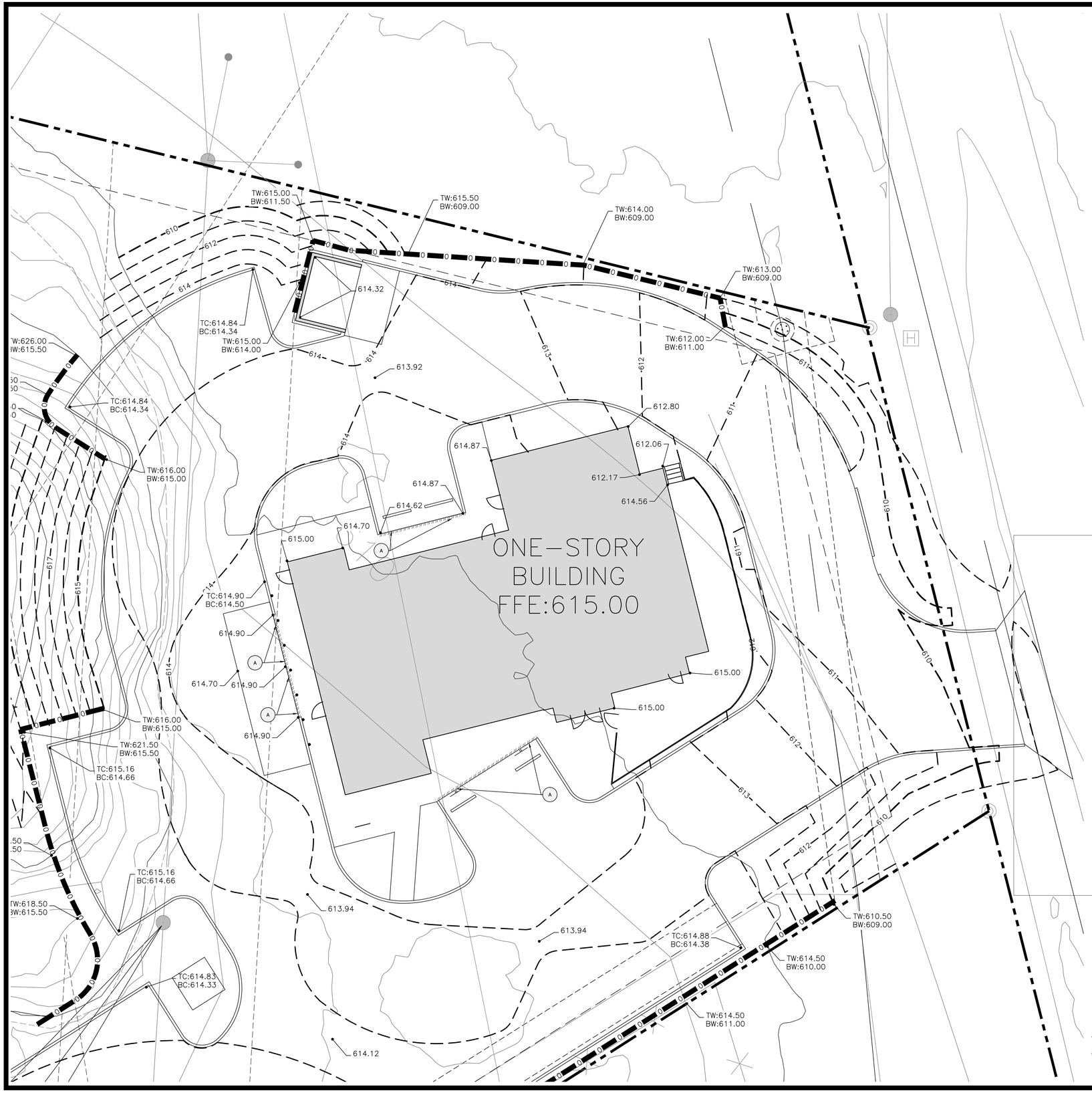
DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
ACCESSIBILITY
ENLARGEMENT

C301

Page 167 of 256 • Lot 0001 - Tradewind Dr



GENERAL GRADING NOTES

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7. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.

8. ALL LANDSCAPED SLOPES SHALL BE THREE FEET (3') HORIZONTAL TO ONE FOOT (1') VERTICAL OR FLATTER.

9. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO EARTHWORK AND DRAINAGE. SHOULD CONTRACTOR HAVE QUESTIONS WITH THIS INTENT, HE SHALL CONTACT THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

10. SLOPE GROUND AWAY FROM BUILDING AT TWO PERCENT (2%) MINIMUM.

11. WRITTEN DIMENSIONS PREVAIL. DO NOT SCALE THESE DRAWINGS. PRINTED DIMENSIONS WHICH ARE OMITTED OR IN CONFLICT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW AND RESPONSE. DIMENSIONS ARE FROM FACE OF CURB / EDGE OF PAVEMENT AND FACE OF BUILDING, UNLESS NOTED OTHERWISE.

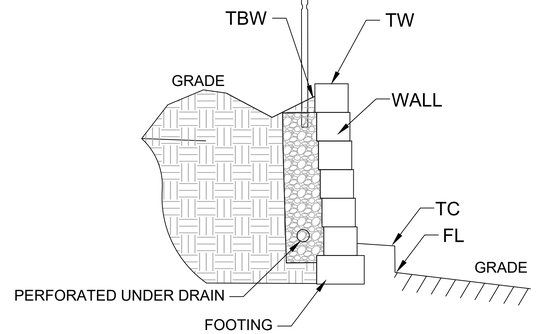
12. SEGMENTAL WALL DESIGNER TO PROVIDE SITE SPECIFIC SHOP DRAWINGS FOR ALL RETAINING WALLS FOR CIVIL ENGINEER REVIEW PRIOR TO ORDERING WALL SYSTEM.

GRADING NOTES

A	FLUSH CONDITION.

PEDESTRIAN RAIL WITH "SLEEVE IT" SYSTEM OR EQUIVALENT.

CONTRACTOR TO PROVIDE SITE SPECIFIC SHOP DRAWINGS DESIGNED BY SEGMENTAL WALL PROVIDER.



TYPICAL SEGMENTAL WALL CROSS SECTION

SPOT SHOT ENLARGEMENT PLAN

GRAPHIC SCALE 10 0 10 20

INGRAM CIVIL ENGINEERING GROUP, LLC
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ISSUED FOR

- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS

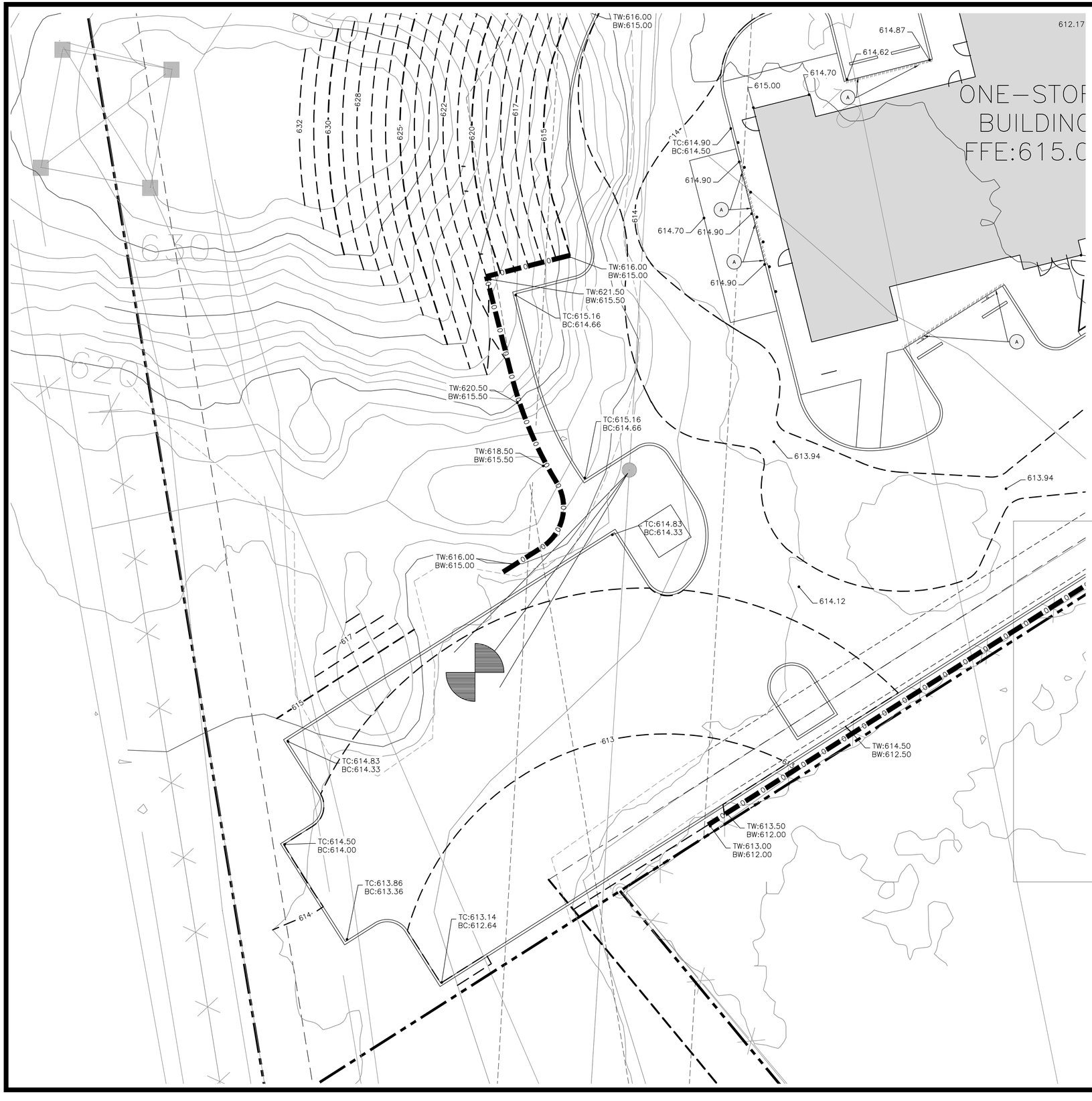
PROJECT NUMBER: 118723

DRAWN BY: SAS

DATE: 12/08/23

DRAWING SPOT SHOT ENLARGEMENT PLAN

C302



GENERAL GRADING NOTES

1. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.

2. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND SIX INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS (SEE LANDSCAPE PLAN FOR SEED MIX AND PROPER APPLICATION RATE AND AREAS TO BE SODDED). ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATIONS OF ANY UNDERGROUND UTILITIES. THE CONTRACTOR IS TO VERIFY LOCATION OF OVERHEAD UTILITIES. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

4. THE CONTRACTOR IS TO CONTROL TRAFFIC FLOW DURING TIME OF CONSTRUCTION. ANY AND ALL TRAFFIC CONTROL IMPLEMENTED DURING THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

5. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY OF COLUMBIA/MAURY COUNTY AND THE TENNESSEE D.O.T. REGULATIONS.

6. CONTRACTOR TO COORDINATE LOCATION OF TOP SOIL STOCKPILE AREA WITH OWNER. SILT FENCE SHALL BE PLACED AROUND PERIMETER OF THE STOCKPILE FOR EROSION AND SEDIMENT CONTROL.

7. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.

8. ALL LANDSCAPED SLOPES SHALL BE THREE FEET (3') HORIZONTAL TO ONE FOOT (1') VERTICAL OR FLATTER.

9. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO EARTHWORK AND DRAINAGE. SHOULD CONTRACTOR HAVE QUESTIONS WITH THIS INTENT, HE SHALL CONTACT THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

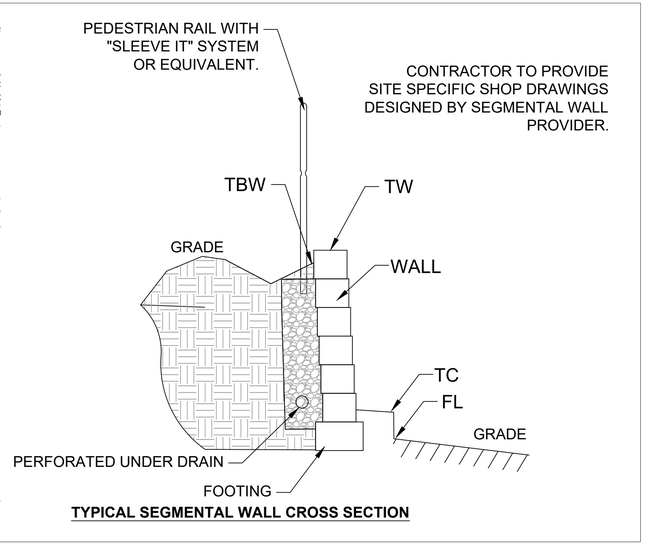
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12. SEGMENTAL WALL DESIGNER TO PROVIDE SITE SPECIFIC SHOP DRAWINGS FOR ALL RETAINING WALLS FOR CIVIL ENGINEER REVIEW PRIOR TO ORDERING WALL SYSTEM.

GRADING NOTES

A	FLUSH CONDITION.



TYPICAL SEGMENTAL WALL CROSS SECTION

SPOT SHOT ENLARGEMENT PLAN

GRAPHIC SCALE 10 0 10 20

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Old Glory Restaurant

Columbia, TN

CURTIS P. INGRAM JR. REGISTERED ENGINEER AGRICULTURE No. 104476 STATE OF TENNESSEE 12-8-23

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ▨ Construction

REVISIONS

PROJECT NUMBER:
118723

DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
SPOT SHOT
ENLARGEMENT PLAN

C303

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PRE-DEVELOPED DRAINAGE AREAS

	Impervious		Pervious		Total	
	Square Feet	Acres	Square Feet	Acres	Square Feet	Acres
Area 1	0	0.00	34,719	0.80	34,719	0.80
Area 2	0	0.00	19,939	0.46	19,939	0.46
Area 3	0	0.00	3,182	0.07	3,182	0.07
Total	0	0.00	57,840	1.33	57,840	1.33

PRE-DEVELOPED DRAINAGE MAP

20 0 20 40
GRAPHIC SCALE

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DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
PRE-DEVELOPMENT
DRAINAGE MAP

C400



POST-DEVELOPED DRAINAGE AREAS

	Impervious		Pervious		Total	
	Square Feet	Acres	Square Feet	Acres	Square Feet	Acres
Area 1	6,475	0.15	9,319	0.21	15,794	0.36
Area 2	1,426	0.03	3,549	0.08	4,974	0.11
Area 3	2,581	0.06	507	0.01	3,088	0.07
Area 4	2,530	0.06	547	0.01	3,077	0.07
Area 5	2,388	0.05	0	0.00	2,388	0.05
Area 6	3,778	0.09	0	0.00	3,778	0.09
Area 7	2,253	0.05	361	0.01	2,614	0.06
Area 8	1,453	0.03	99	0.00	1,551	0.04
Area 9	0	0.00	3,182	0.07	3,182	0.07
Area 10	4,275	0.10	1,206	0.03	5,481	0.13
Area 11	0	0.00	9,094	0.21	9,094	0.21
Area 12	1,637	0.04	1,191	0.03	2,828	0.06
Total	28,795	0.66	29,054	0.67	57,849	1.33

POST-DEVELOPED DRAINAGE MAP

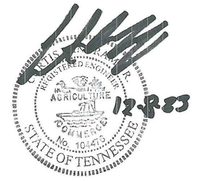
20 0 20 40
GRAPHIC SCALE

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12/08/23

DRAWING
POST-DEVELOPMENT
DRAINAGE MAP

C401

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STRUCTURE TABLE				
STRUCTURE	RIM ELEV.	INVERT ELEV.	TYPE	NOTE
AI1	613.75	609.92		
AI2	613.85	609.64		
AI3	613.80	609.38		
AI4	613.80	609.38		
AI5	613.40	609.38		
CI1	612.50	610.37		
CI2	612.50	610.37		
EW1	610.57	608.57		
OS1	613.05	608.88		
WQU1	612.50	608.83		

PIPE SCHEDULE					
PIPE	LENGTH (FT.)	SIZE (IN.)	TYPE	SLOPE (%)	NOTE
P1	52	12	RCP	0.50%	Concrete Pipe
P2	11	12	RCP	0.45%	Concrete Pipe
P3	57	12	RCP	0.46%	Concrete Pipe
P4	56	12	RCP	0.50%	Concrete Pipe
P5	90	12	RCP	0.50%	Concrete Pipe
P6	90	12	RCP	0.50%	Concrete Pipe

CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL STORM WATER ELEMENTS AT PROJECT COMPLETION IN ELECTRONIC AND HARD COPY FORMATS.

- **Underground detention and water quality infrastructure**
- **Above ground detention and water quality infrastructure**
- **Bioretention Ponds**
- **Public storm sewer infrastructure**
- **Cut & fill in the floodplain**
- **Sink hole alterations**

GENERAL DRAINAGE NOTES

1. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL CROSSINGS AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION. THE ENGINEER WILL BE HELD HARMLESS IN THE EVENT THE ENGINEER IS NOT NOTIFIED OF DESIGN CONFLICTS.

2. CONTRACTOR HAS THE OPTION TO BID THE FOLLOWING MATERIAL FOR THE STORM SEWER SYSTEM, EXCEPT WHERE OTHERWISE NOTED: RCP OR SIPP, AS INDICATED ON THIS PLAN, WHERE THE WORD PIPE IS USED. ALL PIPES SHALL HAVE A MAXIMUM ROUGHNESS COEFFICIENT ("N") OF .013 AND SHALL MEET OR EXCEED THE PIPE MANUFACTURERS REQUIREMENTS FOR MINIMUM AND MAXIMUM COVER. CONTRACTOR SHALL REFER TO THE SITE WORK SPECIFICATIONS SECTION FOR STORM SEWER SYSTEMS FOR ACCEPTABLE TYPE AND MATERIAL.

3. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY LOCATIONS OF ANY UNDERGROUND UTILITIES. THE CONTRACTOR IS TO VERIFY LOCATION OF OVERHEAD UTILITIES. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

4. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON OR WITHIN THE SPECIFICATIONS ALL STORM DRAIN PIPES ARE MEASURED FROM CENTER OF STRUCTURES AND ENDS OF FLARED END SECTIONS.

5. THE CONTRACTOR IS TO CONTROL TRAFFIC FLOW DURING TIME OF CONSTRUCTION. ANY AND ALL TRAFFIC CONTROL IMPLEMENTED DURING THIS PROJECT SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

6. ALL WORK WITHIN PUBLIC RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY OF COLUMBIA/MUARY COUNTY AND THE TENNESSEE D.O.T. REGULATIONS.

7. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.

8. ALL NEW STRUCTURES SHALL HAVE ANY SEDIMENT REMOVED PRIOR TO ACCEPTANCE.

9. CONTOUR LINES AND SPOT ELEVATIONS ARE THE RESULT OF A DETAILED ENGINEERING DESIGN AND REFLECT A PLANNED INTENT WITH REGARD TO EARTHWORK AND DRAINAGE. SHOULD CONTRACTOR HAVE QUESTIONS WITH THIS INTENT, HE SHALL CONTACT THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK.

10. ADJUST ALL CASTINGS TO MATCH FINISH GRADES.

11. WRITTEN DIMENSIONS PREVAIL. DO NOT SCALE THESE DRAWINGS. PRINTED DIMENSIONS WHICH ARE OMITTED OR IN CONFLICT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW AND RESPONSE. DIMENSIONS ARE FROM FACE OF CURB / EDGE OF PAVEMENT AND FACE OF BUILDING, UNLESS NOTED OTHERWISE.

12. CONTRACTOR SHALL PROVIDE AN AS-BUILT SURVEY OF ALL STORM WATER ELEMENTS AT PROJECT COMPLETION IN ELECTRONIC AND HARD COPY FORMATS.

DRAINAGE NOTES

A 5,700 CY OF ADS SC 720 CHAMBERS.

DRAINAGE DETAILS

1 TRENCH AND BEDDING
2 AREA DRAIN
3 CURB INLET
4 ENDWALL
5 OVERFLOW STRUCTURE
6 UNDERGROUND DETENTION
7 WATER QUALITY UNIT

LEGEND: DRAINAGE

PROPOSED CATCH BASIN
P# 1 PROPOSED STORM LINE
WINGED ENDWALL/HEADWALL

DRAINAGE PLAN

20 0 20 40
GRAPHIC SCALE

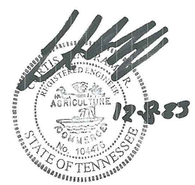
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REVISIONS

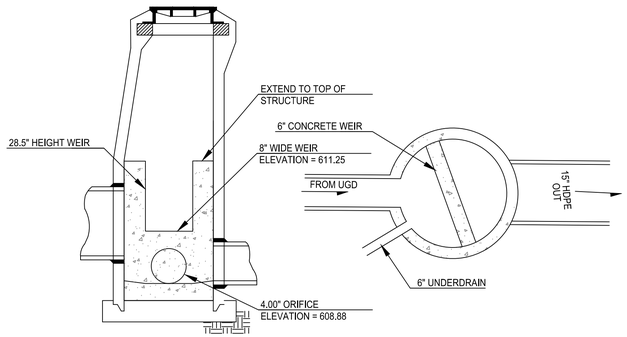
PROJECT NUMBER:
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12/08/23

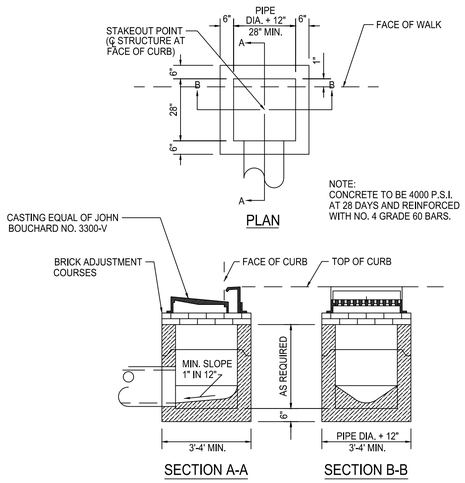
DRAWING
DRAINAGE
PLAN

C402



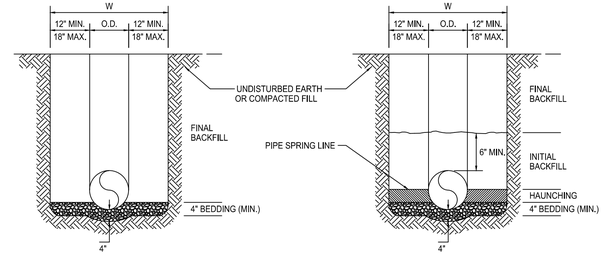
UNDERGROUND DETENTION OUTLET STRUCTURE
(NOT TO SCALE)

OS 5



CATCH BASIN-SINGLE PRECAST CURB INLET
(NOT TO SCALE)

CI 3



RIGID PIPE
(NOT TO SCALE)

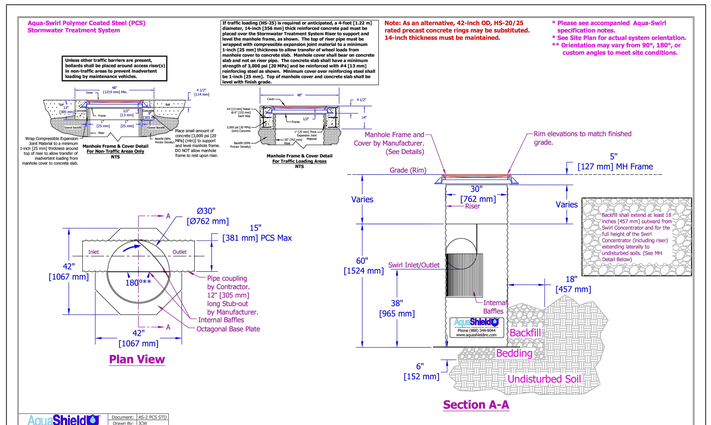
FLEXIBLE PIPE
(NOT TO SCALE)

GENERAL NOTES:

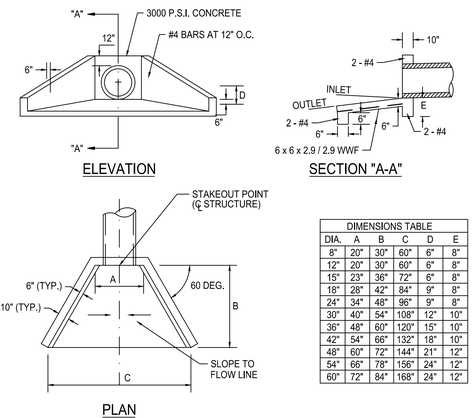
1. BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION.)
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3 AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS SHALL BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS.)

STORM SEWER TRENCH AND BEDDING
(NOT TO SCALE)

TB 1



WQU 7

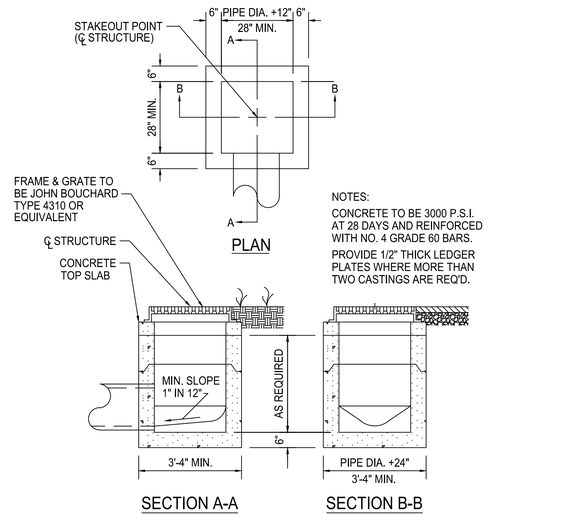


DIMENSIONS TABLE					
DIA.	A	B	C	D	E
8"	20"	30"	60"	6"	8"
12"	20"	30"	60"	6"	8"
15"	23"	36"	72"	6"	8"
18"	28"	42"	84"	9"	8"
24"	34"	48"	96"	9"	8"
30"	40"	54"	108"	12"	10"
36"	48"	60"	120"	15"	10"
42"	54"	66"	132"	18"	10"
48"	60"	72"	144"	21"	12"
54"	66"	78"	156"	24"	12"
60"	72"	84"	168"	24"	12"

NOTE: ALL EXPOSED EDGES OF CONCRETE SHALL BE CAMFERED ONE INCH.

WINGED ENDWALL/HEADWALL
(NOT TO SCALE)

EW 4



CATCH BASIN-SINGLE PRECAST AREA INLET
(NOT TO SCALE)

AI 2

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REVISIONS

PROJECT NUMBER: 118723

DRAWN BY: SAS

DATE: 12/08/23

DRAWING DRAINAGE DETAILS

C410

CONCEPTUAL LAYOUT

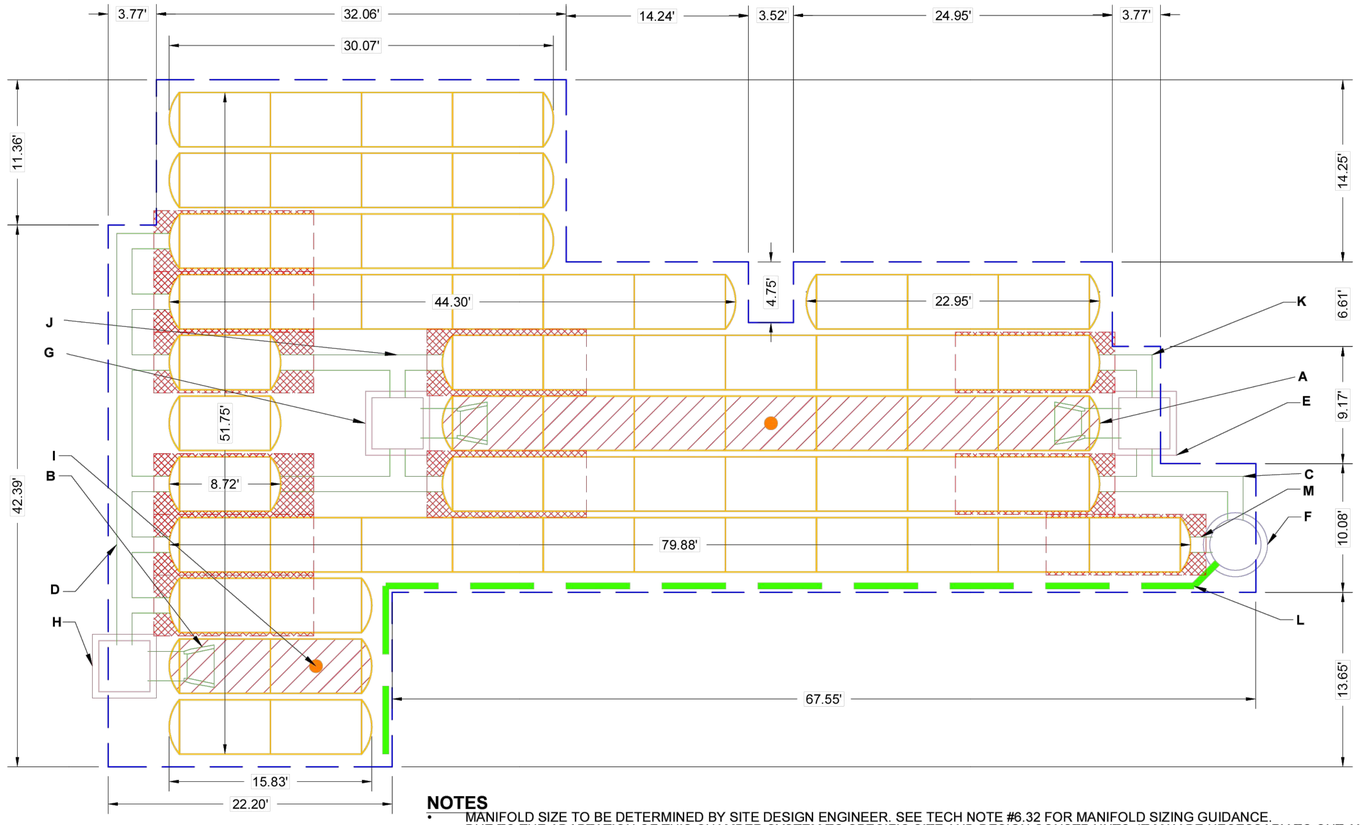
62	STORMTECH SC-740 CHAMBERS
30	STORMTECH SC-740 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	% STONE VOID
5,814	**INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)**
2,932	SYSTEM AREA (ft²)
296	SYSTEM PERIMETER (ft)

CONCEPTUAL ELEVATIONS:

MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	619.88
MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	613.88
MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	613.38
MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	613.38
MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	613.38
TOP OF STONE:	612.38
TOP OF SC-740 CHAMBER:	611.88
12" x 12" TOP MANIFOLD INVERT:	610.42
12" TOP CONNECTION INVERT:	610.42
12" BOTTOM CONNECTION INVERT:	609.48
24" ISOLATOR ROW PLUS INVERT:	609.39
24" ISOLATOR ROW PLUS INVERT:	609.39
24" ISOLATOR ROW PLUS INVERT:	609.39
BOTTOM OF SC-740 CHAMBER:	609.38
BOTTOM OF STONE:	608.88

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED EZ END CAP	A	24" BOTTOM PREFABRICATED EZ END CAP, PART#: SC740ECEZ / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	0.10"	
FLAMP	B	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: SC74024RAMP (TYP 3 PLACES)		
MANIFOLD	C	12" x 12" TOP MANIFOLD, ADS N-12	12.50"	
MANIFOLD	D	12" x 12" TOP MANIFOLD, ADS N-12	12.50"	
CONCRETE STRUCTURE A15	E	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		6.9 CFS IN
CONCRETE STRUCTURE OS1	F	OCS (DESIGN BY ENGINEER / PROVIDED BY OTHERS) (RELOCATED)		4.0 CFS OUT
CONCRETE STRUCTURE A14	G	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		4.6 CFS IN
CONCRETE STRUCTURE A13	H	(DESIGN BY ENGINEER / PROVIDED BY OTHERS)		5.7 CFS IN
INSPECTION PORT	I	4" SEE DETAIL (TYP 2 PLACES)		
MANIFOLD	J	12" x 12" TOP MANIFOLD, ADS N-12 (TYP 2 PLACES)	12.50"	
CONNECTION	K	12" TOP CONNECTION, ADS N-12	12.50"	
UNDERDRAIN	L	6" ADS N-12 DUAL WALL PERFORATED UNDERDRAIN		
CONNECTION	M	12" BOTTOM CONNECTION, ADS N-12	1.20"	



ISOLATOR ROW PLUS
(SEE DETAIL/TYP 2 PLACES)

PLACE MINIMUM 12.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECH NOTE #6.32 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPE TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THIS CHAMBER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE RETAINING WALL AND CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON THE RETAINING WALL'S INTEGRITY.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE SLOPE AND CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON THE SLOPE'S INTEGRITY.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE BUILDING/STRUCTURE. NO FOUNDATION LOADS SHALL BE TRANSMITTED TO THE CHAMBERS.
- THE SITE DESIGN ENGINEER MUST CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON BEARING CAPACITY OF SOILS AND SEEPAGE INTO BASEMENTS.
- **NOT FOR CONSTRUCTION:** THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.

OLD GLORY RESTAURANT
COLUMBIA, TN, USA
DATE: 11/16/23 | DRAWN: AMC | CHECKED: ---
PROJECT #: S384441

DATE	DRW	CHK	DESCRIPTION

StormTech®
Chamber System
888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

ADS

20 10 0

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SHEET
2 OF 5

UGD
6

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Old Glory Restaurant

Columbia, TN

12-8-23

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ▣ Construction

REVISIONS

PROJECT NUMBER:
118723

DRAWN BY:
SAS

DATE:
12/08/23

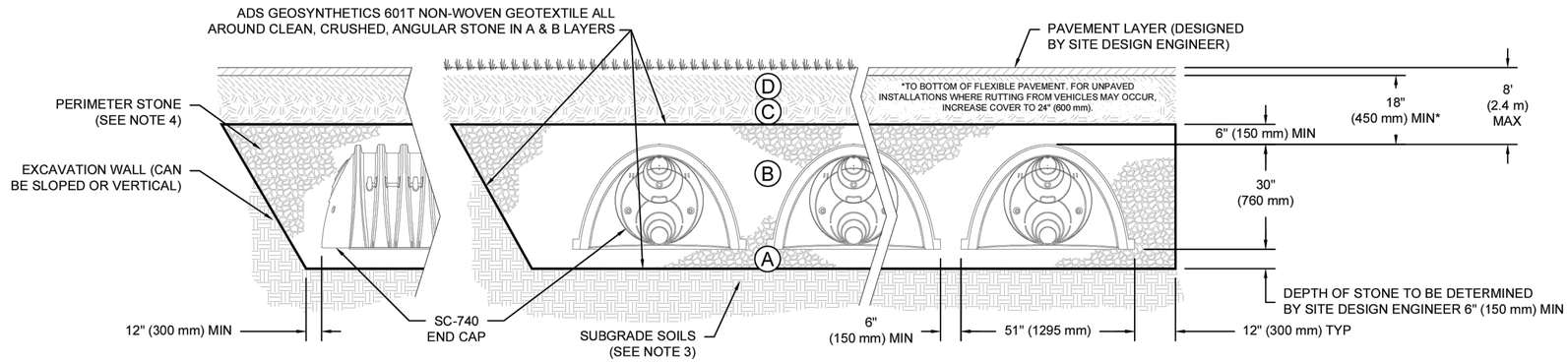
DRAWING
DRAINAGE
DETAILS

C411

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

MATERIAL LOCATION		DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[1] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



NOTES:

1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 550 LBS/FT/%. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

OLD GLORY RESTAURANT
COLUMBIA, TN, USA
DATE: 11/16/23 | DRAWN: AMC | CHECKED: ---
PROJECT #: S384441

DESCRIPTION	CHK	DRW	DATE

StormTech® Chamber System
888-892-2694 | WWW.STORMTECH.COM

4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

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SHEET
3 OF 5

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Old Glory Restaurant

Columbia, TN

ISSUED FOR
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- ■ Construction

REVISIONS

PROJECT NUMBER: 118723

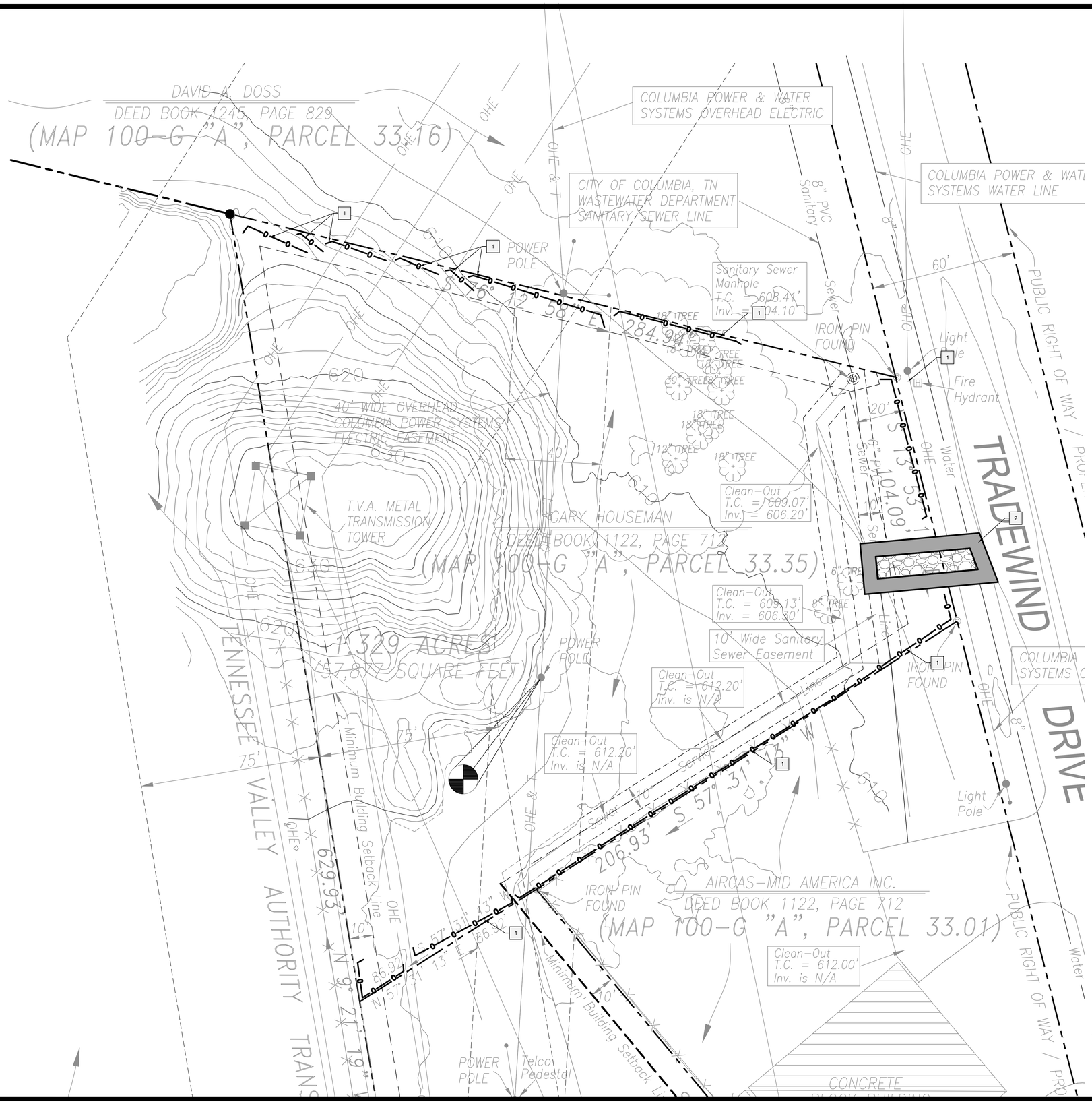
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DRAWING
DRAINAGE DETAILS

C412

Page 175 of 256 • Lot 0001 - Tradewind Dr



GENERAL SWPPP NOTES

1. THE INTENT OF EROSION CONTROL MEASURES INDICATED GRAPHICALLY ON PLANS AND DESCRIBED ELSEWHERE IN THE CONTRACT DOCUMENTS IS TO PROVIDE A BARRIER FOR SILT AND SEDIMENT ON THE PROJECT SITE. THIS REPRESENTATION IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE TEST OF EROSION CONTROL EFFECTIVENESS IS NOT TO BE DETERMINED BY ADHERENCE TO THE REPRESENTATION SET FORTH ON THE DRAWINGS AND SPECIFICATIONS, BUT BY MEETING THE REGULATIONS SET FORTH BY THE AUTHORITY HAVING JURISDICTION OVER WATER QUALITY CONTROL AND OTHER SEDIMENTATION RESTRICTION REQUIREMENTS IN THE REGION OF THE PROPOSED PROJECT.

2. APPROVED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRADING, EXCAVATION, FILLING OR OTHER LAND DISTURBANCE ACTIVITIES, EXCEPT THOSE OPERATIONS NEEDED TO INSTALL SUCH MEASURES.

3. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.

4. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTION. ALL DIMENSIONS AND LOCATIONS OF EROSION CONTROL MEASURES SHALL BE SUBJECT TO ADJUSTMENT AS DEEMED NECESSARY BY ON-SITE INSPECTION.

5. FAILURE TO PROPERLY INSTALL AND MAINTAIN EROSION CONTROL PRACTICES SHALL RESULT IN CONSTRUCTION BEING HALTED.

6. DRAINAGE INLETS SHALL BE PROTECTED BY INLET SEDIMENT FILTER.

7. ANY ACCESS ROUTES TO THE SITE SHALL BE BASED WITH CRUSHED STONE.

8. EROSION CONTROL MEASURES ARE TO BE MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

9. WHENEVER FEASIBLE, NATURAL VEGETATION SHALL BE RETAINED AND PROTECTED. NO TREES ARE TO BE REMOVED AND/OR VEGETATION DISTURBED EXCEPT AS NECESSARY FOR GRADING PURPOSES.

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○ PRE-CON SWPPP NOTES

A -

□ SWPPP DETAILS

1 SEDIMENTATION BARRIER

2 TEMPORARY CONSTRUCTION ENTRANCE

3 INLET PROTECTION (SEE SHEETS C501 AND C502)

4 MATTING AND BLANKETS (SEE SHEETS C501 AND C502)

5 RIP RAP (SEE SHEETS C501 AND C502)

LEGEND: PRE-CON SWPPP

SEDIMENTATION BARRIER

TEMPORARY CONSTRUCTION ENTRANCE

PRE-CON SWPPP

20 0 20 40
GRAPHIC SCALE

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Old Glory Restaurant

Columbia, TN

ISSUED FOR
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- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

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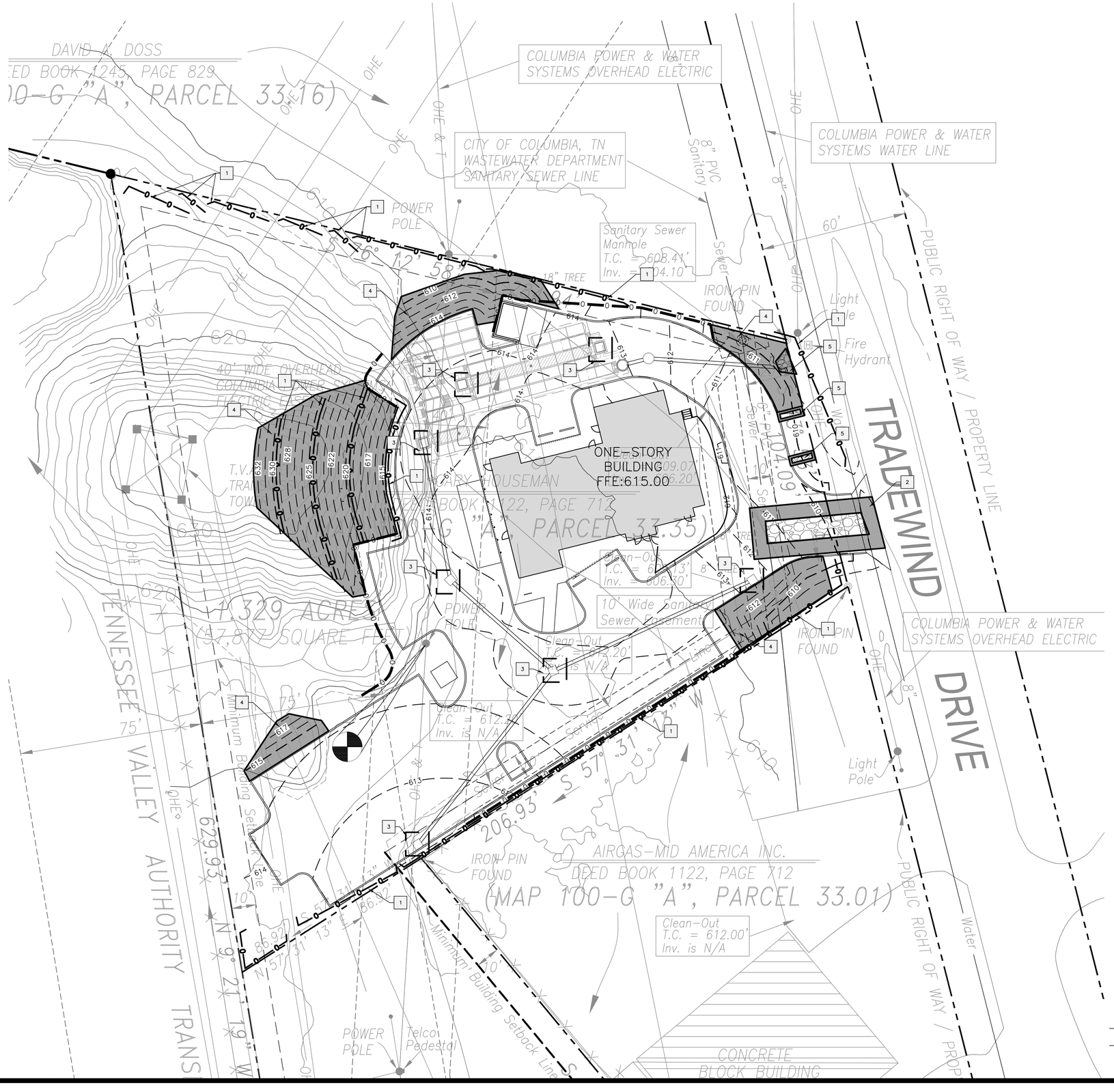
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12/08/23

DRAWING
PRE-CON STORM WATER POLLUTION PREVENTION PLAN

C500

Page 176 of 256 • Lot 0001 - Tradewind Dr



GENERAL SWPPP NOTES

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3. KEEP DUST WITHIN TOLERABLE LIMITS BY SPRINKLING OR OTHER ACCEPTABLE MEANS.

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SWPPP NOTES

A	-

SWPPP DETAILS

1	SEDIMENTATION BARRIER
2	TEMPORARY CONSTRUCTION ENTRANCE
3	INLET PROTECTION
4	MATTING AND BLANKETS
5	RIP RAP

LEGEND: PRE-CON SWPPP

- INLET PROTECTION
- SEDIMENTATION BARRIER
- RIP-RAP OUTLET PROTECTION
- TEMPORARY CONSTRUCTION ENTRANCE
- MATTING AND BLANKETS

INTERMEDIATE SWPPP

20 0 20 40
GRAPHIC SCALE

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AGRICULTURE
ENVIRONMENT
No. 104476
STATE OF TENNESSEE
12-8-23

ISSUED FOR

- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ▨ Construction

REVISIONS

PROJECT NUMBER:
118723

DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
INTERMEDIATE STORM WATER POLLUTION PREVENTION PLAN

C501



GENERAL SWPPP NOTES

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SWPPP NOTES

A	-

SWPPP DETAILS

1	SEDIMENTATION BARRIER (SEE SHEETS C500 AND C501)
2	TEMPORARY CONSTRUCTION ENTRANCE (SEE SHEETS C500 AND C501)
3	INLET PROTECTION (SEE SHEETS C500 AND C501)
4	MATTING AND BLANKETS
5	RIP RAP

LEGEND: PRE-CON SWPPP

RIP-RAP OUTLET PROTECTION

MATTING AND BLANKETS

FINAL SWPPP

GRAPHIC SCALE 20 0 20 40

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Old Glory Restaurant

Columbia, TN

TENNESSEE REGISTERED LANDSCAPE ARCHITECT AGRICULTURE COMMISSIONER No. 104478 STATE OF TENNESSEE
12-23

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- ☒ Construction

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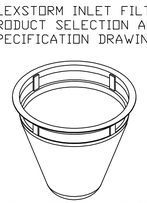
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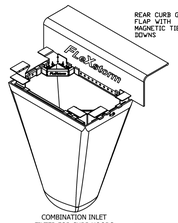
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FINAL STORM WATER POLLUTION PREVENTION PLAN

C502

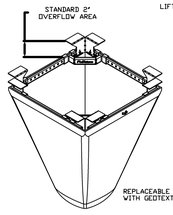
FLEXSTORM INLET FILTERS PRODUCT SELECTION AND SPECIFICATION DRAWING

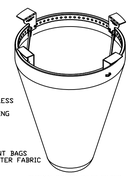


STAINLESS STEEL ROUND INLET FILTERS for NYLOPLAST CASTINGS CATCH-ITS SPECIFIED W/ FX or FX-S BAGS



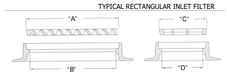
COMBINATION INLET FILTER FOR CURB HOODS



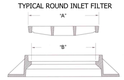


REPLACEABLE SEDIMENT BAGS WITH GEOTEXTILE FILTER FABRIC

TYPICAL RECTANGULAR INLET FILTER



TYPICAL ROUND INLET FILTER

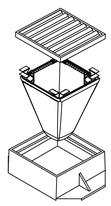


1. INDENTIFY YOUR FRAME STYLE, SIZE, AND MATERIAL

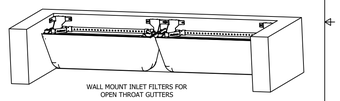
STYLE	FRAME STYLE AND SIZE	Frame P/N:
ROUND	Small Round (up to 20.0" dia grates (A) dim)	62SRD
	Med Round (20.1" - 26.0" dia grates (A) up to 25" dia openings (B))	62MRD
	Large Round (26.1" - 32.0" dia grates (A) up to 30" openings (B))	62LRD
	XL Round (32.1" dia - 39" dia grates (A) up to 37" dia openings (B))	62XLRD
RECT/ SQUARE	Small Rect / Square (up to 16" (B) x 16" (D) openings or 64" perimeter)	62SSQ
	Med Rect / Square (up to 24" (B) x 24" (D) openings or 96" perimeter)	62MSQ
	Large Rect / Square (up to 36" (B) x 24" (D) openings or 120" perimeter)	62LSQ
	XL Rect / Square (side by side 2 pc set to fit up to 48" (B) x 36" (D) openings)	62XLSQ
COMBO INLETS	Small Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62SCB
	Med Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62MCB
	Large Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62LCB
	XL Rect / Square (ref Rect sizing; shipped with Magnetic Curb Flaps)	62XLCB
NYLOPLAST	12" diameter Nyloplast castings (Stainless Steel Framing standard)	6212NY
	15" diameter Nyloplast castings (Stainless Steel Framing standard)	6215NY
	18"diameter Nyloplast castings (Stainless Steel Framing standard)	6218NY
	24" diameter Nyloplast castings (Stainless Steel Framing standard)	6224NY
	30" diameter Nyloplast castings (Stainless Steel Framing standard)	6230NY
WALL MOUNT	Open Throat Gutters - Curb Opening Size	
	Up to 4' (1 Filter and Mounting Hardware)	62WM1
	Between 4' and 8' (2 Filters and Mounting Hardware)	62WM2
	Between 8' and 12' (3 Filters and Mounting Hardware)	62WM3
	Between 12' and 16' (4 Filters and Mounting Hardware)	62WM4
UPGRADED FRAMING MATERIAL OPTIONS (STANDARD IS ZINC PLATED)		SUFFIX
CHROME PLATED FRAMING FOR HIGH SALT EXPOSURE		- CHR
STAINLESS STEEL FRAMING FOR HIGH SALT AND/OR CHEMICAL EXPOSURE		- SS

2. SELECT YOUR FILTER BAG PART NUMBER

FLEXSTORM FILTER BAGS	(22" depth) STD Bag P/N	(12" depth) Short Bag P/N	Clean Water Flow Rate (GPM/SqFt)	Min A.O.S. (US Sieve)
FX: Standard Woven Bag	FX	FX-S	200	40
FX+: Woven w/ MyCelx	FXP	FXP-S	200	40
FXO: Woven w/ Oil Boom	FXO	FXO-S	200	40
PC: Post Construction Bag	PC	PC-S	137	140
PC+: PC Bag w/ MyCelx	PCP	PCP-S	137	140
LL: Litter and Leaf Bag	LL	LL-S	High	3.5
IL: IDOT Non-Woven Bag	IL	IL-S	145	70



INSTALLATION:
1. REMOVE GRATE
2. DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
3. REPLACE GRATE



WALL MOUNT INLET FILTERS FOR OPEN THROAT GUTTERS

SPECIFICATIONS FOR STANDARD BAGS BY NOMINAL SIZE

Nominal Bag Size	Solids Storage (CuFt)	Filtered Flow Rate at 50% Max FX (Woven)	PC (Post Constr)	IL (Non Woven)	* PC Oil Retent (Oz.)	**PCP Oil Retent (Oz)
Small	1.6	1.2	0.8	0.9	66	155
Medium	2.1	1.8	1.2	1.3	96	185
Large	3.8	2.2	1.5	1.6	120	209
XL	4.2	3.6	2.4	2.6	192	370

* PC filter bag at 50% max adsorption capacity
** PC filter bag at 50% capacity and MyCelx skimmer at 100% capacity

3. CREATE YOUR FLEXSTORM INLET FILTER PART NUMBER

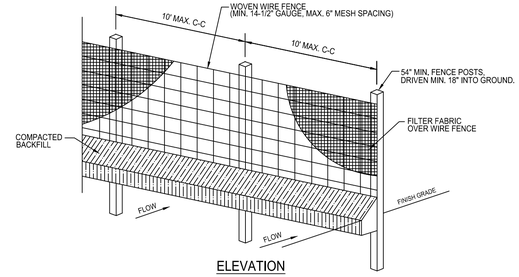
		-	
Frame P/N from Step 1.	Filter Bag P/N from Step 2.		Framing Material

ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC DISTRIBUTED BY ADS
WWW.INLETFILTERS.COM
(866) 287-8655 PH
(630) 355-3477 FX
INFO@INLETFILTERS.COM

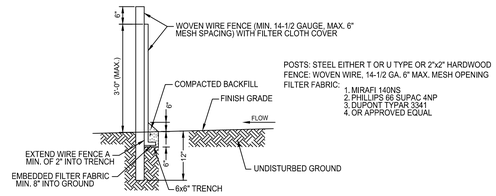
SIZE	DWG NO	REV
SCALE	SHEET 1 OF 1	

INLET PROTECTION

3



ELEVATION



POSTS: STEEL EITHER T OR U TYPE OR 2"x2" HARDWOOD
FENCE: WOVEN WIRE, 14-1/2 GA. 6" MAX. MESH OPENING
FILTER FABRIC:
1. MIRAFI 140NS
2. PHILLIPS 66 SUPAC 4NP
3. DUPONT TYPAR 3341
4. OR APPROVED EQUAL

CROSS-SECTION

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE EROSION CONTROL PLAN. COLLECTED MATERIAL SHALL BE REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE OR BEFORE SEDIMENT HAD ACCUMULATED TO ONE-THIRD OF THE ABOVE GROUND HEIGHT OF ANY PERIMETER CONTROL.

SEDIMENTATION BARRIER/ SILT FENCE

(NOT TO SCALE)

1

Practice Standards and Specifications

6.17 RECP

ROLLED EROSION CONTROL PRODUCTS

Definition Rolled erosion control products are manufactured or fabricated into rolls designed to reduce soil erosion and assist in the growth, establishment and protection of vegetation. Examples of RECP's are blankets, nets, and matting.

Purpose Erosion control mats and blankets are intended to protect soil and hold seed and mulch in place on slopes and in channels so that vegetation can become well established. Turf reinforcement mats can be used to permanently reinforce grass in drainage ways during high flows. Nets are made of high tensile material woven into an open net which overlays mulch materials. Blankets are made of interlocking fibers, typically held together by a biodegradable or photodegradable netting (for example, excelsior or straw blankets). They generally have lower tensile strength than nets, but cover the ground more completely. Coir (coconut fiber) fabric comes as both nets and blankets.

Conditions Where Practice Applies Rolled Erosion Control Products (RECP's) should be used to aid permanent vegetated stabilization of slopes 2:1 or greater and with more than 10 feet of vertical relief. RECP's should also be used when mulch cannot be adequately tacked and where immediate ground cover is required to prevent erosion damage.

RECP's should be used to aid in permanent stabilization of vegetated channels when runoff velocity will exceed 2 ft/sec on bare earth during the 2-year rainfall event that produces peak runoff. The product selected must have a permissible shear stress that exceeds the shear stress of the design runoff event.

Planning Considerations

- Good ground contact is critical to the effectiveness of these products. If good ground contact is not achieved, runoff can concentrate under the product, resulting in significant erosion.
- Nets must be used in conjunction with mulch. Excelsior, woven straw blankets and coir (coconut fiber) blankets may be installed without mulch. There are many other types of erosion control nets and blankets on the market that may be appropriate in certain circumstances. In general, most nets (e.g. jute matting) require mulch in order to prevent erosion because they have a fairly open structure. Blankets typically do not require mulch because they usually provide complete protection of the surface.
- Most netting used with blankets is photodegradable, meaning they break down under sunlight (not UV stabilized). However, this process can take months or years even under bright sun. Once vegetation is established, sunlight does not reach the mesh. It is not uncommon to find non-degraded netting still in place several years after the installation. This can be a problem if maintenance requires the use of mowers or ditch cleaning equipment. In addition, birds and small animals can become trapped in the netting.

Construction Specifications

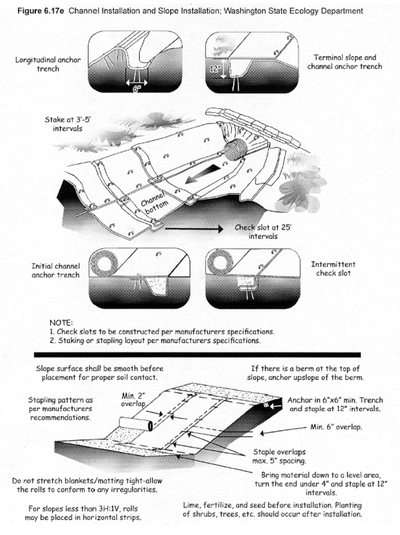
Construction
Even if properly designed, if not properly installed, RECP's will probably not function as desired. Proper installation is imperative. Even if properly installed, if not properly timed and nourished, vegetation will probably not grow as desired. Proper seed/vegetation selection is also imperative.

Grade the surface of installation areas so that the ground is smooth and loose. When seeding prior to installation, follow the steps for seed bed preparation, soil amendments, and seeding in *Surface Stabilization*, 6.1. All gullies, rills, and any other disturbed areas must be fine graded prior to installation. Spread seed before RECP installation. **(Important**: Remove all large rocks, dirt clods, stumps, roots, grass clumps, trash, and other obstructions from the soil surface to allow for direct contact between the soil surface and the RECP.)

Terminal anchor trenches are required at RECP ends and intermittent trenches must be constructed across channels at 25-foot intervals. Terminal anchor trenches should be a minimum of 12 inches in depth and 6 inches in width, while intermittent trenches need be only 6 inches deep and 6 inches wide.

Installation for Slopes— Place the RECP 2-3 feet over the top of the slope and into an excavated end trench measuring approximately 12 inches deep by 6 inches wide. Pin the RECP at 1 foot intervals along the bottom of the trench, backfill, and compact. Unroll the RECP down (or along) the slope maintaining direct contact between the soil and the RECP. Overlap adjacent rolls a minimum of 3 inches. Pin the RECP to the ground using staples or pins in a 3 foot center-to-center pattern. Less frequent stapling/pinning is acceptable on moderate slopes.

Figure 6.17e Channel Installation and Slope Installation; Washington State Ecology Department



Maintenance

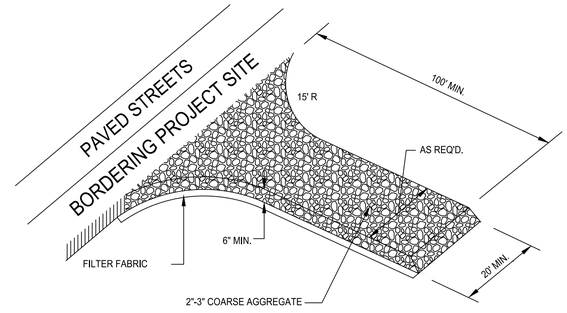
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1. Inspect Rolled Erosion Control Products at least weekly and after each significant (1/2 inch or greater) rain fall event repair immediately.
2. Good contact with the ground must be maintained, and erosion must not occur beneath the RECP.
3. Any areas of the RECP that are damaged or not in close contact with the ground shall be repaired and stapled.
4. If erosion occurs due to poorly controlled drainage, the problem shall be fixed and the eroded area protected.
5. Monitor and repair the RECP as necessary until ground cover os established.

MATTING & BLANKETS

(NOT TO SCALE)

4



NOTE:
GRAVEL PAD IS REQUIRED TO PROVIDE BUFFER AREA WHERE VEHICLES CAN DROP THEIR MUD AND SEDIMENT TO AVOID TRANSPORTING IT ONTO PAVED STREETS, TO CONTROL EROSION FROM SURFACE RUNOFF, AND TO HELP CONTROL DUST.

TEMPORARY CONSTRUCTION ENTRANCE

(NOT TO SCALE)

2

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, SUITE 105
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615.370.1273 FAX
STATE OF TENNESSEE
PROFESSIONAL ENGINEER
LICENSE # 104476
CURTIS P. INGRAM JR.

P. STUDIO
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call | 615.258.5562
email | hello@paradymstudio.com

Old Glory Restaurant

Columbia, TN

TENNESSEE REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER A. SCHMIDT
No. 104477
STATE OF TENNESSEE
12-8-23

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ■ Construction

REVISIONS

PROJECT NUMBER: 118723

DRAWN BY: SAS

DATE: 12/08/23

DRAWING DRAINAGE DETAILS

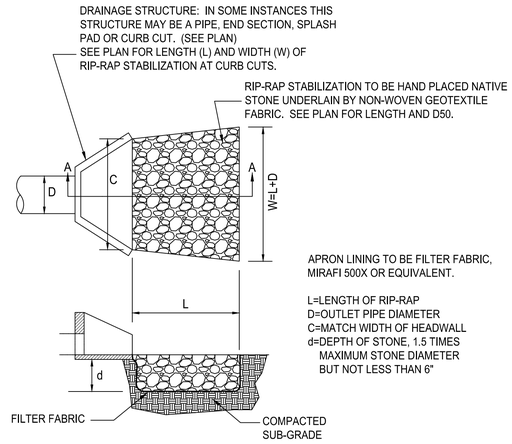
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5



RIP-RAP OUTLET PROTECTION
(NOT TO SCALE)

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STATE OF TENNESSEE PROFESSIONAL ENGINEER LICENSE # 104476
CURTIS P. INGRAM JR.

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email | hello@paradymstudio.com

Old Glory Restaurant

Columbia, TN



ISSUED FOR

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REVISIONS

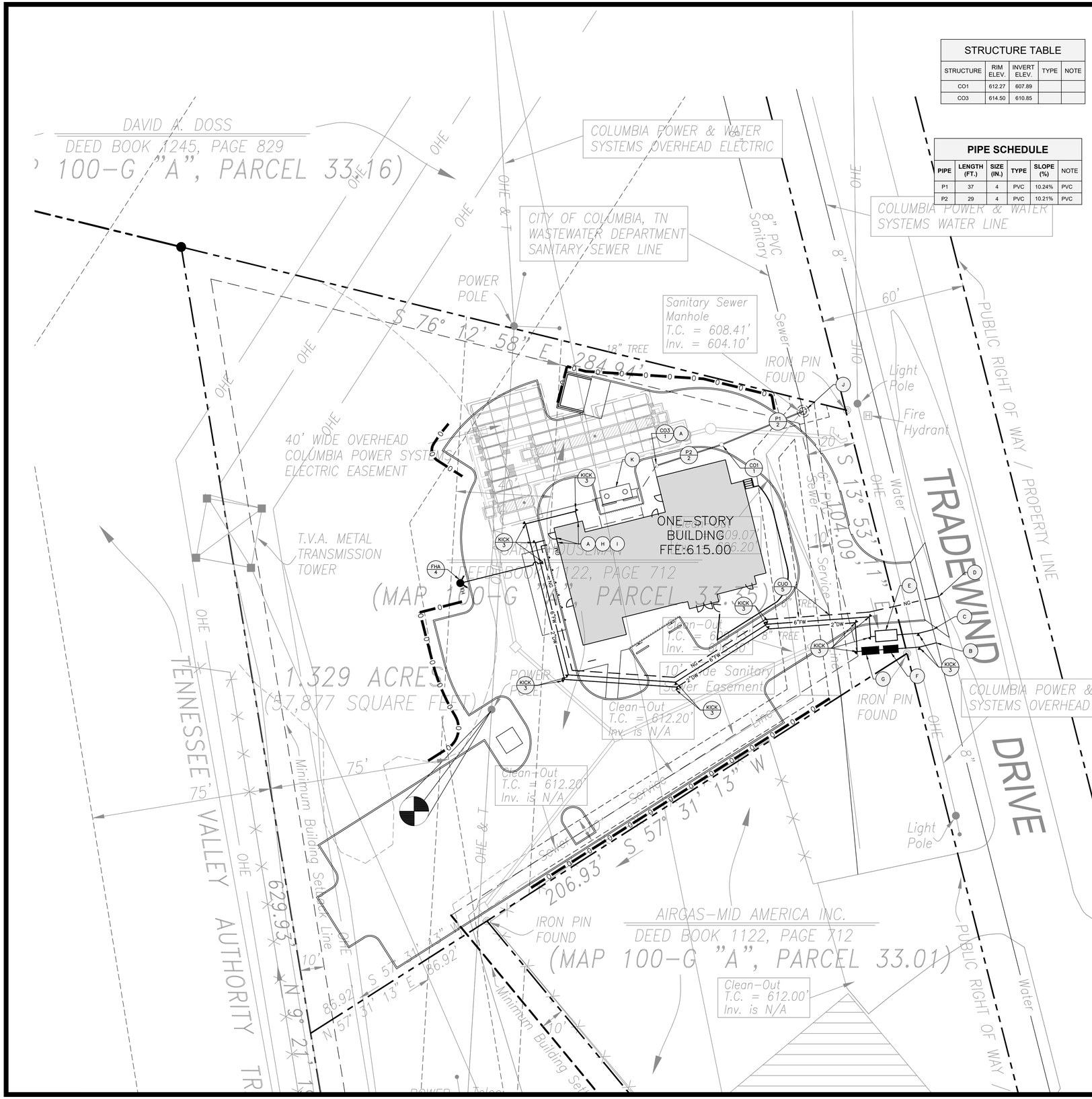
PROJECT NUMBER:
118723

DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
DRAINAGE
DETAILS

C511



STRUCTURE TABLE

STRUCTURE	RIM ELEV.	INVERT ELEV.	TYPE	NOTE
CO1	612.27	607.89		
CO3	614.50	610.85		

PIPE SCHEDULE

PIPE	LENGTH (FT.)	SIZE (IN.)	TYPE	SLOPE (%)	NOTE
P1	37	4	PVC	10.24%	PVC
P2	29	4	PVC	10.21%	PVC

GENERAL UTILITY NOTES

1. UNLESS OTHERWISE NOTED, ALL WATER LINES SHALL BE PVC WITH 3' MIN. COVER.

2. UNLESS OTHERWISE NOTED, ALL SANITARY SEWER LINES SHALL BE PVC WITH 4' MIN. COVER.

3. CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS.

4. ALL ELECTRICAL, TELEPHONE AND GAS EXTENSIONS, INCLUDING SERVICE LINES, SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS. ALL UTILITY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANIES.

5. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED BY THE ENGINEER FROM THE APPROPRIATE GOVERNING AUTHORITY AND THE CONTRACTOR HAS BEEN NOTIFIED BY THE ENGINEER.

6. PRIOR TO THE CONSTRUCTION OF ANY CONNECTION TO ANY STORM DRAIN, SANITARY SEWER, WATER MAIN AND/OR ANY DRY UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM THE ENGINEER AND THE OWNER/DEVELOPER OF ANY CONFLICT OR REQUIRED DEVIATION FROM THE PLAN. NOTIFICATION SHALL BE MADE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.

7. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON OR WITHIN SPECIFICATIONS:
ALL WATER LINE FITTINGS SHALL BE INSTALLED WITH THRUST BLOCKING (SEE UTILITY DETAILS, THESE PLANS). ALL WATER LINE PIPE BEDDING SHALL BE INSTALLED PER DETAIL (SEE UTILITY DETAILS, THESE PLANS). ALL SANITARY SEWER PIPE BEDDING SHALL BE INSTALLED PER DETAIL (SEE UTILITY DETAILS, THESE PLANS).

8. PRIVATE SEWER LINES MUST BE INSTALLED BY A LICENSED PLUMBER AND MUST BE INSTALLED IN ACCORDANCE WITH THE PLUMBING CODE OF THE GOVERNING AUTHORITY.

9. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL PERMIT FEES. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES AND RECEIVE APPROPRIATE APPROVALS WHERE REQUIRED PRIOR TO COMMENCEMENT OF THE WORK.

10. SEE MP&E PLANS FOR CONTINUATION OF UTILITIES INTO BUILDINGS. THE CONTRACTOR SHALL COORDINATE THE LOCATIONS OF THE CONNECTIONS OF THE SITE UTILITIES WITH THE BUILDING UTILITIES.

11. ADJUST ALL CASTINGS TO MATCH FINISH GRADES.

12. WRITTEN DIMENSIONS PREVAIL. DO NOT SCALE THESE DRAWINGS. PRINTED DIMENSIONS WHICH ARE OMITTED OR IN CONFLICT SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR REVIEW AND RESPONSE. DIMENSIONS ARE FROM FACE OF CURB / EDGE OF PAVEMENT AND FACE OF BUILDING, UNLESS NOTED OTHERWISE.

13. NOTE TO SPRINKLER CONTRACTOR:
THE FOLLOWING FLOW AND PRESSURE DATA HAS BEEN CALCULATED BY GRAND FIRE PROTECTION, LLC ON 11/17/23.

UTILITY NOTES

A	SEE PLUMBING FOR CONTINUATION INTO BUILDING
B	2 INCH DOMESTIC WATER TAP, COORDINATE WITH COLUMBIA POWER AND WATER
C	6 INCH FIRE WATER TAP, COORDINATE WITH COLUMBIA POWER AND WATER
D	NATURAL GAS CONNECTION, COORDINATE WITH ATMOS GAS PROVIDER.
E	6 INCH DOUBLE DETECTOR CHECK VALVE IN ABOVE GROUND HEATED BOX, COORDINATE WITH COLUMBIA POWER AND WATER AND ELECTRICAL.
F	2 INCH DOMESTIC WATER METER, COORDINATE WITH COLUMBIA POWER AND WATER
G	2 INCH REDUCED PRESSURE BACKFLOW, IN ABOVE GROUND HEATED VAULT, COORDINATE WITH ELECTRICAL AND COLUMBIA POWER AND WATER
H	WALL MOUNTED FDC
I	WALL MOUNTED PIV
J	CONNECT TO EXISTING SANITARY MANHOLE AT IE: 604.10
K	1,500 GAL GREASE INTERCEPTOR, COORDINATE WITH PLUMBING PLANS

UTILITY DETAILS

1	EXTERIOR CLEANOUT
2	UTILITY TRENCH & BEDDING
3	CONCRETE KICKER
4	FIRE HYDRANT ASSEMBLY
5	CROSSING UNDER OBSTRUCTION

LEGEND: UTILITY

- NG — PROPOSED GAS LINE
- W — PROPOSED WATER LINE
- PIP 1 — PROPOSED SANITARY SEWER LINE
- PROPOSED MANHOLE
- PROPOSED WATER METER
- GM — PROPOSED GAS METER
- PROPOSED WATER VALVE
- PROPOSED WATER CONNECTION W/ KICKER
- PROPOSED CLEANOUT
- PROPOSED FIRE HYDRANT
- PROPOSED BACK FLOW ASSEMBLY
- PROPOSED DOUBLE DETECTOR CHECK VALVE ASSEMBLY

UTILITY PLAN

20 0 20 40
GRAPHIC SCALE

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212 OVERLOOK CIRCLE, SUITE 105
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REVISIONS

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DRAWING UTILITY PLAN

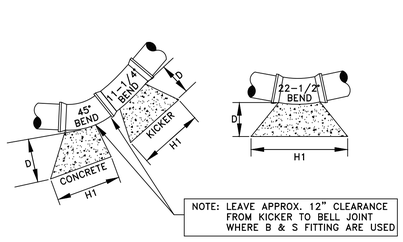
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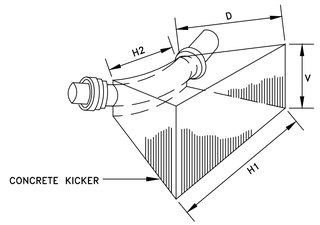
TABLE OF DIMENSIONS FOR CONCRETE KICKERS

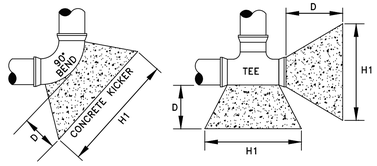
	SIZE OF PIPE (in.)	2" & 2-1/4"	3" & 4"	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"
TAPPING SLEEVES, TEES, & PLUGS	H1	18"	24"	24"	36"	48"	54"	66"					
	H2	10"	12"	16"	18"	24"	30"	34"	36"	38"	42"	52"	58"
	V	12"	12"	18"	18"	18"	24"	36"					
	D	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
	cu. ft.	1.90	2.25	3.50	5.05	7.15	13.40	22.50					
90° BENDS	H1	18"	24"	30"	39"	54"	54"	69"					
	H2	10"	12"	16"	18"	32"	32"	48"	48"	48"	60"	72"	96"
	V	12	12"	18"	24"	24"	36"	48"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	cu. ft.	1.90	2.25	4.05	7.30	10.25	18.15	29.00					
45° BENDS	H1	18"	18"	24"	30"	24"	42"	48"					
	H2	6"	8"	10"	11"	18"	18"	30"	30"	40"	48"	48"	72"
	V	12"	12"	16"	18"	21"	24"	36"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	cu. ft.	1.50	1.60	3.20	3.95	4.60	9.60	17.00					
22-1/2° BENDS	H1	18"	18"	24"	24"	24"	24"	36"					
	H2	6"	8"	10"	11"	18"	18"	30"	30"	36"	42"	48"	72"
	V	12"	12"	16"	18"	21"	24"	27"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	cu. ft.	1.50	1.60	3.20	3.40	4.60	6.80	11.80					
11-1/4° BENDS	H1	18"	18"	24"	24"	24"	24"	27"					
	H2	6"	8"	10"	11"	18"	18"	24"	30"	40"	42"	48"	48"
	V	12"	12"	16"	16"	21"	21"	27"					
	D	18"	18"	18"	18"	18"	24"	24"					
	cu. ft.	1.50	1.60	3.20	3.40	4.60	6.10	9.10					

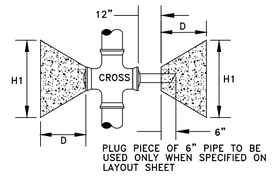
NOTE:
CONCRETE USED FOR BLOCKING SHALL BE (CLASS "A"-3500# PER SQ. IN.). EARTH PRESSURES ARE FIGURED AT (4000# PER SQ. FT.) BEARING AREA OF KICKERS SHALL BE INCREASED WHEN POURED AGAINST SAND, LOOSE FILL, WET EARTH, CINDERS, ETC.

TABLE BASED ON 225 P.S.I. OR 150 P.S.I. WORKING PRESSURE PLUS 50% WATER HAMMER





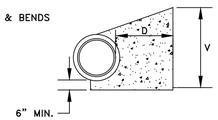




NOTE: SEE DRAWING WDET006 FOR TABLE OF DIMENSIONS FOR CONCRETE KICKERS

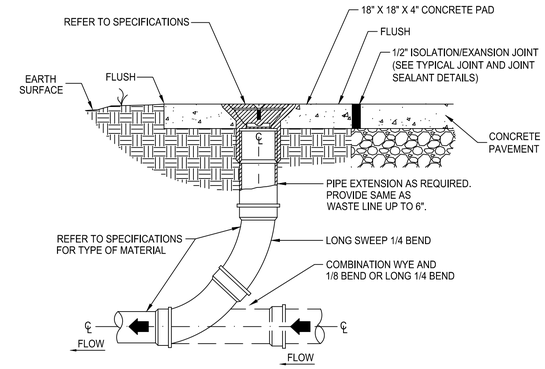
NOTE: SEE DRAWING WDET006 FOR TABLE OF DIMENSIONS FOR CONCRETE KICKERS

SECTIONAL VIEW TEES, CROSSES, & BENDS



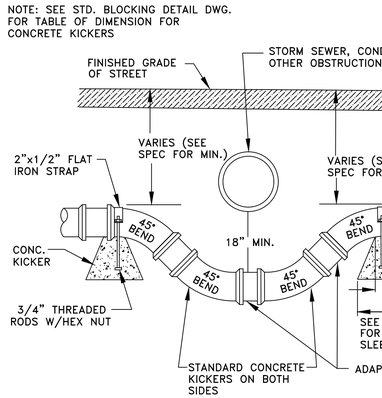
CONCRETE KICKERS
(NOT TO SCALE)

KICK 3



EXTERIOR CLEANOUT
(NOT TO SCALE)

CO 1



NOTE: SEE STD. BLOCKING DETAIL DWG. FOR TABLE OF DIMENSION FOR CONCRETE KICKERS

NOTE: SIZE OF KICKER, CLAMP & RODS SHALL BE INCREASED IF SPECIFIED ON LAYOUT SHEET OR BY THE ENGINEER.

METHOD OF CROSSING UNDER OBSTRUCTIONS

CROSSING UNDER OBSTRUCTIONS
(NOT TO SCALE)

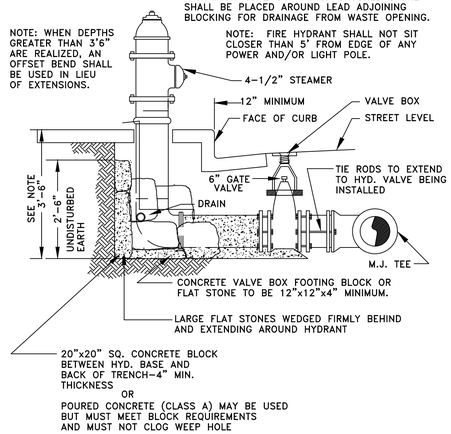
CUO 5

HYDRANT SHALL BE SET ON CONCRETE VALVE BOX FOOTING BLOCK. CONCRETE BLOCK OR POURED CONCRETE (CLASS A) SHALL BE WEDGED FIRMLY BEHIND AND EXTENDING AROUND HYDRANT TO UNDISTURBED EARTH.

CARE SHALL BE USED TO SET HYDRANT PLUMB. THE FIRE HYDRANT SHALL BE LOCATED NOT LESS THAN 12 INCHES FROM FACE OF CURB TO FRONT OF HYDRANT PROTECTION CASE.

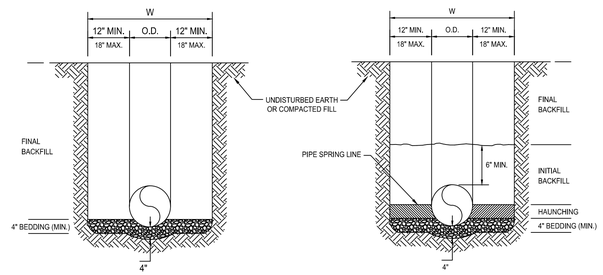
A MINIMUM OF 2 CU. FT. OF CRUSHED STONE SHALL BE PLACED AROUND LEAD ADJOINING BLOCKING FOR DRAINAGE FROM WASTE OPENING.

NOTE: FIRE HYDRANT SHALL NOT SIT CLOSER THAN 5' FROM EDGE OF ANY POWER AND/OR LIGHT POLE.



FIRE HYDRANT ASSEMBLY
(NOT TO SCALE)

FHA 4



GENERAL NOTES:

1. BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR. (SEE SPECIFICATIONS FOR GRADATION.)
2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3 AND 4.
6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS IV-A COMPACTED TO 95% STANDARD PROCTOR.
7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8" LOOSE LIFTS IN ACCORDANCE WITH ASTM D 698. CLASS III AND IV-A MATERIALS SHALL BE COMPACTED NEAR OPTIMUM MOISTURE CONTENT.
9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3".
10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES. (SEE SPECIFICATIONS.)

UTILITY TRENCH AND BEDDING
(NOT TO SCALE)

TB 2

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, SUITE 105
BRENTWOOD, TENNESSEE 37027
615.370.7964 OFFICE
615.370.1273 FAX
STATE OF TENNESSEE PROFESSIONAL ENGINEER
LICENSE # 104476
CURTIS P. INGRAM JR.

P. STUDIO
761 OLD HICKORY BLVD STE 301
BRENTWOOD, TN 37027
call | 615.258.5562
email | hello@paradymstudio.com

Old Glory Restaurant

Columbia, TN

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ▩ Construction

REVISIONS

PROJECT NUMBER: 118723

DRAWN BY: SAS

DATE: 12/08/23

DRAWING UTILITY DETAILS

C610

Page 182 of 256 • Lot 0001 - Tradewind Dr

GRAND Fire Protection

FIRE HYDRANT FLOW TEST: **Job#: 523-450**

Flow Test For: **Ingram Civil Engineering Group**
Cullen Morrow
(615) 982-6363

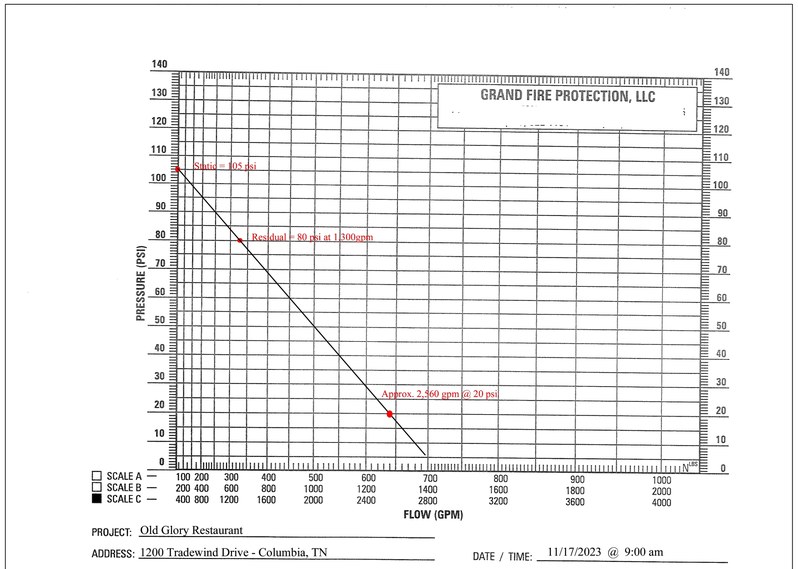
Location: **Old Glory Restaurant**
1200 Tradewind Drive
Columbia, TN

Test Performed By: **Andy Russell / Nick Carter**

Date / Time of Day: **11/17/2023 at 9:00 am.**

Witness: **NA**

		STATIC	RESIDUAL
TEST HYDRANT #	**In Front of Game Time Sports & Training**	**105**	**80**
		Pitot	**GPM**
FLOW HYDRANT #	**In Front of Building Site**	**60**	**1300**



P. STUDIO
761 OLD HICKORY BLVD STE 301
BRENTWOOD, TN 37027
call | 615.258.5562
email | hello@paradymstudio.com

Old Glory Restaurant

Columbia, TN

CURTIS P. INGRAM JR. REGISTERED ENGINEER AGRICULTURE STATE OF TENNESSEE No. 104478 12-8-23

ISSUED FOR
- ☐ Lease Outline Diagram
- ☐ Schematic Design
- ☐ Design Development
- ☒ Construction

REVISIONS

PROJECT NUMBER:
118723

DRAWN BY:
SAS

DATE:
12/08/23

DRAWING
UTILITY
DETAILS

C611

INGRAM CIVIL ENGINEERING GROUP, LLC
212 OVERLOOK CIRCLE, SUITE 105
BRENTWOOD, TENNESSEE 37027
615.370.7964 OFFICE
615.370.1273 FAX
STATE OF TENNESSEE
PROFESSIONAL ENGINEER
LICENSE # 104478
CURTIS P. INGRAM JR.

Page 183 of 256 • Lot 0001 - Tradewind Dr

Section 16

City GIS Parcel Record 060 100G A 033.35

This record was retrieved from the City of Columbia, TN GIS Parcels feature service, which publishes Maury County assessor (CAMA) data for each parcel. Values are reproduced as published. Field names are shown as they appear in the source.

Field	Label	Value
GISLINK	GIS link	060100G A 03335
PARCELID	Parcel ID	060 100G A 03335 000 2025
ADDRESS	Address	TRADEWIND DR
OWNER	Owner	S & K LLC
MAILADDR	Owner mailing address	2983 ELKHORN PL
MAILCITY	Mailing city	SPRING HILL
CAMADEEDAC	Deed acres	1.33
CALC_ACRE	GIS calculated acres	1.378
LOT	Lot	2
PLATBK	Plat book	22
PLATPG	Plat page	540
DEEDBKPG	Deed book/page	R2942/405
SALEDATE	Last sale date	08/23/2023
PRICE	Last sale price	$165,000
PT	Property type	08 Commercial
ZONING	Zoning (assessor field)	(blank)
WATERSEWER	Water / sewer	01 Public/Public
ELEC	Electric	01 Public
GAS	Gas	01 Public - Natural Gas
LANDUSE	Assessor land use code	11 - HOUSEHOLD UNITS
LANDVAL	Land value	$166,300
APPRAISAL	Total appraisal	$166,300
TAXYR	Tax year	2025
DISTRICT	Civil district	09

UPDATED	Record updated	10/04/2024

Notes

- The assessor zoning field (`ZONING`) is blank for this parcel. Zoning was determined from the City's zoning map layer; see the Zoning and Utilities Findings and the Zoning Map Exhibit.
- PT 08 Commercial is the assessor's property-type classification for taxation. It is not the zoning district.
- The utility fields record public water, sewer, electric and natural gas serving the area. They do not confirm a service connection to this vacant lot.
- GIS calculated acreage differs from deed acreage; deed acreage (1.33) governs the listing.

Source: services6.arcgis.com/ubRvNDgGwwJuZMcL/arcgis/rest/services/Parcels/FeatureServer/1, query `GISLINK='060100G A 03335'`.

Section 17

CPWS Water Service Fee Sheet and Receipt – Tradewind Dr

For Customer Service Use Only

Location Order & Account #	109902 951-1548-01
Address	Old Glory Restaurant (Tradewinds Dr)
Customer Name	Old Glory Restaurant

Description	Cost	Comments
001 - Determine Fees		
WA - 3" Meter Fee (Invoiced)		
WA - New Service Fee	14,413.00	
WA - Impact Fee	25,000.00	
WA - Impact Fee	7,500.00	
WA - Meter Fee	710.00	
Total	47,623.00	

Signed By: _____ Date: _____

CPWS

Columbia Power & Water Systems

Receipt

Receipted By: LS
Receipted On: 12/1/2023 1:26:07 PM

Batch: LS - 12/1/2023
Receipt No: 198124
Receipt Date: 12/1/2023

Utility Billing

Name: Old Glory Restaurant
951-1548-01

MR - WA New Service Fee	$14,413.00
Balance Due After Payment:	$0.00

ANY CREDIT BALANCE SHOWN ABOVE IS NOT A REFLECTION OF YOUR CURRENT BALANCE ON THE PREPAY SYSTEM.

Payment Information

WalkIn-Cash **Ref:**
Old Glory Restaurant $14,413.00

Amount Tendered:	$14,413.00
Total Paid:	$14,413.00
Change:	$0.00

For Customer Service Use Only

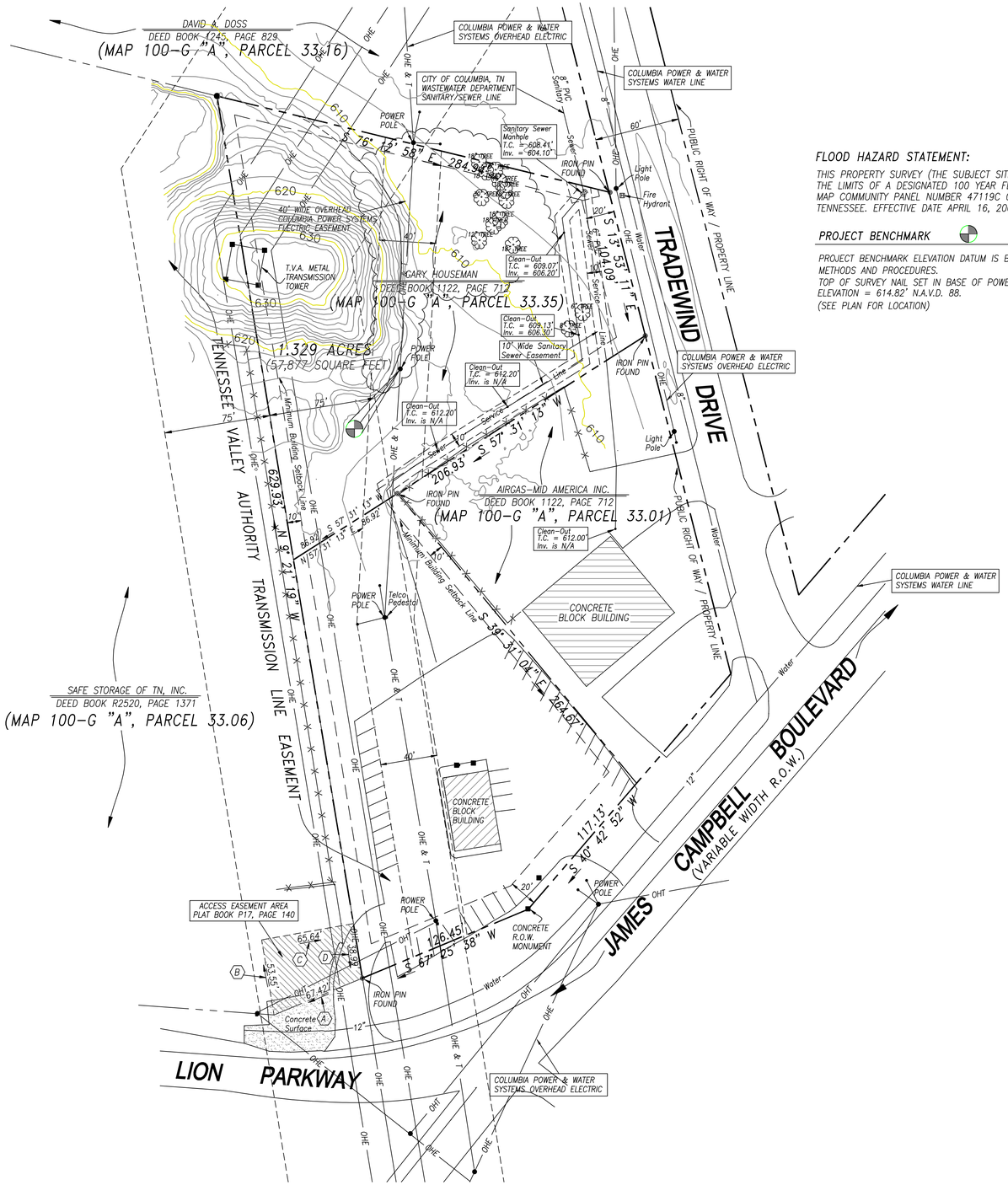
109902	951-1548-01
Old Glory Restaurant (Tradewinds Dr)	
Old Glory Restaurant	

	Cost	Comments
	14,413.00	
	25,000.00	
	7,500.00	
	710.00	
Total	47,623.00	

Signed By: _____ Date: _____

Section 18

HOUSEMAN-24X36



TN SPC (NAD 83) GRID NORTH

GRID NORTH

40 0 40 80 120

Scale 1" = 80'

GRAPHIC SCALE
(11" X 17" SHEET SIZE)



FLOOD HAZARD STATEMENT:

THIS PROPERTY SURVEY (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA\FIRM MAP COMMUNITY PANEL NUMBER 47119C 0280 E, MAURY COUNTY, TENNESSEE. EFFECTIVE DATE APRIL 16, 2007.

PROJECT BENCHMARK

PROJECT BENCHMARK ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES.
TOP OF SURVEY NAIL SET IN BASE OF POWER POLE
ELEVATION = 614.82' N.A.V.D. 88.
(SEE PLAN FOR LOCATION)

PERIMETER DATA TABLE
ACCESS EASEMENT AREA

NO.	BEARING	DISTANCE
A	S 67° 25' 38" W	67.42'
B	N 09° 21' 18" W	53.55'
C	N 79° 53' 53" W	65.64'
D	S 09° 21' 19" E	38.99'

LEGENDS:

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- 560 INDEX CONTOURS
- 1' INTERVAL
- OHE & T OVERHEAD ELECTRIC & TELEPHONE LINES
- OHE OVERHEAD ELECTRIC
- FENCELINE
- Water PUBLIC WATER LINE

GENERAL NOTES:

1. THIS SURVEY CONFORMS TO THE GUIDELINES SET FORTH IN THE STANDARDS OF PRACTICE, CHAPTER 0820-3, FOR A GENERAL PROPERTY SURVEY, CATEGORY II, AND HAS AN UNADJUSTED FIELD RUN TRAVERSE CLOSURE EXCEEDING 1' / 7,500'.
2. PARCEL NUMBERS SHOWN THUS (00), ARE OF RECORD IN THE TAX ASSESSOR'S OFFICE OF MAURY COUNTY, TENNESSEE.
3. BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
4. PROPERTY OWNER:
   PATRICIA ANNE HOUSEMAN
   203 CHURCHILL FARMS DRIVE
   MURFREESBORO, TN 37127-7897
5. NO CURRENT TITLE COMMITMENT WAS FURNISHED TO THIS SURVEYOR AT THE TIME OF THIS SURVEY; THEREFORE, THIS SURVEY IS SUBJECT TO ANY FINDINGS THAT A CURRENT AND COMPLETE TITLE COMMITMENT MAY REVEAL.

FRANK V. NEELEY
REGISTERED LAND SURVEYOR
DEPARTMENT OF AGRICULTURE
COMMERCE
No. 1492
STATE OF TENNESSEE

PLOT DATE: JULY 7, 2023

REVISIONS:

1		
2		
3		
4		
5		

PROJECT NO: 223.066.20
JUNE 28, 2023
DRAWN BY: F.V.N.
CHECKED BY: F.V.N.

SHARONDALE SURVEYING INC.
161 MARTIN ROAD
BON AQUA, TN 37025
(615) 513-0032
E-Mail: Sharndal@bellsouth.net

BOUNDARY & TOPOGRAPHIC SITE SURVEY OF
TAX MAP 100-G "GROUP A" PARCEL 33.35
TAX ASSESSOR'S OFFICE - MAURY COUNTY, TENNESSEE
LOCATED ON: TRADEWIND DRIVE
PREPARED FOR: INGRAM CIVIL ENGINEERING
JUNE, 2023

SHEET NUMBER:
1 OF 1

PROJECT NUMBER:
223.066.20

Section 19

Terracon Geotechnical Report 18235306 – Old Glory Restaurant

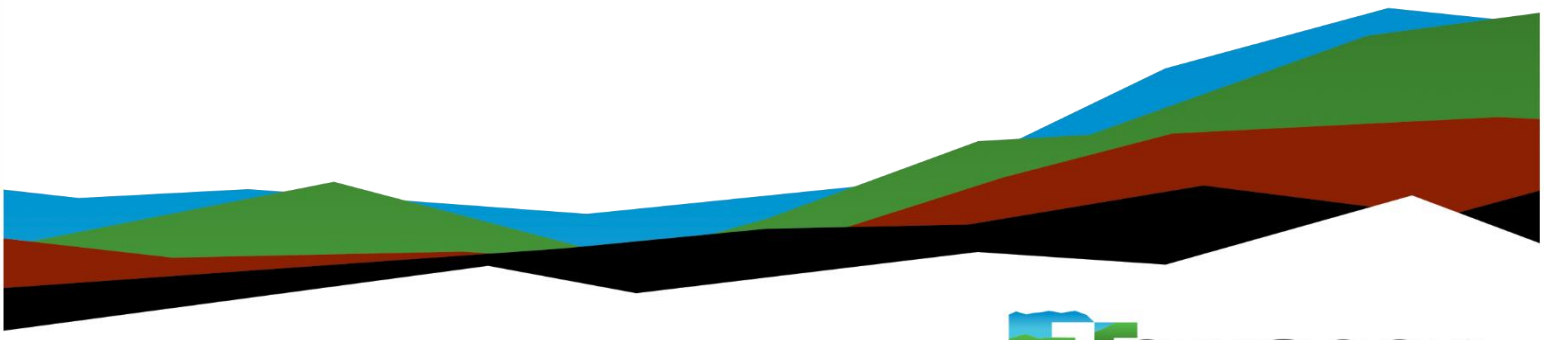
Old Glory Restaurant

Geotechnical Engineering Report

January 19, 2024 | Terracon Project No. 18235306

Prepared for:

Archangel Michael LLC
1390 Hampshire Pike, Ste. B
Columbia, TN 38401



Terracon
Explore with us

Terracon.com

Environmental
Geotechnical
Materials

1922 Old Murfreesboro Pike, Bldg 900, Ste 905
Nashville, TN 37217
P (615) 333-6444
Terracon.com

January 19, 2024

Archangel Michael LLC
1390 Hampshire Pike, Ste. B
Columbia, TN 38401

Attn: Mr. Salah Abdala
P: 615-589-8258
E: Salah.abdala75@yahoo.com

Re: Geotechnical Engineering Report
Old Glory Restaurant
Tradewinds Drive
Columbia, Tennessee
Terracon Project No. 18235306

Dear Mr. Jameson:

We have completed the scope of Geotechnical Engineering services for the above referenced project in general accordance with Terracon Proposal No. P18235306 dated November 22, 2023. This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork and the design and construction of foundations and slabs for the proposed project.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,

Terracon

Eric Conway, P.E.
Geotechnical Project Engineer

William E.S. McCloy, P.E.
Geotechnical Department Manager

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Geotechnical Characterization **3**
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GeoModel

Attachments

Exploration and Testing Procedures
Photography Log
Site Location and Exploration Plans
Exploration and Laboratory Results
Supporting Information

Note: This report was originally delivered in a web-based format. **Blue Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the Terracon logo will bring you back to this page. For more interactive features, please view your project online at **client.terracon.com**.

Refer to each individual Attachment for a listing of contents.

Introduction

This report presents the results of our subsurface exploration and Geotechnical Engineering services performed for the proposed restaurant to be located at Tradewinds Drive in Columbia, Tennessee. The purpose of these services was to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil conditions
- Groundwater conditions
- Seismic site classification per IBC
- Site preparation and earthwork
- Dewatering considerations
- Foundation design and construction
- Floor slab design and construction
- Lateral earth pressure
- Pavement design and construction

The geotechnical engineering Scope of Services for this project included the advancement of test borings, laboratory testing, engineering analysis, and preparation of this report.

Drawings showing the site and boring locations are shown on the **Site Location** and **Exploration Plan**, respectively. The results of the laboratory testing performed on soil samples obtained from the site during our field exploration are included on the boring logs in the **Exploration Results** section.

Project Description

Our initial understanding of the project was provided in our proposal and was discussed during project planning. A period of collaboration has transpired since the project was initiated, and our final understanding of the project conditions is as follows:

Item	Description
Information Provided	Information provided by email communications between Mr. Cullen Morrow of Ingram to Mr. McCloy of Terracon. Provided information included a grading plan with topographic information prepared by Paradym Studios, dated 11-6-2022. The grading plan includes a site layout.

Item	Description
Project Description	The project will include construction of a new restaurant building with associated drive lanes, parking areas and infrastructure development.
Proposed Structure	An approximate 4,000 square foot single-story restaurant building
Building Construction	Wood frame Slab-on-grade (non-basement)
Finished Floor Elevation	Finished floor elevation for the building is anticipated to be 615 feet based on the plans provided
Maximum Loads	Anticipated structural loads were not provided. In the absence of information provided by the design team; we will use the following loads in estimating settlement based on our experience with similar projects. ▪ Columns: 50 kips ▪ Walls: 3 kips per linear foot (klf) ▪ Slabs: 120 pounds per square foot (psf)
Grading/Slopes	Approximately 10 feet of cut and 5 feet of fill will be required to develop final grade, excluding remedial grading. Final slopes are planned with a maximum height of 17 feet and an inclination of 3H:1V (Horizontal: Vertical) or flatter.
Below-Grade Structures	No below-grade structures are expected to be constructed for this development.
Free-Standing Retaining Walls	Four retaining walls are planned on the site with maximum heights up to 6 feet. The length of the walls varies from 31 to 147 feet.
Pavements	Paved dumpster pad, driveway, and parking areas will be constructed around the proposed building. We understand that asphalt and concrete pavement sections will be considered. Anticipated/Assumed traffic is as follows: ▪ Autos/light pickup trucks: 100 vehicles per day ▪ Light delivery vehicles: 5 vehicles per day ▪ Trash collection trucks: 2 vehicle per week ▪ The pavement design period is 20 years.
Building Code	2018 IBC

Terracon should be notified if any of the above information is inconsistent with the planned construction, especially the grading limits, as modifications to our recommendations may be necessary.

Site Conditions

The following description of site conditions is derived from our site visit in association with the field exploration and our review of publicly available geologic and topographic maps.

Item	Description
Parcel Information	The project is located at on the western side of Tradewinds Drive, approximately 350 north of the intersection with James Campbell Boulevard in Columbia, Tennessee. Approximate GPS Coordinates of this 1.4-acre parcel are 35.6135° N and 87.0691° W (approximate) See **Site Location**
Existing Improvements	Mass graded Existing electric easements and structures
Current Ground Cover	Grassy/gravel/earthen Weeds/tall grasses and mature trees scattered throughout site
Existing Topography (From Topographic Survey prepared by Paradym Studios, dated 11/06/23)	General downward slope from west to east; approximate maximum grades vary from about 632 feet to 610 feet, MSL.

We also collected photographs at the time of our field exploration program(s) and select samples. Representative photos are provided in our **Photography Log**.

Geotechnical Characterization

We have developed a general characterization of the subsurface conditions based upon our review of the subsurface exploration, laboratory data, geologic setting and our understanding of the project. This characterization, termed GeoModel, forms the basis of our geotechnical calculations and evaluation of the site. Conditions observed at each exploration point are indicated on the individual logs. The individual logs can be found in the **Exploration Results** and the GeoModel can be found in the **Figures** attachment of this report.

As part of our analyses, we identified the following model layers within the subsurface profile. For a more detailed view of the model layer depths at each boring location, refer to the GeoModel.

Model Layer	Layer Name	General Description
1	Surface Cover	4 to 12 inches of topsoil
2	Native Soils	Lean clay with some limestone fragments and trace organics

Borings B-1 through B-4 were drilled within the proposed building area at locations selected by Terracon. Borings P-1 through P-5 were drilled within the proposed pavement area and near planned retaining walls at locations selected by Terracon.

Beneath the topsoil cover at borings B-4, P-1, and P-3; natural lean clay was encountered extending to auger refusal. These natural soils were typically medium stiff to hard based on Standard Penetration Test (SPT) N-values which varied between 6 blows per foot (bpf) to 50 blows over 3 inches. The higher N-values are likely exaggerated due to the presence of limestone bedrock fragments and do not represent the true strength of the existing soils.

Auger refusal was encountered in the borings (B-1 through B-4 and P-1 through P-5) ranging from ½ to 6 feet below existing grade.

Groundwater Conditions

Groundwater was not observed in the borings while drilling operations, or for the short duration the borings could remain open. This does not necessarily mean the borings terminated above groundwater, or the water levels summarized above are stable groundwater levels. Due to the low permeability of the soils encountered in the borings, a relatively long period may be necessary for a groundwater level to develop and stabilize in a borehole. Long term observations in piezometers or observation wells sealed from the influence of surface water are often required to define groundwater levels in materials of this type.

Groundwater level fluctuations occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the borings were performed. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the levels indicated on the boring logs. Perched water can also develop on top of bedrock or within porous fill material, if encountered. The possibility of groundwater level fluctuations and perched water should be considered when developing the design and construction plans for the project.

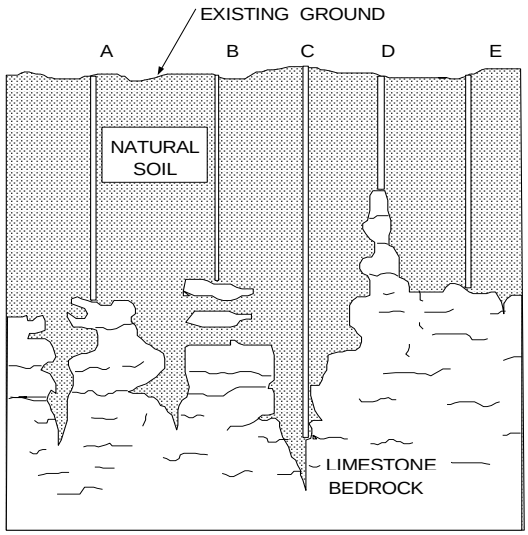
Geologic Hazards

Formation [1]	Description
Carters Limestone Formation	Fine-grained, yellowish-brown limestone; thin-bedded in upper part; thicker bedded and very slightly cherty with scattered mottlings of magnesian limestone in lower part. Contains thin bentonite beds. Thickness 50 to 100 feet.

1. Geologic Map of the Nashville West Quadrangle, Tennessee published by the State of Tennessee Department of Conservation, Division of Geology (1966).

In an area of existing fill, auger refusal can occur on man-made material, such as boulders, "shot rock" or construction debris. In an area of limestone bedrock, auger refusal can result on slabs of unweathered limestone suspended in the residual soil matrix ("floaters"), on rock "pinnacles" rising above the surrounding bedrock surface, in widened joints that may extend well below the surrounding bedrock surface, or on the upper surface of continuous bedrock. Several of these possible auger refusal conditions are illustrated in the adjacent figure.

AUGER REFUSAL ILLUSTRATION



THIS FIGURE IS FOR ILLUSTRATIVE PURPOSES ONLY AND DOES NOT NECESSARILY DEPICT THE SPECIFIC BEDROCK CONDITIONS AT THIS SITE

The Carters Limestone bedrock formation is known for producing several obstructions that can cause the augers to refuse above sound bedrock. These obstructions can range from floaters to rock pinnacles as illustrated in examples A, B, C, and D in the above figure. Depth to competent bedrock in areas of karst geology can vary greatly over short distances. The possibility of varying depths to bedrock should be considered when developing the design and construction plans for this project.

Seismic Site Class

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC). Based on the soil properties observed at the site and as described on the exploration logs and results, our professional opinion is for that a **Seismic Site Classification of C** be considered for the project. Subsurface explorations at this site were extended to a maximum depth of 6 feet. The site properties below the boring or shear wave test depth and extending to 100 feet below the lowest planned building elevation were estimated based on our experience and knowledge of geologic conditions of the general area. Additional deeper borings or geophysical testing may be performed to confirm the conditions below the current boring or test depth.

Geotechnical Overview

The site appears suitable for the proposed restaurant development based upon geotechnical conditions encountered in the test borings, provided the recommendations outlined in this report are implemented in the design and construction phases of this project. During our study, the following geotechnical considerations were identified.

- **Rock Excavation:** Based on the provided grading plans, we expectsite grades within the building pad to be raised approximately 4 feet. Shallow auger refusal was encountered in our borings varying in depth from less than a foot to approximately 6 feet below the existing ground surface. Depending on final grades, some rock excavation may be required in areas of deeper cuts for utility placement or foundation excavations further west of the site but not anticipated in building footprints. Cuts of up to 7 feet are planned along the western limits of the site where the existing slope is located. These cuts are likely to engage the bedrock surface and will require rock excavation techniques to achieve desired excavation depths. While rock coring was not performed as part of this scope, the bedrock geology typically exhibits greater strengths that suggest that use of rock trenchers, hoe ram equipment, line drilling, or hydraulic splitting. Blasting is not recommended due to the close proximity of this site to existing overhead power lines.

- **Soil / Rock (Dissimilar) Foundation Bearing** – Based the provided site plan, much of the building area is expected to be filled approximately 4 feet to reach planned grades. Some retaining wall excavations will engage both the bedrock

surface and soil at bearing elevations. This scenario would result in footings bearing on dissimilar materials (bedrock vs. soil) across a short distance potentially resulting in differential settlement equal to total settlement. To help mitigate this potential, we recommend that where bedrock is exposed in isolated areas, overexcavate the bedrock 2 feet below planned foundation bearing elevation and backfill with a compacted cohesive engineered soil fill; or where soil pockets are exposed in predominantly bedrock bearing subgrade, the soil should be removed to bedrock and the undercut area backfilled with flowable fill (Min. 300 psi strength) or compacted engineered rock fill. Alternatively, footings may bear the entire wall length between expansion joints on similar materials, either rock or soil.

- **Subgrade Instability During Inclement Weather** – On sites with shallow bedrock present, the near-surface soils are likely to be moisture sensitive and require moisture control techniques in the field to achieve compaction or additional removal/replacement. If the grading is performed during wet weather, we expect near surface subgrade soils will become unstable and may require remediation across most of the construction footprint. We recommend the grading activities be performed during dry weather. Perched water near the soil/bedrock interface may be possible. Positive drainage away from the building area and away from toe of slope/wall foundations is essential to keep water from ponding near building pads and foundations.

Additional site preparation recommendations, including subgrade improvement and fill placement, are provided in the **Earthwork** section.

The recommendations contained in this report are based upon the results of field and laboratory testing (presented in the **Exploration Results**), engineering analyses, and our current understanding of the proposed project. The **General Comments** section provides an understanding of the report limitations.

Earthwork

Earthwork is anticipated to include clearing and grubbing, excavations, and engineered fill placement. The following sections provide recommendations for use in the preparation of specifications for the work. Recommendations include critical quality criteria, as necessary, to render the site in the state considered in our geotechnical engineering evaluation for foundations, floor slabs, and pavements.

Site Preparation

Prior to placing new fill, existing vegetation, topsoil, trees including stumps and root mats should be removed. Complete stripping of the topsoil should be performed in the proposed building and parking/driveway areas.

Mature trees are located within or near the footprint of some of the proposed buildings, which will require removal at the onset of construction. Tree root systems can remove substantial moisture from surrounding soils. Where trees are removed, the full root ball and all associated dry and desiccated soils should be removed. The soil materials which contain less than 5 percent organics can be reused as engineered fill provided the material is moisture conditioned and properly compacted.

Where fill is placed on existing slopes steeper than 5H:1V, benches should be cut into the existing slopes prior to fill placement. The benches should have a minimum vertical face height of 1 foot and a maximum vertical face height of 3 feet and should be cut wide enough to accommodate the compaction equipment. This benching will help provide a positive bond between the fill and natural soils and reduce the possibility of failure along the fill/natural soil interface.

Although no evidence of fill or underground structures (such as septic tanks, cesspools, basements, and utilities) was observed during the exploration and site reconnaissance, such features could be encountered during construction. If unexpected fills or underground facilities are encountered, such features should be removed, and the excavation thoroughly cleaned prior to backfill placement and/or construction.

Subgrade Preparation

The subgrade should be proofrolled with an adequately loaded vehicle such as a fully-loaded tandem-axle dump truck. The proofrolling should be performed under the observation of the Geotechnical Engineer or representative. Areas excessively deflecting under proofroll should be delineated and subsequently addressed by the Geotechnical Engineer. Such areas should be removed and replaced with engineered fill. Excessively wet or dry material should either be removed, or moisture conditioned and recompacted.

All exposed areas which will receive new fill, once properly cleared and benched where necessary, should be scarified to a minimum depth of 10 inches, moisture conditioned as necessary, and compacted per the compaction requirements in this report. Compacted engineered fill soils should then be placed to the proposed design grade and the moisture content and compaction of subgrade soils should be maintained until foundation or pavement construction.

Based upon the subsurface conditions determined from the geotechnical exploration, subgrade soils exposed during construction are anticipated to be relatively workable;

however, the workability of the subgrade may be affected by precipitation, repetitive construction traffic or other factors. If unworkable conditions develop, workability may be improved by scarifying and drying.

Any areas where subgrade is cut to final grade within 1 to 2 feet of bedrock should be expected to be unstable and will require further undercutting to bedrock. The contractor should be prepared to perform additional undercut where soils just above the rock surface contain a high-water content. Backfill at these locations typically requires a granular fill or clean shot rock.

The on-site clayey soils are susceptible to disturbance and loss of strength from construction activity, particularly if the soil has a high natural moisture content and is wetted by surface water or seepage. Therefore, care should be taken during the site grading operation to provide adequate site drainage and minimize disturbance of the bearing soils. Heavy equipment traffic directly on bearing surfaces should be avoided in wet clay soils.

Overburden and any loose and/or weathered rock, regardless of its stability, should be removed to intact bedrock from beneath all footings as outlined herein. Undercut areas should be backfilled with lean concrete to intact bedrock. Any deep soil slots in bedrock, if encountered, will require further evaluation by a Terracon engineer and appropriate repairs for these features should be addressed on a case-by-case basis based on conditions observed by the engineer.

Excavation

We anticipate that excavations for the proposed construction can be accomplished with conventional earth moving equipment. Some grading cuts and select foundation,utility, and stormwater infrastructure excavations will engage the bedrock surface and will require rock excavation techniques to achieve the desired excavations depths. We expect use of rock trenchers, hoe ram equipment, line drilling, and hydraulic splitting, etc. will be required to remove bedrock and achieve desired excavation depths. Blasting should not be performed at this site due to the proximity to existing overhead utility structures.

Soil Stabilization

Methods of subgrade improvement, as described below, could include scarification, moisture conditioning and recompaction, removal of unstable materials and replacement with granular fill (with or without geosynthetics), and chemical stabilization. The appropriate method of improvement, if required, would be dependent on factors such as schedule, weather, the size of area to be stabilized, and the nature of the instability. More detailed recommendations can be provided during construction as the need for

subgrade stabilization occurs. Performing site grading operations during warm seasons and dry periods would help reduce the amount of subgrade stabilization required.

If the exposed subgrade is unstable during proofrolling operations, it could be stabilized using one of the methods outlined below.

- **Scarification and Recompaction -** It may be feasible to scarify, dry, and recompact the exposed soils. The success of this procedure would depend primarily upon favorable weather and sufficient time to dry the soils. Stable subgrades likely would not be achievable if the thickness of the unstable soil is greater than about 1 foot, if the unstable soil is at or near groundwater levels, or if construction is performed during a period of wet or cool weather when drying is difficult.
- **Crushed Stone** - The use of crushed stone or crushed gravel is a common procedure to improve subgrade stability. Typical undercut depths would be expected to range from about 24 to 36 inches below finished subgrade elevation. The use of high modulus geotextiles (i.e., engineering fabric or geogrid) could also be considered after underground work such as utility construction is completed. Prior to placing the fabric or geogrid, we recommend that all below grade construction, such as utility line installation, be completed to avoid damaging the fabric or geogrid. Equipment should not be operated above the fabric or geogrid until one full lift of crushed stone fill is placed above it. The maximum particle size of granular material placed over geotextile fabric or geogrid should not exceed 1-1/2 inches.
- **Chemical Modification** - Improvement of subgrades with Portland cement or class C fly ash could be considered for improving unstable soils. Chemical modification should be performed by a pre-qualified contractor having experience with successfully stabilizing subgrades in the project area on similar sized projects with similar soil conditions. Results of chemical analysis of the additive materials should be provided to the geotechnical engineer prior to use. The hazards of chemicals blowing across the site or onto adjacent property should also be considered. Additional testing would be needed to develop specific recommendations to improve subgrade stability by blending chemicals with the site soils. Additional testing could include, but not be limited to, determining the most suitable stabilizing agent, the optimum amounts required, the presence of sulfates in the soil, and freeze-thaw durability of the subgrade.
- **Shot Rock** – Clean, well graded shot rock can also be used to stabilize unstable subgrade. The thickness of "shot rock" required to achieve bridging of the unstable subgrade will depend upon the extent of subgrade stability. A test strip should be initially prepared at the site to determine the minimum required shot rock fill thickness to achieve subgrade stability. "Shot rock" particle size should not exceed 12 inches and should be compacted using a heavy-duty vibratory roller or D-6 size bulldozer.

Further evaluation of the need and recommendations for subgrade stabilization can be provided during construction as the geotechnical conditions are exposed.

Fill Material Types

Fill required to achieve design grade should be classified as engineered fill and general fill. Engineered fill is material used below, or within 10 feet of structures, and pavements, concrete slabs or constructed slopes. General fill is material used to achieve grade outside of these areas.

Fill materials should meet the following material property requirements. Regardless of its source, compacted fill should consist of approved materials that are free of organic matter and debris. Frozen material should not be used, and fill should not be placed on a frozen subgrade.

Soil Type [1]	USCS Classification	Acceptable Parameters (for Engineered Fill)	Acceptable Parameters (for General Fill)
Low Plasticity Cohesive	CL, CL-ML	Liquid Limit less than 50 Plasticity index less than 30 Can be used in all areas except where confined footing undercut prevents compactive efforts	Can be used in all areas
High Plasticity Cohesive	CH	Liquid limit greater than 50 but less than 60 Plasticity index less than 38 Not recommended within upper 2 feet of finished subgrade.	Can be used in all areas
Granular	GW[2]	Less than 50% passing No. 200 sieve Can be used in all areas except where confined footing undercut prevents compactive efforts	Can be used in all areas

Soil Type [1]	USCS Classification	Acceptable Parameters (for Engineered Fill)	Acceptable Parameters (for General Fill)
Clean well graded processed rock, shot rock, or surge stone	--	Max. rock size 8 (surge) to 12 inches (shot or processed) Can be used in all areas except in confined footing undercut areas prevents compactive efforts	Maximum rock size 2/3 of the lift thickness

1. Engineered and general fill should consist of approved materials free of organic matter and debris. Frozen material should not be used, and fill should not be placed on a frozen subgrade. A sample of each material type should be submitted to the Geotechnical Engineer for evaluation prior to use on this site.
2. Similar to TDOT Section 903.05 Type A, Grading D crushed limestone aggregate, limestone screenings, or granular material such as well graded gravel or crushed stone.

Fill Placement and Compaction Requirements

Engineered and general fill should meet the following compaction requirements.

Item	Engineered Fill	General Fill
Maximum Lift Thickness	8 inches or less in loose thickness when heavy, self-propelled compaction equipment is used 4 to 6 inches in loose thickness when hand-guided equipment (i.e. jumping jack or plate compactor) is used 12 to 18 inches for surge and "shot rock"[4]	Same as engineered fill
Minimum Compaction Requirements [1,2,3]	98% of max. below foundations, floor slabs, and pavements Surge and "shot rock" to be compacted with heavy-duty vibratory smooth drum roller or D-6 class dozer making ten passes (five in one direction and 5 at right angle to initial passes)	92% of max.

Item	Engineered Fill	General Fill
Water Content Range [1]	Low plasticity cohesive: -1% to +3% of optimum High plasticity cohesive: 0 to +3% of optimum Granular: -2% to +2% of optimum	As required to achieve min. compaction requirements

1. Maximum density and optimum water content as determined by the standard Proctor test (ASTM D 698).
2. High plasticity cohesive fill should not be compacted to more than 100% of standard Proctor maximum dry density.
3. If the granular material is a coarse sand or gravel, or of a uniform size, or has a low fines content, compaction comparison to relative density may be more appropriate. In this case, granular materials should be compacted to at least 70% relative density (ASTM D 4253 and D 4254). Materials not amenable to density testing should be placed and compacted to a stable condition observed by the Geotechnical Engineer or representative.
4. Approval of surge and "shot rock" should be made prior to placement. Any rock fill containing more than 5% clay fines should not be used as engineered fill.

Utility Trench Backfill

Any soft or unsuitable materials encountered at the bottom of utility trench excavations should be removed and replaced with engineered fill or bedding material in accordance with public works specifications for the utility be supported. This recommendation is particularly applicable to utility work requiring grade control and/or in areas where subsequent grade raising could cause settlement in the subgrade supporting the utility. Trench excavation should not be conducted below a downward 1:1 projection from existing foundations without engineering review of shoring requirements and geotechnical observation during construction.

Trench backfill should be mechanically placed and compacted as discussed earlier in this report. Compaction of initial lifts should be accomplished with hand-operated tampers or other lightweight compactors. Where trenches are placed beneath slabs or footings, the backfill should satisfy the gradation and expansion index requirements of engineered fill discussed in this report. Flooding or jetting for placement and compaction of backfill is not recommended.

For low permeability subgrades, utility trenches are a common source of water infiltration and migration. Utility trenches penetrating beneath the building should be effectively sealed to restrict water intrusion and flow through the trenches, which could migrate below the building. The trench should provide an effective trench plug that extends at least 5 feet from the face of the building exterior. The plug material should

consist of cementitious flowable fill or low permeability clay. The trench plug material should be placed to surround the utility line. If used, the clay trench plug material should be placed and compacted to comply with the water content and compaction recommendations for engineered fill stated previously in this report.

Grading and Drainage

All grades must provide effective drainage away from the building during and after construction and should be maintained throughout the life of the structure. Water retained next to the building can result in soil movements greater than those discussed in this report. Greater movements can result in unacceptable differential floor slab and/or foundation movements, cracked slabs and walls, and roof leaks. The roof should have gutters/drains with downspouts that discharge onto splash blocks at a distance of at least 10 feet from the building.

Exposed ground should be sloped and maintained at a minimum 5% away from the building for at least 10 feet beyond the perimeter of the building. Locally, flatter grades may be necessary to transition ADA access requirements for flatwork. After building construction and landscaping have been completed, final grades should be verified to document effective drainage has been achieved. Grades around the structure should also be periodically inspected and adjusted, as necessary, as part of the structure's maintenance program. Where paving or flatwork abuts the structure, a maintenance program should be established to effectively seal and maintain joints and prevent surface water infiltration.

Earthwork Construction Considerations

Shallow excavations for the proposed structure are anticipated to be accomplished with conventional construction equipment. Upon completion of filling and grading, care should be taken to maintain the subgrade water content prior to construction floor slabs and pavements. Construction traffic over the completed subgrades should be avoided. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. Water collecting over or adjacent to construction areas should be removed. If the subgrade freezes, desiccates, saturates, or is disturbed, the affected material should be removed, or the materials should be scarified, moisture conditioned, and recompacted prior to floor slab construction.

Utility cuts and excavations for retaining walls are anticipated to engage bedrock consisting of moderately weathered to unweathered limestone bedrock. Considering the presence of shallow bedrock in the borings with some localized areas of expected cuts near retaining walls, we expect rock excavation techniques will be required. Rippability of the bedrock will vary across the site depending on rock quality and depth of excavation. Highly weathered limestone is expected to be rippable with heavy-duty

machinery. Relatively intact bedrock, or rock with high RQD values, will require use of rock excavation equipment such as hoe-rams, jack hammers, and rock trenchers to achieve desired finished grades and/or excavation depths. The client should review with their selected contractor regarding the various means and methods for removal on this site and for specific structures.

Weathered slots (cutters) or joints within limestone bedrock due to solution weathering are common in the geological setting present at the site. Any intervening soil or existing fill which remains at the finished foundation bearing subgrade should be removed (by hand tools) and replaced with lean concrete to provide uniform bearing for spread footings. Our understanding of the plans as well as the information obtained from borings suggest that rock bearing shallow spread footings would be appropriate.

Any areas where subgrade is cut to final grade within 1 to 2 feet of bedrock should be expected to be unstable and will require further undercutting to bedrock. The contractor should be prepared to perform additional undercut where soils just above the rock surface contain a high water content. Backfill at these locations typically requires a granular fill or clean shot rock.

As a minimum, excavations should be performed in accordance with OSHA 29 CFR, Part 1926, Subpart P, "Excavations" and its appendices, and in accordance with any applicable local and/or state regulations.

Construction site safety is the sole responsibility of the contractor who controls the means, methods, and sequencing of construction operations. Under no circumstances shall the information provided herein be interpreted to mean Terracon is assuming responsibility for construction site safety or the contractor's activities; such responsibility shall neither be implied nor inferred.

Shallow excavations in the upper soil overburden are anticipated to be accomplished with conventional construction equipment. Rock excavation techniques will be required upon encountering bedrock below soil overburden.

Construction Observation and Testing

The earthwork efforts should be observed by the Geotechnical Engineer (or others under their direction). Observation should include documentation of adequate removal of surficial materials (vegetation, topsoil, and pavements), evaluation and remediation of existing fill materials, as well as proofrolling and mitigation of unsuitable areas delineated by the proofroll.

Each lift of compacted fill should be tested, evaluated, and reworked, as necessary, as recommended by the Geotechnical Engineer prior to placement of additional lifts. Each lift of fill should be tested for density and water content at a frequency of at least one

test for every 2,500 square feet of compacted fill in the building areas and 5,000 square feet in pavement areas. Where not specified by local ordinance, one density and water content test should be performed for every 100 linear feet of compacted utility trench backfill and a minimum of one test performed for every 10 vertical inches of compacted backfill.

In areas of foundation excavations, the bearing subgrade should be evaluated by the Geotechnical Engineer. For bedrock supported foundations, a probe hole for scratch testing of the bedrock should be installed by the contractor at the bottom of the planned footing elevations for the Geotechnical Engineer's use. The hole should be a minimum of 2-inches in diameter and extend a depth equal to at least two times the foundation width and not less than 6-feet. If unanticipated conditions are observed, the Geotechnical Engineer should prescribe mitigation options.

In addition to the documentation of the essential parameters necessary for construction, the continuation of the Geotechnical Engineer into the construction phase of the project provides the continuity to maintain the Geotechnical Engineer's evaluation of subsurface conditions, including assessing variations and associated design changes.

Shallow Foundations

If the site has been prepared in accordance with the requirements noted in **Earthwork**, the following design parameters are applicable for shallow foundations.

Design Parameters – Compressive Loads

Description	Column	Wall
Max. net allowable bearing pressure [1]	2,000 psf	2,000 psf
Minimum dimensions	30 inches	18 inches
Minimum embedment below finished grade for frost protection [2]	18 inches	18 inches
Approximate total settlement [3]	<1 inch	<1 inch
Estimated differential settlement	<¾ inch between columns	<¾ inch over 40 feet
Equivalent Fluid Pressures [4]	295 pcf (cohesive backfill) 390 pcf (granular backfill)	
Ultimate coefficient of sliding friction [4]	0.35 for soil or engineered fill (0.5 for granular fill or rock)	

Description	Column	Wall

1. The recommended net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. Assumes subgrade will be prepared to address existing fill and any low strength soils as outlined herein.
2. This is recommended for perimeter footings and footings beneath unheated areas to reduce the effects of seasonal moisture variations in the subgrade soils.
3. The foundation settlement will depend upon the variations within the subsurface soil profile, the structural loading conditions, the embedment depth of the footings, the thickness of the compacted fill, and the quality of the earthwork operations. This assumes that soil bearing subgrade will be addressed as outlined herein. These values do not take into account any foundation movement instigated by karst related ground subsidence.
4. The sides of the excavation for spread footings must be nearly vertical and the concrete should be placed neat against these vertical faces for the passive earth pressure value to be valid. If the loaded side is sloped or benched, and then backfilled, the allowable passive pressure will be significantly reduced. Passive resistance in the upper 2 feet of the soil profile should be neglected. Lateral resistance due to friction at the base of the footing should be ignored where uplift also occurs. The above ultimate equivalent fluid pressure values are based on soil unit weight of 120 pcf.

Design Parameters – Overturning and Uplift Loads

Shallow foundations subjected to overturning loads should be proportioned such that the resultant eccentricity is maintained in the center-third of the foundation (e.g., e < b/6, where b is the foundation width). This requirement is intended to keep the entire foundation area in compression during the extreme lateral/overturning load event. Foundation oversizing may be required to satisfy this condition.

Uplift resistance of spread footings can be developed from the effective weight of the footing and the overlying soils with consideration to the IBC basic load combinations.

Item	Description
Soil Moist Unit Weight	100 pcf
Soil Effective Unit Weight[1]	40 pcf
Soil weight included in uplift resistance	Soil included within the prism extending up from the top perimeter of the footing at an angle of 20 degrees from vertical to ground surface

Item	Description

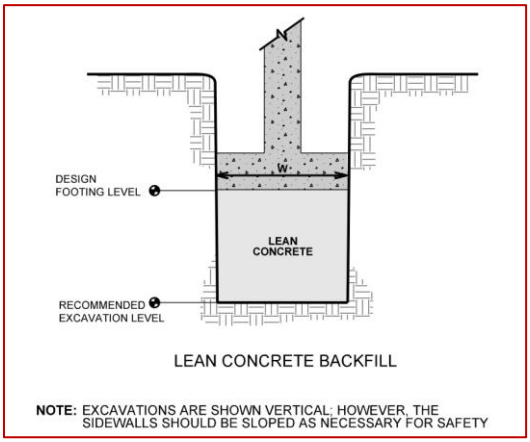
1. Effective (or buoyant) unit weight should be used for soil above the foundation level and below a water level. The high groundwater level should be used in uplift design as applicable.

Foundation Construction Considerations

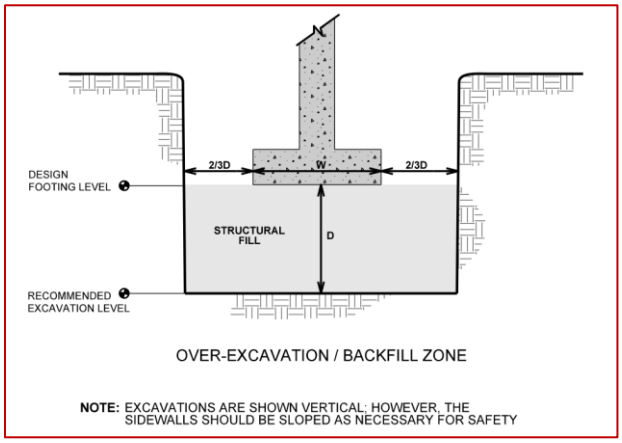
As noted in **Earthwork**, the footing excavations should be evaluated under the observation of the Geotechnical Engineer. The base of all foundation excavations should be free of water and loose soil/rock, prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Care should be taken to prevent wetting or drying of the bearing materials during construction. Excessively wet or dry material or any loose/disturbed material in the bottom of the footing excavations should be removed/reconditioned before foundation concrete is placed.

Based on our borings and provided site plan, we expect some of the retaining wall foundation excavations will engage the bedrock surface at the foundation bearing elevation, which would result in footings bearing on dissimilar materials (bedrock vs. soil) across a short distance. This situation is expected to create potential for differential settlement equal to total settlement and possibly minor cracking in masonry or cast-in-place walls due to the uneven support and dissimilar subgrades between two extremes. To help mitigate this potential, we recommend that where bedrock is exposed in isolated areas, overexcavate the bedrock 2 feet below planned foundation bearing elevation and backfill with a compacted cohesive soil; or where soil pockets are exposed in predominantly bedrock bearing subgrade, the soil should be removed to bedrock and the undercut area backfilled with flowable fill (Min. 300 psi strength) or compacted engineered rock fill. Alternatively, footings may bear the entire wall length between expansion joints on similar materials, either rock or soil.

If unsuitable bearing soils are observed at the base of the planned footing excavation, the excavation should be extended deeper to suitable soils, and the footings could bear directly on these soils at the lower level or on lean concrete backfill placed in the excavations. The lean concrete replacement zone is illustrated on the sketch below.



Overexcavation for engineered fill placement below footings should be conducted as shown below. The overexcavation should be backfilled up to the footing base elevation, with engineered fill placed, as recommended in the **Earthwork** section.



Experience has indicated that rock formations which can be penetrated with geotechnical drill flight augers can sometimes be excavated using heavy duty construction equipment such as large backhoes with rock teeth or ripper equipped dozers. Excavation in rock formations which cannot be penetrated with geotechnical drill flight augers is usually much more difficult and often requires the use of other techniques such as pneumatic breakers. Rippability of the bedrock will vary, and the use of jackhammers and other rock excavation equipment and/or methods are anticipated be required to reach the anticipated excavation depths. Heaved or dislodged fragments of bedrock should not remain in place as they pose a risk for unpredictable settlement and potential void collapse.

Floor Slabs

Design parameters for floor slabs assume the requirements for **Earthwork** have been followed. Specific attention should be given to positive drainage away from the structure and positive drainage of the aggregate base beneath the floor slab.

Depending upon the finished floor elevation, unsuitable, weak, and/or soft to medium stiff soils may be observed at the floor slab subgrade level. These soils should be replaced with engineered fill so the floor slab is supported on at least 2 feet of compacted suitable natural soils or engineered fill.

Floor Slab Design Parameters

Item	Description
Floor Slab Support[1]	Use minimum 4 inches base course meeting material specifications of ACI 302and compacted to at least 98% of ASTM D698 Subgrade prepared and compacted to recommendations in **Earthwork**
Estimated Modulus of Subgrade Reaction [2]	100 pounds per square inch per inch (psi/in) for point loads

1. Floor slabs should be structurally independent of building footings or walls to reduce the possibility of floor slab cracking caused by differential movements between the slab and foundation.
2. Modulus of subgrade reaction is an estimated value based upon our experience with the subgrade condition, the requirements noted in **Earthwork**, and the floor slab support as noted in this table. It is provided for point loads. For large area loads the modulus of subgrade reaction would be lower.

The use of a vapor retarder should be considered beneath concrete slabs on grade covered with wood, tile, carpet, or other moisture sensitive or impervious coverings, when the project includes humidity-controlled areas, or when the slab will support equipment sensitive to moisture. When conditions warrant the use of a vapor retarder, the slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding the use and placement of a vapor retarder.

Saw-cut contraction joints should be placed in the slab to help control the location and extent of cracking. For additional recommendations, refer to the ACI Design Manual. Joints or cracks should be sealed with a waterproof, non-extruding compressible

compound specifically recommended for heavy duty concrete pavement and wet environments.

Where floor slabs are tied to perimeter walls or turn-down slabs to meet structural or other construction objectives, our experience indicates differential movement between the walls and slabs will likely be observed in adjacent slab expansion joints or floor slab cracks beyond the length of the structural dowels. The Structural Engineer should account for potential differential settlement through use of sufficient control joints, appropriate reinforcing or other means.

Floor Slab Construction Considerations

Finished subgrade, within and for at least 10 feet beyond the floor slab, should be protected from traffic, rutting, or other disturbance and maintained in a relatively moist condition until floor slabs are constructed. If the subgrade should become damaged or desiccated prior to construction of floor slabs, the affected material should be removed, and engineered fill should be added to replace the resulting excavation. Final conditioning of the finished subgrade should be performed immediately prior to placement of the floor slab support course.

Prior to construction of grade supported slabs, varying levels of remediation may be required to reestablish stable subgrades within slab areas due to construction traffic, rainfall, disturbance, desiccation, etc. As a minimum, the following measures are recommended.

- Confirm that interior trench backfill placed beneath slabs is compacted in accordance with recommendations outlined in this report.
- All floor slab subgrade areas should be moisture-conditioned and properly compacted to the recommendations in this report immediately prior to placement of the stone base and concrete.

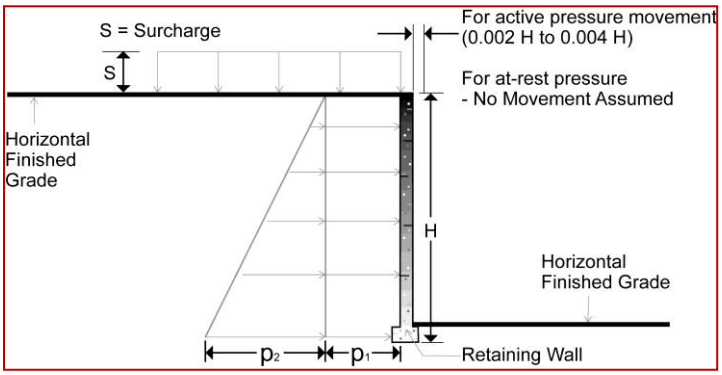
The Geotechnical Engineer should observe the condition of the floor slab subgrades immediately prior to placement of the floor slab support course, reinforcing steel, and concrete. Attention should be paid to high traffic areas that were rutted and disturbed earlier, and to areas where backfilled trenches are located.

Lateral Earth Pressures

Design Parameters

Structures with unbalanced backfill levels on opposite sides should be designed for earth pressures at least equal to values indicated in the following table. Earth pressures will be

influenced by structural design of the walls, conditions of wall restraint, methods of construction, and/or compaction and the strength of the materials being restrained. Two wall restraint conditions are shown in the diagram below. Active earth pressure is commonly used for design of free-standing cantilever retaining walls and assumes wall movement. The "at-rest" condition assumes no wall movement and is commonly used for basement walls, loading dock walls, or other walls restrained at the top. The recommended design lateral earth pressures do not include a factor of safety and do not provide for possible hydrostatic pressure on the walls (unless stated).



Lateral Earth Pressure Design Parameters

Earth Pressure Condition [1]	Coefficient for Backfill Type [2]	Surcharge Pressure [3] p_1 (psf)	Equivalent Fluid Pressures (psf) [2,4]	
			Unsaturated [5]	Submerged [5]
Active (Ka)	Granular - 0.31 Fine Grained - 0.41	(0.31)S (0.41)S	(40)H (50)H	(80)H (85)H
At-Rest (Ko)	Granular - 0.47 Fine Grained - 0.58	(0.47)S (0.58)S	(55)H (70)H	(90)H (95)H
Passive (Kp)	Granular – 3.25 Fine Grained – 2.46	--- ---	(390)H (295)H	(250)H (205)H

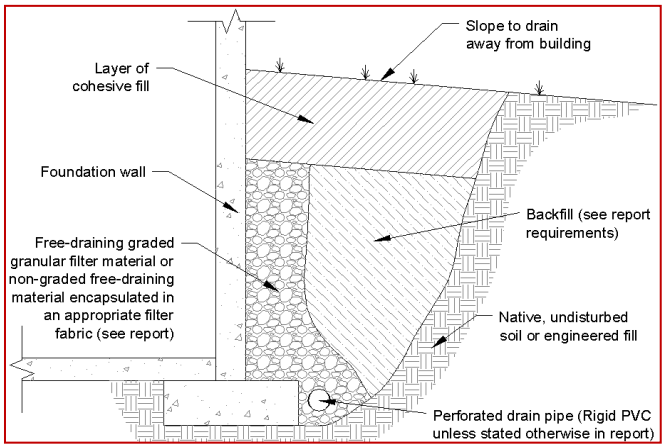
1. For active earth pressure, wall must rotate about base, with top lateral movements 0.002 H to 0.004 H, where H is wall height. For passive earth pressure, wall must move horizontally to mobilize resistance. Fat clay or other expansive soils should not be used as backfill behind the wall.
2. Uniform, horizontal backfill, with a maximum unit weight of 120 pcf for cohesive soils and granular soils.
3. Uniform surcharge, where S is surcharge pressure.
4. Loading from heavy compaction equipment is not included.
5. To achieve "Unsaturated" conditions, follow guidelines in **Subsurface Drainage for Below-Grade Walls** below. "Submerged" conditions are recommended when drainage behind walls is not incorporated into the design.

Backfill placed against structures should consist of granular soils or low plasticity cohesive soils. For the granular values to be valid, the granular backfill must extend out and up from the base of the wall at an angle of at least 45 degrees from vertical for the active case.

The lateral earth pressure recommendations given in this section are applicable to the design of rigid retaining walls subject to slight rotation, such as cantilever, or gravity type concrete walls. These recommendations are not applicable to the design of modular block - geogrid reinforced backfill walls (also termed MSE walls). Recommendations covering these types of wall systems are beyond the scope of services for this assignment. However, we would be pleased to develop a proposal for evaluation and design of such wall systems upon request.

Subsurface Drainage for Below-Grade Walls

A perforated rigid plastic drain line installed behind the base of walls and extends below adjacent grade is recommended to prevent hydrostatic loading on the walls. The invert of a drain line around a below-grade building area or exterior retaining wall should be placed near foundation bearing level. The drain line should be sloped to provide positive gravity drainage to daylight or to a sump pit and pump. The drain line should be surrounded by clean, free-draining granular material having less than 5% passing the No. 200 sieve, such as No. 57 aggregate. The free-draining aggregate should be encapsulated in a filter fabric. The granular fill should extend to within 2 feet of final grade, where it should be capped with compacted cohesive fill to reduce infiltration of surface water into the drain system.



As an alternative to free-draining granular fill, a prefabricated drainage structure may be used. A prefabricated drainage structure is a plastic drainage core or mesh which is covered with filter fabric to prevent soil intrusion and is fastened to the wall prior to placing backfill.

Pavements

General Pavement Comments

Pavement designs are provided for the traffic conditions and pavement life conditions as noted in **Project Description** and in the following sections of this report. A critical aspect of pavement performance is site preparation. Pavement designs noted in this section must be applied to the site which has been prepared as recommended in the **Earthwork** section. The section thicknesses and traffic conditions in this report do not account for construction traffic, incomplete placement of the full pavement section, or loads beyond what was assumed or provided. If the contractor or owners are aware or require additional sections or traffic count considerations, Terracon should be provided that information for our review.

Pavement Design Parameters

Traffic patterns and anticipated loading conditions were not available. However, we anticipate that traffic loads will be produced primarily by automobile traffic and a limited number of delivery and trash removal trucks. Two pavement section alternatives have been provided. The light duty section is for areas that receive only car traffic. The heavy-duty section assumes car traffic and 10 delivery vehicles and two trash removal trucks per week. If heavier traffic loading is expected, this office should be provided with the information and allowed to review these pavement sections. A design life of 20 years was assumed to develop the total traffic used in thickness design. A California Bearing Ratio (CBR) value of 4 has been estimated for the approved stable onsite clayey soils or new engineered fill for flexible pavement design. To help obtain this CBR value in the field, the upper 12 inches of pavement subgrades should be compacted to at least 98 percent of the standard Proctor density at moisture content within -1 to +2 percent of its optimum moisture. A modulus of subgrade reaction of 125 pci was use for the PCC pavement designs. The values were empirically derived based upon our experience with the describe soil type subgrade soils and our understanding of the quality of the subgrade as prescribed by the **Site Preparation** conditions as outlined in **Earthwork**. A modulus of rupture of 580 psi was used for pavement concrete.

Climatic conditions are considered in the design subgrade support value listed above and in the paving material characteristics. Recommended paving material characteristics, taken from the Tennessee Department of Transportation's (TDOT) latest edition of Standard Specifications for Road and Bridge Construction are included for the asphalt concrete sections.

Pavement Section Thicknesses

The following table provides our estimated minimum thickness of PCC pavements.

Layer	Asphaltic Concrete Design Thickness (inches)	
	Light Duty [1]	Heavy Duty [1]
AC Surface [2]	1 ½	1 ½
AC Binder [2]	1 ½	2 ½
Aggregate Base [2]	6	8

1. See **Project Description** and design parameters discussed in the previous section for more specifics regarding Light Duty and Heavy-Duty traffic.
2. All materials should meet the current State of TN department of Transportation (TDOT) Standard Specifications for Highway and Bridge Construction.
   - Asphaltic Surface – TDOT Section 903.11 for Surface Course, Grading E
   - Asphaltic Base – TDOT Section 903.06 for Hot Mix Asphalt Leveling Course, Grading B-M
   - Section 903.05 for Aggregate Base Course material, Class A, Grading D
   - A minimum 1.5-inch surface course should be used on ACC pavements

The following table provides our estimated minimum thickness of PCC pavements.

Layer	Portland Cement Concrete Design Thickness (inches)		
	Light Duty [1]	Heavy Duty [1]	Dumpster Approach/Apron [3]
PCC [2,4]	5	6½	7
Aggregate Base [2]	4	4	4

1. See **Project Description** and design parameters discussed in the previous section for more specifics regarding traffic classifications.
2. All materials should meet the current Tennessee Department of Transportation (TDOT) Standard Specifications for Highway and Bridge Construction.
3. In areas of anticipated heavy traffic, fire trucks, delivery trucks, or concentrated loads (e.g., dumpster approach/apron), and areas with repeated

Layer	Portland Cement Concrete Design		
	Thickness (inches)		
	Light Duty [1]	Heavy Duty [1]	Dumpster Approach/Apron [3]

turning or maneuvering of heavy vehicles. Additional steel reinforcement within aprons is not common but the use of dowels at the connection of aprons to dumpster pads may help alleviate potential cracking from concentrated wheel loads.

4. Portland cement concrete should be 4,000 psi compressive strength at 28 days. PCC pavements are recommended for trash container pads and in any other areas subjected to heavy wheel loads and/or turning traffic such as entrance aprons.

Areas for parking of heavy vehicles, concentrated turn areas, and start/stop maneuvers could require thicker pavement sections. Edge restraints (i.e. concrete curbs or aggregate shoulders) should be planned along curves and areas of maneuvering vehicles.

Although not required for structural support, a minimum 4-inch-thick base course layer is recommended to help reduce potential for slab curl, shrinkage cracking, and subgrade pumping through joints. Proper joint spacing will also be required to prevent excessive slab curling and shrinkage cracking. Joints should be sealed to prevent entry of foreign material and doweled where necessary for load transfer. PCC pavement details for joint spacing, joint reinforcement, and joint sealing should be prepared in accordance with ACI 330 and ACI 325.

Where practical, we recommend early-entry cutting of crack-control joints in PCC pavements. Cutting of the concrete in its "green" state typically reduces the potential for micro-cracking of the pavements prior to the crack control joints being formed, compared to cutting the joints after the concrete has fully set. Micro-cracking of pavements may lead to crack formation in locations other than the sawed joints, and/or reduction of fatigue life of the pavement.

Openings in pavements, such as decorative landscaped areas, are sources for water infiltration into surrounding pavement systems. Water can collect in the islands and migrate into the surrounding subgrade soils thereby degrading support of the pavement. Islands with raised concrete curbs, irrigated foliage, and low permeability near-surface soils are particular areas of concern. The civil design for the pavements with these conditions should include features to restrict or collect and discharge excess water from the islands. Examples of features are edge drains connected to the stormwater collection system, longitudinal subdrains, or other suitable outlets and impermeable barriers preventing lateral migration of water such as a cutoff wall installed to a depth below the pavement structure.

Pavement Drainage

Pavements should be sloped to provide rapid drainage of surface water. Water allowed to pond on or adjacent to the pavements could saturate the subgrade and contribute to premature pavement deterioration. In addition, the pavement subgrade should be graded to provide positive drainage within the granular base section. Appropriate sub-drainage or connection to a suitable daylight outlet should be provided to remove water from the granular subbase.

Pavement Maintenance

The pavement sections represent minimum recommended thicknesses and, as such, periodic upkeep should be anticipated. Preventive maintenance should be planned and provided for through an on-going pavement management program. Maintenance activities are intended to slow the rate of pavement deterioration and to preserve the pavement investment. Pavement care consists of both localized (e.g., crack and joint sealing and patching) and global maintenance (e.g., surface sealing). Additional engineering consultation is recommended to determine the type and extent of a cost-effective program. Even with periodic maintenance, some movements and related cracking may still occur, and repairs may be required.

Pavement performance is affected by its surroundings. In addition to providing preventive maintenance, the civil engineer should consider the following recommendations in the design and layout of pavements:

- Final grade adjacent to paved areas should slope down from the edges at a minimum 2%.
- Subgrade and pavement surfaces should have a minimum 2% slope to promote proper surface drainage.
- Install pavement drainage systems surrounding areas anticipated for frequent wetting.
- Install joint sealant and seal cracks immediately.
- Seal all landscaped areas in or adjacent to pavements to reduce moisture migration to subgrade soils.
- Place compacted, low permeability backfill against the exterior side of curb and gutter.
- Place curb, gutter and/or sidewalk directly on clay subgrade soils rather than on unbound granular base course materials.

General Comments

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration.

Variations will occur between exploration point locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in this report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly affect excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety and cost estimating including excavation support and dewatering requirements/design are the responsibility of others. Construction and site development have the potential to affect adjacent properties. Such impacts can include damages due to vibration, modification of groundwater/surface water flow during construction, foundation movement due to undermining or subsidence from excavation, as well as noise or air quality concerns. Evaluation of these items on nearby properties are commonly associated with contractor means and methods and are not addressed in this report. The owner and contractor should consider a preconstruction/precondition survey of surrounding development. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

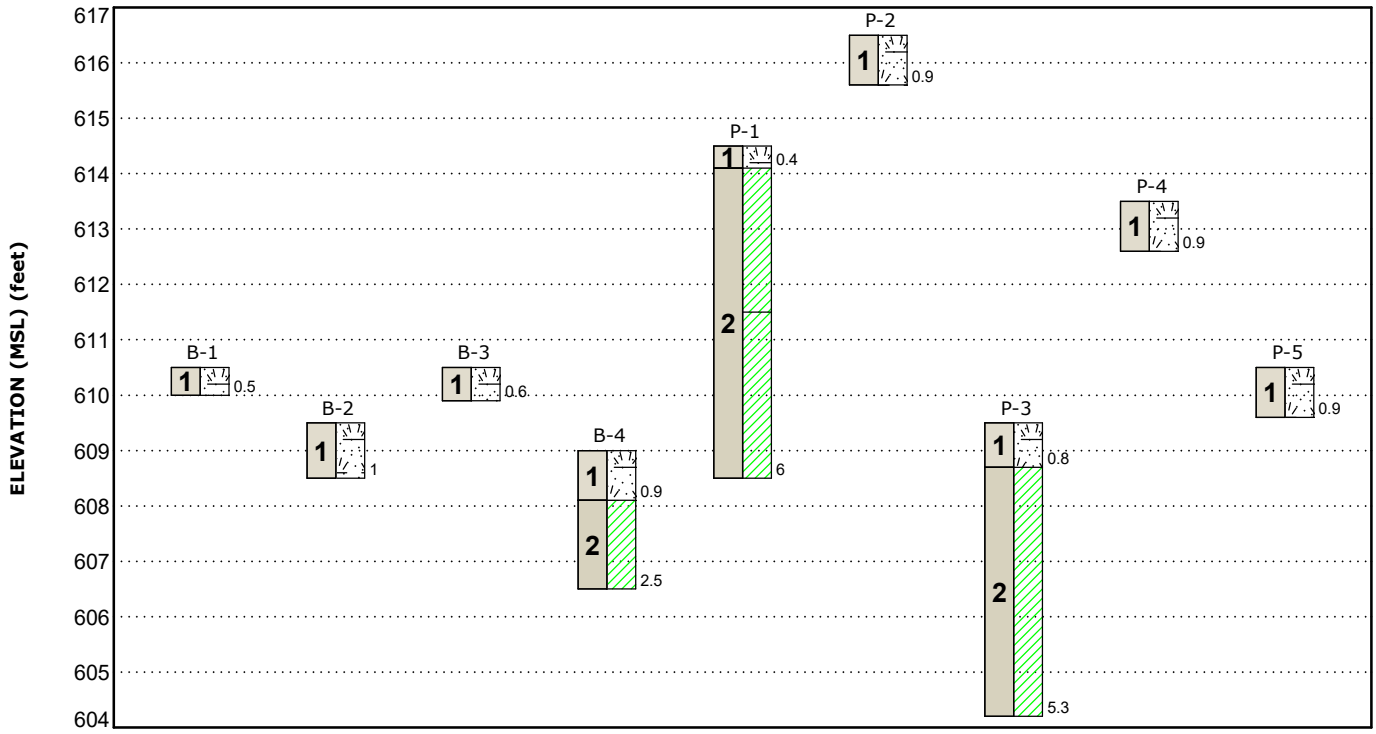
Figures

Contents:

GeoModel

1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

GeoModel



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	Surface Cover	4 to 12 inches of topsoil
2	Native Soils	Lean clay with some limestone fragments and trace organics

Legend

Topsoil

Lean Clay

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

Attachments

Exploration and Testing Procedures

Field Exploration

Number of Exploration Points	Approximate Exploration Depth (feet)	Location
4	½ to 2 ½	buildings
5	1 to 6	pavement / utilities

Boring Layout and Elevations: Terracon personnel provided the boring layout using handheld GPS equipment (estimated horizontal accuracy of about ±10 feet) and referencing existing site features. Approximate ground surface elevations were obtained by interpolation from the provided topographic site plan. If elevations and a more precise boring layout are desired, we recommend borings be surveyed.

Subsurface Exploration Procedures: We advanced the borings with a truck-mounted rotary drill rig using continuous flight augers (solid stem and/or hollow stem, as necessary, depending on soil conditions). Four samples were obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. In the split-barrel sampling procedure, a standard 2-inch outer diameter split-barrel sampling spoon was driven into the ground by a 140-pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18-inch penetration is recorded as the Standard Penetration Test (SPT) resistance value. The SPT resistance values, also referred to as N-values, are indicated on the boring logs at the test depths. We observed and recorded groundwater levels during drilling and sampling. For safety purposes, all borings were backfilled with auger cuttings after their completion.

We also observed the boreholes at the completion of drilling for the presence of groundwater. Groundwater was not observed at these times in the boreholes.

The sampling depths, penetration distances, and other sampling information was recorded on the field boring logs. The samples were placed in appropriate containers and taken to our soil laboratory for testing and classification by a Geotechnical Engineer. Our exploration team prepared field boring logs as part of the drilling operations. These field logs included visual classifications of the materials observed during drilling and our interpretation of the subsurface conditions between samples. Final boring logs were prepared from the field logs. The final boring logs represent the Geotechnical Engineer's interpretation of the field logs and include modifications based on observations and tests of the samples in our laboratory.

Laboratory Testing

The project engineer reviewed the field data and assigned laboratory tests. The laboratory testing program included the following types of tests:

- Moisture Content
- Atterberg Limits

The laboratory testing program often included examination of soil samples by an engineer. Based on the results of our field and laboratory programs, we described and classified the soil samples in accordance with the Unified Soil Classification System.

Photography Log



Photo 1 B-1 Facing North



Photo 2 B-1 Facing South



Photo 3 B-2 Facing North



Photo 4 B-2 Facing South



Photo 5 B-3 Facing West



Photo 6 B-3 Facing East



Photo 7 B-4 Facing North



Photo 8 B-4 Facing South



Photo 9 P-1 Facing North



Photo 10 P-1 Facing South



Photo 11 P-2 Facing South



Photo 12 P-2 Facing North



Photo 13 P-3 Facing North



Photo 14 P-3 Facing South



Photo 15 P-4 Facing South



Photo 16 P-4 Facing North



Photo 17 P-5 Facing North



Photo 18 P-5 Facing South

Site Location and Exploration Plans

Contents:

Site Location Plan
Exploration Plan

Note: All attachments are one page unless noted above.

Site Location

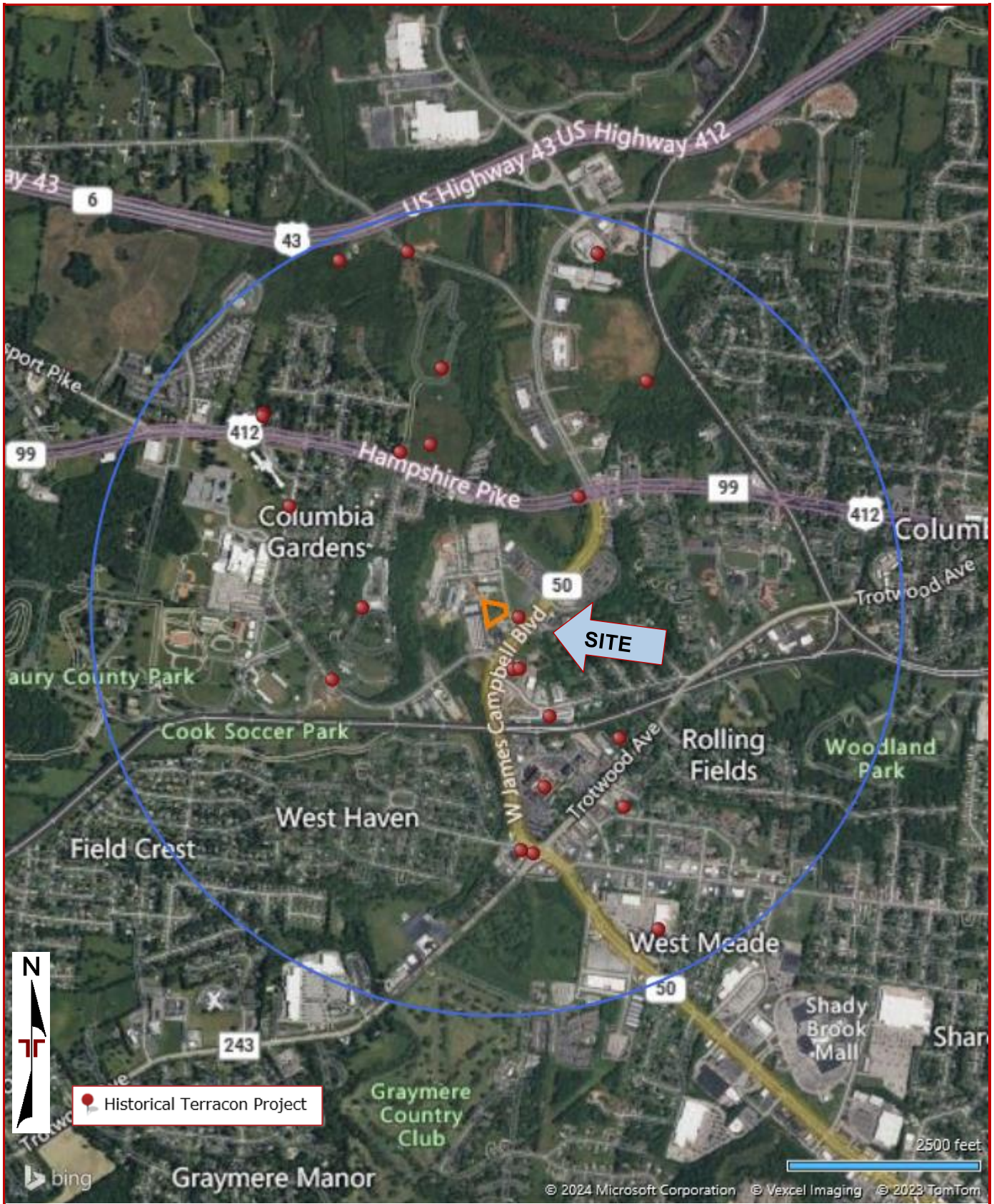


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES MAP PROVIDED BY MICROSOFT BING MAPS

Exploration Plan

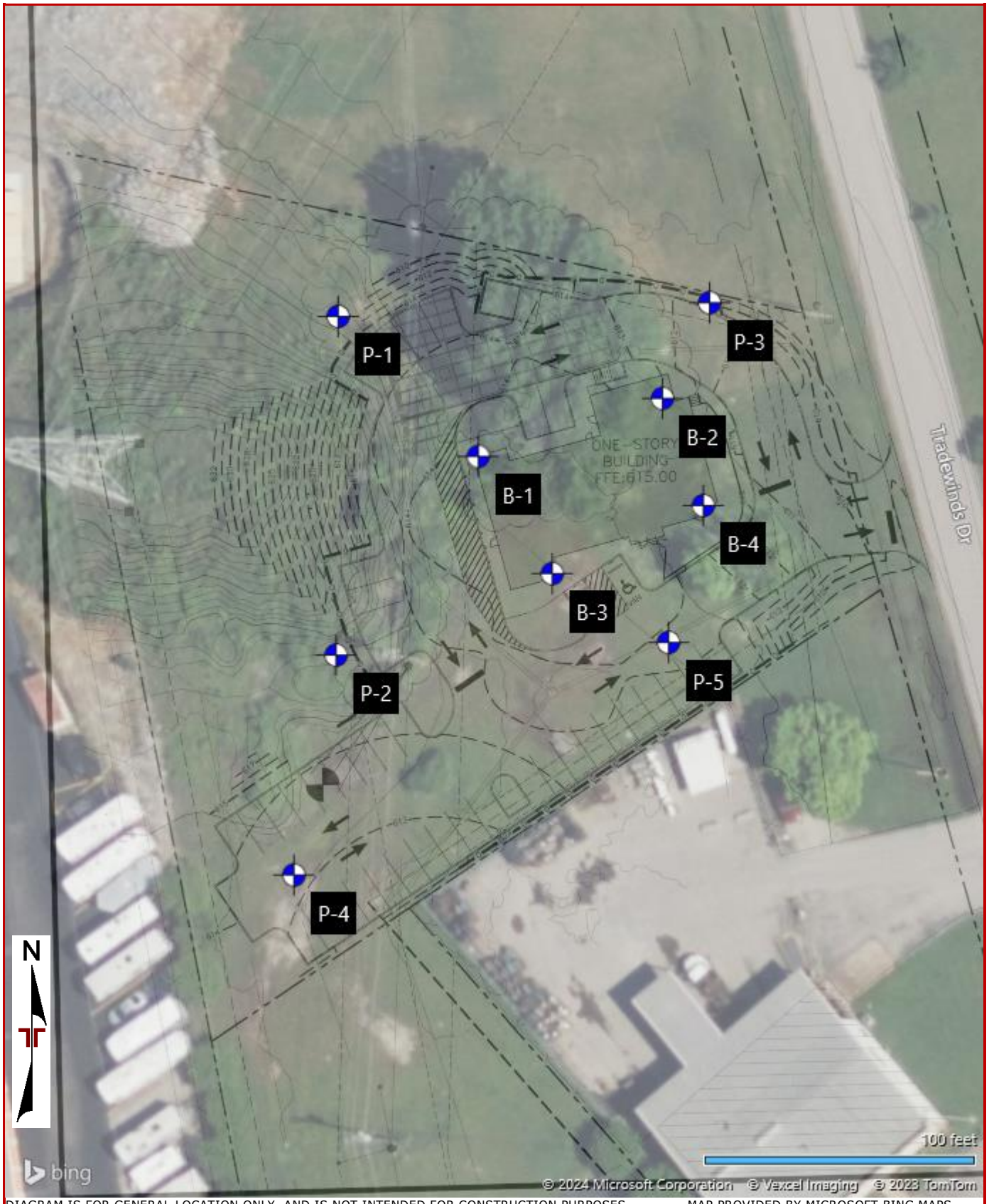


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES MAP PROVIDED BY MICROSOFT BING MAPS

Exploration and Laboratory Results

Contents:

Boring Logs (B-1 through P-5)
Atterberg Limits

Note: All attachments are one page unless noted above.

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. B-1

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 35.6133° Longitude: -87.0691° Depth (Ft.) Elevation: 610.5 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI	
1		**6" TOPSOIL** 0.5 610							
		Auger Refusal at 0.5 Foot **Offset 5 feet west auger refusal at 0.3 feet. Offset 5 feet south auger refusal at 0.3 feet**							

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-13-2023

Boring Completed

Notes
Elevation Reference: Elevations were interpolated from a topographic site plan.

Advancement Method
Hollow Stem Augers

Abandonment Method
Boring backfilled with Auger Cuttings

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. B-2

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 35.6134° Longitude: -87.0689° Depth (Ft.) Elevation: 609.5 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI
1		**12" TOPSOIL** 1.0 608.5						
		Auger Refusal at 1 Foot **Offset 5 feet west auger refusal at 0.9 feet. Offset 5 feet south auger refusal at 0.6 feet.**	1					

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-14-2023

Boring Completed

Notes
Elevation Reference: Elevations were interpolated from a topographic site plan.

Advancement Method
Hollow Stem Augers

Abandonment Method
Boring backfilled with Auger Cuttings

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. B-3

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 35.6132° Longitude: -87.0690° Depth (Ft.) Elevation: 610.5 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI
1		**7" TOPSOIL** 0.6 609.9						
		Auger Refusal at 0.6 Foot **Auger refusal at 0.4 feet. Offset 5 feet north auger refusal at 0.4 feet. Offset 5 feet west auger refusal at 0.6 feet.**						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-13-2023

Boring Completed

Notes
Elevation Reference: Elevations were interpolated from a topographic site plan.

Advancement Method
Hollow Stem Augers

Abandonment Method
Boring backfilled with Auger Cuttings

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. B-4

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 35.6133° Longitude: -87.0689° Depth (Ft.) — Elevation: 609 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI
1		**11" TOPSOIL** 0.9 — 608.1						
2		**LEAN CLAY (CL)**, trace chert, trace organics, brown, hard 2.5 — 606.5	1 2			4-5-50/3"	23.1	46-21-25
		Auger Refusal at 2.5 Feet **Offset 5 feet west auger refusal at 2 feet.**						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Notes
Elevation Reference: Elevations were interpolated from a topographic site plan.

Advancement Method
Hollow Stem Augers

Abandonment Method
Boring backfilled with Auger Cuttings

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-14-2023

Boring Completed

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. P-1

Location: See Exploration Plan

Latitude: 35.6135° Longitude: -87.0693°

Model Layer	Graphic Log	Depth (Ft.)	Elevation: 614.5 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI
1		0.4	**5" TOPSOIL** 614.1						
2		3.0	**LEAN CLAY (CL)**, trace organics, trace mineral nodules, yellow brown, medium stiff 611.5	1					
				2			2-3-3 N=6	24.6	
				3					
		6.0	**LEAN CLAY (CL)**, mineral staining, trace limestone rock fragments, trace chert, yellow brown, stiff 608.5	4			4-6-4 N=10	19.6	46-18-28
				5					
			Auger Refusal at 6 Feet	6					

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Notes
Elevation Reference: Elevations were interpolated from a topographic site plan.

Advancement Method
Hollow Stem Augers

Abandonment Method
Boring backfilled with Auger Cuttings

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-14-2023

Boring Completed

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. P-2

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 35.6131° Longitude: -87.0693° Depth (Ft.) Elevation: 616.5 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI
1		**11" TOPSOIL** 0.9 615.8						
		Auger Refusal at 0.9 Foot **Offset 5 feet North auger refusal at 0.5 feet. Offset 5 feet south auger refusal at 0.4 feet.**						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-13-2023

Boring Completed

Notes
Elevation Reference: Elevations were interpolated from a topographic site plan.

Advancement Method
Hollow Stem Augers

Abandonment Method
Boring backfilled with Auger Cuttings

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. P-3

Location: See Exploration Plan

Latitude: 35.6135° Longitude: -87.0689°

Depth (Ft.) | Elevation: 609.5 (Ft.) +/-

Model Layer	Graphic Log	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI
1		**10" TOPSOIL** 0.8 / 608.7					
2		**LEAN CLAY (CL)**, mineral staining, trace weathered rock, brown, stiff hard 5.3 / 604.2			4-4-5 N=9	17.3	
					4-50/3"	19.8	
		Auger Refusal at 5.3 Feet					

1
2
3
4
5

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Notes
Elevation Reference: Elevations were interpolated from a topographic site plan.

Advancement Method
Hollow Stem Augers

Abandonment Method
Boring backfilled with Auger Cuttings

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-14-2023

Boring Completed

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. P-4

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 35.6129° Longitude: -87.0694° Depth (Ft.) Elevation: 613.5 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI
1		**11" TOPSOIL** 0.9 612.6						
		Auger Refusal at 0.9 Foot **Auger refusal at 0.7 feet. Offset 5 feet east auger refusal at 0.9 feet. Offset 5 feet west auger refusal at 0.4 feet.**						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-13-2023

Boring Completed

Notes
Elevation Reference: Elevations were interpolated from a topographic site plan.

Advancement Method
Hollow Stem Augers

Abandonment Method
Boring backfilled with Auger Cuttings

Old Glory Restaurant
1200 Tradewind Dr | Columbia, TN
Terracon Project No. 18235306

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

Boring Log No. P-5

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 35.6132° Longitude: -87.0689° Depth (Ft.) Elevation: 610.5 (Ft.) +/-	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Atterberg Limits LL-PL-PI
1		**11" TOPSOIL** 0.9 609.6						
		Auger Refusal at 0.9 Foot **Offset 5 feet north auger refusal at 0.8 feet. Offset 5' feet east auger refusal at 0.7 feet.**						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Water Level Observations
Groundwater not encountered

Drill Rig
Truck

Hammer Type
Automatic

Driller
Master Drillers

Logged by
MM

Boring Started
12-13-2023

Boring Completed

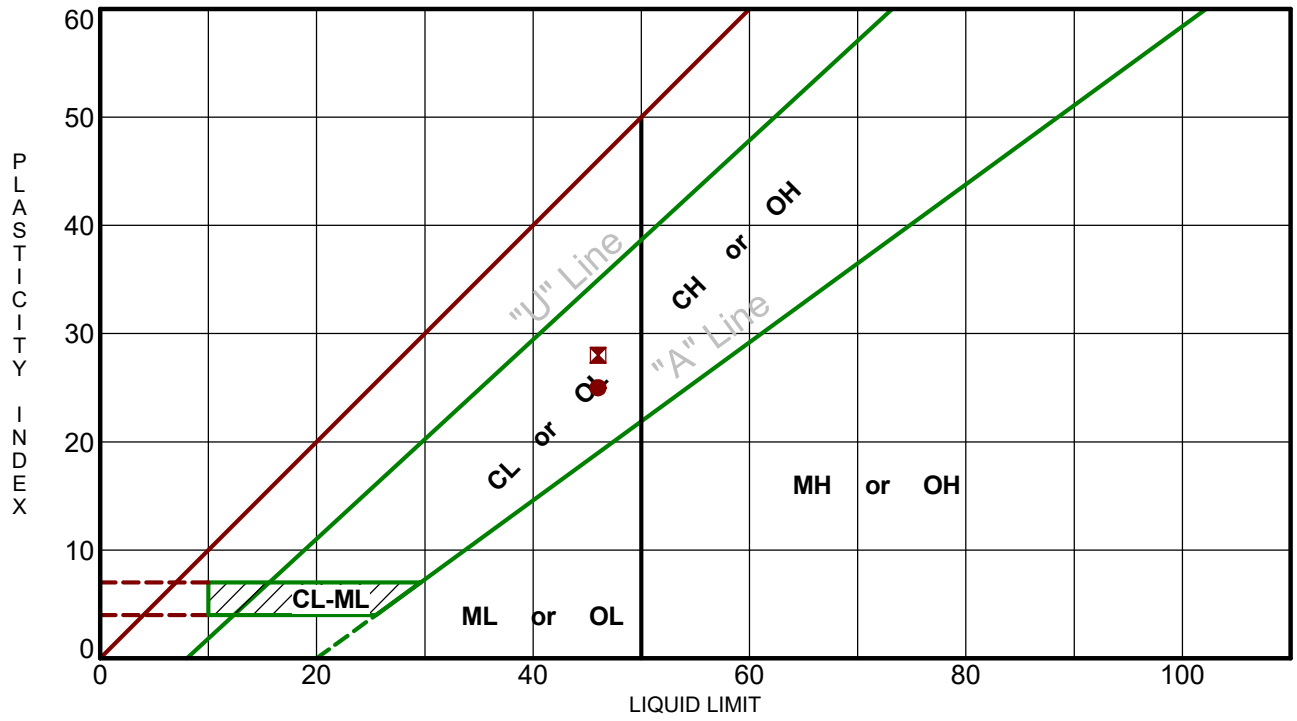
Notes
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Advancement Method
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ATTERBERG LIMITS RESULTS

ASTM D4318



Boring ID		Depth (Ft)	LL	PL	PI	Fines	USCS	Description
●	B-4	1 - 2.3	46	21	25		CL	CL- Lean CLAY
⊠	P-1	3.5 - 5	46	18	28		CL	CL- Lean CLAY

PROJECT: Old Glory Restaurant

SITE: 1200 Tradewind Dr
Columbia, TN

Terracon
1922 Old Murfreesboro Pike Ste 905
Nashville, TN

PROJECT NUMBER: 18235306

Columbia, TN

LABORATORY TESTS ARE NOT VALID IF SEPARATED FROM ORIGINAL REPORT. ATTERBERG LIMITS 18235306 OLD GLORY RESTAUR.GPJ TERRACON_DATATEMPLATE.GDT 12/26/23

Supporting Information

Contents:

General Notes
Unified Soil Classification System

Note: All attachments are one page unless noted above.

Terracon
1922 Old Murfreesboro Pike
Ste 905
Nashville, TN

General Notes

Sampling	Water Level	Field Tests
Standard Penetration Test	Water Initially Encountered Water Level After a Specified Period of Time Water Level After a Specified Period of Time Cave In Encountered Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.	N Standard Penetration Test Resistance (Blows/Ft.) (HP) Hand Penetrometer (T) Torvane (DCP) Dynamic Cone Penetrometer UC Unconfined Compressive Strength (PID) Photo-Ionization Detector (OVA) Organic Vapor Analyzer

Descriptive Soil Classification

Soil classification as noted on the soil boring logs is based Unified Soil Classification System. Where sufficient laboratory data exist to classify the soils consistent with ASTM D2487 "Classification of Soils for Engineering Purposes" this procedure is used. ASTM D2488 "Description and Identification of Soils (Visual-Manual Procedure)" is also used to classify the soils, particularly where insufficient laboratory data exist to classify the soils in accordance with ASTM D2487. In addition to USCS classification, coarse grained soils are classified on the basis of their in-place relative density, and fine-grained soils are classified on the basis of their consistency. See "Strength Terms" table below for details. The ASTM standards noted above are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

Location And Elevation Notes

Exploration point locations as shown on the Exploration Plan and as noted on the soil boring logs in the form of Latitude and Longitude are approximate. See Exploration and Testing Procedures in the report for the methods used to locate the exploration points for this project. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

Strength Terms

Relative Density of Coarse-Grained Soils
(More than 50% retained on No. 200 sieve.)
Density determined by Standard Penetration Resistance

Relative Density	Standard Penetration or N-Value (Blows/Ft.)
Very Loose	0 - 3
Loose	4 - 9
Medium Dense	10 - 29
Dense	30 - 50
Very Dense	> 50

Consistency of Fine-Grained Soils
(50% or more passing the No. 200 sieve.)
Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance

Consistency	Unconfined Compressive Strength Qu (tsf)	Standard Penetration or N-Value (Blows/Ft.)
Very Soft	less than 0.25	0 - 1
Soft	0.25 to 0.50	2 - 4
Medium Stiff	0.50 to 1.00	4 - 8
Stiff	1.00 to 2.00	8 - 15
Very Stiff	2.00 to 4.00	15 - 30
Hard	> 4.00	> 30

Relevance of Exploration and Laboratory Test Results

Exploration/field results and/or laboratory test data contained within this document are intended for application to the project as described in this document. Use of such exploration/field results and/or laboratory test data should not be used independently of this document.

Unified Soil Classification System

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests [A]				Soil Classification	
				Group Symbol	Group Name [B]
Coarse-Grained Soils: More than 50% retained on No. 4 sieve	**Gravels:** More than 50% of coarse fraction retained on No. 4 sieve	**Clean Gravels:** Less than 5% fines [C]	Cu≥4 and 1≤Cc≤3 [E]	GW	Well-graded gravel [F]
			Cu<4 and/or [Cc<1 or Cc>3.0] [E]	GP	Poorly graded gravel [F]
		Gravels with Fines: More than 12% fines [C]	Fines classify as ML or MH	GM	Silty gravel [F, G, H]
			Fines classify as CL or CH	GC	Clayey gravel [F, G, H]
	Sands: 50% or more of coarse fraction passes No. 4 sieve	**Clean Sands:** Less than 5% fines [D]	Cu≥6 and 1≤Cc≤3 [E]	SW	Well-graded sand [I]
			Cu<6 and/or [Cc<1 or Cc>3.0] [E]	SP	Poorly graded sand [I]
		Sands with Fines: More than 12% fines [D]	Fines classify as ML or MH	SM	Silty sand [G, H, I]
			Fines classify as CL or CH	SC	Clayey sand [G, H, I]
Fine-Grained Soils: 50% or more passes the No. 200 sieve	**Silts and Clays:** Liquid limit less than 50	**Inorganic:**	PI > 7 and plots above "A" line [J]	CL	Lean clay [K, L, M]
			PI < 4 or plots below "A" line [J]	ML	Silt [K, L, M]
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OL	Organic clay [K, L, M, N]
					Organic silt [K, L, M, O]
	Silts and Clays: Liquid limit 50 or more	**Inorganic:**	PI plots on or above "A" line	CH	Fat clay [K, L, M]
			PI plots below "A" line	MH	Elastic silt [K, L, M]
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OH	Organic clay [K, L, M, P]
					Organic silt [K, L, M, Q]
Highly organic soils:	Primarily organic matter, dark in color, and organic odor			PT	Peat

[A] Based on the material passing the 3-inch (75-mm) sieve.
[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.
[E] $Cu = D_{60}/D_{10}$ $Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
[F] If soil contains ≥ 15% sand, add "with sand" to group name.
[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.
[H] If fines are organic, add "with organic fines" to group name.
[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.
[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.
[N] PI ≥ 4 and plots on or above "A" line.
[O] PI < 4 or plots below "A" line.
[P] PI plots on or above "A" line.
[Q] PI plots below "A" line.

