SCOOTER'S COFFEE

503 E. JACKSON BLVD.
ERWIN, NC 28339

DRAFTING SYMBOLS

DIMENSION LINE — 2" / TO FACE OF FRAMING OR CENTERLINE OF STRUCTURE

SECTION — X / AX — SECTION DESIGNATION, SHEET NUMBER

DETAIL — 5 / A2.0 — DETAIL NUMBER, SHEET NUMBER

EXTERIOR ELEVATION — 5 / A2.0 — ELEVATION DESIGNATION, SHEET NUMBER

INTERIOR ELEVATION — 4 / 5 / A2.0 / 2 / 1 / 3 — ELEVATION DESIGNATION, SHEET NUMBER

PARTITION TYPE — A

DOOR IDENTIFICATION — 107 — DOOR # — (E) 107

WINDOW IDENTIFICATION — -

EQUIPMENT IDENTIFICATION — ###

ROOM NAME AND NUMBER — DINING AREA / 101 / 0 S.F. — ROOM NAME, ROOM NUMBER

KEYNOTE REFERENCE — X

ELEVATION MARKER — #'-#" DESCRIPTION

REVISION — 2

FINISH TYPE MARKER — ##-#

COLUMN OR GRID LINE — D, 2

KEY FOR ENLARGED PLAN — 1 / A2.2

EXISTING ABBREVIATION — (E)

RCP HEIGHT MARKER — +8'-0"

PROJECT TEAM

ARCHITECT
FREDERICK J. GOGLIA
1950 CRAIG ROAD #300
ST. LOUIS, MO 63146

CONTACT: MEGAN DOW
PHONE: 800- 489-2233
EMAIL: MDOW@ARCV.COM

MEP ENGINEER
ROBERT L QUEATHEM
1950 CRAIG RD.
ST. LOUIS, MO 63146

CONTACT: ANTHONY RICHARDSON
PHONE: 314-415-2400
EMAIL: ARICHARDSON@ARCV.COM

CIVIL
ECLS GLOBAL, INC
350 HILTON ROAD, SUITE 300
MYRTLE BEACH, SC 29572

CONTACT: JACK HOBBS, PE, PLS
PHONE: 843-949-4890
EMAIL: ACKH@ECLSGLOBALINC.COM

STRUCTURAL ENGINEER
CARUSO TURLEY SCOTT INC.
1215 W RIO SALADO PKWY, SUITE #200
TEMPE, AZ 85281

CONTACT: RICHARD DAHLMAN
PHONE: 480-774-1700
EMAIL: RDAHLMANN@CTSAZ.COM

OWNER/FRANCHISE
JF BREW, LLC
111 DENIM DR.,
ERWIN, NC 28339

CONTACT: MICHAEL R. JACKSON SR.
PHONE: 910- 890-4296
EMAIL:
MICHAELRJACKSON@GMAIL.COM

SCOOTER'S PRE-DEVELOPMENT:
SCOOTER'S COFFEE
11808 MIRACLE HILLS DRIVE
OMAHA, NE 68154

CONTACT: VICTOR CABRERA
PHONE: 786-385-5525
EMAIL:
VICTOR.CABRERA@SCPPTERSCOFFEE.COM

SCOOTER'S CONSTRUCTION MGR:
SCOOTER'S COFFEE
11808 MIRACLE HILLS DRIVE
OMAHA, NE 68154

CONTACT: AMBER BUCHANAN
PHONE: 531-710-3944
EMAIL:
AMBER.BUCHANAN@SCOOTERSCOFFEE.COM

CITY CONTACTS

PLANNING / ZONING
CITY OF ERWIN PLAN., INSP., FLOOD PREVENTION, MIN. HOUSING, AND ZONING CODE ENFORCEMENT
100 WEST F. ST.,
ERWIN, NC 28339

CONTACT: DYLAN EURE
PHONE: 910-591-4201
EMAIL: DEURE@ERWIN-NC.ORG

BUILDING DEPARTMENT
HARNETT CENTRAL PERMITTING
420 MCKINNEY PARKWAY
LILLINGTON, NC, 27546

CONTACT: -
PHONE: 910-893-7525
EMAIL:
CENTRALPERMITTING@HARNETT.ORG

HEALTH DEPARTMENT
NCDHHS - PLAN REVIEW UNIT
5605 SIX FORKS RD.
RALEIGH, NC 27609

CONTACT: -
PHONE: 919-218-6943
EMAIL: -

FIRE DEPARTMENT
HARNETT COUNTY FIRE MARSHAL
1005 EDWARDS BROTHERS DRIVE
LILLINGTON, NC 27546

CONTACT: -
PHONE: 910-893-7580
EMAIL: -

WATER PROVIDER
HARNETT REGIONAL WATER
PO BOX 119
700 MCKINNEY PARKWAY
LILLINGTON, NC 27546

CONTACT: -
PHONE: 910-893-7575
EMAIL: UTILITYBILLING@HARNETT.ORG

SANITARY PROVIDER
HARNETT REGIONAL WATER
PO BOX 119
700 MCKINNEY PARKWAY
LILLINGTON, NC 27546

CONTACT: -
PHONE: 910-893-7575
EMAIL: UTILITYBILLING@HARNETT.ORG

ELECTRIC PROVIDER
DUKE ENERGY
410 SOUTH WILMINGTON ST.,
RALEIGH, NC 27601

CONTACT: -
PHONE: 1-800-452-2777
EMAIL: -

NATIONAL ACCOUNT VENDORS

ON-DEMAND WATER HEATER:
RINNAI AMERICA CORPORATION
103 INTERNATIONAL DRIVE
PEACHTREE CITY, GA 30269
CONTACT: STACY PETERSON
PH: 909.631.8297
EMAIL: speterson@rinnai.us

GREASE INTERCEPTOR:
SCHIER PRODUCTS
-
-
CONTACT: ROB PARTEN
PH: 913.951.3345
EMAIL: Rob.parten@schierproducts.com

AWNINGS:
COOL PLANET AWNINGS
-
INDIANAPOLIS, IN 46229
CONTACT: SHERRIE KIMSEY
PH: 317.927.9000
WEB: coolplanetawnings.com

ROOFING MEMBRANE:
NATIONAL ACCOUNTS
525 MORLEY DRIVE
SAGINAW, MI 48601
CONTACT: JACOB LEESON
PH: 989.980.7423
EMAIL: jacob.leeson@amrize.com

ROOFTOP MECHANICAL UNIT:
CARRIER ENTERPRISE
13202 I STREET
OMAHA, NE 68137
CONTACT: WALID KANAN
PH: 402.739.2737
EMAIL: walid.kana@carrierenterprise.com

DRIVE-THRU WINDOW:
QUICKSERV
114441 BRITTMOORE PARK DRIVE
HOUSTON, TX 77041
CONTACT: GARY KINGCAID
PH: 713.849.5882
EMAIL: gkingcaid@quickserv.com

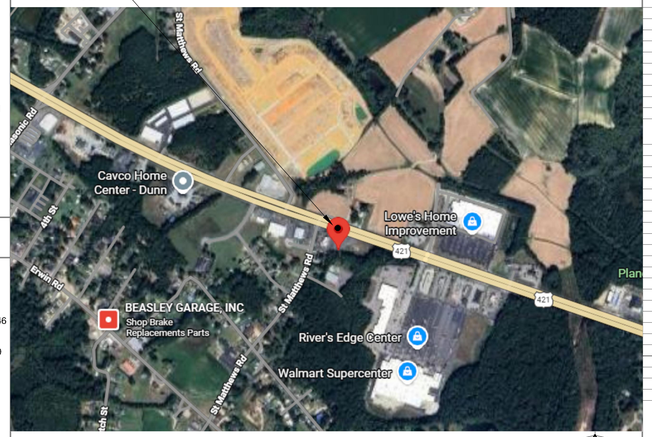
LIGHTING:
VILLA LIGHTING
CONTACT: DEANNA McCLANAHAN
PH: 314.633.0508
EMAIL: scooters@villalighting.com

LED LIGHTING:
MORGAN HOPE USA
CONTACT: JUSTIN COLLINS
PH: 904.687.0660
EMAIL: justin@morganhopeusa.com

GENERAL NOTES

A. GENERAL CONTRACTOR SHALL VISIT THE SITE, REVIEW THE DRAWINGS AND BECOME THOROUGHLY FAMILIAR WITH THE SITE CONDITIONS PRIOR TO CONSTRUCTION.
B. GENERAL CONTRACTOR SHALL CONSULT WITH THE CLIENT AND ARCHITECT TO RESOLVE ANY CHANGES, OMISSIONS OR PLAN DISCREPANCIES PRIOR TO CONSTRUCTION.
C. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH LOCAL, COUNTY, STATE AND FEDERAL CODES AND ORDINANCES.
D. GENERAL CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES.
E. GENERAL CONTRACTOR TO VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. ALL DIMENSIONS ARE TO THE FACE OF FRAMING UNLESS NOTED OTHERWISE.
F. GENERAL CONTRACTOR SHALL PATCH AND REPAIR ALL EXISTING WALLS, FLOORS, CEILINGS, OR OTHER SURFACES IDENTIFIED TO REMAIN THAT MAY BECOME DAMAGED DURING THE COURSE OF WORK.
G. GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMITS FOR FIRE PROTECTION, FIRE ALARM, OR SPECIALTY SYSTEMS PRIOR TO INSTALLATION OF SUCH SYSTEMS.
H. GENERAL CONTRACTOR SHALL RETAIN ONE SET OF PERMIT PLANS ON-SITE TO DOCUMENT ALL CHANGES MADE DURING CONSTRUCTION. THE RECORD DRAWINGS SHALL BE ISSUED TO THE CLIENT AT PROJECT CLOSE-OUT AS DESCRIBED IN THE GENERAL REQUIREMENTS OF THE PROJECT MANUAL.
I. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING DELIVERY OF MATERIALS AND INSTALLING SUCH MATERIALS SUPPLIED BY CLIENT OR CLIENT'S VENDOR.
J. RESPONSIBILITY FOR SUPPLY AND DELIVERY OF MATERIALS AND EQUIPMENT IS IDENTIFIED IN THE DRAWING SCHEDULE SHEETS UNDER THE COLUMN LABELED "RESPONSIBILITY".
K. FOR THE PURPOSE OF THE DOCUMENTS, TO "INSTALL" SHALL MEAN TO PROVIDE ALL FASTENERS, MISCELLANEOUS HARDWARE, BLOCKING, ELECTRICAL CONNECTIONS, PLUMBING CONNECTIONS AND OTHER ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION UNLESS OTHERWISE NOTED.
L. ALL ITEM SUBSTITUTIONS MUST BE APPROVED BY CLIENT AND ARCHITECT.
M. ONCE ALL PERMITS ARE ISSUED, THE ISSUED FOR CONSTRUCTION (IFC) DRAWING SET SHALL BE PUBLISHED AND SAVED TO THE ONLINE PROJECT MANAGEMENT SITE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT CONSTRUCTION IS SOLEY BASED OFF OF THIS SET. ALL DRAWINGS REFERENCED FOR CONSTRUCTION SHALL SHOW THE SITE SPECIFIC ADDRESS TO CLEARLY GOVERN THE SCOPE OF WORK.
N. SCOOTER'S SHALL PROVIDE A DESIGN MANUAL TO SUPPLEMENT THIS DRAWING SET AS PART OF THE CONTRACT DOCUMENTS. THE DESIGN MANUAL INCLUDES SPECIFICATIONS, INSTALLATION GUIDES, AND EQUIPMENT CUTSHEETS TO ASSIST WITH BIDDING AND CONSTRUCTION. THE CONTRACTOR SHALL REFERENCE THE INSTRUCTIONS TO BIDDERS INCLUDED IN THIS DESIGN MANUAL FOR CONSTRUCTION MANAGEMENT REQUIREMENTS AND PROCEDURES.
O. GC IS RESPONSIBLE FOR SUBMITTING DOCUMENTS TO FSEC IN COORDINATION WITH SCOOTERS CORPORATE FOR VERIFICATION OF ALL EQUIPMENT SPECS, REQUIREMENTS, CONNECTIONS, UTILITIES, ETC. ANY DISCREPANCIES WILL BE BROUGHT TO THE ATTENTION OF SCOOTERS CORP AND THE ARCHITECT FOR REVIEW AND RESPONSE DURING THE BID PROCESS.
P. ALL PLANS, SECTIONS, ELEVATIONS AND DETAILS SHOWN IN THE ARCHITECTURAL SET ARE BASED OFF OF A SLAB HEIGHT OG 0'-0". CONTRACTOR SHALL REFER TO THE CIVIL DRAWINGS TO DETERMINE ACTUAL BASELINE OF ELEVATION FOR THIS PROJECT.

VICINITY MAP



1 VICINITY MAP
SCALE: N.T.S.

PROJECT DATA

PROJECT INFORMATION

PROJECT NAME:	SCOOTERS COFFEE KIOSK BUILDING
PROJECT DESCRIPTION:	NEW KIOSK BUILDING WITH DRIVE-THRU SERVICE
PROJECT LOCATION:	503 E. JACKSON BLVD., ERWIN, NC 28339
PARCEL NUMBER:	REFER TO CIVIL SHEETS
LEGAL DESCRIPTION:	TR#2 JACKSON FAMILY ENTERPRISES MAP#2023-532
JURISDICTION:	ZONING: CITY OF ERWIN BUILDING: HARNETT COUNTYTY

GOVERNING CODES

ALL WORK SHALL BE IN COMPLIANCE WITH, BUT NOT LIMITED TO THE REQUIREMENTS OF THE FOLLOWING AND ANY OTHER STATE AND LOCAL CODES HAVING JURISDICTION:

BUILDING:	2018 NC BUILDING CODE
PLUMBING:	2018 NC PLUMBING CODE
MECHANICAL:	2018 NC MECHANICAL CODE
FIRE:	2018 NC FIRE CODE
FUEL / GAS:	2018 NC FUEL GAS CODE
ELECTRICAL:	2020 NATIONAL ELECTRIC CODE (NEC)
ENERGY:	2018 NC ENERGY CONSERVATION CODE (IECC) W/ LOCAL AMENDMENTS
ACCESSIBILITY:	2009 ANSI A117.1

SITE INFORMATION

SITE AREA:	2.01 ACRES
ZONING:	HIGHWAY BUSINESS

PARKING

PARKING PROVIDED:	(6) STANDARD SPACES & (1) ACCESSIBLE SPACE = 4 TOTAL

BUILDING INFORMATION

ZONING BUILDING SETBACKS:	
BUILDING HEIGHT:	19'-0"
BUILDING AREA:	668 SQ.FT.
CONSTRUCTION TYPE:	V-B
SPRINKLERED:	NO

OCCUPANTS

OCCUPANCY CLASSIFICATION:	B - BUSINESS
BARISTA / BACK OF HOUSE:	600 SQ.FT. / 1:200 = 3
RESTROOM:	68 SQ.FT. / 0 = 0
TOTAL OCCUPANTS:	SEE SHEET G0.3 FOR PROPOSED INCREASED OCCUPANT LOAD

EXIT REQUIREMENTS

EXITS REQUIRED:	1 EXIT
EXITS PROVIDED:	1 EXIT

SHEET INDEX

FOR REFERENCE

	SHEET TITLE	02/18/2026 IFR SET	02/27/2026 IFR SET	04/06/2026 IFP R1 SET
GENERAL				
G0.1	COVER SHEET	●	●	●
G0.2	RESPONSIBILITY SCHEDULE	●		
G0.3	LIFE SAFETY / OCCUPANCY PLAN	●		
G0.4	ACCESSIBILITY DETAILS	●		
G0.5	ARCHITECTURAL SPECIFICATIONS	●		
G0.6	ARCHITECTURAL SPECIFICATIONS	●		
G0.7	ENERGY COMPLIANCE	●		
G0.8	ENERGY COMPLIANCE	●		
G0.9a	APPENDIX B	●		
G0.9b	APPENDIX B	●		
ARCHITECTURAL				
A0.1	ARCHITECTURAL SITE PLAN	●		
A0.2	TRASH ENCLOSURE ELEVATIONS & DETAILS	●		
A0.3	SITE DETAILS	●		
A0.4	SIGNAGE DETAILS	●		
A1.1	DIMENSION PLAN & FLOOR PLAN	●		
A1.2	FINISH PLAN & SCHEDULE	●		
A1.3	EQUIPMENT PLAN & SCHEDULE	●		
A1.4	REFLECTED CEILING PLAN	●		
A1.5	ROOF PLAN	●		
A2.1	EXTERIOR ELEVATIONS	●		
A2.2	EXTERIOR ELEVATIONS	●		
A3.1	BUILDING SECTIONS	●		
A3.2	WALL SECTIONS	●		
A3.3	WALL SECTIONS	●		
A3.4	WALL DETAILS	●		
A3.5	DOOR & WINDOW DETAILS	●		
A3.6	EXTERIOR SIDING DETAILS	●		
A4.1	INTERIOR ELEVATIONS	●		
A4.2	INTERIOR ELEVATIONS	●		
A4.3	ENLARGED RESTROOM PLAN & ELEVATIONS	●		
A5.1	WINDOW SCHEDULE	●		
A5.2	DOOR SCHEDULE	●		
A6.1	AUDIO / VIDEO DATA PLAN	●		
CIVIL				
001	COVER SHEET	●		
002	EXISTING CONDITIONS	●		
003	REMOVALS AND EROSION CONTROL PLAN	●		
004	EROSION AND SEDIMENT CONTROL DETAILS	●		
005	SITE PLAN	●		
006	GRADING PLAN	●		
007	UTILITY PLAN	●		
008	UTILITY DETAILS	●		
009	PRESSURE SANITARY SEWER SCHEMATIC	●		
LANDSCAPE				
010	LANDSCAPE PLAN	●		
011	LANDSCAPE DETAILS	●		
STRUCTURAL				
S1.1	GENERAL STRUCTURAL NOTES	●		
S1.2	DETAILS	●		
S1.3	DETAILS	●		
S2.1	PLAN VIEW	●		
S3.1	DETAILS	●		
MECHANICAL				
M0.1	MECHANICAL SCHEDULES	●		
M0.2	MECHANICAL ENERGY COMPLIANCE	●		
M0.3	MECHANICAL ENERGY COMPLIANCE	●		
M1.0	MECHANICAL PLANS	●		
M2.0	MECHANICAL DETAILS	●		
M3.0	MECHANICAL SPECIFICATIONS	●		
PLUMBING				
P0.1	PLUMBING SCHEDULES	●		●
P1.0	PLUMBING PLANS	●		
P2.0	PLUMBING RISER DIAGRAMS	●		
P3.0	PLUMBING DETAILS	●		
P4.0	PLUMBING SPECIFICATIONS	●		
ELECTRICAL				
E0.1	ELECTRICAL SPECIFICATIONS AND SYMBOLS	●		
E0.2	ELECTRICAL SITE PLAN	●		
E0.3	ELECTRICAL SITE PHOTOMETRIC PLAN	●		
E0.4	ELECTRICAL EXTERIOR LIGHTING SPECIFICATIONS	●		
E1.0	ELECTRICAL LIGHTING FLOOR PLAN	●		
E2.0	ELECTRICAL POWER FLOOR PLAN	●		
E2.1	ELECTRICAL POWER ROOF PLAN	●		
E3.0	ELECTRICAL ONE-LINE DIAGRAM	●		●
E4.0	ELECTRICAL ENERGY FORMS			●

DEFERRED SUBMITTALS

- SIGNAGE UNDER A SEPARATE SUBMITTAL AND PERMIT
- AWNINGS UNDER A SEPARATE SUBMITTAL AND PERMIT

REGISTRATION SEAL
NORTH CAROLINA REGISTERED
GE.NC 6408
ARCHITECT
FREDERICK J. GOGLIA
4/10/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300
PH. (314) 415-2400
ST. LOUIS, MO 63146
FAX (314) 415-2300
www.arcv.com

REV	DATE	DESCRIPTION	BY
1	04/06/26	HEALTH COMMENTS	SW

TITLE:

COVER SHEET

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.

G0.1

RESPONSIBILITY SCHEDULE

GATEGORY / TASK	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED	SUBMITTAL REQUIRED	REMARKS
1000 GENERAL						
BUILDERS RISK - PROPERTY INSURANCE						C.G TO CONFIRM COVERAGE BY OWNER OR CONTRACTOR
PERFORMANCE & PAYMENT BONDS						NOT APPLICABLE
CONSTRUCTION FACILITIES / TEMP FACILITIES			●	●		
TEMPORARY POWER AND WATER			●	●		
CONSTRUCTION CLEAN UP			●	●		
FINAL CLEAN			●	●		
MATERIAL TESTING			●	●		INITIAL GEOTECH PERFORMED BY OWNER
SURVEY, INITIAL	●	●				INITIAL ALTA / TOPO SURVEY PERFORMED BY OWNER
AS-BUILT SURVEY			●	●		AS REQUESTED BY SEPARATE PROTOCOL
CONSTRUCTION STAKING			●	●		
2000 DEMO			●	●		WHERE REQUIRED BY SITE PLAN
3000 CONCRETE			●	●		INCLUDES PIPE BOLLARDS, MATERIAL AND INSTALLATION
4000 MASONRY						
STONE VENEER			●	●		IF REQUIRED PER PLANS
BRICK VENEER TILE			●	●		IF REQUIRED PER PLANS
MONUMENT SIGN BASE			●	●		
5000 METALS						
STRUCTURAL ELEMENTS & MISC. METALS			●	●		
PATIO RAILING AND HANDRAILS			●	●		IF SHOWN / REQUIRED PER PLANS
6000 WOODS AND PLASTICS						
STRUCTURAL ELEMENTS			●	●		
ALL BLOCKING AND BACKING			●	●		
6201 FINISH CARPENTRY						
BARISTA LINE / STAINLESS STEEL TABLES	●	●				
WALL HUNG R/R VANITY TOP & SUPPORTS			●	●		
7000 THERMAL AND MOISTURE PROTECTION						
ROOFING			●	●		
INSULATION			●	●		
EIFS			●	●		IF SHOWN / REQUIRED PER PLANS
SHEET METAL / METAL COPING			●	●		
CAULKING AND SEALANTS			●	●		
8400 DOORS						
HOLLOW METAL DOORS AND FRAMES			●	●		
DOOR LOCKSET			●	●		
8410 STOREFRONT SYSTEM						
STOREFRONT WINDOW FRAMES & GLASS			●	●		INCLUDING WINDOW TINT
8700 FINISH HARDWARE			●	●		
9000 FINISHES						
FLOOR TILE, FRONT OF HOUSE			●	●		IF SHOWN / REQUIRED PER PLANS
FLOOR TILE, BACK OF HOUSE			●	●		IF SHOWN / REQUIRED PER PLANS
RESTROOM WALL TILE			●	●		IF SHOWN / REQUIRED PER PLANS
WATERPROOFING			●	●		
SCHLUTER STRIPS			●	●		IF SHOWN / REQUIRED PER PLANS
FRP			●	●		
WALL TILE, EXTERIOR AND RESTROOMS			●	●		IF SHOWN / REQUIRED PER PLANS
PAINT			●	●		ALL PAINT
LAY-IN CEILING SYSTEM			●	●		
10800 TOILET ACCESSORIES						
SOAP DISPENSERS	●			●		
PAPER TOWEL DISPENSERS	●			●		
TISSUE HOLDERS			●	●		
GRAB BARS			●	●		
RESTROOM MIRRORS			●	●		
SPECIAL SHELVING	●			●		IF SHOWN / REQUIRED PER PLANS

GATEGORY / TASK	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED	SUBMITTAL REQUIRED	REMARKS
10900 SPECIALTIES						
EMPLOYEE LOCKERS	●			●		
MOP HOLDER			●	●		
CHEMICAL WIRE RACK	●			●		
FLASHING 'OPEN' SIGN	●			●		
SAFE	●			●		MUST BE BOLTED TO FLOOR
WINDOW TINTING			●	●		
EXTERIOR AWNINGS			●	●		
POINT OF SALE; CONDUIT AND PULL STRINGS			●	●		CONDUIT ALL HOME RUNS TO OFFICE AREA
LOW VOLTAGE CABLINE	●	●				ALL CAT6 CABLES BY OWNER'S VENDOR
LOW VOLTAGE TERMINATION AND TESTING	●	●				I.T. VENDOR
SPEAKERS	●	●				
SIGNAGE: INTERIOR (ADA AND CODE REQ'D SIGNAGE)			●	●		
SIGNAGE: EXTERIOR (CHANNEL LETTERS AND LOGO)	●	●				PERMIT BY SIGNAGE VENDOR ELECTRICIAN TO PROVIDE POWER CONNECTION AND MAKE FINAL CONNECTIONS
SIGNAGE: EXTERIOR SNAP FRAME	●	●				PERMIT BY SIGN VENDOR
SIGNAGE: MONUMENT SIGN	●	●				PERMIT BY SIGN VENDOR, FOUNDATION BY GC
SIGNAGE: MENU BOARD	●	●				PERMIT BY SIGN VENDOR, FOUNDATION BY GC
SIGNAGE: DIRECTIONAL SIGNS	●	●				PERMIT BY SIGN VENDOR, FOUNDATION BY GC
FLAGPOLE (25' HEIGHT)			●	●		
FLAG (5' x 6' U.S. AMERICAN)		●	●			
FLAGPOLE LIGHTING			●	●		
FIRE EXTINGUISHERS			●	●		
11000 KITCHEN EQUIPMENT						
KITCHEN EQUIPMENT	●	●				PLUMBER & ELECTRICIAN TO PROVIDE UTILITY CONNECTIONS
12000 FURNISHINGS						
PATIO FURNITURE AND UMBRELLAS	●			●		IF SHOWN / REQUIRED PER PLANS
POTS AND PLANTS	●	●				
WIRE SHELVING	●	●				
15000 MECHANICAL						
HVAC UNITS			●	●		
HVAC CURBS			●	●		
T-STAT, REMOTE SENSORS, REMOTE TEST SWITCHES			●	●		
RESTROOM EXHAUST FANS			●	●		ELECTRICAL CONTRACTOR TO PROVIDE POWER AND FINAL CONNECTION
AIR DISTRIBUTION DUCTWORK			●	●		
FILTER REPLACEMENT PRIOR TO TURNOVER			●	●		
CONTROL WIRING			●	●		
CONDUIT FOR CONTROL WIRING			●	●		
HVAC SYSTEM START-UP			●	●		
AIR BALANCE REPORT			●	●		AIR BALANCE REPORT MUST BE PERFORMED BY INDEPENDENT 3RD PARTY
ROOFTOP ICE MACHINE CONDENSOR			●	●		MECHANICAL CONTRACTOR RESPONSIBLE FOR RUNNING, EVACUATING, AND CHARGING REFRIGERATION LINES FOR AIR COOLED REMOTE CONDENSOR.
15000 PLUMBING						
THREE COMPARTMENT SINK	●	●				IF SHOWN / REQUIRED PER PLANS
THREE COMPARTMENT SINK FAUCET	●			●		IF SHOWN / REQUIRED PER PLANS
THREE COMPARTMENT DRAIN LINES			●	●		
PREP SINKS	●			●		IF SHOWN / REQUIRED PER PLANS
PREP SINK FAUCETS	●			●		
PREP SINK DRAIN LINES			●	●		
GAS REGULATORS FOR ROOF TOP EQUIPMENT			●	●	●	IF REQUIRED PER PLANS
GAS REGULATORS FOR WATER HEATER			●	●	●	IF REQUIRED PER PLANS
MOP SINK			●	●	●	
COFFEE BREWER WATER SUPPLY & SHUT-OFF VALVES	●			●		PLUMBER & ELECTRICIAN TO CONNECT UTILITIES
ICE MACHINE	●			●		PLUMBER & ELECTRICIAN TO CONNECT UTILITIES
ICE MACHINE WATER SUPPLY			●	●		
BLENDER STATION DRAIN LINES			●	●		
WATER HEATER			●	●	●	
WATER HEATER VENTS AND MONITORING ALARM			●	●		
WATER HEATER MANIFOLD KIT W/ TEMP. GAUGES			●	●		
FLOOR DRAINS AND FLOOR SINKS			●	●	●	
GREASE TRAP			●	●	●	
HANDSINKS	●	●				
HANDSINK FAUCETS	●			●		
RESTROOM PLUMBING FIXTURES			●	●	●	
BACKFLOW PREVENTERS / CHECK VALVES			●	●	●	ALSO; FIRE PROTECTION CONTRACTOR TO INSTALL ON F/P SYSTEM IF REQUIRED
R/O WATER SOFTENER SYSTEM	●			●		PLUMBING CONTRACTOR TO CONNECT R/O SYSTEM; CERTIFIED START-UP BY OTHERS. PLUMBER TO VERIFY FOR TEMPERING VALVE REQUIREMENT WITH SYSTEM PROVIDER FOR LOCATIONS THAT ARE NORTH OF 37th PARALLEL

GATEGORY / TASK	OWNER FURNISHED	OWNER INSTALLED	CONTRACTOR FURNISHED	CONTRACTOR INSTALLED	SUBMITTAL REQUIRED	REMARKS
16000 ELECTRICAL						
LIGHT FIXTURES, EXIT SIGNS AND EMERGENCY LIGHTS						ELECTRICIAN TO FURNISH, RECEIVE, INVENTORY, STORE ON SITE AND INSTALL
LIGHT BULBS						ELECTRICIAN TO FURNISH, RECEIVE, INVENTORY, STORE ON SITE AND INSTALL
LIGHTING						G.C. TO ORDER ALL LIGHTING FIXTURES THROUGH OWNER REQUIRED VENDOR; VILLA LIGHTING
POWER TO ROOF TOP AIR CONDITIONING UNITS						
POWER TO EXHAUST FANS						
FIRE ALARM SYSTEM						IF SHOWN / REQUIRED PER PLANS
FIRE ALARM SYSTEM CONDUIT						IF SHOWN / REQUIRED PER PLANS
POWER AND PHONE JACK FOR FIRE ALARM SYSTEM						IF SHOWN / REQUIRED PER PLANS
SECURITY SYSTEM WIRING	●	●				
SECURITY SYSTEM CONDUIT			●	●		GC TO RUN CONDUIT ABOVE CEILING
OUTLET FOR SECURITY SYSTEM			●	●		
POWER FOR ALL KITCHEN EQUIPMENT			●	●		
POWER FOR WATER SOFTENER AND R/O SYSTEM			●	●		
POWER FOR ALL A/V EQUIPMENT			●	●		
J-BOXES AND CONDUIT FOR CABLE TV WIRING			●	●		
WIRING FOR SPEAKERS	●	●				
POWER FOR ICE MACHINE			●	●		
POWER FOR REMOTE ROOFTOP ICE MACHINE CONDENSOR			●	●		
POWER FOR WATER HEATERS			●	●		
DIMMER CONTROLS			●	●		
POS WIRING / POS LOW VOLTAGE WIRING			●	●		GC TO INCLUDE CAT6 WIRES TO EACH LOCATION. OWNER TO TRIM OUT.
POS CONDUIT			●	●		CONDUIT TO ABOVE CEILING ONLY W/ PULL STRINGS
POS JUNCTION BOXES			●	●		
ISP / TELEPHONE CONDUIT HOMERUNS			●	●		GC TO RUN CONDUIT ABOVE CEILING
POWER FOR EXTERIOR SIGNAGE			●	●		
DOOR BELL / TRANSFORMER			●	●		IF SHOWN / REQUIRED PER PLANS
PANEL, BREAKERS AND SWITCHES			●	●		G.C. TO ORDER ALL PANELS, BREAKERS & SWITCHES THROUGH VENDOR
SECONDARIES FROM TRANSFORMERS TO BUILDING SERVICE			●	●		
TIME CLOCKS			●	●		IF SHOWN / REQUIRED PER PLANS
PHOTO ELECTRIC CELLS			●	●		IF SHOWN / REQUIRED PER PLANS
POWER FOR IRRIGATION CONTROL			●	●		
TEMPORARY POWER FOR CONSTRUCTION			●	●		G.C. MUST PROVIDE TEMPORARY POWER DURING CONSTRUCTION
MISCELLANEOUS						
COFFEE AND ESPRESSO EQUIPMENT	●	●				PLUMBER & ELECTRICIAN TO PROVIDE WATER & ELECTRICAL CONNECTIONS
KNOX BOX			●	●		IF REQUIRED BY FIRE DEPARTMENT
CLEANING CHEMICALS / EQUIPMENT INSTALL	●			●		G.C. TO INSTALL WIRE RACKING FOR CHEMICAL SYSTEM ONLY
STAINLESS STEEL OUTSIDE CORNERS			●	●		IF SHOWN / REQUIRED PER PLANS
CODE REQUIRED SIGNAGE			●	●		ADA & PARKING SIGNAGE PROVIDED & INSTALELD BY G.C.
ADA IDENTIFYING DEVICES			●	●		ADA & PARKING SIGNAGE PROVIDED & INSTALELD BY G.C.
LANDSCAPING			●	●		
SITE UTILITIES			●	●		
GAS SERVICE & METER (IF SHOWN/ REQUIRED ON PLANS)			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
WATER SERVICE AND METER			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
SEWER			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
TRANSFORMER			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
ELECTRICAL SERVICE AND METER			●	●		G.C. TO HAVE UTILITIES IN THEIR NAME UNTIL TURNOVER DATE
INTERNET SERVICE			●	●		ELECTRICAL SUB-CONTRACTOR TO PROVIDE SITE CONDUITS & PULL STRINGS

NOTES

#1: UNLESS SPECIFIED HEREIN NOT TO BE PROVIDED, INSTALLED AND / OR FINISHED BY PRIME CONTRACTOR, THE PRIME CONTRACTOR OR HIS SUB CONTRACTORS ARE TO PROVIDE, INSTALL AND FINISH ALL ITEMS IN THE CONSTRUCTION DOCUMENTS AND SPECIFIED IN THE PROJECT MANUAL.

#2: WHERE SUBMITTALS ARE NOT REQUIRED, THE EXACT SPEC. MUST BE USED.

REGISTRATION SEAL
NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300
PH. (314) 415-2400
ST. LOUIS, MO 63146
FAX (314) 415-2300
www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:

RESPONSIBILITY SCHEDULE

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.

G0.2

OCCUPANT LOAD AND EGRESS ANALYSIS

	USE	AREA	LOAD FACTOR	OCCUPANTS
	FOOD PREP	600 SF	1:200	3
	RESTROOM	73 SF	0	0

TOTAL OCCUPANTS: 6 SEE BELOW

SECTION 1004.5.1 INCREASED OCCUPANT LOAD

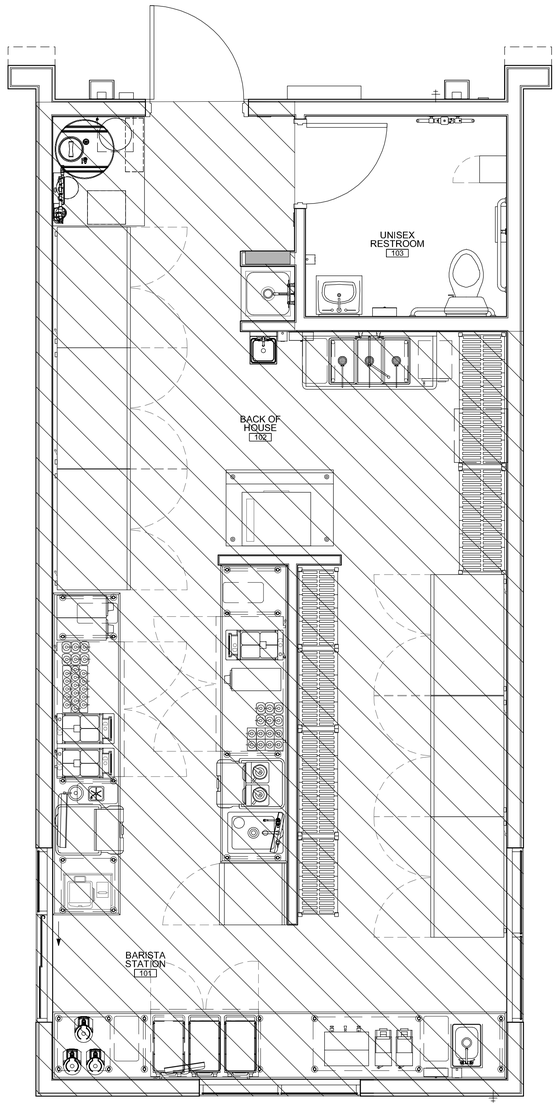
THE OCCUPANT LOAD PERMITTED IN ANY BUILDING, OR PORTION THEREOF, IS PERMITTED TO BE INCREASED FROM THAT NUMBER ESTABLISHED FOR THE OCCUPANCIES IN TABLE 1004.5 PROVIDED THAT ALL OTHER REQUIREMENTS OF THE CODE ARE MET BASE ON SUCH MODIFIED NUMBER AND THE OCCUPANT LOAD DOES NOT EXCEED ONE OCCUPANT PER 7 SQ FT OF OCCUPIABLE FLOOR SPACE.

MAXIMUM OCCUPANTS RATIO 1:7: 85 MAX. PER CODE
PROPOSED INCREASED OCCUPANT LOAD: 6 OCCUPANTS

EXIT WIDTH CALCULATIONS:
6 OCCUPANTS x.2 = 1.2" REQUIRED - 36" PROVIDED

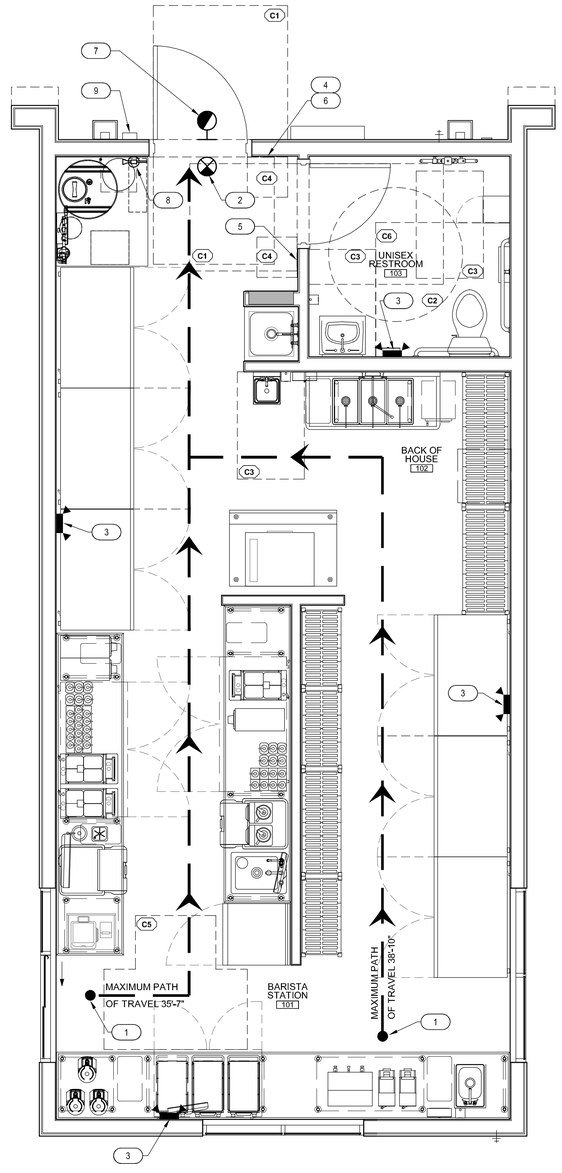
OCCUPANT LOAD IS 6 AND ONE EXIT IS REQUIRED, ONE IS PROVIDED.

ALLOWABLE PATH OF TRAVEL WITHOUT A SPRINKLER SYSTEM: 75'-0"
MAXIMUM PATH OF TRAVEL: 38'-10"



2 OCCUPANCY PLAN
SCALE: 3/8" = 1'-0"

PLAN NORTH



1 LIFE SAFETY PLAN
SCALE: 3/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

1. CONTRACTOR TO PROVIDE A SUFFICIENT NUMBER OF 2A10BC MIN. RATED FIRE EXTINGUISHERS DURING CONSTRUCTION SO THAT ALL PORTIONS OF THE BUILDING ARE WITHIN 75 FT. TRAVEL DISTANCE OF SAID EXTINGUISHER & SO THAT AT LEAST ONE 2A10BC RATED FIRE EXTINGUISHER IS PROVIDED FOR EACH 3,000 SQ. FT. OF FLOOR SPACE OR PORTION THEREOF.
2. PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY FIRE DEPARTMENT FIELD INSPECTOR DURING CONSTRUCTION & FOR COMPLETED PROJECT.
3. EXIT DOORS
   - 3.1. ALL EXIT DOORS SHALL SWING IN THE DIRECTION OF TRAVEL.
   - 3.2. ALL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT SPECIAL KNOWLEDGE OR EFFORT (NO BOLTS, NO SLIDING BOLTS, ETC.).
   - 3.3. ALL EXIT DOORS & INTERVENING DOORS ON THE EXIT PATH, IF PROVIDED WITH A LOCK OR LATCH, MUST BE MARKED " THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED".
   - 3.4. PROVIDE ILLUMINATED EXIT SIGNS ABOVE EXITS WITH MIN. 3/4"x6" LETTERS LIGHTED ON CONTRASTING BACKGROUND.
4. EXIT SIGNS
   - 4.1. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED
   - 4.2. EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT CANDLES (54 LUX).
   - 4.3. INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND PER CODE.
   - 4.4. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES.
   - 4.5. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS.
5. EGRESS EMERGENCY LIGHTING
   - 5.1. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
   - 5.2. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE.
   - 5.3. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES' ELECTRICAL SUPPLY IN THE EVENT OF SUPPLY; FAILURE OF AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE.
6. AN APPROVED SET OF NUMERALS, MINIMUM 4" HIGH WITH A STROKE WIDTH NOT LESS THAN 1/2 INCH, SHALL BE PLACED ON THE BUILDING. THE NUMBERING SHALL BE PLAINLY VISIBLE & LEGIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. SAID NUMERALS SHALL CONTRAST W/ THEIR BACKGROUND. IF THE ADDRESS THAT IS POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET OR ROAD FRONTING THE PROPERTY IS NOT VISIBLE, ADDITIONAL ADDRESSES POSTED NEAR THE INTERSECTION OF THE DRIVEWAY & THE PUBLIC STREET SHALL BE REQUIRED. (VERIFY REQUIREMENTS.)
7. PROVIDE A KNOX BOX FOR FIRE DEPT. ACCESS & KEY ACCESS, IF REQUIRED BY FIRE MARSHAL. LOCATION ON BUILDING TO BE DETERMINED BY FIRE MARSHAL.
8. GENERAL CONTRACTOR SHALL SECURE PERMITS REQUIRED BY THE FIRE DEPARTMENT FROM THE FIRE DEPARTMENT PRIOR TO OCCUPYING THIS BUILDING.
9. PROVIDE ALL WEATHER ACCESS ROAD (MIN 20') TO ALL BUILDINGS & HYDRANTS FROM PUBLIC WAY DURING CONSTRUCTION.

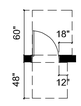
KEYNOTES (X)

1. EXIT PATH OF TRAVEL
2. EXIT SIGN, SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN
3. EMERGENCY LIGHTING, SEE ELECTRICAL DRAWINGS AND REFLECTED CEILING PLAN
4. TACTILE EXIT SIGN - REFER TO ACCESSIBLE SIGNS DETAIL 1/G0.4
5. TACTILE RESTROOM SIGN - REFER TO ACCESSIBLE SIGNS DETAIL 1/G0.4
6. OCCUPANT LOAD SIGN. FINAL LOCATION APPROVED BY FIRE MARSHALL
7. EXTERIOR EXIT LIGHT, SEE ELECTRICAL DRAWING AND REFLECTED CEILING PLAN
8. 2A-10BC MINIMUM RATED FIRE EXTINGUISHER PER FIRE MARSHALL APPROVAL
9. KNOX BOX AT 60" A.F.F. AS REQUIRED BY FIRE DPARTMENT

LEGEND

- EMERGENCY LIGHT
- EXTERIOR EMERGENCY LIGHT
- EXIT SIGN, CONFIRM LOCATION REQUIREMENTS WITH FIRE MARSHAL
- EGRESS PATH OF TRAVEL
- 2A - 10BC MINIMUM RATED FIRE EXTINGUISHER - WALL HUNG

CLEARANCE KEYNOTE (XX)



C1 DOOR WITH A CLOSER AND A LATCH

C4 TACTILE SIGNS

C2 CIRCULAR TURNABOUT

C5 T-TURN

C3 CLEAR FLOOR SPACE

C6 WATER CLOSET

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300
PH: (314) 415-2400
ST. LOUIS, MO 63146
FAX (314) 415-2300
www.arcvi.com

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TITLE:
LIFE SAFETY & OCCUPANCY PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

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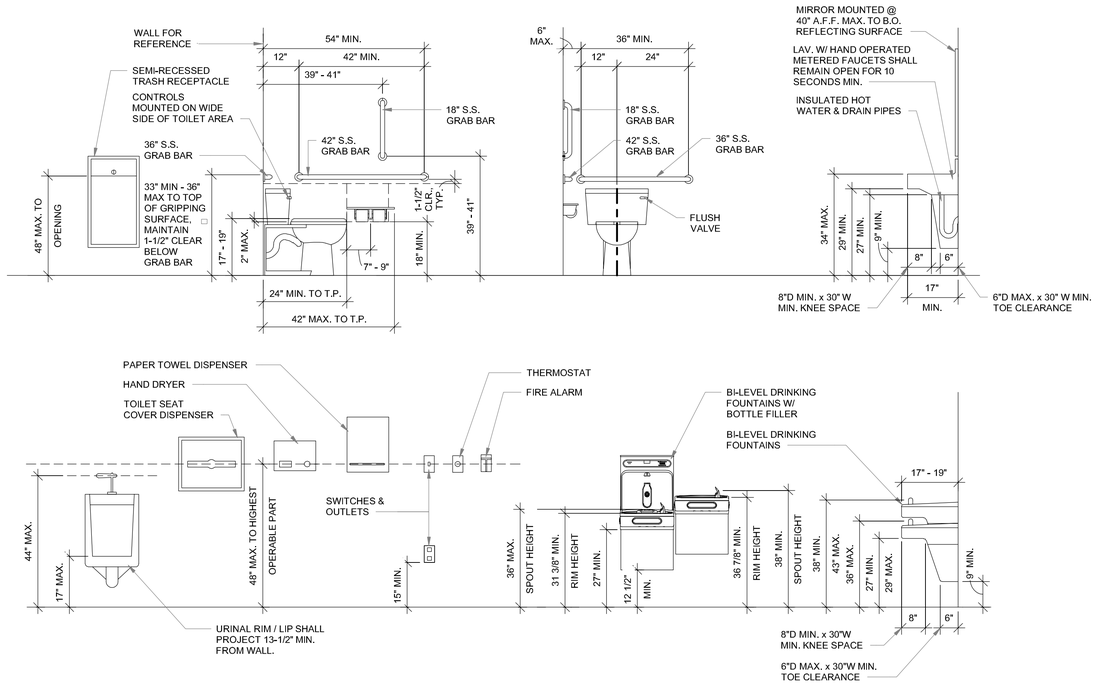
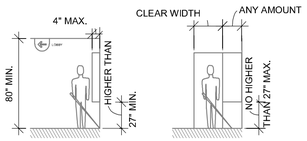


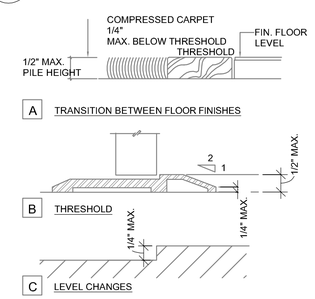
7 ICC / ANSI MOUNTING HEIGHTS AND CLEARANCES FOR ACCESSIBILITY

SCALE: NTS



6 PROTRUDING OBJECTS

SCALE: NTS

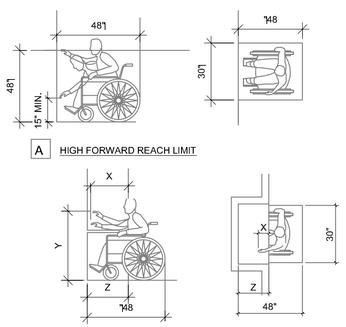


NOTES:

1. 1/2" MAXIMUM TOTAL HEIGHT WITH 1/4" MAXIMUM VERTICAL CHANGE AT EDGE.
2. 1 : 2 SLOPED BEVEL REQUIRED IF LEVEL CHANGE IS OVER 1/4" VERTICAL LEVEL CHANGE.
3. 1/4" MAXIMUM VERTICAL LEVEL CHANGE.

5 THRESHOLD/LEVEL CHANGES

SCALE: NTS

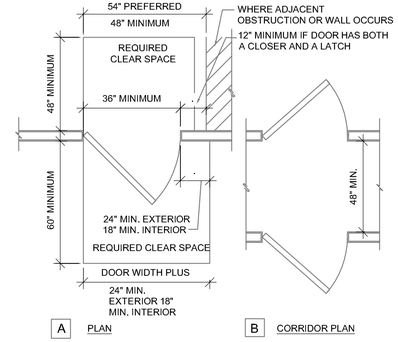


NOTES:

1. X SHALL BE < 25 INCHES; Z SHALL BE ≤ X.
2. WHEN X < 20 INCHES, THEN Y SHALL BE 48 INCHES MAXIMUM.
3. WHEN X IS 20 TO 25 INCHES, THEN Y SHALL BE 44 INCHES MAXIMUM.

4 REACH RANGES

SCALE: NTS



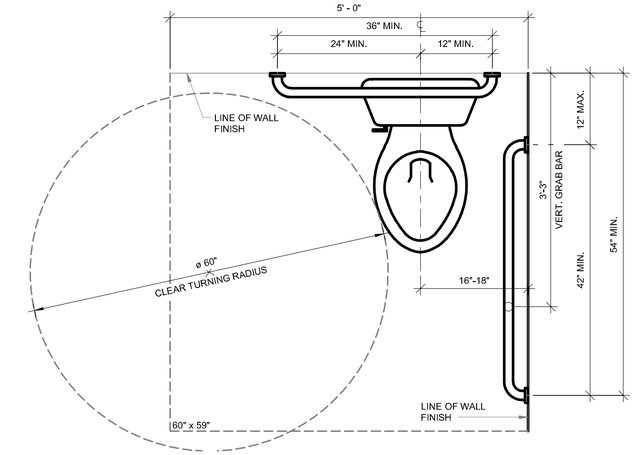
NOTES:

1.CLEAR SPACES MUST BE LEVEL TO PREVENT WHEELCHAIRS FROM ROLLING WHEN THE OCCUPANT RELEASES THE WHEEL GRIPS TO REACH FOR THE DOOR. 1/4" PER FOOT IS ALLOWED FOR DRAINAGE.

2.WHERE DOORS OPEN ONTO, BUT NOT INTO A CORRIDOR, THE REQUIRED LEVEL AREA BEYOND THE DOORS MAY BE A MINIMUM OF 48", FOR ADDITIONAL INFORMATION, SEE APPLICABLE NOTES ON TYPICAL ACCESSIBILITY NOTES SHEET.

3 DOOR CLEARANCE SPACE

SCALE: NTS



2 ADA TOILET LAYOUT

SCALE: 1" = 1'-0"

TACTILE SIGNAGE

A. WHEN SIGNS IDENTIFY A PERMANENT ROOM OR SPACE OF A BUILDING OR SITE, OR WHEN SIGNS DIRECT OR GIVE INFORMATION ABOUT A PERMANENT ROOM OR SPACE OF A BUILDING OR SITE, CORRESPONDING TACTILE SIGNAGE SHALL BE INSTALLED.

B. WHEN SIGNS IDENTIFY, OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURE OF A BUILDING OR SITE, THEY SHALL INCLUDE THE APPROPRIATE SYMBOL OF ACCESSIBILITY OR PICTOGRAM, WITH THE EQUIVALENT VISUAL AND TACTILE DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE BORDER OF THE PICTOGRAM SHALL BE MINIMUM 6" IN HEIGHT.

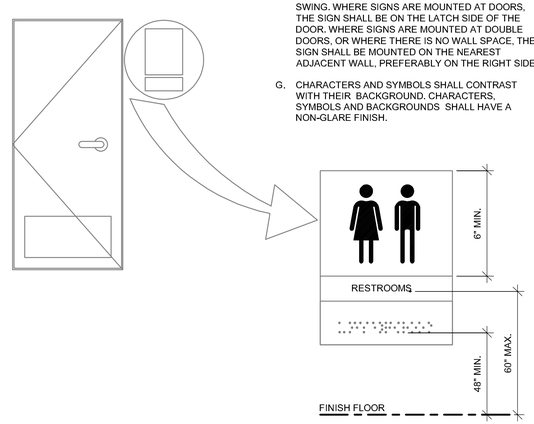
C. VISUAL CHARACTERS SHALL BE UPPERCASE, STANDARD SANS SERIF FONT. THE HEIGHT OF VISUAL CHARACTERS SHALL BE A MINIMUM 5/8" PLUS 1/8" PER FOOT OF VIEWING DISTANCE OVER SIX FEET. CHARACTER WIDTH SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTER STROKE WIDTH OF VISUAL CHARACTERS SHALL BE A MINIMUM OF 10% OF THE CHARACTER HEIGHT, AND A MAXIMUM OF 30%. TACTILE SIGNAGE DUPLICATING THE INFORMATION SHALL BE PROVIDED. EITHER AS PART OF THE VISUAL SIGN OR A SEPARATE TACTILE SIGN PROVIDED.

D. TACTILE CHARACTERS SHALL BE UPPERCASE, STANDARD SANS SERIF FONT. RAISED 1/32" OFF THE BACKGROUND. THE HEIGHT OF TACTILE CHARACTERS SHALL BE BETWEEN 5/8" AND 2". CHARACTER WIDTH SHALL BE 55% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE CHARACTER. CHARACTER STROKE WIDTH SHALL BE A MINIMUM OF 10% OF THE CHARACTER HEIGHT, AND A MAXIMUM OF 15%. CHARACTERS SHALL BE ACCOMPANIED BY GRADE 2 BRAILLE.

E. GRADE 2 BRAILLE SHALL HAVE DOMED OR ROUNDED DOTS RAISED 1/40" OFF THE BACKGROUND, WITH DOT SPACED 1/10" WITH-IN CELLS, AND 1/4" BETWEEN CELLS. (OR SPACED PER ANSI TABLE 703.5)

F. WHEN PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS & SPACES, RAISED LETTERS SHALL BE PROVIDED & SHALL BE ACCOMPANIED BY BRAILLE IN CONFORMANCE W/ SECTION 703.4.1 TACTILE CHARACTERS ON SIGNS SHALL BE LOCATED 48" MIN. ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60" MAX. ABOVE THE FINISH FLOOR OR GROUND SURFACE, MEASURED FROM THE BASELINE OF THE HIGHEST TACTILE CHARACTER. MOUNTING LOCATIONS SHALL BE DETERMINED SO THAT THE PERSON MAY APPROACH WITHIN 3" OF THE SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR. AN 18" X 18" CLEAR SPACE IS REQUIRED IN FRONT OF THE TACTILE SIGN, BEYOND THE ARC OF ANY DOOR SWING. WHERE SIGNS ARE MOUNTED AT DOORS, THE SIGN SHALL BE ON THE LATCH SIDE OF THE DOOR. WHERE SIGNS ARE MOUNTED AT DOUBLE DOORS, OR WHERE THERE IS NO WALL SPACE, THE SIGN SHALL BE MOUNTED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT SIDE.

G. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND. CHARACTERS, SYMBOLS AND BACKGROUNDS SHALL HAVE A NON-GLARE FINISH.



1 ACCESSIBLE SIGNS & PICTOGRAM

SCALE: NTS

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH: (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

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TITLE:

ACCESSIBILITY DETAILS

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503 E. JACKSON BLVD
ERWIN, NC 28339

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ARCHITECTURAL SPECIFICATIONS

0101 SUMMARY OF WORK

A. DESCRIPTION
- 1.1. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION INDICATED ON THESE CONSTRUCTION DOCUMENTS, WITH FINAL APPROVALS OF ALL WORK.
- 1.2. THE CONTRACTOR RESPONSIBLE FOR THE PORTION OF THE WORK REQUIRING INSPECTIONS BY GOVERNMENT AGENCIES, IS CHARGED WITH REQUESTING ALL SUCH INSPECTIONS.
- 1.3. CLOSE COORDINATION WILL BE REQUIRED BETWEEN GENERAL, MECHANICAL AND ELECTRICAL CONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE SCHEDULING AND PHASING OF CONSTRUCTION.
- 1.4. CLOSE COORDINATION OF FINAL EQUIPMENT CONNECTION REQUIREMENTS AND CONDITIONS WILL BE NECESSARY ON THIS PROJECT. ENGINEERING OF GAS, ELECTRIC, WATER AND SEWER AND VENTILATION SERVICES MAY VARY WITH FINAL SELECTIONS.

0108 APPLICABLE STANDARDS

A. DESCRIPTION
- 1.1. WORK INCLUDED: THROUGHOUT THE CONTRACT DOCUMENTS, REFERENCE IS MADE TO CODES AND STANDARDS WHICH ESTABLISH QUALITIES AND TYPES OF WORKMANSHIP AND MATERIALS, AND WHICH ESTABLISH METHODS FOR TESTING AND REPORTING ON THE PERTINENT CHARACTERISTICS.
- 1.2. RELATED WORK DESCRIBED ELSEWHERE: SPECIFIC NAMING OF CODES OR STANDARDS OCCURS ON THE DRAWINGS AND IN OTHER SECTIONS OF THESE SPECIFICATIONS.

B. QUALITY ASSURANCE:
- 1.1. FAMILIARITY WITH PERTINENT CODES AND STANDARDS: IN PROCURING ALL ITEMS USED IN THIS WORK IT IS CONTRACTOR'S RESPONSIBILITY TO VERIFY THE DETAILED REQUIREMENTS OF THE PREVAILING CODES AND STANDARDS AND TO VERIFY THAT THE ITEMS PROCURED FOR USE IN THE WORK MEET OR EXCEED THE SPECIFIED REQUIREMENTS.
- 1.2. REJECTION OF NON-COMPLYING ITEMS: THE TENANT RESERVES THE RIGHT TO REJECT ITEMS INCORPORATED INTO THE WORK, WHICH FAIL TO MEET THE SPECIFIED MINIMUM REQUIREMENTS. THE TENANT FURTHER RESERVES THE RIGHT, AND WITHOUT PREJUDICE TO OTHER RECOURSE THE TENANT MAY TAKE, TO ACCEPT NON-COMPLYING ITEMS SUBJECT TO AN ADJUSTMENT IN THE CONTRACT AMOUNT AS APPROVED BY THE OWNER.
- 1.3 APPLICABLE STANDARDS LISTED IN THESE SPECIFICATION INCLUDE, BUT ARE NOT NECESSARILY LIMITED TO, STANDARDS PROMULGATED BY THE FOLLOWING AGENCIES AND ORGANIZATION:
  - AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
  - AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
  - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
  - AMERICAN PLYWOOD ASSOCIATION (APA)
  - AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM)
  - AMERICAN WELDING SOCIETY (AWS)
  - ARCHITECTURAL ALUMINUM MANUFACTURERS ASSOCIATION (AAMA)
  - ARCHITECTURAL WOODWORK INSTITUTE (AWI)
  - INTERNATIONAL BUILDING CODE (IBC)
  - INTERNATIONAL CODE COUNCIL (ICC)
  - ICC EVALUATION SERVICE, LLC
  - INTERNATIONAL ASSOCIATION OF PLUMBING & MECHANICAL OFFICIALS (IAPMO)
  - COMMERCIAL SPECIFICATIONS (CS)
  - CONCRETE REINFORCING STANDARDS
  - NATIONAL ACOUSTICAL CONTRACTORS ASSOCIATION
  - NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS (NAAMA)
  - NATIONAL BUILDERS HARDWARE ASSOCIATION (NBHA)
  - NATIONAL CONCRETE MASONRY ASSOCIATION
  - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
  - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
  - NATIONAL SANITATION FOUNDATION (NSF)
  - NATIONAL WOODWORK MANUFACTURERS ASSOCIATION (NWMA)
  - TILE COUNCIL OF AMERICA (TCA)
  - UNDERWRITER LABORATORIES (UL)

0171 CLEANING

A. DESCRIPTION:
- 1.1. SCOPE OF WORK: THROUGHOUT THE CONSTRUCTION PERIOD, MAINTAIN THE BUILDING AND SITE IN A STANDARD OF CLEANLINESS AS DESCRIBED IN THIS SECTION.
- 1.2. RELATED WORK: IN ADDITION TO STANDARDS DESCRIBED IN THIS SECTION, COMPLY WITH ALL REQUIREMENTS FOR CLEANING UP AS DESCRIBED IN VARIOUS OTHER SECTIONS OF THESE SPECIFICATIONS.
- 1.3 FINAL CLEANING:
  - a. DEFINITION: EXCEPT AS OTHERWISE SPECIFICALLY PROVIDED, "CLEAN" (FOR THE PURPOSE OF THIS ARTICLE) SHALL BE INTERPRETED AS MEANING THE LEVEL OF CLEANLINESS GENERALLY PROVIDED BY SKILLED CLEANERS USING COMMERCIAL QUALITY BUILDING MAINTENANCE EQUIPMENT AND MATERIALS.
  - b. GENERAL: PRIOR TO COMPLETION OF THE WORK, REMOVE FROM THE JOB SITE ALL TOOLS, SURPLUS MATERIALS, EQUIPMENT, SCRAP, DEBRIS, AND WASTE.
  - c. INTERIOR: VISUALLY INSPECT ALL INTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIAL, SMUDGES, AND OTHER FOREIGN MATTER. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES. REMOVE ALL PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM FINISHED SURFACES. USE ONLY THE SPECIFIED CLEANING MATERIALS AND EQUIPMENT.

0550 -METAL FABRICATIONS

1. WORK INCLUDES MISCELLANEOUS SHOP FABRICATED FERROUS METAL ITEMS, INCLUDING BUT NOT LIMITED TO:
   - A. LOOSE STEEL LINTELS
   - B. MISCELLANEOUS FRAMING, SUPPORTS AND TRIM
   - C. ROOF LADDERS
   - D. STEEL DECK PANELS
2. MATERIALS
   - A. STEEL SECTIONS: ASTM A36.
   - B. STEEL TUBING: ASTM A500 OR ASTM A501.
   - C. STAINLESS STEEL: TYPE 304 (18-8), ASTM A269; SATIN POLISHED FINISH.
   - D. STEEL PIPE: ASTM A53, GRADE B, STANDARD WEIGHT (SCHEDULE 40).
   - E. MALLEABLE IRON CASTINGS; ASTM A47.
   - F. BOLTS, NUTS, AND WASHERS. ASTM A307.
   - G. WELDING MATERIALS: ASW D1.1; TYPE REQUIRED FOR MATERIALS BEING WELDED.
   - H. PRIMER SSPC-PAINT 2, FOR SHOP APPLICATION AND FIELD TOUCH-UP.
   - I. STEEL DECK PANELS: ASTM A446 WITH G90 GALVANIZED COATING, STEEL ASTM A611, GRADE C, SHOP PRIMED.
3. FABRICATION:
   - A. VERIFY DIMENSIONS IN FIELD PRIOR TO SHOP FABRICATION.
   - B. FABRICATE ITEMS WITH JOINTS TIGHTLY FITTED AND SECURED.
   - C. FIT AND SHOP ASSEMBLE IN LARGEST PRACTICAL SECTIONS, FOR DELIVERY TO SITE.
   - D. PRIME PAINT ITEMS SCHEDULE TO PROVIDE A UNIFORM DRY FILM THICKNESS OF 2.0 MILS.

0720 - THERMAL INSULATION

- A. GENERAL: PROVIDE THERMAL INSULATION WITH ACCESSORIES AS REQUIRED FOR COMPLETE INSTALLATION.
  - 1. INSULATION INTEGRAL WITH ROOFING AND INSULATION IN EXTERIOR WALLS.
- B. ACCESSORIES: PROVIDE TAPE OR PENETRATION ANCHORS WHERE REQUIRED TO ENSURE PERMANENT INSTALLATION.

A. MATERIALS:
- 1.1 ROOF INSULATION POLYISOCYANURATE INSULATION BOARD FIRESTONE STANDARD ISO 95+GL (OR EQUAL) COVER BOARD FIRESTONE ASTM C1289 TYPE II, CLASS 4 ISOGARD HD COMPOSITE COVER BOARD (OR EQUAL)
- 1.2 THERMAL BATT INSULATION: PREFORMED GLASS FIBER BATT WITH FSK-25 REFLECTIVE MEMBRANE ON ONE SIDE ASTM C665 TYPE III, CLASS A KNAUF INSULATION ECOBATT INSULATION (OR EQUAL).
- 1.3 TAPE: TO MATCH FOIL SCRIM KRAFT FACE; 2 INCH WIDTH.
- 1.4 EXTRUDED POLYSTYRENE (XPS) RIGID FOAM INSULATION UNDER GRADE. ASTM C578 TYPE IV OWENS CORNING FOAMULAR 250 (OR EQUAL).
- 1.5 ACOUSTICAL BATT INSULATION PERFORMED FIBER BATT UNFACED ASTM C665 TYPE I, CLASS A KNAUF INSULATION ECOBATT INSULATION (OR EQUAL).

B. INSTALLATION:
1. INSTALL INSULATION IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND AS INDICATED.
2. TRIM INSULATION NEATLY TO FIT SPACES. INSTALL WITHOUT GAPS OR VOIDS.
3. INSTALLATION OF THERMAL BATT INSULATION:
   - 3.1. INSTALL INSULATION WITH VAPOR BARRIER TOWARD WARM SIDE OF BUILDING SPACES. VAPOR BARRIER SHALL BE CONTINUOUS. TAPE SEAL TEARS OR CUTS IN VAPOR BARRIER
   - 3.2. PACK BATT INSULATION IN SHIM SPACES AT PERIMETER OF WINDOW ASSEMBLY TO MAINTAIN CONTINUITY OF THERMAL BARRIER.
   - 3.3. MECHANICAL FASTENING:
     - 3.3.1. AT LOCATIONS WHERE NO FRAMING IS PRESENT TO SUPPORT THE INSULATION, PROVIDE METAL IMPALING PINS AND RETAINERS TO HOLD THE INSULATION FIRMLY IN PLACE.
     - 3.3.2. MECHANICALLY OR ADHESIVELY BOND THE RETAINING PINS TO THE SUBSTRATE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
     - 3.3.3. SPACE PINS AT MAXIMUM 24 INCHES ON CENTER ALONG THE EDGES AND WITHIN THE FIELD OF THE BLANKET. PLACE EDGE PINS WITHIN 6 INCHES FROM THE EDGE OF THE BATT.
4. INSTALLATION OF RIGID PERIMETER INSULATION: INSTALL INSULATION TO 24" BELOW GRADE WITH PROTECTION BOARD.

C. R VALUE SCHEDULE:
- 1.1 PROVIDE INSULATION IN SUFFICIENT THICKNESS SEE INSULATION REQUIREMENTS ON SHEET A3.1 (BUILDING SECTIONS) AND COMCHECK REPORT.

7457 CEMENTITIOUS PANELS

PART 1 GENERAL

1.1. SECTION INCLUDES
- A. CEMENTITIOUS EXPRESS/REVEAL JOINTED PANELS WITH ACCESSORIES. (JAMES HARDIE HZ5 HARDIE REVEAL PANELS).

PART 2 PRODUCTS

2.1 MANUFACTURERS
- A. ACCEPTABLE MANUFACTURER: JAMES HARDIE BUILDING PRODUCTS, INC., WHICH IS LOCATED AT: 231 SOUTH LASALLE STREET UNIT 2000, CHICAGO, IL 60606. ASD. TOLL FREE TEL: 866-274-3464; TEL: 312-705-6000; EMAIL: INFO@JAMESHARDIE.COM; WEB: HTTP://WWW.JAMESHARDIEPROS.COM/PRODUCTS/HARDIE-REVEAL-PANEL-SYSTEM

2.2 CLADDING
- A. CEMENT CLADDING PANELS: HARDIE REVEAL PANEL AS MANUFACTURED BT JAMES HARDIE BUILDING PRODUCTS, INC. 5/16 INCHES THICK, 3 FEET 11.5 INCHES (1206 MM) WIDE BY 7 FEET 11.5 INCHES (2426) MM LONG. PRODUCT SHALL BE ENGINEERED FOR CLIMATE CONDITIONS.
  - 1. MANUFACTURER'S CLIMATE ZONE PRODUCT: HZ5 FOR COLD CLIMATES WITH A YELLOW TINT PRIMER - SMOOTH FINISH.
- B. CODE COMPLIANCE REQUIREMENT FOR SIDING MATERIALS:
  - 1. FIBER-CEMENT SIDING, COMPLIES WITH ASTM C 1186 TYPE A GRADE II.
  - 2. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 136 AS A NONCOMBUSTIBLE MATERIAL.
  - 3. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX=5.
  - 4. FIBER-CEMENT SIDING, COMPLIES WITH ASTM E 119 1 HOUR AND 2 HOUR FIRE RESISTIVE ASSEMBLIES LISTED WITH WARNOCK HERSEY.
  - 5. FIBER-CEMENT SIDING, TESTED TO ASTM E330 FOR TRANSVERSE LOADS.
  - 6. INTERTEK WARNOCK HERSEY PRODUCT LISTING.
  - 7. MANUFACTURER'S TECHNICAL DATA SHEET.

2.3 WEATHER BARRIER
- A. WEATHER BARRIER: JAMES HARDIE HARDIEWRAP AND HARDIEWRAP FLASHING AND SEAM TAPES (OR EQUAL).
- B. CODE COMPLIANCE REQUIREMENT FOR WEATHER BARRIER:
  - 1. THICKNESS, 11 MIL SHEET.
  - 2. BREATHABILITY IN ACCORDANCE WITH ASTM E96.
  - 3. TEAR STRENGTH IN ACCORDANCE WITH ASTM D1117.
  - 4. WATER RESISTANCE IN ACCORDANCE WITH AATCC127.
  - 5. AIR PENETRATION IN ACCORDANCE WITH TAPPI-T460.
  - 6. HARDIEWRAP WEATHER BARRIER ICC-ES EVALUATION REPORT ESR-2258.

2.4 ACCESSORIES
- A. TRIMS: REVEAL TRIMS MANUFACTURED BY CUSTOM ALUMINUM OF ELGIN, IL IN THE FOLLOWING PROFILES SUPPLIED BY JAMES HARDIE. ALUMINUM ALLOY 6063-T5 WITH A MINIMUM THICKNESS OF 0.050 INCH. ALL REVEAL TRIMS ARE 8 FEET IN LENGTH.
  - 1. SURROUND HORIZONTAL TRIM.
  - 2. SURROUND VERTICAL TRIM.
  - 3. SURROUND HORIZONTAL END CUT TRANSITION TRIM.
  - 4. SURROUND OUTSIDE CORNER TRIM.
  - 5. SURROUND INSIDE CORNER TRIM.
  - 6. SURROUND J CHANNEL TRIM.
  - 7. SURROUND DRAINAGE FLASHING
  - 8. RECESS HORIZONTAL TRIM.
  - 9. RECESS HORIZONTAL EDGE TRIM.
  - 10. RECESS VERTICAL F-TRIM.
  - 11. RECESS OUTSIDE CORNER TRIM.
  - 12. RECESS DRAINAGE FLASHING.
- B. TRIMS: TRIM BY FRY REGLET
  - 1. V2 VERTICAL MOLDING

2.5 FASTENERS
- A. FASTENERS: FOR ATTACHING HARDIE REVEAL PANEL DIRECT TO SHEATHING TO A RAIN SCREEN PROVIDE THE FOLLOWING:
  - 1. WOOD FRAMING, FLATHEAD SCREWS: NO. 8 BY 1-1/2 INCH LONG, PAINT TO MATCH PANELS.
  - 2. FASTENERS SHALL BE OF HIGH QUALITY STAINLESS STEEL TO ENSURE RESISTANCE TO CORROSION. FOR FIELD PAINTING, FASTENERS SHALL BE TREATED TO ACCEPT PAINT ADHESION.

PART 3 EXECUTION

3.1 EXAMINATION
- A. DO NOT BEGIN INSTALLATION UNTIL SUBSTRATES HAVE BEEN PROPERLY PREPARED.
- B. IF FRAMING PREPARATION IS THE RESPONSIBILITY OF ANOTHER INSTALLER, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.

3.2 PREPARATION
- A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
- B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
- C. ENSURE THAT DRAINAGE PLANE IN INTACT AND ALL PENETRATIONS ARE SEALED.

3.3 INSTALLATION
- A. WOOD FRAMING: NOMINAL 2 INCH BY 4 INCH (51 MM BY 102 MM) WOOD FRAMING SELECTED FOR MINIMAL SHRINKAGE AND COMPLYING WITH LOCAL BUILDING CODES, INCLUDING THE USE OF WATER-RESISTIVE BARRIERS OR VAPOR BARRIERS WHERE REQUIRED. MINIMUM 1-1/2 INCHES (38 MM) FACE AND STRAIGHT, TRUE, OF UNIFORM DIMENSIONS AND PROPERLY ALIGNED.
  - 1. INSTALL WATER-RESISTIVE BARRIERS AND CLADDINGS TO DRY SURFACES.
  - 2. REPAIR AND PUNCTURES OR TEARS IN THE WATER-RESISTIVE BARRIER PRIOR TO THE INSTALLATION OF THE SIDING.
  - 3. PROTECT SIDING FROM OTHER TRADES.

07462 SIDING

PART 1 GENERAL

1.1. SECTION INCLUDES
- A. FIBER CEMENT LAP SIDING, PANELS, SHINGLE, TRIM, FASCIA, MOULDING AND ACCESSORIES; JAMES HARDIE HZ5 ENGINEERED FOR CLIMATE SIDING.

1.2 WARRANTY
- A. PRODUCT WARRANTY: LIMITED, NON-PRO-RATED PRODUCT WARRANTY.
  - 1. HARDIEPLANK HZ5 LAP SIDING FOR 30 YEARS.
- B. WORKMANSHIP WARRANTY: APPLICATION LIMITED WARRANTY FOR 2 YEARS.

07462 SIDING

PART 2 PRODUCTS

2.1 MANUFACTURERS
- A. ACCEPTABLE MANUFACTURER: JAMES HARDIE BUILDING PRODUCTS, INC., WHICH IS LOCATED AT: 26300 LA ALAMEDA SUITE 400 ; MISSION VIEJO, CA 92691; TOLL FREE TEL: 866-274-3464; TEL: 949-367-4980; FAX: 949-367-4981; EMAIL: REQUEST INFO (INFO@JAMESHARDIE.COM); WEB: WWW.JAMESHARDIECOMMERCIAL.COM

2.2 SIDING
- A. HARDIEPLANK HZ5 LAP SIDING:
  - 1. FIBER-CEMENT SIDING - COMPLIES WITH ASTM C 1186 TYPE A GRADE II.
  - 2. FIBER-CEMENT SIDING - COMPLIES WITH ASTM E 136 AS A NONCOMBUSTIBLE MATERIAL.
  - 3. FIBER-CEMENT SIDING - COMPLIES WITH ASTM E 84 FLAME SPREAD INDEX = 0, SMOKE DEVELOPED INDEX = 5.
  - 4. CAL-FIRE, FIRE ENGINEERING DIVISION BUILDING MATERIALS LISTING - WILDLAND URBAN INTERFACE (WUI) LISTED PRODUCT.
  - 5. NATIONAL EVALUATION REPORT NO. NER 405 (BOCA, ICBO, SBCCI, IBC, IRC).
  - 6. CITY OF LOS ANGELES, RESEARCH REPORT NO. 24862.
  - 7. MIAMI DADE COUNTY, FLORIDA NOTICE OF ACCEPTANCE 02-0729.02.
  - 8. US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT MATERIALS RELEASE 1263D.
  - 9. CALIFORNIA DSA PA-019.
  - 10. CITY OF NEW YORK M EA 223-93-M.
  - 11. FLORIDA STATE PRODUCT APPROVAL FL889.
  - 12. TEXAS DEPARTMENT OF INSURANCE PRODUCT EVALUATION EC-23.
  - 13. ICC ESR REPORTS #2290, #1844
- A. LAP SIDING: HARDIEPLANK HZ5 LAP AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.
  - 1. TYPE: SELECT CEDARMILL 6-1/4 INCHES (159 MM) WITH 5 INCHES (127 MM) EXPOSURE.
- C. TRIM:
  - 1. HARDIETRIM HZ5 BOARDS AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.
  - 2. HARDIETRIM HZ5 FASCIA BOARDS AS MANUFACTURED BY JAMES HARDIE BUILDING PRODUCTS, INC.

2.3 FASTENERS
- A. WOOD FRAMING FASTENERS:
  - 1. WOOD FRAMING: 4D COMMON CORROSION RESISTANT NAILS.
  - 2. WOOD FRAMING: 6D COMMON CORROSION RESISTANT NAILS.
  - 3. WOOD FRAMING: 8D BOX RING COMMON CORROSION RESISTANT NAILS.
  - 4. WOOD FRAMING: 0.089 INCH (2.2 MM) SHANK BY 0.221 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.
  - 5. WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2 INCHES (51 MM) CORROSION RESISTANT SIDING NAILS.
  - 6. WOOD FRAMING: 0.093 INCH (2.4 MM) SHANK BY 0.222 INCH (5.6 MM) HEAD BY 2-1/2 INCHES (64 MM) CORROSION RESISTANT NAILS.
  - 7. WOOD FRAMING: 0.091 INCH (2.3 MM) SHANK BY 0.221 INCH (5.6 MM) HEAD BY 1-1/2 INCHES (38 MM) CORROSION RESISTANT SIDING NAILS.
  - 8. WOOD FRAMING: 0.091 INCH (2.3 MM) SHANK BY 0.225 INCH (5.7 MM) HEAD BY 1-1/2 INCHES (38 MM) CORROSION RESISTANT SIDING NAILS.
  - 9. WOOD FRAMING: 0.121 INCH (3 MM) SHANK BY 0.371 INCH (9.44 MM) HEAD BY 1-1/4 INCHES (32 MM) CORROSION RESISTANT ROOFING NAILS.
  - 10. WOOD FRAMING: NO. 11 GAUGE 1-1/4 INCHES (38 MM) CORROSION RESISTANT ROOFING NAILS.
  - 11. WOOD FRAMING: NO. 11 GAUGE 1-1/2 INCHES (38 MM) CORROSION RESISTANT ROOFING NAILS.
  - 12. WOOD FRAMING: NO. 11 GAUGE 1-3/4 INCHES (44 MM) CORROSION RESISTANT ROOFING NAILS.

2.4 FINISHES
- A. FACTORY PRIMER: PROVIDE FACTORY APPLIED UNIVERSAL PRIMER.
  - 1. PRIMER: FACTORY PRIMED BY JAMES HARDIE.

PART 3 EXECUTION

3.1 PREPARATION
- A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
- B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
- C. INSTALL A WATER-RESISTIVE BARRIER IS REQUIRED IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.
- D. THE WATER-RESISTIVE BARRIER MUST BE APPROPRIATELY INSTALLED WITH PENETRATION AND JUNCTION FLASHING IN ACCORDANCE WITH LOCAL BUILDING CODE REQUIREMENTS.

3.2 INSTALLATION- HARDIEPLANK HZ10 LAP SIDING
- A. INSTALL MATERIALS IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B. STARTING: INSTALL A MINIMUM $\frac{1}{4}$ INCH (6 MM) THICK LATH STARTER STRIP AT THE BOTTOM COURSE OF THE WALL. APPLY PLANKS HORIZONTALLY WITH MINIMUM 1-1/4 INCHES (32 MM) WIDE LAPS AT THE TOP THE BOTTOM EDGE OF THE FIRST PLANK OVERLAPS THE STARTER STRIP.
- C. ALLOW MINIMUM VERTICAL CLEARANCE BETWEEN THE EDGE OF SIDING AND ANY OTHER MATERIAL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- D. ALIGN VERTICAL JOINTS OF THE PLANKS OVER FRAMING MEMBERS.
- E. MAINTAIN CLEARANCE BETWEEN SIDING AND ADJACENT FINISHED GRADE.
- F. LOCATE SPLICES AT LEAST ONE STUD CAVITY AWAY FROM WINDOW AND DOOR OPENINGS.
- G. USE OFF-STUD METAL JOINER IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- H. WIND RESISTANCE: WHERE A SPECIFIED LEVEL OF WIND RESISTANCE IS REQUIRED HARDIEPLANK LAP SIDING IS INSTALLED TO FRAMING MEMBERS AND SECURED WITH FASTENERS DESCRIBED IN TABLE NO. 2 IN NATIONAL EVALUATION SERVICE REPORT NO. NER-405.
- I. FACE NAIL TO SHEATHING.
- J. LOCATE SPLICES AT LEAST 12 INCHES (305 MM) AWAY FROM WINDOW AND DOOR OPENINGS.

0753 - ROOFING SYSTEM

PART 1 GENERAL

1.1 SUMMARY
- A. MEMBRANE TYPE: DURO-LAST 50-MIL MEMBRANE (ROLL GOODS)
  - 1. ROLL WIDTH: 60" (INSTALLED WIDTHS MAY VARY)
  - 2. MEMBRANE COLOR: WHITE
  - 3. ATTACHMENT TYPE: MECHANICALLY FASTENED
  - 4. FASTENERS: DURO-LAST® HD SCREW (#14)
  - 5. PLATES: DURO-LAST® CLEAT PLATE™
- B. INSULATION LAYER 1 TYPE: DURO-GUARD® ISO HD COMPOSITE (COATED GLASS FACER)
  - 1. BOARD APPLICATION: FLAT STOCK
  - 2. BOARD STYLE: LAYER THICKNESS
  - 3. BOARD SIZE: 4' X 8'
  - 4. THICKNESS: 2.5"
  - 5. ATTACHMENT TYPE: MECHANICALLY FASTENED
  - 6. FASTENERS: DURO-LAST® HD SCREW (#14)
  - 7. PLATES: DURO-LAST® INSULATION PLATE
- C. INSULATION LAYER 2 TYPE: DURO-GUARD® ISO II (GLASS REINFORCED FACER)
  - 1. BOARD APPLICATION: FLAT STOCK
  - 2. BOARD STYLE: MIN. ASSEMBLY R-VALUE
  - 3. BOARD SIZE: 4' X 8'
  - 4. THICKNESS/R-VALUE: R-25
  - 5. ATTACHMENT TYPE: MECHANICALLY FASTENED
  - 6. FASTENERS: DURO-LAST® HD SCREW (#14)
  - 7. PLATES: DURO-LAST® 3-INCH METAL PLATE
- C. DECK TYPE: PLYWOOD (1/2 IN.)
- D. PREFABRICATED FLASHINGS, CORNERS, PARAPETS, STACKS, VENTS, AND RELATED DETAILS.
- E. FASTENERS, ADHESIVES, AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE ROOFING INSTALLATION.
- F. TRAFFIC PROTECTION.

1.2 REFERENCES
- A. ASTM INTERNATIONAL (ASTM)
  - 1. (2019) STANDARD TEST METHODS FOR COATED FABRICS (D751)
  - 2. (2021) STANDARD SPECIFICATION FOR POLY(VINYL CHLORIDE) SHEET ROOFING (D4434/D4434M)
  - 3. (2022) STANDARD SPECIFICATION FOR FACED RIGID CELLULAR POLYISOCYANURATE THERMAL INSULATION BOARD (C1289)
  - 4. (2020) STANDARD TEST METHODS FOR FIRE TESTS OF ROOF COVERINGS (E108)
  - 5. (2020) STANDARD TEST METHODS FOR FIRE TESTS OF BUILDING CONSTRUCTION AND MATERIALS (E119)
- B. UL SOLUTIONS (UL)
  - 1. (2021) UL ROOFING SYSTEMS (TGFU.R10128)
- C. AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE)
  - 1. (2007) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE STANDARD - ASCE/SEI 7-05)
  - 2. (2014) MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES (ASCE STANDARD - ASCE/SEI 7-10)
  - 3. (2017) MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES (ASCE STANDARD - ASCE/SEI 7-16)
- D. NATIONAL ROOFING CONTRACTORS ASSOCIATION (NRCA)
  - 1. (2019) NRCA ROOFING MANUAL - MEMBRANE SYSTEMS

1.3 SYSTEM DESCRIPTION
- A. GENERAL: PROVIDE INSTALLED ROOFING MEMBRANE AND BASE FLASHINGS THAT REMAIN WATERTIGHT; DO NOT PERMIT THE PASSAGE OF WATER; AND RESIST SPECIFIED UPLIFT PRESSURES, THERMALLY INDUCED MOVEMENT, AND EXPOSURE TO WEATHER WITHOUT FAILURE.
- B. MATERIAL COMPATIBILITY: PROVIDE ROOFING MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER UNDER CONDITIONS OF SERVICE AND APPLICATION REQUIRED, AS DEMONSTRATED BY ROOFING MEMBRANE MANUFACTURER BASED ON TESTING AND FIELD EXPERIENCE.
- C. PHYSICAL PROPERTIES (MUST MEET OR EXCEED):
  - 1. ROOF PRODUCT MUST MEET THE REQUIREMENTS OF TYPE III PVC SHEET ROOFING AS DEFINED BY ASTM D4434.
  - 2. THICKNESS: 50 MIL, NOMINAL, IN ACCORDANCE WITH ASTM D751.
  - 3. THICKNESS OVER SCRIM: ≥ 28 MIL IN ACCORDANCE WITH ASTM D7635.
  - 4. BREAKING STRENGTH: ≥ 438 LBF. (MACHINE DIRECTION) AND ≥ 390 LBF. (CROSS MACHINE DIRECTION) IN ACCORDANCE WITH ASTM D751 GRAB METHOD.
  - 5. ELONGATION AT BREAK: ≥ 31% (MACHINE DIRECTION) AND ≥ 31% (CROSS MACHINE DIRECTION) IN ACCORDANCE WITH ASTM D751 GRAB METHOD.
  - 6. SEAM STRENGTH: ≥ 417 LBF. IN ACCORDANCE WITH ASTM D751 GRAB METHOD.
  - 7. TEAR STRENGTH: ≥ 132 LBF. (MACHINE DIRECTION) AND ≥ 163 LBF. (CROSS MACHINE DIRECTION) IN ACCORDANCE WITH ASTM D751 PROCEDURE B.
  - 8. LOW TEMPERATURE BEND: PASS AT -40 °F IN ACCORDANCE WITH ASTM D2136.
  - 9. HEAT AGING: PASS AFTER BEING CONDITIONED FOR 56 DAYS IN OVEN MAINTAINED AT 176°F IN ACCORDANCE WITH ASTM D3045.
  - 10. ACCELERATED AGING: PASS AFTER 10,000 HOURS OF TOTAL TEST TIME IN ACCORDANCE WITH ASTM G155.
  - 11. DIMENSIONAL STABILITY: CHANGE OF -0.30% (MACHINE DIRECTION) AND -0.45% (CROSS MACHINE DIRECTION) IN ACCORDANCE WITH ASTM 1204.
  - 12. WATER ABSORPTION: < 1.7% AT 158 °F FOR 168 HOURS IN ACCORDANCE WITH ASTM D570.
  - 13. STATIC PUNCTURE RESISTANCE: ≥ 56 LBF. IN ACCORDANCE WITH ASTM D5602.
  - 14. DYNAMIC PUNCTURE RESISTANCE: ≥ 14.7 FT-LBF. IN ACCORDANCE WITH ASTM D5635.
- D. COOL ROOF RATING COUNCIL (CRRC) (MEMBRANE MUST BE LISTED ON THE CRRC WEBSITE):
  - 1. SOLAR REFLECTANCE (INITIAL): ≥ 86%
  - 2. SOLAR REFLECTANCE (3-YEAR AGED): ≥ 74%
  - 3. THERMAL EMITTANCE (INITIAL): ≥ 89%
  - 4. THERMAL EMITTANCE (3-YEAR AGED): ≥ 89%
  - 5. SOLAR REFLECTANCE INDEX (SRI) (INITIAL): ≥ 108%
  - 6. SOLAR REFLECTANCE INDEX (SRI) (3-YEAR AGED): ≥ 91%
- E. INSULATION:
  - 1. GENERAL REQUIREMENTS
    - a. INSTALL USING A MINIMUM OF TWO LAYERS.
    - b. CONFIGURATION AS INDICATED ON THE DRAWINGS.
  - 2. DURO-GUARD® ISO II (GLASS REINFORCED FACER)
    - a. MIN. ASSEMBLY R-VALUE: R-25

0753 - ROOFING SYSTEM

1.4 SUBMITTALS
- A. PRODUCT DATA SHEETS TO BE USED, WITH THE FOLLOWING INFORMATION INCLUDED:
  - 1. PREPARATION INSTRUCTIONS AND RECOMMENDATIONS
  - 2. STORAGE AND HANDLING REQUIREMENTS AND RECOMMENDATIONS
  - 3. INSTALLATION METHODS
  - 4. MAINTENANCE REQUIREMENTS
- B. SUSTAINABILITY DOCUMENTATION:
  - 1. NSF/ANSI STANDARD 347 CERTIFICATE
  - 2. TYPE III PRODUCT-SPECIFIC ENVIRONMENTAL PRODUCT DECLARATION
- C. SHOP DRAWINGS: INDICATE INSULATION PATTERN, OVERALL MEMBRANE LAYOUT, FIELD SEAM LOCATIONS, JOINT OR TERMINATION DETAIL CONDITIONS, AND LOCATION OF FASTENERS.
- D. PROVIDE VERIFICATION SAMPLES FOR EACH PRODUCT SPECIFIED (TWO SAMPLES REPRESENTING EACH PRODUCT, COLOR AND FINISH):
  - 1. 4-INCH BY 6-INCH SAMPLE OF ROOFING MEMBRANE, OF COLOR SPECIFIED.
  - 2. 4-INCH BY 6-INCH SAMPLE OF WALKWAY PAD.
  - 3. TERMINATION BAR, FASCIA BAR WITH COVER, DRIP EDGE, AND GRAVEL STOP IF TO BE USED.
  - 4. EACH FASTENER TYPE TO BE USED FOR INSTALLING MEMBRANE, INSULATION/RECOVER BOARD, TERMINATION BAR AND EDGE DETAILS.
- E. INSTALLER CERTIFICATION: CERTIFICATION FROM THE ROOFING SYSTEM MANUFACTURER THAT INSTALLER IS APPROVED, AUTHORIZED, OR LICENSED BY MANUFACTURER TO INSTALL ROOFING SYSTEM.
- F. MANUFACTURER'S WARRANTIES.

1.5 QUALITY ASSURANCE
- A. PERFORM WORK IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B. MANUFACTURER QUALIFICATIONS: A MANUFACTURER SPECIALIZING IN THE PRODUCTION OF PVC MEMBRANES SYSTEMS AND UTILIZING A QUALITY CONTROL MANUAL DURING THE PRODUCTION OF THE MEMBRANE ROOFING SYSTEM THAT HAS BEEN APPROVED BY AND IS INSPECTED BY UNDERWRITERS LABORATORIES.
- C. INSTALLER QUALIFICATIONS: COMPANY SPECIALIZING IN INSTALLATION OF ROOFING SYSTEMS SIMILAR TO THOSE SPECIFIED IN THIS PROJECT AND APPROVED BY THE ROOFING SYSTEM MANUFACTURER.
- D. SOURCE LIMITATIONS: OBTAIN COMPONENTS FOR MEMBRANE ROOFING SYSTEM FROM ROOFING MEMBRANE MANUFACTURER.
- E. THERE SHALL BE NO DEVIATIONS FROM THE ROOF MEMBRANE MANUFACTURER'S SPECIFICATIONS OR THE APPROVED SHOP DRAWINGS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE MANUFACTURER.

PART 2 PRODUCTS

2.1 MANUFACTURER
- A. MANUFACTURER: DURO-LAST ROOFING, WHICH IS LOCATED AT: 525 MORLEY DRIVE, SAGINAW, MI TELEPHONE: 800-248-0280.
- B. ALL ROOFING SYSTEM COMPONENTS TO BE PROVIDED OR APPROVED BY DURO-LAST ROOFING, INC.
- C. SUBSTITUTIONS: NOT PERMITTED.

2.2 ROOFING SYSTEM COMPONENTS
- A. ROOFING MEMBRANE:
  - 1. PROPERTIES:
    - a. TYPE: DURO-LAST 50-MIL MEMBRANE (ROLL GOODS)
    - b. ROLL WIDTH: 60" (INSTALLED WIDTHS MAY VARY)
    - c. MEMBRANE COLOR: WHITE
    - d. ATTACHMENT TYPE: MECHANICALLY FASTENED
    - e. FASTENERS: DURO-LAST® HD SCREW (#14)
    - f. PLATES: DURO-LAST® CLEAT PLATE™
  - 2. FEATURES:
    - a. ASTM D4434, TYPE III
    - b. FABRIC-REINFORCED, PVC, NSF/ANSI 347 GOLD OR PLATINUM CERTIFICATION, AND A PRODUCT-SPECIFIC THIRD-PARTY VERIFIED ENVIRONMENTAL PRODUCT DECLARATION.
    - c. MINIMUM RECYCLE CONTENT 7% POST-INDUSTRIAL AND 0% POST-CONSUMER.
    - d. RECYCLED AT END OF LIFE INTO RESILIENT FLOORING OR CONCRETE EXPANSION JOINTS.
- B. INSULATION:
  - 1. GENERAL REQUIREMENTS
    - a. PROVIDE PREFORMED ROOF INSULATION BOARDS THAT COMPLY WITH REQUIREMENTS AND REFERENCED STANDARDS, AS SELECTED FROM MANUFACTURER'S STANDARD SIZES.
    - b. PROVIDE PREFORMED SADDLES, CRICKETS, AND OTHER INSULATION SHAPES WHERE INDICATED FOR SLOPING TO DRAIN. FABRICATE TO SLOPES INDICATED.
    - c. PROVIDE ROOF INSULATION ACCESSORIES APPROVED BY THE ROOF MEMBRANE MANUFACTURER AND AS RECOMMENDED BY INSULATION MANUFACTURER FOR THE INTENDED USE.
  - 2. COMPONENT:
    - a. PROPERTIES:
  - 1. TYPE: DURO-GUARD® ISO II (GLASS REINFORCED FACER)
  - 2. BOARD APPLICATION: FLAT STOCK
  - 3. SIZE: 4' x 8'
  - 4. METHOD: MIN. ASSEMBLY R-VALUE: PER BUILDING SECTIONS SHEET A3.1.
  - 5. ATTACHMENT TYPE: MECHANICALLY FASTENED
  - 6. FASTENERS: DURO-LAST® HD SCREW (#14)
  - 7. PLATES: DURO-LAST® 3-INCH METAL PLATE
    - b. FEATURES:
  - 1. CLOSED-CELL POLYISOCYANURATE FOAM CORE INSULATION BOARD.
  - 2. COMPLYING WITH ASTM C1289, TYPE II, FELT OR GLASS-FIBER MAT FACER ON BOTH MAJOR SURFACES.
  - 3. PROVIDE DURO-LAST FACTORY-COATED STEEL FASTENERS AND METAL OR PLASTIC PLATES MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING INSULATION AND/OR INSULATION COVER BOARDS IN CONFORMANCE TO SPECIFIED DESIGN REQUIREMENTS.
- C. DECK TYPE:
  - 1. PROPERTIES:
    - a. TYPE: OSB DECK (1/2 IN.)
- D. ACCESSORY MATERIALS: PROVIDE ACCESSORY MATERIALS SUPPLIED BY OR APPROVED FOR USE BY DURO-LAST ROOFING, INC.:
  - 1. SHEET FLASHING: MANUFACTURER'S STANDARD REINFORCED PVC SHEET FLASHING.
  - 2. PREFAB FLASHINGS: MANUFACTURED USING STANDARD REINFORCED PVC MEMBRANE.
    - a. DURO-LAST® TWO-WAY AIR VENT
    - b. DURO-LAST® INSIDE AND OUTSIDE CORNERS
    - c. DURO-LAST® STACK FLASHING
    - d. DURO-LAST® CURB FLASHING
    - e. DURO-LAST® MATERIAL SCUPPERS
  - 3. FASTENERS: FACTORY-COATED STEEL FASTENERS MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING MEMBRANE AND INSULATION TO SUBSTRATE. SUPPLIED BY DURO-LAST ROOFING, INC.
    - a. DURO-LAST® HD SCREW (#14)
  - 4. PLATES: METAL OR PLASTIC PLATES MEETING CORROSION-RESISTANCE PROVISIONS IN FMG 4470, DESIGNED FOR FASTENING MEMBRANE AND INSULATION TO SUBSTRATE. SUPPLIED BY DURO-LAST ROOFING, INC.
    - a. DURO-LAST® CLEAT PLATE™
    - b. DURO-LAST® 3-INCH METAL PLATE
  - 5. CAULK: COMPATIBLE WITH ROOFING SYSTEM AND SUPPLIED BY DURO-LAST ROOFING, INC.
    - a. DURO-CAULK® PLUS
  - 6. METAL TERMINATION: SUPPLIED BY DURO-LAST ROOFING, INC.
    - a. UNIVERSAL 2-PIECE COMPRESSION SYSTEM
    - i. ANSI/SPRI ES-1 COMPLIANT WITH 3" TO 8" BASE AND COVER.
  - 7. GUTTER AND DOWNSPOUT: SUPPLIED BY DURO-LAST ROOFING, INC.
    - a. DOWNSPOUT
    - b. CONDUCTOR HEAD

PART 3 EXECUTION

3.1 EXAMINATION
- B. VERIFY THAT THE SURFACES AND SITE CONDITIONS ARE READY TO RECEIVE WORK.
- C. VERIFY THAT THE DECK IS SUPPORTED AND SECURED.
- D. VERIFY THAT THE DECK IS CLEAN AND SMOOTH, FREE OF DEPRESSIONS, WAVES, OR PROJECTIONS, AND PROPERLY SLOPED TO DRAINS, VALLEYS, EAVES, SCUPPERS OR GUTTERS.
- E. VERIFY THAT THE DECK SURFACES ARE DRY AND FREE OF STANDING WATER, ICE OR SNOW.
- F. VERIFY THAT ALL ROOF OPENINGS OR PENETRATIONS THROUGH THE ROOF ARE SOLIDLY SET.
- G. IF SUBSTRATE PREPARATION IS THE RESPONSIBILITY OF ANOTHER CONTRACTOR, NOTIFY ARCHITECT OF UNSATISFACTORY PREPARATION BEFORE PROCEEDING.

3.2 PREPARATION
- A. CLEAN SURFACES THOROUGHLY PRIOR TO INSTALLATION.
- B. PREPARE SURFACES USING THE METHODS RECOMMENDED BY THE MANUFACTURER FOR ACHIEVING THE BEST RESULT FOR THE SUBSTRATE UNDER THE PROJECT CONDITIONS.
- C. SURFACES SHALL BE CLEAN, SMOOTH, FREE OF FINS, SHARP EDGES, LOOSE AND FOREIGN MATERIAL, OIL, GREASE, AND BITUMEN.

3.3 INSTALLATION
- A. INSULATION:
  - 1. GENERAL REQUIREMENTS
    - a. INSTALL INSULATION IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS.
    - b. INSULATION SHALL BE ADEQUATELY SUPPORTED TO SUSTAIN NORMAL FOOT TRAFFIC WITHOUT DAMAGE.
    - c. WHERE FIELD TRIMMED, INSULATION SHALL BE FITTED TIGHTLY AROUND ROOF PROTRUSIONS WITH NO GAPS GREATER THAN ¼ INCH.
    - d. TAPERED INSULATION BOARDS SHALL BE INSTALLED IN ACCORDANCE WITH THE INSULATION MANUFACTURER'S SHOP DRAWINGS.
    - e. NO MORE INSULATION SHALL BE APPLIED THAN CAN BE COVERED WITH THE ROOF MEMBRANE BY THE END OF THE DAY OR THE ONSET OF INCLEMENT WEATHER.
    - f. IF MORE THAN ONE LAYER OF INSULATION IS USED, ALL JOINTS BETWEEN SUBSEQUENT LAYERS SHALL BE OFFSET BY AT LEAST 6 INCHES.
  - 2. DURO-GUARD® ISO II (GLASS REINFORCED FACER)
    - a. USE ONLY FASTENERS, STRESS PLATES AND FASTENING PATTERNS ACCEPTED FOR USE BY THE ROOF MANUFACTURER. FASTENING PATTERNS MUST MEET APPLICABLE DESIGN REQUIREMENTS.
    - b. INSTALL FASTENERS IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS. FASTENERS THAT ARE IMPROPERLY INSTALLED MUST BE REPLACED OR CORRECTED.
    - c. INSTALL ALL LAYERS IN PARALLEL COURSES WITH END JOINTS STAGGERED 50% AND ADJACENT BOARDS BUTTED TOGETHER WITH NO GAPS GREATER THAN ¼ INCH.
- B. ROOFING MEMBRANE:
  - 1. GENERAL REQUIREMENTS
    - a. INSTALL MEMBRANE IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS.
    - b. CUT MEMBRANE TO FIT NEATLY AROUND ALL PENETRATIONS AND ROOF PROJECTIONS.
  - 2. DURO-LAST 50-MIL MEMBRANE (ROLL GOODS)
    - a. USE ONLY FASTENERS, STRESS PLATES AND FASTENING PATTERNS ACCEPTED FOR USE BY THE ROOF MANUFACTURER. FASTENING PATTERNS MUST MEET APPLICABLE DESIGN REQUIREMENTS.
    - b. INSTALL FASTENERS IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS. FASTENERS THAT ARE IMPROPERLY INSTALLED MUST BE REPLACED OR CORRECTED.
    - c. MECHANICALLY FASTEN MEMBRANE TO THE STRUCTURAL DECK UTILIZING FASTENERS AND FASTENING PATTERNS IN ACCORDANCE WITH THE ROOF MANUFACTURER'S REQUIREMENTS.
- C. WELD OVERLAPPING SHEETS TOGETHER USING HOT AIR. MINIMUM WELD WIDTH IS 1-1/2 INCHES.
- D. CHECK FIELD WELDED SEAMS FOR CONTINUITY AND INTEGRITY AND REPAIR ALL IMPERFECTIONS BY THE END OF EACH WORK DAY.

REGISTRATION SEAL

6408

FREDERICK J. GOGLIA

4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

REV	DATE	DESCRIPTION	BY
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TITLE:
ARCHITECTURAL SPECIFICATIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.
G0.5

ARCHITECTURAL SPECIFICATIONS - CONTINUED

0753 - ROOFING SYSTEM cont.

E: FLASHINGS: COMPLETE ALL FLASHINGS AND TERMINATIONS AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.

1. PROVIDE SECUREMENT AT ALL MEMBRANE TERMINATIONS AT THE PERIMETER OF EACH ROOF LEVEL, ROOF SECTION, CURB FLASHING, SKYLIGHT, EXPANSION JOINT, INTERIOR WALL, PENTHOUSE, AND OTHER SIMILAR CONDITION.
a. DO NOT APPLY FLASHING OVER EXISTING THRU-WALL FLASHINGS OR WEEP HOLES.
b. SECURE FLASHING ON A VERTICAL SURFACE BEFORE THE SEAM BETWEEN THE FLASHING AND THE MAIN ROOF SHEET IS COMPLETED.
c. EXTEND FLASHING MEMBRANE A MINIMUM OF 6 INCHES (152 MM) ONTO THE MAIN ROOF SHEET BEYOND THE MECHANICAL SECUREMENT.
d. USE CARE TO ENSURE THAT THE FLASHING DOES NOT BRIDGE LOCATIONS WHERE THERE IS A CHANGE IN DIRECTION (E.G. WHERE THE PARAPET MEETS THE ROOF DECK).

2. PENETRATIONS:
a. FLASH ALL PIPES, SUPPORTS, SOIL STACKS, COLD VENTS, AND OTHER PENETRATIONS PASSING THROUGH THE ROOFING MEMBRANE AS INDICATED ON THE DRAWINGS AND IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
b. UTILIZE CUSTOM PREFABRICATED FLASHINGS SUPPLIED BY THE MEMBRANE MANUFACTURER.
c. EXISTING FLASHINGS: REMOVE WHEN NECESSARY TO ALLOW NEW FLASHING TO TERMINATE DIRECTLY TO THE PENETRATION.

3. PIPE CLUSTERS AND UNUSUAL SHAPES:
a. CLUSTERS OF PIPES OR OTHER PENETRATIONS WHICH CANNOT BE SEALED WITH PREFABRICATED MEMBRANE FLASHINGS SHALL BE SEALED BY SURROUNDING THEM WITH A PREFABRICATED VINYL-COATED METAL PITCH PAN AND SEALANT SUPPLIED BY THE MEMBRANE MANUFACTURER.
b. VINYL-COATED METAL PITCH PANS SHALL BE INSTALLED, FLASHED AND FILLED WITH SEALANT IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
c. PITCH PANS SHALL NOT BE USED WHERE PREFABRICATED OR FIELD FABRICATED FLASHINGS ARE POSSIBLE.

F. ROOF DRAINS: COORDINATE INSTALLATION OF ROOF DRAINS AND VENTS.

1. DRAIN ASSEMBLIES WITH CLAMPING RINGS:
a. REMOVE EXISTING ROOFING SYSTEM MATERIALS FROM DRAIN BOWL AND CLAMPING RING.
b. THE MEMBRANE MUST EXTEND BEYOND THE INSIDE OF THE CLAMPING RING.
c. USE A MANUFACTURER SUPPLIED OR APPROVED SEALANT (1/2 TUBE MINIMUM) BETWEEN THE MEMBRANE AND DRAIN BOWL ASSEMBLY.
d. AFTER THE MEMBRANE IS PROPERLY INSTALLED ONTO THE BOWL AND THE CLAMPING RING SET IN PLACE, ALL BOLTS SECURING THE RING MUST BE INSTALLED TO PROVIDE CONSTANT, EVEN COMPRESSION ON THE SEALANT. IF BOLTS ARE BROKEN OR MISSING, REPLACEMENTS MUST BE INSTALLED.

2. DRAIN BOOTS:
a. REMOVE EXISTING FLASHING AND ASPHALT AT EXISTING DRAINS IN PREPARATION FOR SEALANT AND MEMBRANE.
b. USE A MANUFACTURER SUPPLIED OR APPROVED SEALANT (1/2 TUBE MINIMUM) TO THE OUTSIDE OF THE DRAIN BOOT AND INSERT IT INTO THE DRAIN.
c. FASTEN MEMBRANE AROUND THE PERIMETER OF THE DRAIN WITH THE SAME FASTENING PATTERN AS THE FIELD MEMBRANE, NO LESS THAN 1 FASTENER PER DRAIN.
d. INSTALL A PAIR OF COMPOSITE DRAIN RINGS (CDRS) TO COMPRESS THE BOOT TO THE PIPE. ENSURE THE CDR OPENINGS FACE IN OPPOSITE DIRECTIONS.
e. SECURE THE MANUFACTURER'S DRAIN GUARD OVER THE OPENING BY HEAT WELDING THE ATTACHMENT TABS TO THE ROOF MEMBRANE.

G. EDGE DETAILS:

1. PROVIDE EDGE DETAILS AS INDICATED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
2. JOIN INDIVIDUAL SECTIONS IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
3. COORDINATE INSTALLATION OF METAL FLASHING AND COUNTER FLASHING.
4. MANUFACTURED ROOF SPECIALTIES: COORDINATE INSTALLATION OF COPINGS, COUNTER FLASHING SYSTEMS, GUTTERS, DOWNSPOUTS, AND ROOF EXPANSION ASSEMBLIES.

H. WALKWAYS:

1. INSTALL WALKWAYS IN ACCORDANCE WITH THE MEMBRANE MANUFACTURER'S REQUIREMENTS.
2. PROVIDE WALKWAYS WHERE INDICATED ON THE DRAWINGS.
3. INSTALL WALKWAY PADS AT ROOF HATCHES, ACCESS DOORS, ROOFTOP LADDERS AND ALL OTHER TRAFFIC CONCENTRATION POINTS REGARDLESS OF TRAFFIC FREQUENCY. PROVIDED IN AREAS RECEIVING REGULAR TRAFFIC TO SERVICE ROOFTOP UNITS OR WHERE A PASSAGEWAY OVER THE SURFACE IS REQUIRED.
4. DO NOT INSTALL WALKWAYS OVER FLASHINGS OR FIELD SEAMS UNTIL MANUFACTURER'S WARRANTY INSPECTION HAS BEEN COMPLETED.

0753 - ROOFING SYSTEM cont.

I. WATER CUT-OFFS:

1. PROVIDE WATER CUT-OFFS ON A DAILY BASIS AT THE COMPLETION OF WORK AND AT THE ONSET OF INCLEMENT WEATHER.
2. PROVIDE WATER CUT-OFFS TO ENSURE THAT WATER DOES NOT FLOW BENEATH THE COMPLETED SECTIONS OF THE NEW ROOFING SYSTEM.
3. REMOVE WATER CUT-OFFS PRIOR TO THE RESUMPTION OF WORK.
4. THE INTEGRITY OF THE WATER CUT-OFF IS THE SOLE RESPONSIBILITY OF THE ROOFING CONTRACTOR.
5. ANY MEMBRANE CONTAMINATED BY THE CUT-OFF MATERIAL SHALL BE CLEANED OR REMOVED.

3.4 FIELD QUALITY CONTROL
A. THE MEMBRANE MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE A COMPREHENSIVE FINAL INSPECTION AFTER COMPLETION OF THE ROOF SYSTEM. ALL APPLICATION ERRORS SHALL BE ADDRESSED AND FINAL PUNCH LIST COMPLETED.

3.5 PROTECTION
A. PROTECT INSTALLED ROOFING PRODUCTS FROM CONSTRUCTION OPERATIONS UNTIL COMPLETION OF PROJECT.
B. WHERE TRAFFIC IS ANTICIPATED OVER COMPLETED ROOFING MEMBRANE, PROTECT FROM DAMAGE USING DURABLE MATERIALS THAT ARE COMPATIBLE WITH MEMBRANE.
C. REPAIR OR REPLACE DAMAGED PRODUCTS AFTER WORK IS COMPLETED.

0760 - FLASHING & SHEET METAL

A. GENERAL: PROVIDE FLASHING AND SHEET METAL, REGLETS, AND ACCESSORIES AS REQUIRED FOR ROOF REPAIRS AS REQUIRED FOR COMPLETE, WEATHERTIGHT INSTALLATION.
B. STANDARDS: CONFORM TO SMACNA "ARCHITECTURAL SHEET METAL MANUAL" REQUIREMENTS FOR FLASING AND SHEET METAL.
C. DESIGN REQUIREMENTS: ALLOW FOR MOVEMENT OF COMPONENTS WITHOUT CAUSING BUCKLING, FAILURE OF JOINT SEALS, UNDUE STRESS OF FASTENERS OR OTHER DETRIMENTAL EFFECTS WHEN SUBJECT TO 100 YEAR SEASONAL TEMPERATURE RANGES.
D. SUBMITTALS: FURNISH PRODUCT DATA FOR MANUFACTURED PRODUCTS.
E. WARRANTY: CORRECT FAILURE OF METAL FLASHING SYSTEM TO RESIST PENETRATION OF WATER AND DAMAGE FROM WIND; WARRANTY PERIOD TWO YEARS.
F. FLASHING AND SHEET METAL: MATCH EXISTING, BUT NOT LESS THAN FLOLLOWING:
1. GALVANIZED METAL FLASHING: ASTM A526 GALVANIZED STEEL WITH MINIMUM 0.02 COOPER, AND WITH MINIMUM G90 GALVANIZED COATING; MINIMUM 20 GAGE.
2. PREFINISHED METAL FLASHING: 20 GAGE GALVANIZED STEEL WITH FACTORY FINISHED KYNAR 500 TYPE FLUOROPOLYMER COATING AND STIPPABLE PROTECTIVE FILM; COLOR AS SELECTED FROM MANUFACTURER'S FULL RANGE OF COLORS.
3. ALUMINUM FLASHING: ASTM B209, ALLOY AS REQUIRED TO MATCH FINISH SPECIFIED FOR OTHER ALUMINUM COMPONENTS; THICKNESS MINIMUM 0.050" SOFT TEMPER.
4. STAINLESS STEEL SHEET METAL; ASTM A666, 2D ANNEALED FINISH, SOFT TEMPER EXCEPT WHERE HARDER TEMPER IS REQUIRED FOR FORMING OR PERFORMANCE; 0,050" (28 GAGE) TYPICAL.
5. COPPER SHEET METAL: ASTM B370, COLD ROLLED 16OZ. (0.0216") THICK; SOFT TEMPER WHERE REQUIRED FOR FORMING.
G. REGLETS: FRY/SPRINGLOK OR MM SYSTEM/SNAP-TITE REGLETS; FABRICATE OF SAME METAL AS ADJACENT FLASHING AND SHEET METAL.
H. METAL TO METAL SEALANT: BUTYL TYPE; NOT-STAINING, NON-CORROSIVE, NON-SHRINKING, NON-SAGGING, UNTRA-VIOLET AND OZONE RESISTANT.
I. INSTALLATION: COMPLY WITH SMACNA MANUAL.
1. INSTALL METAL FLASHING AND SHEET METAL IN ACCORDANCE WITH SMACNA ARCHITECTURAL SHEET METAL MANUAL; TIGHT IN PLACE, WITH CORNERS SQUARE, SURFACES TRUE AND STRAIGHT IN PLANES, AND LINES ACCURATE TO PROFILES AS INDICATED ON DRAWINGS.
2. INSTALL SEALANTS WHERE REQUIRED TO PREVENT DIRECT WEATHER PENETRATION.
3. COMPLETE INSTALLATION SHALL BE FREE OF RATTLES, NOISE DUE TO THERMAL AND AIR MOVEMENT AND WIND WHISTLES.

0790 -CAULKING & SEALANTS

A. DESCRIPTION:
1.1. WORK INCLUDED: SUPPLY AND INSTALL ALL CAULKING AND SEALANTS WORK AS SHOWN ON DRAWINGS AND SPECIFIED HEREIN. THIS SHALL INCLUDE, BUT NOT IS LIMITED TO, THE FOLLOWING:
a. ALUMINUM ENTRANCE SYSTEM & WINDOWS- SPECIFIED UNDER SECTION 0815 ALUMINUM ENTRANCE SYSTEM.
b. TOILET FIXTURES: CAULK BY PLUMBING CONTRACTOR, COLOR- WHITE.
c. WATER OR WASTE PENETRATIONS: CAULK BY PLUMBING CONTRACTOR, COLOR- WHITE
d. COMPRESSION CUP MAY BE PROVIDED IN LIEU OF CAULK.
e. TILE CORNERS CAULK BY GENERAL CONTRACTOR, COLOR - TBD
f. TILE AT COOLER WALLS: CAULK BY GENERAL CONTRACTOR, COLOR -TBD
g. TILE AT CEILING GRID: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
h. VANITY TOPS & WAITRESS STATION: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR.
i. PAPER TOWEL DISPENSER: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR.
j. HOLLOW METAL DOORS: CAULK BY GENERAL CONTRACTOR, COLOR- CLEAR
k. HOOD WALLS: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
l. PASS THRU: CAULK BY GENERAL CONTRACTOR, COLOR- TBD
m. EXTERIOR SEALANTS: SEALANT BY GENERAL CONTRACTOR, COLOR - TBD

0790 -CAULKING & SEALANTS cont.

B. MATERIALS
1.1. GENERAL INTERIOR CAULK: ONE PART ACRYLIC LATEX CAULK. 90% SOLIDS MINIMUM. USE AS RECOMMENDED BY MANUFACTURER (AS GENERAL PURPOSE INTERIOR SEALANT). ACCEPTABLE MANUFACTURER: DOW CORNING.
1.2. JOINT BACKING: COMPRESSIBLE ROD OF MATERIAL AS RECOMMENDED BY SEALANT MANUFACTURER FOR JOINT TYPES AND WIDTHS INDICATED ON CONSTRUCTION DRAWINGS.
1.3. JOINT CLEANER, SEALERS, AND PRIMER SHALL BE USED AS RECOMMENDED BY MANUFACTURER.

C. INSTALLATION

1.1. JOINT BACKING MATERIAL SHALL BE A WIDTH GREATER THAN THE JOINT, AS RECOMMENDED BY THE MANUFACTURER, TO GUARANTEE A TIGHT FIT WHEN FORCED INTO PLACE.
1.2 APPLY MATERIALS IN STRICT ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS: OBSERVE MANUFACTURER'S REQUIREMENTS REGARDING TEMPERATURE CONTROL, USABILITY OF MATERIALS, AND PROTECTION OF ADJACENT SURFACES.
1.1. MAKING SEALING SURFACE SLIGHTLY CONCAVE FREE OF WRINKLES AND SKIPS: UNIFORMLY SMOOTH AND WITH PERFECT ADHESION ALONG BOTH SIDES OF JOINT. PROTECT ADJACENT SURFACES FROM EXCESS MATERIALS LEAVE JOINTS IN A CLEAN NEAT CONDITION. DEFECTIVE JOINTS SHALL BE REMOVED, CLEANED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.SET THRESHOLDS IN FULL BED OF CAULKING AND ANCHOR WITH EXPANSION ANCHORS.

0810 HOLLOW METAL DOORS & FRAMES

A. DESCRIPTION
1.1. REFER TO DOOR SCHEDULE FOR LOCATIONS AND TYPES OF DOORS REQUIRED.
B. PRODUCTS
1.1. HOLLOW METAL FRAMES- GENERAL
a. COLD ROLLED 18 GAUGE LABELED FRAMES WHERE REQUIRED.
b. FRAMES SHALL RECEIVE TWO COATS OF RUST INHIBITIVE PRIMER. PROVIDE THREE (3) RUBBER BUMPERS AT EACH DOOR.
c. ALL FRAMES TO BE WELDED HOLLOW METAL.
d. APPROVED MANUFACTURERS: STEELCRAFT, CECO, TRUSSBILT, AMWELD, AND FENESTRA
1.2 HOLLOW METAL FRAMES - WELDED (INTERIOR & EXTERIOR)
a. SAW MITER AND CONTINUOUSLY WELD CORNER JOINTS FOR FULL JAMB DEPTH AND WIDTH OF FRAME AND TRIM. CONTACT EDGES SHALL BE CLOSED TIGHT WELDS ON EXPOSED SURFACES DRESSED SMOOTH AND FLUSH. PRIME COAT PAINT.
b. PROVIDE CHAMBER AT HINGE CUTOUTS TO ALLOW ATTACHMENT OF HINGES AFTER FRAME IS FILLED WITH GROUT.
1.3 HOLLOW METAL DOORS
a. DOORS SHALL BE FLUSH DESIGN, OF SIZE INDICATED ON DOOR SCHEDULE
b. CORE SHALL CONSIST OF STRUCTURAL HONEYCOMB OR SOLID POLYSTYRENE CORE BANDED TO BOTH FACES.
c. APPROVED MANUFACTURERS: STEELCRAFT, CECO, TRUSSBILT, AMWELD, AND FENESTRA
C. INSTALLATION
1.1. FRAMES, WHICH ARE SCHEDULED FOR LABEL CONSTRUCTION, SHALL BE INSTALLED USING UL-APPROVED ANCHORING. FRAMES SHALL BE PROPERLY PREPARED TO RECEIVE UL-APPROVED HARDWARE AND SHALL HAVE PROPER LABEL ATTACHED AT THE FACTORY.
1.2. ALL FRAMES SHALL BE COMPLETED WITH JAMB ANCHORS FOR ATTACHING TO MASONRY WALLS, OR OTHER ANCHORS, AS REQUIRED BY THE PARTICULAR INSTALLATION.
1.3. AT THE TIME OF INSTALLATION, THE DOOR JAMBS SHOULD BE HELD ½ " OFF THE EXISTING CONCRETE FLOOR, BEFORE FLOOR TILE IS INSTALLED.
1.4. INSTALL ALL HOLLOW METAL DOORS AND FRAMES ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
1.5. FILL ALL WELDED FRAMES WITH MORTAR.

0815 ALUMINUM WINDOW SYSTEMS

A. DESCRIPTION
1.1. FURNISH AND INSTALL ALL GLAZING, GLASS AND DOOR FRAMES, BARRIER BARS, AND EXTERIOR WINDOW WALL SYSTEM, INCLUDING ALL HARDWARE, ACCESSORIES, AND CAULKING, REQUIRED FOR A COMPLETE WATERTIGHT INSTALLATION AS DETAILED ON THE DRAWINGS AND HEREINAFTER SPECIFIED.
B. PRODUCTS
1.1. ALUMINUM COMPONENTS: 22,000 PSI PER ULTIMATE TENSILE STRENGTH ALLOY, NOT LESS THAN 0.125 " WALL THICKNESS. 1-3/4 " X 4.5" FRAME SIZE.
1.2. FASTENING: ALUMINUM, STAINLESS STEEL OR CADMIUM PLATED CARBON STEEL.
1.3. WEATHERSTOP DOOR OPENINGS WITH BLACK PLOY-PILE WEATHER-STRIPPING.
1.4. GLASS STOPS: WITHOUT VISIBLE FASTENINGS SNAP-IN TYPE BLACK, FOR PUTTY LESS GLAZING.
1.5. HARDWARE: REFER TO DOCUMENTS
1.6. FINISH: REFER TO DOCUMENTS
1.7. DOORS TO BE MEDIUM STILE TO MEET APPLICABLE AAMA REQUIREMENTS CONCERNING SILLS AND STRENGTHS.
1.8. CAULKING COLOR TO MATCH FRAME.
1.9. MANUFACTURERS:
a. DOORS AND FRAMES: KAWNEER OR VISTAWALL.
C. INSTALLATION
1.1. FABRICATE AND INSTALL EXTERIOR UNITS TO WITHSTAND WIND PRESSURE LOAD OF 26 POUNDS PER SQUARE FOOT OVER ENTIRE FRAME, AND PANEL AREA, ACTING INWARD AND OUTWARD.

0850 - PASS-THRU WINDOW

MANUAL OPERATED, SELF-CLOSING, BI-PARTING PASS-THRU WINDOW IN ANODIZED ALUMINUM FRAME. PRE-GLAZED WINDOW, SEE EXTERIOR ELEVATION AND DOOR AND WINDOW SCHEDULE FOR ADDITION INFORMATION. UNIT AS MANUFACTURED BY:

QUICKSERV CORP
P.O. BOX 40466
HOUSTON, TX 77240
CONTACT: WADE ARNOLD

0870 FINISH HARDWARE

A. DESCRIPTION
1.1. INSTALL ALL FINISH HARDWARE ON DOORS INDICATED ON DOOR SCHEDULE.
1.2. COORDINATION: HARDWARE TEMPLATES AND SCHEDULES SHALL BE SENT TO HOLLOW METAL MILLWORK WOOD DOOR SUPPLIER TO COORDINATE THE NECESSARY PREPARATION.
B. PRODUCTS
1.1. ALL HARDWARE TO MEET REQUIREMENTS LISTED IN THE DOOR SCHEDULE UNLESS OTHERWISE NOTED.
1.2. ALL ALUMINUM ENTRANCE SYSTEM HARDWARE ROLLING GRILLES & OVERHEAD FIRE DOORS & SHUTTER HARDWARE IS BY MANUFACTURER.
C. INSTALLATION
1.1. MOUNT ALL HARDWARE UNITS AT HEIGHTS RECOMMENDED IN "RECOMMEND LOCATIONS FOR BUILDERS HARDWARE" BY NBHA, EXCEPT AS OTHERWISE SPECIFICALLY INDICATED OR REQUIRED TO COMPLY WITH GOVERNING HANDICAPPED REGULATIONS. THESE SHALL BE AS FOLLOWS:
a. LOCK SETS AND LATCH SETS- 40"
b. EXIT DEVICE CROSSBAR- 37"
c. CENTER OF DOOR PULL- 42"
d. CENTER OF PUSH PLATE- 48"
e. DEADLOCK- 60"
1.2 INSTALL HARDWARE ITEMS COMPLYING WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. REMOVE HARDWARE FROM SURFACES TO BE FINISHED AFTER INSTALLATION AND STORE UNTIL SURFACE FINISH IS APPLIED; THEN REINSTALL.
1.3 ADJUST EACH OPERATING ITEM OF HARDWARE TO INSURE PROPER OPERATION OF FUNCTION OF UNIT.
1.4 LUBRICATE MOVING PARTS AS RECOMMENDED BY MANUFACTURER.
1.5 INSTALL ALL WEATHER-STRIPPING IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATIONS. FIT WEATHER-STRIPPING TIGHTLY AT CORNERS TO MAINTAIN CONTINUITY AROUND PERIPHERY OF DOOR.
1.6 CLEAN HARDWARE AS RECOMMENDED BY MANUFACTURER.

0880 GLASS & GLAZING

A. DESCRIPTION
1.1. FURNISH AND INSTALL ALL GLASS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
B. MATERIALS
1.1. GLAZING COMPOUND:
a. (TT-P-781), TYPE 1 OR TYPE 2 MINIMUM AND ACCESSORIES SUCH AS POINTS, SETTING BLOCKS, SHIMS, STOP BEADS, ANGLES, WIRING SPRING CLIPS SHALL BE THE TYPE RECOMMENDED BY THE GLASS MANUFACTURER.
C. TYPES:
1.1. 5/8 " TEMPERED INSULATING GLASS IN EXTERIOR ALUMINUM DOORS.
1.2. 1" TEMPERED INSULATING GLASS @ EXTERIOR LOCATIONS.
1.3. 1/4" TEMPERED GLASS @ INTERIOR LOCATIONS.
1.4. PROVIDE 35% DUAL REFLECTIVE WINDOW FILM ON 2ND SURFACE (INSIDE).
D. INSTALLATION
1.1. PERFORM ALL GLAZING WORK IN ACCORDANCE WITH THE MINIMUM STANDARDS OF THE FLAT GLASS JOBBERS ASSOCIATION (FGJA) GLAZING MANUAL.
1.2. ALL GLASS FACTORY LABELED ON EACH PANE. DIMENSIONS SHOWN ON DRAWINGS ARE GIVEN ONLY AS A GUIDE FOR ESTIMATING PURPOSES, AND ACTUAL SIZE SHALL BE DETERMINED BY MEASUREMENT OF THE ACTUAL OPENINGS. GLASS SHALL BE ACCURATELY CUT TO FIT THESE OPENINGS.
1.3. INSPECT WINDOWS AND OTHER FRAMES TO DETERMINE THAT THE FRAMES, SASH AND STOPS ARE SET TRUE AND STRAIGHT. SASH RABBETS AND STOPS SHALL BE CLEAN AND DRY AT THE TIME OF GLAZING. BEFORE GLAZING METAL SASH REMOVE ANY OIL, LACQUER, OR OTHER MATERIAL TO WHICH THE COMPOUND WILL NOT READILY ADHERE OR WHICH WILL TEND TO DELAMINATE FROM THE METAL AND CAUSE A LEAK THROUGH THE GLAZING SEAL.

0925 GYPSUM DRYWALL

A. DESCRIPTION
1.1. PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE INSTALLATION OF THE GYPSUM WALLBOARD AND METAL STUD FRAMING SYSTEM INDICATED.
1.2. COMPLY WITH ALL APPLICABLE REQUIREMENTS OF "AMERICAN STANDARDS SPECIFICATION FOR THE APPLICATION AND FINISHING OF GYPSUM WALLBOARD" BY THE AMERICAN STANDARDS ASSOCIATION, EXCEPT WHERE MORE STRINGENT REQUIREMENTS ARE CALLED FOR HEREIN, IN LOCAL CODES, OR BY MANUFACTURER OF WALLBOARD.
1.3. MAINTAIN TEMPERATURE OF DRYWALL SPACE IN RANGE OF 55 DEGREES TO 90 DEGREES F. UNTIL BUILDING IS ENTIRELY CLOSED AND VENTILATED, AS REQUIRED TO ELIMINATE EXCESSIVE MOISTURE BUILD UP IN THE BUILDING.

0925 GYPSUM DRYWALL (cont.)

B. PRODUCTS
1.1. METAL FRAMING SYSTEM
a. RUNNER: MINIMUM 20 GAUGE EXTERIOR WALL GALVANIZED STEEL WITH LEGS NOT LESS THAN ONE INCH HIGH, SLIGHTLY BENT IN TO HOLD THE STUDS BY FRICTION.
b. STUDS: 20 GAUGE 6", 3-5/8", 2-1/2", AND 1-1/2" PUNCHED, SCREW-TYPE, MINIMUM ASTM C645. HOT DIPPED STEEL OR ELECTRO-GALVANIZED STEEL, WITH FLANGES NOT LESS THAN 1-1/4" SIDE. STUD DEPTH SHALL BE AS REQUIRED FOR WALL-FINISHED THICKNESS ON DRAWINGS.
c. FURRING CHANNELS: ASTM C 645, 22 GAUGE, HAT SHAPED.
d. MANUFACTURERS: CELOTEX,FLINTKOTE, JOHNS-MANVILLE, KAISER, NATIONAL GYPSUM, US GYPSUM, WHELLING CORRUGATING CO.
2.1. GYPSUM WALLBOARD
a. GYPSUM WALLBOARD: USE 5/8" TYPE X THROUGHOUT, UNLESS OTHERWISE INDICATED.
b. MOISTURE RESISTANT WALLBOARD: USE 5/8" ON ALL WET WALLS IN RESTROOMS, UTILITY, AND KITCHEN.
c. HARDWARE AND ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION TO BE PROVIDED BY THE CONTRACTOR INCLUDING THE FOLLOWING:
d. CORNER BEAD, "L" TYPE METAL TRIM AT EXPOSED DRYWALL EDGES AND WHERE DRYWALL ABUTS DISSIMILAR CONSTRUCTION.
e. RESILIENT CHANNELS AND FURRING CHANNELS AS REQUIRED.
f. JOINT FINISHING MATERIALS TO BE MANUFACTURER'S BEST-RECOMMENDED MATERIALS FOR A THREE COMPOUND TREATMENT.
g. APPROVED DRYWALL MANUFACTURERS: CELOTEX, FLINTKOTE, GEORGIA-PACIFIC, JOHNS-MANVILLE, KAISER GYPSUM, NATIONAL GYPSUM, US GYPSUM.
C. INSTALLATION
1.1. FRAMING: ANCHORAGE RUNNER SHALL BE ALIGNED ACCURATELY AT FLOOR AND CEILING AND SECURELY ANCHORED APPROXIMATELY TWO (2) INCHES FROM THE RUNNER ENDS. FLOOR RUNNER AND CEILING RUNNER SHALL BE SECURED MAXIMUM 24" O.C.
1.2 TAPING & FINISHING
a. MIX JOINT AND FINISHING COMPOUND PER MANUFACTURER'S DIRECTIONS.
b. CENTER TAPE OVER JOINT AND EMBED IN UNIFORM LAYER OF JOINT COMPOUND OF SUFFICIENT WIDTH AND DEPTH TO PROVIDE FIRM AND COMPLETE BOND. APPLY SKIN COAT OVER EMBEDDED TAPE.
c. TREAT ANGLES WITH REINFORCING TAPE FOLDED TO CONFORM TO ADJACENT SURFACES AND STRAIGHT TRUE ANGLES.
d. ALLOW COMPOUND TO THOROUGHLY DRY FOR AT LEAST 24 HOURS.
e. OVER JOINT COMPOUND AND TAPE, APPLY COAT OF FINISHING COMPOUND. SPREAD EVENLY AND FEATHER OUT BEYOND EDGE OF BOARD. AFTER FIRST FINISHING COAT IS THOROUGHLY DRY (AT LEAST 24 HOURS), COVER WITH SECOND COAT, WITH EDGES FEATHERED OUT SLIGHTLY BEYOND PRECEDING COAT.
f. GIVE ALL DIMPLES AT FASTENER HEADS, AND ALL MARRED SPOTS ON SURFACE OF BOARD, ONE COAT JOINT COMPOUND AND TWO COATS FINISHING COMPOUND APPLIED, AS EACH COAT IS APPLIED TO JOINTS.
g. INSTALL METAL CORNER REINFORCEMENT AT ALL EXTERNAL CORNERS, EXCEPT ENDS OF HOOD WALL. CONCEAL FLANGES OR METAL REINFORCEMENT WITH AT LEAST TWO COATS OF COMPOUND. WHEN COMPLETED COMPOUND SHALL EXTEND APPROXIMATELY 8 INCHES TO 10 INCHES ON EACH SIDE OF METAL NOSING.
h. AFTER EACH APPLICATION OF JOINT OR FINISHING COMPOUND HAS DRIED, LIGHTLY SAND ALL JOINTS. LEAVE ALL BOARD AND TREATED AREAS UNIFORMLY SMOOTH AND READY FOR TEXTURING. DO NOT ROUGH PAPER.

0950 ACOUSTICAL TREATMENT

A. GENERAL: PROVIDE ACOUSTICAL CEILINGS INCLUDING SUSPENSION SYSTEM, TRIM AND ACCESSORIES AS REQUIRED FOR COMPLETE FINISHED INSTALLATION.
B. STANDARDS: CONFORM TO ASTM C635 FOR METAL SUSPENSION SYSTEM AND ASTM C636 FOR INSTALLATION OF ACOUSTICAL CEILINGS.
C. PERFORMANCE REQUIREMENTS: PROVIDE PRODUCTS LISTED BY UNDERWRITERS LABORATORIES (UL)
1. FLAME SPREAD/ MODE DENSITY: PROVIDE PRODUCTS MEETING CODE REQUIREMENTS FOR MAXIMUM 25 FLAME SPREAD AND SMOKE DEVELOPED INDEX 50 OR LESS.
D. SEISMIC REQUIREMENTS: COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS FOR SEISMIC BRACING OF CEILING SUSPENSION SYSTEM, AND WITH ASTM E580.
E. SUBMITTALS: SUBMIT PRODUCT DATA, SHOP DRAWINGS INDICATION LAYOUT, AND SAMPLES OF GRID, TRIM AND CEILING UNITS.
F. INSTALLER: FIRM WITH MINIMUM THREE YEARS SUCCESSFUL EXPERIENCE IN PROJECTS OF SIMILAR TYPE AND SCOPE: ACCEPTANCE TO MANUFACTURER OF ACOUSTICAL UNITS.

0950 ACOUSTICAL TREATMENT cont.

G. PROJECT CONDITION: DO NOT INSTALL CEILING UNTIL BUILDING IS ENCLOSED, SUFFICIENT HEAT IS PROVIDED, DUST GENERATING ACTIVITIES HAVE TERMINATED AND OVERHEAD MECHANICAL WORK IS COMPLETED, TESTED AND APPROVED: ALLOW WET WORK TO DRY PRIOR TO INSTALLATION.
H. ACOUSTICAL UNITS: TYPES AND MANUFACTURERS AS INDICTED ON DRAWINGS.
I. SUSPENSION SYSTEM: AS INDICTED ON DRAWINGS.
J. PREPARATION: MEASURE CEILING AREA AND ESTABLISH LAYOUT OF ACOUSTICAL UNITS TO BALANCE PROPER WIDTHS AT OPPOSITE EDGES OF EACH CEILING: DO NOT USE LESS THAN HALF WIDTH UNITS AT BORDERS.
1. COORDINATE WITH OTHER WORK SUPPORTED BY OR PENETRATING THROUGH CEILINGS, INCLUDING LIGHT FIXTURES, HVAC EQUIPMENT AND PARTITIONS SYSTEMS.
K. INSTALLATION: COMPLY WITH MANUFACTURER RECOMMENDATIONS, ASTM C636, AND APPLICABLE REQUIREMENTS FOR FIRE RATINGS.
1. FINISHED CEILINGS: TRUE TO LINES AND LEVELS AND FREE FROM WARPED, SOILED OR DAMAGED GRID OR ACOUSTICAL UNITS.
2. INSTALL CEILING SYSTEMS IN A MANNER CAPABLE OF SUPPORTING SUPERIMPOSED LOADS, WITH MAXIMIM PERMISSIBLE DEFLECTION OF 1/8" IN 10'-0".
3. ENSURE SUSPENSION SYSTEM IS LOCATED TO ACCOMMODATE FITTINGS AND UNITS OF EQUIPMENT WHICH IS TO BE PLACED AFTER INSTALLATION OF CEILING GRID.
4. WHERE DUCTS OR OTHER EQUIPMENT PREVENT REGULAR SPACING OF HANGERS, REINFORCE NEAREST ADJACENT HANGERS AND RELATED CARRYING CHANNELS AS REQUIRED TO SPAN REQUIRED DISTANCE.
5. INSTALL EDGE MOLDINGS AT INTERSECTION OF CELING AND VERTICAL SURFACES, USING MAXIMUM LENGTHS, STRAIGHT, TRUE TO LINE AND LEVEL: MITER CORNERS.
6. FIT ACOUSTICAL UNITS IN PLACE, FREE FROM DAMAGED EDGES OR DEFLCTS DETRIMENTAL TO APPEARANCE AND FUNCTION. LAY DIRECTIONALLY PATTERNED UNITS ONE WAY WITH PATTERN AS DIRECTED. FIT BORDER UNITS NEATLY AGAINST ABUTTING SURFACES.
7. INSTALL UNITS LEVEL, IN UNIFORM PLANE AND FREE FROM TWIST, WARP AND DENTS.
8. INSTALL HOLD-DOWN CLIPS WHERE REQUIRED BY APPLICABLE CODES AND WHERE CEILING IS WITHIN 20'-0" OF AND EXTERIOR DOOR.
L. ADJUSTMENT: ADJUST SAGS OR TWISTS WHICH DEVELOP IN CEILING SYSTEM AND CEILING IS WITHIN 20'-0" OR AN EXTERIOR DOOR.

0990 PAINTING

A. DESCRIPTION
1.1. THE CONTRACTOR SHALL DO ALL INTERIOR AND EXTERIOR PAINTING INDICATED ON THE DRAWINGS, INCLUDING WOOD, MASONRY, GYPSUM BOARD FERROUS METALS, PRIME COATED METAL SURFACES, REGISTERS, AND GRILLES.
1.2. EXAMINE ALL SUBSURFACES TO RECEIVE WORK AND REPORT TO THE GENERAL CONTRACTOR WITH A COPY TO THE TENANT, ALL CONDITIONS DETRIMENTAL TO WORK. COMMENCEMENT OF WORK WILL BE CONSTRUED AS ACCEPTANCE OF ALL SUBSURFACES.
1.3. DELIVER MATERIALS AND EQUIPMENT IN ONE PLACE WHERE DIRECTED BY THE GENERAL CONTRACTOR'S FOREMAN. PROTECT FLOORS AND WALLS OF STORAGE ROOM. REMOVE OILY RAGS, WASTE ETC. FROM BUILDING EVERY NIGHT AND UNDER NO CIRCUMSTANCES ALLOW THEM TO ACCUMULATE.
B. PRODUCTS
1.1. ALL MATERIALS SHALL BE OF THE BEST GRADE; REFER TO FINISHES.
C. INSTALLATION
1.1. THE CONTRACTOR SHALL EXAMINE ALL SURFACES TO BE FINISHED AND MAKE CERTAIN THAT THINGS CAN BE PUT IN PROPER CONDITION FOR FINISHING BY CUSTOMARY CLEANING, SANDING OR PUTTYING. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR PRODUCING A SATISFACTORY JOB WITH THE MATERIALS SPECIFIED.
1.2. WORKMANSHIP SHALL BE OF THE VERY BEST; ALL MATERIALS EVENLY SPREAD AND SMOOTHLY FLOWED ON, GIVING A UNIFORM SHEEN AND COLOR WITHOUT RUNS AND SAGS. TRANSPARENT FINISHES SHALL HAVE ALL COATS BRUSHED OUT SMOOTH. SPRAYING IS ACCEPTABLE FOR PRIME COATS ONLY. ONLY SKILLED PAINTERS SHALL BE EMPLOYED AND ALL MATERIALS SHALL BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. EXCEPT AS OTHERWISE SPECIFIED, ONLY ONE MANUFACTURER'S MATERIALS SHALL BE USED IN EACH OF THE FINISHES SPECIFIED.
1.3. ALL SURFACES TO BE PAINTED OR ENAMELED SHALL BE CLEANED FREE OF LOOSE DIRT AND DUST BEFORE PAINTING IS STARTED. ALL KNOTS, PITCH STREAKS, AND SAPPY SPOTS SHALL FIRST BE TOUCHED UP WITH SHELLAC WHERE FINISH CALLS FOR PAINT OR ENAMEL.

0990 PAINTING (cont.)

1.4. ALL NECESSARY PUTTYING OF NAIL HOLES, CRACKS ETC SHALL BE DONE AFTER THE FIRST COAT, WITH PUTTY OF A COLOR TO MATCH THAT OF THE FINISH.
1.5 ALL UNDERCOATS OF PAINT AND ENAMEL SHALL BE TINTED TO THE APPROXIMATE SHADE OF THE FINAL COAT. ALL SUCTION SPOTS OR HOT SPOTS IN CEMENT, AFTER THE APPLICATION OF THE FIRST COAT, SHALL BE TOUCHED UP BEFORE APPLYING THE SECOND COAT. CONTRACTOR SHALL SECURE COLOR SCHEDULE FOR ROOMS BEFORE PRIMING WALLS.
1.6 TOPS AND BOTTOMS OF ALL DOORS SHALL BE FINISHED SAME AS BALANCE OF DOOR.
1.7 ALL PAINTING SHALL BE DONE TO CONFORM TO LOCAL HEALTH DEPARTMENT REGULATIONS.

0998 FIBERGLASS REINFORCED PLASTIC PANELS (FRP)

A. DESCRIPTION
1.1. SUBMITTALS
a. SAMPLES: TWO 8" X 10" SAMPLES OF EACH PANEL, ONE 10" PIECE OF EACH TYPE OF TRIM AND MOLDING. SAMPLE FASTENERS.
b. DETAILED INSTALLATION GUIDE FORM #855.
B. PRODUCTS
1.1. FRP PANELS: GLASBORD- P AS MANUFACTURED BY KEMLITE INDUSTRIES, INC. OR EQUAL. COLOR- WHITE
1.2. CLEAN WALL SURFACE OF ALL FOREIGN MATERIAL AND PREPARE SURFACE AS REQUIRED BY FRP MANUFACTURER.
C. INSTALLATION
1.1. INSTALL PANELS IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION GUIDE.
1.2. APPLY ADHESIVE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. INSTALL SEAMS PLUMB AND NOT LESS THAN 6" FROM CORNERS. HORIZONTAL SEAMS NOT PERMITTED.
1.3. REMOVE EXCESS ADHESIVE PROMPTLY; REPLACE PANELS, WHICH CANNOT BE COMPLETELY CLEANED.

10280 WASHROOM ACCESSORIES

PART 1 GENERAL

1.1. SECTION INCLUDES
A. WASHROOM ACCESSORIES AS SCHEDULED IN THIS SECTION AND AS INDICATED ON THE DRAWINGS.
1.2 QUALITY ASSURANCE
A. SINGLE SOURCE REQUIREMENTS: TO THE GREATEST EXTENT POSSIBLE PROVIDE PRODUCTS FROM A SINGLE MANUFACTURER.
B. ACCESSIBILITY REQUIREMENTS: COMPLY WITH REQUIREMENTS APPLICABLE IN THE JURISDICTION OF THE PROJECT INCLUDING BUT NOT LIMITED TO ADA AND ICC/ANSI A117.1 REQUIREMENTS AS APPLICABLE.
1.3 WARRANTY
A. MANUFACTURER'S WARRANTY FOR WASHROOM ACCESSORIES: MANUFACTURER'S STANDARD 1 YEAR WARRANTY FOR MATERIAL AND WORKMANSHIP.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. BASIS OF DESIGN PRODUCTS: BASED ON THE QUALITY AND PERFORMANCE REQUIREMENTS OF THE PROJECT, SPECIFICATIONS ARE BASED SOLELY ON THE PRODUCTS OF BOBRICK WASHROOM EQUIPMENT, INC.. WWW.BOBRICK.COM. LOCATION OF MANUFACTURING SHALL BE THE UNITED STATES.

2.2 TOILET ACCESSORY SCHEDULE

A. SINGLE-USER WASHROOM, STANDARD DUTY:
1. TA-1: B-5806 SERIES CONCEALED MOUNTING GRAB BAR - 1-1/4 INCH DIAMETER.
2. TA-5: B-2111 CLASSIC SERIES WALL-MOUNTED SOAP DISPENSER.

PART 3 EXECUTION

3.1 INSTALLATION
A. INSTALL PRODUCTS IN STRICT COMPLIANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, INCLUDING THE FOLLOWING:
1. VERIFY BLOCKING HAS BEEN INSTALLED PROPERLY.
2. VERIFY LOCATION DOES NOT INTERFERE WITH DOOR SWINGS OR USE OF FIXTURES.
3. COMPLY WITH MANUFACTURER'S RECOMMENDATIONS FOR BACKING AND PROPER SUPPORT.
4. USE FASTENERS AND ANCHORS SUITABLE FOR SUBSTRATE AND PROJECT CONDITIONS.
5. INSTALL UNITS RIGID, STRAIGHT, PLUMB, AND LEVEL, IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND APPROVED SHOP DRAWINGS.
6. CONCEAL EVIDENCE OF DRILLING, CUTTING, AND FITTING TO ROOM FINISH.
7. TEST FOR PROPER OPERATION.

3.2 CLEANING AND PROTECTION
A. CLEAN EXPOSED SURFACES OF COMPARTMENTS, HARDWARE, AND FITTINGS USING METHODS ACCEPTABLE TO THE MANUFACTURER.
B. TOUCH-UP, REPAIR OR REPLACE DAMAGED PRODUCTS UNTIL SUBSTANTIAL COMPLETION.

REGISTRATION SEAL

6408

4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:
ARCHITECTURAL SPECIFICATIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.
G0.6

COMcheck Software Version COMcheckWeb

Envelope Compliance Certificate

Project Information

Energy Code:	90.1 (2016) Standard
Project Title:	250701-2946 Erwin NC
Location:	Erwin, North Carolina
Climate Zone:	3a
Project Type:	New Construction
Vertical Glazing / Wall Area:	6%
Performance Sim. Specs:	EnergyPlus 8.1.0.009 (EPW: USA_NC_Raleigh-Durham.Intl.AP.723060_TMY3.epw)

Construction Site:
503 E. JACKSON BLVD.
ERWIN, North Carolina 28339

Owner/Agent:
MICHAEL R. JACKSON SR.
JF BREW, LLC
111 DENIM DR.
ERWIN, North Carolina 28339
910- 890-4296
MICHAELRJACKSON@GMAIL.COM

Designer/Contractor:
Fred Goglia
1950 Craig Rd. Suite 300
St Louis, Missouri 63146
314.415.2400
scooterscoffee@arcv.com

Building Area	Floor Area
1-Dining: Cafeteria/Fast Food : Nonresidential	668

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Roof: Insulation Entirely Above Deck, 3-Year-Aged Solar Reflectance = 0.68, Thermal Emittance = 0.84, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	608	---	30.0	0.032	0.039
Floor: Unheated Slab-On-Grade, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (d)	111	---	---	0.730	0.730
EAST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	475	20.0	0.0	0.064	0.089
Window: Other Window: Operable, Perf. Specs.: Product ID Product Label, SHGC 0.40, PF 0.56, VT 0.44, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	8	---	---	0.450	0.350
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	475	20.0	0.0	0.064	0.089
Window: Other Window: Fixed, Perf. Specs.: Product ID Product Label, SHGC 0.30, PF 0.48, VT 0.36, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	39	---	---	0.450	0.350
SOUTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	217	20.0	0.0	0.064	0.089
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	24	---	---	0.400	0.370
WEST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	230	20.0	0.0	0.064	0.089
Window: Other Window: Fixed, Perf. Specs.: Product ID Product Label, SHGC 0.30, PF 0.48, VT 0.36, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	36	---	---	0.450	0.350

Assembly | Gross Area or Perimeter | Cavity R-Value | Cont. R-Value | Proposed U-Factor | Budget U-Factor(a)

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) 'Other' components require supporting documentation for proposed U-factors.
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 90.1 (2016) Standard requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Frederick Goglia - Architect
Name - Title

Signature

02/16/26
Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 90.1 (2016) Standard

Requirements: 0.0% 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
4.2.2, 5.4.3.1.1, 5.7 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [FO1][2]	Installed below-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
4.2.4 [FO3][2]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Unheated ☐ Heated	R-____ ☐ Unheated ☐ Heated	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [FO4][2]	Slab edge insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.3.5 [FO5][2]	Slab edge insulation depth/length.	____ ft	____ ft	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.7 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.7.3 [FO7][1]	Insulation in contact with the ground has <=0.3% water absorption rate per ASTM C272.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
6.4.4.1.5 [FO11][2]	Bottom surface of floor structures incorporating radiant heating insulated to >=R-3.5.	R-____	R-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

REGISTRATION SEAL
NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300
PH: (314) 415-2400
ST. LOUIS, MO 63146
FAX (314) 415-2300
www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:
ENERGY COMPLIANCE

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
G0.7

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.4.3.2 [FR1][3]	Factory-built and site-assembled fenestration and doors are labeled or certified as meeting air leakage requirements.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.4.3a [FR8][1]	Vertical fenestration U-Factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.3b [FR9][1]	Skylight fenestration U-Factor.	U-____	U-____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.1 [FR10][1]	Vertical fenestration SHGC value.	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.5.4.4.2 [FR11][1]	Skylight SHGC value.	SHGC:____	SHGC:____	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.2.1, 5.8.2.3, 5.8.2.4, 5.8.2.5 [FR12][2]	Fenestration products rated (U-factor, SHGC, and VT) in accordance with NFRC or energy code defaults are used.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.2.2 [FR13][1]	Fenestration and door products are labeled, or a signed and dated certificate listing the U-factor, SHGC, VT, and air leakage rate has been provided by the manufacturer.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.5.3.6 [FR14][2]	U-factor of opaque doors associated with the building thermal envelope meets requirements.	U-____ ☐ Swinging ☐ Nonswinging	U-____ ☐ Swinging ☐ Nonswinging	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.4.3.1 [FR15][1]	Continuous air barrier is wrapped, sealed, caulked, gasketed, and/or taped in an approved manner, except in semiheated spaces in climate zones 1-6.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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
8.4.2 [EL10][2]	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
8.4.3 [EL11][2]	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
4.2.4 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	R-____ ☐ Above deck ☐ Metal ☐ Attic	R-____ ☐ Above deck ☐ Metal ☐ Attic	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2, 5.8.1.3 [IN3][1]	Roof insulation installed per manufacturer's instructions. Blown or poured loose-fill insulation is installed only where the ceiling slope is <= 3:12.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.4 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Metal ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
4.2.4 [IN8][2]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	R-____ ☐ Mass ☐ Steel ☐ Wood	R-____ ☐ Mass ☐ Steel ☐ Wood	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
5.8.1.1 [IN10][2]	Building envelope insulation is labeled with R-value or insulation certificate has been provided listing R-value and other relevant data.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.9 [IN18][2]	Building envelope insulation extends over the full area of the component at the proposed rated R or U value.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.4 [IN11][2]	Eaves are baffled to deflect air to above the insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.5 [IN12][2]	Insulation is installed in substantial contact with the inside surface separating conditioned space from unconditional space.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.6 [IN13][2]	Recessed equipment installed in building envelope assemblies does not compress the adjacent insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.7.1 [IN15][2]	Attics and mechanical rooms have insulation protected where adjacent to attic or equipment access.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
5.8.1.7.2 [IN16][2]	Foundation vents do not interfere with insulation.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
5.8.1.8 [IN17][3]	Insulation intended to meet the roof insulation requirements cannot be installed on top of a suspended ceiling. Mark this requirement compliant if insulation is installed accordingly.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

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
5.4.3.3 [FI1][1]	Weatherseals installed on all loading dock cargo doors in Climate Zones 4-8.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
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EST. 1998 SCOOTER'S COFFEE

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ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.

G0.8

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Scooter's Coffee

Address: 503 E. Jackson Blvd. Zip Code 28339

Owner/Authorized Agent: Michael Jackson Phone # (910) 890 - 4296 E-Mail michaeltjackson@gmail.com

Owned By: ☐ City/County ☒ Private ☐ State

Code Enforcement Jurisdiction: ☐ City_____ ☒ County Harnett ☐ State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural		Frederick J. Goglia	6408	(800) 489-2233	fgoglia@arcv.com
Civil	ECLS Global, Inc	Jack Hobbs		(___)	
Electrical		Robert L. Queathem	035265	(800) 489-2233	RQueathem@arcv.com
Fire Alarm	N/A			(___)	
Plumbing		Robert L. Queathem	035265	(800) 489-2233	RQueathem@arcv.com
Mechanical		Robert L. Queathem	035265	(800) 489-2233	RQueathem@arcv.com
Sprinkler-Standpipe	N/A			(___)	
Structural	Caruso Turley Scott Inc.	Richard Dahlmann	49268	(480) 774-1700	RDahlmann@CTSAZ.com
Retaining Walls >5' High				(___)	
Other				(___)	

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☒ New Building ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) N/A **CURRENT OCCUPANCY(S)** (Ch. 3): N/A

RENOVATED: (date) N/A **PROPOSED OCCUPANCY(S)** (Ch. 3): 6 People

RISK CATEGORY (Table 1604.5): **Current:** ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☒ II ☐ III ☐ IV

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry

Fire District: ☐ No ☐ Yes **Flood Hazard Area:** ☒ No ☐ Yes

Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

Gross Building Area Table

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3rd Floor	N/A	N/A	N/A
2nd Floor	N/A	N/A	N/A
Mezzanine	N/A	N/A	N/A
1st Floor	N/A	668 SQ FT	668 SQ FT
Basement	N/A	N/A	N/A
TOTAL		668 SQ FT	668 SQ FT

ALLOWABLE AREA

Primary Occupancy Classification(s):

Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☒
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): N/A

Incidental Uses (Table 509): N/A

Special Uses (Chapter 4 – List Code Sections): N/A

Special Provisions: (Chapter 5 – List Code Sections): N/A

Mixed Occupancy: ☒ No ☐ Yes Separation: ____ Hr. Exception: _____

☐ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

☐ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	Ground Level	668 SQ FT	9000 SQ FT	I f=245	9000 SQ FT

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
b. Total Building Perimeter = _____ (P)
c. Ratio (F/P) = _____ (F/P)
d. W = Minimum width of public way = _____ (W)
e. Percent of frontage increase $I_f = 100[F/P - 0.25] \times W/30$ = _____ (%)

[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 stories) (506.2).
[4] The maximum area of open parking garages must comply with Table 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE[1]
Building Height in Feet (Table 504.3)[2]	40	19	
Building Height in Stories (Table 504.4)[3]	2.5	1	

[1] Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
[2] The maximum height of air traffic control towers must comply with Table 412.3.1.
[3] The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/_____* REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30 or greater	Unprotected, Nonsprinklered	No Limit	No Limit

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial _____
Carbon Monoxide Detection: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G0.3

☒ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☒ Exterior wall opening area with respect to distance to assumed property lines (705.8)
☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
☒ Occupant loads for each area
☒ Exit sign locations (1013)
☒ Exit access travel distances (1017)
☒ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☒ Dead end lengths (1020.4)
☒ Clear exit widths for each exit door
☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
☒ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☒ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☒ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☒ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	
	1 per 100sq ft of GFA	7	1		1
TOTAL		7	1		1

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW			1							
	REQ'D			1							

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

N/A

REGISTRATION SEAL
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REGISTERED
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SCOOTER'S COFFEE EST. 1998

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TITLE:
APPENDIX B

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SHEET NO.
G0.9a

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)

Exempt Building: ☒ No ☐ Yes (Provide code or statutory reference): _____

Climate Zone: ☒ 3A ☐ 4A ☐ 5A

Method of Compliance: Energy Code ☐ Performance ☒ Prescriptive
ASHRAE 90.1 ☐ Performance ☒ Prescriptive
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: Insulation Entirely Above Deck
U-Value of total assembly: .032
R-Value of insulation: 30
Skylights in each assembly: N/A
U-Value of skylight: N/A
total square footage of skylights in each assembly: N/A

Exterior Walls (each assembly)
Description of assembly: Wood Frame, 16" O.C.
U-Value of total assembly: .064
R-Value of insulation: 20
Openings (windows or doors with glazing)
U-Value of assembly: .45
Solar heat gain coefficient: .30
projection factor: .48
Door R-Values: N/A

Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of insulation: N/A

Floors slab on grade
Description of assembly: Unheated Slab-On-Grade
U-Value of total assembly: .730
R-Value of insulation: N/A
Horizontal/vertical requirement: N/A
slab heated: N/A

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (I_s) 1.0
Seismic (I_E) 1.0

Live Loads: Roof 20 psf
Mezzanine n/a psf
Floor n/a psf

Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 119 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ☒ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☒ II ☐ III ☐ IV
Spectral Response Acceleration S_s .182 %g S_1 .085 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data
Basic structural system ☒ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☒ No

LATERAL DESIGN CONTROL: Earthquake ☐ Wind ☒

SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) _____ psf
Presumptive Bearing capacity 1500 psf
Pile size, type, and capacity _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: 15 F
summer dry bulb: 92 F

Interior design conditions
winter dry bulb: 68 F
summer dry bulb: 75 F
relative humidity: 50%

Building heating load: 20.9 MBH

Building cooling load: 43.8 MBH/32.8 MBH sensible.

Mechanical Spacing Conditioning System
Unitary
description of unit: Rooftop Unit with gas heat
heating efficiency: 80% AFUE
cooling efficiency: 14.0 SEER
size category of unit: <65,000 BTU
Boiler
Size category. If oversized, state reason.: _____
Chiller
Size category. If oversized, state reason.: _____

List equipment efficiencies: _____

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: Energy Code ☐ Performance ☐ Prescriptive
ASHRAE 90.1 ☐ Performance ☒ Prescriptive

Lighting schedule (each fixture type)
lamp type required in fixture
number of lamps in fixture
ballast type used in the fixture
number of ballasts in fixture
total wattage per fixture
total interior wattage specified vs. allowed (whole building or space by space)
total exterior wattage specified vs. allowed
See comcheck on sheet E1.4

Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
☐ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

REGISTRATION SEAL
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PROFESSIONAL
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300
PH. (314) 415-2400
ST. LOUIS, MO 63146
FAX (314) 415-2300
www.arcvi.com

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REV	DATE	DESCRIPTION	BY
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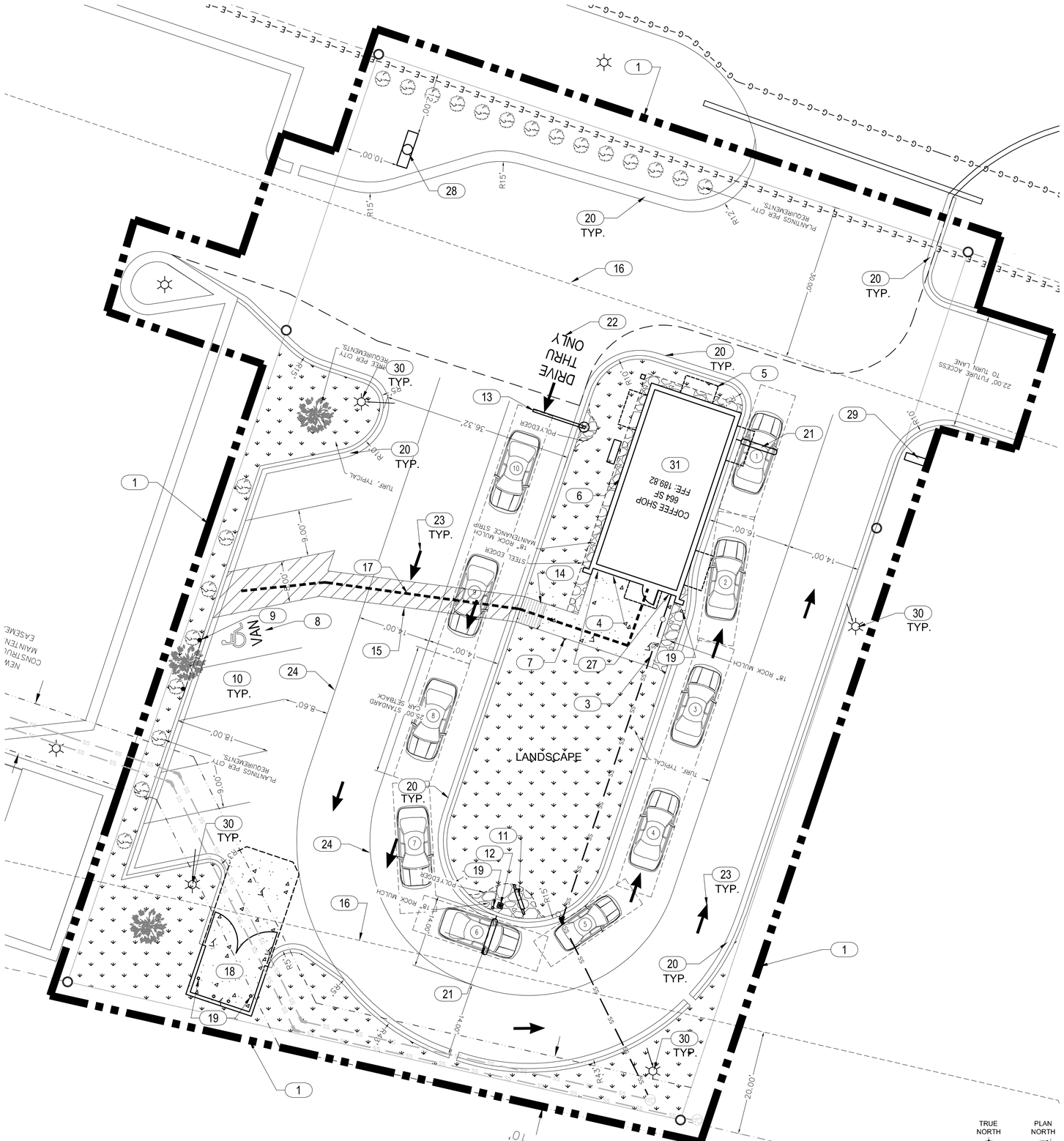
TITLE:
APPENDIX B

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
G0.9b



1 ARCHITECTURAL SITE PLAN

SCALE: 1" = 10'-0"

GENERAL NOTES

A. CONTRACTOR SHALL FIELD VERIFY TYPE OF SOILS. IF CORROSIVE SOILS ARE ENCOUNTERED, TAKE NECESSARY PRECAUTIONS FOR ALL UNDERGROUND WORK

B. NO STRUCTURE OF ANY KIND TO BE CONSTRUCTED ON, OVER OR PLACED WITHIN THE PUBLIC UTILITY EASEMENTS EXCEPT WOOD, WIRE OR REMOVABLE SECTION TYPE FENCING AND/OR PAVING

C. CONTRACTOR TO COORDINATE STAGING AREAS AS REQUIRED

D. ANY DAMAGE BY CONTRACTOR OR SUBCONTRACTOR TO EXISTING ASPHALT PAVEMENT AND/OR EXISTING LANDSCAPING OUTSIDE OF CONSTRUCTION LIMIT LINE SHALL BE REPAIRED BY CONTRACTOR

E. CONTRACTOR SHALL FIELD VERIFY ANY EXISTING SITE CONDITIONS THAT MAY IMPEDE

F. NO MATERIALS SHALL BE STORED ON PUBLIC PROPERTY UNLESS AN ENCROACHMENT PERMIT IS FIRST OBTAINED FROM THE PUBLIC WORKS DEPARTMENT

G. CONTRACTOR SHALL PROVIDE CONSTRUCTION FENCE FOR PEDESTRIAN PROTECTION ACCORDING TO LOCAL REGULATIONS & BUILDING CODE

H. TEMPORARY TOILET FACILITIES SHALL BE PROVIDED

I. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO ENSURE THE SAFETY OF THE OCCUPANTS & WORKERS AT ALL TIMES

J. ALL DEBRIS SHALL BE REMOVED FROM THE PREMISES DAILY & WORK AREAS SHALL BE LEFT IN A CLEAN (BROOM) CONDITION AT ALL TIMES

K. CIVIL DRAWINGS SHALL GOVERN ON CONFLICTS WITH OTHER DISCIPLINE'S DRAWINGS

L. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLETE SECURITY & SAFETY OF THE SITE WHILE THE JOB IS IN PROGRESS & UNTIL THE JOB IS COMPLETE

M. CONTRACTORS SHALL VERIFY ALL DIMENSIONS ON DRAWINGS FOR CONFLICTS PRIOR TO CONSTRUCTION; THE CONTRACTOR WILL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES

N. IF SEASONAL CONDITIONS DO NOT ALLOW FOR SOD, USE HYDRO SEED WITH STRAW MATS OR IMPREGNATED STRAW MATS WITH SEEDS ARE REQUIRED

KEYNOTES (X)

1. PROPERTY LINE.
2. NOT USED.
3. PROPOSED 4" SANITARY SEWER LATERAL; REFER TO CIVIL DRAWINGS.
4. PROPOSED ELECTRICAL SERVICE ENTRANCE; REFER TO ELECTRICAL DRAWINGS.
5. PROPOSED 1" SERVICE WATER LINE (1" METER THEN 1-1/4" FROM THE METER TO THE BUILDING; REFER TO PLUMBING DRAWINGS..
6. PROPOSED LOCATION OF TELEPHONE / CABLE DEMARCATION (4" CONDUIT).
7. CONCRETE SIDEWALK, MINIMUM 5' WIDE.
8. ACCESSIBLE PARKING SPACE WITH 2% MAX RUNNING AND CROSS SLOPE; REFER TO CIVIL DRAWINGS.
9. ACCESSIBLE PARKING SIGN; REFER TO DETAIL 4/A0.3.
10. EMPLOYEE PARKING.
11. MENU BOARD, BY OTHERS.
12. SPEAKER POST, BY OTHERS.
13. HEIGHT CLEARANCE BAR; REFER TO DETAIL 3/A0.3.
14. ACCESSIBLE CURB RAMP WITH 8.3% MAX. RUNNING SLOPE AND 2% MAX. CROSS SLOPE.
15. ACCESSIBLE CROSSWALK WITH 5% MAX. RUNNING SLOPE AND 2% CROSS SLOPE, 4" STRIPES @ 36" MAX. O.C. PAINTED WHITE.
16. BUILDING SETBACK LINE.
17. ACCESSIBLE PATH OF TRAVEL; REFER TO NOTES BELOW.
18. TRASH ENCLOSURE; LOCATE PER CIVIL DRAWINGS, SEE 1/A0.2.
19. BOLLARD, SEE CIVIL DRAWINGS - PAINT POSITIVE RED SHERMAN WILLIAMS SW6871.
20. NEW CONCRETE CURB; REFER TO CIVIL DRAWINGS.
21. LOOP SENSOR FOR MENU BOARD SPEAKER AND DRIVE THRU WINDOW; REFER TO DETAIL 1/A0.3.
22. PAINTED SIGNAGE; REFER TO DETAIL 2/A0.3.
23. PAINTED DIRECTION ARROW; REFER TO DETAIL 6/A0.3.
24. 4" WIDE WHITE REFLECTIVE LANE STRIPING
25. NOT USED.
26. NOT USED.
27. DOWNSPOUTS CONNECT TO STORM DRAIN WHEN AVALABLE, RUN UNDERNEATH TO DAYLIGHT ON ON PAVEMENT (WARM CLIMATES MAY UTILIZE SPLASH BLOCKS TO DIVERT WATER AWAY FROM BUILDING).
28. POLE SIGN, SEE ELECTRICAL DRAWINGS. *COORDINATE FINAL LOCATION WITH OWNER AND SIGN VENDOR. REFER TO SCHEMATIC DETAIL 1/A0.4.
29. DIRECTIONAL SIGN, SEE ELECTRICAL DRAWINGS. *COORDINATE FINAL LOCATION WITH OWNER AND SIGN VENDOR. REFER TO SCHEMATIC DETAIL 2/A0.4.
30. LIGHTPOLE; REFER TO ELECTRICAL DRAWINGS.
31. DRIVE-THRU COFFEE KIOSK; REFER TO SHEET A1.1.

ACCESSIBLE PATH OF TRAVEL

ACCESSIBLE PATH OF TRAVEL; SHALL BE MINIMUM 48" WIDE FROM ARRIVAL POINT TO THE MAIN ENTRANCE

- WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2"
- CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%
- SURFACE IS STABLE, FIRM AND SLIP RESISTANT
- FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM, PROTRUDING OBJECTS SHALL NOT PROJECT 4" FROM WALL WHEN ABOVE 27" AND LESS THAN 80" FROM FINISH GRADE, OR FINISH SURFACE.

REGISTRATION SEAL
NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
9950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH: (314) 415-2400
FAX (314) 415-2300
www.arcvi.com

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REV	DATE	DESCRIPTION	BY
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TITLE:

ARCHITECTURAL SITE PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

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PROJECT NO.
250701

DRAWN BY:
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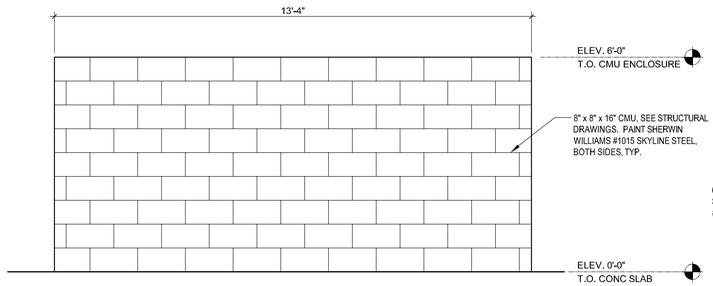
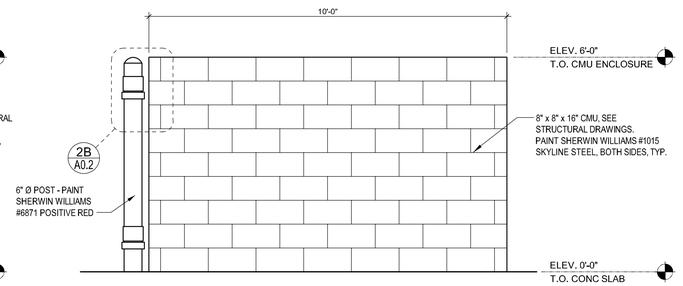
SHEET NO.

A0.1



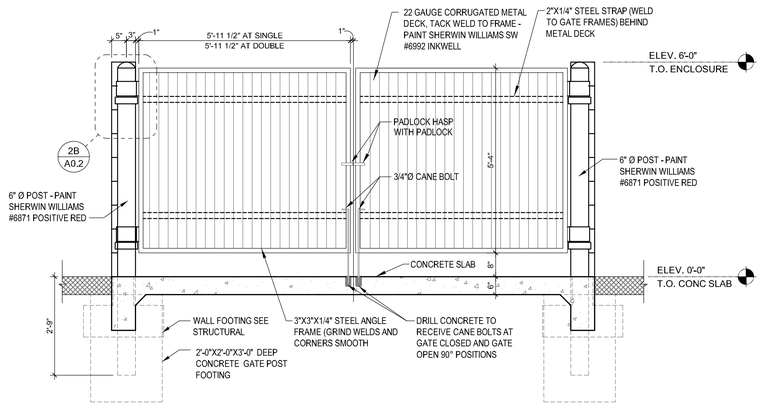
7 TRASH ENCLOSURE - BACK ELEVATION

SCALE: 1/2" = 1'-0"



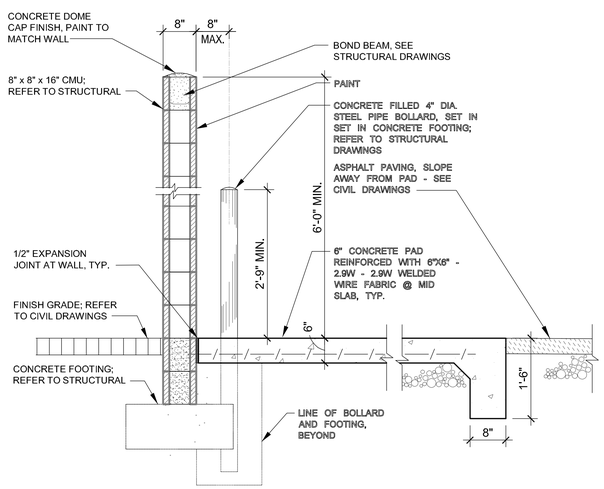
6 TRASH ENCLOSURE - SIDE ELEVATION

SCALE: 1/2" = 1'-0"



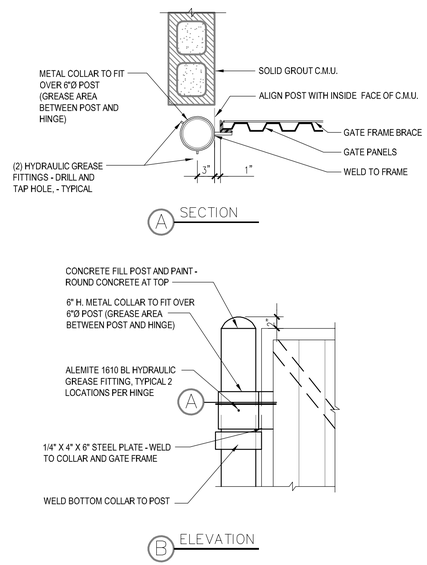
5 TRASH ENCLOSURE - FRONT ELEVATION

SCALE: 1/2" = 1'-0"



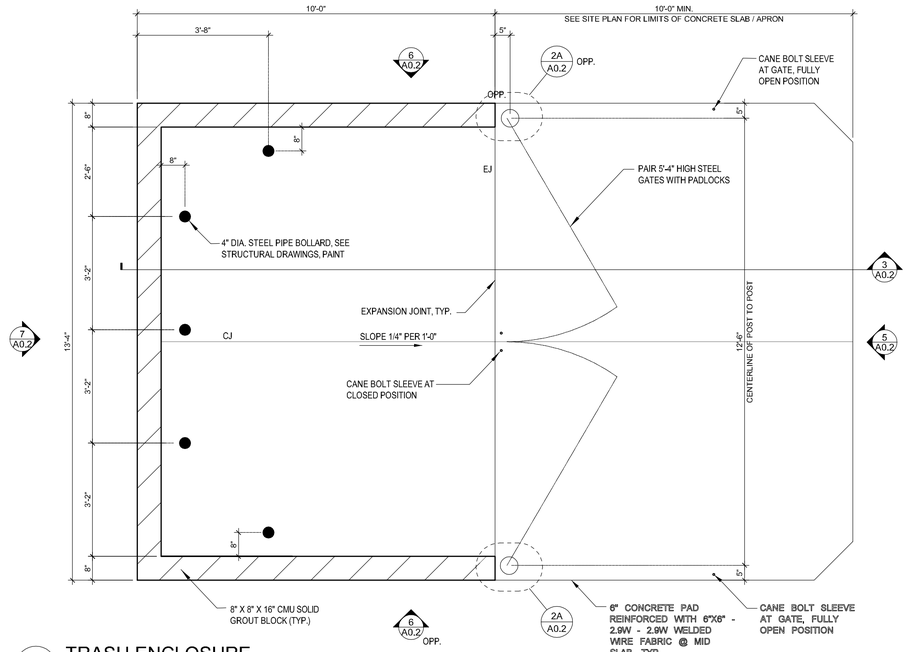
3 SECTION AT TRASH ENCLOSURE

SCALE: 3/4" = 1'-0"



2 HINGE AT TRASH GATE

SCALE: NTS



1 TRASH ENCLOSURE

SCALE: 1/2" = 1'-0"

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NORTH CAROLINA
PROFESSIONAL SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
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TITLE:
TRASH ENCLOSURE ELEVATIONS & DETAILS

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ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
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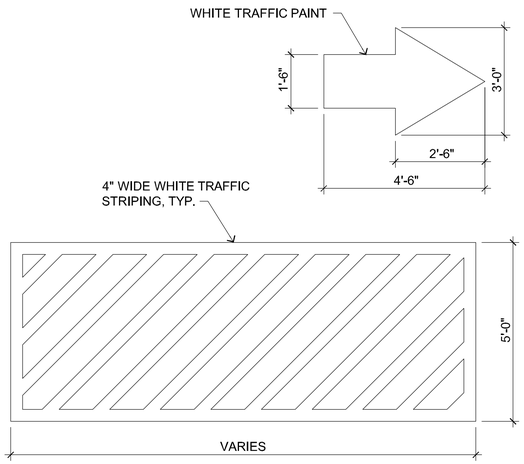
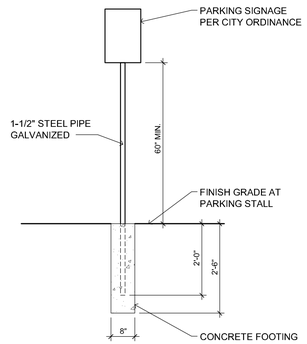


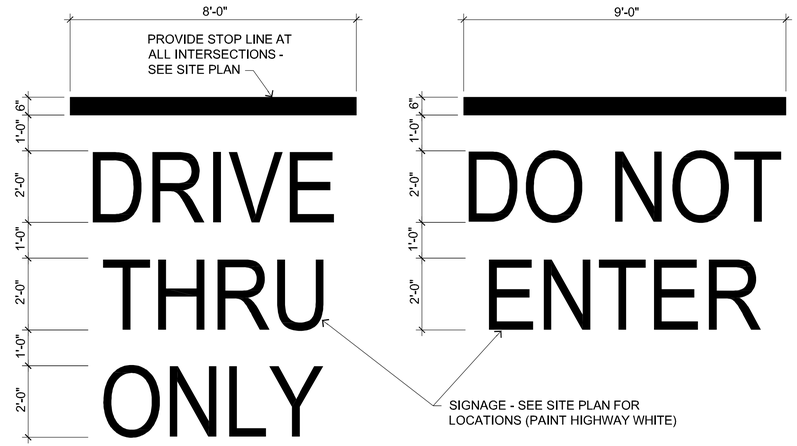
6 PAINTED TRAFFIC SYMBOLS

SCALE: NTS



4 ACESSIBLE PARKING SIGN DETAIL

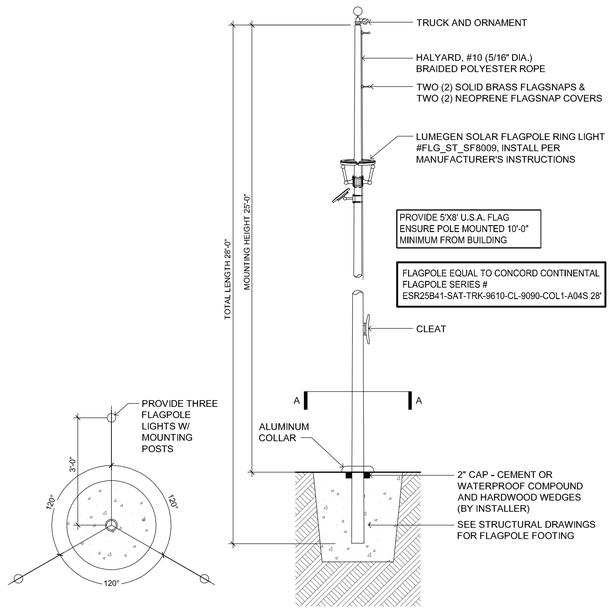
SCALE: 1/2" = 1'-0"



2 PAINTED SIGNAGE AT PAVING

SCALE: 1/2" = 1'-0"

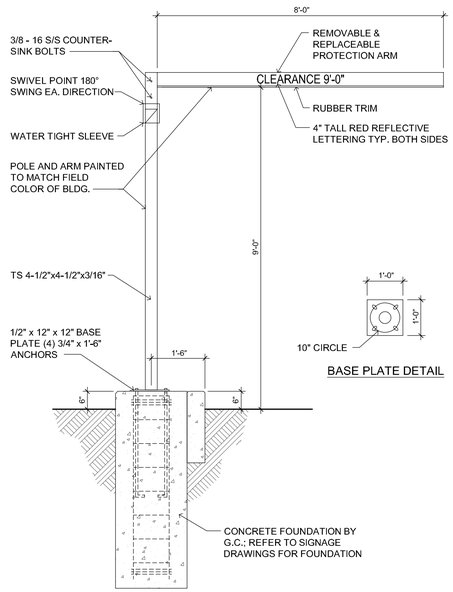
NOTE:
THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.
SIGNAGE IS UNDER A SEPARATE SUBMITTAL AND PERMIT. VERIFY TYPE OF SIGN AND LOCATION WITH OWNER AND SIGNAGE PERMIT DRAWINGS.



5 FLAGPOLE GROUND SET INSTALLATION (OPTIONAL)

SCALE: NTS

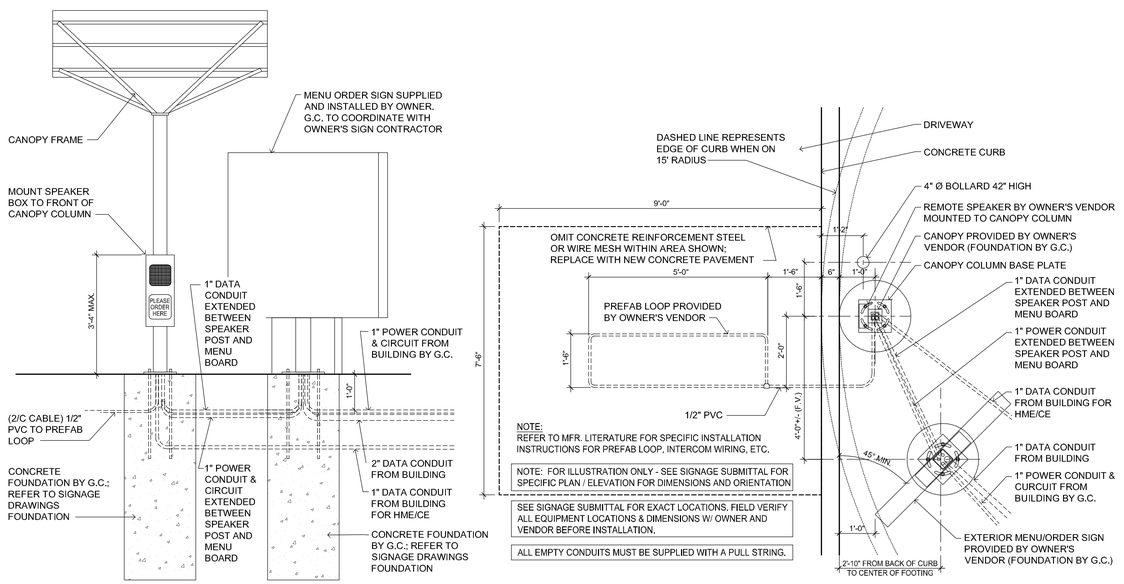
NOTE:
THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.
SIGNAGE IS UNDER A SEPARATE SUBMITTAL AND PERMIT. VERIFY TYPE OF SIGN AND LOCATION WITH OWNER AND SIGNAGE PERMIT DRAWINGS.



3 HEIGHT CLEARANCE SIGN DETAIL

SCALE: NTS

NOTE:
THIS DETAIL IS FOR SCHEMATIC PURPOSES ONLY.
SIGNAGE IS UNDER A SEPARATE SUBMITTAL AND PERMIT. VERIFY TYPE OF SIGN AND LOCATION WITH OWNER AND SIGNAGE PERMIT DRAWINGS.



1 MENU BOARD CALL BOX DETAIL

SCALE: NTS

NOTE:
ADA & PARKING SIGNAGE TO BE PROVIDED & INSTALLED BY G.C.

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NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

SITE DETAILS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

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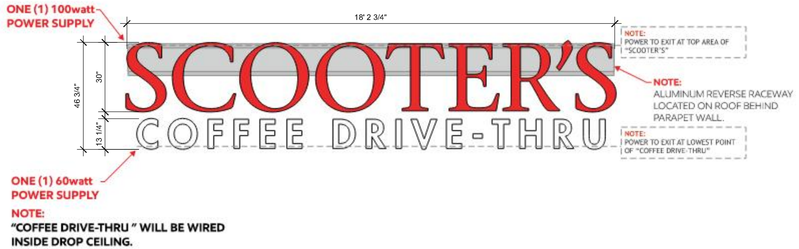
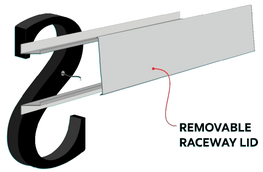
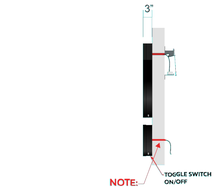
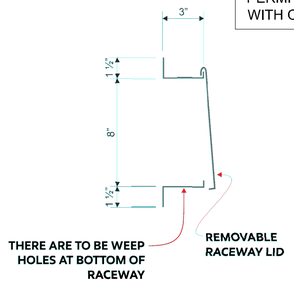




NOTE:
INVERTED RACEWAY TO BE SEALED BY ROOFER AFTER INSTALLATION.

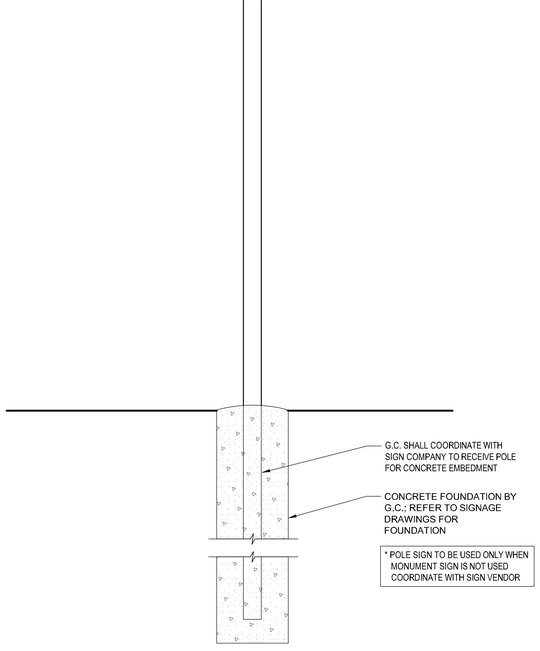




NOTE:
THIS PAGE IS FOR SCHEMATIC PURPOSES ONLY.
SIGNAGE IS UNDER A SEPARATE SUBMITTAL AND PERMIT. VERIFY TYPE OF SIGN AND LOCATION WITH OWNER AND SIGNAGE PERMIT DRAWINGS.

7 INVERTED RACEWAY DETAIL

SCALE: NTS



6 POLE SIGN - ELEVATION

SCALE: 1/2" = 1'-0"

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NORTH CAROLINA
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6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

EST. 1998 SCOOTER'S COFFEE

REV	DATE	DESCRIPTION	BY
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TITLE:
SIGNAGE DETAILS

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503 E. JACKSON BLVD
ERWIN, NC 28339

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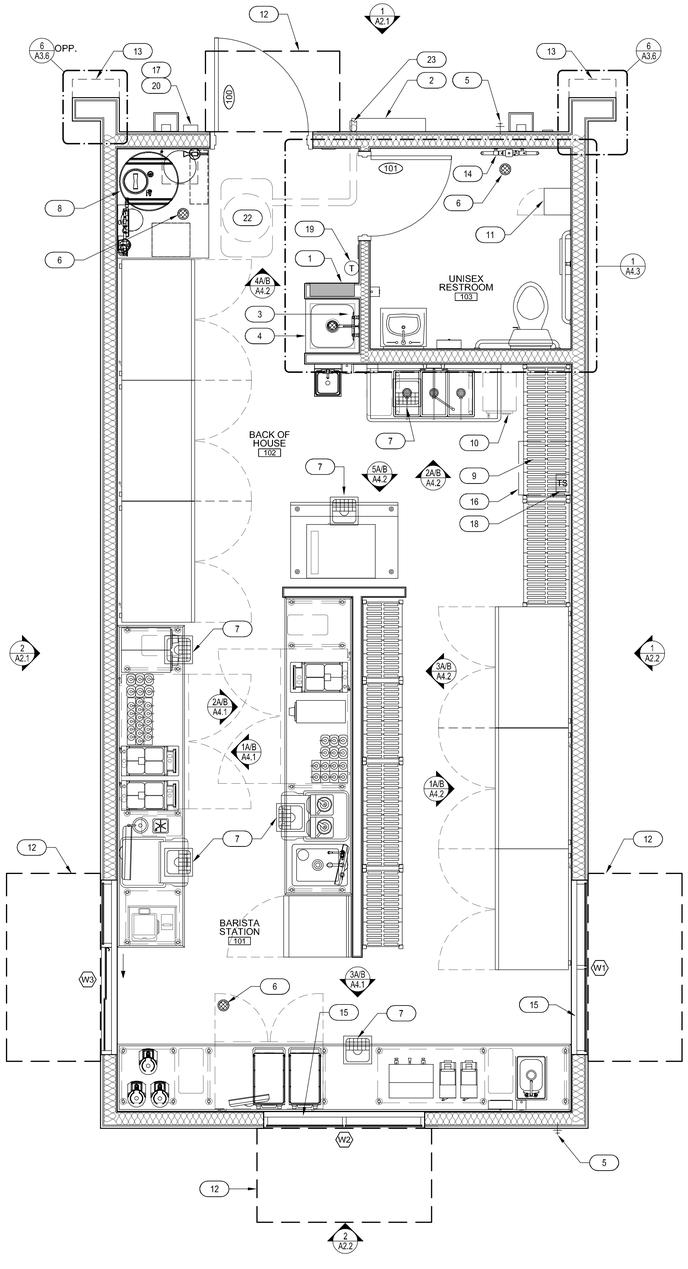
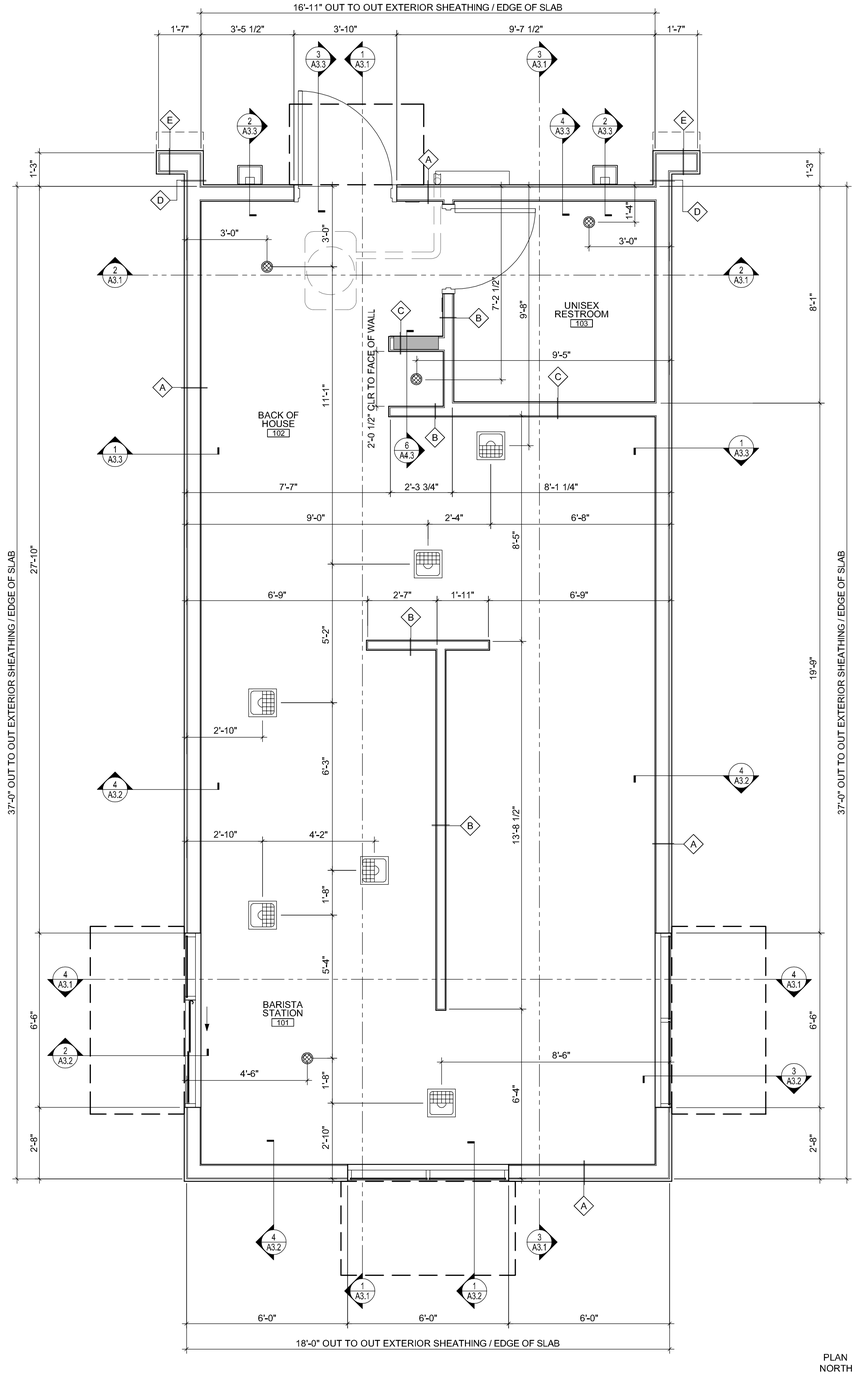


2 FLOOR PLAN

SCALE: 3/8" = 1'-0"

PLAN NORTH



1 DIMENSION PLAN

SCALE: 3/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

A. PROVIDE PAINTED METAL ACCESS PANELS IN WALLS AND CEILINGS AT CONCEALED ITEMS SUCH AS VALVES, SHOCK ABSORBERS, CONTROLS, SWITCHES, ETC, AND ANY ITEMS WHICH MAY REQUIRE ACCESS NOT OTHERWISE PROVIDED.
B. GENERAL CONTRACTOR WILL FURNISH AND INSTALL 5LB MULTIPURPOSE DRY CHEMICAL (2A/10BC) RATED FIRE EXTINGUISHERS WITH MOUNTING BRACKETS AND ACCESSORIES AT 4'-0" A.F.F. AS REQUIRED BY GOVERNMENTAL AUTHORITIES. MAXIMUM TRAVEL DISTANCE OF 125'-0" FOR PLACEMENT.
C. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE, LOCATE, AND CONFIRM ALL FLOOR SINK, UNDERGROUND / OVERHEAD PLUMBING AND ELECTRICAL STUB-UPS.
D. SEE ROOM FINISH SCHEDULE FOR ALL ROOM FINISHES, SHEET A1.2.
E. SEE EQUIPMENT PLAN FOR EQUIPMENT INFORMATION, SHEET A1.3
F. GENERAL CONTRACTOR TO CAULK AND SEAL ALL EXPANSION AND SAW CUT JOINTS AT ALL EXTERIOR/INTERIOR CONCRETE - SEE JOINT SEALER SPECIFICATIONS.
G. ALL ITEMS SUCH AS LIGHT SWITCHES, FIRE EXTINGUISHERS, FIRE ALARM PULLS AND OTHER ITEMS TO BE LOCATED AS CLOSE AS POSSIBLE TO THE ADJACENT DOOR FRAME.
H. AT MOP SINK AND SINKS, PROVIDE 120 CLEANING SOLUTION DISPENSER ON HOSE BIBB SIDE.
I. THERE SHALL BE A MAXIMUM 1/2" OFFSET AT ALL THRESHOLDS AND AT ANY CHANGE OF FLOORING MATERIALS. OFFSETS GREATER THAN 1/4" REQUIRE A MAXIMUM BEVELED SLOPE OF 1 UNIT VERTICAL TO 2 UNITS HORIZONTAL.
J. ALL DOORS ARE 4" OFF ADJACENT WALLS UNO.
K. ALL EXTERIOR DOOR LANDING GRADES SHALL HAVE A SMOOTH TRANSITION TO THE ADJACENT PAVED SURFACE, AND THE MAX. RUNNING AND CROSS SLOPE OF ALL LANDINGS WILL BE 2%.
L. PROVIDE THERMOMETER ACCURATE TO 2 DEGREES FAHRENHEIT IN REFRIGERATORS IF ONE IS NOT INCLUDED WITH FIXTURE.
M. ALL HAND SINKS MUST BE PROVIDED WITH A HAND WASHING SIGN, PAPER TOWEL DISPENSER AND HAND SOAP DISPENSER.

WALL LEGEND

FRAMING / DIMENSIONING NOTE:

ALL DIMENSIONS ARE TO FACE OF SLAB AND FACE OF STUD.

A — EXTERIOR WALL:
EXTERIOR: EXTERIOR FINISH (PER BUILDING SECTIONS) OVER TYVEK® COMMERCIAL WRAP OVER EXTERIOR SHEATHING OVER 2x6 WOOD STUDS @ 16" O.C.
INTERIOR: 5/8" FIBEROCK BRAND BACKERBOARD AT BASE TO 12" A.F.F. WITH 5/8" PLYWOOD FRP PANEL TO 10'-6" A.F.F., PROVIDE R-19 BATT INSULATION IN WALLS, PER BUILDING SECTIONS.

B — INTERIOR PARTITION WALL: FULL HEIGHT
2x4" WOOD STUDS @ 16" O.C., 1/2" FIBEROCK BRAND BACKERBOARD AT BASE TO 12" A.F.F. WITH 1/2" PLYWOOD & FRP PANEL TO 10'-6" A.F.F., BOTH SIDES. PROVIDE R-19 ACOUSTICAL BATT INSULATION AT RESTROOM.

C — PLUMBING PARTITION: FULL HEIGHT
2x6 WOOD STUDS @ 16" O.C. 1/2" FIBEROCK BRAND BACKERBOARD AT BASE TO 12" A.F.F. WITH 1/2" PLYWOOD & FRP PANEL TO 10'-6" A.F.F. BOTH SIDES. PROVIDE R-19 ACOUSTICAL BATT INSULATION AT RESTROOM.

D — EXTERIOR WING WALL:
EXTERIOR FINISH OVER RAIN SCREEN OVER TYVEK® COMMERCIAL WRAP OVER EXTERIOR SHEATHING (BOTH SIDES) OVER 2x6 WOOD STUDS @ 16" O.C.

E — EXTERIOR WING WALL:
EXTERIOR FINISH OVER RAIN SCREEN OVER TYVEK® COMMERCIAL WRAP OVER EXTERIOR SHEATHING (BOTH SIDES) OVER 2x8 WOOD STUDS @ 16" O.C.

KEYNOTES - FLOOR PLAN

(X)

1. ELECTRICAL PANEL; REFER TO ELECTRICAL DRAWINGS.
2. ELECTRICAL SERVICE ENTRANCE; REFER TO ELECTRICAL DRAWINGS. COORDINATE FINAL LOCATION TO ENSURE LOCATION DOES NOT INTERFERE WITH OTHER ITEMS.
3. ELECTRIC TANK WATER HEATER ABOVE; REFER TO PLUMBING DRAWINGS.
4. MOP SINK; REFER TO PLUMBING DRAWINGS.
5. HOSE BIBB; REFER TO PLUMBING DRAWINGS.
6. FLOOR DRAIN; REFER TO PLUMBING DRAWINGS.
7. FLOOR SINK; REFER TO PLUMBING DRAWINGS.
8. R.O. SYSTEM; REFER TO PLUMBING DRAWINGS.
9. MANAGER'S STATION.
10. FLOOR SAFE BY OWNER, BOLTED TO FLOOR BY G.C.
11. 6-DOOR EMPLOYEE LOCKERS ANCHORED TO WALL BY G.C.
12. LINE OF AWNING ABOVE; BY OTHERS.
13. DASHED LINE REPRESENTS ANGLED WING WALL ABOVE.
14. DOMESTIC WATER SERVICE; REFER TO PLUMBING DRAWINGS.
15. OPEN SIGN, BY OWNER
16. DATA RACK ABOVE; REFER TO ELECTRICAL DRAWINGS.
17. KNOX BOX; REFER TO EXTERIOR ELEVATIONS.
18. THERMOSTAT SENSOR; REFER TO MECHANICAL DRAWINGS.
19. THERMOSTAT; REFER TO MECHANICAL DRAWINGS.
20. MAILBOX (BY OWNER) LOCATED UNDER KNOX BOX; REFER TO EXTERIOR ELEVATIONS.
21. NOT USED.
22. UNDERSLAB GREASE TRAP; REFER TO PLUMBING DRAWINGS.
23. SCHIER PUMP-OUT PORT KIT (PP3). ROUTE PLUMBING UNDER SLAB TO OUTSIDE OF EXTERIOR WALL AT 24" ABOVE GRADE. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

WINDOW LEGEND	
(#)	WINDOW TAG. REFER TO SCHEDULE ON SHEET A5.1
DOOR LEGEND	
(#)	DOOR TAG. REFER TO SCHEDULE ON SHEET A5.2

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300
PH: (314) 415-2400
ST. LOUIS, MO 63146
FAX (314) 415-2300
www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

DIMENSION PLAN & FLOOR PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.
A1.1

FINISH SCHEDULE

X

CODE	DESCRIPTION	MANUFACTURER	STYLE / PATTERN / COLOR	NOTES
FRP-1	FIBER REINFORCED PLASTIC	CRANE COMPOSITES	COLOR: WHITE FINISH: PEBBLE EMBOSSED	4' x 10' SHEETS INSTALL VERTICAL
WB-1	VINYL WALL BASE	JOHNSONITE	40 BLACK B (4" HIGH x .80" THICK)	PROVIDE SILICONE SEALANT AT FLOOR
SC-1	SEALED CONCRETE	ASHFORD FORMULA	CLEAR SEALER	SEALER SHALL BE HEALTH DEPARTMENT APPROVED
PT-1	PAINT	SHERMAN-WILLIAMS	COLOR: SW7035 AESTHETIC WHITE FINISH: SEMI-GLOSS	INTERIOR DOOR AND INSIDE OF EXTERIOR DOOR
PT-2	PAINT	SHERMAN-WILLIAMS	COLOR: SW6992 INKWELL FINISH: SEMI-GLOSS	OUTSIDE OF EXTERIOR DOOR
CG-1	FIBER REINFORCED PLASTIC CORNER GUARD	CRANE COMPOSITES	OUTSIDE CORNER	
CG-2	STAINLESS STEEL CORNER GUARD	CRANE COMPOSITES	OUTSIDE CORNER	OPTIONAL

GENERAL NOTES

A. REFER TO WALL SECTIONS AND ELEVATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

B. INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.

C. ALL FINISHES SHALL MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS FOR THEIR USE, AS REQUIRED BY LOCAL CODES.

D. G.C. SHALL CAULK JOINT BETWEEN CEILING GRID & FRP WALL PANELS IN ALL AREAS.

E. ALL HOLLOW METAL DOORS AND FRAMES SHALL BE PRIMED & PAINTED - UNO.

F. INSTALL MATERIAL OF THE LONGEST PRACTICAL LENGTHS & SIZES TO MINIMIZE THE NUMBER OF JOINTS.

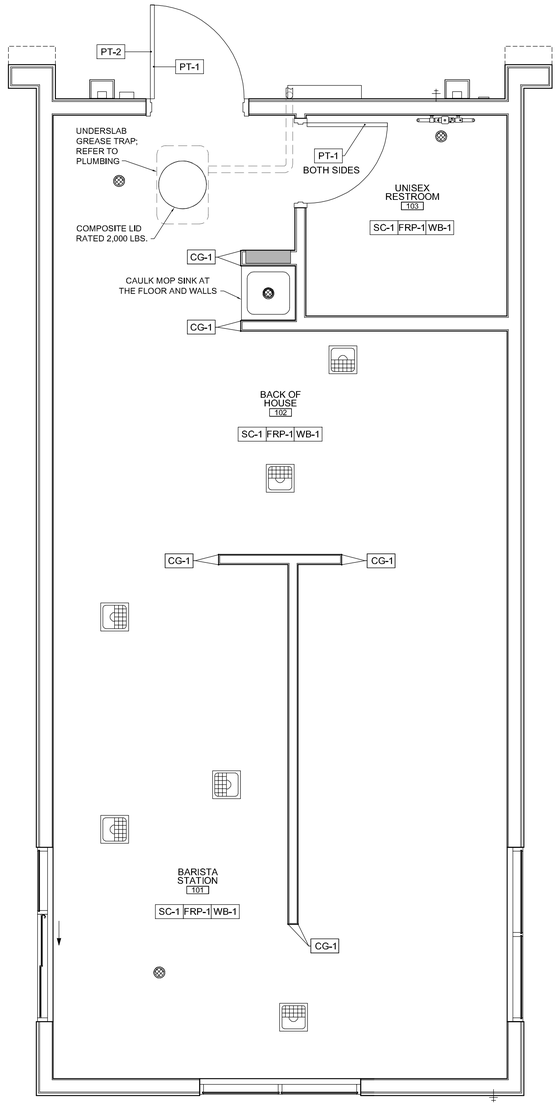
G. PROVIDE PVC JOINT TRANSITIONS AT FRP AT ALL JOINTS EXCEPT AT OUTSIDE CORNERS. PROVIDE CORNER GUARDS AT OUTSIDE CORNERS.

H. ANY DECORATIONS USED SHALL BE NON-COMBUSTIBLE OR FLAME PROOFED IN AN APPROVED MANOR.

I. THE CONTRACTOR SHALL PROTECT ALL ADJACENT MATERIALS AND EQUIPMENT AGAINST DAMAGE FROM SPILLAGE, DRIPPING AND SPATTER OF COATING MATERIALS. REPLACE DAMAGED TILE AS REQUIRED. ALL BUILDING MATERIALS AND EQUIPMENT SHALL BE LEFT CLEAN, WITH ALL DAMAGED SURFACES CORRECTED. PROVIDE "WET PAINT" SIGNS TO INDICATE NEWLY PAINTED SURFACES.

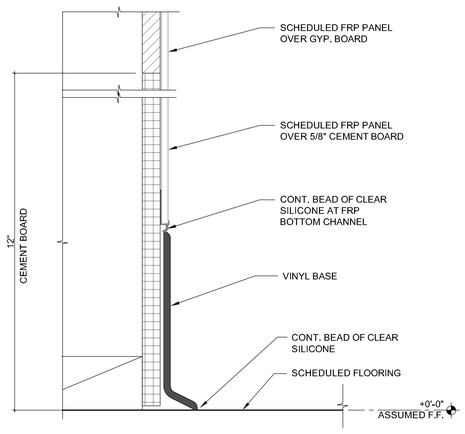
J. ALL FINISHES SHALL BE CLASS C WITH FLAME SPREAD INDEX OF 76-200 AND SMOKE DEVELOPMENT INDEX OF 0-450.

NOTE:
NO ALTERATIONS ON FINISHES WITHOUT CORPORATE APPROVAL



1 FINISH FLOOR PLAN
SCALE: 3/8" = 1'-0"

PLAN NORTH



2 VINYL WALL BASE AT FRP
SCALE: 6" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300
PH: (314) 415-2400
ST. LOUIS, MO 63146
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TITLE:

FINISH PLAN AND SCHEDULE

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

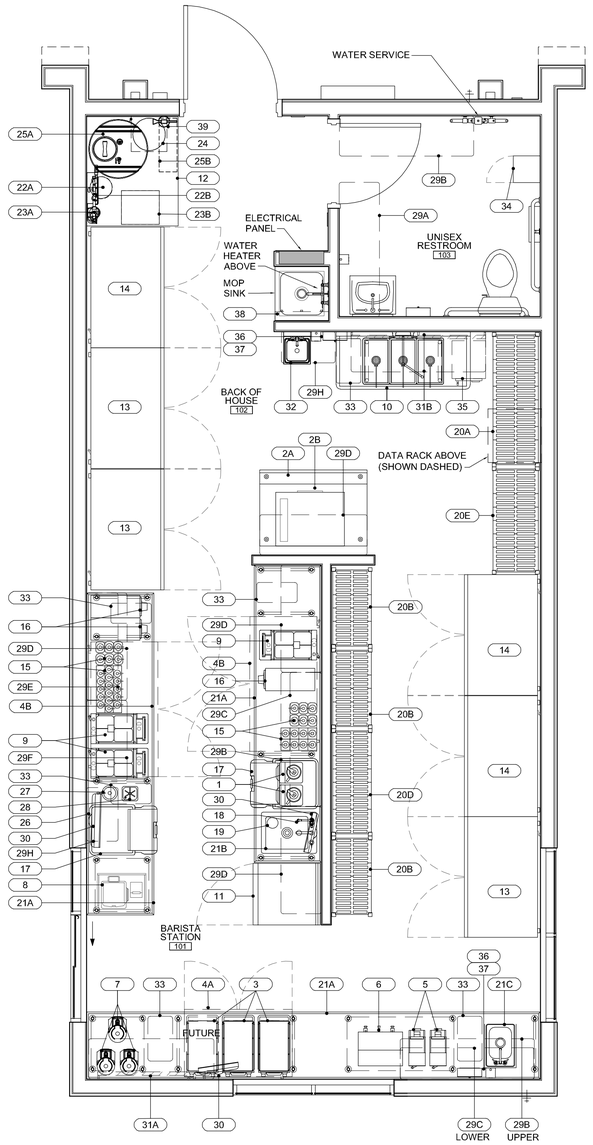
SHEET NO.
A1.2

EQUIPMENT SCHEDULE

ITEM / TAG	DESCRIPTION	MANUFACTURER	SUPPLIER	MODEL #	CONTRACTOR		CLIENT / VENDOR		REMARKS
					PROVIDE	INSTALL	PROVIDE	INSTALL	PROTO 4.2.4 UPDATED 8/21/2025
1	BEVERAGE BLENDER	VITAMIX	KEQ/HARVEST	SCH068515-BBAB			X	X	
2A	R/C ICE MAKER, CUBE-STYLE	SCOTSMAN	KEQ	MC0830SR-32		X	X		GC SHALL PROVIDE WATER & DRAIN CONNECTIONS, WATER MUST BE FROM FILTERED LINE, GC TO PROVIDE POWER CORD. REQUIRES REMOTE ROOFTOP CONDENSOR.
2B	ICE STORAGE BIN	SCOTSMAN	KEQ	B842S		X	X		B842S = 778 LBS.
3	RAPID COOK OVEN	MERRY CHEF	KEQ	CONNEX 12			X	X	1 DATA LINE REQUIRED PER OVEN; 208-240V, 30 AMPS - NEMA 6-30P
4A	U/C REFRIGERATOR (48")	ATOSA	KEQ	MGF8402GR			X	X	115V; 5-15 NEMA PLUG; 2.3 AMPS
4B	U/C REFRIGERATOR (60")	ATOSA	KEQ	MGF8403GR			X	X	115V; 5-15 NEMA PLUG; 2.8 AMPS
5	COFFEE GRINDER	BUNN	KEQ	G2 HD BLK			X	X	120V; 5-15 NEMA PLUG; 11 AMPS
6	COFFEE BREWER	FETCO	KEQ/HARVEST	HARVEST E213252			X	X	208/240V / 60 / 1-PH; 11 AMPS; NEMA 5-15P; ELECTRICIAN TO PROVIDE PLUG
7	COFFEE DISPENSER	FETCO	KEQ/HARVEST	HARVEST D45100000			X	X	
8	POS TERMINAL W/ PRINTER	PAR/BRINK	PAR/BRINK	PAR/BRINK M3901			X	X	
9	ESPRESSO MACHINE	FRANKE	FRANKE	S700TS			X	X	220V CIRCUITS WITH TWIST LOCK RECEPTACLES. ELECTRICAL CONTRACTOR TO PROVIDE & INSTALL NEMA L6-30R RECEPTACLE W/ MATCHING NEMA L6-30P PLUGS ON WHIP AT MACHINE, AND VERIFY IF A BUCK BOOSTER IS REQ'D TO ACHIEVE 208V POWER.
10	3-COMP SINK	BK RESOURCES	KEQ	BKS-3-1220-12-12TS			X	X	VENDOR INSTALL; PLUMBER TO MAKE FINAL CONNECTIONS
11	WORKTOP REFRIGERATOR	ATOSA	KEQ	MGF8408GR			X	X	
12	DUNNAGE RACK	NEWAGE INDUSTRIAL	KEQ	2031					
13	REACH-IN REFRIGERATOR (2 DOOR)	ATOSA	KEQ	MBF8507GR			X	X	115V / 60 / 1-PH; 5-15 NEMA CORD WITH PLUG; 3.2 AMPS
13A	REACH-IN REFRIGERATOR (1 DOOR)	ATOSA	KEQ	MBF8505GR			X	X	115V / 60 / 1-PH; 5-15 NEMA CORD WITH PLUG; 2.1 AMPS
14	REACH-IN FREEZER (2 DOOR)	ATOSA	KEQ	MBF8503GR			X	X	115V / 60 / 1-PH; 5-15 NEMA CORD WITH PLUG; 8.6 AMPS
15	SYRUP STAND, 4 BOTTLE	SMALLWARES ORDER	KEQ	-			X	X	SMALLWARES ORDER
16	DISPOSABLE CUP DISPENSER	SMALLWARES ORDER	KEQ/HARVEST	SANC8504WF			X	X	SMALLWARES ORDER
17	MOBILE ICE STORAGE BIN	CAMBRO	KEQ	ICS100L110			X	X	
18	DECK MOUNT SINGLE FAUCET	T&S BRASS	KEQ	B-0207 SCH		X	X		R.O. WATER TO BE SUPPLIED, PLUMBER HOOK UP. PROVIDE 'T' ADAPTOR, TO ALLOW FOR SWITCHING BETWEEN R.O. WATER AND SCW.
19	BLENDER CONTAINER RINSER	VITAMIX	KEQ	RINSE-O-MATIC 1442			X	X	PLUMBER HOOK UP
20A	WIRE SHELVING	METRO	KEQ	CHROME FINISH 21"x60"			X	X	MANAGER STATION; BOTTOM SHELF TO BE SOLID
20B	WIRE SHELVING	METRO	KEQ	CHROME FINISH 18"x36"			X	X	
20C	WIRE SHELVING	METRO	KEQ	CHROME FINISH 18"x42"			X	X	
20D	WIRE SHELVING	METRO	KEQ	CHROME FINISH 18"x48"			X	X	
20E	WIRE SHELVING	METRO	KEQ	CHROME FINISH 21"x48"			X	X	
21A	S/S COUNTER	CUSTOM	KEQ	CUSTOM FAB			X	X	PER SCOOTER'S COFFEE APPROVED CUSTOM SHOP DRAWINGS
21B	PITCHER RINSER SINK	CUSTOM	KEQ	CUSTOM FAB			X	X	PER SCOOTER'S COFFEE APPROVED CUSTOM SHOP DRAWINGS
21C	HAND SINK W/ SPLASH GUARD	CUSTOM	GC	CUSTOM FAB			X	X	PER SCOOTER'S COFFEE APPROVED CUSTOM SHOP DRAWINGS
22A	WATER TREATMENT SYSTEM (4)	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	DP290			X	X	FILTERS ONLY - PLUMBER TO INSTALL. PLUMBER TO PROVIDE & INSTALL 3-VALVE BYPASS. PROVIDE TEMPERING VALVE FOR ALL LOCATIONS NORTH OF 37th PARALLEL.
22B	WATER TREATMENT SYSTEM (1)	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	-			X	X	FILTERS ONLY - PLUMBER TO INSTALL
23A	WATER SOFTENER	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	-			X	X	
23B	BRINE TANK	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	-			X	X	
24	BUFFER TANK W/ S/S SHELF	CLEAN WATER GUYS / KINETICO	WATER FILTRATION SUPPLIER	-			X	X	
25A	WATER STORAGE TANK	CLEAN WATER GUYS / KINETICO	KEQ	50 GALLON			X	X	
25B	WATER PUMP	CLEAN WATER GUYS / KINETICO	KEQ	-			X	X	
25C	DAB BOOSTER PUMP	CLEAN WATER GUYS / KINETICO	KEQ	-			X	X	MOUNTED ON WALL IF REQUIRED
26	ZOOM TIMER	HME	COMMERCIAL ELECTRONICS	NITRO			X	X	PROVIDE (1) ONE CAT5 DATA LINE AT TIMER
27	BUILT-IN DIPPER WELL W/ FAUCET	T&S BRASS	KEQ	B-2282-01		X	X		PLUMBER TO INSTALL
28	BUILT-IN PITCHER RINSER	SMALLWARES ORDER	KEQ	-		X	X		6" x 6" x 2" CUT OUT
29A	WALL MOUNT WIRE SHELVING	METRO	KEQ	18"x72"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29B	WALL MOUNT WIRE SHELVING	METRO	KEQ	18"x60"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29C	WALL MOUNT WIRE SHELVING	METRO	KEQ	14"x60"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29D	WALL MOUNT WIRE SHELVING	METRO	KEQ	18"x48"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29E	WALL MOUNT WIRE SHELVING	METRO	KEQ	14"x48"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29F	WALL MOUNT WIRE SHELVING	METRO	KEQ	18"x36"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29G	WALL MOUNT SHELVING	METRO	KEQ	14"x24"			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
29H	ORDER STAGING CART	METRO	KEQ	SC30			X	X	OPTIONAL - ONLY REQUIRED FOR SBS LOCATIONS
30	DRIVE-THRU ORDER MONITOR	VIEWSONIC 32" FLAT TV	PARTECK / BRINK	PARTECH M3710		X	X		PROVIDE (1) ONE CAT5 DATA LINE AT EACH MONITOR
31A	SMART WALL	METRO 48"	KEQ	SC48-SWCS-K4			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
31B	SMART WALL	METRO 60"	KEQ	SC60-3COMP-K4			X	X	PROVIDE EACH UNIT W/ WALL BRACKET HARDWARE
32	WALL MOUNT HAND SINK	BK RESOURCES	KEQ	BKHS-W-SS-SS-P-G		X	X		PLUMBER INSTALL 12"W x 14.5"D x 12.25"H; 9x9 5" DEEP BOWL
33	TRASH RECEPTACLE	SMALLWARES ORDER	KEQ	23 GALLON BLACK TRIMLINE		X	X		UNDER COUNTER
34	EMPLOYEE LOCKERS	-	KEQ	-		X	X		12 x 12 x 12 6 TIER G.C. TO ANCHOR TO WALL
35	SAFE	-	KEQ	-		X	X		BOLTED TO FLOOR BY G.C.
36	SOAP DISPENSER	DIVERSEY ORDER / HARVERST	KEQ	-		X	X		SURFACE MOUNTED BY G.C.
37	PAPER TOWEL DISPENSER	SMALLWARES ORDER	GC	BOBRICK 2621		X	X		SURFACE MOUNTED BY G.C.
38	MOP & BROOM RACK	SMALLWARES ORDER	KEQ	BOBRICK B-223		X	X		SURFACE MOUNTED BY G.C.
39	FIRE EXTINGUISHER	AMEREX	GC	2A:10B:C	X	X			SUPPLIED WITH WALL MOUNT HOOK BRACKET 888-16591

GENERAL NOTES:

1. ALL MILLWORK/STAINLESS STEEL COUNTERS/ WIRE SHELVES TO BE PROVIDED AND INSTALLED BY CONCEPT SERVICES, UNLESS OTHERWISE NOTED
2. THE WATER FILTRATION SYSTEM IS TYPICALLY TO BE INSTALLED IN BACK-OF-HOUSE AREA
3. THE REVERSE OSMOSIS SYSTEM IS TO BE INSTALLED NEXT TO THE WATER FILTRATION SYSTEM
4. G.C. TO INSTALL 12"W X 12"L X 12"D CONC. SLAB TO ACCEPT COMMUNICATION POST (PROVIDED BY OTHERS) - CONC. SLAB TO BE PLACED FROM FACE OF CURB IN LOCATION NOTED ON SCHEMATIC DRIVE-THRU MENU-BOARD & SPEAKER/INTERCOM PLAN - CONC. SLAB TO INCLUDE 2 BLANK CONDUITS LOCATED IN THE CENTER OF THE SLAB - ONE OF THESE CONDUITS TO BE RAN FROM THE CENTER OF SLAB TO INSIDE THE BUILDING TO THE LOCATION NEAR THE ELECTRICAL PANEL - THE OTHER CONDUIT WILL BE RAN FROM THE CENTER OF SLAB & CONNECTED TO THE UNDERGROUND LOOP SENSOR (PROVIDED BY OTHERS) IN DRIVE THRU LANE - NOTE: MENU BOARD LOCATION: PROVIDE A CONDUIT WITH POWER RAN TO THE OUTSIDE MENU BOARD LOCATION NOTED ON PLAN.
5. GC WILL NEED TO COORDINATE WITH COUNTERTOP FAB FOR PROPER LOCATION OF COUNTERTOP LEGS WITH FLOOR SINK LOCATION.
6. G.C. SHALL PROVIDE 2X BLOCKING IN WALL FOR ALL WALL MOUNTED SHELVING.



1 EQUIPMENT PLAN

SCALE: 3/8" = 1'-0"

PLAN NORTH

REGISTRATION SEAL
NORTH CAROLINA
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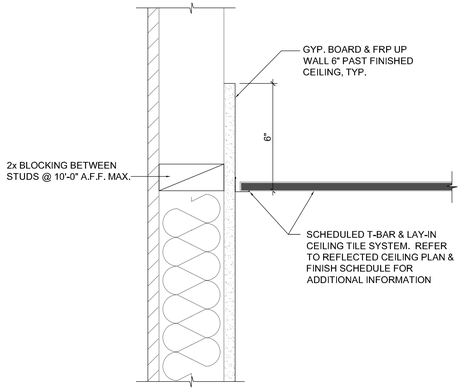
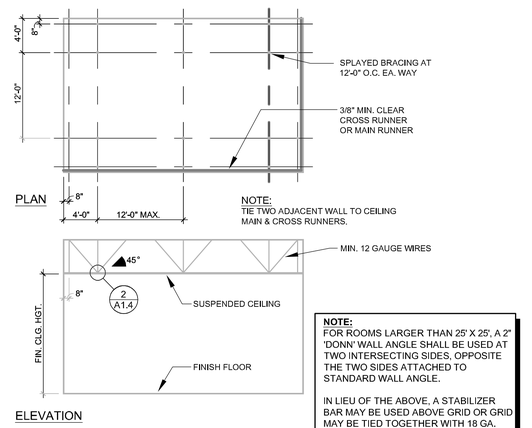


4 SUSPENDED LAY-IN CEILING AT WALL

SCALE: 3" = 1'-0"

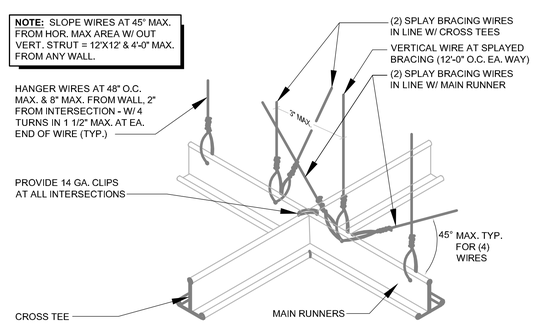


NOTE:
FOR ROOMS LARGER THAN 25' X 25', A 2" 'DONN' WALL ANGLE SHALL BE USED AT TWO INTERSECTING SIDES, OPPOSITE THE TWO SIDES ATTACHED TO STANDARD WALL ANGLE.

IN LIEU OF THE ABOVE, A STABILIZER BAR MAY BE USED ABOVE GRID OR GRID MAY BE TIED TOGETHER WITH 18 GA. WIRE FROM RUNNER TO RUNNER, CONTINUOUSLY AT THE TWO SIDES.

3 TYPICAL CEILING SUSPENSION SYSTEM

SCALE: NTS

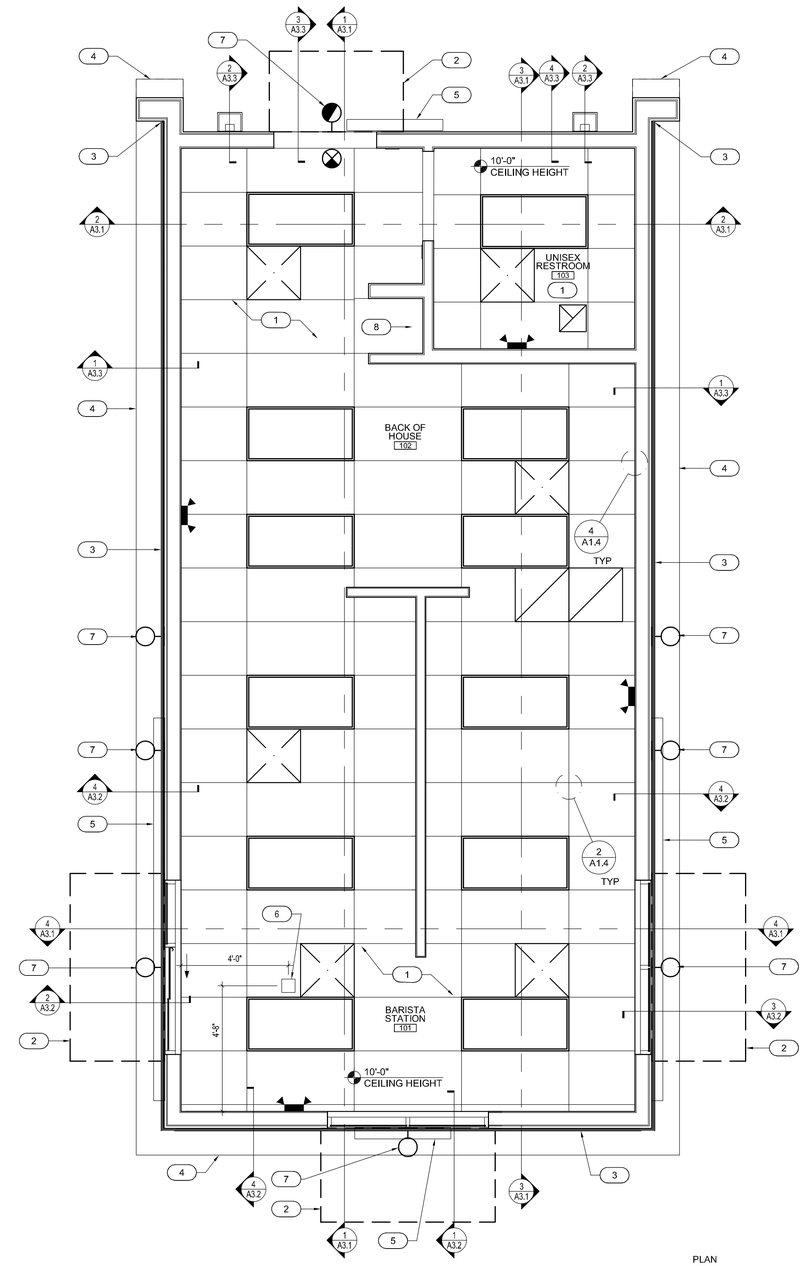


NOTE: ARMSTRONG GRID TO COMPLY WITH ICC ESR 1308 - HEAVY DUTY GRID SHALL BE USED IN SEISMIC ZONES C-F

NOTE:
PROVIDE HANGER WIRE AT EA. CORNER OF LIGHT FIXTURE, TYP. AT WOOD JOISTS, PROVIDE HILTI EL-S EYELET FASTNER, OR EQUAL.

2 SUSPENDED LAY-IN ACOUSTIC CEILING

SCALE: NTS



1 REFLECTED CEILING PLAN

SCALE: 3/8" = 1'-0"

CEILING LEGEND

SYMBOL	FIXTURE	NOTES
	2'x4' LIGHT FIXTURE WITH PRISMATIC LENS	RECESSED IN CEILING GRID AT +10'-0" A.F.F.
	SUPPLY AIR GRILLE TITUS TMS 3 BLADE DIFFUSER OR SIMILAR	RECESSED IN CEILING GRID AT +10'-0" A.F.F.
	RETURN AIR RH45T COMMERCIAL T-BAR ALUMINUM GRILLE	RECESSED IN CEILING GRID AT +10'-0" A.F.F.
	TOILET ROOM EXHAUST FAN	RECESSED IN CEILING GRID AT +10'-0" A.F.F.
	EXTERIOR WALL SCONCE	SURFACE MOUNTED
	EXTERIOR EMERGENCY WALL SCONCE	SURFACE MOUNTED
	LED EXIT SIGN	CEILING MOUNTED AT +10'-0" A.F.F.
	EMERGENCY LIGHT W/ BUG EYES	WALL MOUNTED AT +9'-0" A.F.F.
	PERIMETER LED STRIP LIGHT	SURFACE MOUNTED

NOTE: ALL LIGHTS TO BE PURCHASED BY FRANCHISEE OR GENERAL CONTRACTOR AND INSTALLED BY GENERAL CONTRACTOR.

CEILING MATERIAL LEGEND

ITEM	MFR (OR EQUAL)	MODEL NUMBER
TYPE "A"	ARMSTRONG	24" x 48" ARMSTRONG KITCHEN ZONE OR EQUAL TILES TO BE SMOOTH AND WASHABLE

GENERAL NOTES

A. WHERE LIGHT FIXTURES ARE MOUNTED IN A LAY-IN CEILING, PROVIDE A MINIMUM OF 2 SUPPORT WIRES ATTACHED DIRECTLY BETWEEN EACH LIGHT FIXTURE AND THE BUILDING STRUCTURE. SUPPORT WIRES AT OPPOSITE CORNERS, SHALL BE A MINIMUM OF 12 GAUGE GALVANIZED STEEL WIRE, SOFT ANNEALED.

B. FIXTURES ARE REQUIRED AT ALL LIGHTING OUTLETS SHOWN ON THE DRAWINGS. APPROVED LIGHTING FIXTURE WIRE IS REQUIRED IN ALL FIXTURES AND FIXTURE RACEWAYS. WEATHERPROOF WIRING IS REQUIRED FOR EXTERIOR FIXTURES. ALL PARTS OF FIXTURES AND WIRING SHALL BE IN ACCORDANCE WITH NECESSARY REQUIREMENTS.

C. ALL FIXTURES SHALL CARRY UL AND ETL LABELS. ALL FLUORESCENT FIXTURE BALLASTS SHALL BE HIGH FREQUENCY ELECTRONIC BALLASTS WITH A "TOTAL HARMONIC DISTORTION: OF LESS THAN 20%, REGARDLESS OF THE NUMBER OF LAMPS CONNECTED TO EACH BALLAST AND SHALL HAVE CBM LABEL. ALL FLUORESCENT FIXTURES INSTALLED SHALL INCORPORATE BALLAST PROTECTION. ALL FLUORESCENT BALLASTS SHALL HAVE AN AUDIBLE NOISE RATING OF "CLASS A" OR BETTER. ALL FLUORESCENT BALLASTS SHALL HAVE A POWER FACTOR GREATER THAN 98% WHEN USED WITH PRIMARY LAMP.

CEILING SPECIFICATION - ACOUSTICAL CEILING SYSTEM

EXPOSED TEE GRID ARMSTRONG PRELUDE XL 15/16 EXPOSED TEE GRID SYSTEMS OR EQUIVALENT AND INSTALL PER ICC 1308 (ARMSTRONG)

HANGER WIRE, MINIMUM 12 GA. AWG GALVANIZED SOFT ANNEALED, MILD STEEL WIRE.

HANGER CLIPS, PREFABRICATED METAL CLAMPS, EYELET SCREWS FOR FASTENING TO STRUCTURAL WOOD MEMBERS.

LIGHT FIXTURES
LIGHT FIXTURES SHALL BE PROCURED THROUGH A NATIONAL LIGHTING PROGRAM WITH VILLA LIGHTING SUPPLY. PRICES HAVE BEEN PRE-NEGOTIATED AND PRODUCT IS STOCKED AT VILLA'S DISTRIBUTION CENTER IN ST LOUIS MO. PRODUCT CAN SHIP WITHIN 48 OF RELEASE, PLEASE ALLOW 4-5 DAYS OF TRAVEL AFTER RELEASE. CONTACT DEANNA MCCLANAHAN AT 314-633-0508 OR SCOOTERS@VILLALIGHTING.COM

KEYNOTES - REFLECTED CEILING

#

1. 2' x 4' WASHABLE LAY-IN CEILING TILES. (FIRE RATING - CLASS A)
2. RED CANVAS AWNING FURNISHED AND INSTALLED BY OTHERS.
3. PERIMETER LED AT EXTERIOR SOFFIT, REFER TO ELECTRICAL DRAWINGS.
4. HARDIE PANEL SOFFIT & CORNICE.
5. SIGNAGE FURNISHED AND INSTALLED BY OTHERS, UNDER A SEPARATE PERMIT. G.C. TO PROVIDE BLOCKING FOR SIGNAGE.
6. ACCESS POINT LOCATION, CEILING MOUNTED.
7. EXTERIOR LIGHTING ON TIMECLOCK. REFER TO ELEVATIONS FOR LOCATIONS; REFER TO ELECTRICAL DRAWINGS.
8. ELECTRIC TANK WATER HEATER; REFER TO PLUMBING DRAWINGS.

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH: (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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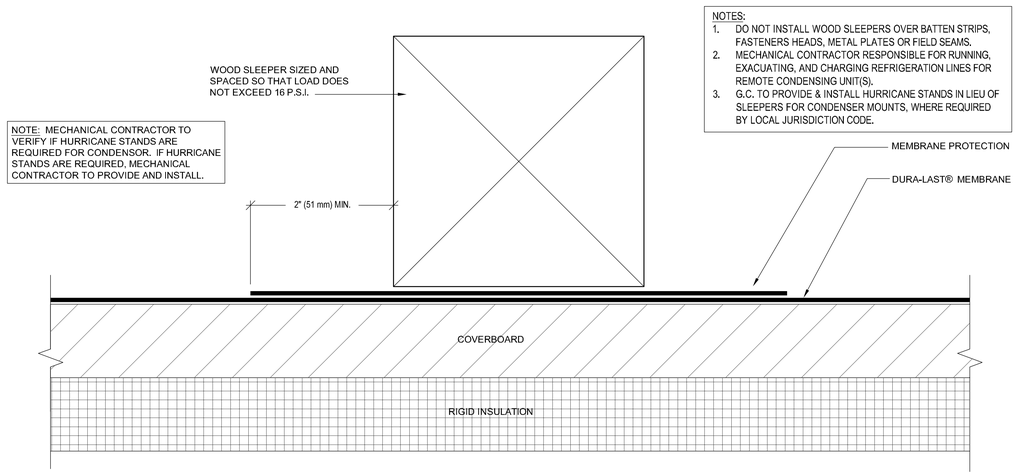
TITLE:
REFLECTED CEILING PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
AGG
CHECKED BY:
SW

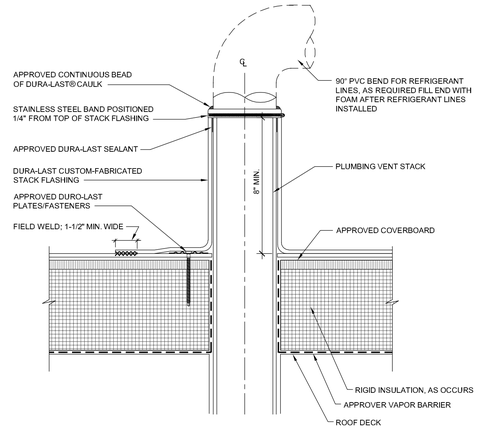
SHEET NO.
A1.4



NOTES:
1. DO NOT INSTALL WOOD SLEEPERS OVER BATTEN STRIPS, FASTENERS HEADS, METAL PLATES OR FIELD SEAMS.
2. MECHANICAL CONTRACTOR RESPONSIBLE FOR RUNNING, EXACUATING, AND CHARGING REFRIGERATION LINES FOR REMOTE CONDENSING UNIT(S).
3. G.C. TO PROVIDE & INSTALL HURRICANE STANDS IN LIEU OF SLEEPERS FOR CONDENSER MOUNTS, WHERE REQUIRED BY LOCAL JURISDICTION CODE.

4 WOOD SLEEPER

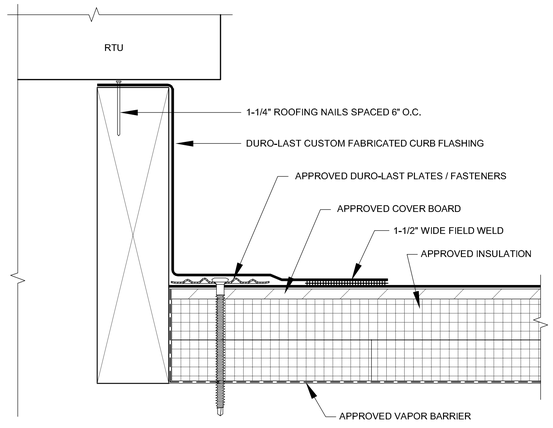
SCALE: NTS



NOTES:
1. LEAD FLASHINGS MUST BE REMOVED PRIOR TO INSTALLING DURO-LAST STACK FLASHINGS.
2. DECK MEMBRANE SHALL BE FASTENED AROUND THE PERIMETER OF THE DURO-LAST STACK FLASHING AS PER THE RESPECTIVE ZONE OF THE DURO-LAST STACK FLASHING IS LOCATED WITHIN (FIELD, PERIMETER, CORNER), NO LESS THAN ONE FASTENER PER FLASHING.
3. ALL FIELD WELDS SHALL BE A MINIMUM OF 1-1/2 WIDE.
4. REFER TO SPECIFICATIONS FOR VAPOR BARRIER, INSULATION AND COVER BOARD REQUIREMENTS.
5. REFERENCE DURO-LAST DETAILS.

3 PLUMBING VENT STACK

SCALE: NTS



NOTES:
1. DECK MEMBRANE SHALL BE FASTENED AROUND PERIMETER OF ROOF PENETRATION AS PER RESPECTIVE ZONE THE ROOF ACCESS HATCH IS LOCATED WITHIN (FIELD, PERIMETER, CORNER).
2. ALL FIELD WLEDS SHALL BE A MINIMUM OF 1-1/2 WIDE.
3. REFER TO SPECIFICATIONS FOR VAOPER BARRIER, INSULATION AND COVER BOARD REQUIREMENTS.
4. REFERENCE DURO-LAST DETAIL 4020.

2 RECTANGULAR PENETRATION FOR MECHANICALLY FASTENED SYSTEMS

SCALE: NTS

ROOF ASSEMBLIES

DURO-LAST 50-MIL MEMBRANE OVER DURO-GUARD® ISO II INSULATION BOARD; REFER TO SPECIFICATIONS FOR ROOF ASSEMBLY.

ROOF DRAIN CALCULATIONS

ROOF AREA: 597 SQ.FT.
PARAPET AREA: 159 SQ.FT.
TOTAL AREA: 756 SQ.FT.

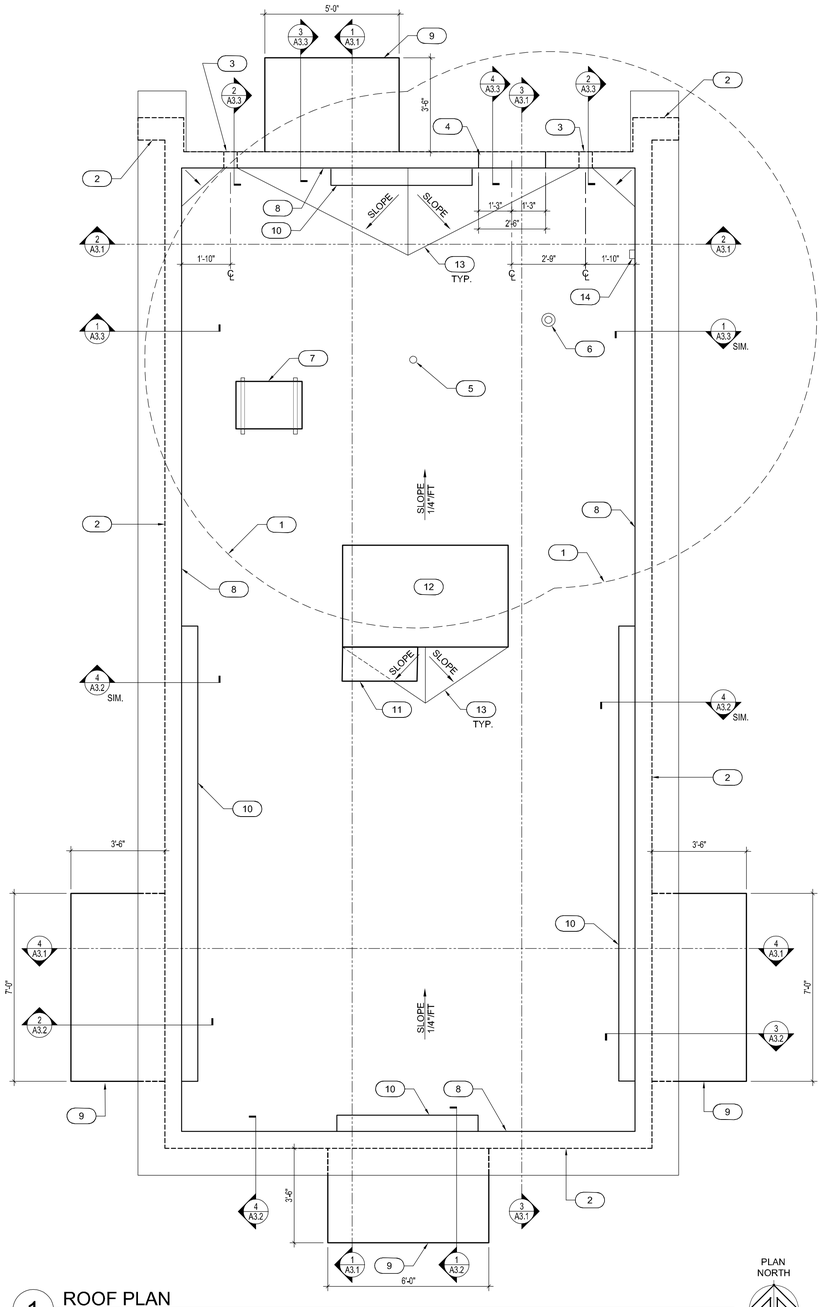
MINIMUM REQUIRED SCUPPER (WORSE CASE 6" PER HOUR): 2"x3"
PROVIDED: (2) 6" x 4" MAIN SCUPPER OPENINGS AND (2) 4"x4" CONDUCTOR HEAD OPENINGS FOR OVERFLOW
PROVIDED: VERTICAL 4"x3" DOWNSPOUTS

NOTE: ROOF IS DESIGNED TO HOLD ANY POTENTIAL PONDING WATER IF ONE ROOF SCUPPER SHOULD BECOME CLOGGED.

KEYNOTES - ROOF

#

1. PER CODE: NO AIR INTAKES MAY BE WITHIN A 10' RADIUS OF A VENT OR EXHAUST.
2. DASHED LINE REPRESENTS WALL BELOW PARAPET.
3. THRU WALL ROOF SCUPPER.
4. OPENING IN PARAPET FOR ROOF ACCESS.
5. VENT; REFER TO DETAIL 3/A1.5 & PLUMBING DRAWINGS.
6. 6" GOOSENECK FOR EXHAUST; REFER TO DETAIL 3/A1.5 & PLUMBING DRAWINGS.
7. CONDENSING UNIT ON REDWOOD SLEEPERS; REFER TO DETAIL 4/A1.5 AND MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR RESPONSIBLE FOR RUNNING, EVACUATING, AND CHARGING REFRIGERATION LINES FOR REMOTE CONDENSING UNIT(S). G.C. TO PROVIDE HURRICANE STANDS IN LIEU OF SLEEPERS FOR CONDENSER MOUNTS, WHERE REQUIRED BY LOCAL JURISDICTION CODE.
8. PRE-FINISHED METAL PARAPET CAP.
9. RED CANVAS AWNING BELOW; FURNISHED AND INSTALLED BY OTHERS. AWNINGS UNDER A SEPARATE PERMIT.
10. BACK OF PARAPET WILL HAVE A WIRING CABINET FOR BUILDING SIGNAGE. ROOFER SHALL PROPERLY SEAL AROUND BOX TO MEET MANUFACTURERS STANDARD DETAIL, 7/A0.4. SIGNAGE ON TIMECLOCK W/ PHOTOCELL OVERRIDE. SIGNAGE UNDER SEPARATE PERMIT.
11. OUTSIDE AIR INTAKE FOR AIR HANDING UNIT; REFER TO MECHANICAL DRAWINGS.
12. ROOFTOP UNIT ON CURB; REFER TO DETAIL 2/A1.5 AND MECHANICAL DRAWINGS.
13. BUILT-UP ROOF CRICKET.
14. OUTLET AT BACK SIDE OF PARAPET FOR HOLIDAY LIGHTING. PROPERLY SEAL FOR ROOFING ; REFER TO ELECTRICAL DRAWINGS.



1 ROOF PLAN

SCALE: 3/8" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
9950 CRAIG ROAD, SUITE 300
PH: (314) 415-2400
ST. LOUIS, MO 63146
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ROOF PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
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MAY 2025

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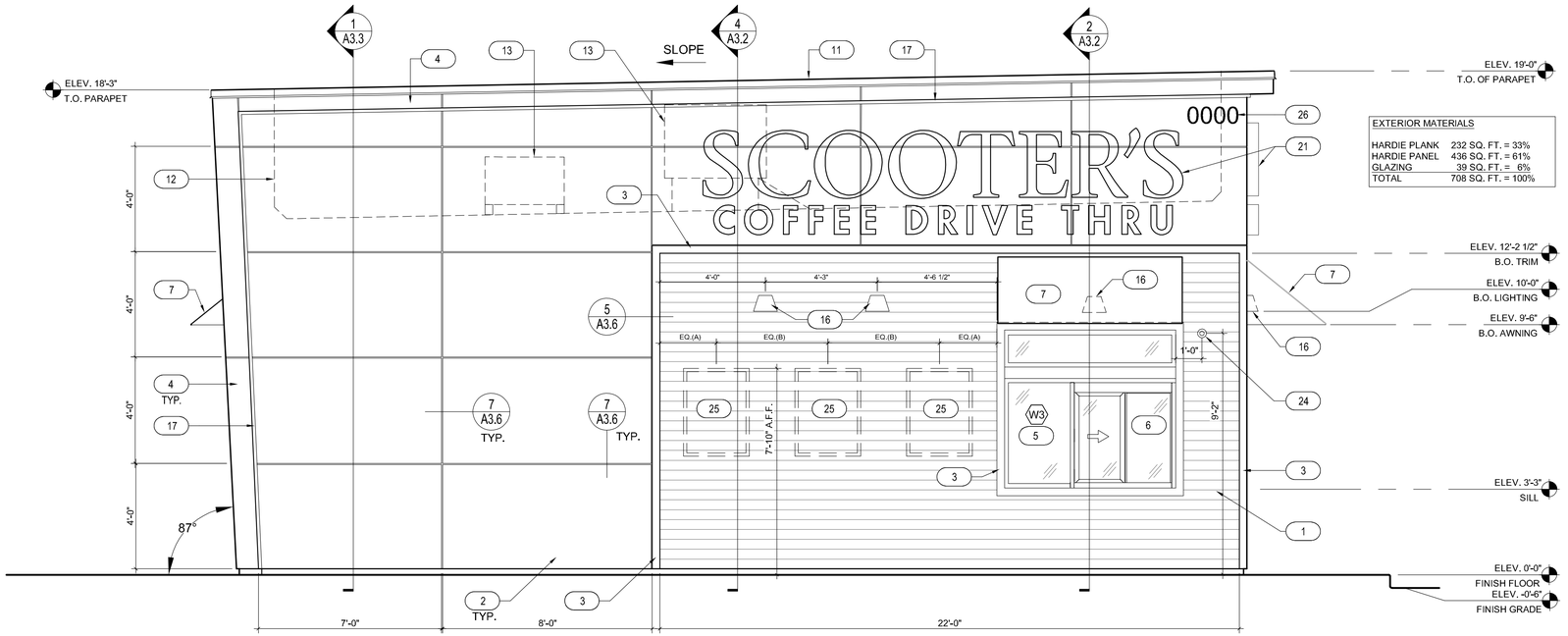
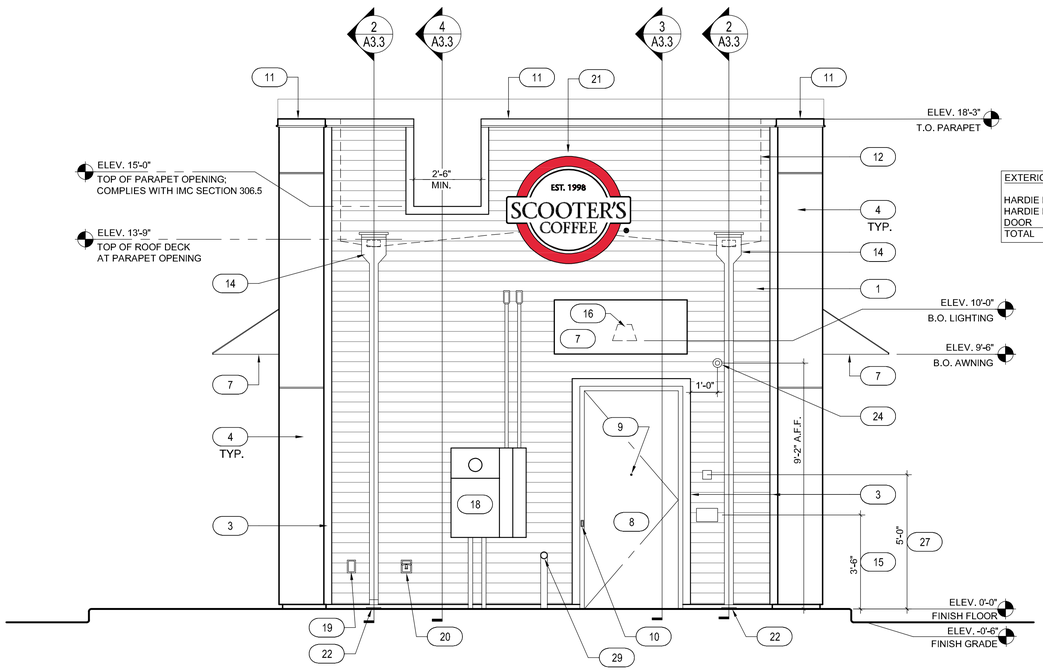


2 EAST ELEVATION

SCALE: 3/8" = 1'-0"



1 SOUTH ELEVATION

SCALE: 3/8" = 1'-0"

KEYNOTES

X

1. HARDIE PLANK LAP SIDING CEDARMILL 6-1/4", REFER TO EXTERIOR FINISH DETAILS ON SHEET A3.6 - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
2. 4' x 8' HARDIE PANEL, SMOOTH FINISH, COLOR: SW 1015 SKYLINE STEEL. REFER TO SHEET A3.6 FOR HARDIE PANEL DETAILS
3. 3 1/2" HARDIE TRIM, SEE HARDIE DETAIL SHEET A3.6
   COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
4. HARDIE PANEL FASCIA AND SOFFITS, COLOR: SW6992 INKWELL. REFER TO SHEET A3.6 FOR HARDIE PANEL DETAILS. ALLURA SIDING ACCEPTABLE ALTERNATE TO HARDIE BOARD.
5. INSULATED DARK BRONZE ALUMINUM WINDOWS WITH DUAL PANE TEMPERED GLASS
6. QUIKSERVE WINDOW - COLOR: DARK BRONZE; REFER TO WINDOW SCHEDULE SHEET A5.1.
7. AWNING BY COOL PLANET - FABRIC: SUNBRELLA, COLOR: LOGO RED. AWNINGS ARE UNDER SEPARATE SUBMITTAL AND PERMIT.
8. INSULATED HOLLOW METAL DOOR AND FRAME - COLOR: SHERWIN WILLIAMS SW6992 INKWELL EGGSHELL FINISH
9. PEEP HOLE, BY DOOR MANUFACTURER
10. DOOR BELL
11. 20 GAUGE METAL PARAPET CAP - COLOR: MATTE BLACK
12. LINE OF ROOF BEYOND
13. ROOF TOP UNIT BEYOND, REFER TO MECHANICAL DRAWINGS
14. ROOF SCUPPER AND DOWNSPOUT, REFER TO DETAIL 8/A3.4
15. CONTRACTOR SHALL PROVIDE A BLACK MAILBOX APPROXIMATELY 15 INCHES WIDE BY 6 INCHES TALL. MAILBOX SHALL BE EQUAL TO GIBRALTAR WALL MOUNTED METAL BOX
16. WALL MOUNTED LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
17. LED LIGHT BAND, REFER TO ELECTRICAL DRAWINGS
18. ELECTRICAL SERVICE, REFER TO ELECTRICAL DRAWINGS. PAINT TO MATCH EXTERIOR FINISH.
19. ELECTRICAL OUTLET, SEE ELECTRICAL DRAWINGS
20. HOSE BIBB, SEE PLUMBING DRAWINGS
21. SIGNAGE BY OTHERS, UNDER A SEPARATE PERMIT
22. SEE DETAIL 7/A3.4 FOR DOWNSPOUT TERMINATION & SPLASH BLOCK
23. SPANDREL GLASS; REFER TO WINDOW SCHEDULE
24. SECURITY CAMERA BY OTHERS
25. OWNER PROVIDED SIGN PANELS.
26. APPROVED SET OF NUMERALS, MINIMUM 4" HIGH WITH A STROKE WIDTH NOT LESS THAN 1/2 INCH, SHALL BE PLACED ON THE BUILDING. VERIFY SIZE AND REQUIREMENTS WITH FIRE MARSHAL.
27. KNOX BOX AT 60" A.F.F. AS REQUIRED BY FIRE DEPARTMENT.
28. NOT USED.
29. SCHIER GREASE TRAP PUMP-OUT PORT PP3, PAINT TO MATCH EXTERIOR FINISH.

APPROVED ALTERNATE FINISHES

ALLURA SIDING - TRADITIONAL CEDAR 6-1/4" WIDTH
ALLURA PANEL - SMOOTH 4' x 8' PANELS
ALLURA TRIM - SIZE 5/4, 3" WIDTH 1" THICK

REGISTRATION SEAL
NORTH CAROLINA
FREDERICK J. GOGLIA
6408
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FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

EST. 1998 SCOOTER'S COFFEE

REV	DATE	DESCRIPTION	BY
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TITLE:

EXTERIOR ELEVATIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

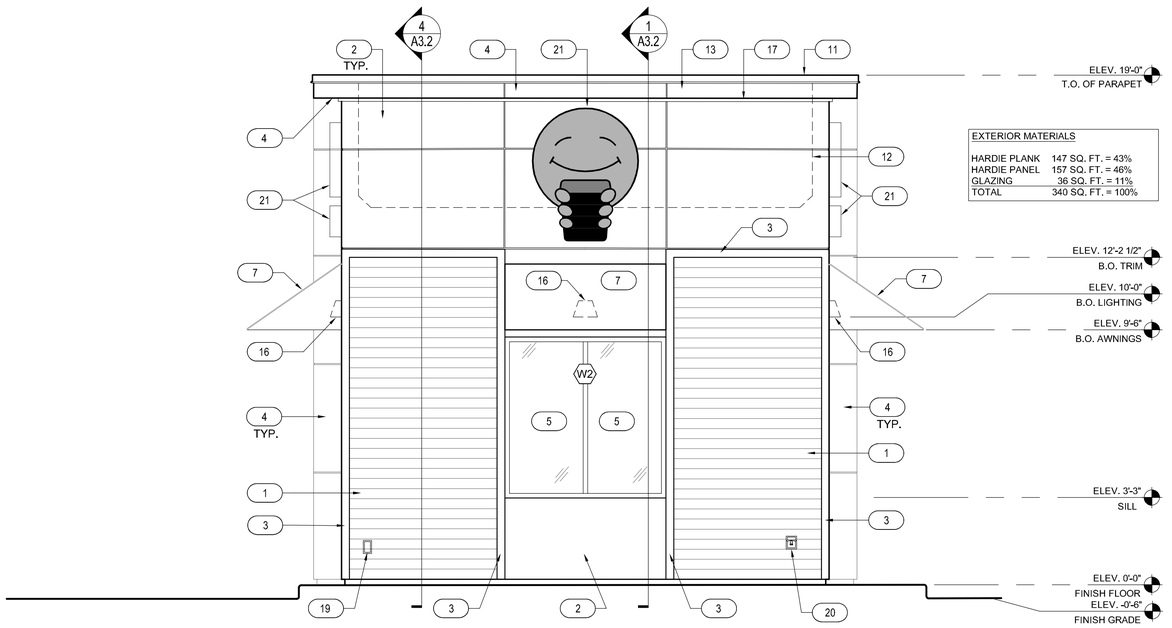
PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

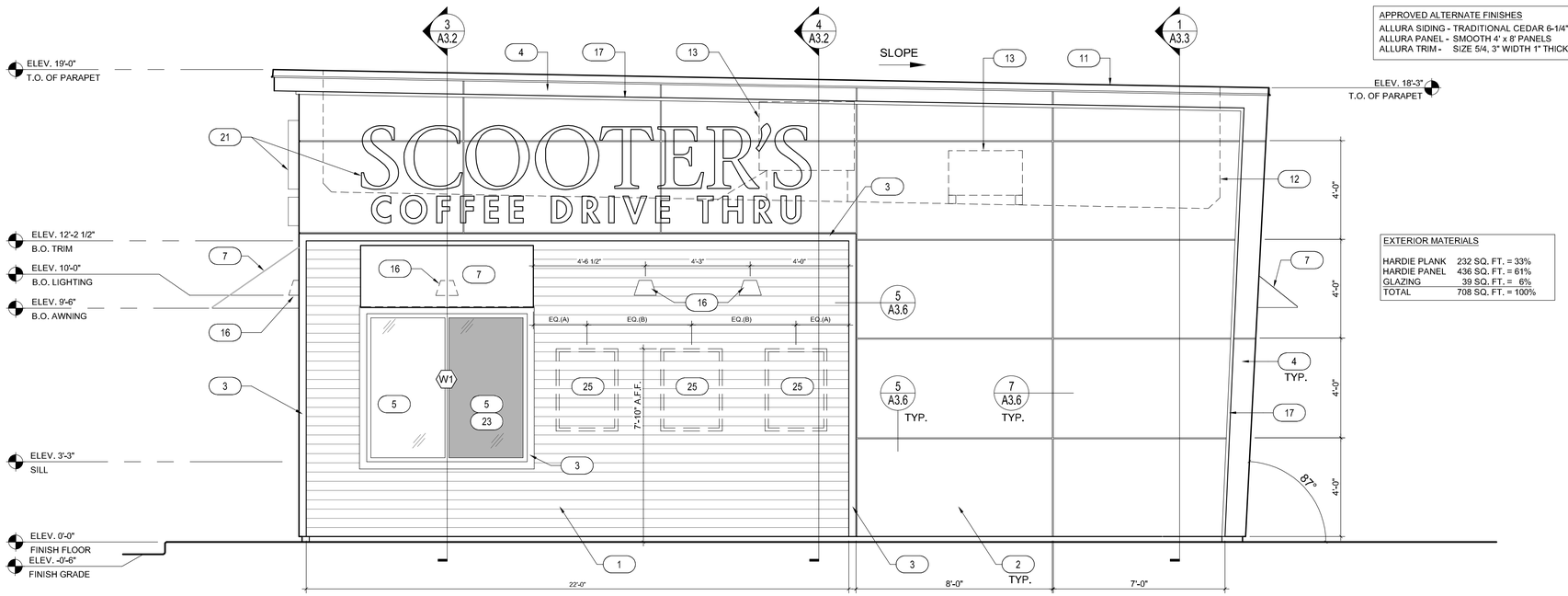
SHEET NO.

A2.1



2 NORTH ELEVATION

SCALE: 3/8" = 1'-0"



1 WEST ELEVATION

SCALE: 3/8" = 1'-0"

KEYNOTES

X

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10. DOOR BELL
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13. ROOF TOP UNIT BEYOND, REFER TO MECHANICAL DRAWINGS
14. ROOF SCUPPER AND DOWNSPOUT, REFER TO DETAIL 8/A3.4
15. CONTRACTOR SHALL PROVIDE A BLACK MAILBOX APPROXIMATELY 15 INCHES WIDE BY 6 INCHES TALL. MAILBOX SHALL BE EQUAL TO GIBRALTAR WALL MOUNTED METAL BOX
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19. ELECTRICAL OUTLET, SEE ELECTRICAL DRAWINGS
20. HOSE BIBB, SEE PLUMBING DRAWINGS
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25. OWNER PROVIDED SIGN PANELS.
26. APPROVED SET OF NUMERALS, MINIMUM 4" HIGH WITH A STROKE WIDTH NOT LESS THAN 1/2 INCH, SHALL BE PLACED ON THE BUILDING. VERIFY SIZE AND REQUIREMENTS WITH FIRE MARSHAL.
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28. NOT USED.
29. SCHIER GREASE TRAP PUMP-OUT PORT PP3, PAINT TO MATCH EXTERIOR FINISH.

APPROVED ALTERNATE FINISHES
ALLURA SIDING - TRADITIONAL CEDAR 6-1/4" WIDTH
ALLURA PANEL - SMOOTH 4' x 8' PANELS
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EXTERIOR ELEVATIONS

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ERWIN, NC 28339

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SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
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DRAWN BY:
AGG

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SW

SHEET NO.

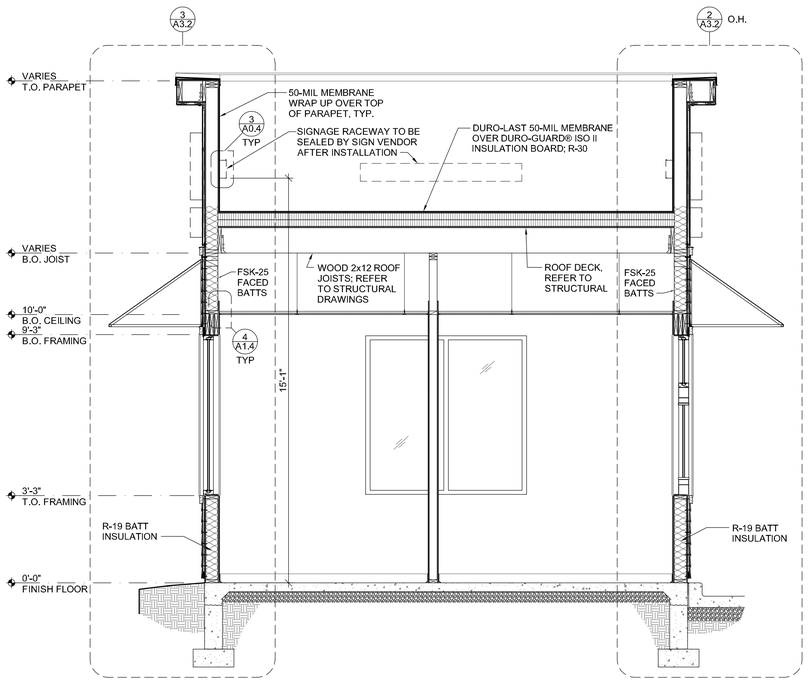
A2.2

GENERAL NOTES

A. REFER TO SHEET A1.2 FOR FINISH DESIGNATION

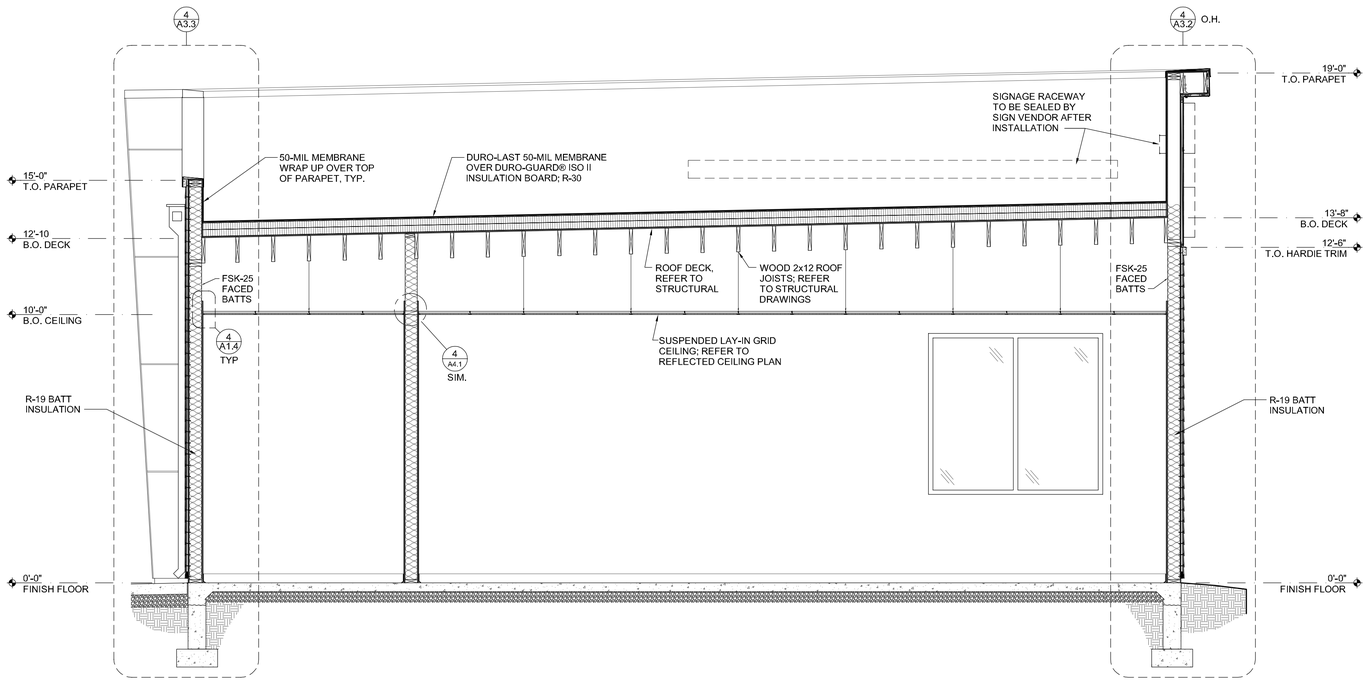
B. REFER TO SHEET A1.3 FOR EQUIPMENT INFORMATION

C. REFER TO SHEET G0.7 & G0.8 FOR BUILDING ENVELOPE REQUIREMENTS; BUILDING ENVELOPE MINIMUMS MUST BE MET



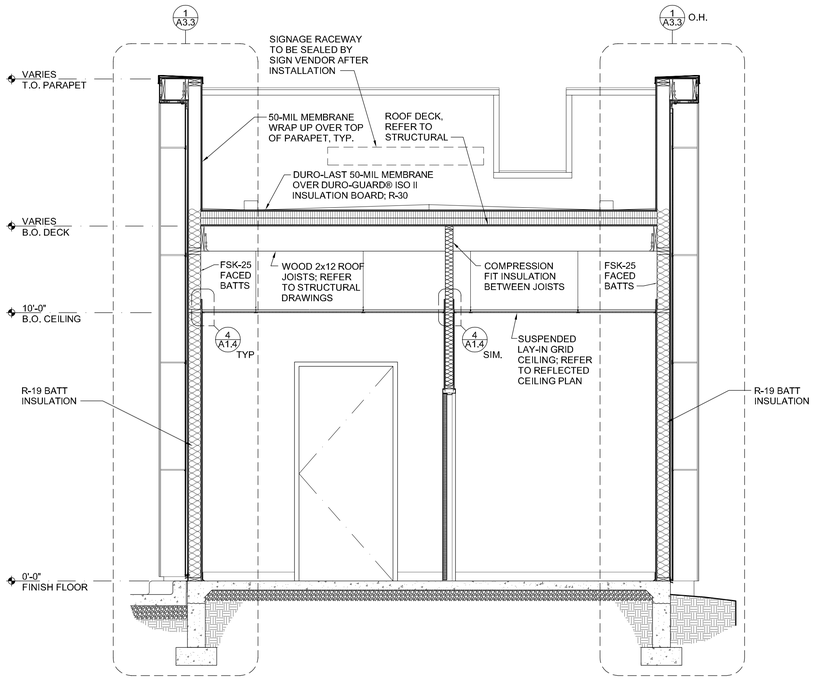
4 BUILDING SECTION AT FRONT WALL

SCALE: 3/8" = 1'-0"



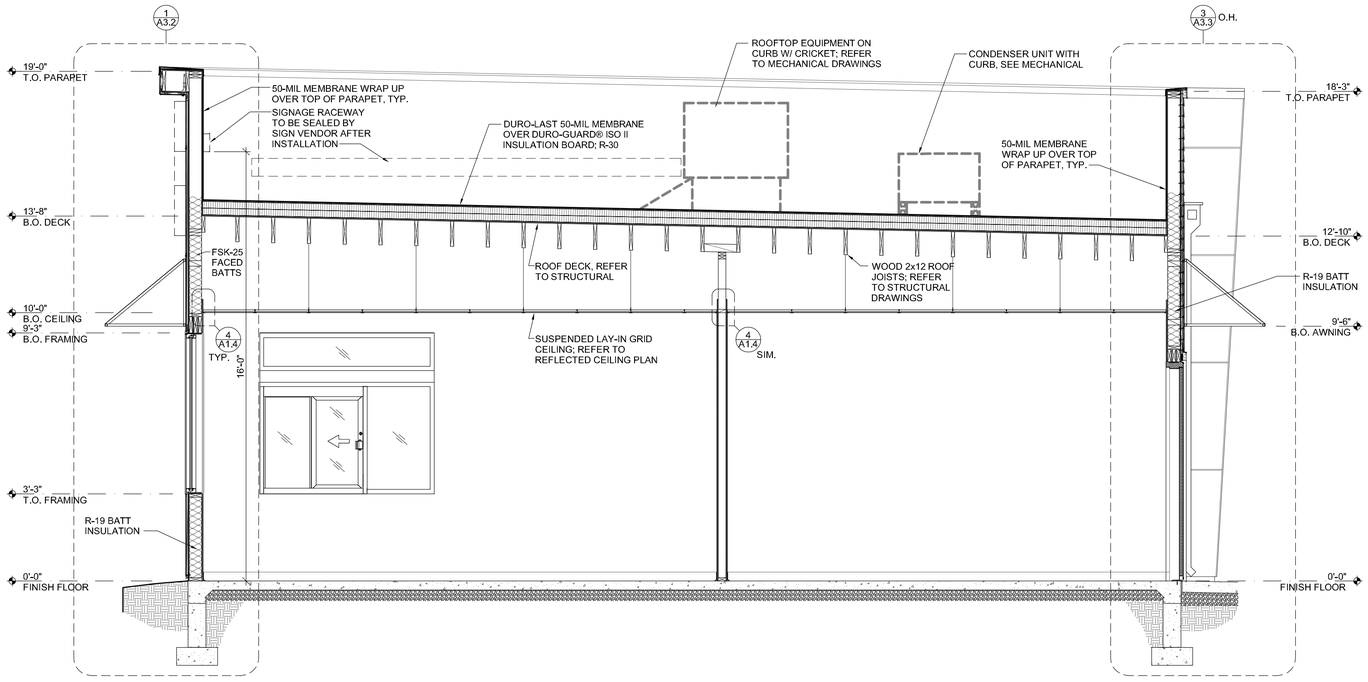
3 BUILDING SECTION AT SIDE WALL

SCALE: 3/8" = 1'-0"



2 BUILDING SECTION AT REAR WALL

SCALE: 3/8" = 1'-0"



1 BUILDING SECTION AT DRIVE-THRU

SCALE: 3/8" = 1'-0"

REGISTRATION SEAL
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PROFESSIONAL SEAL
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BUILDING SECTIONS

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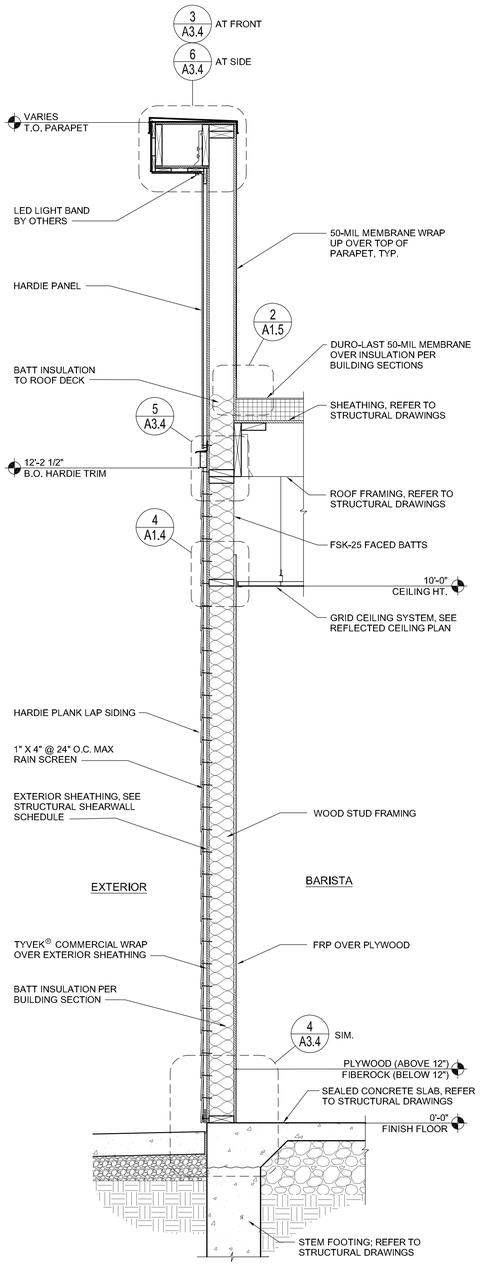
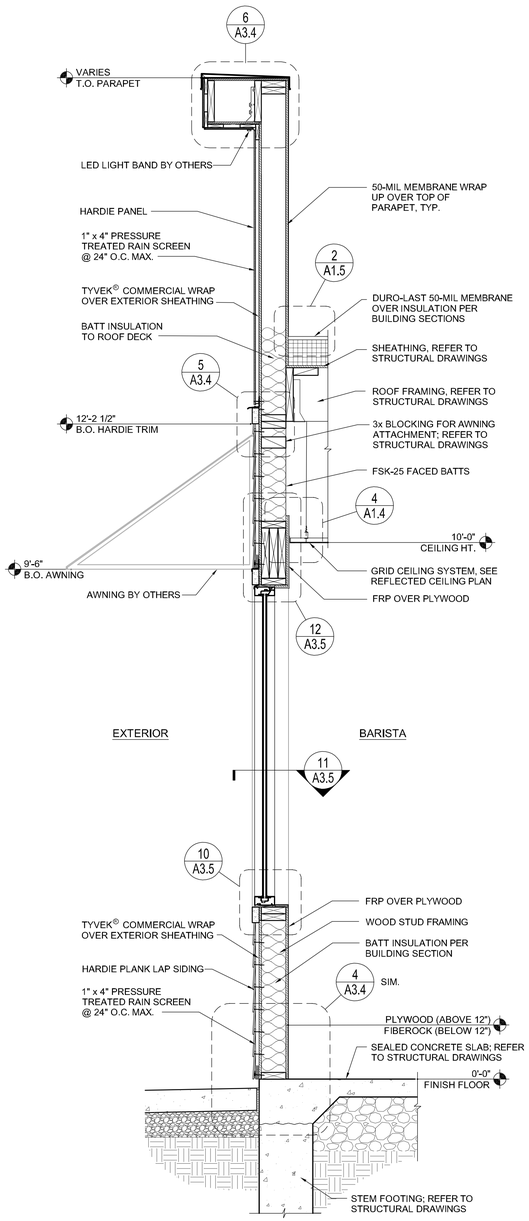


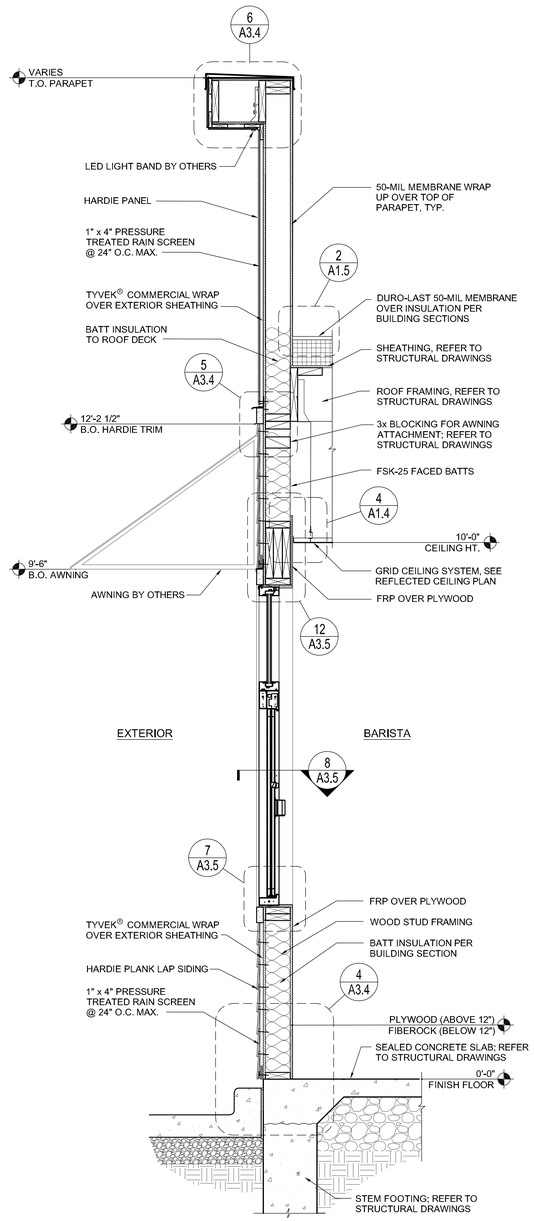
4 WALL SECTION @ SIDING TRANSITION

SCALE: 3/4" = 1'-0"



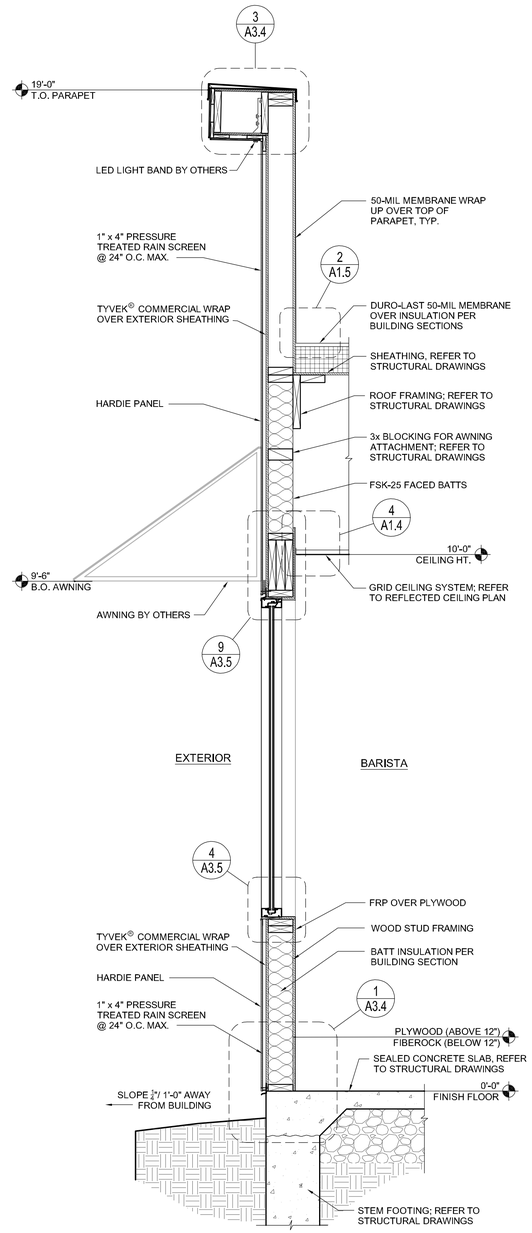
3 WALL SECTION @ SIDE WINDOW

SCALE: 3/4" = 1'-0"



2 WALL SECTION @ DRIVE-THRU WINDOW

SCALE: 3/4" = 1'-0"



1 WALL SECTION @ FRONT WINDOW

SCALE: 3/4" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH: (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:

WALL SECTIONS

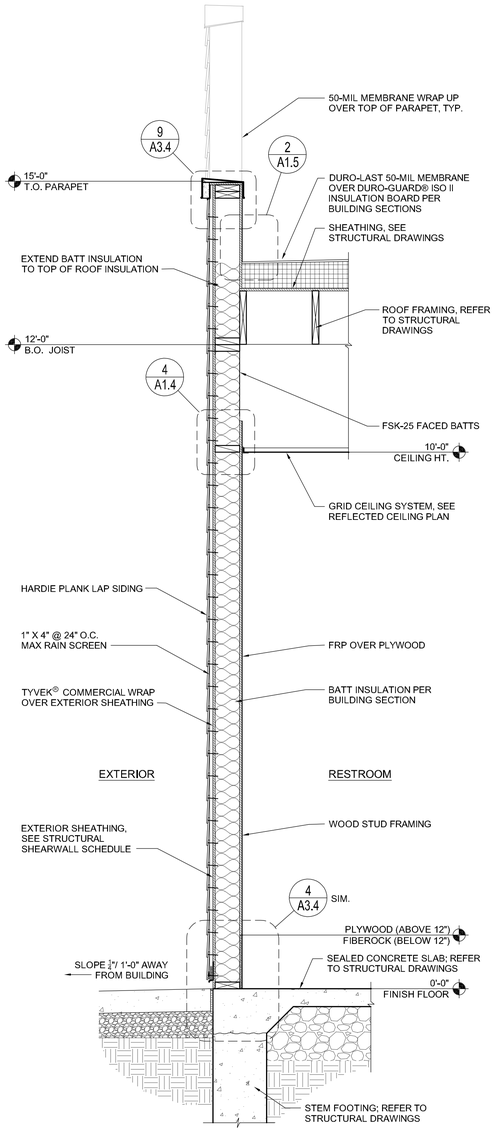
PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
AGG
CHECKED BY:
SW

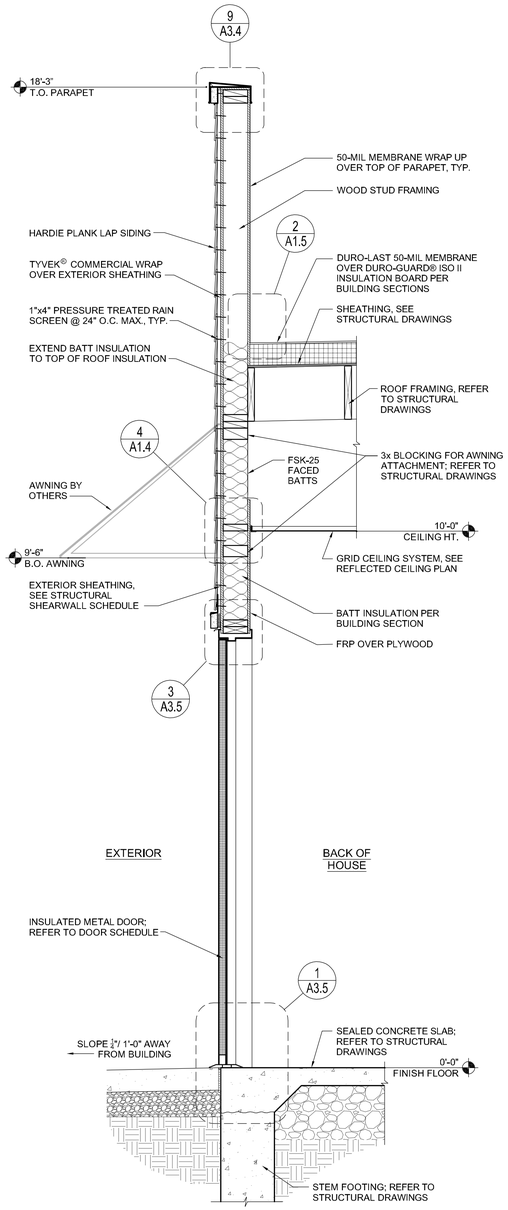
SHEET NO.

A3.2



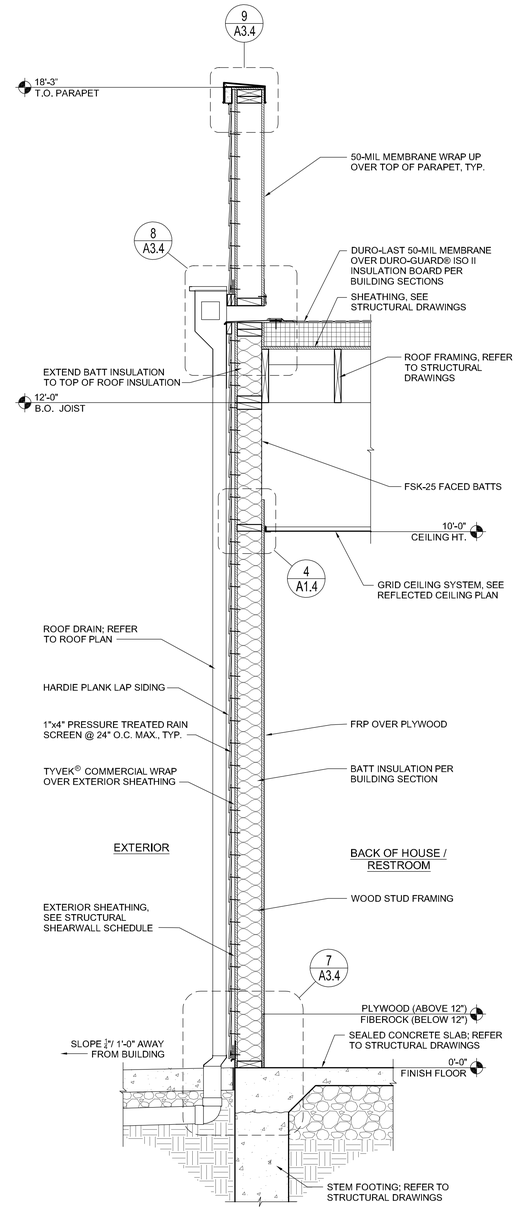
4 WALL SECTION @ ROOF ACCESS

SCALE: 3/4" = 1'-0"



3 WALL SECTION @ DOOR

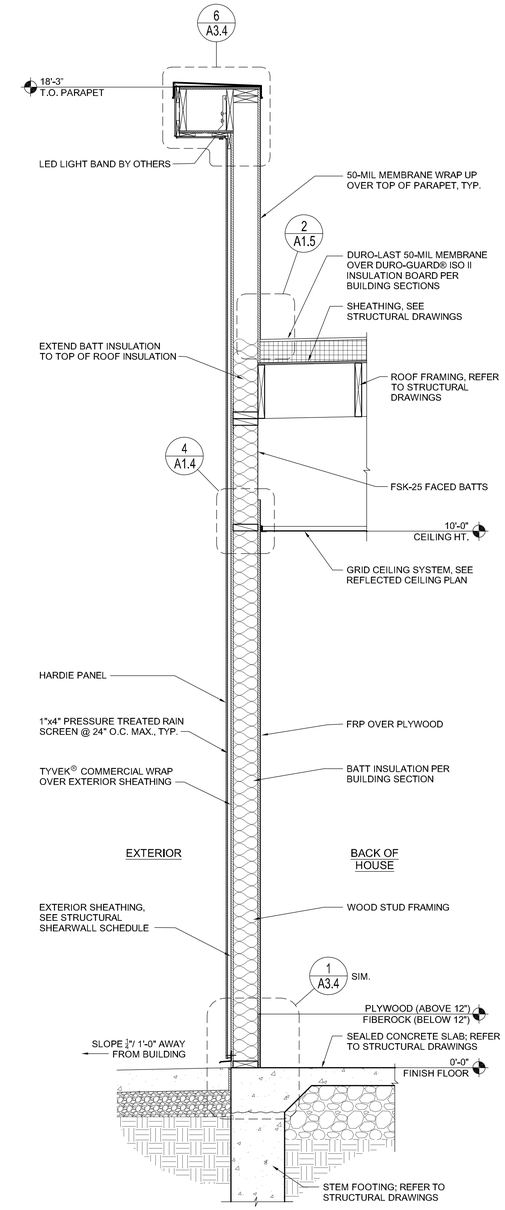
SCALE: 3/4" = 1'-0"



NOTE: G.C. TO COORDINATE ROOF DRAIN / DOWNSPOUT CONNECTION AT THE BASE OF BUILDING, WITH CIVIL ENGINEER'S DRAWINGS.

2 WALL SECTION @ DOWNSPOUT

SCALE: 3/4" = 1'-0"



1 WALL SECTION @ HARDIE-PANELS

SCALE: 3/4" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

WALL SECTIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

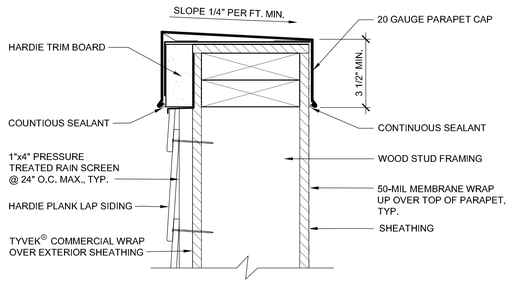
ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

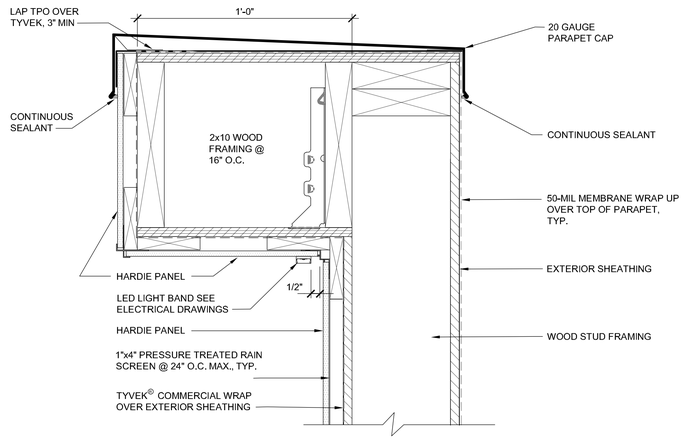
CHECKED BY:
SW

SHEET NO.
A3.3



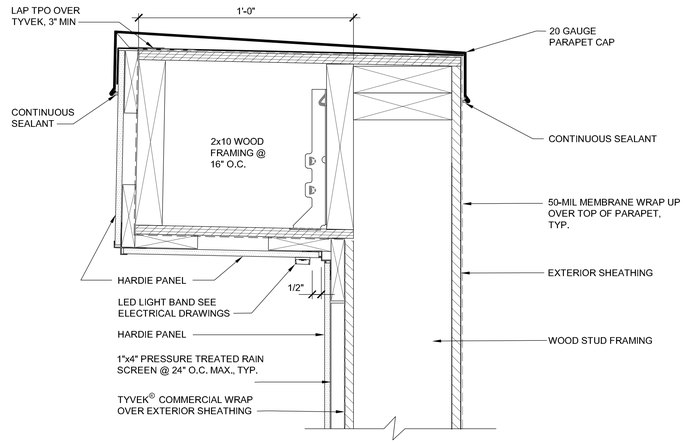
9 DETAIL @ PARAPET & HARDIE-PLANK

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



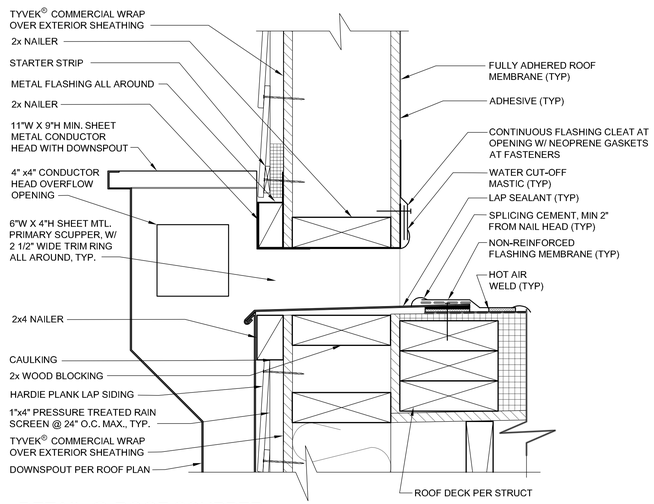
6 DETAIL @ SIDE PARAPET & HARDIE-PANEL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



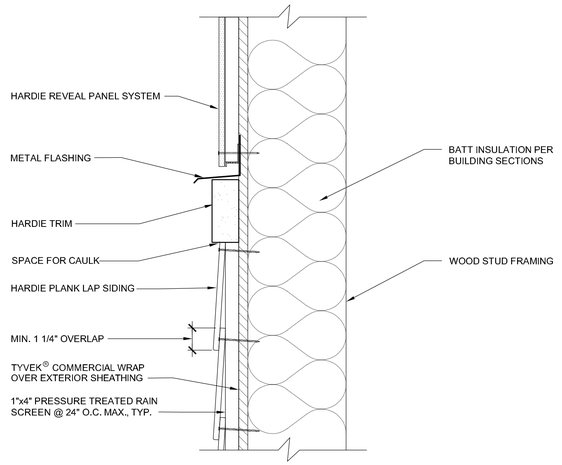
3 DETAIL @ FRONT PARAPET & HARDI-PANEL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



8 DETAIL @ ROOF SCUPPER

SCALE: 3" = 1'-0"

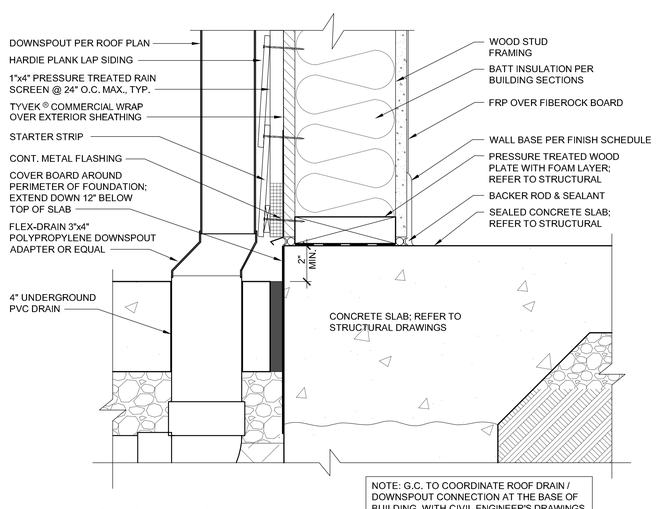


5 DETAIL @ HARDIE-PANEL & HARDIE-TRIM TRANSITION

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

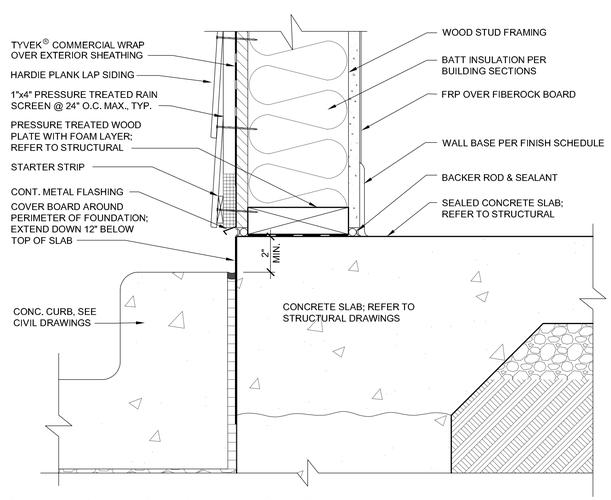
2 NOT USED

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



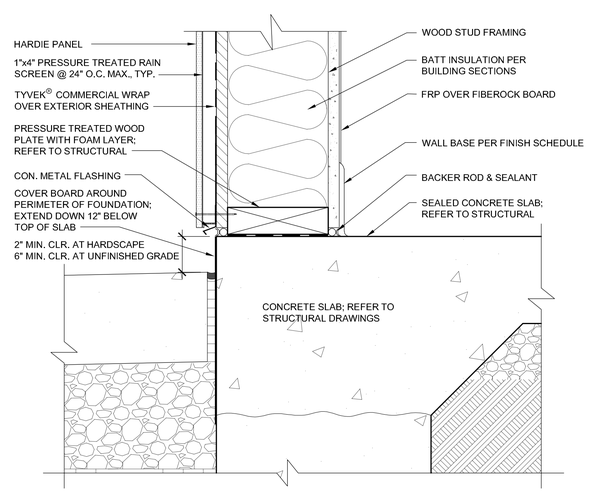
7 DETAIL @ DOWNSPOUT

SCALE: 3" = 1'-0"



4 DETAIL @ HARDIE-PLANK & CURB

SCALE: 3" = 1'-0"



1 DETAIL @ HARDIE-PANEL & FINISH GRADE

SCALE: 3" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

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SCOOTER'S COFFEE EST. 1998

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TITLE:

WALL DETAILS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
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MAY 2025

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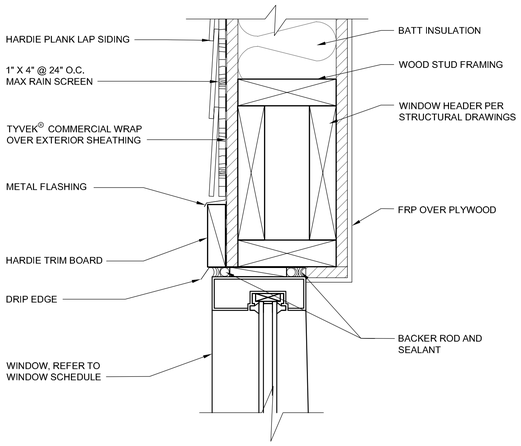
DRAWN BY:
AGG

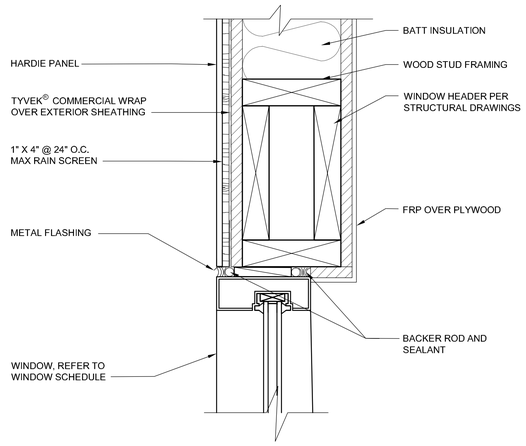
CHECKED BY:
SW

SHEET NO.
A3.4



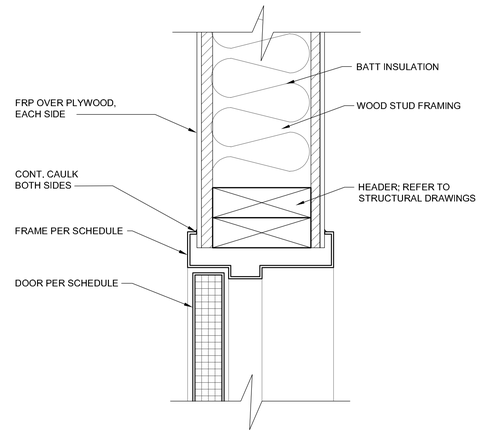
12 DETAIL AT WINDOW HEAD

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



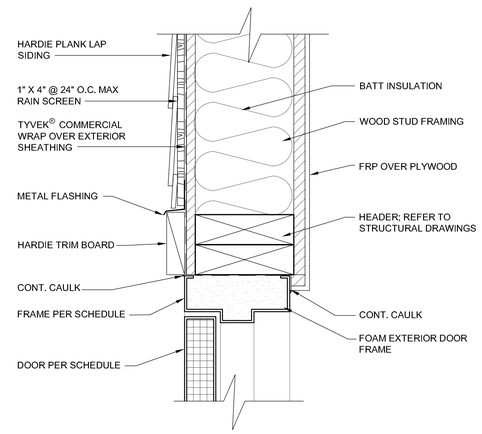
9 DETAIL AT WINDOW HEAD

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



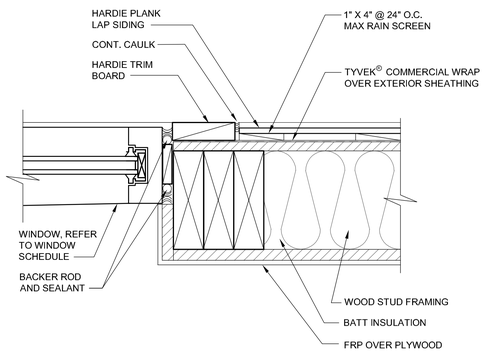
6 DETAIL AT INTERIOR DOOR HEADER

SCALE: 3" = 1'-0"



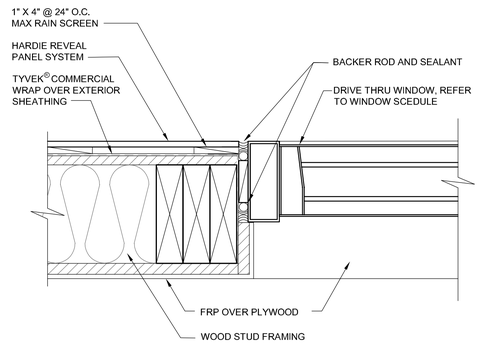
3 DETAIL AT EXTERIOR DOOR HEADER

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



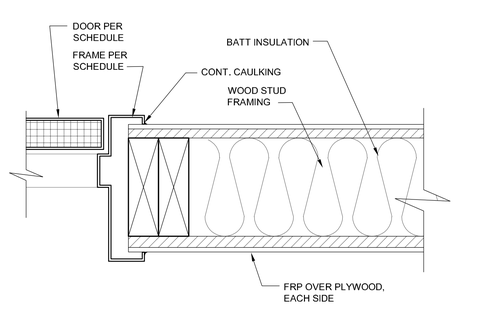
11 DETAIL AT WINDOW JAMB

SCALE: 3" = 1'-0"



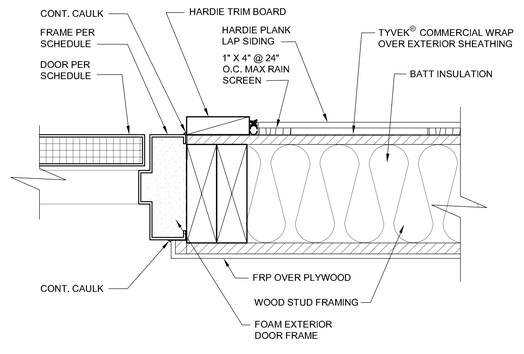
8 DETAIL AT WINDOW JAMB

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



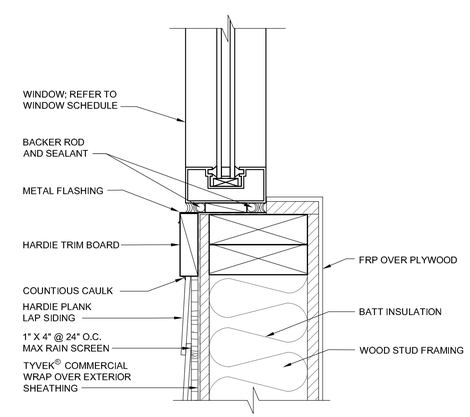
5 DETAIL AT INTERIOR DOOR JAMB

SCALE: 3" = 1'-0"



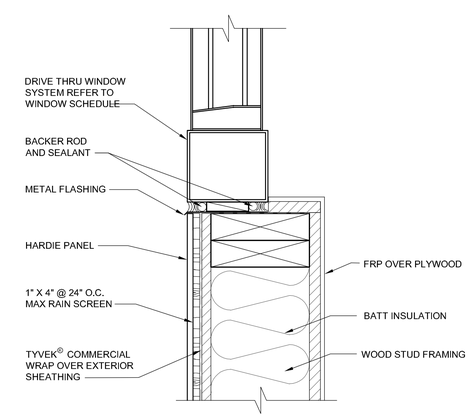
2 DETAIL AT EXTERIOR DOOR JAMB

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



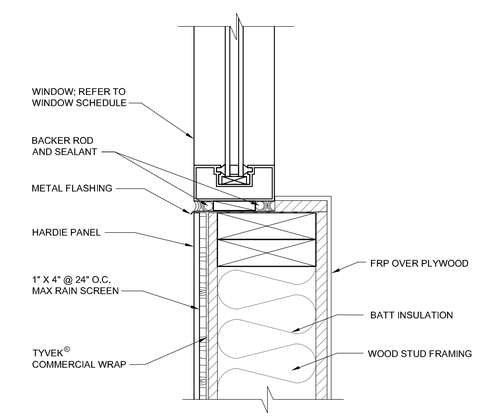
10 DETAIL AT WINDOW SILL

SCALE: 3" = 1'-0"



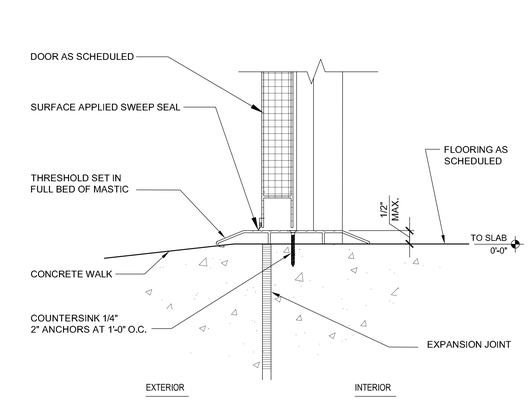
7 DETAIL AT SILL DRIVE-THRU

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



4 DETAIL AT WINDOW SILL

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS



1 DETAIL AT DOOR THRESHOLD

SCALE: 3" = 1'-0" G.C. VERIFY DETAIL PER MANUFACTURES INSTRUCTIONS

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300
www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

DOOR & WINDOW DETAILS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

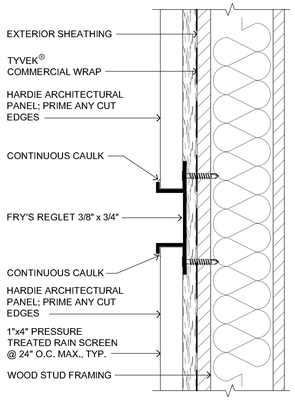
ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

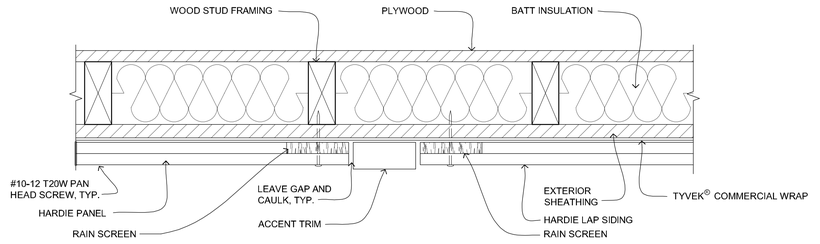
CHECKED BY:
SW

SHEET NO.
A3.5



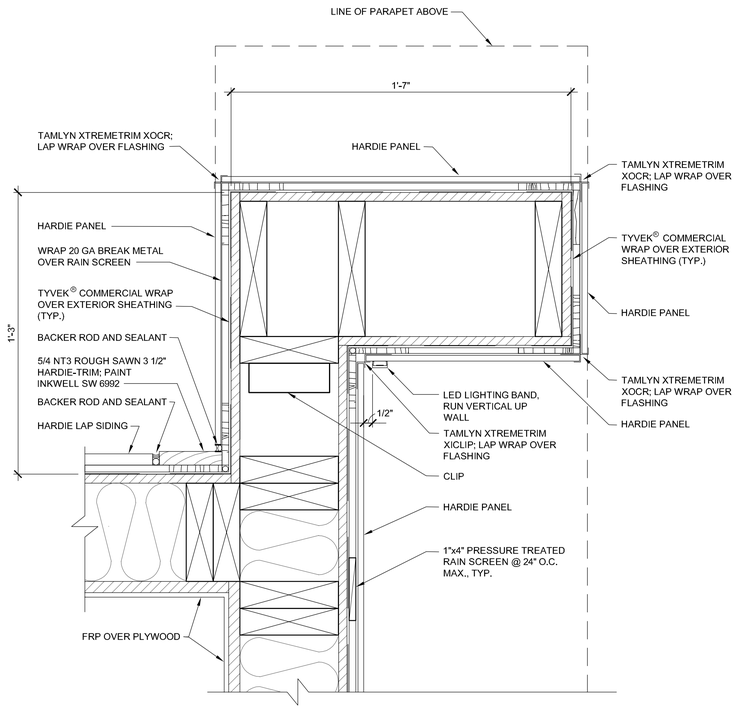
7 REVEAL AT HARDIE BOARD

SCALE: 3" = 1'-0"



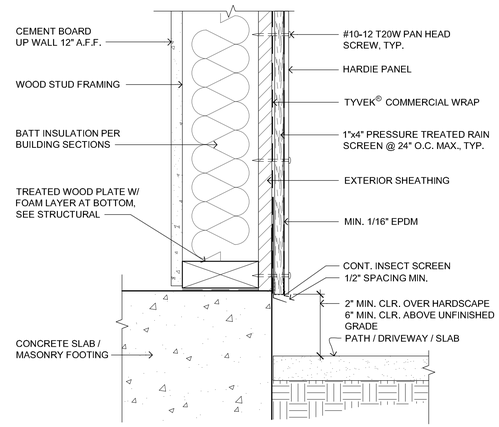
5 VERTICAL HARDIE TRIM

SCALE: 3" = 1'-0"



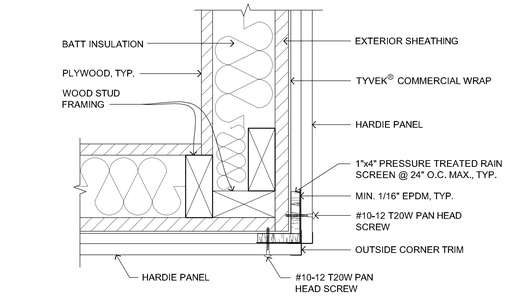
6 BREAK METAL TO HARDIE BOARD TRANSITION

SCALE: 3" = 1'-0"



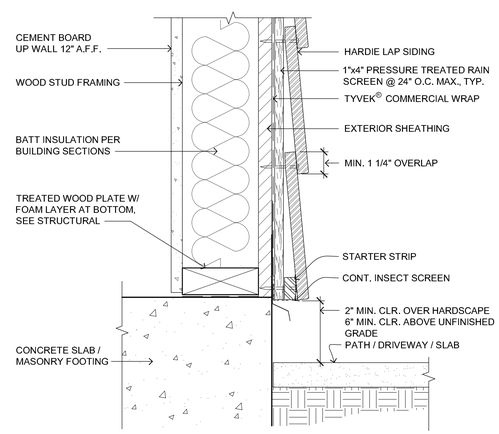
4 HARDSCAPE CLEARANCES

SCALE: 1/2" = 1'-0"



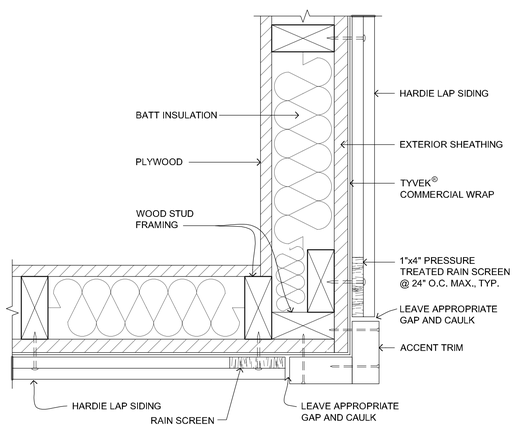
2 HARDIE PANEL REVEAL SYS. AT OUTSIDE CORNER

SCALE: 3" = 1'-0"



3 HARDSCAPE CLEARANCES

SCALE: 1/2" = 1'-0"



1 HARDIE LAP SIDING AT OUTSIDE CORNER

SCALE: 1'-0" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
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PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

EXTERIOR SIDING DETAILS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
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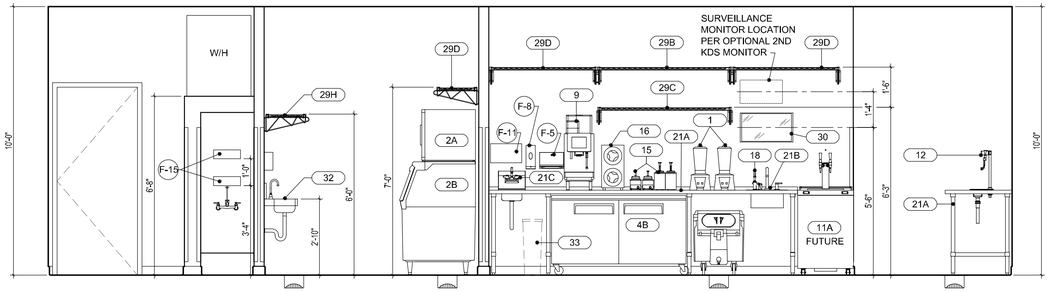
DRAWN BY:
AGG
CHECKED BY:
SW

SHEET NO.

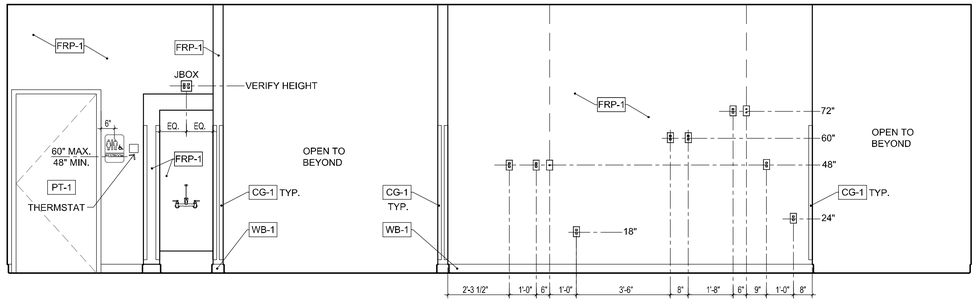
A3.6



2B INTERIOR ELEVATION AT BLENDER LINE

SCALE: 3/8" = 1'-0"

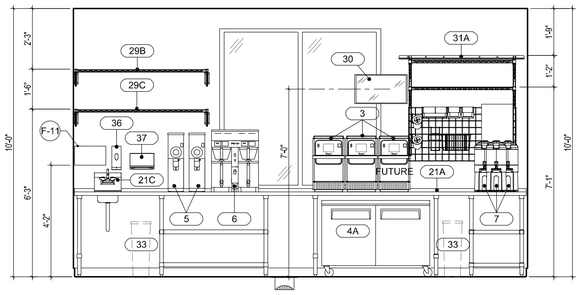
NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION
SEE FIXTURE SCHEDULE SHEET A4.3



2A INTERIOR ELEVATION AT BLENDER LINE

SCALE: 3/8" = 1'-0"

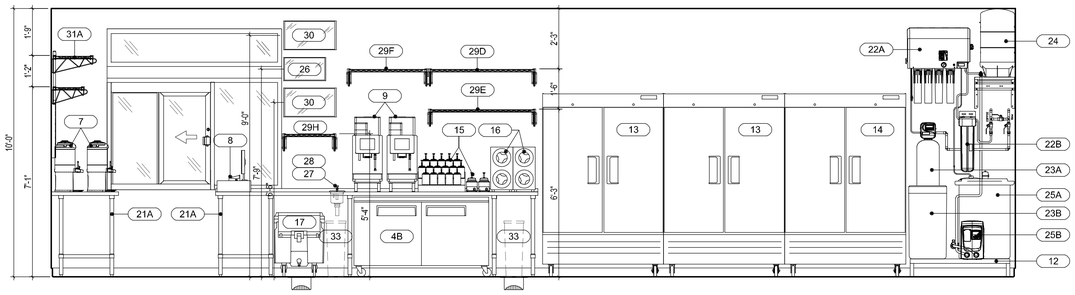
NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



3B EQUIPMENT ELEVATION AT COFFEE LINE

SCALE: 3/8" = 1'-0"

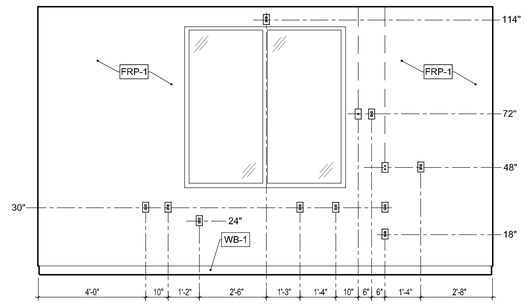
NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION
SEE FIXTURE SCHEDULE SHEET A4.3



1B EQUIPMENT ELEVATION AT ESPRESSO LINE

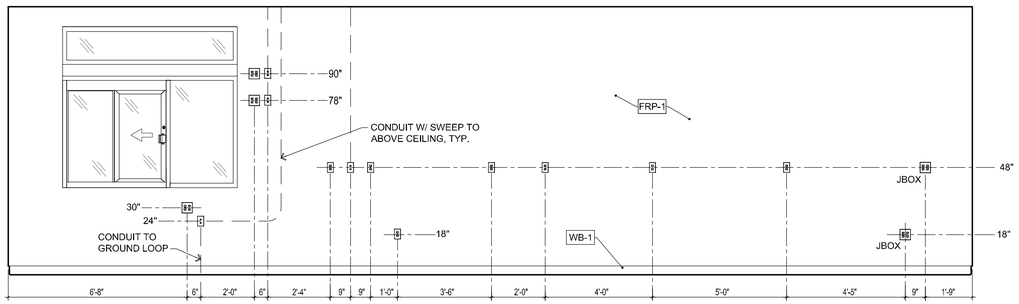
SCALE: 3/8" = 1'-0"

NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



3A INTERIOR ELEVATION AT COFFEE LINE

SCALE: 3/8" = 1'-0"



1A INTERIOR ELEVATION AT ESPRESSO LINE

SCALE: 3/8" = 1'-0"

REGISTRATION SEAL

NORTH CAROLINA
REGISTERED
SEAL
6408
ARCHITECT
FREDERICK J. GOGLIA

4/9/26

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TITLE:

INTERIOR ELEVATIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

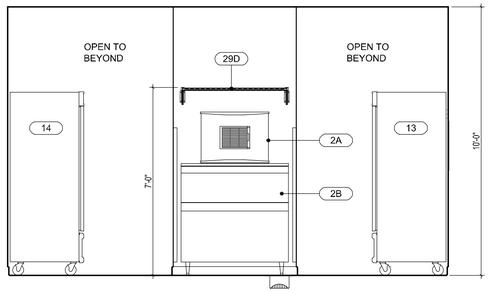
PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

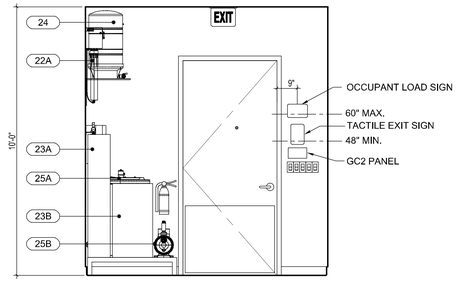
SHEET NO.

A4.1



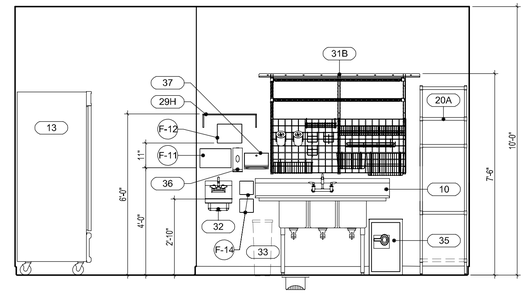
5B EQUIPMENT ELEVATION AT ICE MACHINE

SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



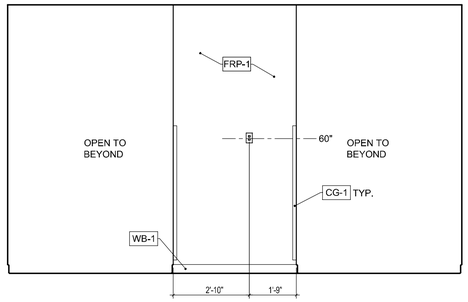
4B EQUIPMENT ELEVATION AT REAR DOOR

SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



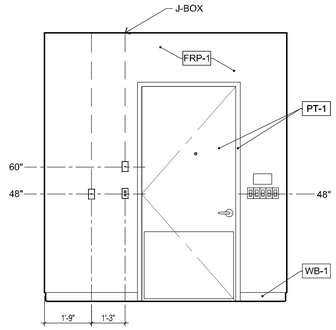
2B EQUIPMENT ELEVATION AT 3-COMP SINK

SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION
SEE FIXTURE SCHEDULE SHEET A4.3



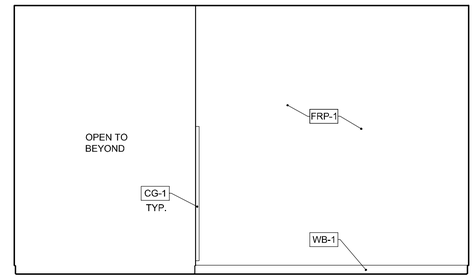
5A INTERIOR ELEVATION AT ICE MACHINE

SCALE: 3/8" = 1'-0"



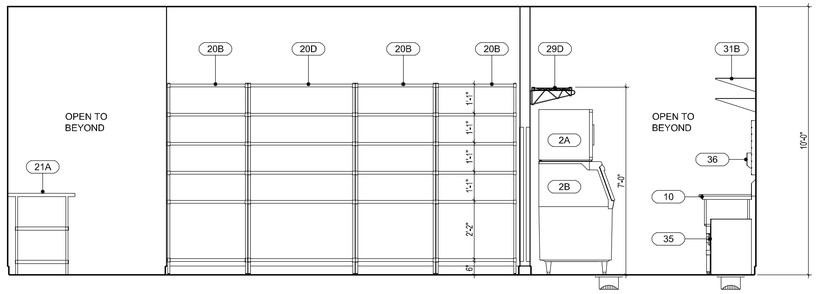
4A INTERIOR ELEVATION AT REAR DOOR

SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



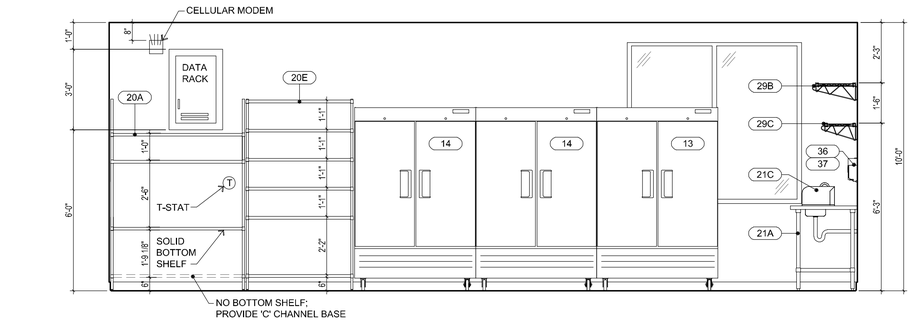
2A INTERIOR ELEVATION AT 3-COMP SINK

SCALE: 3/8" = 1'-0"



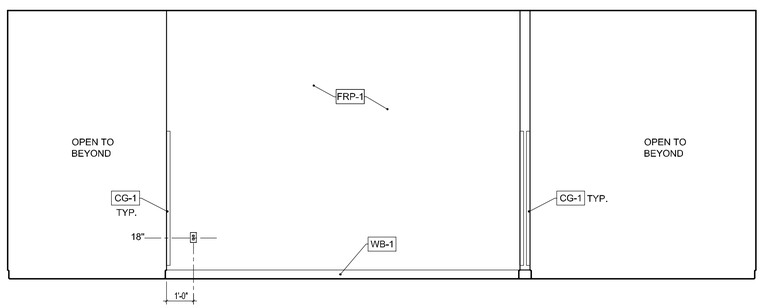
3B EQUIPMENT ELEVATION AT STORAGE RACKS

SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



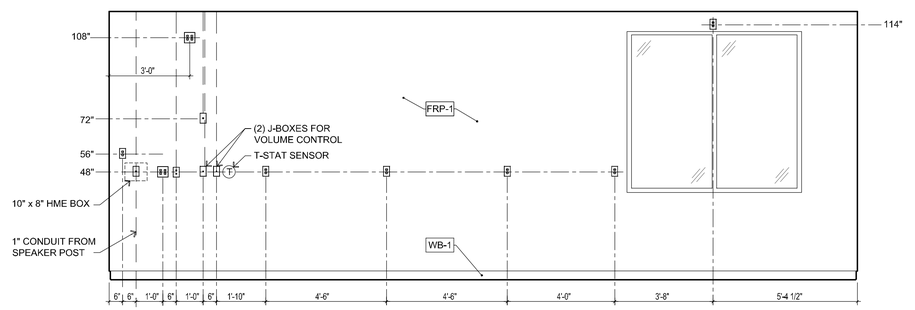
1B EQUIPMENT ELEVATION AT FREEZER LINE

SCALE: 3/8" = 1'-0" NOTE: SEE EQUIPMENT SCHEDULE, SHEET A1.3 FOR MORE INFORMATION



3A INTERIOR ELEVATION AT STORAGE RACKS

SCALE: 3/8" = 1'-0"



1A INTERIOR ELEVATION AT FREEZER LINE

SCALE: 3/8" = 1'-0"

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1930 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:
INTERIOR ELEVATIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
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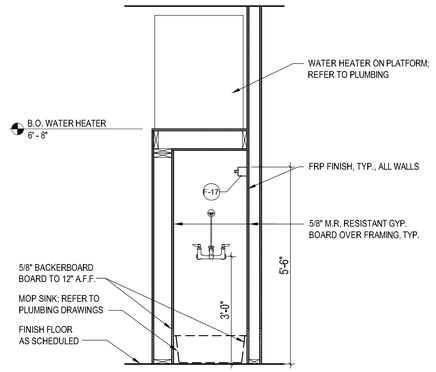
SHEET NO.
A4.2

ACCESSORY FIXTURES

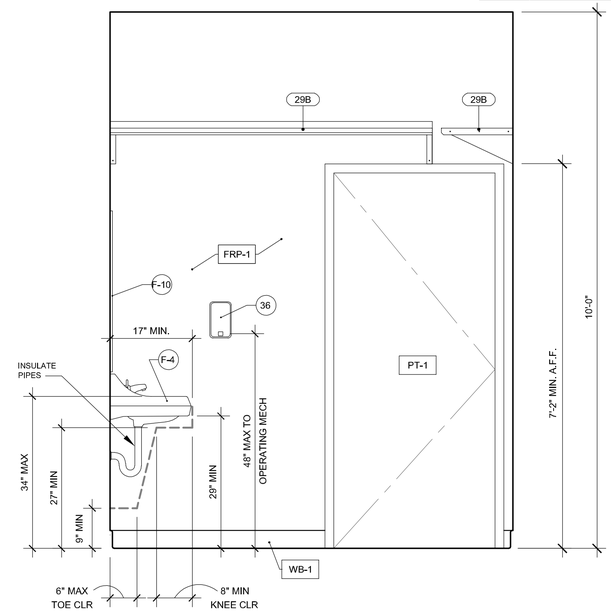
EQ. NO.	ITEM NAME	QTY	MANUFACTURER	MODEL #	REMARKS#
F-1	36" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x36	
F-2	42" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x42	
F-3	18" STAINLESS STEEL GRAB BAR	1	BOBRICK	#B-5806x18	
F-4	WALL HUNG LAVATORY	1	REFER TO PLUMBING DRAWINGS		
F-5	DIVERSEY RTD RACK	2	OWNER PROVIDED		CONTRCTOR INSTALLED
F-6	TOILET TISSUE DISPENSER	1	BOBRICK	#B-2840	
F-7	WATER CLOSET	1	REFER TO PLUMBING DRAWINGS		
F-8	SEAT COVER DISPENSER	1	BOBRICK	#B-221	CONTRCTOR INSTALLED
F-9	WALL MOUNTED ACCESSIBLE SIGN	1	ULINE	S-15599BL	
F-10	WALL MOUNTED MIRROR	1	BOBRICK	#WB-165	
F-11	DIVERSEY HANDWASH CHART	3	OWNER PROVIDED		CONTRCTOR INSTALLED
F-12	DIVERSEY OPTIFILL CHART	1	OWNER PROVIDED		CONTRCTOR INSTALLED
F-13	DIVERSEY RTD CHART	1	OWNER PROVIDED		CONTRCTOR INSTALLED
F-14	DIVERSEY OPTIFILL RACK	2	OWNER PROVIDED		CONTRCTOR INSTALLED
36	SOAP DISPENSER	3	BOBRICK	#B-2111	CONTRCTOR INSTALLED
37	PAPER TOWEL DISPENSER	3	BOBRICK	#B-2621	CONTRCTOR INSTALLED
38	MOP & BROOM HOLDER	1	BOBRICK	#B-223	CONTRCTOR INSTALLED

GENERAL NOTES

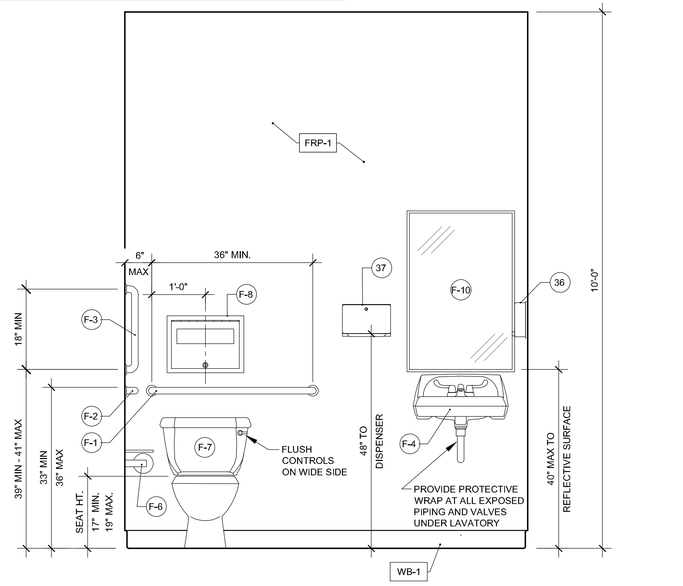
A. SEE SHEET G0.4 FOR FURTHER ACCESSIBILITY INFORMATION
B. SEE FINISH SCHEDULE SHEET A1.2 FOR FINISHES
C. SEE PLUMBING PLANS FOR ADDITIONAL FIXTURE INFORMATION
D. DIMENSIONS NOTED ON THIS PLAN ARE TO FINISH SURFACE U.N.O.



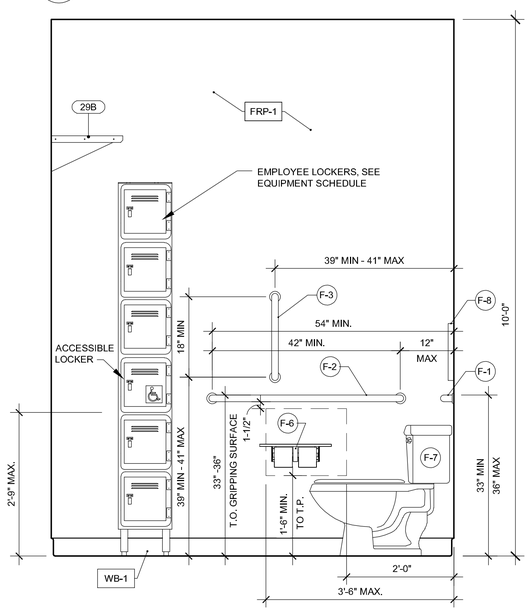
6 WATER HEATER / MOP SINK
SCALE: NTS



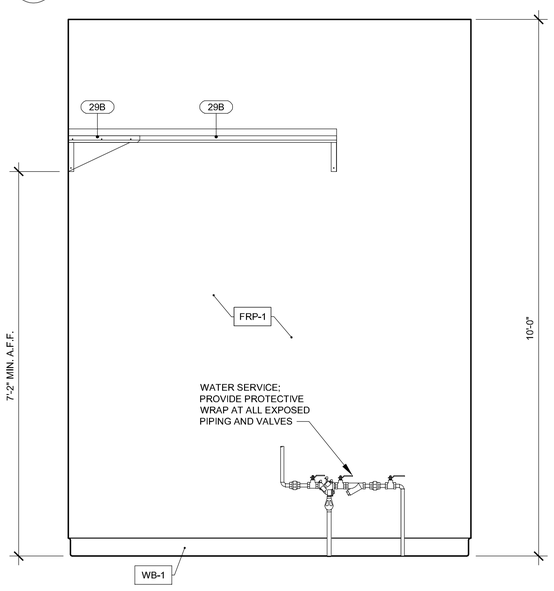
5 RESTROOM ELEVATION
SCALE: 3/4" = 1'-0"



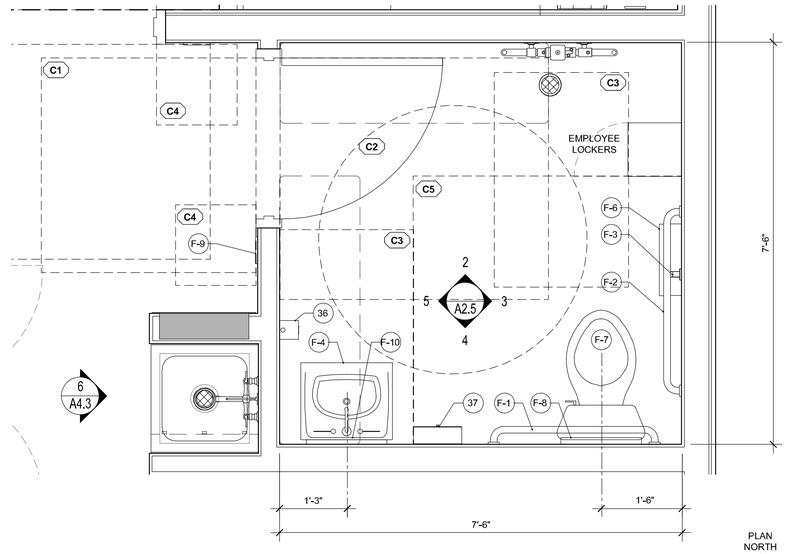
4 RESTROOM ELEVATION
SCALE: 3/4" = 1'-0"



3 RESTROOM ELEVATION
SCALE: 3/4" = 1'-0"



2 RESTROOM ELEVATION
SCALE: 3/4 = 1'-0"



1 ENLARGED RESTROOM PLAN
SCALE: 3/4" = 1'-0"

PLAN NORTH

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
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SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:
ENLARGED RESTROOM PLAN & ELEVATIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

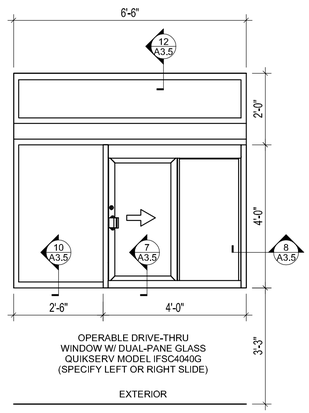
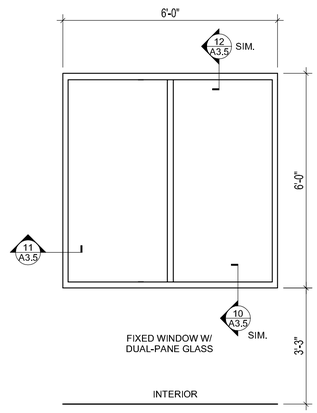
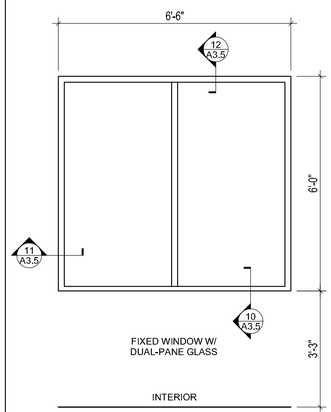
ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

SHEET NO.
A4.3

W3	W2	W1	WINDOW TYPE
 OPERABLE DRIVE-THRU WINDOW W/ DUAL-PANE GLASS QUIKSERV MODEL IFSC4040G (SPECIFY LEFT OR RIGHT SLIDE) EXTERIOR	 FIXED WINDOW W/ DUAL-PANE GLASS INTERIOR	 FIXED WINDOW W/ DUAL-PANE GLASS INTERIOR	
DARK BRONZE	AL / DARK BRONZE	AL / DARK BRONZE	MATERIAL / FINISH
1" INSULATED DUAL PANE TEMPERED CLEAR GLASS	1" INSULATED DUAL PANE TEMPERED CLEAR GLASS	1" INSULATED DUAL PANE TEMPERED CLEAR GLASS	GLASS
6'-6" W X 6'-0" H	6'-0" W X 6'-0" H	6'-6" W X 6'-0" H	R.O. DIMENSIONS
CONTRACTOR TO INSTALL 35% WINDOW TINT FILM ON INTERIOR SURFACE	CONTRACTOR TO INSTALL 35% WINDOW TINT FILM ON INTERIOR SURFACE OR SPANDREL GLASS AS NOTED ON THE ELEVATIONS	SPANDREL GLASS BEHIND REACH-IN REFRIGERATOR AND AS NOTED ON ELEVATIONS	NOTES

NOTE:
CONTRACTOR TO REFER TO COMcheck ENVELOPE FOR SPECIFIC WINDOW REQUIREMENTS.

SCOOTER'S COFFEE
QUIKSERV NATIONAL ACCOUNT

SALES
OFFICE: 713.849.5882
EMAIL: SALES@QUIKSERV.COM
11441 BRITTMOORE PARK DR
HOUSTON, TX 77041

SERVICE & WARRANTY
WADE ARNOLD - ACCOUNT MANAGER
OFFICE: 832.305.3300
EMAIL: WARNOLD@QUIKSERV.COM

BRIAN COBLE - WARRANTY
MIKE KEMP - PARTS
PAULO RODRIGUEZ - PARTS
EMAIL: SERVICE@QUIKSERV.COM
PHONE: 713.849.5882

1 WINDOW TYPES
SCALE: NTS

REGISTRATION SEAL
NORTH CAROLINA REGISTERED SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH: (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

EST. 1998 SCOOTER'S COFFEE

REV	DATE	DESCRIPTION	BY
1			
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TITLE:
WINDOW SCHEDULE

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
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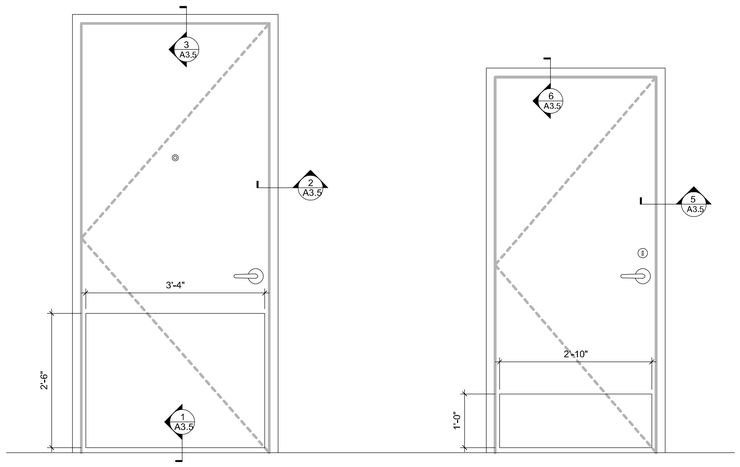


A ENTRY DOOR

B RESTROOM DOOR

2 TYPICAL DOOR ELEVATIONS

SCALE: 3/4"=1'-0"

DOOR SCHEDULE

MARK	DOOR						FRAME			HARDWARE	REMARKS & DOOR NOTES
	TYPE	WIDTH	HEIGHT	THK	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	SET	
100	A	3'-6"	8'-0"	1-3/4"	INSULATED METAL U=0.77	PAINT	-	HM	PAINT	1	KEY PLATE INSIDE FACE
101	B	3'-0"	7'-0"	1-3/4"	HM	PAINT	-	HM	PAINT	2	

HARDWARE SCHEDULE

SET NUMBER 1 - (ENTRY)

QTY.	PART	DESCRIPTION	MFGR.
1 1/2 PR.	BUTT HINGES	FULL MORTISE BB1279-450 4.5" x4.5", US26D/652, 5 KNUCKLE NON-REMOVABLE PIN	HAGER OR EQ.
1	CLOSER	LCN 1450 SURFACE MOUNTED, PUSH SIDE (INTERIOR), ALUM. FINISH (689)	LCN - EQ.
1	THRESHOLD	LOW PROFILE 2008_PK	PEMKO - EQ.
1	DOOR SWEEP	36" 225_V DOOR BOTTOM SWEEP	PEMKO - EQ.
1	WEATHER STRIP	AT PERIMETER OF DOOR OPENINGS	PEMKO - EQ.
1	VIEWER	698PB619 WIDE-ANGLE (190-200 DEGREES) AT 60" A.F.F. MAX	SCHLAGE OR EQ.
1	KICKPLATE	34" x 30" STAINLESS STEEL, PUSH SIDE ONLY	
1	DOOR HOLD OPEN	DOOR MOUNTED	
1	LOCK SET	SCHLAGE ALX53 LEVER TYPE, MECHANICAL PUSHBUTTON LOCK, SATIN CHROME FINISH	SCHLAGE ALX53

SET NUMBER 2 - (RESTROOM)

QTY.	PART	DESCRIPTION	MFGR.
1 1/2 PR.	BUTT HINGES	FULL MORTISE 4"x4" BB1191-ANSI-A2112, BRASS WITH S/S PIN, US26D	HAGER OR EQ.
1	LOCK SET	SCHLAGE ALX40 PRIVACY LEVER TYPE (626)	SCHLAGE ALX40
1	CLOSER	LCN 1450 SURFACE MOUNTED, PULL SIDE, ALUM. FINISH (689)	LCN - EQ.
1	KICKPLATE	34"X12" STAINLESS STEEL, PUSH SIDE ONLY	-
1	SILENCER	AT PERIMETER OF DOOR	PEMKO - EQ.
1	DOOR HOLD OPEN	DOOR MOUNTED	

GENERAL DOOR NOTES

1. GC TO VERIFY THAT EGRESS DOOR & HARDWARE COMPLIES WITH ACCESSIBILITY REQUIREMENTS.
2. ENTRY DOOR TO BE MARKED "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED" - TO BE MOUNTED ABOVE THE DOOR WITH 1" HIGH LETTERS, COLOR IN CONTRAST TO THE BACKGROUND.
3. ALL DOORS SHALL OPERATE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, OR PUSH PULL ACTIVATION BARS. SEE SPECIFICATIONS.
4. DOOR CLOSER, IF PRESENT MUST BE SET SO THAT IT TAKES DOOR AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO WITHIN 12 DEGREES OF LATCH.
5. EFFORTS TO OPERATE DOORS WITHIN PRESSURES ALLOWED: INTERIOR DOORS 5LBS. MAXIMUM PRESSURE TO OPERATE, FIRE DOORS 15 LBS. MAXIMUM PRESSURE TO OPERATE
6. THE WIDTH OF THE OF THE LEVEL AREA ON THE SIDE OF WHICH THE DOOR SWINGS SHALL EXTEND 24" PAST THE STRIKE EDGE OF THE DOOR FOR EXTERIOR DOORS AND 18" PAST THE STRIKE EDGE FOR INTERIOR WALLS.
7. PROVIDE DOOR BOTTOMS AND EXIT SADDLES ON ALL EXTERIOR DOORS.
8. ALL EXITS ARE TO BE OPENABLE FROM INSIDE WITHOUT THE USE OF KEY OR SPECIAL KNOWLEDGE.
9. ALL EGRESS/EXIT DOORS SHALL BE OF THE PIVOTED OR SIDE-HINGED SWINGING TYPE PER SECTION 1008.12.
10. G.C. TO VERIFY QUANTITY OF MASTER KEYS TO PROVIDE.
11. ALL DOOR HARDWARE (LOCKSETS, PUSH / PULLS, DEADLOCKS, ETC.) SHALL BE MOUNTED NOT LESS THAN 34" A.F.F., NOR MORE THAN 48" A.F.F.

ABBREVATIONS

AL ALUMINUM

SC SOLID CORE WOOD DOOR

HM HOLLOW METAL

GL GLASS

NOTE:
CONTRACTOR TO REFER TO OMcheck ENVELOPE FOR SPECIFIC DOOR REQUIREMENTS.

a. FOR NON-FlaNgeD DOORS ONly

SteP 6a

A. Prepare head flashing by cutting a piece of DuPont™StraightFlash™VF at least twelve (12) inches longer than the head length.

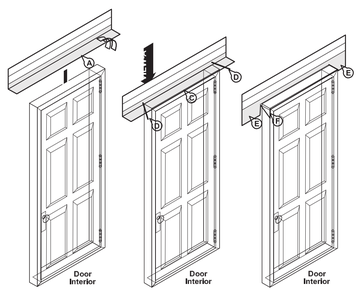
B. Remove the release paper from one side of DuPont™ StraightFlash™VF.

C. Center the flashing along the length of the door and position so that it contacts the door frame.

D. At the corner of the door frame, cut the DuPont™ StraightFlash™VF along the corner at a 45° angle.

E. Fold it down flat in the vertical direction parallel to the door frame.

F. Fold remaining head flashing ears to the jamb.



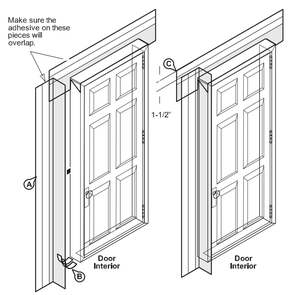
SteP 7a

A. Prepare jamb flashing by cutting a piece of DuPont™StraightFlash™VF at least six (6) inches longer than the jamb length.

B. Remove the release paper from one side of DuPont™ StraightFlash™VF.

C. Position so that it contacts the door frame up to the exterior face of the door. Ensure that the jamb flashing is positioned 1-1/2 inches below top of head flashing. Jamb flashing adhesive must **come in contact with head flashing adhesive and overlap by one inch.**

D. Repeat step for the other jamb.

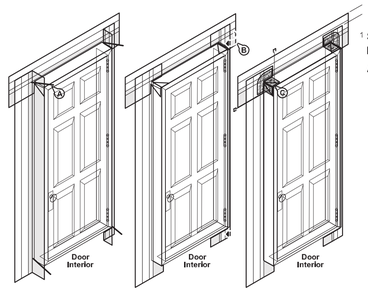


SteP 8a

A. At the corner of the door frame cut the DuPont™StraightFlash™VF along the corner at a 45° angle and fold it over flat to adhere it against the head flashing.

B. Repeat on opposite jamb.

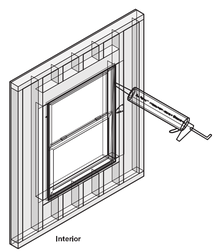
C. Cut two 3" x 3" DuPont™ FlexWrap™squares and add patches to corners of the door. Staple to wooden frame.



SteP 8

Final Step

A. Tool sealant around the window opening at the interior, using DuPont™Weatherization Sealant or DuPont Recommended Low Expansion Foam (and backer rod as necessary). Sealant and backer rod will also serve as a back dam.



1 FLASHING DETAILS

SCALE: NTS

REGISTRATION SEAL
NORTH CAROLINA
FREDERICK J. GOGLIA
SEAL
6408
ARCHITECT
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300
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SCOOTER'S COFFEE EST. 1998

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TITLE:

DOOR SCHEDULE

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
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KIOSK PROTOTYPE:
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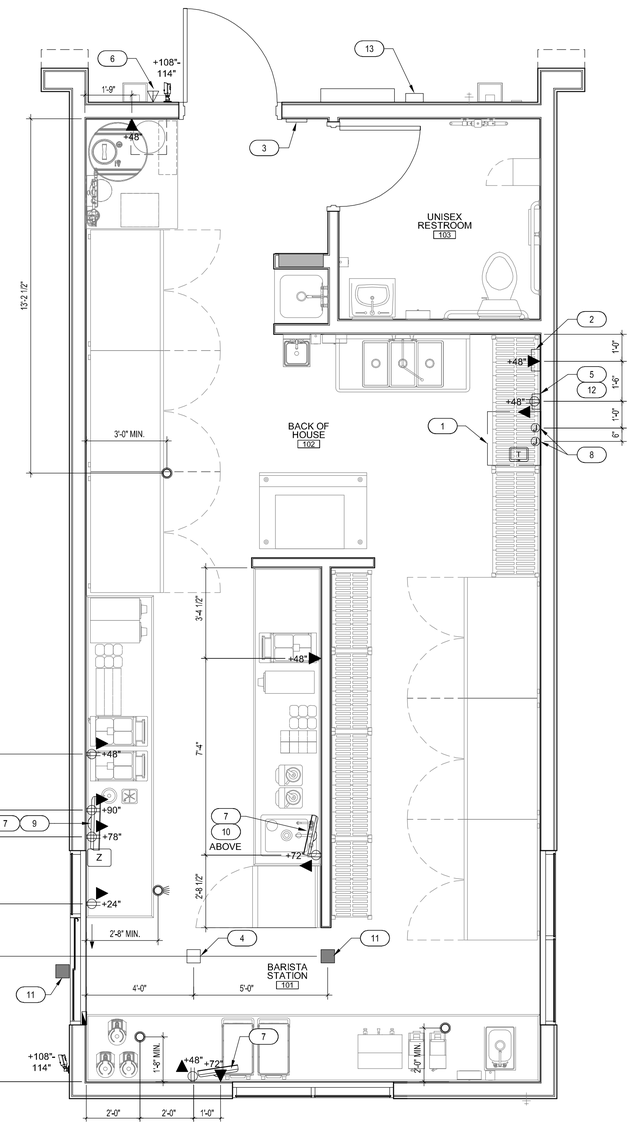


1 A/V DATA LAYOUT PLAN

SCALE: 3/8" = 1'-0"

PLAN NORTH

GENERAL NOTES

- GENERAL CONTRACTOR TO VERIFY ISP / BROADBAND (INCLUDING AVAILABILITY, PROVIDER, SERVICE TYPE & CAPABILITY, CAPACITY & SPEED).

  ISP / BROADBAND

  1. FIBER, COPPER OR CABLE: *REQUIRED TO PROCEED W/ DEVELOPMENT.
     REQUIRED MINIMUM SPEEDS:
     - KIOSK - MIN. 50Mbps DOWNLOAD / 15Mbps UPLOAD.
     - WITH LOBBY / SEATING - MIN. 100Mbps DOWNLOAD / 75Mbps UPLOAD.

IT INSTALL NOTES

A. ANY MISSING J-BOXES, DESCREPENCIES, OR VARIATIONS FROM PLAN MUST BE APPROVED BY THE SCOOTER'S COFFEE CONSTRUCTION MANAGER ASSIGNED TO THE PROJECT. IF ISSUES ARE DISCOVERED, THE I.T. INSTALLER MUST NOTIFY THE CONSTRUCTION MANAGER VIA DIRECT PHONE CALL. CONSTRUCTION MANAGER CONTACT INFORMATION CAN BE FOUND VIA SMARTSHEET ONLINE.

B. MOST PROBLEMS CAN BE RESOLVED QUICKLY WITH COMMUNICATION VIA PHONE CALL. EMAILS MAY BE USED FOR FOLLOW-UP PURPOSES ONLY, BUT IT SHALL NOT BE THE PRIMARY METHOD OF COMMUNICATION. THE I.T. INSTALLER WILL BE RESPONSIBLE TO COVER THE COST OF A RETURN TRIP IF A PHONE CALL DOES NOT OCCUR.

C. THE GENERAL CONTRACTOR IS NOT ALLOWED TO DIRECT ANY CHANGES TO THE I.T. INSTALL. ANY CHANGES MUST COME FROM THE DIRECTION OF SCOOTER'S COFFEE CONSTRUCTION MANAGER.

D. IF THERE IS A SHELF OR APPLIANCE BELOW THE CAMERA OR ALARM EQUIPMENT, PLEASE BRING IT OUT ENOUGH TO CLEAR THE SHELF SO THINGS STACKED ON TOP WON'T BLOCK THE CAMERA'S VIEW.

SYMBOLS LEGEND - AUDIO / VIDEO / DATA

- JUNCTION BOX
- DATA PORT - SINGLE
- DATA PORT - DUAL
- DATA PORT - QUAD
- DATA WAP EXTERIOR PORT
- T — TABLET STATION
- SECURITY CAMERA - OUTDOOR
- DOME CAMERA
- AUDIO CAMERA
- Z — ZOOM TIMER
- DOOR CONTACT
- MOTION SENSOR

KEYNOTES

(X)

1. 16CH NVR ABOVE MANAGERS STATION.
2. HME CONTROL PANEL.
3. GC2 PANEL.
4. ACCESS POINT LOCATION, CEILING MOUNTED.
5. ISP LOCATION BESIDE DATA RACK.
6. TYPICAL LOCATION IS NEAR REAR CORNER OF BUILDING. I.T. TECH INSTALLER MUST VERIFY LOCATION IS IN LINE-OF-SIGHT FROM MENU BOARD TO LAST CAR IN LINE OF LINE BUSTING CONE.
7. KDS MONITOR
8. (2) J-BOX FOR VOLUME CONTROL
9. ZOOM TIMER
10. SURVEILLANCE MONITOR
11. SPEAKER
12. CELLULAR MODEM MOUNTED ON WALL.
13. C.E. COMMUNICATION DEVICE VISIBLE TO DRIVE-THRU MENU.

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 6408 ARCHITECT FREDERICK J. GOGLIA
4/9/26

FREDERICK J. GOGLIA
ARCHITECT, NCARB, RDI
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH: (314) 415-2400 FAX (314) 415-2300 www.arcvi.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:

AUDIO / VIDEO DATA PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
AGG

CHECKED BY:
SW

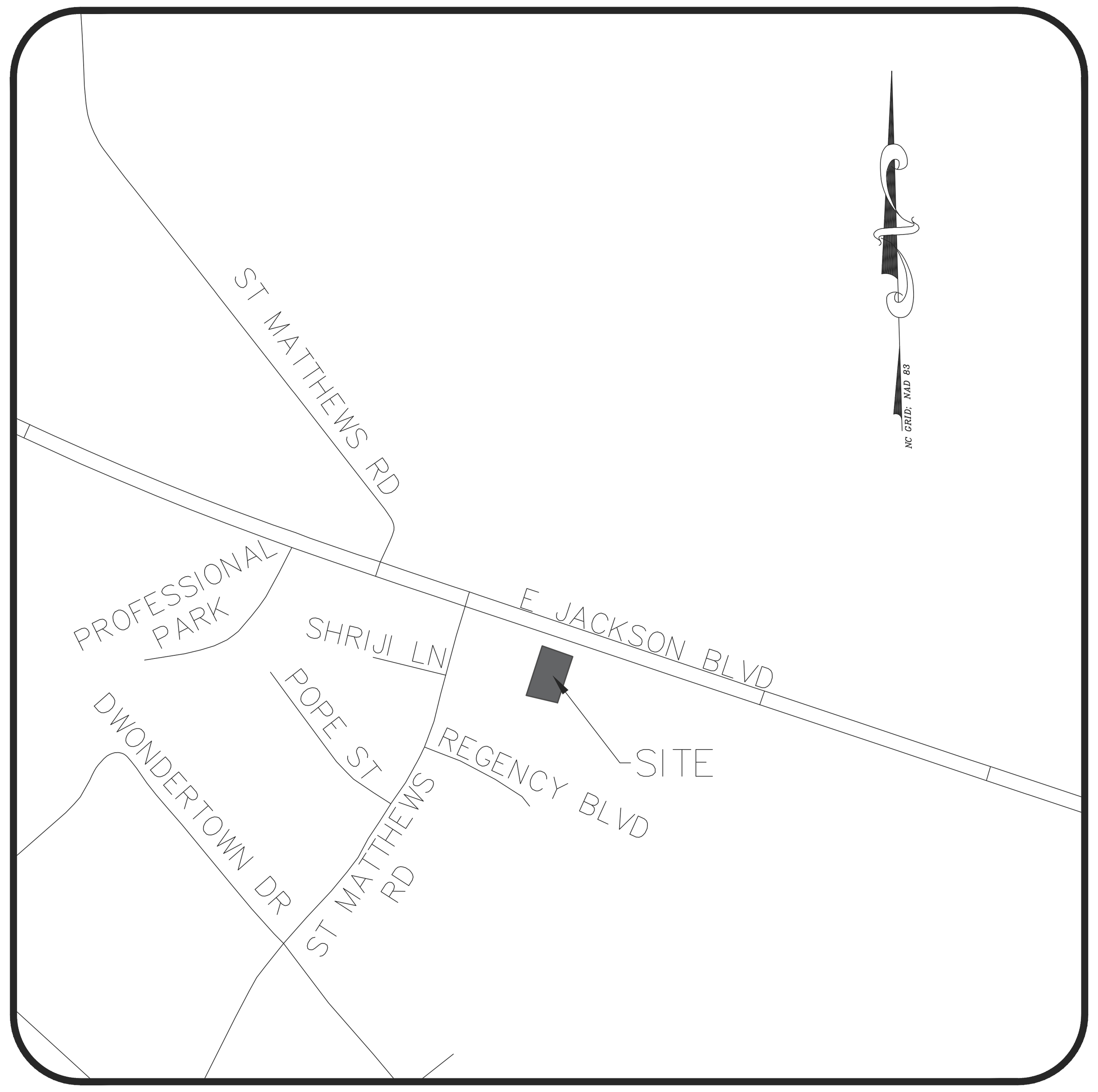
SHEET NO.

A6.1

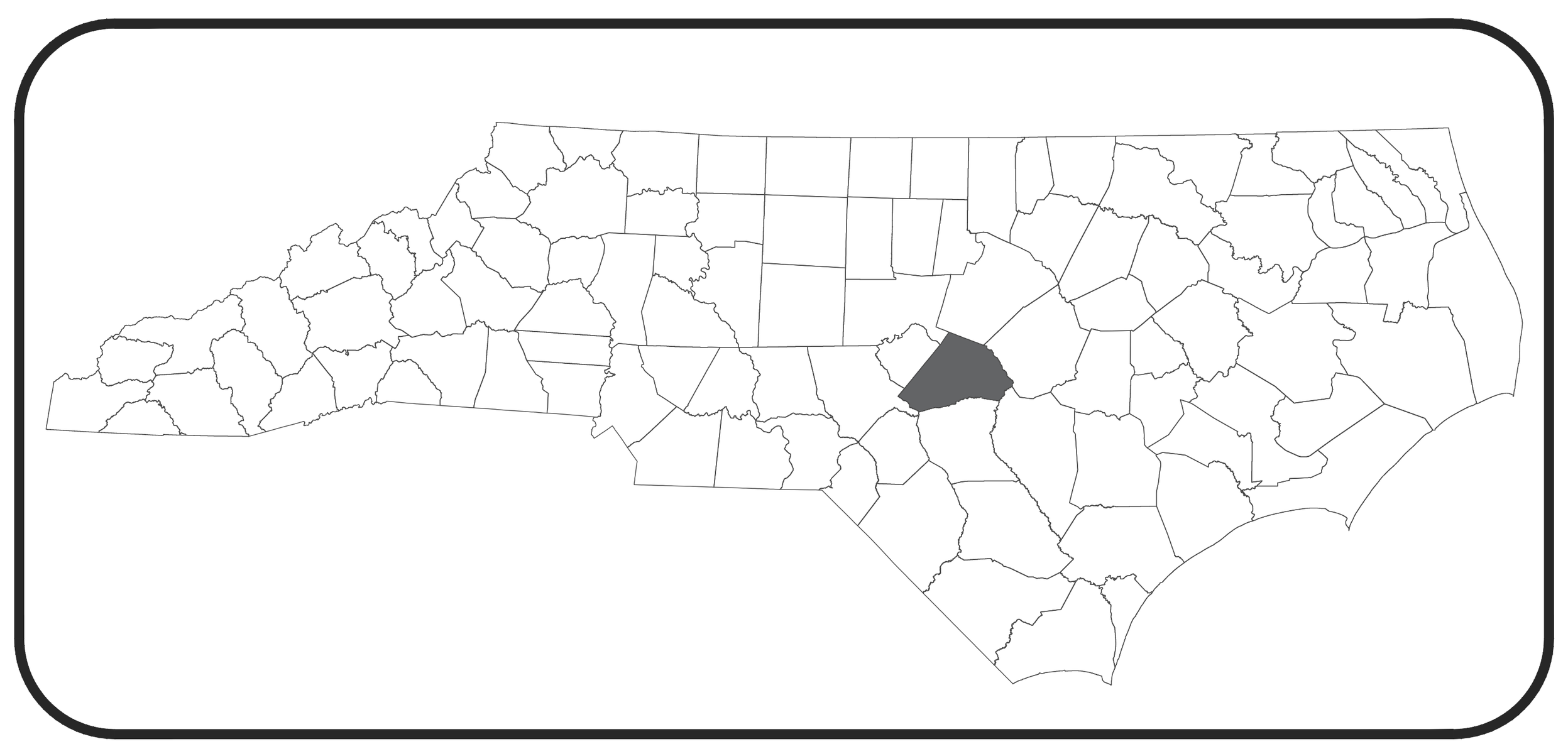
SCOOTER'S COFFEE

503 E JACKSON BLVD

ERWIN, NC



VICINITY MAP
N.T.S



PROJECT LOCATION
CITY: ERWIN
COUNTY: HARNETT

SHEET INDEX:

1	COVER SHEET
2	EXISTING CONDITIONS
3	REMOVALS AND EROSION CONTROL
4	EROSION AND SEDIMENT CONTROL DETAILS
5	SITE PLAN
6	GRADING PLAN
7	UTILITY PLAN
8	UTILITY DETAILS
9	PRESSURE SANITARY SEWER SCHEMATIC
10	LANDSCAPE PLAN
11	LANDSCAPE DETAILS

2022 HRW REQUIRED UTILITY NOTES
(Revision 10 – April 19, 2022)

WATER

A. The Fire Marshal's Office shall approve all hydrant types and locations in new subdivisions. However, Harnett Regional Water (HRW) prefers the contractors to install one of the following fire hydrants:

1. Mueller – Super Centurion 250 A–423 model with a 5¼" main valve opening three way (two hose nozzles and one pumper nozzle);
2. American Darling – Mark B–84–B model with a 5¼" main valve opening three way (two hose nozzles and one pumper nozzle);
3. Waterous – Pacer B–67–250 model with a 5¼" main valve opening three way (two hose nozzles and one pumper nozzle) or approved equal for standardization.

* All fire hydrants listed above must have "American National Fire Hose Connection Screw Threads" NST/NH hose threads.

B. Fire hydrants are installed at certain elevations. Any grade change near any fire hydrant which impedes its operation, shall become the responsibility of the Utility Contractor for correction. Corrections will be monitored by the HRW Utility Construction Inspector and the Harnett County Fire Marshal.

C. The Professional Engineer (PE) shall obtain and provide the NCDEQ "Authorization to Construct" permit to the Utility Contractor before the construction of the water line shall begin. The Utility Contractor must post a copy of the NCDEQ "Authorization to Construct" permit issued by the North Carolina Department of Environmental Quality (NCDEQ) on site prior to the start of construction. The permit must be maintained on site throughout the entire construction process of the proposed water lines that will serve this project.

D. The Utility Contractor shall notify Harnett Regional Water (HRW) and the Professional Engineer (PE) at least two days prior to construction commencing. The Utility Contractor must schedule a pre–construction conference with Mr. Chad Everette, HRW Utility Construction Inspector at least two (2) days before construction will begin and the Utility Contractor must coordinate with HRW for regular inspection visitations and acceptance of the water system(s). Construction work shall be performed only during the normal working hours of HRW which is 8:00 am 5:00 pm Monday through Friday. Holiday and weekend work is not permitted by HRW.

E. The Professional Engineer (PE) shall provide HRW and the Utility Contractor with a set of NCDEQ approved plans marked "Released For Construction" at least two days prior to construction commencing. The Registered Land Surveyor (RLS) should stake out all lot corners and the grade stakes for the proposed finish grade for each street before the Utility Contractor begins construction of the water line(s). The grade stakes should be set with a consistent offset from the street centerline so as not to interfere with the street grading and utility construction.

F. The Utility Contractor shall provide the HRW Utility Construction Inspector with material submittals and shop drawings for all project materials prior to the construction of any water line extension(s), and associated water services in Harnett County. The materials to be used on the project must meet the established specifications of HRW and be approved by the Engineer of Record prior to construction. All substandard materials or materials not approved for use in Harnett County found on the project site must be removed immediately when notified by the HRW Utility Construction Inspector.

G. The water main(s), fire hydrants, service lines, meter setters and all associated appurtenances shall be constructed in strict in accordance with the standard specifications of the Harnett Regional Water (HRW). The Utility Contractor shall be responsible to locate the newly installed water main(s), water service lines and all associated meter setters and meter boxes for other utility companies and their contractors until the new water main(s) have been approved by the North Carolina Department of Environment Quality – Division of Environmental Health, Public Water Supply Section (NCDEQ, DEH, PWS) and accepted by HRW.

H. Prior to acceptance, all services will be inspected to insure that they are installed at the proper depth. All meter boxes must be flush with the ground level at finish grade and the meter setters must be a minimum of 8" below the meter box lid. Meter setters shall be centered in the meter box and supported by brick, block or stone.

I. The Utility Contractor shall provide the Professional Engineer (PE) and HRW Utility Construction Inspector with a set of red line drawings identifying the complete water system installed for each project. The red line drawings should identify the materials, pipe sizes and approximate depths of the water lines as well as the gate valves, fire hydrants, meter setters, blow off assemblies and all associated appurtenances for all water line(s) constructed in Harnett County. The red line drawings should clearly identify any deviations from the NCDEQ approved plans. All change orders must be approved by HRW and the Professional Engineer (PE) in writing and properly documented in the red line field drawings.

J. Potable water mains crossing other utilities and non–potable water lines (sanitary sewer, storm sewer, RCP, etc.) shall be laid to provide a minimum vertical distance of twenty–four (24") inches between the potable water main and all other utilities. NCDOT requires the new water mains to be installed under the storm water lines. The potable water main shall be installed with twenty–four (24") inches of vertical separation and with ductile iron pipe when designed to be placed under a non–potable water line such as sanitary sewer or storm sewer lines. If these separations cannot be maintained then the water main shall be installed with ductile iron pipe. Both the potable water main and the non–potable water line must be cast iron or ductile iron pipe (DIP) if the state minimum separations cannot be maintained. The ductile iron pipe must be laid so the mechanical joints are at least (10') feet from the point where the potable water main crosses the non–potable water line.

K. Potable water mains installed parallel to non–potable water lines (sanitary sewer, storm sewer, RCP, etc.) shall be laid to provide a minimum horizontal distance of ten (10') feet between the potable water main and sanitary sewer mains, sewer laterals and services. The horizontal separation between the potable water main and any other utility or storm sewer shall not be less than five (5') feet. The potable water main must be ductile iron pipe if this horizontal separation of ten (10') feet cannot be maintained. The ductile iron pipe shall extend at least ten (10') feet beyond the point where the minimum required horizontal separation of ten (10') feet can be re–established.

L. Meter setters shall be installed in pairs on every other lot line where possible to leave adequate space for other utilities to be installed at a later time. The meter setters shall be installed at least one (1') foot inside the right–of–way and at least three (3') to five (5') feet from the property line between the lots.

M. HRW requires that meter boxes for ¾" services shall be 12" wide x 17" long ABS plastic boxes at least 18" in height with cast iron lids/covers. Meter boxes for 1" services shall be 17" wide x 21" long ABS plastic boxes at least 18" in height with plastic lids and cast iron flip covers in the center of the lids. Meter boxes for 2" services shall be 20" wide x 32" long ABS plastic boxes at least 18" in height with plastic lids and cast iron flip covers in the center of the lids. Meter boxes for 2" services shall be 20" wide x 32" long ABS plastic boxes at least 20" in height with plastic lids and cast iron flip covers in the center of the lids.

N. Master meters must be installed in concrete vaults sized for the meter assembly and associated appurtenances so as to provide at least eighteen (18") inches of clearance between the bottom of the concrete vault and the bottom of the meter setter. The master meter must be provided test ports if the meter is not equipped with test ports from the manufacturer in accordance with the HRW established standard specifications and details. Ductile iron pipe must be used for the master meter vault piping and valve vault piping. The Utility Contractor must provide shop drawings for the meter vaults to HRW prior to ordering the concrete vaults.

O. The Utility Contractor will install polyethylene SDR–9 water service lines that cross under the pavement inside a schedule 40 PVC conduit to allow for removal and replacement in the future. Two (2) independent ¾" water service lines may be installed inside one (1) two (2") inch schedule 40 PVC conduit or two (2) independent 1" water service lines may be installed inside one (1) three (3") inch schedule 40 PVC conduit, but each water service shall be tapped directly to the water main. Split services are not allowed by HRW. If sidewalks are proposed, the conduit must extend past the sidewalk.

P. The water main(s), fire hydrants, gate valves, service lines, meter setters and associated appurtenances must be rated for 200 psi and hydrostatically pressure tested to 200 psi. The hydrostatic pressure test(s) must be witnessed by the HRW Utility Construction Inspector. The Utility Contractor must notify HRW when they are ready to begin filling in lines and coordinate with Harnett Regional Water to witness all pressure testing.

Q. The Utility Contractor shall conduct a pneumatic pressure test using compressed air or other inert gas on the stainless steel tapping sleeve(s) prior to making the tap on the existing water main. This pneumatic pressure test must be witnessed by the HRW Utility Construction Inspector. The Utility Contractor shall use Romac brand stainless steel tapping sleeve(s) or approved equal for all taps made in Harnett County. All new water line extensions must begin with a resilient wedge type gate valve sized equal to the diameter of the new water line extension in order to provide a means of isolation between Harnett Regional Water's existing water mains and the new water line extensions under construction.

R. All water mains will be constructed with SDR–21 PVC Pipe or Class 50 Ductile Iron Pipe rated for at least 200 psi or greater. All pipes must be protected during loading, transport, unloading, staging, and installation. PVC pipe must be protected from extended exposure to sunlight prior to installation.

S. All water mains will be flushed and disinfected in strict accordance with the standard specifications of the Harnett Regional Water. All water samples collected for bacteria testing will be collected by the HRW Utility Construction Inspector and tested in the HRW Laboratory.

T. All fittings larger than two (2") inches diameter shall be ductile iron. HRW requires that mechanical joints be assembled with grip rings as "Megalug" fittings are not approved by Harnett Regional Water for pipe sizes smaller than twelve inches (12") diameter. PVC pipe used for water mains shall be connected by slip joint or mechanical joint with grip rings. Glued pipe joints are not allowed on PVC pipe used for water mains in Harnett County.

U. HRW requires that the Utility Contractor install tracer wire in the trench with all water lines. The tracer wire shall be 12 ga. insulated, solid copper conductor and it shall be terminated at the top of the valve boxes or manholes. No spliced wire connections shall be made underground on tracer wire installed in Harnett County. The tracer wire may be secured with duct tape to the top of the pipe before backfilling.

V. The Utility Contractor will provide Professional Engineer (PE) and the HRW Utility Construction Inspector with a set of red line field drawings to identify the installed locations of the water line(s) and all associated services. All change orders must be pre–approved by HRW and the Professional Engineer (PE) in writing and properly documented in the red line field drawings.

W. The Utility Contractor shall spot dig to expose each utility pipe or line which may conflict with construction of proposed water line extensions well in advance to verify locations of the existing utilities. The Utility Contractor shall provide both horizontal and vertical clearances to the Professional Engineer (PE) to allow the PE to adjust the water line design in order to avoid conflicts with existing underground utilities. The Utility Contractor shall coordinate with the utility owner and be responsible for temporary relocation and/or securing existing utility poles, pipes, wires, cables, signs and/or utilities including services in accordance with the utility owner requirements during water line installation, grading and street construction.

X. Prior to the commencement of any work within established utility easements or NCDOT right–of–ways the Utility Contractor is required to have a signed NCDOT encroachment agreement posted on site and notify all concerned utility companies in accordance with G.S. 87–102. The Utility Contractor must call the NC One Call Center at 811 or (800) 632–4949 to verify the location of existing utilities prior to the beginning of construction. Existing utilities shown in these plans are taken from maps furnished by various utility companies and have not been physically located or verified by the P.E. (i.e. TELEPHONE, CABLE, WATER, SEWER, ELECTRICAL POWER, FIBER OPTIC, NATURAL GAS, ETC.). The Utility Contractor will be responsible to repair any and all damages to the satisfaction of the related utility company.

Y. The Utility Contractor shall provide HRW with at least one (1) fire hydrant wrench and one (1) break–away flange kit for every subdivision with fire hydrants developed in Harnett County. These items must be provided to HRW before the final inspection will be scheduled by the HRW Utility Construction Inspector. In addition, the Utility Contractor shall install a 4" x 4" concrete valve marker at the edge of the right–of–way to identify the location of each gate valve installed in the new water system with the exception of the fire hydrant isolation valves. The contractor shall measure the distance from the center of the concrete marker to the center of the valve box. This distance (in linear feet) shall be stamped on the brass plate located on the top of the concrete valve marker. In lieu of installing the concrete valve markers, the Utility Contractor may provide at least two measurements from two independent permanent above ground structures to the Professional Engineer (PE) in the red line drawings to identify the valve locations. The Professional Engineer (PE) must include these measurements in the As–Built Record Drawings submitted to HRW.

Z. The Utility Contractor will be responsible for any and all repairs due to leakage damage from poor workmanship during the one (1) year warranty period once the water system improvements have been accepted by Harnett Regional Water. Harnett Regional Water will provide maintenance and repairs when requested and bill the Developer and/or Utility Contractor if necessary due to lack of response within 48 hours of notification of warranty work. The Utility Contractor will be responsible for any and all repairs due to damages resulting from failure to locate the new water lines and associated appurtenances for other utilities and their contractors until the water lines have been approved by NCDEQ and accepted by HRW. The final inspection of water system improvements cannot be scheduled with HRW until the streets have been paved; the rights–of–way and utility easements have been seeded and stabilized with an adequate stand of grass in place to prevent erosion issues on site.

AA The Engineer of Record is responsible to insure that construction is, at all times, in compliance with accepted sanitary engineering practices and approved plans and specifications. No field changes to the approved plans are allowed without prior written approval by HRW A copy of each engineer's field report is to be submitted to HRW as each such inspection is made on system improvements or testing is performed by the contractor. Water and sewer infrastructure must pass all tests required by HRW specifications and those of all applicable regulatory agencies. These tests include, but are not limited to: air test, vacuum test, mandrel test, visual test, pressure test, bacteriological test, etc. A HRW Inspector must be present during testing and all test results shall be submitted to HRW. All tests must be satisfied before the final inspection will be scheduled with the HRW Inspector. The Engineer of Record must request in writing to schedule the final inspection once all construction is complete. The Developer's Engineer of Record and the HRW Utility Construction Inspector shall prepare a written punch list of any defects or deficiencies noted during the final inspection, should any exist. Upon completion of the punch list, the Developer's Engineer of Record will schedule another inspection. In the event the number of inspections performed by the HRW exceeds two, additional fees may be accessed to the Developer.

811 Know what's below. Call before you dig.

ECLS GLOBAL, INC
U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

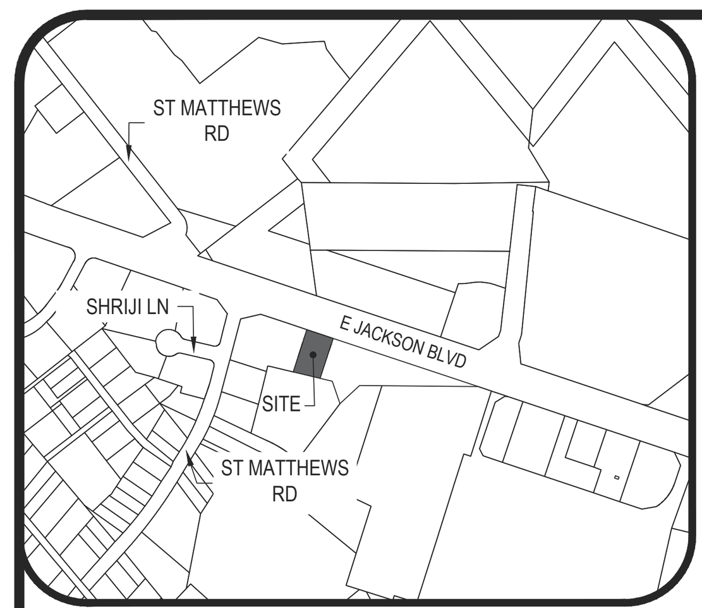
REVISIONS:

COVERT SHEET

FOR
SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
11808 MIRACLE HILLS DR, SUITE 400
OMAHA, NE 68154

PROJECT:	MB-482 SCOOTER'S
DESIGN BY:	Y.S.
DRAWN BY:	Y.S.
CHECK BY:	J.H.
SCALE:	NTS
DATE:	02/10/2026

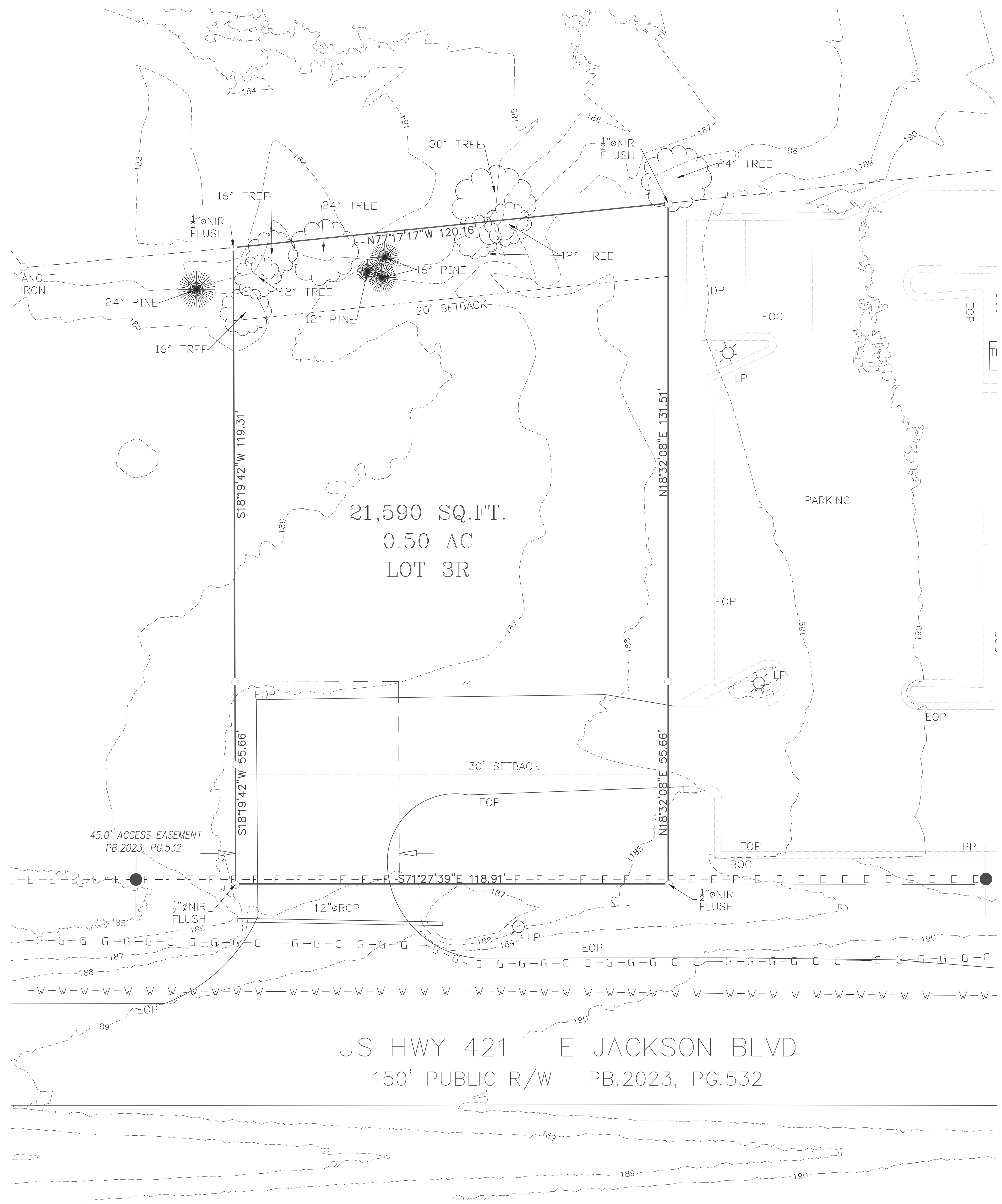
ECLS



VICINITY MAP (NTS)

LEGEND
BOC=BACK OF CURB
EOP=EDGE OF PAVEMENT
RCP=REINFORCED CONCRETE PIPE
=LIGHT POLE(LP)
=ADJOINERS LINE
=PROPERTY LINE
=SANITARY SEWER LINE
=WATER LINE
=GAS LINE
=POWER LINE
=POWER POLE(PP)
WV=WATER VALVE
GM=GAS METER
CO=CLEAN OUT
=EXISTING IRON PIPE (EIP)
=EXISTING IRON ROD (EIR)
=NEW IRON ROD (NIR)
=MAG NAIL SET (MNS)
=EXISTING MAG NAIL (EMN)
=COMPUTED POINT (CP)
AG=ABOVE GROUND
BG=BELOW GROUND
=TREE
=PINE

SITE DATA TABLE	
OWNER:	JACKSON RUDOLPH
PROPERTY ADDRESS:	503 E JACKSON BLVD ERWIN, NC 28339
PIN (s):	1507-43-7066.000
DEED:	D.B. 311, P.G. 0110
PLAT	M.B. 2025, P.G. 754
PARCEL ID:	021507 0155 02
EXISTING ZONNING:	B2 HIGHWAY BUSINESS
EXISTING LAND USE:	VACANT
PROPOSED LAND USE:	COMERCIAL-RESTAURANT
LOT AREA:	0.50 ACRES
WATERSHED OVERLAY:	NO
RIVER BASIN:	CAPE FEAR RIVER
FLOODPLAIN DATA:	THE PROPERTY IS NOT LOCATED IN THE FLOOD HAZARD ZONE PER FEMA MAP PANEL 3720150600J.
NATURAL OR HISTORIC INVENTORY SITES:	NONE
BUILDING SETBACKS:	FRONT YARD: 30 FT SIDE: 0 FT REAR YARD: 20 FT CORNER: 20 FT



GRAPHIC SCALE
20 10 0 20 40 60
1 INCH = 20 FEET

SHEET 2 OF 11

ECLS GLOBAL, INC
U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

REVISIONS:

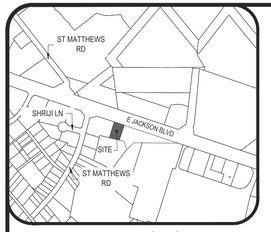
2/10/2026

EXISTING CONDITIONS

FOR
SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
11808 MIRACLE HILLS DR, SUITE 400
OMAHA, NE 68154

PROJECT:	MB-482 SCOOTER'S
DATE OF SURVEY:	10/17/2025
SURVEYED BY:	T.G
DRAWN BY:	Y.S.
CHECK BY:	J.H.
SCALE:	1"=20'
DATE:	02/10/2026

ECLS



VICINITY MAP (NTS)

LEGEND
BOC=BACK OF CURB
EOP=EDGE OF PAVEMENT
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=ADJOINERS LINE
=PROPERTY LINE
SS =SANITARY SEWER LINE
=LIMIT OF DISTURBANCE
=SILT FENCE
W =WATER LINE
G =GAS LINE
E =POWER LINE
=POWER POLE(PP)
WV=WATER VALVE
GM=GAS METER
CO=CLEAN OUT
=EXISTING IRON PIPE (EIP)
=EXISTING IRON ROD (EIR)
=NEW IRON ROD (NIR)
=MAG NAIL SET (MNS)
=EXISTING MAG NAIL (EMN)
=COMPUTED POINT (CP)
AG=ABOVE GROUND
BG=BELOW GROUND
=TREE
=PINE

KEYNOTES: (#)

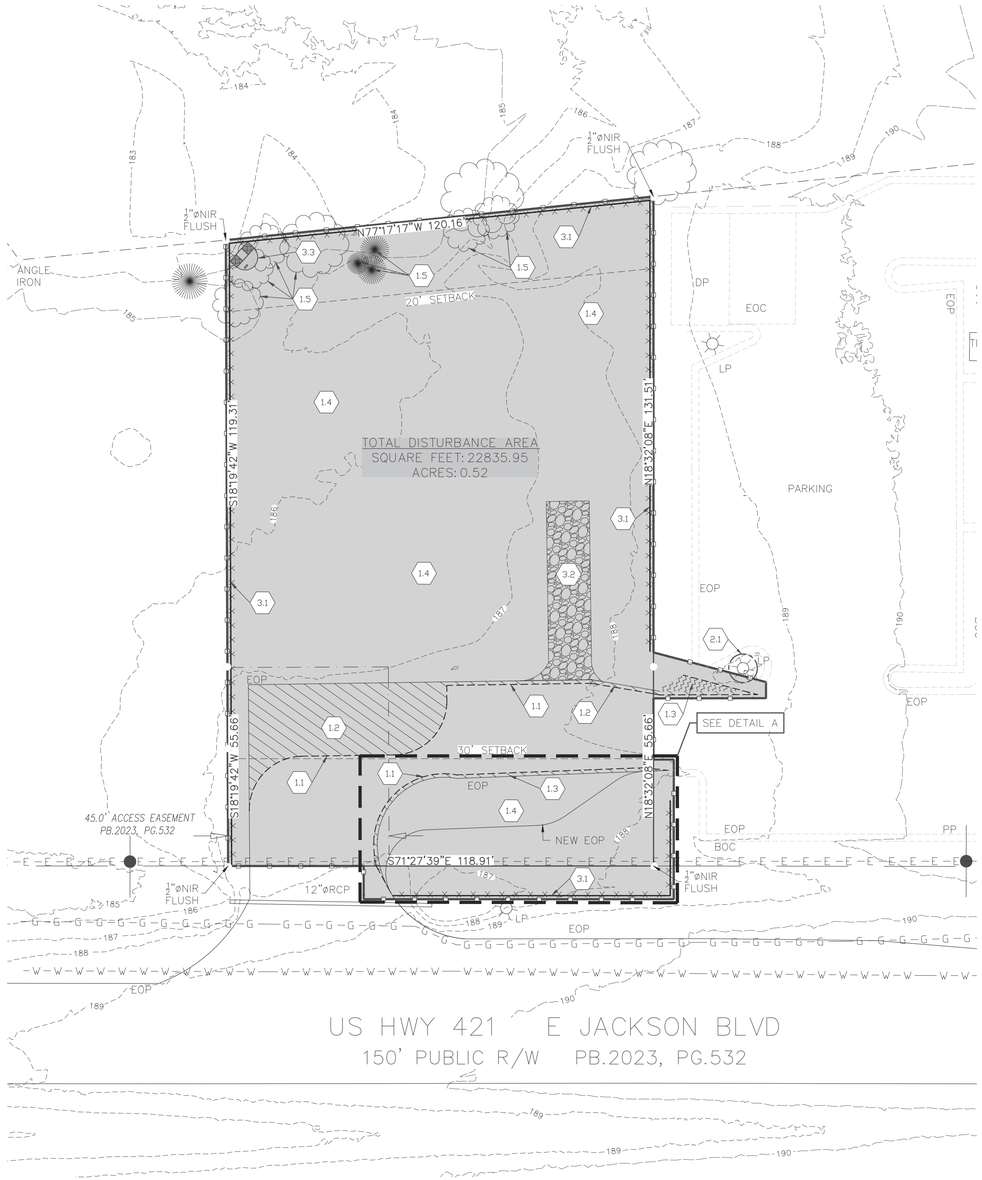
1. REMOVALS.
1.1. SAWCUT PAVEMENT.
1.2. REMOVE BITUMINOUS PAVEMENT.
1.3. REMOVE CURB AND GUTTER.
1.4. CLEAR AND GRUB AREA.
1.5. REMOVE TREE.

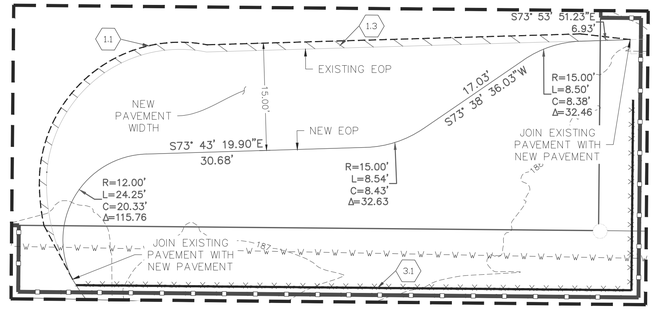
2. PROTECT.
2.1. PROTECT EXISTING UTILITIES AND STRUCTURES.

3. EROSION CONTROL ITEMS.
3.1. SILT FENCE – SEE DETAIL E1/4.
3.2. EMPORARY GRAVEL CONSTRUCTION ENTRANCE EXIT – SEE DETAIL E2/4.
3.3. SEDIMENT TRAP – SEE DETAIL E3/4.

NOTES:

1. CLEAR AND GRUB WITHIN CONSTRUCTION LIMITS AS REQUIRED FOR CONSTRUCTION.
2. CONSTRUCTION SITE SHALL HAVE STABILIZED EXIT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT. CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROTECT DOWNSTREAM WATERS FROM CONSTRUCTION RUNOFF.
3. CONSTRUCTION LIMITS AND SILT FENCE ARE SHOWN OFFSET FROM PROPERTY LINE FOR CLARITY, WHERE APPLICABLE.
4. PERFORM SUBCUTS AS NECESSARY PER GEOTECH REPORT AND FIELD ENGINEER. IF APPLICABLE.





DETAIL A
SCALE: 1" = 10'

CONSTRUCTION SEQUENCE

1. INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
2. INSTALL SILT FENCE.
3. GRADE SITE.
4. MAINTAIN ALL TEMPORARY MEASURES UNTIL PERMANENT GROUND COVER IS ESTABLISHED. NO MEASURES ARE TO BE REMOVED UNTIL DENIAL APPROVAL.

GRAPHIC SCALE
20 10 0 20 40 60
1 INCH = 20 FEET

ECLS
GLOBAL, INC
U.S. VETERAN-OWNED
19 N. McKINLEY ST.
COATS, NC 27521
910.897.2329 (OFFICE)
910.897.2329 (FAX) LICP C-1175

REVISIONS:

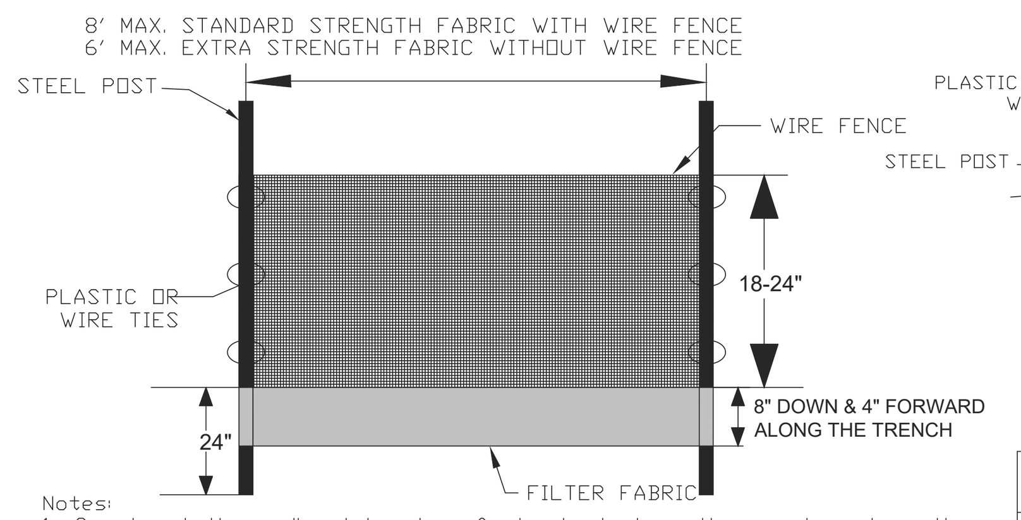
NORTH CAROLINA PROFESSIONAL SEAL 054299 ENGINEER JACK HOBBS
2/10/2026

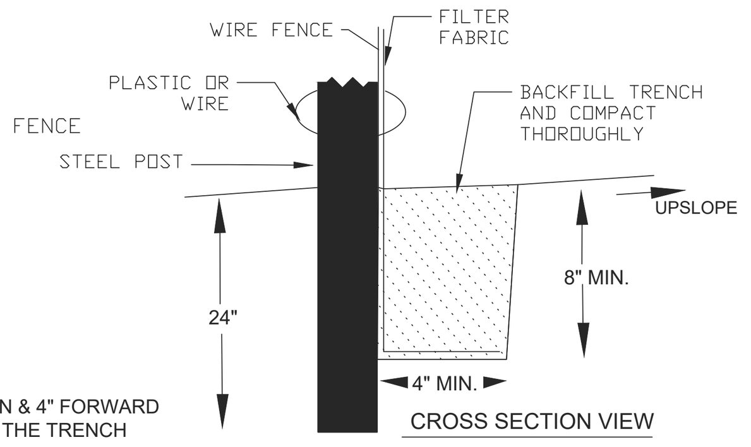
REMOVALS AND EROSION CONTROL PLAN

SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
11808 MIRACLE HILLS DR, SUITE 400
OMAHA, NE 68154

PROJECT:	MB-482 SCOOTER'S
DATE OF SURVEY:	10/17/2025
SURVEYED BY:	T.G
DRAWN BY:	Y.S.
CHECK BY:	J.H.
SCALE:	1"=20'
DATE:	02/10/2026

ECLS



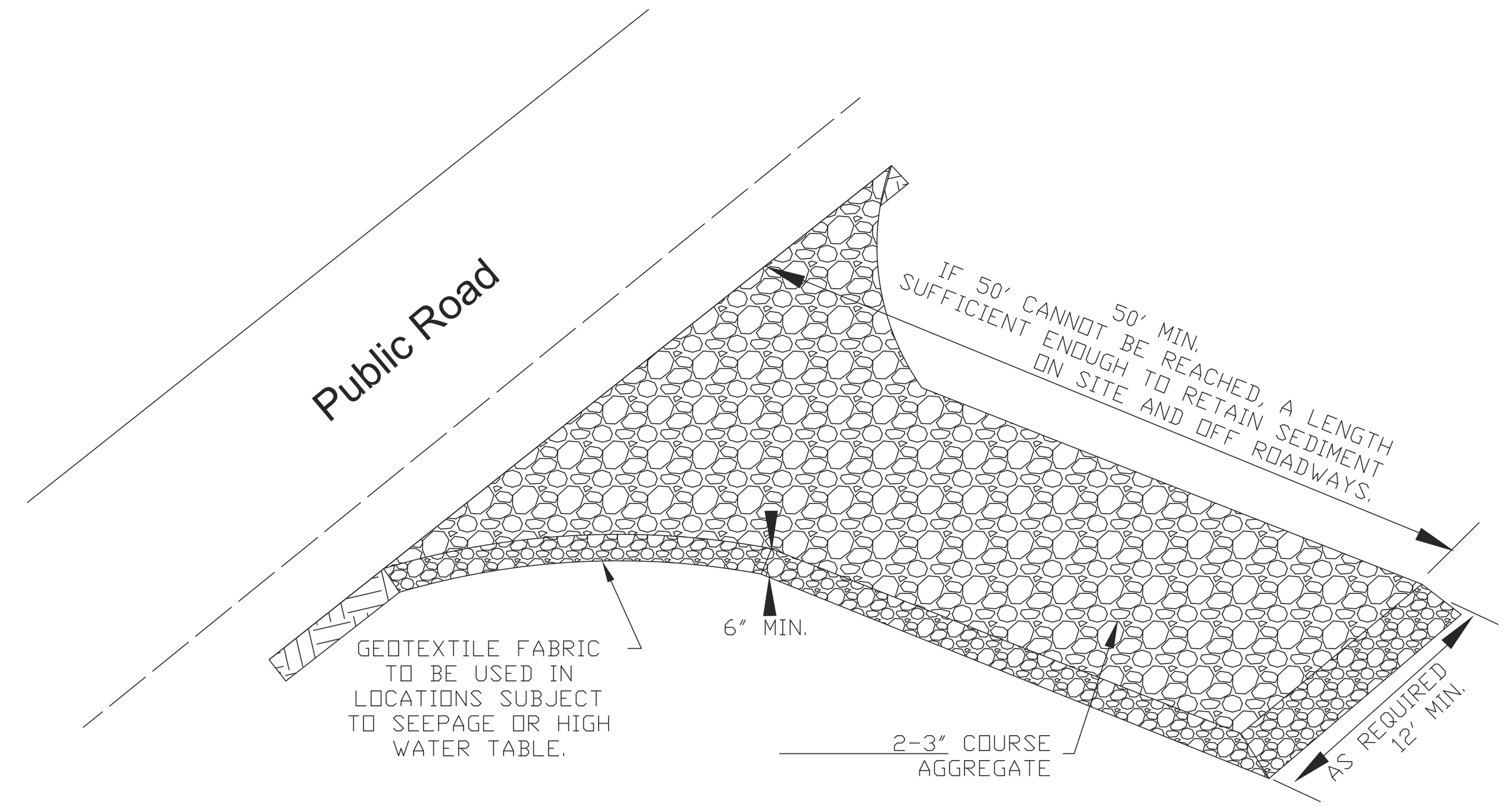


Max. Slope Length and Slope for Which Sediment Fence is Applicable		
Slope	Slope Length (ft)	Max. Area (ft^2)
<2%	100	10,000
2 to 5%	75	7,500
5 to 10%	50	5,000
10 to 20%	25	2,500
>20%	15	1,500

Notes:
1. Construct the sediment barrier of standard strength or extra strength synthetic filter fabrics.
2. Ensure that the height of the sediment fence does not exceed 24 inches above the ground. (Higher fences may impound volumes of water sufficient to cause failure of the structure)
3. Construct the filter fabric from a continuous roll cut to the length of the barrier to avoid joints. When joints are necessary, securely fasten the filter cloth only at a support post with 4 feet minimum overlap to the next post.
4. Support standard strength filter fabric by wire mesh fastened securely to the upslope side of the posts. Extend the wire mesh support to the bottom of the trench. Fasten the wire reinforcement, then fabric on the upslope side of the fence post. Wire or plastic zip ties should have a minimum 50 pound tensile strength.
5. When a wire mesh support fence is used, space posts a maximum of 8 feet apart. Supports should be driven securely into the ground a minimum of 24 inches. Wire mesh should be a minimum 14-gauge with 6 inch mesh spacing.
6. Extra strength filter fabric with 6 foot post spacing does not require a wire mesh support fence. Securely fasten the filter fabric directly to posts. Wire or plastic zip ties should have a minimum of 50 pound tensile strength.
7. Excavate the trench approximately 4 inches wide and 8 inches deep along the proposed line of the posts and upslope from the barrier.
8. Place 12 inches of fabric along the bottom and side of the trench.
9. Backfill the trench with soil placed over the filter fabric and compact. Thorough compaction of the backfill is critical to silt fence performance.
10. Do not attach filter fabric to existing trees.
11. Do not place across ditches, streams, or any other areas of concentrated flow.

Maintenance:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any required repairs immediately.
2. Should the fabric of a sediment fence collapse, tear, decompose, or become ineffective, replace it promptly.
3. Remove sediment deposits as necessary to provide adequate storage volume for the next rain and reduce pressure on the fence. Take care to avoid undermining the fence during cleanouts.
4. Remove all fencing materials and unstable sediment deposits and bring the area to grade and stabilize it after the contributing drainage area has been properly stabilized.

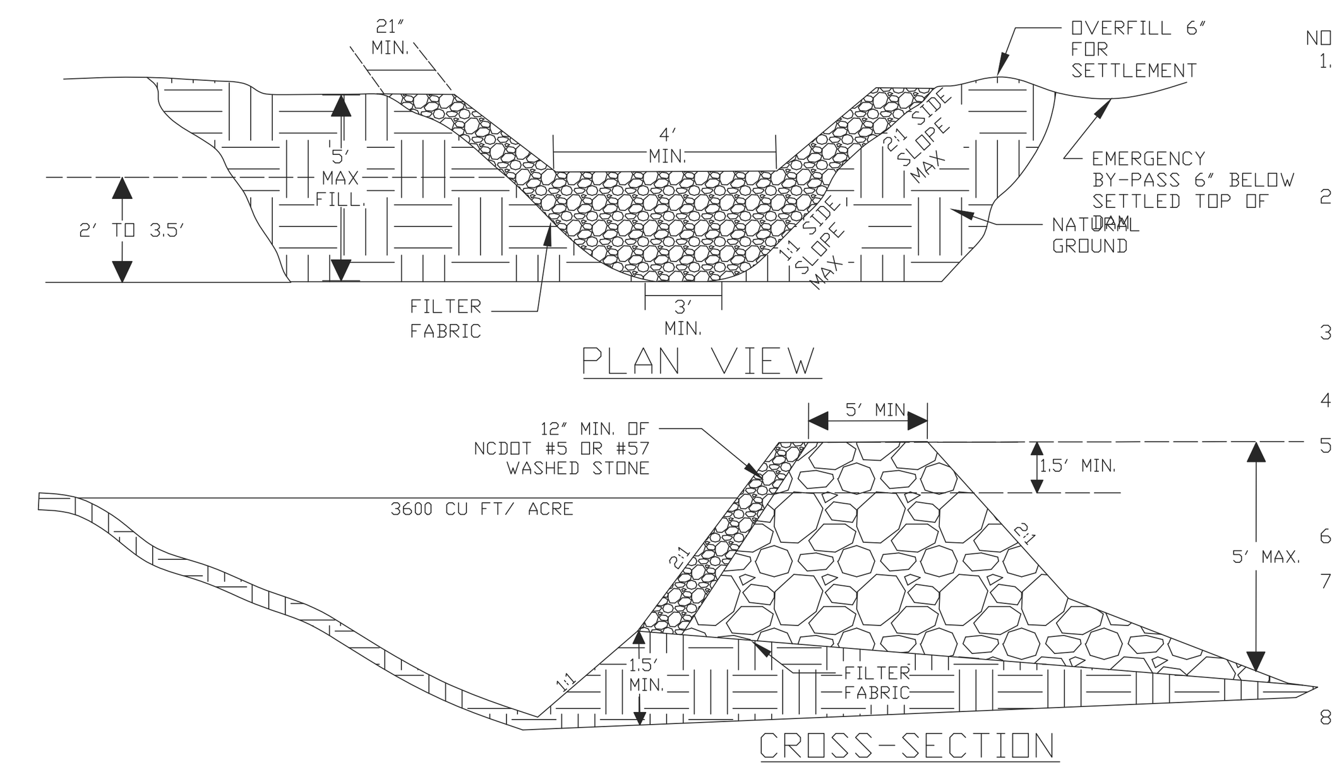
E1 / 4 SILT FENCE
NTS



Construction:
1. Clear the entrance and exit area of all vegetation, roots, and other objectionable material and properly grade it.
2. Place the gravel to the specific grade and dimensions shown on the plans, and smooth it.
3. Provide drainage to carry water to a sediment trap or other suitable outlet.
4. Use geotextile fabrics in order to improve stability of the foundation in locations subject to seepage or high water table.

Maintenance:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater. Make any required repairs immediately.
2. Maintain the gravel pad in a condition to prevent mud or sediment from leaving the construction site. This may require periodic topdressing with 2-inch stone.
3. Sediment on roadways is to be removed immediately by broom and shovel, either by manual or mechanical means, and not to be washed off where it has the potential to enter a stream, drainage way or storm drain system.

E2 / 4 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE EXIT
NTS



Spillway Design	
Drainage Area (acres)	Weir Length (ft)*
1	4
2	6
3	8
4	10
5	12
*Dimensions shown are minimums.	

MAINTENANCE:
1. Inspect all measures at least weekly and after each rainfall of 1.0 inch or greater.
2. Remove sediment and restore the trap to its original dimensions when the sediment has accumulated to one-half the design depth of the trap.
3. Place the sediment that is removed in the designated disposal area, and replace the part of the gravel facing that is impaired by sediment.
4. Check the structure for damage from erosion or piping. Periodically check the depth of the spillway to ensure it is a minimum of 1.5 feet below the low point of the embankment. Immediately fill any settlement of the embankment to slightly above design grade.
5. Any riprap displaced from the spillway must be replaced immediately.
6. After all sediment-producing areas have been permanently stabilized, remove the structure and all unstable sediment. Smooth the area to blend and stabilize properly.

NOTES:
1. Clear, grub, and strip the area under the embankment of all vegetation and root mat. Remove all surface soil containing high amounts of organic matter. Haul all objectionable material to the designated disposal area.
2. Ensure that fill material is free of roots, woody vegetation, organic material and other objectionable material. Place fill in lifts not exceeding 9 inches, and machine compact. Overfill the embankment 6 inches to allow for settlement.
3. Clear the pond area below the elevation of the crest of the spillway to facilitate sediment cleanout.
4. All cut and fill slopes should be 2:1 or flatter.
5. Ensure the stone section of the embankment has a 3 foot minimum, bottom width and maximum side slopes of 1:1 that extend to the bottom of the spillway section.
6. The weir must be level and constructed to grade to assure design capacity.
7. Discharge inlet water in a manner to prevent erosion, using temporary slope drains or diversions with outlet protection to divert sediment-laden water to the upper end of the pool area to improve basin trap efficiency.
8. Ensure the stone spillway outlet section extends downstream past the toe of the embankment until stable conditions are reached and the outlet velocity is acceptable for the receiving stream. Keep the edges of the stone outlet section flush with the surrounding ground, and shape the center to confine the outflow stream.
9. Place emergency spillway in undisturbed soils and direct emergency bypass to natural, stable areas. Locate bypass outlets so that flow will not damage the embankment.
10. Stabilize the embankment and all disturbed areas above the sediment pool and bare soil downstream from the trap immediately after construction.
11. Show the distance from the top of the spillway to the sediment cleanout level(1/2 design depth) on the plans and indicate in the field.
12. Install porous baffles as specified on following sheets.
13. If trap is to be de-watered using a pump and silt bag, show location on plans.

E3 / 4 TEMPORARY SEDIMENT TRAP
NTS

SHEET 4 OF 11

ECLS GLOBAL, INC
U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 275521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

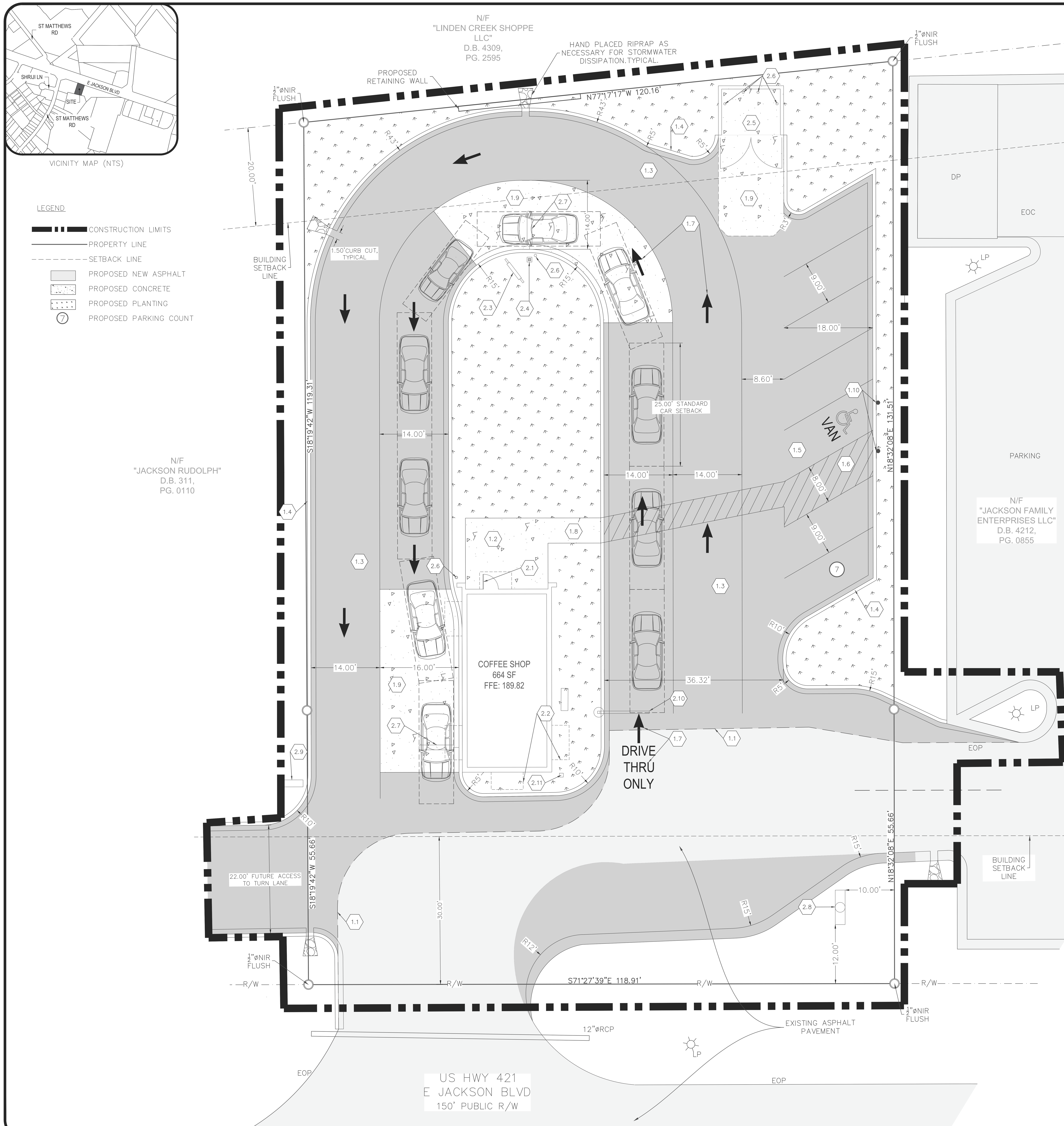
REVISIONS:

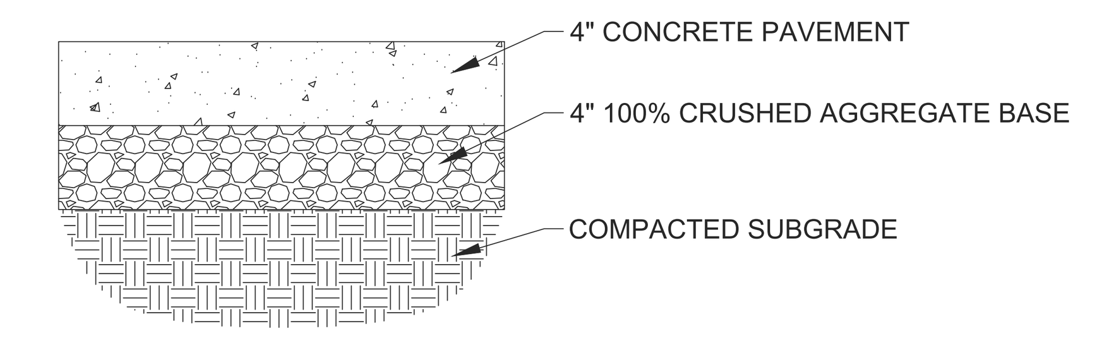
EROSION AND SEDIMENT CONTROL DETAILS

FOR
SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
11808 MIRACLE HILLS DR, SUITE 400
OMAHA, NE 68154

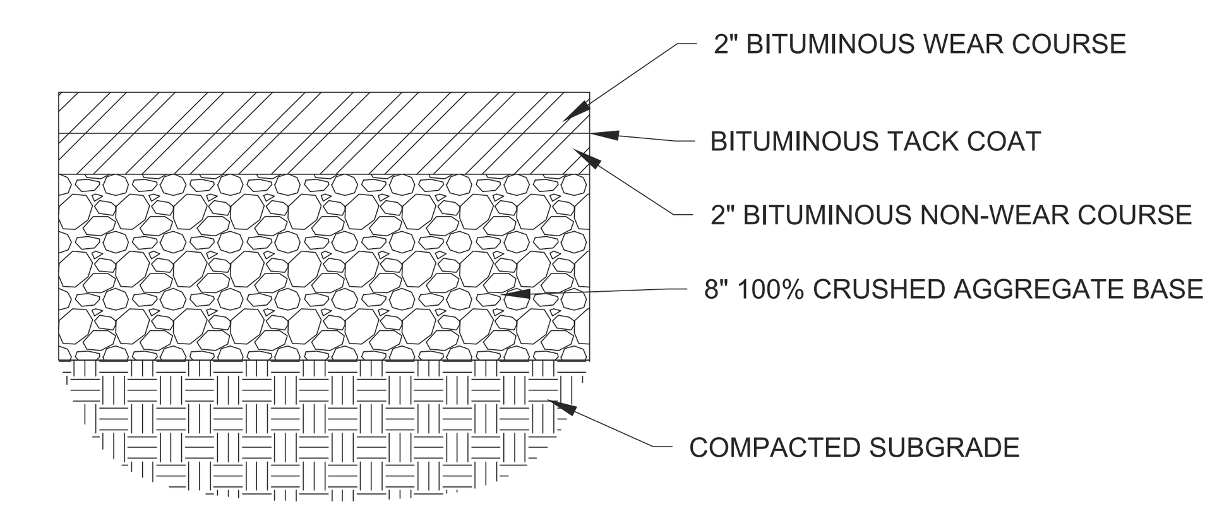
PROJECT:	MB-482 SCOOTER'S
DESIGN BY:	YMS
DRAWN BY:	YMS
CHECK BY:	JH
SCALE:	NTS
DATE:	02/10/2026

ECLS

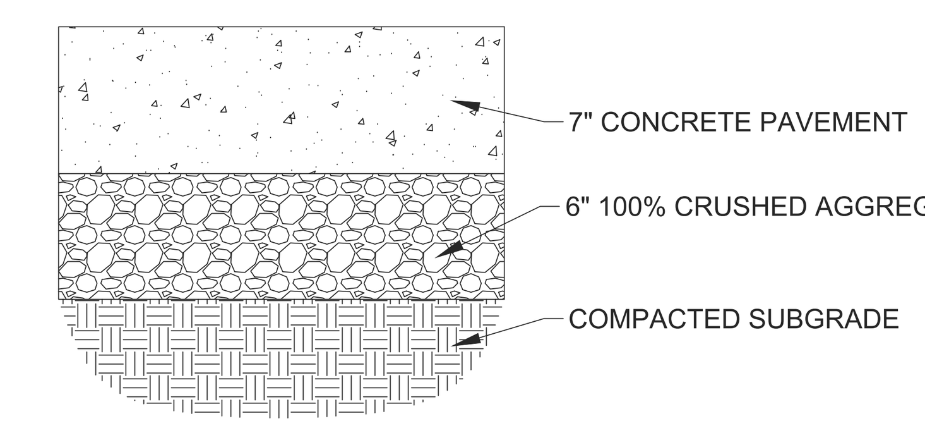




D1/5 CONCRETE SIDEWALK
NTS



D2/5 MEDIUM DUTY BITUMINOUS PAVEMENT
NTS



D3/5 CONCRETE PAVEMENT AT SENSOR LOOPS
NTS

KEYNOTES: #

1 DESIGN ITEMS.
1.1. MATCH EXISTING.
1.2. CONCRETE SIDEWALK –SEE DETAIL D1/5.
1.3. BITUMINOUS PAVEMENT –SEE DETAIL D2/5.
1.4. 6" CURB AND GUTTER.
1.5. VAN ACCESSIBLE ADA PARKING STALL WITH ACCESS AISLE AND SIGN.
1.6. ADA ACCESS AISLE WITH SIGN.
1.7. PAVEMENT STRIPES (TYP.)
1.8. ADA RAMP.
1.9. CONCRETE PAVEMENT–SEE DETAIL D3/5.
1.10. ADA PARKING SIGN.

2 ITEMS DESIGNED BY OTHERS.
2.1. DOOR/STRUCTURAL STOOP.
2.2. CANOPY/BUILDING OVERHANG.
2.3. MENU BOARD.
2.4. SPEAKER POST.
2.5. TRASH ENCLOSURE.
2.6. BOLLARDS.
2.7. LOOP SENSOR UNDER CONCRETE PAVEMENT.
2.8. MONUMENT SIGN.
2.9. THANK YOU SIGN/DO NOT ENTER SIGN.
2.10. CLEARANCE BAR.
2.11. OPTIONAL FLAG POLE.

GRAPHIC SCALE
10 5 0 10 20 30
1 INCH = 10 FEET

SHEET 5 OF 11

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U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

REVISIONS:

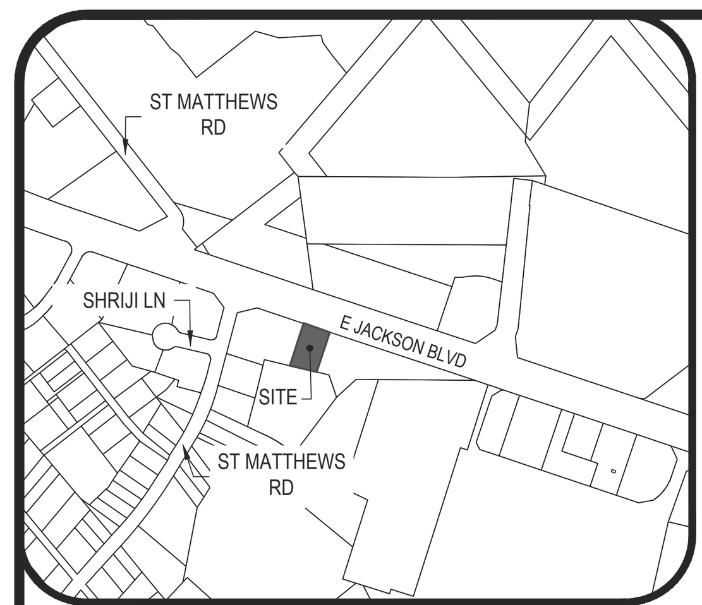
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 054296 JACK HOBBS 2/10/2026

SITE PLAN

FOR SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
503 E JACKSON BLVD
ERWIN, NC

PROJECT:	MB-482 SCOOTER'S
DESIGN BY:	YMS
DRAWN BY:	YMS
CHECK BY:	JH
SCALE:	1"=10'
DATE:	02/10/2026

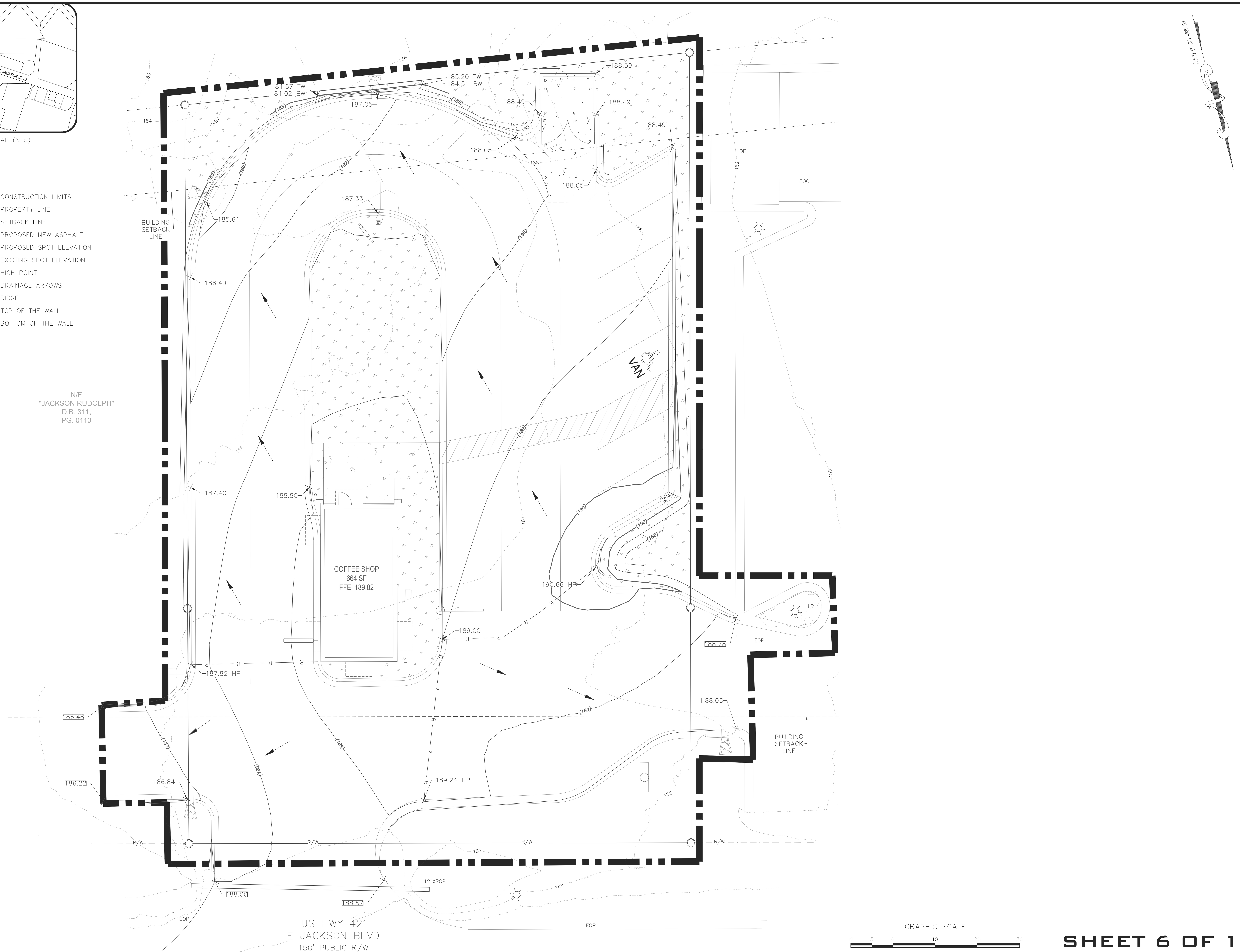
ECLS



VICINITY MAP (NTS)

LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE
- SETBACK LINE
- PROPOSED NEW ASPHALT
- 382.79 PROPOSED SPOT ELEVATION
- 392.79 EXISTING SPOT ELEVATION
- HP HIGH POINT
- DRAINAGE ARROWS
- R RIDGE
- TW TOP OF THE WALL
- BW BOTTOM OF THE WALL



GRAPHIC SCALE

1 INCH = 10 FEET

SHEET 6 OF 11

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U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

REVISIONS:

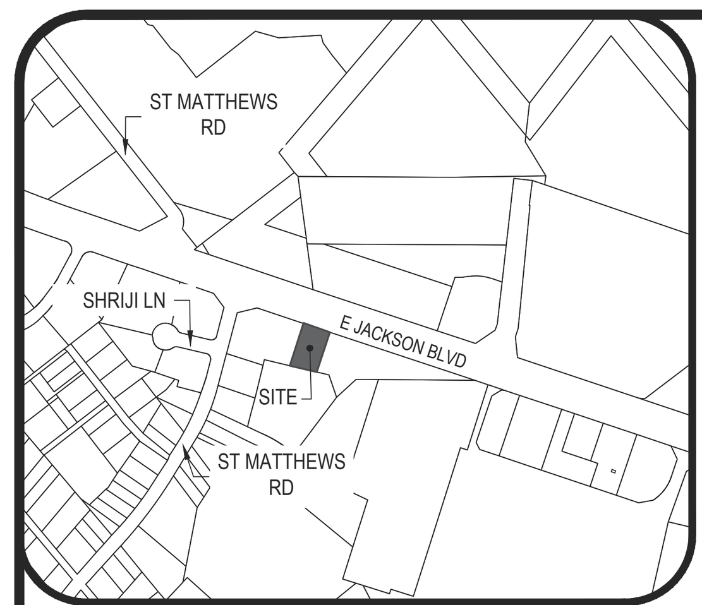
NORTH CAROLINA PROFESSIONAL SEAL 054298 ENGINEER JACK HOBBS
2/10/2026

GRADING PLAN

SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
503 E JACKSON BLVD
ERWIN, NC

PROJECT:	MB-482 SCOOTER'S
DESIGN BY:	YMS
DRAWN BY:	YMS
CHECK BY:	JH
SCALE:	1"=10'
DATE:	02/10/2026

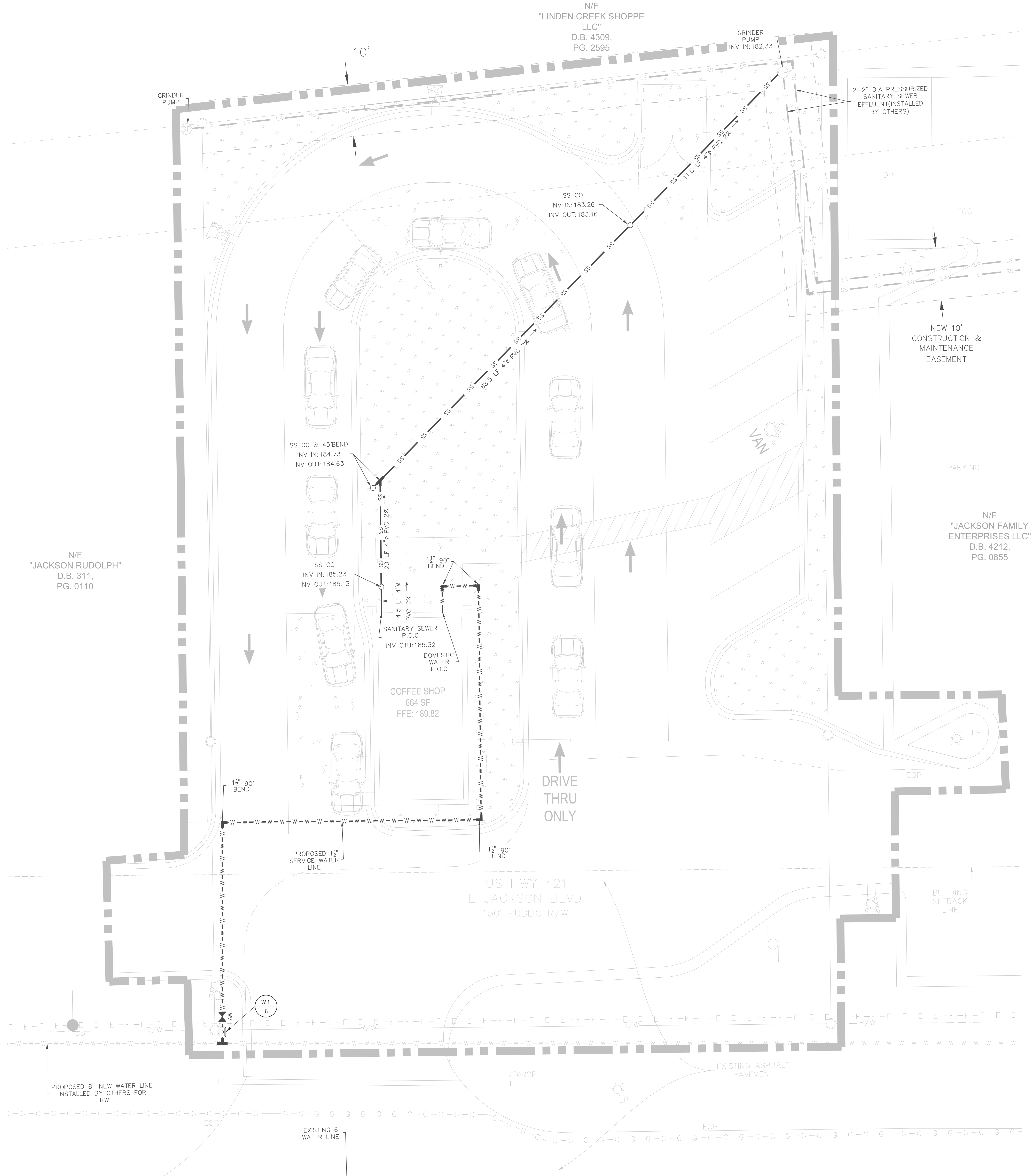
ECLS



VICINITY MAP (NTS)

LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE
- SETBACK LINE
- ADJOINERS LINE
- EASEMENT LINE
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED NEW ASPHALT
- PROPOSED CONCRETE
- PROPOSED PLANTING
- CO CLEANOUT



NOTES:

1.THE DAILY FLOW FOR DESIGN FOR THIS 664 SF CARRY-OUT ONLY RESTAURANT IS 332 GPD (50 GPD/100 SF X 664 SF) PER THE METHOD PRESCRIBED BY 15A NCAC 02T.0114.

2.THIS PROJECT IS INTENDED TO BE A FULLY ELECTRIC FACILITY. NO NATURAL GAS OR OTHER COMBUSTIBLE GAS SERVICE IS PROPOSED.

3.ELECTRICAL SERVICE ROUTING AND DESIGN ARE NOT PART OF THIS PROJECT SCOPE AND WILL BE PREPARED BY OTHERS.

GRAPHIC SCALE

10 5 0 10 20 30

1 INCH = 10 FEET

SHEET 7 OF 11

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U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

REVISIONS:

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 054298 JACK HOBBS 2/10/2026

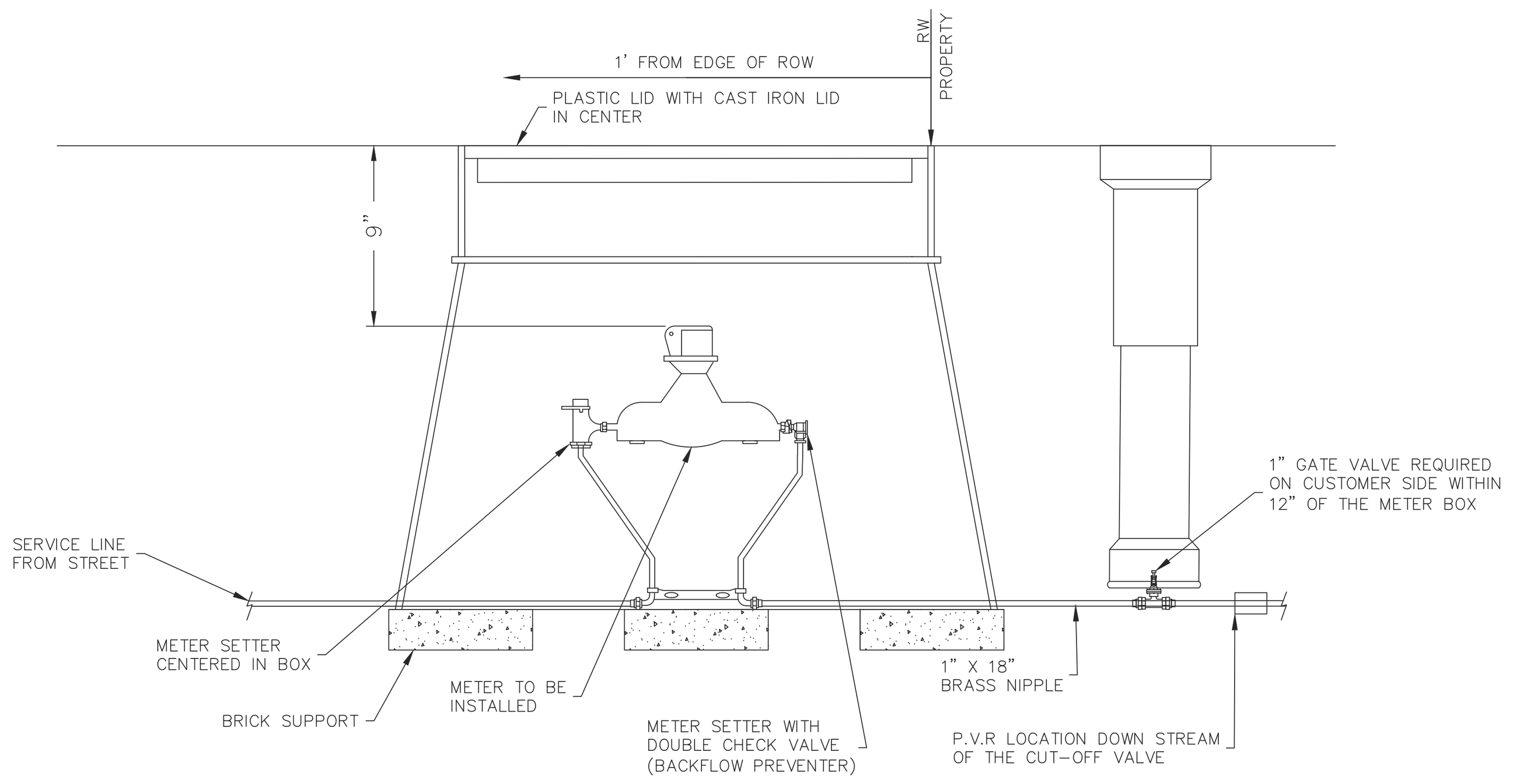
UTILITY PLAN

FOR

SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
503 E JACKSON BLVD
ERWIN, NC

PROJECT:	MB-482 SCOOTER'S
DESIGN BY:	YMS
DRAWN BY:	YMS
CHECK BY:	JH
SCALE:	1"=10'
DATE:	02/10/2026

ECLS



1. METER AND SERVICE LINE NOT INCLUDED IN CONTRACT UNLESS SPECIFIED.
2. STONE INCLUDED IN PRICE OF METER BOX.
3. METER SIZE AS NOTED ON PLANS.
4. ALL BRASS FITTINGS MUST BE COMPRESSION TYPE

W1/8 TYPICAL 1" METER SETTER INSTALLATION DETAIL
NTS

SHEET 8 OF 11

ECLS GLOBAL, INC
U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

REVISIONS:

NORTH CAROLINA PROFESSIONAL SEAL 054296 ENGINEER JACK HOBBS 2/10/2026

UTILITY DETAILS

FOR
SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
11808 MIRACLE HILLS DR, SUITE 400
OMAHA, NE 68154

PROJECT:	MB-482 SCOOTER'S
DESIGN BY:	YMS
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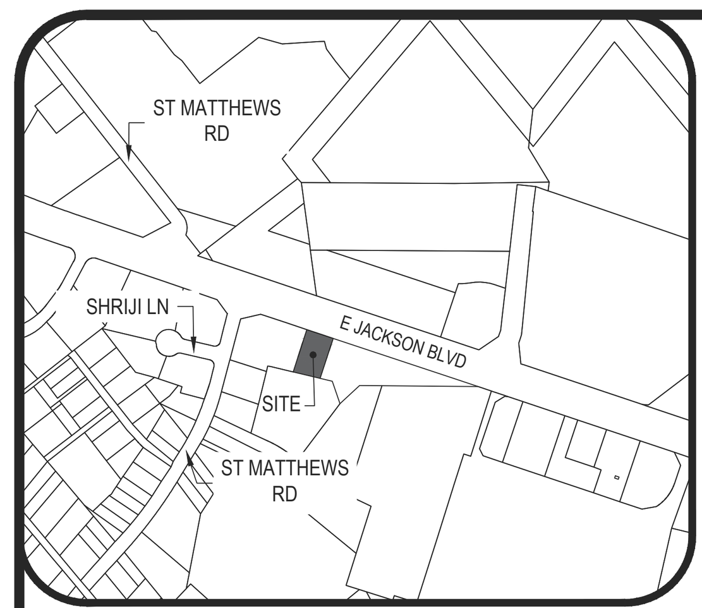
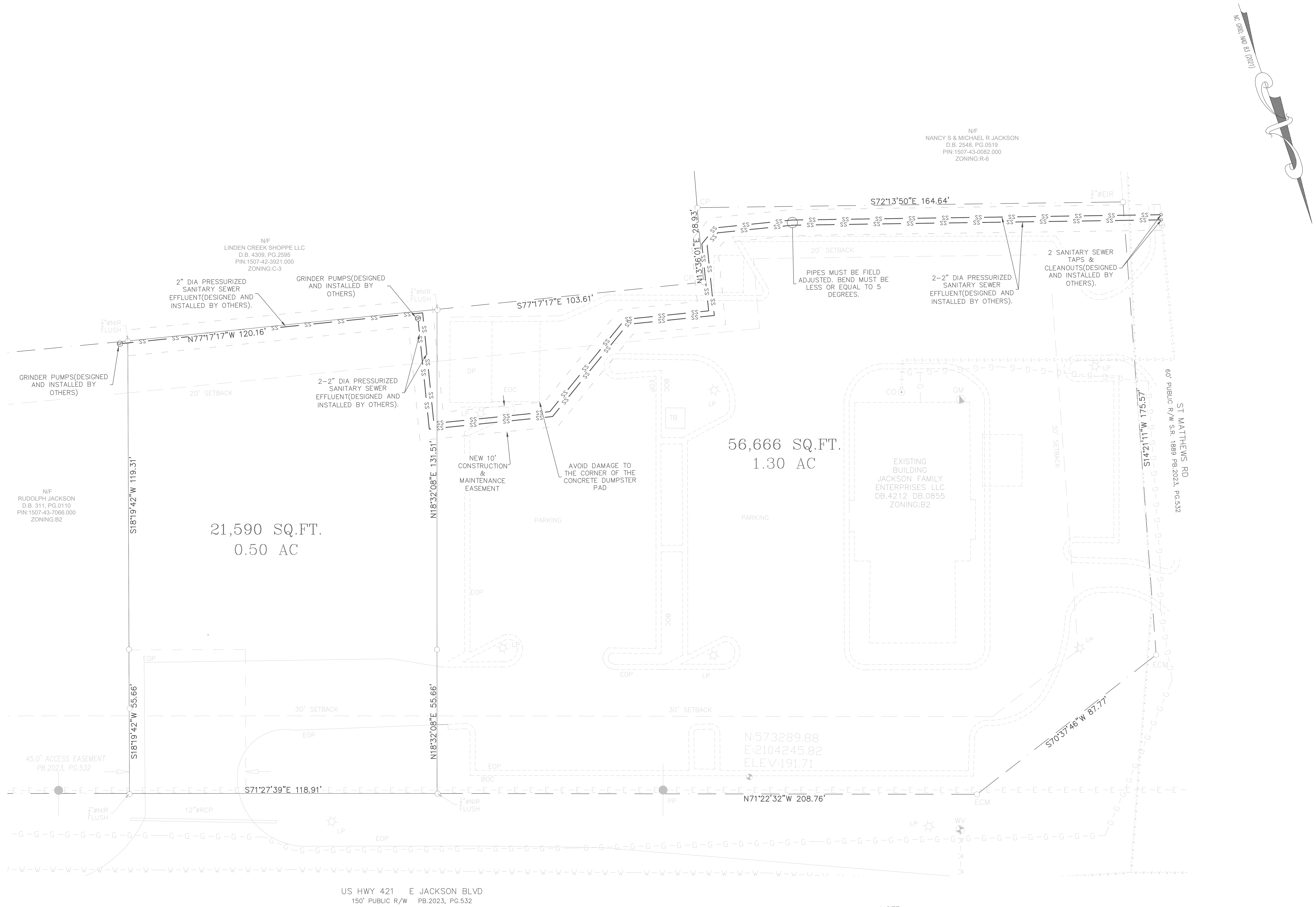
SCALE:	NTS
DATE:	02/10/2026

ECLS



VICINITY MAP (NTS)



NOTE:

AN EASEMENT PLAT AND DESIGN WILL BE PREPARED PER HRW SPECIFICATIONS FOLLOWING NOTICE OF THE ACCEPTABILITY OF THE GRINDER PUMP AND EFFLUENT PIPING LOCATION.

GRAPHIC SCALE

20 10 0 20 40 60

1 INCH = 20 FEET

SHEET 9 OF 11

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U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) C0# C-4175

REVISIONS:

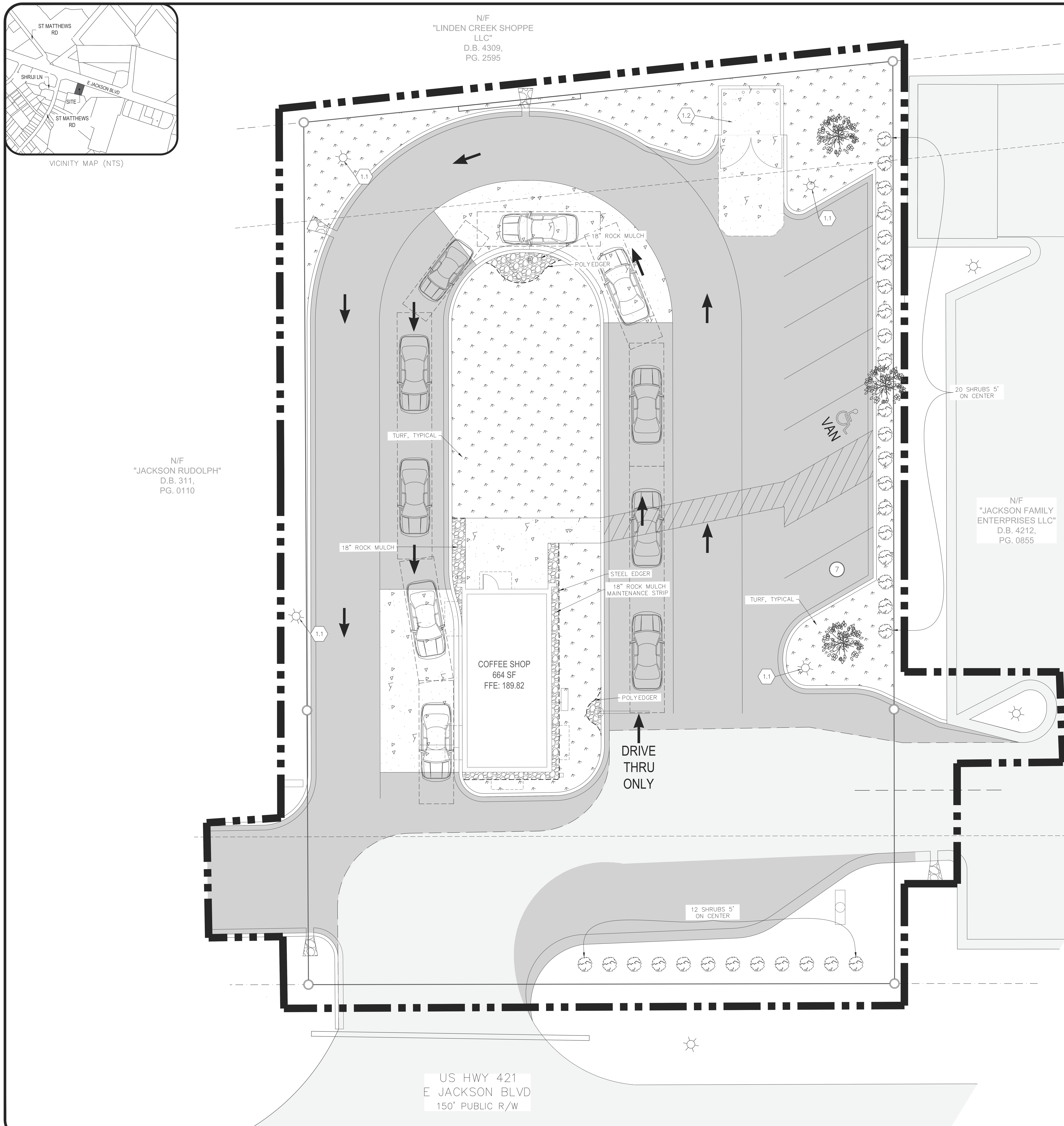
NORTH CAROLINA PROFESSIONAL SEAL 2/10/2026 ENGINEER JACK HOBBS

PRESSURE SANITARY SEWER SCHEMATIC

SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
11808 MIRACLE HILLS DR, SUITE 400
OMAHA, NE 68154

PROJECT:	MB-482 SCOOTER'S
DATE OF SURVEY:	10/17/2025
SURVEYED BY:	T.G
DRAWN BY:	Y.S.
CHECK BY:	J.H.
SCALE:	1"=20'
DATE:	02/10/2026

ECLS



LEGEND

- CONSTRUCTION LIMITS
- PROPERTY LINE
- SETBACK LINE
- PROPOSED NEW ASPHALT
- PROPOSED CONCRETE
- PROPOSED TURF
- PROPOSED SHADE TREE
- PROPOSED SHRUBS
- PROPOSED PARKING COUNT
- ROCK MULCH
- EDGER

KEYNOTES: #

1 LANDSCAPE ITEMS.
1.1 LIGHT POLE.
1.2 TRASH AREA.

NOTES:

1. AS PER SEC. 36–346 (18) OF THE ERWIN CODE 1.OF ORDINANCES:

A. SHADE TREES SHALL BE WILLOW OAKS OR EQUAL AND 6'TALL AT PLANTING.
B. ORNAMENTAL TREES SHALL BE CRAPE MYRTLE OR EQUAL AND 6'HIGH AT PLANTING.
C. SHRUBS SHALL BE AZALEAS OR EQUAL AND 3 GALLONS AT PLANTING.
D. GROUND COVER SHALL BE FESCUE GRASS OR EQUAL.

2. THE TRASH AREA SHALL BE SCREENED SO AS NOT TO BE VISIBLE FROM THE VIEW OF ADJACENT STREETS AND PROPERTIES.

3. SHADE TREES PROPOSED: 3 TOTAL IN LOCATIONS SHOWN.

4. SHRUBS WILL BE PLANTED AT A MINIMUM RATE OF 8 PER 40'. SHRUBS PROPOSED: 32 TOTAL IN LOCATIONS SHOWN.

GRAPHIC SCALE

10 5 0 10 20 30

1 INCH = 10 FEET

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U.S. VETERAN-OWNED
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COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

REVISIONS:

NORTH CAROLINA PROFESSIONAL SEAL 054296 ENGINEER JACK HOBBS 2/10/2026

LANDSCAPE PLAN

FOR
SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
503 E JACKSON BLVD
ERWIN, NC

PROJECT:	MB-482 SCOOTER'S
DESIGN BY:	YMS
DRAWN BY:	YMS
CHECK BY:	JH
SCALE:	1"=10'
DATE:	02/10/2026

ECLS

INSPECTION AND ACCEPTANCE:

1. LANDSCAPE WORK WILL BE INSPECTED FOR ACCEPTANCE IN PARTS AGREEABLE TO THE OWNER, PROVIDED WORK OFFERED FOR INSPECTION IS COMPLETE, INCLUDING MAINTENANCE, FOR THE PORTION IN QUESTION.
2. AT THE CONCLUSION OF THE ESTABLISHMENT PERIOD, WHICH WILL BE ONE YEAR FOLLOWING INITIAL INSTALLATION A FINAL INSPECTION OF PLANTING WILL BE MADE TO DETERMINE THE CONDITIONS OF AREAS SPECIFIED FOR LANDSCAPING.
3. WHEN INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL RE-INSPECTED BY OWNER AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS FROM SITE.

PLANTING NOTES:

1. UPON APPROVAL OF STAKING LOCATIONS CONTRACTOR SHALL EXCAVATE PLANTING HOLES CENTERED AT STAKED LOCATIONS.
2. DIG HOLES AS DETAILED AND TO A DIAMETER A MINIMUM OF TWO TIMES THE DIAMETER OF THE ROOT BALL OR CONTAINER.
3. ALL PLANTING AND SEEDING AREAS SHALL BE PREPARED PRIOR TO INSTALLATION ACTIVITIES WITH A HARLEY POWER BOX RAKE OR EQUAL TO PROVIDE A FIRM PLANTING BED FREE OF STICKS, RUBBISH, FOREIGN MATERIALS AND UNDESIRABLE PLANTS AND THEIR ROOTS. REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSIONS.
4. SET BALLED AND BURLAPPED (B&B) STOCK ON LAYER OF COMPACTED PLANTING SOIL MIXTURE, PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF ALL AT SAME ELEVATION AS ADJACENT FINISHED LANDSCAPE GRADES.
5. ROOT FLARE OF THE TREE MUST BE ABOVE FINISHED GRADE.
6. CUT ALL CORDS AND TWIN AND REMOVE WIRE BASKET AND BURLAP FROM TOP AND SIDES OF BALLS; RETAIN BURLAP ON BOTTOMS.
7. WHEN SET, PLACE ADDITIONAL PLANTING SOIL BACKFILL AROUND BASE AND SIDES OF BALL, AND WORK EACH LAYER TO SETTLE BACKFILL AND ELIMINATE VOIDS AND AIR POCKETS.
8. WHEN EXCAVATION IS APPROXIMATELY 2/3 FULL, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL.
9. REPEAT WATERING UNTIL NO MORE IS ABSORBED. WATER AGAIN AFTER PLACING FINAL LAYER OF BACKFILL.
10. FOR CONTAINER GROWN STOCK, SAME AS FOR BALLED AND BURLAPPED STOCK, EXCEPT CUT CONTAINERS ON SIDES INTO QUARTERS WITH SHEAR. REMOVE CONTAINER BEFORE SETTING PLANT SO AS NOT TO DAMAGE ROOT BALLS.
11. WATER EACH PLANT WITHIN 2 HOURS OF PLANTING.
12. ALL PLANTINGS TO BE MULCHED UNLESS OTHERWISE NOTED ON THE PLAN.
13. PLACE 3-INCH THICKNESS OF MULCH AROUND TREES AND SHRUBS WITHIN A PERIOD OF 48 HOURS AFTER THE SECOND WATERING.
14. DO NOT PLACE MULCH IN DIRECT CONTACT WITH TRUNKS OR STEMS.
15. UNLESS OTHERWISE NOTED/INDICATED, ALL PLANT BEDS SHALL RECEIVE 3" DEPTH LOCALLY AVAILABLE 3/4" BUFF LIMESTONE ROCK MULCH, OVER WEED MAT. SUBMIT MULCH SAMPLE FOR OWNER APPROVAL.
16. TREE SAUCER MULCH TO BE THREE INCHES (3") DEPTH NATURAL DOUBLE-SHRED HARDWOOD MULCH FOR TREES OUTSIDE OF PLANT BED. INSTALL PER TREE PLANTING DETAIL.

MAINTENANCE NOTES:

1. WHEN INSPECTED LANDSCAPE WORK DOES NOT COMPLY WITH REQUIREMENTS, REPLACE REJECTED WORK AND CONTINUE SPECIFIED MAINTENANCE UNTIL RE-INSPECTED BY OWNER AND FOUND TO BE ACCEPTABLE. REMOVE REJECTED PLANTS AND MATERIALS FROM SITE.
2. BEGIN MAINTENANCE IMMEDIATELY AFTER PLANTING.
3. MAINTAIN PLANT MATERIAL INCLUDING WATERING FOR ONE YEAR AFTER ACCEPTANCE BY OWNER. IT IS CONTRACTORS RESPONSIBILITY FOR COORDINATE WATERING.
4. TRIM, PRUNE, REMOVE CLIPPINGS AND DEAD OR BROKEN BRANCHES, AND TREAT PRUNED AREAS AND OTHER WOUNDS.
5. IT IS THE CONTRACTOR'S OPTION WHETHER OR NOT TO STAKE TREES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TREES IN AN UPRIGHT POSITION THROUGHOUT THE ONE-YEAR GUARANTEE PERIOD.

GUARANTEE AND REPLACEMENTS:

1. PLANT MATERIAL SHALL BE GUARANTEED FOR ONE FULL YEAR AFTER OWNER ACCEPTANCE AND SHALL BE ALIVE AND IN SATISFACTORY CONDITION AT THE END OF THE GUARANTEE PERIOD. SUCH GUARANTEE EXCLUDES VANDALISM.
2. AT THE END OF THE ONE-YEAR GUARANTEE PERIOD, INSPECTION WILL BE MADE BY THE OWNER UPON WRITTEN NOTICE BY THE CONTRACTOR AT LEAST FIVE DAYS BEFORE THE ANTICIPATED DATE. ANY PLANT MATERIAL REQUIRED UNDER THE CONTRACT THAT IS DEAD OR NOT IN SATISFACTORY CONDITION, AS DETERMINED BY THE OWNER, SHALL BE REMOVED FROM THE SITE, AND SHALL BE REPLACED AS SOON AS CONDITIONS PERMIT DURING THE NORMAL PLANTING SEASONS.
3. THE OPINION OF THE OWNER SHALL GOVERN IN ANY AND ALL DISPUTES BY THE CONTRACTOR REGARDING THE CONDITION AND DISPOSITION OF UNSATISFACTORY MAINTENANCE PROCEDURES OR REJECTED PLANTS.
4. ALL REPLACEMENTS SHALL BE PLANT MATERIAL OF THE SAME KIND AND SIZE AS SPECIFIED IN THE PLANT LIST. REPLACEMENT COSTS SHALL BE BORNE BY THE CONTRACTOR.
5. REPLACEMENT PLANTINGS REQUIRED AT THE END OF THE GUARANTEE PERIOD ARE NOT TO BE GUARANTEED. THE PLANT MATERIAL IS SUBJECT TO INSPECTION AND REJECTION BY THE OWNER BEFORE AND AFTER PLANTING.

TURF RESTORATION NOTES:

1. UNLESS OTHERWISE NOTED/INDICATED EDGE RESTRAINT BETWEEN PLANTING BEDS AND TURF SHALL BE BLACK COMMERCIAL GRADE STEEL LANDSCAPE EDGER, 1/8" THICKNESS. ANCHOR EVERY 18" ON-CENTER (MINIMUM). SUBMIT SAMPLE TO OWNER FOR APPROVAL.
2. WHERE NOTED/INDICATED, EDGE RESTRAINT BETWEEN LANDSCAPE BEDS AND TURF SHALL BE BLACK COMMERCIAL GRADE 5.5" POLYETHYLENE EDGING WITH 1" BULL NOSE. ANCHOR EVERY 18" ON-CENTER (MINIMUM). SUBMIT SAMPLE TO OWNER FOR APPROVAL.
3. THE ESTABLISHMENT PERIOD FOR TURF SHALL BEGIN IMMEDIATELY AFTER INSTALLATION, WITH THE APPROVAL OF THE OWNER, AND CONTINUE UNTIL THE DATE THAT THE OWNER PERFORMS A FINAL INSPECTION.
4. THE ESTABLISHMENT PERIOD FOR SODDED & SEEDED AREAS IS 1 YEAR.
5. FERTILIZER SHALL CONFORM TO (SPEC), TYPE 2 PHOSPHOROUS-FREE.
6. FERTILIZER SHALL HAVE A FORMULA (N-P-K) AS DETERMINED BY THE RESULTS OF A SOIL TEST. CONTRACTOR TO CONDUCT SOIL TEST AND PROVIDE RESULTS ALONG WITH RECOMMENDED FERTILIZER FORMULA TO OWNER FOR REVIEW AND APPROVAL PRIOR TO APPLICATION.
7. TOPSOIL SHALL BE SALVAGED AND RESPREAD ON SITE. IMPORT TOPSOIL, IF NEEDED, SHALL CONFORM TO (SPEC). 6" OF TOPSOIL SHALL BE PLACED IN ALL SEEDED AND SODDED AREAS, EXCEPT FILTRATION BASIN. SEE CIVIL FOR FILTRATION BASIN DETAIL AND SOILS.
8. INSTALLATION OF SOD SHALL OCCUR WITHIN ONE (1) WEEK OF COMPLETING THE GRADING.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR WATER DURING THE PLANTING ESTABLISHMENT PERIOD.
10. PLACE ALL SOD STRIPS WITH LONG EDGES PARALLEL TO THE CONTOURS. STAGGERING ALL JOINTS ALTERNATIVELY WITHOUT SPACE BETWEEN. SECURE THE SOD TO SLOPES 4:1 OR GREATER WITH BIODEGRADABLE ANCHOR SYSTEMS.
11. TURF SOD SHALL CONFORM TO (SPEC); SOD SPECIES COMPOSITION SHALL BE LOW MAINTENANCE TURF.

CODES AND INSPECTION:

1. THE ENTIRE INSTALLATION SHALL FULLY COMPLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES AND WITH THE ESTABLISHED CODES ALLOCABLE THERETO.
2. THE CONTRACTOR SHALL TAKE OUT ALL REQUIRED PERMITS, ARRANGE FOR ALL NECESSARY INSPECTION, AND PAY ANY FEES AND EXPENSES IN CONJUNCTION WITH THE SAME AS PART OF THE WORK UNDER THIS CONTRACT.

QUALITY ASSURANCE:

1. ALL WORK AND MATERIALS TO BE IN FULL ACCORDANCE WITH LATEST RULES AND REGULATIONS OF THE DIVISION OF INDUSTRIAL SAFETY, THE UNIFORM PLUMBING CODE, NATIONAL ELECTRIC CODE, AMERICANS WITH DISABILITIES, AND OTHER APPLICABLE LAWS OR REGULATION.
2. NOTHING IN THESE DRAWINGS OR SPECIFICATIONS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
3. FURNISH, WITHOUT EXTRA CHARGE, ANY ADDITIONAL MATERIAL AND LABOR AS REQUIRED TO COMPLY WITH THESE RULES AND REGULATIONS, THOUGH THE WORK IS NOT MENTIONED IN THESE PARTICULAR CONSTRUCTION DOCUMENTS.

PROTECTION OF EXISTING CONDITIONS:

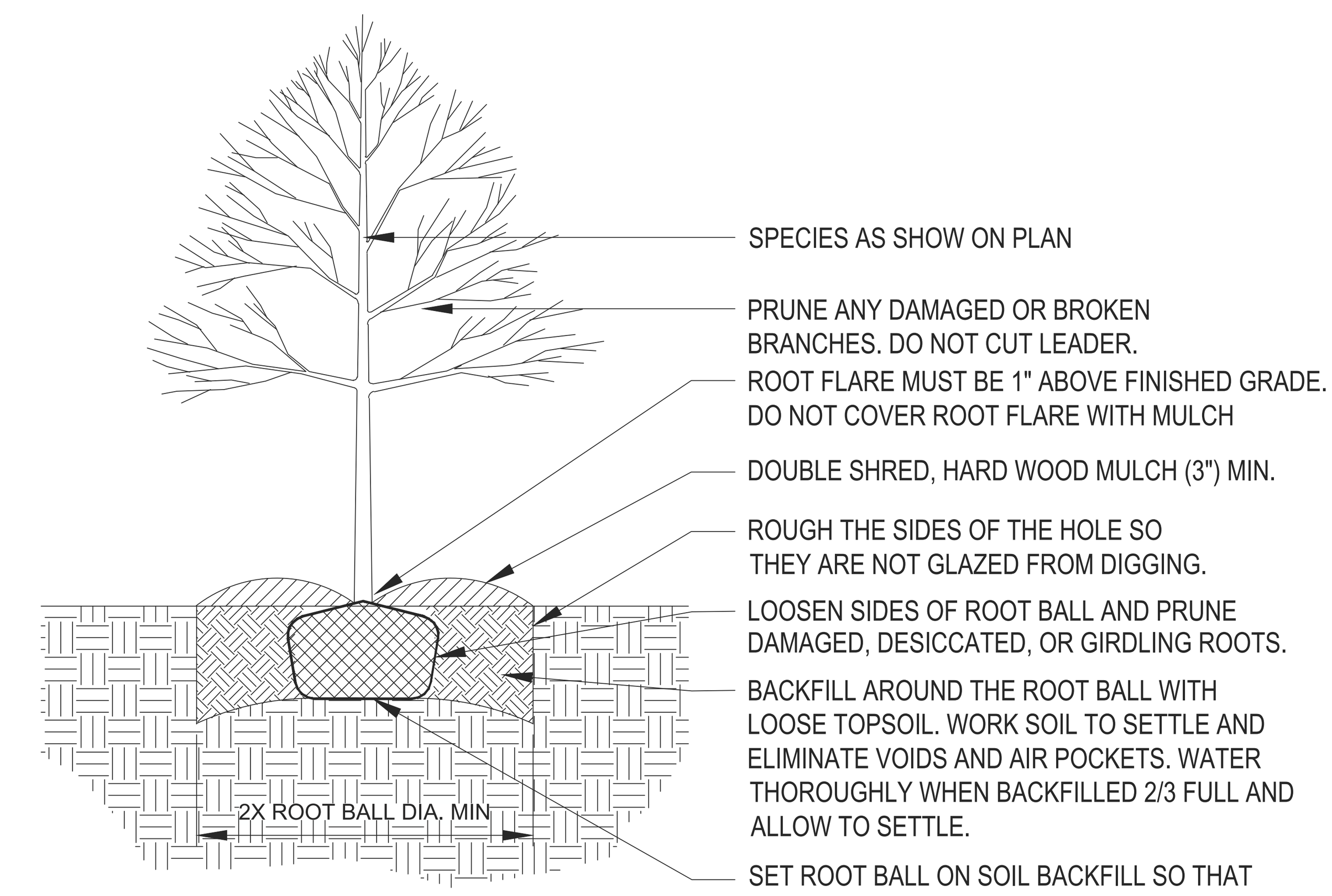
1. BECOME ACQUAINTED WITH ALL SITE CONDITIONS. LOCATE EXISTING UTILITIES AND EQUIPMENT TO REMAIN. SHOULD UTILITIES OR OTHER WORK NOT SHOWN ON THE DRAWINGS BE FOUND DURING EXCAVATIONS, PROMPTLY NOTIFY ENGINEER. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR ANY AND ALL DAMAGE ARISING FROM OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN ON DRAWINGS.
2. TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING SITE CONDITIONS. REPAIR ANY DAMAGED ITEM TO ITS ORIGINAL CONDITION OR FURNISH AND INSTALL EQUIVALENT REPLACEMENT AT NO ADDITIONAL COST TO OWNER.

COORDINATION:

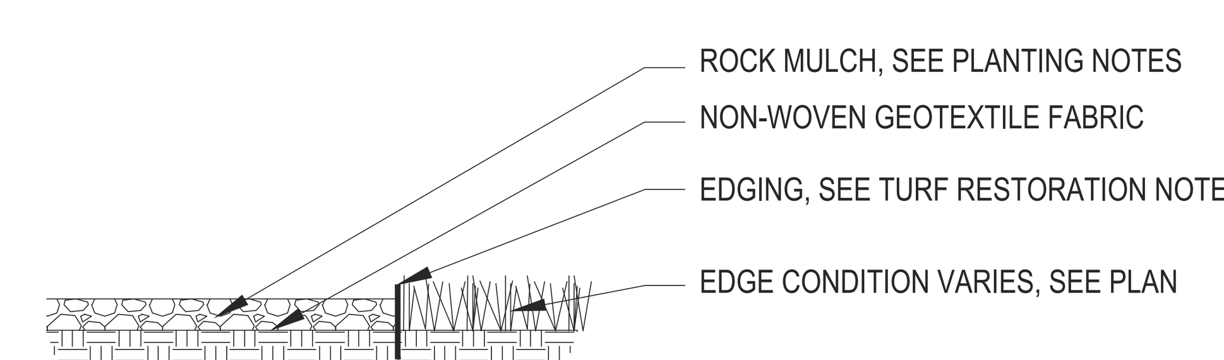
1. SCHEDULE AND COORDINATE WORK WITH OTHER TRADES TO FACILITATE WORK AND AVOID CONFLICTS IN CONSTRUCTION SEQUENCE AND EQUIPMENT INSTALLATION.
2. REVIEW ENTIRE PLAN SET AND COORDINATE WITH OTHER TRADES AS REQUIRED BY SEQUENCE OF CONSTRUCTION TO ENSURE PROVISION OF MAINLINE AND ELECTRICAL CONDUIT STUB-OUTS AT ALL REQUIRED LOCATIONS.

LANDSCAPE NOTES:

1. PLANT MATERIAL SHALL BE PROVIDED IN THE QUANTITY, SIZE, GENUS, SPECIES, AND VARIETY AS CHOSEN BY THE OWNER/OWNER AS LISTED IN THE PLANT SCHEDULE.
2. PLANT MATERIAL SHALL BE HEALTHY, VIGOROUS STOCK, GROWN IN RECOGNIZED NURSERY IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE AND FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS.
3. OWNER RETAINS THE RIGHT TO INSPECT TREES AND SHRUBS FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS, AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK.
4. NURSERY STOCK SHALL BE DELIVERED DIRECTLY FROM NURSERY. HEEL IN IMMEDIATELY UPON DELIVERY IF NOT TO BE PLANTED WITHIN FOUR HOURS, COVERING WITH MOIST SOIL OR MULCH TO PROTECT FROM DRYING. STORE PLANTS IN SHADE AND PROTECT FROM WEATHER.
5. PROTECTION FROM EXTREMES IN EXPOSURE AND ROUGH HANDLING SHALL BE PROVIDED FOR ALL PLANT MATERIALS DURING TRANSPORT AND STORAGE.
6. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO PLANTING SO THAT A MUTUALLY AGREEABLE TIME MAY BE ARRANGED FOR INSPECTION.
7. LAY OUT INDIVIDUAL TREE AND SHRUB LOCATIONS WITH STAKES CENTERED AT PROPOSED PLANTING LOCATIONS FOR APPROVAL BY OWNER.
8. DO NOT START PLANTING WORK UNTIL LAYOUT IS APPROVED BY THE OWNER.
9. TO ENSURE PROPER INFILTRATION THE LANDSCAPE CONTRACTOR MUST PROVE THE OPEN SUB-GRADE OF ALL PLANTING AREAS AFTER THEIR EXCAVATION IS COMPACTED LESS THAN 200 PSI. THE OWNER OR OWNER'S REPRESENTATIVE MUST BE ONSITE DURING COMPACTION TESTING.
10. ALL GRADED AREAS OF THE SITE THAT ARE DESIGNATED FOR SHRUBS, TREES AND PERENNIALS SHALL HAVE NO LESS THAN 18" OF IMPORTED TOP SOIL, MEETING (SPEC) BORROW.



L1 / 11 DECIDUOUS TREE PLANTING
NTS



L2 / 11 ROCK MULCH WITH EDGER
NTS

NOTE: THESE SPECIFICATIONS ARE PER SCOOTER'S "PROTO" DRAWINGS.

SHEET 11 OF 11

ECLS GLOBAL, INC
U.S. VETERAN-OWNED
19 N. MCKINLEY ST.
COATS, NC 27521
910.897.3257 ECLSGLOBALINC.COM
910.897.2329 (FAX) CO# C-4175

REVISIONS:

NORTH CAROLINA PROFESSIONAL SEAL 054296 2/10/2026 ENGINEER JACK HOBBS

LANDSCAPE DETAILS

FOR
SCOOTER'S COFFEE
MICHAEL R. JACKSON, SR.
11808 MIRACLE HILLS DR, SUITE 400
OMAHA, NE 68154

PROJECT:	MB-482 SCOOTER'S
DESIGN BY:	YMS
DRAWN BY:	YMS
CHECK BY:	JH
SCALE:	NTS
DATE:	02/10/2026

ECLS

GENERAL STRUCTURAL NOTES

BUILDING CODE:

2018 NORTH CAROLINA BUILDING CODE

LOADS:

ROOF:

ROOF LIVE LOAD = 20 PSF (REDUCIBLE PER IBC SECTION 1607.9)
ROOF DEAD LOAD = 20 PSF

SNOW:

Pg = 10 PSF
CE = 1.0
IS = 1.0
CT = 1.0
PF = 7 PSF

ROOF NET UPLIFT = 10 PSF

WIND:

WIND SPEED = 119 MPH 3-SECOND GUST
EXPOSURE = C
RISK CATEGORY II
IW = 1.0

SEISMIC:

RISK CATEGORY II
IE = 1.0
SS = 0.182
S1 = 0.085
SITE CLASS = D
SDS = 0.195
SD1 = 0.137
DESIGN CATEGORY = C
BASIC SEISMIC-FORCE-RESISTING SYSTEM: LIGHT FRAMED WOOD SHEARWALLS
R = 6.5
ANALYSIS PROCEDURE USED = EQUIVALENT LATERAL FORCE

FOUNDATIONS:

SOILS REPORT BY: NONE DONE.

DESIGN SOIL BEARING PRESSURE :
CONTINUOUS FOOTINGS = 1500 PSF

BOTTOM OF FOOTINGS SHALL BEAR ON NATIVE SOILS MEETING CLASS 5 PER IBC TABLE 1806.2 AT A DEPTH OF 1'-6" MINIMUM BELOW FINISHED GRADE. FINISHED GRADE IS DEFINED AS THE TOP OF CONCRETE SLAB FOR INTERIOR FOOTINGS AND LOWEST ADJACENT GRADE WITHIN FIVE (5) FEET OF STRUCTURE FOR PERIMETER FOOTINGS. BOTTOM OF FOOTING DEPTHS GIVEN HEREIN ARE MINIMUMS ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND COORDINATING ACTUAL DEPTHS REQUIRED FOR FOOTINGS WITH ARCHITECTURAL PLANS, CIVIL PLANS, AND SITE CONDITIONS. RESOLVE ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION. GEOTECHNICAL ENGINEER TO REVIEW EXCAVATIONS TO VERIFY SOIL CLASS AND APPROPRIATENESS OF BEARING.

CONCRETE:

ALL CONCRETE CONSTRUCTION AND DETAILING SHALL CONFORM TO THE LATEST EDITION OF ACI 318
MINIMUM 28 DAY COMPRESSIVE STRENGTH (F'C) SHALL BE AS FOLLOWS:

SLABS ON GRADE ---------- 3,000 PSI
FOUNDATIONS---------- 3,000 PSI

ALL CONCRETE IS TO BE MECHANICALLY VIBRATED WHEN PLACED, EXCEPT SLABS ON GRADE NEED BE VIBRATED ONLY AROUND UNDER-FLOOR DUCTS, PENETRATIONS, ETC. CONCRETE SHALL BE DEPOSITED AS NEAR AS POSSIBLE TO ITS FINAL POSITION AND SHALL BE PLACED SO AS TO AVOID SEGREGATION. VIBRATING EQUIPMENT SHALL NOT BE USED TO MOVE CONCRETE INTO POSITION. ALL REINFORCING, EMBED PLATES, ANCHORS, ETC, SHALL BE IN PLACE AND PROPERLY SECURED PRIOR TO PLACING CONCRETE. "WET STABBING" IS NOT ALLOWED.

ALL CONCRETE SLABS ON GRADE SHALL BE BOUND BY KEYED OR SAW CUT CONTROL JOINTS AS SHOWN ON THE FOUNDATION PLAN, SUCH THAT THE ENCLOSED AREA DOES NOT EXCEED 150 SQUARE FEET, UNLESS APPROVED OTHERWISE IN WRITING BY THE ARCHITECT. KEYED CONTROL JOINTS NEED TO OCCUR ONLY AT SLAB EDGES LEFT EXPOSED DURING PLACEMENT. ALL OTHER JOINTS MAY BE SAW CUT.

REVIBRATE TOPS OF CAISSONS 15 MINUTES AFTER PLACING CONCRETE.

FLY ASH - IF PERMITTED BY ARCHITECTURAL SPECIFICATIONS OR REQUESTED BY CONTRACTOR, SHALL BE LIMITED TO 18% OF CEMENTITIOUS MATERIALS AND SHALL HAVE A REPLACEMENT FACTOR OF 1.2 RELATIVE TO CEMENT REPLACED.

NO FLY ASH ADDITIVES SHALL BE USED IN FLATWORK OR ARCHITECTURALLY EXPOSED CONCRETE.

REINFORCING:

ALL REINFORCING SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF ACI 318, CRSI SPECIFICATIONS AND HANDBOOK, AND THE STEEL REINFORCING DETAILING MANUAL. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (FY = 60 KSI) DEFORMED BARS FOR ALL BARS UNLESS NOTED OTHERWISE. ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH THE WIRE CONFORMING TO ASTM A82. REINFORCING BARS SHALL NOT BE TACK WELDED. REINFORCING BAR SPACING AS SHOWN ARE MAXIMUM ON CENTER SPACING.
CLEAR CONCRETE COVERAGES SHALL BE AS FOLLOWS:

CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ----------3"
EXPOSED TO EARTH OR WEATHER:
#6 OR LARGER ---------- 2"
#5 AND SMALLER ---------- 1 1/2"
ALL OTHER PER LATEST EDITION OF ACI 318.

LAP SPLICES IN CONCRETE:
(BARS)
LAP SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES AS DESCRIBED IN THE LATEST EDITION OF ACI 318 UNLESS OTHERWISE NOTED. LAP SPLICES IN CONCRETE COLUMNS SHALL BE STANDARD COMPRESSION LAP SPLICES. SPLICES SHALL BE STAGGERED A MINIMUM OF ONE LAP LENGTH.

ALL SPLICE LOCATIONS ARE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER. BENT CORNER BARS SHALL BE PLACED AT ALL CORNERS AND INTERSECTIONS AND SHALL MATCH AND LAP WITH HORIZONTAL BARS AS INDICATED IN THE TYPICAL DETAILS. ALL BENT BARS SHALL BE COLD BENT. ALL VERTICAL REINFORCING SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS UNLESS NOTED OTHERWISE. CONCRETE COLUMN DOWEL EMBEDMENT SHALL BE A STANDARD COMPRESSION DOWEL WITH EMBEDMENT LENGTH ACCORDING TO THE LATEST EDITION OF THE ACI 318.

ALL REINFORCING AND EMBEDDED ITEMS SUCH AS PLATES, BOLTS, ETC. SHALL BE IN PLACE AND PROPERLY SECURED PRIOR TO PLACING GROUT OR CONCRETE. IN NO CASE SHALL ITEMS BE "WET SET" OR STABBED INTO UNSET GROUT OR CONCRETE. REINFORCING SHALL BE SECURED IN PLACE SO AS TO AVOID MOVEMENT DURING PLACEMENT.

WOOD:

SAWN LUMBER:

EACH PIECE OF FRAMING LUMBER SHALL BE GRADED BY AND BEAR THE STAMP OF A RULES WRITING AGENCY RECOGNIZED AND APPROVED BY THE AMERICAN LUMBER STANDARDS COMMITTEE. ALL TIMBER CONSTRUCTION SHALL COMPLY WITH THE LATEST STANDARDS OF THE AMERICAN INSTITUTE FOR TIMBER CONSTRUCTION. THE IN PLACE GRADE OF ALL LUMBER SHALL MEET OR EXCEED THE ORIGINAL GRADE SPECIFIED WHEN GRADED, DEFICIENCIES DUE TO WEATHERING, DRYING, CONSTRUCTION DEFECTS, MIS HANDLING, ETC. SHALL BE CAUSE FOR REJECTION AND SHALL BE REPLACED. ANY SHRINKAGE OR DEFORMATION OF FRAMING MEMBERS DUE TO SEASONING SHALL BE REMEDIED BY REPLACEMENT PRIOR TO PLACING SHEATHING AND OR SUBSEQUENT SUPPORTED MEMBERS.
LUMBER SHALL BE VISUALLY GRADED OR MACHINE STRESS RATED TO MEET THE FOLLOWING MINIMUM PROPERTIES (IN DRY SERVICE CONDITIONS) UNLESS NOTED OTHERWISE:

NOMINAL SIZE……..GRADE
JOISTS
2 X 4…….. D.F. # 1
2 X 6 AND LARGER…….. D.F. # 2
BEAMS
ALL…….. D.F. # 2

LEDGERS AND PLATES
ALL…….. D.F. #2
POSTS
UP TO 4 X 4…….. D.F. # 2
GREATER THAN 4 X 4…… D.F. # 1

STUDS
ALL……..D.F. #2

PLYWOOD:

ALL PLYWOOD SHALL BE APA RATED "CD" SHEATHING OR BETTER WITH EXTERIOR GLUE AND SHALL BEAR THE STAMP OF AN APPROVED TESTING AGENCY. PLACE PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS. IN NO CASE SHALL THE FACE GRAIN BE PARALLEL TO THE SUPPORTS WHERE SUPPORTS ARE SPACED GREATER THAN 2'-0" O.C. STAGGER JOINTS. ALL NAILED ATTACHMENTS SHALL BE ACHIEVED USING COMMON NAILS. WHERE SCREWS ARE INDICATED FOR WOOD TO WOOD ATTACHMENTS, USE WOOD SCREWS. ALL PLYWOOD SHALL BE OF THE FOLLOWING MINIMUM NOMINAL THICKNESS, SPAN/INDEX RATIO AND SHALL BE ATTACHED AS FOLLOWS UNLESS NOTED OTHERWISE:

USE	THICKNESS	SPAN/INDEX RATIO	PANEL EDGE ATTACHMENT SPACING	INTERMEDIATE ATTACHMENT SPACING
ROOF	----------1/2"	---------- 32/16	----------10d AT 6" O.C.	----------10d AT 12" O.C.

WHERE PLYWOOD IS ATTACHED TO WOOD FRAMING MEMBERS, USE 8D COMMON NAILS AT THE SPACING SHOWN IN THE TABLE ABOVE.

WHERE PLYWOOD IS TO BE ATTACHED TO STRUCTURAL HOT ROLLED STEEL MEMBERS, USE HILTI X DNI POWDER DRIVEN FASTENERS INSTALLED THROUGH 2" DIA WASHERS PER I.C.C. REPORT NUMBER ER 1663. SPACING SHALL BE AS NOTED ABOVE

ALTERNATE:

AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFING CONTRACTOR. WHERE ROOF IS TO BE GUARANTEED, IT MAY NOT BE USED WITHOUT PRIOR APPROVAL FROM BUILT-UP ROOF SYSTEM MANUFACTURER. RATED SHEATHING SHALL COMPLY WITH I.C.C. REPORT NO. NER-108, EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

GENERAL:

DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THRU THE ARCHITECT. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER PARTITIONS. PROVIDE 2" SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. DOUBLE UP STUDS AT JAMBS AND AS REQUIRED UNDER BEAMS IN BEARING WALLS. EVERY OTHER STUD OF WOOD FRAME BEARING WALL SHALL HAVE A SIMPSON H3 ANCHOR TOP AND BOTTOM, EXCEPT AT THOSE WALLS WHERE PLYWOOD SHEATHING IS NAILED DIRECTLY TO THE TOP AND BOTTOM PLATES. PROVIDE 2 X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO TABLE 2304.9.1 OF THE INTERNATIONAL BUILDING CODE. WOOD CONNECTORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT AND EQUIVALENT I.C.C. APPROVAL.

POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

a. CONCRETE ANCHORS

i. **MECHANICAL ANCHORS** SHALL HAVE BEEN TESTED AND QUALFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
(1) SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713) OR EQUAL
(2) SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037) OR EQUAL
(3) SIMPSON STRONG-TIE "STRONG-BOLT" (ICC-ES ESR-1771) OR EQUAL

ii. **ADHESIVE ANCHORS** SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308 FOR CRACKED AND UNCRACKED CONCRETE RECOGNITION. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
(1) SIMPSON STRONG-TIE "SET-XP" (ICC-ES ESR-2508) OR EQUAL

DEFERRED SUBMITTALS: (PER 2018 IBC CH. 17)

THE DESIGN OF THE FOLLOWING ITEMS SHALL BE PROVIDED AS "DEFERRED SUBMITTAL" ITEMS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 106.3.4.2.

PREFABRICATED METAL AWNINGS

THE DESIGN OF THE ITEMS LISTED SHALL BE SUBMITTED BY THE CONTRACTOR TO THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE WHO WILL REVIEW THE DOCUMENTS. THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL PROVIDE NOTATION ON THE DOCUMENTS AFTER THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. UPON ACCEPTANCE BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, THE CONTRACTOR SHALL SUBMIT THE DOCUMENTS TO THE BUILDING OFFICIAL. DO NOT INSTALL ANY DEFERRED SUBMITTAL ITEMS UNTIL THE DESIGN HAS BEEN ACCEPTED BY THE BUILDING OFFICIAL

SHOP DRAWINGS:

THE CONTRACTOR SHALL REVIEW AND SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL ITEMS IN ADDITION TO ALL ARCHITECTURAL REQUIREMENTS.
THE MANUFACTURER, CONTRACTOR OR FABRICATOR SHALL CLOUD ALL ITEMS IN THE SHOP DRAWINGS THAT DIFFER FROM THE DETAILS AND DESIGN INTENT ILLUSTRATED IN THE CONTRACT DOCUMENTS. THOSE ITEMS SHALL NOT BE ASSUMED TO BE ACCEPTED UNLESS SPECIFICALLY NOTED IN WRITING BY THE STRUCTURAL ENGINEER. THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE CONSTRUCTION IS IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE SHOP DRAWING REVIEW BY THE STRUCTURAL ENGINEER IS INTENDED AS AN AID TO THE CONTRACTOR ONLY AND CORRECTNESS OF THE SHOP DRAWINGS LIES SOLELY WITH THE CONTRACTOR. IN NO CASE SHALL THE SHOP DRAWINGS REPLACE THE CONTRACT DOCUMENTS. ITEMS THAT HAVE BEEN INCORRECTLY SHOWN ON THE SHOP DRAWINGS OR DIFFER FROM THE CONTRACT DOCUMENTS AND HAVE NOT BEEN NOTED BY THE STRUCTURAL ENGINEER OR ARCHITECT, SHALL NOT BE THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER SHALL BE ALLOWED TO, AT ANY TIME DURING OR AFTER THE SHOP DRAWING REVIEW, CHOOSE TO ALLOW OR NOT ALLOW CHANGES TO THE CONTRACT DOCUMENTS.

THE DRAWINGS IN THE CONSTRUCTION DOCUMENTS SHALL NOT BE USED FOR SHOP DRAWINGS IN ANY WAY, SHAPE, OR FORM.

THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DIMENSIONS. THE CORRECTNESS OF ALL DIMENSIONS RESTS WITH THE CONTRACTOR AND SHALL BE VERIFIED WITH THE ARCHITECT.

ALL LAYOUTS AND DESIGNS PERFORMED BY OTHERS SHALL BE SEALED BY A CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE IN WHICH THE WORK TAKES PLACE.

GENERAL:

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2021 INTERNATIONAL BUILDING CODE. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO REPRESENT MEANS OR METHODS OF CONSTRUCTION. THE STRUCTURAL DRAWINGS ARE INTENDED TO REPRESENT THE FINISHED PRODUCT WITH RESPECT TO THE STRUCTURAL ELEMENTS. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. THE STRUCTURAL ENGINEER (INCLUDING SITE OBSERVATIONS AND VISITS) SHALL IN NO WAY BE RESPONSIBLE FOR CONSTRUCTION MEASURES INCLUDING BUT NOT LIMITED TO BRACING, SHORING, SUPPORT OF LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY CONSTRUCTION, ETC. THE STRUCTURAL ENGINEER (INCLUDING SITE OBSERVATIONS AND VISITS) SHALL IN NO WAY BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENTAL TO CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL DRAWINGS. ALL DISCREPANCIES SHALL BE RESOLVED IN WRITING PRIOR TO THE START OF CONSTRUCTION.

ALL EXTERIOR CONCRETE SLABS ON GRADE SUCH AS SIDEWALKS, DRIVEWAYS, ETC. SHALL BE PER THE CIVIL AND ARCHITECTURAL DRAWINGS AND PER THE SOILS REPORT. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR EXTERIOR SLABS ON GRADE.

CONSTRUCTION MATERIALS SHALL BE PLACED ON ABOVE GRADE FRAMING IN SUCH A WAY THAT WILL SPREAD THE LOADS SO AS NOT TO EXCEED THE LIVE LOADS STATED IN THE "LOADS" SECTION OF THE GENERAL STRUCTURAL NOTES.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY AND COORDINATE LOCATIONS AND INSTALLATION REQUIREMENTS FOR ITEMS INCLUDING BUT NOT LIMITED TO OPENINGS, EMBEDDED ITEMS, INSERTS, UNDERGROUND WORK, ETC. WITH ALL ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS AND WITH THE APPROPRIATE TRADES FOR THOSE ITEMS. ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION.

WHERE OPTIONS ARE NOTED IN THE CONTRACT DOCUMENTS, THEY ARE FOR THE CONTRACTOR'S CONVENIENCE. IF THE CONTRACTOR CHOOSES AN OPTION, THEY SHALL BE RESPONSIBLE FOR COORDINATING ALL DETAILS AND OTHER REQUIREMENTS NECESSARY TO THAT OPTION.

CONSTRUCTION SHALL CONFORM TO THE DETAILS SHOWN IN THE DRAWINGS. WHERE A DETAIL IS NOT SHOWN, THE WORK SHALL CONFORM TO SIMILAR CONSTRUCTION ON THE PROJECT. WHERE NOTES, DETAILS, GENERAL STRUCTURAL NOTES, ETC. CONFLICT, THE GREATEST REQUIREMENT SHALL GOVERN.

CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT.

DETAILS INDICATING MASONRY WALL CONSTRUCTION ARE SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT MASONRY COURSES, DIMENSIONS, AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS.

TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SHALL BE PER IBC SECTION 1704 AND SHALL BE PERFORMED FOR THE FOLLOWING ITEMS:

1. **GRADING AND EXCAVATION:** SHALL BE INSPECTED AS REQUIRED BY THE GEOTECHNICAL REPORT. STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY GRADING OR EXCAVATION INSPECTIONS.

2. **CONCRETE:** SHALL BE INSPECTED DURING THE TAKING OF TEST SPECIMENS AND DURING PLACEMENT.

3. **BOLTS IN CONCRETE:** (CONTINUOUS) SHALL BE INSPECTED DURING THE PLACEMENT OF CONCRETE AROUND THE BOLTS

4. **POST INSTALLED ANCHORS:** (CONTINUOUS) SHALL BE INSPECTED DURING THE PLACEMENT OF MECHANICAL ANCHORS TO ENSURE PROPER TIGHTENING AND DURING THE INSTALLATION OF ADHESIVE ANCHORS IN ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS.

5. **REINFORCING STEEL:** (PERIODIC) SHALL BE INSPECTED DURING PLACEMENT OF THE REINFORCING STEEL PLACED FOR CONCRETE REQUIRING SPECIAL INSPECTION AS NOTED ABOVE. THE REINFORCING STEEL SHALL BE INSPECTED PRIOR TO ORDERING AND PLACING CONCRETE.

MASONRY CONSTRUCTION:

1. STRUCTURAL MASONRY:

A.DURING PREPARATION OF PRISMS.
B. INSPECTION OF IN-PLACE REINFORCING FOR CONFORMANCE PRIOR TO THE DELIVERY OF GROUT TO THE JOBSITE.
C. CONTINUOUS INSPECTION DURING PLACEMENT OF GROUT.
D. CLEANOUTS PRIOR TO CLOSING.

THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR COMPLIANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE ENGINEER OR ARCHITECT OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR. THE CONTRACTOR SHALL THEN CORRECT THE WORK AS REQUIRED. IF THE WORK PROCEEDS UNCORRECTED THE SPECIAL INSPECTOR SHALL BRING THE DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND THE BUILDING OFFICIAL.

THE RESPONSIBLE PARTY PERFORMING THE INSPECTIONS SHALL SUBMIT THE APPROPRIATE FINAL INSPECTION FORMS TO THE BUILDING OFFICIAL UPON COMPLETION OF THE WORK. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR INSPECTIONS PERFORMED BY OTHER PARTIES NOT DIRECTLY EMPLOYED BY THE STRUCTURAL ENGINEER OF RECORD.

ABBREVIATIONS

A.B.C.	AGGREGATE BASE COURSE	C.M.U.	CONCRETE MASONRY UNIT
A/C	AIR CONDITIONER	CONN	CONNECTION
A.F.F.	ABOVE FINISHED FLOOR	CONT	CONTINUOUS
ALT.	ALTERNATE	DEG	DEGREE
A.B.	ANCHOR BOLT	D.L.	DEAD LOAD
@ AT	(MEASUREMENT)	⌀OR DIA.	DIAMETER
BM	BEAM	DN	DOWN
B.F.F	BELOW FINISHED FLOOR	DWG(S)	DRAWING(S)
B.O.B.	BOTTOM OF BEAM	E.O.S.	EDGE OF SLAB
B.O.D.	BOTTOM OF DECK	EQ	EQUAL
B.O.F.	BOTTOM OF FOOTING	EQUIP	EQUIPMENT
BRG	BEARING	EXP. BOLT	EXPANSION BOLT
C.I.P.	CAST IN PLACE	EXP. JT (E.J.)	EXPANSION JOINT
C.L.	CENTERLINE	E.W.	EACH WAY
C.L.B.	CENTERLINE OF BEAM	F.F.	FINISHED FLOOR
C.L.C.	CENTERLINE OF COLUMN	F.O.M.	FACE OF MEMBER
C.L.F.	CENTERLINE OF FOOTING	F.O.S.	FACE OF STEEL
C.L.L.	CENTERLINE OF LEDGER	F.O.W.	FACE OF WALL
C.L.W.	CENTERLINE OF WALL	GA	GAGE
CLR	CLEAR	GALV	GALVANIZED
CONC	CONCRETE	G.S.N.	GENERAL STRUCT'L NOTES
CONC C.J.	CONCRETE CONTROL JOINT	GLB (GLULAM)	GLUED-LAMINATED BEAM
CONC S.J.	CONCRETE SAWCUT JOINT	I.F.W.	INSIDE FACE OF WALL
HORIZ	HORIZONTAL	SLH	SHORT LEG HORIZONTAL
K(KIP)	1000 POUNDS	SLV	SHORT LEG VERTICAL
L.L.	LIVE LOAD	SIM	SIMILAR
LBS	(#) POUNDS	SQ.	SQUARE
LLH	LONG LEG HORIZONTAL	STD	STANDARD
LLV	LONG LEG VERTICAL	T.L.	TOTAL LOAD
LSH	LONG SIDE HORIZONTAL	T.O.B.	TOP OF BEAM
LSV	LONG SIDE VERTICAL	T.O.D.	TOP OF DECK
MFR'(S)	MANUFACTURER'(S)	T.O.F.	TOP OF FOOTING
MAS C.J.	MASONRY CONTROL JOINT	T.O.L.	TOP OF LEDGER
MECH'L	MECHANICAL	T.O.M.	TOP OF MASONRY
MLB	MICROLLAM BEAM	T.O.P.	TOP OF PLATE
N/A	NOT APPLICABLE	T.O.S.	TOP OF STEEL
N.T.S.	NOT TO SCALE	T.O.W.	TOP OF WALL
O.C.	ON CENTER	TYP	TYPICAL
O.F.W.	OUTSIDE FACE OF WALL	U.N.O.	UNLESS NOTED OTHERWISE
OPP	OPPOSITE	VERT	VERTICAL
P.C.	PRECAST CONCRETE	W.W.F.	WELDED WIRE FABRIC
P.L.F	POUNDS PER LINEAR FOOT	W/	WITH
PREFAB	PREFABRICATED	W/O	WITHOUT
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
REINF	REINFORCING		

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

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PROJECT NUMBER	26--0142	PROJECT MANAGER	RAD
PROJECT ENGINEER	RAD	PROJECT DRAFTER	JLG

CARUSO · TURLEY · SCOTT · INC
consulting structural engineers
1215 West Rio Salado Parkway, Suite 200
Tempe, Arizona 85281 (480) 774-1700 (774-1701 FAX)
www.ctsaz.com

REGISTRATION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 049268 ENGINEER RICHARD A. DAHLMANN

CARUSO TURLEY SCOTT, INC.
1215 W. RIO SALADO PKWY. SUITE 200
TEMPE, ARIZONA 85281
CERTIFICATION # C-1669

02-25-26

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY

TITLE:
GENERAL STRUCTURAL NOTES

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

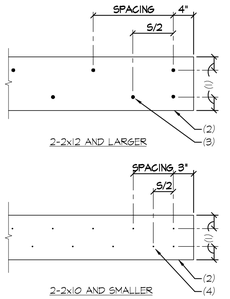
ISSUE DATE:
02/28/26

PROJECT NO.
250701

DRAWN BY:

CHECKED BY:

SHEET NO.
S1.1



NOTES:
1. 1/4 DEPTH OF MEMBER - TYPICAL.
2. FRAMING MEMBER.
3. 1/2" DIA MIN BOLTS AT 24" O.C. STAGGERED.
4. 16d NAILS MIN AT 12" O.C. STAGGERED.

NOTE: INSTALL 2 CONNECTORS AT END AS SHOWN.

10 BUILT UP WOOD MEMBERS

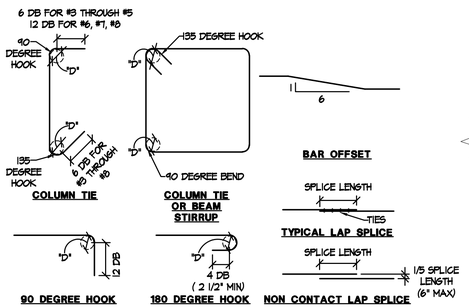
NOT TO SCALE

CONNECTION	NAILING
JOIST TO ALL SILL OR GIRDER, TOE NAIL	3 - 16d
BRIDGING TO JOIST, TOE NAIL EACH END	2 - 8d
SOLE PLATE TO JOIST OR BLOCKING	16d AT 16" O.C.
STUD TO SOLE PLATE, TOE NAIL	4 - 8d, TOENAIL OR 2 - 16d ENDNAIL
DOUBLED STUDS, FACE NAIL	16d AT 30" O.C.
DOUBLED TOP PLATE, FACE NAIL	16d AT 30" O.C.
TOP PLATE, LAPS AND INTERSECTIONS, FACE NAIL	16d AT 24" O.C.
CONTINUOUS HEADER, TWO PIECES	16d AT 16" O.C. ALONG EACH EDGE
CEILING JOISTS TO PLATE, TOENAIL	3 - 8d
CONTINUOUS HEADER TO STUDS, TOENAIL	4 - 8d
CEILING JOISTS OVER LAPS PARTITIONS , FACE NAIL	3 - 16d
CEILING JOISTS PARALLEL RAFTERS , FACE NAIL	3 - 16d
RAFTER TO PLATE	3 - 8d
BUILT-UP CORNER ONLY	16d AT 24" O.C.

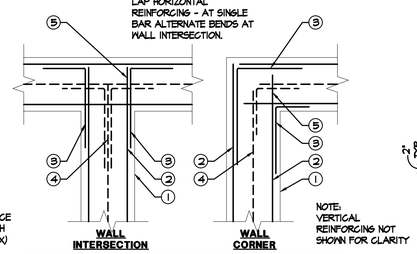
NOTE: COMMON NAILS ONLY.

08 NAILING SCHEDULE

NOT TO SCALE



NOTES:
1. CONCRETE WALL (STEM AS OCCURS).
2. HORIZONTAL REINFORCING.
3. CORNER BARS TO MATCH & LAP HORIZONTAL REINFORCING - AT SINGLE BAR ALTERNATE BENDS AT WALL INTERSECTION.
4. SINGLE MAT OF BARS AS OCCURS.
5. EXTEND TO OPPOSITE FACE OF WALL.

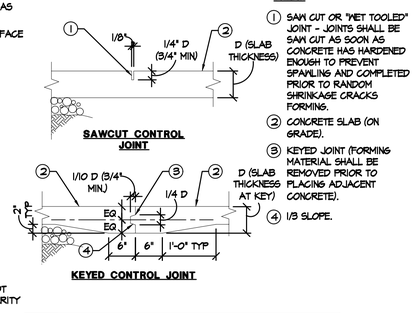


NOTE: VERTICAL REINFORCING NOT SHOWN FOR CLARITY

04 PLAN - CORNER REINFORCING IN CONCRETE WALL AND STEM

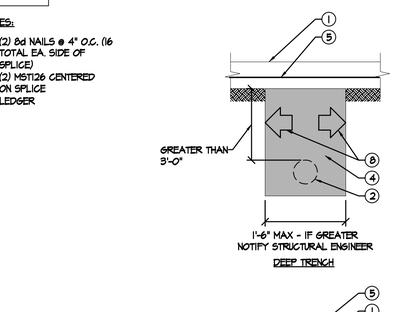
NOT TO SCALE

NOTES:
1. SAW CUT OR "WET TOOLED" JOINT - JOINTS SHALL BE SAW CUT AS SOON AS CONCRETE HAS HARDENED ENOUGH TO PREVENT SPALLING AND COMPLETED PRIOR TO RANDOM SHRINKAGE CRACKS FORMING.
2. CONCRETE SLAB (ON GRADE).
3. KEYED JOINT (FORMING MATERIAL SHALL BE REMOVED PRIOR TO PLACING ADJACENT CONCRETE).
4. 1/8 SLOPE.



01 CONTROL JOINT IN CONCRETE SLAB

NOT TO SCALE

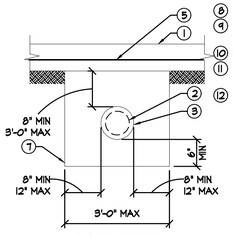


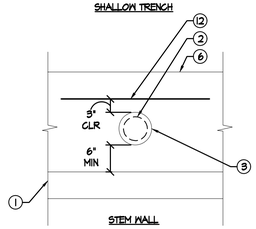
NOTES:
1. (2) 8d NAILS @ 4" O.C. (16 TOTAL EA. SIDE OF SPLICE)
2. (2) MST126 CENTERED ON SPLICE
3. LEDGER

11 TYPICAL SPLICE DETAILS

NOT TO SCALE

NOTES:
1. CONCRETE FOOTING.
2. UTILITY PIPE/CONDUIT (8" DIA. MAX).
3. SLEEVE TO BE ABLE TO MAINTAIN 1" CLR ALL AROUND PIPE.
4. BACKFILL TRENCH PER SOILS REPORT.
5. ADDITIONAL #5 BARS AT 6" O.C. CENTERED OVER TRENCH (3 BARS MINIMUM) LENGTH TO EXTEND 4'-0" BEYOND TRENCH WALL BOTH SIDES.
6. STEM WALL.
7. 2500 PSI CONCRETE FILL TO BE PLACED PRIOR TO PLACING FOOTING - MATCH WIDTH OF FOOTING.
8. SHORING BY CONTRACTOR.
9. 4"x4" W1.4xW1.4 WWF. OR #4 AT 12" O.C.
10. PIPE OR CONDUIT SLEEVE.
11. UNIFORM SLAB THICKNESS AS SHOWN ON PLANS.
12. (2) #5 x 4'-0" LONGS.





09 UTILITIES AT CONCRETE FOOTING OR STEM WALL

NOT TO SCALE

END HOOK SCHEDULE		
BAR SIZE	BAR DIAMETER "DB"	BEND DIAMETER "D"
#3	3/8"	2 1/4"
#4	1/2"	3"
#5	5/8"	3 3/4"
#6	3/4"	4 1/2"
#7	7/8"	5 1/4"
#8	1"	6"
#9	1 1/8"	9 1/2"
#10	1 1/4"	10 3/4"
#14	1 3/4"	18 1/4"
#18	2 1/4"	24"

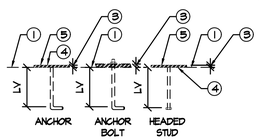
STIRRUPS AND TIES SCHEDULE		
BAR SIZE	BAR DIAMETER "DB"	BEND DIAMETER "D"
#3	3/8"	1 1/2"
#4	1/2"	2"
#5	5/8"	2 1/2"
#6	3/4"	4 1/2"
#7	7/8"	5 1/4"
#8	1"	6"

06 REINFORCING BENDS AND HOOKS

NOT TO SCALE

ANCHOR SIZE	HORIZONTAL CAST EMBEDMENT (LH)	VERTICAL CAST EMBEDMENT (LV)
3/8"	5"	7"
1/2"	5"	8"
5/8"	5"	8"
3/4"	5"	8"
7/8"	5"	8"
1"	5"	9"
1 1/4"	5"	12"
1 1/2"	5"	12"

NOTES:
1. TOP OF CONCRETE OR MASONRY.
2. FACE OF CONCRETE OR MASONRY.
3. THICKNESS OF MEMBER BEING ATTACHED - INCLUDING DRYPACK AS OCCURS.
4. STEEL PLATE CHANNEL, ANGLE ETC... AS OCCURS.
5. TOP OF CONCRETE AS OCCURS.
6. FACE OF CONCRETE AS OCCURS.



NOTE: ALL ADHESIVE AND EXPANSION CONNECTIONS REQUIRE EVALUATION BY STRUCTURAL ENGINEER PRIOR TO PLACEMENT

07 ANCHOR AND ANCHOR BOLT EMBEDMENTS

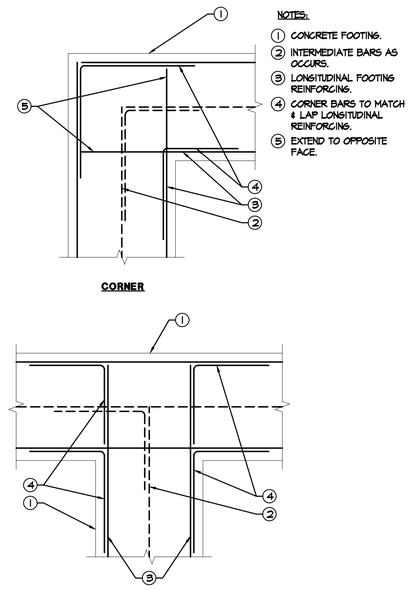
NOT TO SCALE

CLASS "B" TENSION LAP SPLICE SCHEDULE					
BAR SIZE	CONCRETE STRENGTH / BAR PLACEMENT	2500 OR 3000	4000	5000	6000
#3	TOP	29	25	22	21
	OTHER	22	19	17	16
#4	TOP	38	33	29	26
	OTHER	29	25	22	20
#5	TOP	47	40	37	34
	OTHER	36	31	28	26
#6	TOP	56	48	43	39
	OTHER	43	37	33	30
#7	TOP	81	70	63	57
	OTHER	62	54	48	44
#8	TOP	92	81	72	66
	OTHER	71	62	55	51
#9	TOP	104	91	81	74
	OTHER	80	70	62	57
#10	TOP	116	100	90	82
	OTHER	89	77	69	63
#11	TOP	128	111	99	91
	OTHER	98	85	76	70

NOTES:
1. THIS SCHEDULE SHALL ONLY BE USED WHERE BOTH OF THE FOLLOWING CONDITIONS ARE MET:
   A. CLEAR SPACING OF BARS IS GREATER THAN 3 BAR DIAMETERS.
   B. CLEAR COVER OF BARS IS GREATER THAN 1 BAR DIAMETER.
   WHERE THE ABOVE CONDITIONS ARE NOT MET, CONTACT THE STRUCTURAL ENGINEER.
2. THIS SCHEDULE SHALL ONLY BE USED FOR UNCOATED, DEFORMED GRADE 60 REINFORCING STEEL.
3. THIS SCHEDULE SHALL NOT BE USED FOR BUNDLED BARS.
4. ALL SPLICES SHALL BE MADE BY CONTACT TYPE LAP SPLICES AND SHALL BE CLASS "B" AS DEFINED BY THE LATEST EDITION OF ACI 318.
5. #14 AND #18 BARS SHALL NOT BE SPLICED BY TENSION LAP SPLICES.
6. ALL DETAILING SHALL BE PER THE LATEST EDITION OF ACI 318 CODE AND COMMENTARY AND BY THE CRSI DETAILING HANDBOOK.
7. TOP BARS SHALL BE DEFINED AS BARS PLACED SUCH THAT 12" OR MORE OF FRESH CONCRETE IS PLACED BELOW THE BAR.
8. THIS SCHEDULE SHALL BE USED ONLY FOR NORMAL WEIGHT CONCRETE.

05 CONCRETE REINFORCING SCHEDULE

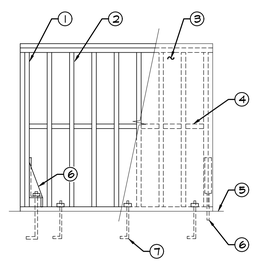
NOT TO SCALE



NOTES:
1. CONCRETE FOOTING.
2. INTERMEDIATE BARS AS OCCURS.
3. LONGITUDINAL FOOTING REINFORCING.
4. CORNER BARS TO MATCH & LAP LONGITUDINAL REINFORCING.
5. EXTEND TO OPPOSITE FACE.

02 PLAN - REINFORCING AT FOOTING - INTERSECTIONS

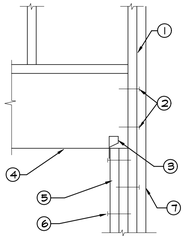
NOT TO SCALE



NOTES:
1. MULTIPLE STUDS (MIN 2 U.N.O.) AT EACH END OF PANEL. NAILED AS BUILT-UP POST - TYP.
2. WOOD STUDS.
3. SHEATHING MATERIAL.
4. MIDHEIGHT BLOCKING REQUIRED AT SHEATHING PANEL JOINTS.
5. FINISHED FLOOR.
6. HOLDOWN AS OCCURS.
7. ANCHOR BOLTS.

03 ONE-STORY SHEAR WALL ELEVATION

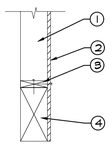
NOT TO SCALE



NOTES:
1. WOOD STUDS
2. 2 - 16d AT BEAM
3. SIMPSON H2.5 EACH SIDE OF BEAM
4. WOOD BEAM.
5. 2 STUDS UNDER BEAM.
6. 16d AT 12" O.C. STAGGERED.
7. DOUBLE FULL HEIGHT JAMB STUD AT OPENINGS UP TO 4'-0" WIDE TRIPLE FULL HEIGHT JAMB STUDS AT OPENINGS UP TO 8'-0", FOUR FULL HEIGHT JAMBS STUDS AT OPENINGS UP TO 12'-0".

12 WOOD BEAM IN STUD WALL

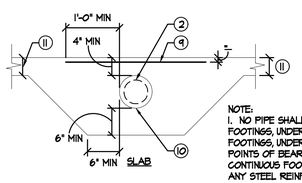
NOT TO SCALE



NOTES:
1. 2x AT 16" O.C.
2. 3/8" PLYWOOD WITH 8d AT 6" O.C.
3. 2x CONTINUOUS WITH 16d AT 12" O.C.
4. WOOD BEAM.

13 WOOD STUD WALL AT WOOD BEAM

NOT TO SCALE



NOTE:
1. NO PIPE SHALL PASS THRU FOOTINGS, UNDER COLUMN FOOTINGS, UNDER MAJOR POINTS OF BEARINGS AT A CONTINUOUS FOOTING, OR THRU ANY STEEL REINFORCING BARS.
2. CONTRACTOR TO CONTACT STRUCTURAL ENGINEER BEFORE PASSING ANY PIPES IN QUESTIONABLE AREAS.

REGISTRATION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 049268 ENGINEER RICHARD A. DAFLIMAN

CARUSO TURLEY SCOTT, INC.
1215 W. RIO SALADO PKWY. SUITE 200
TEMPE, ARIZONA 85281
CERTIFICATION # C-1669

02-25-26

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY

TITLE:

DETAILS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/28/26

PROJECT NO.
250701

DRAWN BY:

CHECKED BY:

SHEET NO.

S1.2

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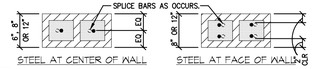
CARUSO · TURLEY · SCOTT · INC
consulting structural engineers
1215 West Rio Salado Parkway, Suite 200
Tempe, Arizona 85281 (480) 774-1700 (774-1701 FAX)
www.ctsaz.com

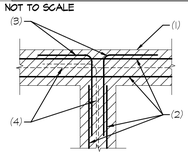
REBAR SIZE (METRIC)	REBAR GRADE	MASONRY LAP SPLICE LENGTH				
		STEEL AT CENTER OF WALL			STEEL AT FACE OF WALL (& BOND BEAMS)	
		6" BLK	8" BLK	12" BLK	8" BLK	12" BLK
#4 (13)	40	20"	20"	20"	20"	20"
#4 (13)	60	26"	26"	26"	26"	26"
#5 (16)	60	32"	32"	32"	32"	32"
#6 (19)	60	N/A	39"	39"	39"	39"
#7 (22)	60	N/A	45"	45"	N/A	45"
#8 (25)	60	N/A	N/A	52"	N/A	52"



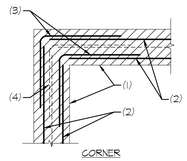
NOTES:
1. LAPS APPLY TO BOTH VERTICAL AND HORIZONTAL REINFORCING.
2. PROVIDE BENT BARS TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.
3. DO NOT SPLICE HORIZONTAL BARS WITHIN 8'-0" OF CONTROL JOINTS.
4. FOR LADDER TYPE HORIZONTAL REINFORCING, SEE G.8.N.
5. LAP LENGTHS ARE BASED ON A CALCULATED STEEL STRESS (fs) NOT EXCEEDING 80 PERCENT OF THE ALLOWABLE STEEL STRESS (Fs).

19 ALLOWABLE STRESS MASONRY LAP SPLICES FOR REINFORCING STEEL

NOT TO SCALE



INTERSECTION



CORNER

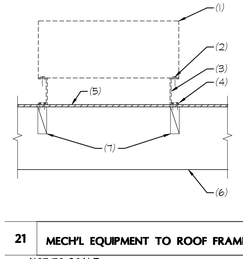
NOTES:
1. MASONRY WALL.
2. BOND BEAM REINFORCING.
3. CORNER BARS SAME SIZE AND SPACING AS HORIZONTAL REINFORCING - LAP PER TYPICAL DETAIL (24" MINIMUM).
4. SINGLE BAR REINFORCING WHERE OCCURS. ALTERNATE BEND OF CORNER BARS AT INTERSECTION.

NOTE:
SEE TYPICAL DETAIL FOR NON-TOOTHED ABUTTING WALLS AS OCCURS.

20 MASONRY BOND BEAM AT INTERSECTING WALLS

NOT TO SCALE

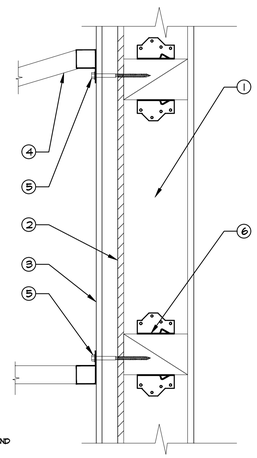
	SCREW #1 SELF TAPPING	SCREW #2 WOOD SCREW
RTU	#2 AT 12" O.C. ALL AROUND	#2x2 1/2" AT 28" O.C. ALL AROUND



NOTES:
1. MECH'L UNIT BY OTHERS.
2. SCREW #1 (PER TABLE BELOW) ALL AROUND UNIT.
3. CURB BY OTHERS.
4. SCREW #2 (PER TABLE BELOW) ALL AROUND UNIT.
5. PLYWOOD SHEATHING.
6. WOOD JOIST.
7. 2x6 BLOCKING (2x2 AT CUT JOISTS PER DETAIL 16/S13) WITH LUS HANGER AT EACH END - TYP. UNDER CURBS.

21 MECH'L EQUIPMENT TO ROOF FRAMING

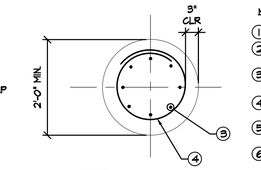
NOT TO SCALE



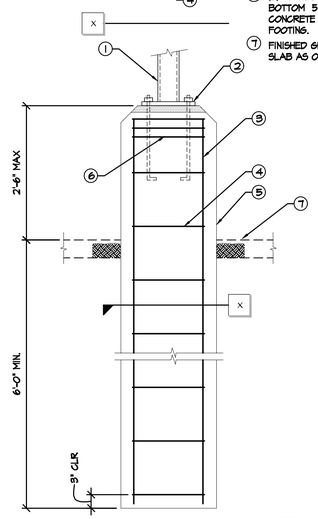
NOTES:
1. WOOD STUD WALL
2. PLYWOOD SHEATHING
3. RAINSCREEN W/ 3/4" GAP BEHIND
4. CANOPY (BY OTHERS)
5. SIMPSON SDS25300 SCREWS AT EACH CONNECTION T4B INTO SOLID BLOCKING
6. 3x SOLID BLOCKING W/ SIMPSON A34 TOP AND BOTTOM AT EA. END

17 FABRIC CANOPY ATTACHMENT

NOT TO SCALE



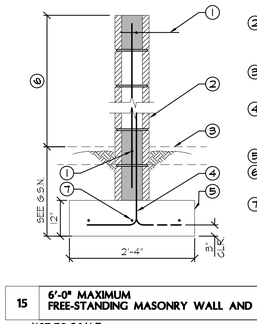
NOTES:
1. LIGHT POLE BY OTHERS.
2. LIGHT POLE BASE & ATTACHMENT BY OTHERS.
3. (8) #6 BARS EQUALLY SPACED ALL AROUND.
4. #3 TIES AT 12" O.C. VERTICALLY.
5. CONCRETE POLE FOOTING.
6. (3) #3 TIES IN TOP AND BOTTOM 5" OF CONCRETE BASE POLE FOOTING.
7. FINISHED GRADE OR SLAB AS OCCURS.



NOTE:
FOOTING DESIGN FOR 25'-0" MAXIMUM FLAG POLE HEIGHT

14 FLAGPOLE FOOTING

NOT TO SCALE

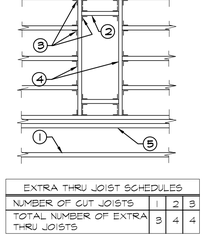


NOTES:
1. (1) #5 CONTINUOUS IN 8" DEEP GROUTED BOND BEAM.
2. 8" MASONRY WALL WITH #5 VERTICALS AT 40" O.C. GROUT SOLID BELOW GRADE.
3. FINISHED GRADE OR CONCRETE SLAB WHERE OCCURS.
4. DOWELS TO MATCH AND LAP VERTICAL WALL REINFORCING PER G.5.N. - ALTERNATE BENDS.
5. CONCRETE FOOTING.
6. FOR TOP OF WALL, SEE ARCHITECTURAL DRAWINGS - 6'-0" MAX.
7. (3) #4 CONTINUOUS.

NOTE:
- f'm = 1500 psi
- GROUT = 2000 psi
- MORTAR = 1800 psi
- PLACE VERTS AT ALL CORNERS

15 6'-0" MAXIMUM FREE-STANDING MASONRY WALL AND FOOTING

NOT TO SCALE



NOTES:
1. WOOD JOISTS.
2. 2X TRIMMERS AS REQUIRED.
3. USE JOIST HANGERS AT ALL CONNECTIONS.
4. 2X12 HEADER - WHEN MORE THAN 2 JOISTS ARE CUT USE DOUBLE 2X12 HEADERS.
5. THRU JOIST - SEE SCHEDULE.

EXTRA THRU JOIST SCHEDULES			
NUMBER OF CUT JOISTS	1	2	3
TOTAL NUMBER OF EXTRA THRU JOISTS	3	4	4

NOTE: REPLACE ALL CUT 2X JOISTS WITH THRU 2X JOISTS AT SIDES OF OPENING AS SHOWN. SEE SCHEDULE FOR NUMBER OF EXTRA JOISTS REQUIRED.

16 PLAN - TYPICAL WOOD FRAMING AT FRAMED OPENING

NOT TO SCALE

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

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PROJECT NUMBER	26-0142	PROJECT MANAGER	RAD
PROJECT ENGINEER	RAD	PROJECT DRAFTER	JLG

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consulting structural engineers
1215 West Rio Salado Parkway, Suite 200
Tempe, Arizona 85281 (480) 774-1700 (774-1701 FAX)
www.ctsaz.com

REGISTRATION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 049268 ENGINEER RICHARD A. DAHLMANN

CARUSO TURLEY SCOTT, INC.
1215 W. RIO SALADO PKWY. SUITE 200
TEMPE, ARIZONA 85281
CERTIFICATION # C-1669

02-25-26

SCOOTER'S COFFEE® EST. 1998

BY	DESCRIPTION	DATE	REV

TITLE:

DETAILS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/28/26

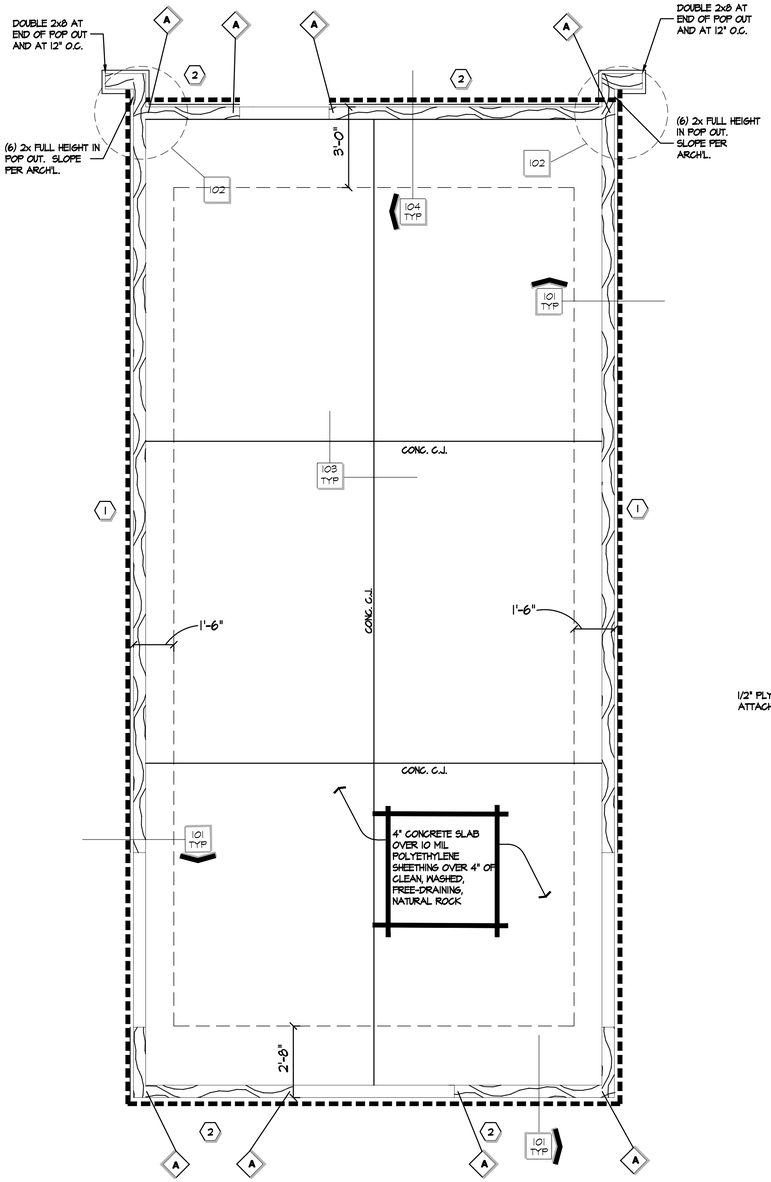
PROJECT NO.
250701

DRAWN BY:

CHECKED BY:

SHEET NO.

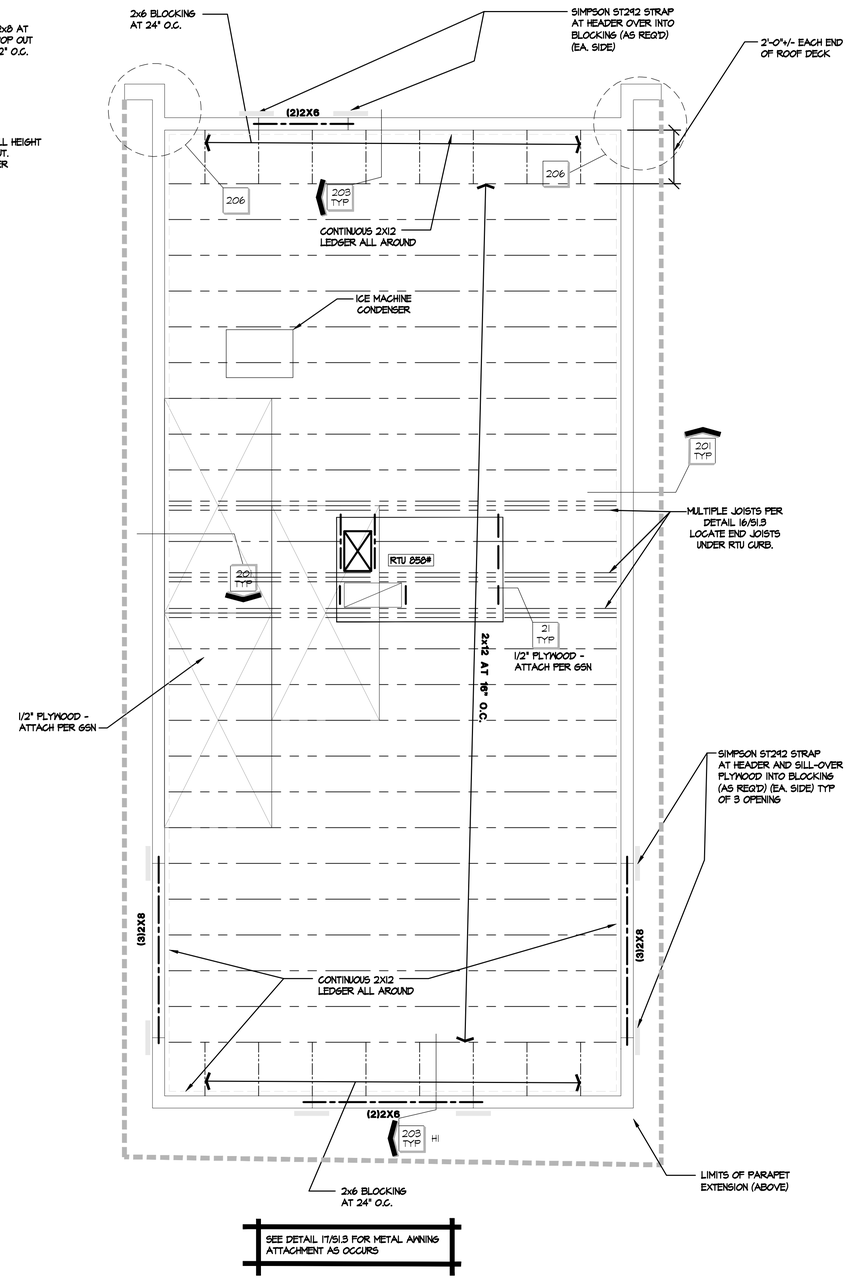
S1.3



FOUNDATION PLAN

3/8"=1'-0"

NORTH



ROOF FRAMING PLAN

3/8"=1'-0"

NORTH

WOOD SHEAR WALL AND HOLDOWN SCHEDULE

NOTES:
1. HOLDOWNS SHALL BE AS MANUFACTURED BY SIMPSON OR SHALL BE OF EQUIVALENT CAPACITY WITH A CURRENT ICC NUMBER.
2. REFER TO PLANS FOR HOLDOWN LOCATION.
3. FOR HOLDOWN ATTACHMENT SEE DETAIL 03 ON S1.2 AND 104 ON S3.1.
4. ALL ANCHOR BOLTS SHALL BE PLACED AS SPECIFIED 6" MINIMUM TO 12" MAXIMUM FROM THE END OF WALL. THIS DOES NOT INCLUDE ANCHORS USED FOR HOLDOWNS.
5. REFER TO PLANS FOR SHEAR WALL LOCATIONS.
6. WHERE WALLS ARE SHEATHED ON BOTH SIDES, PANEL JOINTS SHALL BE OFFSET TO FALL AN DIFFERENT FRAMING MEMBERS OR FRAMING SHALL BE 3" NOMINAL OR THICKER WITH NAILS STAGGERED ON EACH SIDE.
7. WHERE NAILS ARE SPACED AT 2" O.C. FRAMING SHALL BE 3" NOMINAL OR WIDER AND STAGGER NAILS.
8. WHERE 10d NAILS ARE SPACED AT 3" O.C. OR LESS, FRAMING SHALL BE 3" NOMINAL OR WIDER AND STAGGER NAILS.
9. SHEAR WALL SILL PLATES SHALL HAVE 3"x3"x3/16" STEEL PLATE WASHERS.

SHEAR WALL

MARK	SHEAR WALL MATERIAL AND ATTACHMENT	BLOCKED	SILL PLATE	SILL PLATE ATTACHMENT
1	1/2" APA STRUCT I SHEATHING WITH 8d NAILS AT 6" O.C. EDGES AND 6" O.C. FIELD	YES	2x	1/2" DIA. ANCHOR BOLTS AT 48" O.C.
2	1/2" APA STRUCT I SHEATHING WITH 10d NAILS AT 3" O.C. EDGES AND 6" O.C. FIELD	YES	2x	1/2" DIA. ANCHOR BOLTS AT 24" O.C.

HOLDOWNS

MARK	HOLDOWN	END POST	WALL ATTACHMENT	SILL / STEM ATTACHMENT
A	HDU11-SDS2.5	(3) 2xSTUDS OR 6x6	1/4" DIA x 2 1/2" SDS SCREWS FILL ALL HOLES	SEE DETAIL 10B

FRAMING PLAN LEGEND AND NOTES

1. THE ROOF/FLOOR FRAMING PLAN SHALL NOT BE SCALED FOR ANY REASON. EXCEPT FOR JOIST LAYOUT AND SPACING, ANY DIMENSIONS SHOWN HAVE BEEN PROVIDED BY THE ARCHITECT AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN WITH THE ARCHITECTURAL DRAWINGS AND RESOLVE ANY DISCREPANCIES.
2. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL EQUIPMENT THAT WOULD IMPOSE ADDITIONAL LOADS TO THE ROOF FRAMING MEMBERS. EXACT WEIGHTS AND LOCATIONS OF ALL SUCH EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR. RESOLVE ALL DISCREPANCIES PRIOR TO CONSTRUCTION. REFER TO THE TYPICAL DETAILS FOR MECHANICAL UNIT SUPPORTS AND OPENINGS.
3. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ALL OPENINGS REQUIRED AND THEIR EXACT LOCATIONS. IF AN OPENING IS REQUIRED FOR OTHER TRADES, BUT NOT SHOWN OF THE STRUCTURAL DRAWINGS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER AND ALL DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION.
4. TYPICAL DETAILS ARE NOT NECESSARILY CUT ON THE PLAN BUT APPLY UNLESS NOTED OTHERWISE.
5. REFER TO THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.
6. WHERE A DETAIL IS NOT SPECIFICALLY CUT ON THE FRAMING PLAN, SIMILAR DETAILING SHALL APPLY.
7. CAMBER, DEAD LOAD DEFLECTIONS, BEAM AND JOIST TOLERANCES, ETC., MAY AFFECT CONCRETE OR ROOF TOPPING QUANTITY. THIS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ACCOUNT FOR THESE VARIATIONS.
8. PROVIDE 2 STUDS MIN. AT ALL BEAM AND GIRDER BEARING, TYPICAL U.N.O.
9. VERIFY EXACT SIZE, WEIGHT AND LOCATION OF EQUIPMENT AND SUPPORTS WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. FOR SUPPORT OF EQUIPMENT, SEE TYPICAL DETAILS AND OTHER TRADES.

DETAIL SHEET INDEX

SHEET	SHEET DESCRIPTION	DETAIL NUMBERS
S1.2	TYPICAL DETAILS	1-13
S1.3	TYPICAL DETAILS	14-18
S3.1	FOUNDATION DETAILS	101-103
S3.1	FRAMING DETAILS	201-206

PLAN LEGEND AND NOTES

2x6 AT 16" O.C. WOOD STUD WALL

LIMITS OF SHEAR WALL. SEE SCHEDULE FOR TYPE.

TYPE OF SHEAR WALL SHEATHING AND ATTACHMENT. SEE SHEAR WALL SCHEDULE ON THIS SHEET

TYPE OF HOLDOWN. SEE HOLDOWN SCHEDULE ON THIS SHEET.

1. THE FOUNDATION PLAN SHALL NOT BE SCALED FOR ANY REASON. ANY DIMENSIONS SHOWN HAVE BEEN PROVIDED BY THE ARCHITECT AND ARE FOR ESTIMATING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN WITH THE ARCHITECTURAL DRAWINGS AND RESOLVE ANY DISCREPANCIES PRIOR TO CONSTRUCTION. VERIFY GRID LOCATION WITH ARCH'L DRAWINGS
2. THE CONTROL JOINTS SHALL NOT BE USED TO LOCATE STRUCTURAL ITEMS. REFER TO GENERAL NOTES FOR LOCATING CONTROL JOINTS
3. REFER TO ARCHITECTURAL, PLUMBING, ELECTRICAL AND CIVIL DRAWINGS FOR ALL UNDER SLAB CONSTRUCTION SUCH AS UTILITY TRENCHES, PIPES, CONDUIT, ETC... REFER TO TYPICAL DETAILS FOR STRUCTURAL REQUIREMENTS AT UTILITY TRENCHES, PIPES, CONDUIT ETC... WHERE CONSTRUCTION REQUIRED IS BEYOND THE SCOPE OF THE TYPICAL DETAILS, NOTIFY THE ARCHITECT AND STRUCTURAL ENGINEER AND RESOLVE ALL DISCREPANCIES PRIOR TO CONSTRUCTION. IN NO CASE SHALL ANY OTHER TRADES' CONSTRUCTION PASS THROUGH A FOOTING EITHER VERTICALLY OR HORIZONTALLY UNLESS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS.
4. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEPRESSED AND RAISED SLAB LOCATIONS.
5. REFER TO SOILS REPORT, CIVIL AND ARCHITECTURAL DRAWINGS FOR ALL EXTERIOR SLAB LOCATIONS AND CONSTRUCTION REQUIREMENTS.
6. WHERE A DETAIL IS NOT SPECIFICALLY CUT ON THE FOUNDATION PLAN, SIMILAR WORK SHALL APPLY.
7. REFER TO THE GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION.

FOR ADDITIONAL INFORMATION SHOWN BUT NOT NOTED, SEE GENERAL STRUCTURAL NOTES ON SHEET S1.1 AND TYPICAL DETAIL SHEETS.

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TITLE:

PLAN VIEW

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KIOSK PROTOTYPE:
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MAY 2025

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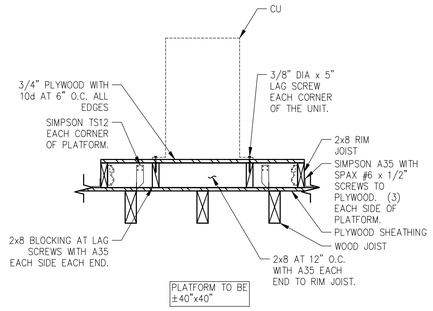
PROJECT NO.
250701

DRAWN BY:

CHECKED BY:

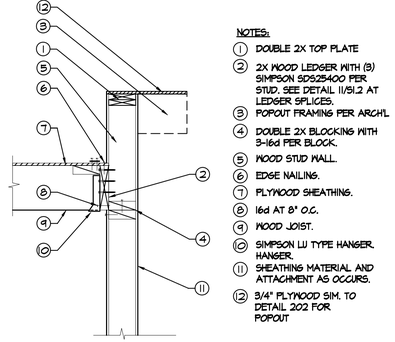
SHEET NO.

S2.1



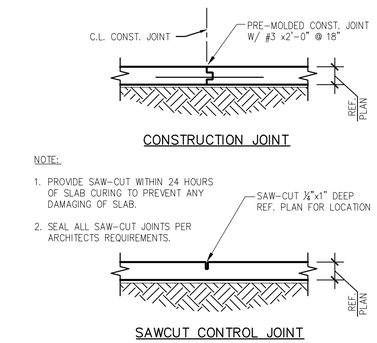
204 SECTION

NOT TO SCALE



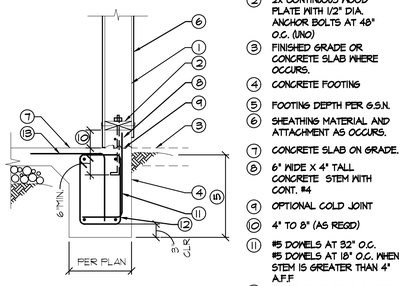
201 WOOD JOIST AT WOOD STUD WALL

NOT TO SCALE



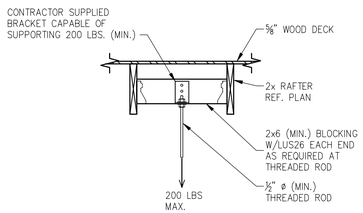
103 TYPICAL CONTROL JOINT

NOT TO SCALE



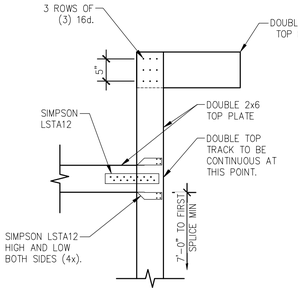
A WOOD STUD WALL FOOTING (TURNDOWN OPTION)

NOT TO SCALE



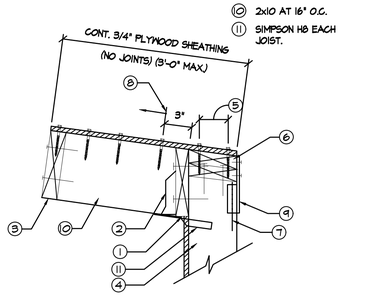
205 SECTION

NOT TO SCALE



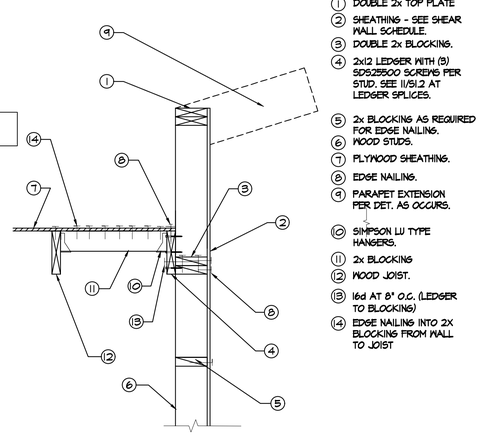
206 PLAN VIEW POP OUT TOP PLATES

NOT TO SCALE



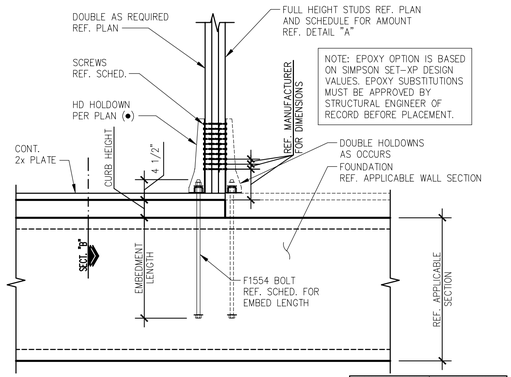
202 PARAPET EXTENSION

NOT TO SCALE



203 WOOD STUD WALL AT ROOF

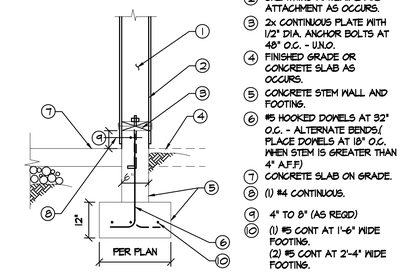
NOT TO SCALE



HOLDOWN	POST/2x	BOLT/SCREW #	ANCH. BOLT	EDGE DISTANCE	CAST IN PLACE REQUIREMENTS BOLT EMBED	EPOXY OPTION REQUIREMENTS BOLT EMBED
HDU11-SDS2.5	(3) 2x OR 6x6	(30) SDS ¼"x2½"	1"ø	16"	1'-2" INTO LOWER FOOTING	1'-4"

104 TYP HOLDOWN DETAIL

NOT TO SCALE

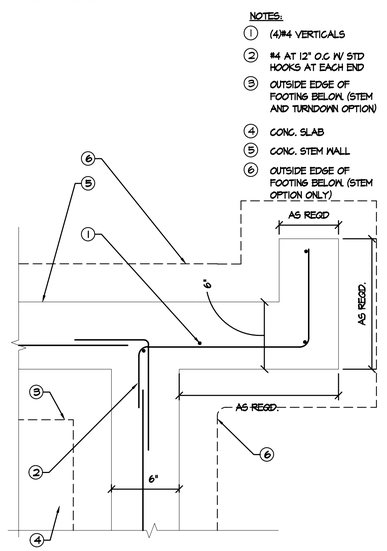


B WOOD STUD WALL FOOTING (STEM OPTION)

NOT TO SCALE

101 WOOD STUD WALL FOOTING

NOT TO SCALE



102 PLAN - CONC FOOTING AT POPOUT

NOT TO SCALE

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02-25-26

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SHEET NO.

S3.1

MECHANICAL SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

HVAC EQUIPMENT & DUCTWORK

NOTE: ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE INSIDE DIMENSIONS.

- EXISTING DUCTWORK OR EQUIPMENT TO REMAIN
- EXISTING DUCTWORK OR EQUIPMENT TO BE REMOVED
- BRANCH DUCT WITH 45° RECTANGLE–ROUND BRANCH FITTING AND MANUAL VOLUME DAMPER
- ELBOW WITH TURNING VANES
- LINEAR SLOT DIFFUSER
- INSULATED FLEXIBLE DUCT (MAX. 5'–0" LONG)
- EXHAUST AIR DUCT UP
- EXHAUST AIR DUCT DOWN
- RETURN AIR DUCT UP
- RETURN AIR DUCT DOWN
- SUPPLY OR OUTSIDE AIR DUCT UP
- SUPPLY OR OUTSIDE AIR DUCT DOWN
- DUCT ROOF PENETRATION
- EQUIPMENT WITH FLEXIBLE DUCT CONNECTION
- 10ø CD–1 300 CFM — NECK SIZE, TYPE, CFM OF SUPPLY DIFFUSER OR REGISTER
- 24x24 EG–1 800 CFM — SIZE, TYPE, CFM OF EXHAUST OR RETURN GRILLE
- MANUAL VOLUME DAMPER
- SQUARE TO ROUND TRANSITION
- RD — DUCT MOUNTED SMOKE DETECTOR (SD=SUPPLY/RD=RETURN)
- AV — AUDIO/VISUAL ALARM
- FD — FIRE DAMPER
- FSD — FIRE SMOKE DAMPER
- SD — SMOKE DAMPER
- MD — MOTORIZED DAMPER
- BD — BACKDRAFT DAMPER
- CO — CARBON MONOXIDE SENSOR
- CO2 — CARBON DIOXIDE SENSOR
- HS — HUMIDITY SENSOR
- PS — PULL STATION
- SP — STATIC PRESSURE SENSOR
- TS — TEMPERATURE SENSOR
- H — HUMIDISTAT
- T — THERMOSTAT
- S X — WALL SWITCH & UNIT DESIGNATION

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MBH	1000 BTU PER HOUR
BAS	BUILDING AUTOMATION SYSTEM	MC	MECHANICAL CONTRACTOR
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BFG	BELOW FINISHED GRADE	NC	NOISE CRITERIA
BD	BACKDRAFT DAMPER	OA	OUTSIDE AIR
CFM	CUBIC FEET PER MINUTE	PPM	PARTS PER MILLION
DDC	DIRECT DIGITAL CONTROL	RA	RETURN AIR
DX	DIRECT EXPANSION	SA	SUPPLY AIR
EA	EXHAUST AIR	TFA	TO FLOOR ABOVE
ETR	EXISTING TO REMAIN	TFB	TO FLOOR BELOW
FFA	FROM FLOOR ABOVE	TYP	TYPICAL
FFB	FROM FLOOR BELOW	UNO	UNLESS NOTED OTHERWISE
GPM	GALLONS PER MINUTE	W/	WITH
IN WC	INCHES OF WATER COLUMN	W/O	WITHOUT
MAX	MAXIMUM		

STANDARD MOUNTING HEIGHTS

MECHANICAL	(AFF, AFG, UNLESS NOTED OTHERWISE)
THERMOSTATS (USER ADJUSTABLE)(TOP OF DEVICE)	48"
CONTROLS (TOP OF DEVICE)	48"

ANNOTATION

- 1 — MECHANICAL PLAN CALLOUT
- CU 1 — MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- 1 / M1 — DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER
- 1 / M1 — SECTION CUT DESIGNATION

GENERAL MECHANICAL NOTES:

A. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND OTHER DRAWINGS FOR ADDITIONAL REQUIREMENTS WHICH MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY ARCHITECT, ENGINEER AND/OR OWNER OF CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

B. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.

C. NEW MECHANICAL EQUIPMENT AND DUCTWORK ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.

D. REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAILS AS APPLICABLE TO THE HVAC SYSTEM. VERIFY CHASES AND PENETRATIONS SHOWN ON ARCHITECTURAL DRAWINGS THAT ARE INTENDED FOR DUCTWORK AND PIPING MEET REQUIREMENTS.

E. COORDINATE LOCATION OF ROOF MOUNTED HVAC EQUIPMENT AND ROOF PENETRATIONS WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.

F. INDOOR AIR QUALITY MEASURES: PROTECT INSIDE OF (INSTALLED AND DELIVERED) DUCTWORK AND HVAC UNITS FROM EXPOSURE TO DUST, DIRT, PAINT AND MOISTURE. REPLACE INSULATION THAT HAS GOTTEN WET AT ANY TIME DURING CONSTRUCTION, DRYING THE INSULATION IS NOT ACCEPTABLE. SEAL ANY TEARS OR JOINTS OF INTERNAL FIBERGLASS INSULATION. REMOVE DEBRIS FROM CEILING/RETURN AIR PLENUM INCLUDING DUST. AN INDEPENDENT, PROFESSIONAL DUCT CLEANING COMPANY SHALL VACUUM CLEAN ANY DUCTWORK CONNECTED TO HVAC UNITS THAT WERE OPERATED DURING THE CONSTRUCTION PERIOD AFTER NEW FILTERS, MINIMUM MERV–13, ARE INSTALLED AND PRIOR TO TURNING SYSTEM OVER TO THE OWNER.

G. INSTALL DUCTWORK PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED.

H. OVERHEAD HANGERS AND SUPPORTS FOR EQUIPMENT, DUCTWORK SHALL BE FASTENED TO BUILDING JOISTS OR BEAMS. DO NOT ATTACH HANGERS AND SUPPORTS TO THE ABOVE FLOOR SLAB OR ROOF EXCEPT WHERE CONCRETE INSERTS IN CONCRETE SLABS ARE ALLOWED BY THE SPECIFICATIONS.

I. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT AND/OR FILTER REPLACEMENT.

J. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS.

K. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.

L. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.

M. LOCATE AND SET THERMOSTATS SENSORS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL THERMOSTATS WITH TOP OF DEVICE AT MAXIMUM 48" AFF TO MEET ADA REQUIREMENTS UNLESS NOTED OTHERWISE ON PLANS. TEMPERATURE SENSORS SHALL BE MOUNTED AT A MAXIMUM OF 72" AFF. INSTALL WIRING IN CONDUIT PROVIDED BY DIVISION 16.

N. PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS.

O. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE–OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES.

P. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS OTHERWISE NOTED.

Q. RIGID DUCTWORK INSULATION: PROVIDE 3/4 LB DENSITY, MINIMUM R–6.0 DUCT WRAP, 2" THICK, INSULATION WRAP ON RIGID ROUND, CONCEALED, SUPPLY AND RETURN AIR DUCTS. PROVIDE 1–1/2"(R–6.0) THICK 1–1/2 LB DENSITY INTERNAL DUCT LINER ON RECTANGULAR SUPPLY AND RETURN AIR DUCTS. DUCT SIZES ON MECHANICAL PLANS INDICATE CLEAR INSIDE AIRFLOW DIMENSIONS, INCREASE SHEET METAL SIZES ACCORDINGLY.

R. PROVIDE THERMAFLEX TYPE M–KE, FLEXMASTER TYPE 8, OR APPROVED EQUAL FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE LISTED UNDER UL 181 AS CLASS 1 AIR DUCT AND BE PROVIDED WITH INTEGRAL R–6.0, 3/4 LB DENSITY FIBERGLASS INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 5'–0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING.

S. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING. AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.

T. PROVIDE A COPY OF THE AIR BALANCE REPORT TO THE CITY INSPECTOR AT THE TIME OF INSPECTION.

ROOFTOP UNIT SCHEDULE (ELECTRIC HEAT)

MARK	NOMINAL CAPACITY (TONS)	MANUFACTURER	MODEL	SUPPLY FAN				COOLING COIL					HEAT EXCHANGER				MIN. O/A CFM	EFFICIENCY RATING SEER2	ELECTRICAL			WEIGHT LBS	NOTES
				FAN TYPE	AIRFLOW (CFM)	MIN BHP	ESP (IN)	REFR. TYPE	TOTAL (MBH)	SENSIBLE (MBH)	EAT DB/WB (°F)	LAT DB/WB (°F)	TOTAL OUTPUT (MBH)	NOM. KW	MIN. LAT DB/WB (°F)	NO. OF STAGES			V/PH	MCA	MOCP		
RTU-1	5	CARRIER	50FE-B06A3	DIRECT	1,950	0.9	0.5	R-454B	61.7	41.7	78.2 / 67.1	58.2 / 57.1	44.4	13	65.0	1	150	13.4	230/1	80.0	80	832	A-H

MODEL NUMBERS SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND MODEL NUMBERS ONLY. REVIEW THE COMPLETE DESCRIPTION, NOTES AND SPECIFICATIONS TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE MANUFACTURERS LISTED ARE THE BASIS FOR THE DESIGN.

NOTES:
A. PROVIDE DRY-BULB ECONOMIZER WITH 100% BAROMETRIC RELIEF DAMPER.
B. PROVIDE LOW AMBIENT COOLING CONTROL TO 40°F.
C. EQUIPMENT SIZED FOR 115°F AMBIENT TEMPERATURE.
D. PROVIDE 2" PLEATED MERV-13 THROWAWAY AIR FILTERS.
E. SPECIFIED FAN ESP ACCOUNTS FOR DUCT LOSSES EXTERNAL TO UNIT.
F. PROVIDE MANUFACTURER'S STANDARD INSULATED ROOF CURB WITH MINIMUM HEIGHT OF 14".
G. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT WITH STAGED HEATING AND COOLING CAPABILITY AS REQUIRED FOR OPERATION OF HEATING, COOLING AND ECONOMIZER CONTROLS.
H. DISCONNECT SWITCH FURNISHED BY ELECTRICAL CONTRACTOR.

FAN SCHEDULE

MARK	SERVICE (EA, RA, SA)	MANUFACTURER	MOUNTING	MODEL	AIRFLOW (CFM)	ESP (IN)	DRIVE (BELT/DIRECT)	FAN POWER	ELECTRICAL V/PH	ELECTRICAL FLA	WEIGHT (LBS)	NOTES
EF-1	EXHAUST	COOK	CEILING	GC-128	75	0.125	DIRECT	4 W	120/1	--	13	A,B,C,E

NOTES:
A. PROVIDE RUBBER IN SHEAR ISOLATION AND ALL-THREAD HANGING RODS.
B. MANUFACTURER TO PROVIDE WITH DECORATIVE GRILLE.
C. INTERLOCK FAN OPERATION WITH RESTROOM LIGHT SWITCH.
E. MANUFACTURER TO PROVIDE **12" HIGH ROOF CURB AND SPUN ALUMINUM ROOF CAP** WITH INTEGRAL BIRD SCREEN AND BACKDRAFT DAMPER.

OUTSIDE AIR REQUIREMENTS (N.C. MECH. TABLE 403.3.1)

AREA PURPOSE	GROSS FLOOR AREA (SQ. FT)	CODE OUTSIDE AIR REQUIREMENTS: CFM PER SQ. FT	CFM REQD.	CFM PER PERSON	OCCUPANCY DENSITY	NO. OF PEOPLE	CFM REQD.
KITCHEN	549	0.18	99	7.5	5	4	30
	549	TOTAL =	99				30

SYSTEM NUMBER	ACTUAL OUTSIDE AIR (CFM PER UNIT)
RTU-1	150
TOTAL =	150

CALCULATIONS ARE BASED ON 2018 IMC

AIR BALANCE SCHEDULE

EXHAUST EQUIPMENT	AREA/EQUIPMENT SERVED		EXHAUST (CFM)	TOTALS (CFM)
EF-1	RESTROOM		75	
				75

OUTDOOR AIR EQUIPMENT	AREA/EQUIPMENT SERVED	SUPPLY AIR (CFM)	DESIGN OA (CFM)	PERCENT OA/SA		
RTU-1	KITCHEN	1,950	150	7.7%		
TOTAL AIRFLOW		1,950	150	7.7%		150
				TOTAL POSITIVE AIR FLOW		75
				PERCENT POSITIVE AIR FLOW		50.0%

EXHAUST AIR REQUIREMENTS

AREA PURPOSE	FIXTURE QUANTITY	GROSS FLOOR AREA (SQ. FT)	CODE EXHAUST AIR REQUIREMENTS IMC TABLE 403.3.1: CFM PER SQ. FT	CFM PER FIXTURE
PUBLIC RESTROOM	1			70
	1	0		TOTAL =

SYSTEM NUMBER	ACTUAL EXHAUST AIR
EF-1	75
TOTAL =	75

CALCULATIONS ARE BASED ON 2018 IMC

GRILLE, REGISTER AND DIFFUSER SCHEDULE

MARK	MANUFACTURER	MODEL	FACE TYPE	MOUNTING LOCATION	FACE SIZE (IN)	MAX. NC	MAX. PRESS. DROP (IN. W.C.)	NOTES
CD-1	TITUS	TMS	CONE	LAY IN	24x24	25	0.05	A-D
RG-1	TITUS	PAR	PERFORATED	LAY IN	22x22	25	0.05	A,C,D

NOTES:
A. NECK SIZE SHOWN ON DRAWINGS. BRANCH DUCT SIZE SHALL BE SAME AS NECK SIZE UNLESS OTHERWISE SHOWN ON DRAWINGS.
B. 4-WAY THROW PATTERN UNLESS OTHERWISE SHOWN ON DRAWINGS.
C. BAKED ENAMEL FINISH, WHITE TO MATCH CEILING COLOR.
D. FRAME TYPE TO MATCH MOUNTING LOCATION CONSTRUCTION MATERIAL. COORDINATE WITH ARCHITECTURAL REFLECTED CEILING PLAN.

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:
MECHANICAL SCHEDULES

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
KAM

CHECKED BY:
ACR

SHEET NO.
M0.1

COMcheck-Web™

Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	250701 - SCOOTER'S COFFEE - ERWIN, NC
Location:	Erwin, North Carolina
Climate Zone:	4a
Project Type:	New Construction
Project No:	83518
All Electric:	true
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:

503 E. Jackson Blvd.
Erwin , North Carolina 28339

Owner/Agent:

Scooter's Coffee

Designer/Contractor:

Notes:

Building Area

Description	Floor Area
1-Dining: Cafeteria-Fast Food (Dining: Cafeteria/Fast Food) : Nonresidential	664

Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	250701 - SCOOTER'S COFFEE - ERWIN, NC
Location:	Erwin, North Carolina
Climate Zone:	4a
Project Type:	New Construction

Construction Site:

503 E. Jackson Blvd.
Erwin , North Carolina 28339

Owner/Agent:

Scooter's Coffee

Designer/Contractor:

Mechanical Systems List

Quantity	Component	Description
HVAC Systems		
1	RTU-1 (Single Zone):	Heating: 1 each - Central Furnace (RTU-1), Electric, Capacity = 44 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Single Package DX Unit (RTU-1), Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: RTU-1 | Space - Compliance (Motor nameplate HP and fan efficiency method) : Fails: FAIL.S: Fan system has no fans Fans:
Water Heaters		
1	WH-1:	Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump No minimum efficiency requirement applies

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 COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Robert L. Queathem 01/16/26

Name - Title **Signature** **Date**

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 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.

Plan Review

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
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 Comply ☐ Not Observable ☐ Not Applicable	
C103.2 [PR2]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C103.2 [PR3]¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the service water heating systems and equipment and document where exceptions to the standard are claimed. Hot water system sized per manufacturer's sizing guide.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Footing / Foundation Inspection

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.12.2, C403.12.3 [FO9]¹	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature and outdoor temperature. future connection to controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Plumbing Rough-In Inspection

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6]¹	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C404.6.1, C404.6.2 [PL3]¹	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C404.6.3 [PL7]¹	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C404.7 [PL8]¹	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Mechanical Rough-In Inspection

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41]¹	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.5.5 [ME113]¹	Fault detection and diagnostics installed with air-cooled unitary DX units having economizers.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.2.2 [ME59]¹	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.7.1 [ME59]¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant density and served by systems with air side economizer, auto-modulating outside air damper control, or design airflow >3,000 cfm.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.7.2 [ME115]¹	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.7.6 [ME141]¹	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.7.4 [ME57]¹	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.7.5 [ME116]¹	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.11.1, C403.11.2 [ME60]¹	HVAC ducts and plenums insulated in accordance with C403.11.1 and constructed in accordance with C403.11.2. verification may need to occur during Foundation Inspection.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME62]¹	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.5.3.3 [ME124]¹	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

REGISTRATION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM

4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

MECHANICAL ENERGY COMPLIANCE

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
JCC

CHECKED BY:
ACR

SHEET NO.

M0.2

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.5.3.4 [ME125]¹	System capable of relieving excess outdoor air during air economizer operation to prevent overpressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.5.3.5 [ME126]¹	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.4.1.4 [ME63]²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.8.1 [ME65]¹	HVAC fan systems at design conditions do not exceed allowable fan system motor nameplate hp or fan system bhp.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	*See the Mechanical Systems list for values*
C403.3.3 [ME35]¹	Hot gas bypass limited to: <=240 kBtu/h - 50% >240 kBtu/h - 25%	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.2.1 [ME53]¹	Air outlets and zone terminal devices have means for air balancing.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.5, C403.5.1, C403.5.2 [ME123]¹	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.5.1 and refrigeration compressor systems that comply with C403.5.2.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.8.3 [ME117]²	Fans have efficiency grade (FEG) >= 67. The total efficiency of the fan at the design point of operation >= 15% of maximum total efficiency of the fan.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.12.1 [ME71]¹	Systems that heat outside the building envelope are radiant heat systems controlled by an occupancy sensing device or timer switch.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Rough-In Electrical Inspection

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL26]²	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
C405.9 [EL29]²	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Final Inspection

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C403.4.1.2 [FI38]²	Thermostatic controls have a 5 °F deadband.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.2.4.1.3 [FI20]¹	Temperature controls have setpoint overlap restrictions.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.2.4.2 [FI39]¹	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.2.4.2.1, C403.2.4.2.2 [FI40]¹	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C404.3 [FI11]¹	Heat traps installed on supply and discharge piping of non-circulating systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C404.4 [FI25]²	All piping insulated in accordance with section details and Table C403.11.3.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C404.6.1 [FI12]¹	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C303.3, C408.2.5.3 [FI8]¹	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.1 [FI28]¹	Commissioning plan developed by registered design professional or approved agency.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
C408.2.3.1 [FI31]¹	HVAC equipment has been tested to ensure proper operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.3.2 [FI10]¹	HVAC control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.3.3 [FI32]¹	Economizers have been tested to ensure proper operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.4 [FI29]¹	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5.1 [FI7]¹	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5.3 [FI43]¹	An air and/or hydronic system balancing report is provided for HVAC systems.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5.4 [FI30]¹	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.2.2 [FI27]¹	HVAC systems and equipment capacity does not exceed calculated loads.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C403.2.4.1 [FI47]¹	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

REGISTRATION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM

4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcrv.com

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TITLE:

MECHANICAL ENERGY COMPLIANCE

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

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JCC

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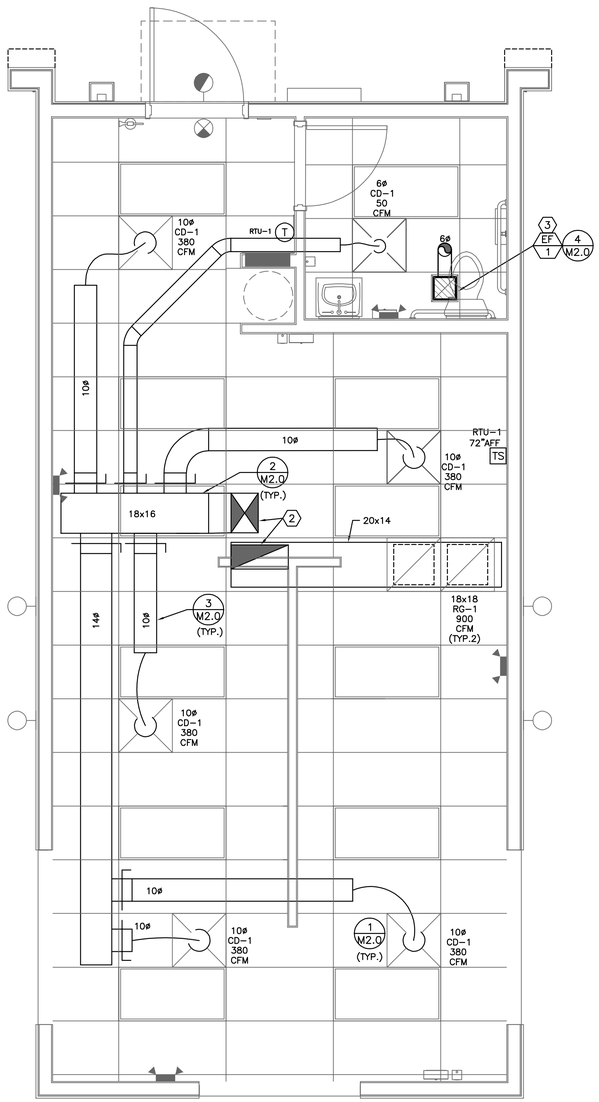
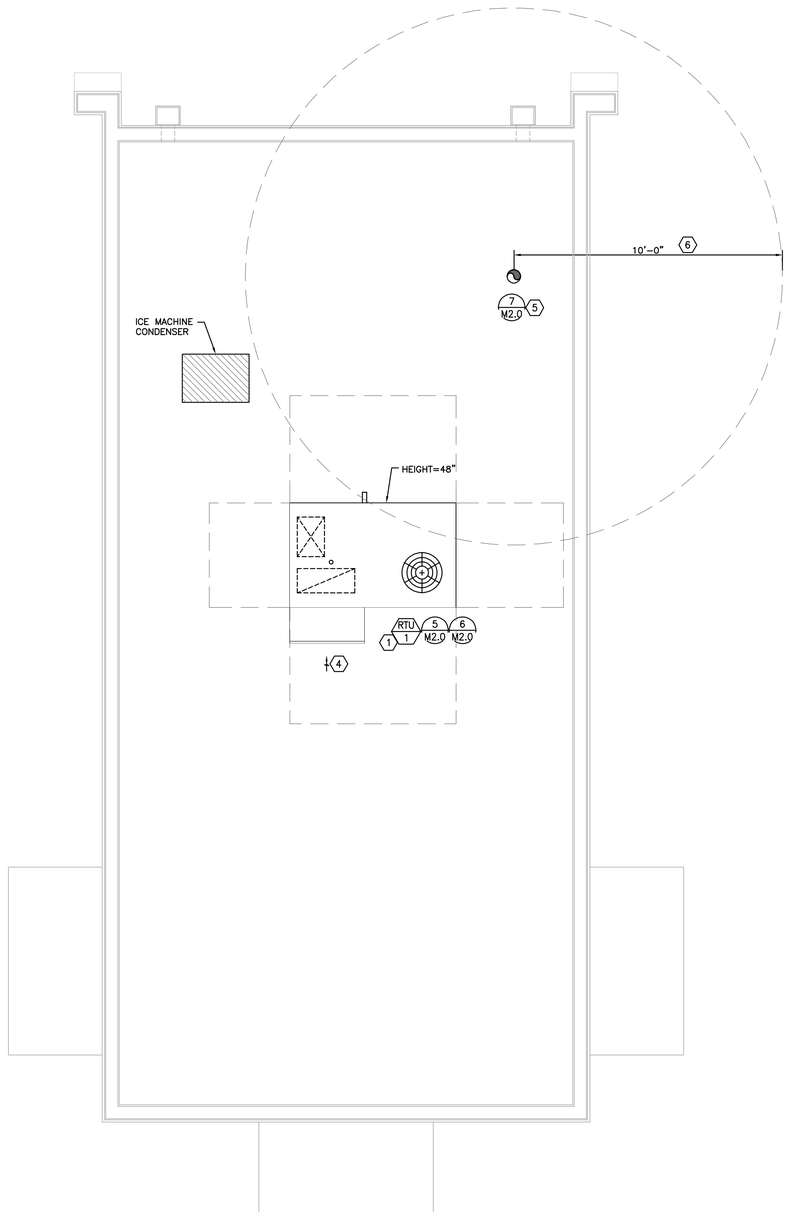
ACR

SHEET NO.

M0.3



1 MECHANICAL FLOOR PLAN
SCALE: 3/8"=1'-0"



2 MECHANICAL ROOF PLAN
SCALE: 3/8"=1'-0"

MECHANICAL PLAN NOTES:

1. NEW PACKAGED ROOF TOP UNIT ON NEW ROOF CURB. COORDINATE EXACT LOCATION WITH STRUCTURAL DRAWINGS. ROUTE SUPPLY AND RETURN DUCTWORK DOWN THROUGH ROOF. COORDINATE SIZE OF DUCTWORK TO CLEAR ROOF STRUCTURE AT THE UNDERSIDE OF THE ROOF DECK. ADJUST DUCT SIZE AS NECESSARY WHILE MAINTAINING EQUIVALENT CROSS-SECTIONAL AREA OF DUCTWORK. SEE FLOOR PLAN FOR CONTINUATION OF DUCTWORK ROUTING.
2. ROUTE FULL SIZE SUPPLY AND RETURN AIR DUCTWORK THROUGH ROOF AND TRANSITION TO DUCTWORK INDICATED ON FLOOR PLAN. BALANCE OUTSIDE AIR DUCTWORK CFM TO AIRFLOW INDICATED ON PLAN.
3. CEILING MOUNTED RESTROOM EXHAUST FAN, INTERLOCKED WITH RESTROOM LIGHT SWITCH. ROUTE 6"ø EXHAUST DUCT UP AND PENETRATE ROOF. TERMINATE ON ROOF WITH ROOF CAP. COORDINATE LOCATION OF DISCHARGE TO MAINTAIN MINIMUM 10'-0" DISTANCE AWAY FROM ANY BUILDING INTAKES OR OPENINGS.
4. OUTSIDE AIR INTAKE OF ROOF TOP UNIT. AIR INTAKE SHALL BE MINIMUM 10'-0" AWAY FROM ANY EXHAUST FANS AND PLUMBING VENTS.
5. RESTROOM EXHAUST TERMINATION ROOF CAP ON ROOF CURB. COORDINATE LOCATION OF ROOF CAP TO MAINTAIN 10'-0" MINIMUM CLEARANCE FROM FRESH AIR INTAKES, 3'-0" FROM OPENINGS INTO BUILDING AND 3'-0" FROM PROPERTY LINE.
6. 10'-0" HORIZONTAL EXHAUST CLEARANCE RADIUS FROM EQUIPMENT AND BUILDING INTAKES.

CONTRACTOR NOTE:

A. REFRIGERATION LINES ARE TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcri.com

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MECHANICAL PLANS

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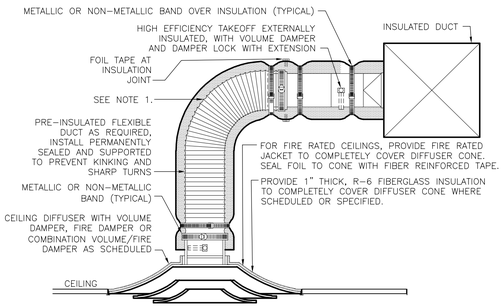
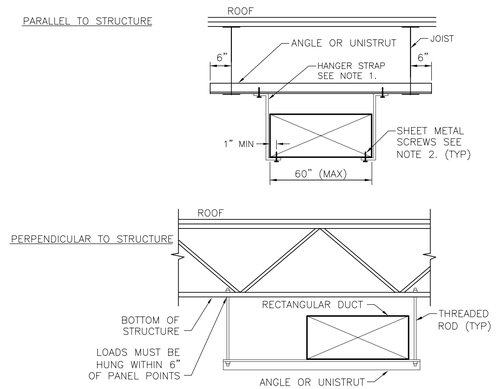


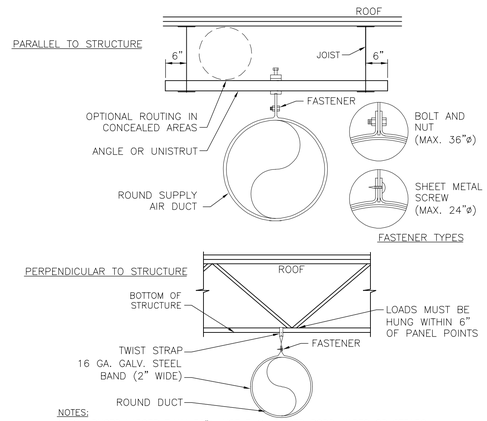
NOTES:
1. EXTEND RIGID METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 5'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 5'-0" LENGTH LIMITATION.
2. PROVIDE RIGID ROUND-TO-OVAL TRANSITION WHEN PLENUM HAS OVAL CONNECTION.

1 LAY-IN TYPE CEILING DIFFUSER DETAIL
NO SCALE



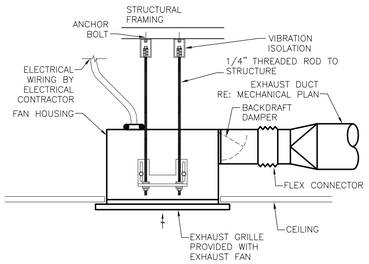
NOTES:
1. USE THREADED ROD FOR ALL DUCTS LARGER THAN 60"ø WIDE.
2. SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE DUCT.

2 RECTANGULAR DUCT SUPPORT DETAIL
NO SCALE

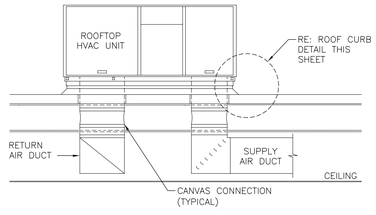


NOTES:
1. FOR DUCTS LARGER THAN 36"ø, USE TWO HANGER RODS, WIRES OR STRAPS TO SUPPORT DUCT FROM EACH SIDE.

3 ROUND DUCT SUPPORT DETAIL
NO SCALE

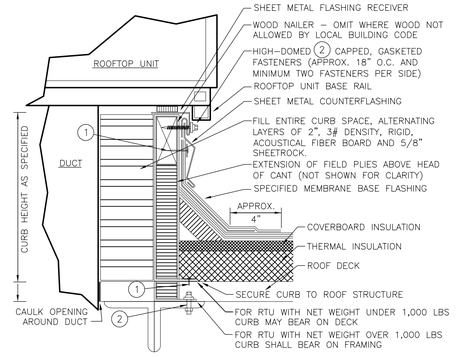


4 CEILING MOUNTED EXHAUST FAN
NO SCALE



NOTES:
1. PROVIDE OPENING THROUGH ROOF AND ROOF DECK INSULATION NO LARGER THAN REQUIRED TO ALLOW DUCTS TO PASS THROUGH. REFER TO PLANS FOR DUCT SIZES. TRANSITION AS REQUIRED IN ROOF CURB TO RTU SUPPLY AND RETURN OPENINGS.
2. PROVIDE SLOPED ROOF CURB TO INSTALL ROOFTOP UNIT LEVEL TO ENSURE PROPER DRAINAGE. COORDINATE ROOF SLOPE WITH ARCHITECTURAL. FLASH AND COUNTER FLASH ROOF PENETRATIONS, ETC. TO ENSURE WEATHER TIGHT INSTALLATION.

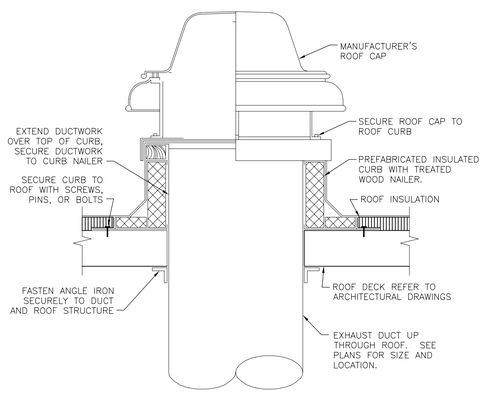
5 ROOFTOP UNIT WITH DUCTWORK DETAIL
NO SCALE



(1) #12x1" SELF DRILLING SCREWS AT 18"O.C.
(2) 7/16"-#14x1-1/2" HEX BOLT & LOCK NUT AT 24"O.C.

NOTES:
1. CUT METAL DECKING TO ALLOW CURB INSTALLATION ON STEEL FRAMING. AFTER CURB IS SET IN PLACE, TRIM REMAINING METAL DECKING AND INSTALL WITHIN CURB. TACK WELD DECKING TO SUPPORT STEEL. DO NOT WELD INTERIOR DECKING TO ROOF CURB. PROVIDE ADDITIONAL CROSS FRAMING TO SUPPORT INTERIOR DECKING AND FILL MATERIAL AS REQUIRED.

6 ROOF CURB DETAIL
NO SCALE



ROOF CAP AND AIR DUCT ROOF PENETRATION DETAIL
NO SCALE

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcri.com

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MECHANICAL DETAILS

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503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
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KIOSK PROTOTYPE:
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DRAWN BY:
KAM

CHECKED BY:
ACR

SHEET NO.
M2.0

MECHANICAL SPECIFICATIONS:

GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. CONTRACTOR SHALL BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. THE WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES, AND LABOR REQUIRED TO COMPLETE THE ENTIRE SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND DRAWINGS FOR THE PROJECT ARE COMPLEMENTARY, AND PORTIONS OF THE WORK DESCRIBED IN ONE SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES, NOTIFY THE ENGINEER AND REQUEST CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK INVOLVED.

DEFINITIONS

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

FURNISHED BY OWNER OR FURNISHED BY OTHERS: THE ITEM WILL BE FURNISHED BY THE OWNER OR OTHERS. IT IS TO BE INSTALLED AND CONNECTED UNDER THE REQUIREMENTS OF THIS DIVISION, COMPLETE AND READY FOR OPERATION, INCLUDING ITEMS INCIDENTAL TO THE WORK, INCLUDING SERVICES NECESSARY FOR PROPER INSTALLATION AND OPERATION. THE INSTALLATION SHALL BE INCLUDED UNDER THE GUARANTEE REQUIRED BY THIS DIVISION.

AHJ: THE LOCAL CODE AND/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER THE WORK.

THE TERMS "APPROVED EQUAL", "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOUSLY AND SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO THE ENGINEER AS EQUIVALENT TO THE ITEM OR MANUFACTURER SPECIFIED". THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY A NATIONALLY RECOGNIZED TESTING LABORATORY (E.G. UL, ETL, CSA), AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS OTHERWISE INDICATED, THE GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION WHERE CHASES AND OPENINGS ARE REQUIRED. KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT AND EXECUTE WORK IN A MANNER AS TO NOT INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS THAT COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND INSPECTION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S), AS STATED IN THE GENERAL CONDITIONS AND DIVISION 1.

WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER.

PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

CUTTING AND PATCHING

PERFORM CUTTING OF WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED TO INSTALL WORK UNDER THIS SECTION. OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO CUTTING. DO NOT CUT OR DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH THE ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

CONCRETE BASES

PROVIDE CONCRETE BASES FOR EQUIPMENT WHERE INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN. CONCRETE BASES SHALL HAVE CHAMFERED EDGES. SIZE OF PAD SHALL BE A MINIMUM OF 4" GREATER THAN THE FOOTPRINT OF THE EQUIPMENT THAT IT IS SUPPORTING AND SHALL HAVE A MINIMUM HEIGHT OF 3-1/2".

CONSTRUCT EQUIPMENT BASES AND HOUSEKEEPING PADS OF A MINIMUM 28 DAY, 4000 PSI CONCRETE CONFORMING TO AMERICAN CONCRETE INSTITUTE STANDARD BUILDING CODE FOR REINFORCED CONCRETE (ACI 318-19) AND THE LATEST APPLICABLE RECOMMENDATIONS OF THE ACI STANDARD PRACTICE MANUAL. CONCRETE SHALL BE COMPOSED OF CEMENT CONFORMING TO ASTM C 150 TYPE I, AGGREGATE CONFORMING TO ASTM C33, AND POTABLE WATER. EXPOSED EXTERIOR CONCRETE SHALL CONTAIN 5 TO 7 PERCENT AIR ENTRAINMENT.

PROVIDE GALVANIZED ANCHOR BOLTS FOR EQUIPMENT PLACED ON CONCRETE EQUIPMENT BASES AND HOUSEKEEPING PADS OR ON CONCRETE SLABS. ANCHOR BOLTS SIZE, NUMBER AND PLACEMENT SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.

ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS, WALLS, ETC. WHERE INDICATED OR REQUIRED FOR ACCESS OR MAINTENANCE TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION AND COLOR BEFORE ORDERING.

PENETRATIONS

PROVIDE SLEEVES FOR PIPES PASSING THROUGH ABOVE GRADE CONCRETE OR MASONRY WALLS, CONCRETE FLOOR OR ROOF SLABS. SLEEVES ARE NOT REQUIRED FOR CORE DRILLED HOLES IN EXISTING MASONRY WALLS, CONCRETE FLOORS OR ROOFS. PROVIDE 10 GAUGE GALVANIZED STEEL SLEEVES FOR SLEEVES 6" AND SMALLER. PROVIDE GALVANIZED SHEET METAL SLEEVES FOR LARGER THAN 6". SCHEDULE 40 PVC SLEEVES ARE ACCEPTABLE FOR INSTALLATION IN AREAS WITHOUT RETURN AIR PLENUMS.

SEAL ELEVATED FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT WITH NON-SHRINK, NON-HARDENING COMMERCIAL SEALANT. PACK WITH MINERAL WOOL AND SEAL BOTH ENDS WITH MINIMUM OF 1/2" OF SEALANT. SEAL AROUND PENETRATIONS OF FIRE RATED ASSEMBLIES. COORDINATE FIRE RATINGS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRE STOPPINGS. PROVIDE A PRODUCT SCHEDULE FOR UL LISTING, LOCATION, WALL OR FLOOR RATING AND INSTALLATION DRAWING FOR EACH PENETRATION FIRE STOP SYSTEM.

EXTEND PIPE INSULATION FOR INSULATED PIPE THROUGH FLOOR, WALL AND ROOF PENETRATIONS, INCLUDING FIRE RATED WALLS AND FLOORS. THE VAPOR BARRIER SHALL BE MAINTAINED. SIZE SLEEVE FOR A MINIMUM OF 1" ANNULAR CLEAR SPACE BETWEEN INSIDE OF SLEEVE AND OUTSIDE OF INSULATION.

PROVIDE PREFABRICATED ROOF CURBS MANUFACTURED BY CUSTOM CURB, INC., PATE COMPANY, THYCURB OR APPROVED EQUAL. PROVIDE ROOF CURB WITH FACTORY INSTALLED WOOD NAILER; WELDED, 18 GAUGE GALVANIZED STEEL SHELL, BASE PLATE AND FLASHING; 1-1/2" THICK, 3 POUND RIGID INSULATION; FULLY MITERED 3-INCH RAISED CANT; COVER OF WEATHER-RESISTANT, WEATHER-PROOF MATERIAL AND PIPE COLLAR OF WEATHER-RESISTANT MATERIAL WITH STAINLESS STEEL PIPE CLAMPS.

PROVIDE BOX FRAMES FOR RECTANGULAR OPENINGS WELDED 12 GAUGE GALVANIZED STEEL ATTACHED TO FORMS AND OF A MAXIMUM DIMENSION ESTABLISHED BY THE ARCHITECT. NOTIFY THE GENERAL CONTRACTOR OR ARCHITECT BEFORE INSTALLING ANY BOX OPENINGS NOT SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS.

SEAL CONCRETE OR MASONRY EXTERIOR WALL PENETRATIONS BELOW GRADE WITH "WALL PIPES" AND MECHANICAL SLEEVE SEALS. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN. PROVIDE MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE / LINK SEAL, CALPICO, INC. AND METRAFLEX.

SEAL ELEVATED CONCRETE SLAB WITH WATERPROOF MEMBRANE PENETRATIONS WITH "WALL PIPES" AND WATER PROOF SEALANT. SECURE WATERPROOF MEMBRANE FLASHING BETWEEN "WALL PIPE" CLAMPING FLANGE AND CLAMPING RING. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SCHEDULE 40 PVC PIPE SLEEVES FOR VERTICAL PRESSURE PIPE PASSING THROUGH CONCRETE SLAB ON GRADE. SLEEVES SHALL BE ONE NOMINAL PIPE SIZE LARGER THAN THE PIPE SERVED AND TWO PIPE SIZES LARGER THAN PIPE SERVED FOR DUCTILE IRON PIPES WITH RESTRAINING RODS. SEAL WATER-TIGHT WITH SILICONE CAULK.

PROVIDE 1/2" THICK CELLULAR FOAM INSULATION AROUND PERIMETER OF NON-PRESSURE PIPE PASSING THRU CONCRETE SLAB ON GRADE. INSULATION SHALL EXTEND TO 2" ABOVE AND BELOW THE CONCRETE SLAB.

ELECTRICAL WIRING

LINE VOLTAGE WIRING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. LINE VOLTAGE CONTROL AND INTERLOCK WIRING FOR MECHANICAL SYSTEMS SHALL ALSO BE PROVIDED BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. FURNISH WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE WITH THE ELECTRICAL CONTRACTOR THE ACTUAL WIRE SIZING AMPS FOR MECHANICAL EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) TO ENSURE PROPER INSTALLATION.

FINAL TESTING AND ADJUSTMENTS

FINAL SYSTEM TESTING, BALANCING AND ADJUSTMENTS SHALL BE PERFORMED BY A CONTRACTOR CERTIFIED BY THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB), ASSOCIATED AIR BALANCE COUNCIL (AABC) OR OTHER APPROVED AGENCY. PERFORM TEST READINGS ON FANS, UNITS, COILS, ETC. AND ADJUST EQUIPMENT TO DELIVER SPECIFIED AMOUNTS OF AIR. PREPARE TESTING AND BALANCING REPORT LOG SHOWING AIR SUPPLY QUANTITIES, AIR ENTERING AND LEAVING TEMPERATURES AND PRESSURES, FAN AND UNIT TEST READINGS, MOTOR VOLTAGE AND AMP DRAWS, ETC., AND SUBMIT SIX COPIES OF THE FINAL COMPILATION OF DATA TO THE ARCHITECT FOR EVALUATION AND APPROVAL BEFORE FINAL INSPECTION OF THE PROJECT. BALANCE AIR SYSTEMS TO WITHIN PLUS OR MINUS 10 PERCENT FOR TERMINAL DEVICES AND BRANCH LINES AND PLUS OR MINUS 5 PERCENT FOR MAIN DUCTS AND AIR HANDLING EQUIPMENT OF THE AMOUNT OF AIR SHOWN ON THE DRAWINGS. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. ADJUST EQUIPMENT TO OPERATE AS INTENDED BY THE SPECIFICATION. ALIGN BEARINGS AND REPLACE BEARINGS THAT HAVE DIRT OR FOREIGN MATERIAL IN THEM WITH NEW BEARINGS WITHOUT ADDITIONAL COST TO THE OWNER. BALANCE CONTRACTOR SHALL INCLUDE IN THE REPORT ANY IMPROPERLY INSTALLED OR MISSING BALANCING DEVICES THAT WOULD NEGATIVELY IMPACT THE SYSTEM OPERATION.

ADJUST THERMOSTATS AND CONTROL DEVICES TO OPERATE AS INTENDED. ADJUST BURNERS, PUMPS, FANS, ETC. FOR PROPER AND EFFICIENT OPERATION. CERTIFY TO ARCHITECT THAT ADJUSTMENTS HAVE BEEN MADE AND THAT SYSTEM IS OPERATING SATISFACTORILY. FURTHER ADJUSTMENTS SHALL BE MADE TO OBTAIN UNIFORM TEMPERATURE IN SPACES. CALIBRATE, SET, AND ADJUST AUTOMATIC TEMPERATURE CONTROLS. CHECK PROPER SEQUENCING OF INTERLOCK SYSTEMS, AND OPERATION OF SAFETY CONTROLS.

EQUIPMENT FURNISHED BY OTHERS

PROVIDE NECESSARY EQUIPMENT AND ACCESSORIES THAT ARE NOT PROVIDED BY THE EQUIPMENT SUPPLIER OR OWNER TO COMPLETE INSTALLATION OF COOKING EQUIPMENT, WASHING EQUIPMENT, ETC., FURNISHED BY OTHERS, IN LOCATIONS AS INDICATED ON THE DRAWINGS AND/OR DESCRIBED IN THE GENERAL NOTES TO THIS CONTRACTOR. EQUIPMENT AND ACCESSORIES NOT PROVIDED BY THE EQUIPMENT SUPPLIER MAY INCLUDE FLUES, VENTS, INTAKES, ASSOCIATED ROOF JACKS AND CAPS TO OUTDOORS, DAMPERS, IN-LINE FANS, ROOF FANS, CONTROL INTERLOCKS, ETC. AS REQUIRED FOR PROPER OPERATION OF THE COMPLETE SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECT ROUGH-IN DIMENSIONS AND SHALL VERIFY SAME WITH ARCHITECT AND/OR EQUIPMENT SUPPLIER PRIOR TO SERVICE INSTALLATIONS.

DUCT INSULATION

PROVIDE DUCT LINER IN CONCEALED RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK. LINER SHALL BE 1-1/2" THICK, 1-1/2" POUND DENSITY FIBERGLASS, MINIMUM R-6.0 CERTAINTEED CORP. "TOUGHGARD" OR EQUIVALENT OWENS-CORNING OR KNAUF LONG TEXTILE FIBER DUCT LINER. LINER SURFACE SHALL SERVE AS A BARRIER AGAINST INFILTRATION OF DUST AND DIRT, SHALL MEET ASTM C 1338 FOR FUNGI RESISTANCE AND SHALL BE CLEANABLE USING DUCT CLEANING METHODS AND EQUIPMENT OUTLINED BY NORTH AMERICAN INSULATION MANUFACTURERS ASSOCIATION (NAIMA) DUCT CLEANING GUIDE. INSTALL WITH LINER ADHESIVE AND MECHANICAL FASTENERS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. DUCTWORK SIZES SHOWN ON DRAWINGS ARE INSIDE CLEAR DIMENSIONS. INCREASE SHEET METAL BY LINER THICKNESS IN BOTH DIRECTIONS WHERE LINER IS INSTALLED.

COVER CONCEALED, RIGID DUCTWORK WITH 2" THICK, 3/4 POUND DENSITY, MINIMUM R-6.0 DUCT WRAP, CERTAINTEED OR EQUIVALENT OWENS-CORNING OR KNAUF WITH HEAVY-DUTY FOIL-SCRIM-KRAFT FACING, AND WITH JOINTS TAPED WITH 3" WIDE FOIL TAPE AS FOLLOWS:

A. ROUND AND/OR RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK.

B. ROUND AND RECTANGULAR OUTSIDE AIR DUCTWORK.

C. ROUND AND RECTANGULAR EXHAUST AND RELIEF AIR DUCTWORK WITHIN 10 FEET OF EXTERIOR DISCHARGE.

INSULATING MATERIALS, ADHESIVES, COATINGS, ETC., SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPED RATING OF 50 PER ASTM E 84. CONTAINERS FOR MASTICS AND ADHESIVES SHALL HAVE U.L. LABEL.

FOR DUCTWORK THAT IS LOCATED EXTERIOR TO THE BUILDING AND INSTALLED WITH SEAMS SEALED WITH SEALANT, PROVIDE 2" (MINIMUM R-8.0) THICK, 3 POUND DENSITY LINER. FOR WELDED DUCTWORK THAT IS EXTERIOR TO THE BUILDING, INSULATE WITH 2" (MINIMUM R-8.0) THICK FIBROUS BOARD INSULATION AND PROVIDE MINIMUM 20 GAUGE ALUMINUM JACKET OR 2" (MINIMUM R-8.0) THICK FLEXIBLE ELASTOMERIC CLOSED CELL INSULATION SIMILAR TO ARMACELL ARMATUFF PLUS WITH A WEATHER AND UV RESISTANT LAMINATED METAL FOIL AND POLYESTER MEMBRANE AROUND A SCRIM REINFORCED CORE. SEAL ALL EXPOSED EDGES.

DUCTWORK

PROVIDE GALVANIZED STEEL DUCTWORK AND HOUSINGS AS SHOWN ON DRAWINGS. CONSTRUCT DUCTWORK INCLUDING FITTINGS AND TRANSITIONS IN CONFORMANCE WITH CURRENT SMACNA STANDARDS RELATIVE TO GAUGE, BRACING, JOINTS, ETC. MINIMUM THICKNESS OF DUCT SHALL BE 26-GAUGE SHEET METAL. REINFORCE HOUSINGS AND DUCTWORK OVER 30" WITH 1-1/4" ANGLES NOT LESS THAN 5'-6" ON CENTERS, AND CLOSER IF REQUIRED FOR SUFFICIENT RIGIDITY TO PREVENT VIBRATION. SUPPORT HORIZONTAL RUNS OF DUCT FROM STRAP IRON HANGERS ON CENTERS NOT TO EXCEED 8'-0". DO NOT SUPPORT CEILING GRID, CONDUITS, PIPES, EQUIPMENT, ETC. FROM DUCTWORK. COORDINATE ROUTING OF DUCTWORK WITH OTHER CONTRACTORS SUCH THAT PIPING, ELECTRICAL CONDUIT, AND ASSOCIATED SUPPORTS ARE NOT ROUTED THROUGH THE DUCTWORK.

CONSTRUCT SUPPLY DUCTS TO MEET SMACNA POSITIVE PRESSURE OF 2" W.G. CONSTRUCT RETURN, OUTDOOR AND EXHAUST DUCTWORK UPSTREAM OF FANS TO MEET SMACNA NEGATIVE PRESSURE OF 2" W.G. CONSTRUCT EXHAUST DUCTWORK DOWNSTREAM OF FANS TO MEET SMACNA POSITIVE PRESSURE OF 2" W.G.

PROVIDE MILL PHOSPHATIZED OR GALVANEALED FINISH FOR EXPOSED DUCTWORK TO BE FIELD PAINTED. SHOP TREATED SHEET METAL SHALL HAVE GALVANIZED METAL PRIMER APPLIED IN THE SHOP AFTER FABRICATION AND PRIOR TO SHIPPING.

DUCTWORK ABOVE ROOF OR OTHERWISE EXTERIOR TO BUILDING SHALL BE MINIMUM #18 GAUGE WITH LONGITUDINAL AND TRANSVERSE JOINTS WELDED OR SEALED AIRTIGHT WITH WEATHERPROOF HEAVY LIQUID SEALANT APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

SEAL DUCTWORK WITH HEAVY LIQUID SEALANT, HARDCAST IRONGRIP 601, DESIGN POLYMER DP 1010, UNITED MCGILL DUCT SEALER OR APPROVED EQUAL, APPLIED ACCORDING TO SEALANT MANUFACTURER'S INSTRUCTIONS. FOR DUCTS WITH PRESSURE CLASSIFICATION OF 2" W.G. AND GREATER SEAL LONGITUDINAL AND TRANSVERSE DUCTWORK JOINTS AIRTIGHT TO MEET SMACNA CLASS B. FOR DUCTS WITH PRESSURE CLASSIFICATION LESS THAN 2" W.G. SEAL TRANSVERSE JOINTS AIRTIGHT TO MEET SMACNA CLASS C. TAPES AND MASTICS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A.

PROVIDE RADIUS ELBOWS, TURNS, AND OFFSETS WITH A MINIMUM CENTERLINE RADIUS OF 1-1/2 TIMES THE DUCT WIDTH. WHERE SPACE DOES NOT PERMIT FULL RADIUS ELBOWS, PROVIDE SHORT RADIUS ELBOWS WITH A MINIMUM OF TWO CONTINUOUS SPLITTER VANES. VANES SHALL BE THE ENTIRE LENGTH OF THE BEND. PROVIDE MITERED ELBOWS WHERE SPACE DOES NOT PERMIT RADIUS ELBOWS, WHERE SHOWN ON THE DRAWINGS, OR AT THE OPTION OF THE CONTRACTOR WITH THE ENGINEER'S APPROVAL. MITERED ELBOWS LESS THAN 45 DEGREES SHALL NOT REQUIRE TURNING VANES. MITERED ELBOWS 45-DEGREES AND GREATER SHALL HAVE SINGLE THICKNESS TURNING VANES OF SAME GAUGE AS DUCTWORK, RIGIDLY FASTENED WITH GUIDE STRIPS IN DUCTWORK. VANES FOR MITERED ELBOWS SHALL BE PROVIDED IN ALL SUPPLY AND EXHAUST DUCTWORK AND IN RETURN AND OUTSIDE AIR DUCTWORK THAT HAS AN AIR VELOCITY EXCEEDING 1000 FPM. DO NOT INSTALL VANES IN GREASE DUCTWORK.

DUCTS SHALL BE CONNECTED TO FANS, FAN CASINGS AND FAN PLENUMS BY MEANS OF FLEXIBLE CONNECTORS. FLEXIBLE CONNECTORS SHALL BE NEOPRENE COATED GLASS CLOTH CANVAS CONNECTIONS, DURO-DYNE, ELGEN, VENTFABRIC OR EQUAL. FLEXIBLE CONNECTORS SHALL HAVE A FLAME SPREAD OF 25 OR LESS AND SMOKE DEVELOPED RATING NOT HIGHER THAN 50. MAKE AIRTIGHT JOINTS AND INSTALL WITH MINIMUM 1-1/2" SLACK.

PROVIDE BALANCING DAMPERS, MANUFACTURED BY RUSKIN, GREENHECK, NAILOR INDUSTRIES, CESCO, LOUVERS & DAMPERS, POTTORFF OR APPROVED EQUAL, WHERE SHOWN ON DRAWINGS AND WHEREVER NECESSARY FOR COMPLETE CONTROL OF AIR FLOW. SPLITTER DAMPERS SHALL BE CONTROLLED BY LOCKING QUADRANTS; PROVIDE YOUNG REGULATOR OR VENTLOK END BEARINGS FOR THE DAMPER ROD. RECTANGULAR VOLUME DAMPERS SHALL BE OPPOSED BLADE INTERLOCKING TYPE. ROUND VOLUME DAMPERS SHALL BE BUTTERFLY TYPE CONSISTING OF CIRCULAR BLADE MOUNTED TO A SHAFT. DAMPER LEAKAGE FOR OUTSIDE AIR DAMPERS SHALL NOT EXCEED 4.0 CFM/SQUARE FOOT IN FULL CLOSED POSITION AT 1" WG PRESSURE DIFFERENTIAL ACROSS DAMPER. REFERENCE MANUFACTURER AND MODEL NUMBER FOR OUTSIDE AIR DAMPERS IS RUSKIN MODEL CD-50. PROVIDE FLEXMASTER MODEL STO OR EQUAL 45 DEGREE RECTANGULAR/ROUND SIDE TAKEOFF FITTING WITH MODEL SLBO DOUBLE BEARING DAMPER WITH INSULATION BUILD OUT FOR ROUND DUCTWORK BRANCH TAKEOFFS TO INDIVIDUAL AIR DEVICES. OMIT DAMPER AT TAKEOFF FITTING WHEN DAMPER IS LOCATED DOWNSTREAM OF TAKEOFF.

WHERE ACCESS TO DAMPERS THROUGH A HARD CEILING IS REQUIRED, PROVIDE A METROPOLITAN AIR TECHNOLOGY MODEL RT-250 OR EQUAL BY YOUNG'S REGULATOR CONCEALED, CABLE OPERATED VOLUME DAMPER WITH REMOTE OPERATOR. DAMPER SHALL BE ADJUSTABLE THROUGH THE DIFFUSER FACE OR FRAME WITH STANDARD 1/4" NUTDRIVER OR FLAT SCREWDRIVER. CABLE ASSEMBLY SHALL ATTACH TO DAMPER AS ONE PIECE WITH NO LINKAGE ADJUSTMENT. POSITIVE, DIRECT, TWO-WAY DAMPER CONTROL SHALL BE PROVIDED WITH NO SLEEVES, SPRINGS OR SCREW ADJUSTMENTS TO COME LOOSE AFTER INSTALLATION. SUPPORT CABLE ASSEMBLY TO AVOID BENDS AND KINKS IN CABLE. WHERE APPROVED BY ARCHITECT, A CEILING CUP WITH COVER PLATE CAN BE USED FOR ACCESS TO CABLE OPERATOR.

ROUND OR OVAL DUCTWORK SHALL BE SEMCO, UNITED, WESCO OR EQUAL, SHEETMETAL, WITH SMOOTH INTERIOR SURFACE, WITH LOW PRESSURE (DUCT PRESSURE CLASS UP TO AND INCLUDING 2" W.G.) ROUND DUCTWORK GAUGES PER THE FOLLOWING TABLE (REFERENCE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR GAUGES WHEN PRESSURES EXCEED 2" W.G.):

SIZE	DUCT GAUGE	FITTING GAUGE
14" & UNDER	26	24
15" THRU 26"	24	22
28" THRU 36"	22	20
38" THRU 50"	20	20

LINDAB SPIROSAFE, LEWIS & LAMBERT OR APPROVED EQUAL FACTORY-MANUFACTURED ROUND DUCTWORK AND FITTINGS MAY BE SUBSTITUTED FOR SPECIFIED ROUND BRANCH DUCTWORK, AT CONTRACTORS OPTION. HEAVY LIQUID JOINT SEALANT MAY BE OMITTED ON FACTORY-MANUFACTURED ROUND DUCTWORK.

LOW PRESSURE (DUCT PRESSURE CLASS UP TO AND INCLUDING 2" W.G.) FITTINGS 24" IN DIAMETER AND LESS SHALL BE PREFABRICATED, SPOTWELDED AND INTERNALLY SEALED. CONTINUOUSLY WELD FITTINGS LARGER THAN 24" IN DIAMETER. FITTING GAUGE SHALL BE 22 GAUGE FOR 36" FITTINGS AND UNDER, 20 GAUGE FOR LARGER SIZES. 90 DEGREE TEE'S SHALL BE CONICAL TYPE. SEAL LONGITUDINAL AND TRANSVERSE DUCTWORK JOINTS AIRTIGHT WITH HEAVY LIQUID SEALANT APPLIED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

FLEXIBLE DUCT

LOW PRESSURE (DUCT PRESSURE CLASS UP TO AND INCLUDING 2" W.G.) AND MEDIUM PRESSURE (DUCT PRESSURE CLASS 2.1" TO 6" W.G.) FLEXIBLE DUCT SHALL BE FLEXMASTER TYPE 8B, THERMAFLEX TYPE G-KM, M-KE, OR EQUAL (FIRE RETARDANT POLYETHYLENE) PROTECTIVE VAPOR BARRIER, U.L.181 CLASS 1, ACOUSTICAL INSULATED DUCT, R-6.0 FIBERGLASS INSULATION. PROVIDE CPE LINER WITH STEEL WIRE HELIX MECHANICALLY LOCKED OR PERMANENTLY BONDED TO THE LINER.

FLEXIBLE DUCT RUNS SHALL NOT EXCEED 5 FEET IN LENGTH AND SHALL BE INSTALLED FULLY EXTENDED AND STRAIGHT AS POSSIBLE AVOIDING TIGHT TURNS. INSTALL FLEXIBLE DUCT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SUPPORT FLEXIBLE DUCT AT MAXIMUM 5 FEET ON CENTER AND WITHIN 6 INCHES OF BENDS. BENDS SHALL NOT EXCEED A CENTERLINE RADIUS OF ONE DUCT DIAMETER. DUCT SAG SHALL NOT EXCEED 1/2 INCH. SUPPORTING MATERIAL IN DIRECT CONTACT WITH THE DUCT SHALL NOT BE LESS THAN 1-1/2 INCHES IN WIDTH.

CONNECT FLEXIBLE DUCT TO RIGID METAL DUCT OR AIR DEVICES AS RECOMMENDED BY THE MANUFACTURER. AT A MINIMUM, INSTALL TWO WRAPS OF DUCT TAPE AROUND THE INNER CORE CONNECTION AND A METALLIC OR NON-METALLIC CLAMP OVER THE TAPE AND TWO WRAPS OF DUCT TAPE OR A CLAMP OVER THE OUTER JACKET. DUCT CLAMPS SHALL BE LABELED IN ACCORDANCE WITH UL-181B AND MARKED 181B-C. DUCT TAPE SHALL BE LABELED IN ACCORDANCE WITH UL 181B AND MARKED 181B-FX.

FIRE DAMPERS

PROVIDE FIRE DAMPERS WHERE SHOWN ON DRAWINGS, AND AS REQUIRED BY CODE ENFORCING AUTHORITY. DAMPER RATINGS SHALL BE AS REQUIRED TO MAINTAIN THE FIRE AND/OR SMOKE RATINGS NOTED ON THE ARCHITECTURAL DRAWINGS. PROVIDE FIRE DAMPERS CONFORMING TO NFPA-90A AND UBC STANDARD 43-7 WITH RECOMMENDED STEEL SLEEVES OF LENGTH AS REQUIRED TO MEET THE INSTALLED LOCATION, 165°F FUSIBLE LINK, SPRING CATCHES AND NON-CORROSIVE BEARINGS. DAMPERS SHALL BE U.L. LISTED, MANUFACTURED BY RUSKIN, GREENHECK, AIR BALANCE, CESCO, UNITED AIR OR NAILOR INDUSTRIES. PROVIDE ACCESS DOOR, SIZED PER SMACNA WITH MINIMUM SIZE OF 10" BY 10", IN DUCT FOR INSPECTION AND SERVICE TO FIRE DAMPER AND FUSIBLE LINK.

PROVIDE DUCT ACCESS DOOR(S) WITHIN 12 INCHES OF THE DEVICE TO ALLOW FOR TESTING AND MAINTENANCE. LABEL EACH DOOR (WITH MINIMUM 1" LETTERING) INDICATING WHICH DAMPER TYPE IS SERVED. DOOR SHOULD BE CAPABLE OF BEING FULLY OPENED OR PROVIDE REMOVABLE DOOR. PROVIDE REMOVABLE SECTION OF DUCT WHERE DUCT SIZE IS TOO SMALL FOR 10" BY 10" ACCESS DOOR. PROVIDE ACCESS DOOR IN CEILING OR WALL AS REQUIRED TO ACCESS DAMPER.

COMBINATION FIRE/SMOKE DAMPERS

PROVIDE COMBINATION FIRE/SMOKE DAMPERS WHERE SHOWN ON DRAWINGS AND AS REQUIRED BY CODE ENFORCING AUTHORITY WITH FIRE/SMOKE RATINGS AS REQUIRED TO MAINTAIN THE FIRE RATING NOTED ON THE ARCHITECTURAL DRAWINGS. DAMPERS SHALL MEET UL 555 CLASSIFICATION FOR FIRE RATING AND UL 555S CLASSIFICATION OF LEAKAGE CLASS II SMOKE DAMPER; DAMPER SHALL BEAR A UL LABEL ATTESTING TO THESE CLASSIFICATIONS. PROVIDE FIRE DAMPER WITH A 165° F RESETTABLE TEMPERATURE DEVICE. RATE FIRE/SMOKE DAMPERS FOR A MINIMUM VELOCITY OF 2,000 FPM AND PRESSURE OF 4" W.G. PROVIDE MANUFACTURER RECOMMENDED STEEL SLEEVE OF LENGTH AS REQUIRED TO MEET THE INSTALLED LOCATION. PROVIDE A QUALIFIED 120 VOLT ELECTRIC ACTUATOR INSTALLED BY THE MANUFACTURER AT TIME OF DAMPER FABRICATION. ACTUATORS SHALL BE RATED FOR A MINIMUM OF 20,000 CYCLES OF OPERATION, SHALL COMPLY WITH THE LOCALLY ADOPTED BUILDING CODE AND SHALL OPEN IN 15 SECONDS OR LESS AND CLOSE IN 15 SECONDS OR LESS AFTER ALARM OR SMOKE DETECTION HAS OCCURRED. PROVIDE STAINLESS-STEEL SPRING-LOADED LEAKAGE SEALS IN SIDES OF CASING, AND TERMINAL BLOCK FOR CONNECTION TO THE BUILDING FIRE ALARM SYSTEM. DAMPER SHALL BE MANUFACTURED BY RUSKIN, AIR BALANCE, GREENHECK, CESCO, UNITED AIR OR NAILOR INDUSTRIES.

PROVIDE ACCESS DOOR, SIZED PER SMACNA WITH MINIMUM SIZE OF 10" BY 10", IN DUCT FOR INSPECTION AND SERVICE TO FIRE DAMPER AND FUSIBLE LINK. PROVIDE DUCT ACCESS DOOR(S) WITHIN 12 INCHES OF THE DEVICE TO ALLOW FOR TESTING AND MAINTENANCE. LABEL EACH DOOR (WITH MINIMUM 1" LETTERING) INDICATING WHICH DAMPER TYPE IS SERVED. DOOR SHOULD BE CAPABLE OF BEING FULLY OPENED OR PROVIDE REMOVABLE DOOR. PROVIDE REMOVABLE SECTION OF DUCT WHERE DUCT SIZE IS TOO SMALL FOR 10" BY 10" ACCESS DOOR. PROVIDE ACCESS DOOR IN CEILING OR WALL AS REQUIRED TO ACCESS DAMPER.

REFRIGERANT PIPING AND INSULATION

PROVIDE ASTM B 88, TYPE L OR ASTM B 280, TYPE ACR HARD DRAWN COPPER REFRIGERANT PIPING, CLEANED AND SEALED AT THE FACTORY, AND SPECIFICALLY DESIGNED FOR REFRIGERANT. FITTINGS SHALL BE HARD DRAWN AND HAVE LONG RADIUS TURNS. SOLDER JOINTS WITH "SILFOS" (15 PERCENT SILVER, 5 PERCENT PHOSPHORUS, 80 PERCENT COPPER, 1300 DEGREES FAHRENHEIT FLOW TEMPERATURE). SOLDER JOINTS WITH A SLOW STREAM OF DRY NITROGEN PASSING THROUGH THE PIPING.

INSULATE SUCTION LINES WITH 1" AND LIQUID LINES WITH 1/2" FOAMED PLASTIC INSULATION, ARMAFLEX OR EQUAL. PIPING INSULATION SHALL HAVE A FLAME SPREAD OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84. COAT INSULATION THAT IS EXPOSED TO THE ELEMENTS WITH A PROTECTIVE SEALER. INSTALL AND SUPPORT PIPING TO KEEP NOISE AND VIBRATION TO A MINIMUM. SUPPORT AND SECURE PIPING TO UNISTRUT TYPE SUPPORTS SO THAT NO VIBRATION PASSES TO THE BUILDING STRUCTURE. PIPE ATTACHMENTS SHALL BE COPPER-PLATED OR HAVE NONMETALLIC COATING FOR ELECTROLYTIC PROTECTION WHERE ATTACHMENTS ARE IN DIRECT CONTACT WITH COPPER TUBING. INSTALL A SUPPORT WITHIN ONE FOOT OF EACH CHANGE OF DIRECTION. MOUNT PIPE HANGERS AROUND THE OUTSIDE OF THE INSULATION WITH SADDLES TO PREVENT HANGERS FROM RUPTURING THE INSULATION. REPLACE INSULATION THAT IS CUT OR BROKEN BY THE HANGERS.

RUN REFRIGERANT LINES PARALLEL AND PERPENDICULAR TO WALL AND FLOOR LINES AND TO APPEAR STRAIGHT AND IN GOOD ORDER. PITCH SUCTION LINES DOWN SLIGHTLY (1" IN 20') TOWARDS THE COMPRESSOR. PROVIDE OIL TRAPS AT THE BASE OF VERTICAL SUCTION RISERS OVER 6 FEET HIGH.

INSTALL LIQUID LINE SIGHT GLASSES IN LIQUID LINES NEAREST THE EXPANSION VALVE. FACTORY MOUNT EXPANSION VALVES WITH THE SENSING BULBS SHIPPED LOOSE. FIELD MOUNT EXPANSION VALVE BULB AFTER REFRIGERANT PIPING IS COMPLETE (DAMAGE MAY OCCUR IF BULBS COME IN CONTACT WITH HEAT).

FOR SYSTEMS OF 5 TON CAPACITY AND SMALLER, THE CONTRACTOR SHALL HAVE THE OPTION TO PROVIDE COPPER REFRIGERANT TUBING LINE SET SIZED AS RECOMMENDED BY EQUIPMENT MANUFACTURER AND OF LENGTH AS REQUIRED FOR THE INSTALLATION. PROVIDE 1" THICK FOAMED PLASTIC INSULATION, ARMAFLEX OR EQUAL, ON THE SUCTION LINE. PROVIDE QUICK-CONNECT FLARE TUBING COMPRESSION FITTINGS OR SOLDER CONNECTIONS AS REQUIRED TO MATCH THE CONNECTIONS OF THE CONDENSING UNIT AND EVAPORATOR COIL.

TEMPERATURE CONTROLS

GENERAL REQUIREMENTS

PROVIDE A SYSTEM OF TEMPERATURE CONTROLS INCLUDING THERMOSTATS, CONTROL PANELS, TIME SWITCHES, OVERRIDE TIMERS, DAMPER MOTORS, AND RELAYS REQUIRED TO PROVIDE THE DESIRED SEQUENCE OF OPERATION. PROVIDE INTEGRATED WIRING DIAGRAMS SHOWING INTERCONNECTIONS BETWEEN FIELD INSTALLED EQUIPMENT AND PACKAGE WIRING FURNISHED WITH THE HVAC EQUIPMENT. CONTROL WIRING SHALL BE SIZED TO ACCOMMODATE THE VOLTAGE DROP ASSOCIATED WITH THE DISTANCE BETWEEN THE CONTROL DEVICE AND THE CONTROLLER.

PROVIDE SUPERVISION AND ON-JOB CHECKOUT SERVICE AS REQUIRED TO ENSURE THAT INSTALLATION MEETS REQUIREMENTS OF THE SPECIFICATION. THE SYSTEM SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FOLLOWING THE ACCEPTANCE OF THE SYSTEM BY THE ARCHITECT/ENGINEER. CORRECT DEFECTS OCCURRING DURING THIS PERIOD AT NO ADDITIONAL COST TO THE OWNER.

EQUIPMENT

MANUFACTURERS AND MODEL NUMBERS ARE LISTED FOR REFERENCE AS TO QUALITY AND FEATURES REQUIRED FOR THE CONTROL DEVICES. PROVIDE CONTROL DEVICES BY CARRIER, HONEYWELL, JOHNSON CONTROLS, TRANE OR WHITE RODGERS WITH QUALITY AND FEATURES AS INDICATED.

SEVEN DAY PROGRAMMABLE, OCCUPIED/UNOCCUPIED THERMOSTATS FOR CONTROL OF MULTIPLE STAGES OR MODULATION OF HEATING AND COOLING SYSTEMS AND FOR CONTROL OF ECONOMIZER SYSTEM SHALL BE HONEYWELL SERIES TH7000 OR EQUAL. PROVIDE REMOTE SENSOR WITH OVERRIDE BUTTON AND +/-3 DEGREE SETPOINT ADJUSTMENT AT REMOTE SENSOR. INSTALL THERMOSTATS AT 48" AFF TO MEET ADA REQUIREMENTS UNLESS OTHERWISE NOTED ON THE PLANS.

PROVIDE DAMPER OPERATOR FOR EACH AUTOMATIC DAMPER WITH SUFFICIENT CAPACITY TO OPERATE THE DAMPER UNDER ALL CONDITIONS AND TO GUARANTEE TIGHT CLOSE-OFF OF DAMPERS AGAINST SYSTEM PRESSURE ENCOUNTERED. EACH OPERATOR SHALL BE PROVIDED WITH SPRING-RETURN FOR NORMALLY CLOSED OR NORMALLY OPEN POSITION FOR FAIL SAFE OPERATION TO ACCOUNT FOR FIRE, LOW TEMPERATURES, OR POWER INTERRUPTION AS REQUIRED BY THE SEQUENCE OF OPERATION. DAMPER OPERATORS SHALL BE MANUFACTURED BY BELIMO, JOHNSON CONTROLS OR APPROVED EQUAL.

ROOFTOP UNIT CONTROL (FIXED DRY BULB ECONOMIZER)

DURING OCCUPIED HOURS, OPERATE ROOFTOP UNIT SUPPLY FAN CONTINUOUSLY AND OPEN OUTDOOR AIR DAMPER TO MINIMUM POSITION TO MAINTAIN MINIMUM VENTILATION. CYCLE STAGE(S) OF COOLING AND HEATING TO MAINTAIN ROOM THERMOSTAT SET POINT (75 DEGREES FAHRENHEIT COOLING, 72 DEGREES FAHRENHEIT HEATING). ENABLE DRY BULB TYPE OUTDOOR AIR ECONOMIZER FOR FIRST STAGE COOLING TO MAINTAIN DISCHARGE AIR TEMPERATURE SET POINT (55 DEGREES F, ADJUSTABLE) WHEN OUTDOOR AMBIENT TEMPERATURE REACHES 70 DEGREES FAHRENHEIT OR BELOW. RETURN THE ECONOMIZER TO MINIMUM POSITION WHEN AMBIENT TEMPERATURE IS ABOVE 70 DEGREES FAHRENHEIT OR WHEN DISCHARGE AIR TEMPERATURE DROPS BELOW 50 DEGREES FAHRENHEIT. SMOKE DETECTORS SHALL SHUTDOWN UNIT UPON ALARM.

DURING UNOCCUPIED HOURS, CYCLE THE ROOFTOP UNIT SUPPLY FAN AND COOLING OR HEATING SYSTEM TO MAINTAIN UNOCCUPIED SETBACK TEMPERATURE SET POINTS. OUTDOOR AIR DAMPER SHALL BE CLOSED DURING UNOCCUPIED HOURS.

REGISTRATION SEAL
SEAL 035265
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

REV	DATE	DESCRIPTION	BY
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TITLE:
MECHANICAL SCHEDULES

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
KAM
CHECKED BY:
ACR

SHEET NO.
M3.0

PLUMBING SYMBOLS

NOTE: THIS IS A MASTER LEGEND AND NOT ALL SYMBOLS, ETC. ARE NECESSARILY USED ON THE DRAWINGS.

ANNOTATION

- (1) PLUMBING PLAN NOTE CALLOUT
- (1) PLUMBING EQUIPMENT DESIGNATION. (CONTRACTOR FURNISHED AND INSTALLED). REFER TO PLUMBING FIXTURE SCHEDULES.
- [1] EQUIPMENT DESIGNATION (OWNER FURNISHED, CONTRACTOR INSTALLED)
- CU 1 MECHANICAL EQUIPMENT DESIGNATION (CONTRACTOR FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE)
- CONNECTION POINT OF NEW WORK TO EXISTING
- 1 / P1 DETAIL REFERENCE UPPER NUMBER INDICATES DETAIL NUMBER LOWER NUMBER INDICATES SHEET NUMBER

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MBH	1000 BTU PER HOUR
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BFG	BELOW FINISHED GRADE	ORD	OVERFLOW ROOF DRAIN
BOP	BOTTOM OF PIPE	PDI	PLUMBING DRAINAGE INSTITUTE
BOS	BOTTOM OF STRUCTURE	PVC	POLYVINYL CHLORIDE
BTU	BRITISH THERMAL UNIT	PRV	PRESSURE REDUCING VALVE
CPVC	CHLORINATED POLYVINYL CHLORIDE	RD	ROOF DRAIN
DN	DOWN	RPM	REVOLUTIONS PER MINUTE
DS	DOWNSPOUT	SF	SQUARE FEET, SUPPLY FAN
ETR	EXISTING TO REMAIN	SP	SUMP PUMP
FFA	FROM FLOOR ABOVE	TDH	TOTAL DYNAMIC HEAD
FFB	FROM FLOOR BELOW	TFA	TO FLOOR ABOVE
FF	FINISHED FLOOR	TFB	TO FLOOR BELOW
FLA	FULL LOAD AMPS	TYP	TYPICAL
FLR	FLOOR	UL	UNDERWRITERS LABORATORIES,INC.
GPM	GALLONS PER MINUTE	VS	VENT STACK
HD	HEAD, HUB DRAIN	VTR	VENT THROUGH ROOF
IE	INVERT ELEVATION	W/	WITH
IN WC	INCHES OF WATER COLUMN	W/O	WITHOUT
kW	KILOWATT	WC	WATER COLUMN
MAU	MAKE-UP AIR UNIT	WS	WASTE STACK

PIPING

- DOMESTIC COLD WATER (CW)
- SCW — SOFTENED COLD WATER (SCW)
- FW — FILTERED COLD WATER (FW)
- DOMESTIC HOT WATER (HW)
- DOMESTIC HOT WATER RECIRC. (HWR)
- 140° — 140° DOMESTIC HOT WATER (140°)
- T — TRAP PRIMER LINE (T)
- S — SOIL PIPING – ABOVE FLOOR (S)
- S — SOIL PIPING – BELOW FLOOR (S)
- W — WASTE PIPING – ABOVE FLOOR (W)
- W — WASTE PIPING – BELOW FLOOR (W)
- GW — GREASE WASTE – ABOVE FLOOR (GW)
- GW — GREASE WASTE – BELOW FLOOR (GW)
- ST — STORM DRAIN – ABOVE FLOOR (ST)
- ST — STORM DRAIN – BELOW FLOOR (ST)
- OST — OVERFLOW STORM DRAIN – ABOVE FLOOR (OST)
- VBG — VENT BELOW GRADE (VBG)
- VBF — VENT BELOW FLOOR (VBF)
- CD — CONDENSATE DRAIN (CD)
- SPD — SUMP OR SEWAGE PUMP DISCHARGE (SPD)
- G — NATURAL GAS (G)
- G — NATURAL GAS ON ROOF (G)
- MPG — MEDIUM PRESSURE NATURAL GAS (MPG)
- MPG — MEDIUM PRESSURE NATURAL GAS ON ROOF (MPG)
- LPG — LIQUIFIED PETROLEUM GAS (LPG)
- EXISTING PIPING TO BE REMOVED
- ETR — EXISTING PIPING TO REMAIN (ETR)
- V — VENT PIPING (V)
- BALL VALVE
- CONTROL VALVE
- SHUTOFF VALVE
- CHECK VALVE
- BALANCING VALVE WITH PRESSURE PORTS
- WATER METER
- STRAINER
- STRAINER WITH BLOWOFF
- RELIEF/SAFETY VALVE
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- GAS PRESSURE REGULATOR
- THERMOSTATIC MIXING VALVE
- BACKFLOW PREVENTER
- PRESSURE GAUGE
- THERMOMETER
- UNION
- FLANGE CONNECTION
- HOSE BIBB (HB)
- NONFREEZE WALL HYDRANT (NW)
- MANUAL/AUTOMATIC AIR VENT OR RELIEF VALVE
- CLEANOUT
- CAP
- WALL CLEANOUT (WCO)
- FLOOR CLEANOUT (FCO)
- EXTERIOR CLEANOUT (ECO)
- ELBOW UP
- ELBOW DOWN
- TEE UP
- TEE DOWN
- WATER HAMMER ARRESTER (WHA)
- RECIRCULATION PUMP
- P–TRAP
- GAS COCK
- TRAP PRIMER
- TRAP PRIMER WITH DISTRIBUTION UNIT

GENERAL PLUMBING NOTES:

A. DRAWINGS ARE DIAGRAMMATIC ONLY AND REPRESENT THE GENERAL SCOPE OF THE WORK. PRIOR TO SUBMITTING BID, VISIT THE JOB SITE TO OBSERVE THE EXISTING CONDITIONS OF THE PROJECT. REVIEW THE GENERAL NOTES, SPECIFICATIONS AND PLANS FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE SPECIFICALLY CALLED OUT IN THIS PORTION OF THE CONSTRUCTION DOCUMENTS. NOTIFY OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES PRIOR TO SUBMISSION OF BID.

B. PROVIDE A CONSTRUCTION RECORD SET OF "AS–BUILT" DOCUMENTS TO THE OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED PIPING LOCATIONS OR EQUIPMENT CONTRARY TO THE CONSTRUCTION DOCUMENTS, REFER TO SPECIFICATIONS.

C. PROVIDE TO THE OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS, REFER TO SPECIFICATIONS.

D. INSTALLATION SHALL COMPLY WITH LEGALLY CONSTITUTED CODES AND THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND ALSO MEET ALL REQUIREMENTS OF THE LANDLORD. OBTAIN A COPY OF THE LANDLORD'S REQUIREMENTS AND REVIEW PRIOR TO SUBMITTING BID.

E. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE REQUIREMENTS.

F. VERIFY LOCATION AND DEPTH OF UTILITIES AT POINTS OF CONNECTION BEFORE START OF PIPING INSTALLATION.

G. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.

H. DO NOT SCALE FLOOR PLANS FOR EXACT HORIZONTAL LOCATION OF PIPE ROUTING.

I. INSTALL CONCEALED PIPING TIGHT TO THE STRUCTURE AND AS HIGH AS POSSIBLE. INSTALL EXPOSED PIPING TIGHT TO THE STRUCTURE, WALL, OR CEILING AND AS HIGH AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS.

J. VALVES SHALL BE LINE SIZE UNLESS OTHERWISE NOTED.

K. PIPING IN FINISHED AREAS SHALL BE ROUTED CONCEALED; EXPOSED PIPING, WHERE NECESSARY, SHALL BE ROUTED AS HIGH AS POSSIBLE AND TIGHT TO WALLS.

L. COORDINATE ALL WORK WITH OTHER TRADES AND CONTRACTORS.

M. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTING, ETC. WHERE REQUIRED AND AS NOTED ON PLANS. COORDINATE SLEEVE INSTALLATIONS WITH THE ARCHITECT, STRUCTURAL ENGINEER, STRUCTURAL CONTRACTOR AND GENERAL CONTRACTOR BEFORE CONCRETE IS INSTALLED.

N. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.

O. PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.

P. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANELS.

Q. PAINT ALL EXPOSED GAS AND WATER PIPING USING RUST INHIBITOR PAINT. PAINT AND COLOR SHALL BE COORDINATED WITH THE ARCHITECT AND / OR OWNER.

R. COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN 10' MINIMUM CLEARANCE FROM ALL AIR INTAKES. MAINTAIN 2' CLEARANCE FROM ALL OTHER EQUIPMENT.

S. INSULATE PIPING ROUTED IN EXTERIOR BUILDING WALLS WITH MINIMUM 2" BATT INSULATION TO PREVENT FREEZING.

T. SEAL ALL PENETRATIONS THROUGH RATED WALLS AND CEILINGS.

U. EXAMINE THE CONTRACT DRAWINGS AND ALL AVAILABLE INFORMATION CONCERNING EXISTING INSTALLATION, STRUCTURE, AND LOCAL CONDITIONS. VISIT THE SITE TO UNDERSTAND THE NATURE AND SCOPE OF ALL WORK TO BE PERFORMED AND VERIFY EXISTING CONDITIONS. THE SUBMISSION OF A BID WILL BE TAKEN AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND THAT ALL EXISTING CONDITIONS HAVE BEEN CONSIDERED. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND THAT OF THESE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.

GREASE INTERCEPTOR CALCULATIONS

Quote: 6B115FEC

Reference No. 92405 — Project Name: Scooter's - Erwin, NC (2946)

Step 1: Flow rate to grease interceptor

Fixture flow rate: (cu in / 231) = gal x 0.75 / 2 min = 2 min flow rate

NAME	TYPE	DIMENSIONS	QTY	CU IN	FLOW RATE
#10 - 3 Comp	3 Compartment Sink	20" x 12" x 12" (3)	1	8,640	14.03 GPM
#24 - Mop Sink	Mop Basin	20" x 16" x 6"	1	1,920	3.12 GPM
#27 - Dipper Well	Dipper Well	N/A	1	N/A	2 GPM
#32A - Hand Sink	Hand Sink	10" x 14" x 9"	1	1,260	2.05 GPM
#33 - Dump Sink (1 bowl)	Dump Sink One Bowl	10" x 14" x 6"	1	840	1.36 GPM
Floor Drain	Floor Drain	N/A	3	N/A	0 GPM
Total					**22.55 GPM**

Step 2: Grease Production

Servings per day x Grease production value x Days between pump-outs = Grease output

Servings per day: 250
Grease production value: 0.005 lbs per serving (Coffee Shop: Low / No flatware)
Days between pump-outs: 90 days

250 x 0.005 x 90 = 112.5 lbs of FOG

SCHIER MODEL	
GB2	**Description:** GREASE INTERCEPTOR 35 GPM, 4" FPT CONNECTIONS W/ 3" PLAIN END ADAPTERS, PEDESTRIAN RATED POLYPROPYLENE COVER **Dimensions:** Length: 35", Width: 23", Height: 13.75" **Flow Rate/Grease Capacity:** 35 GPM / 119 lbs **Liquid Capacity:** 20 gal

PLUMBING FIXTURE SCHEDULE:

FIXTURES IN THIS SCHEDULE OR THEIR APPROVED EQUIVALENT ARE PROVIDED BY THE PLUMBING CONTRACTOR. SUBMIT SHOP DRAWINGS ON EACH OF THESE ITEMS. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION AND INSTALLATION REQUIREMENTS. VERIFY ROUGH–IN REQUIREMENTS WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE PLUMBING FIXTURE MOUNTING HEIGHTS.

(BFP) DOUBLE CHECK VALVE BACKFLOW PREVENTER: WATTS #719QT–S, CAST BRONZE BODY, QUARTER TURN TEST COCKS, QUARTER TURN BALL VALVES, BRONZE STRAINER, AND #909AG AIR GAP FITTING.

(ECO) EXTERIOR CLEANOUT: ZURN Z1474–N SERIES DUCO CAST IRON DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND CLEANOUT BODY WITH ABS PLASTIC PLUG WITH GASKET SEAL AND PUSH–ON JOINT. REFER TO SPECIFICATIONS FOR INSTALLATION.

(ET) EXPANSION TANK: AMTROL "THERM–X–TROL" # ST–5, WELDED STEEL PRESSURE TANK, POLYPROPYLENE LINING, FLEXIBLE BUTYL DIAPHRAGM, AIR CHARGING VALVE, 150 PSI MAXIMUM WORKING PRESSURE, 2.0 GALLON CAPACITY, 0.45 MAXIMUM ACCEPTANCE FACTOR, 3/4" PIPE CONNECTION. SET THE AIR CHARGE PRESSURE TO MATCH EXISTING WATER SYSTEM PRESSURE.

(FCO) FLOOR CLEANOUT: ZURN C02450–AB3 ADJUSTABLE FLOOR CLEANOUT, 3 INCH ABS HUB CONNECTION, 4" SIZE AVAILABLE. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

(FD) FLOOR DRAIN: ZURN # FD2210, PVC OR ABS BODY, ADJUSTABLE NICKEL BRONZE HEAD AND SECURED GRATE.

(FS) FLOOR SINK: SIOUX CHIEF 861, PVC BODY WITH SCH 40 HUB CONNECTION, PVC STRAINER.

(GT) GREASE TRAP: SCHIER GB2, 4" PLAIN END INLET/OUTLET, 35/50 GPM, 130.5/127.6 LBS GREASE, 20 GALLON LIQUID CAPACITY, 450 LB LOAD RATED COVER, 1,000 LB WHEN UNIT IS BURIED WITH FCR1 RISER, BUILT–IN FLOW CONTROL, VENT NOT REQUIRED, INTEGRAL AIR RELIEF/ANTI–SIPHON.

(HB) HOSE BIBB: PRIER PRODUCTS # C–244, ANTI–FREEZING, ANTI–SIPHON VACUUM BREAKER, POWDER COATED CAST ALUMINUM HANDLE, INTEGRAL BACKFLOW CHECK VALVE, VANDAL PROOF EXTENDED LOCKSHIELD AND OPERATING KEY, SOLID BRASS BODY, AVAILABLE VARIOUS 1/2" & 3/4" INLET STYLES.

(LV) WALL MOUNTED LAVATORY (ADA ACCESSIBLE): TOTO MODEL #LT307 21" x 18–1/4" RECTANGULAR WALL MOUNTED WHITE VITREOUS CHINA FIXTURE WITH FAUCET LEDGE AND FRONT OVERFLOW. SINGLE HOLE.
FAUCET: CHICAGO FAUCET #802–VE2805XKCP 4" CENTERSET VANDAL RESISTANT, FAUCET WITH #390 LEVER HANDLES, CERAMIC QUARTER TURN CARTRIDGES AND #E2805 0.5 GPM AERATOR.
TRIM: McGUIRE #155A GRID DRAIN WITH TAILPIECE, McGUIRE #2165CCLK LOOSE KEY COMPRESSION ANGLE STOP VALVES WITH RISERS AND ESCUTCHEONS, McGUIRE #8887ZCF 1–1/4" 17 GAUGE CAST CHROME PLATED BRASS ADJUSTABLE P–TRAP AND WASTE ARM WITH CLEANOUT PLUG AND ESCUTCHEON, CONCEALED ARM CARRIER WITH STANCHIONS TO FLOOR, AND PLUMBEREX "PRO–EXTREME" #X–4222 INSULATION KIT FOR WATER AND WASTE PIPES.

(MS) MOP SINK: STERN–WILLIAMS # MTB–2424, 24" X 24" X 10" HIGH TERRAZZO BASIN WITH INTEGRAL STAINLESS STEEL DRAIN BODY.
FAUCET: CHICAGO FAUCET # 897–CP FAUCET WITH WALL BRACE, INTEGRAL VACUUM BREAKER, PAIL HOOK, AND 3/4" MALE HOSE THREADED OUTLET. SECURE FAUCET IN WALL WITH BACKBOARD.
TRIM: # BP TYPE 304, 20 GAUGE, STAINLESS STEEL WALL SURROUNDS, # T–35 THREE FOOT LONG REINFORCED HOSE WITH 3/4" CHROME COUPLING AND WALL HOOK, # V–70 EXTRUDED VINYL BUMPER GUARD, AND # T–40 24" STAINLESS STEEL MOP HANGER.

(RPZ) REDUCED PRESSURE ZONE BACKFLOW PREVENTER: WATTS # LF009QT–S, LEAD FREE CAST BRONZE BODY, QUARTER TURN TEST COCKS, QUARTER TURN BALL VALVES, BRONZE STRAINER, AND # 909AG AIR GAP FITTING.

(TMV) THERMOSTATIC MIXING VALVE: ZURN WILKINS ZW1070XL SOLID LEAD FREE BRASS BODY, THERMOSTATIC WAX ELEMENT, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1070 COMPLIANT, CAPABLE OF 2.2 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. SET TEMPERATURE TO 110F FOR DUAL TEMPERATURE LAVATORIES AND HAND SINKS, 100F FOR SINGLE TEMPERATURE LAVATORIES AND HAND SINKS AND 120F FOR SINKS. MOUNT BELOW THE PLUMBING FIXTURE WHERE INDICATED ON PLAN(S).

(TS) TRAP SEAL: ProSet SYSTEMS "TRAP GUARD" INSERT FOR ACTUAL FLOOR DRAIN MODEL AND SIZE PROVIDED, FLEXIBLE ELASTOMERIC PVC MATERIAL MOLDED INTO SHAPE OF DUCK'S BILL, OPEN ON TOP WITH CURL CLOSURE AT BOTTOM. ALLOWS WASTEWATER TO OPEN AND ADEQUATELY DISCHARGE FLOOR DRAIN THROUGH ITS INTERIOR. CLOSES AND RETURNS TO ORIGINAL MOLDED SHAPE AFTER WASTEWATER DISCHARGE IS COMPLETE.

(WC) WATER CLOSET: AMERICAN STANDARD #2898.012 "CADET" TANK TYPE WHITE VITREOUS CHINA FIXTURE WITH ELONGATED BOWL, 1.6 GALLON PER FLUSH, AND SIPHON FLUSH ACTION AND CLOSE–COUPLED TANK WITH LEFT HAND TRIP LEVER.
TRIM: CHURCH #9500SSC WHITE OPEN–FRONT CONTOURED, SOLID PLASTIC, HEAVY DUTY, SEAT LESS COVER WITH SELF–SUSTAINING CHECK HINGES AND STAINLESS STEEL BOLTS, McGUIRE #2166CC ANGLE STOP VALVE WITH RISER AND CHROME–PLATED ESCUTCHEON.

(WCO) WALL CLEANOUT: SIOUX CHIEF #873 SERIES, BRASS COUNTERSUNK PLUG, 20 GAUGE STAINLESS STEEL COVER AND SCREW. CLEANOUT TEE TO BE PROVIDED SEPARATELY. REFER TO SPECIFICATIONS FOR INSTALLATION.

(WHA) WATER HAMMER ARRESTER: PRECISION PLUMBING PRODUCTS, HARD DRAWN COPPER BODY WITH WROUGHT COPPER FITTINGS, PISTON TYPE WITH LUBRICATED EPDM "O" RING SEALS, MEETING ASSE 1010 OR PDI WH–201. PROVIDE PDI SIZES "A" THROUGH "F" AS SHOWN ON PLANS. PROVIDE SIZE "A" UNLESS SHOWN OTHERWISE ON THE PLANS.

(TV) TEMPERING VALVE: WATTS # LFLM492–101, LEAD FREE BRASS BODY ADVANCES THERMAL ACTUATOR, CORROSION RESISTANT INTERNAL PARTS, AND INTEGRAL CHECKS, ASSE 1017 COMPLIANT, CAPABLE OF 15 GPM WITH A 20 PSI DIFFERENTIAL AND A MINIMUM FLOW RATE OF 0.5 GPM. SET TEMPERATURE TO 60F FOR RO SYSTEM WHERE NEEDED PER DETAIL 12/P3.0.

WATER CALCULATIONS

TOTAL WATER SUPPLY FIXTURE UNITS	30.5
WATER GPM	20.0
PREDOMINANT WATER CLOSET FIXTURE TYPE	FLUSH TANK
PIPE SIZE (IN.)	1-1/4"
PIPING DEVELOPED LENGTH W/ 25% FOR FITTINGS (FT)	170
PRESSURE AT WATER METER (PSI)	65
1.00" METER LOSS INCLUDING TAP (PSI)	-2.2
1.00" BACKFLOW PREVENTER LOSS (PSI)	-14.0
HIGHEST FIXTURE ELEVATION (FT)	10
STATIC PRESSURE LOSS TO HIGHEST FIXTURE (H x 0.434)	-4.3
PRESSURE REQUIRED AT MOST REMOTE FIXTURE (PSI)	-20.0
TOTAL PRESSURE AVAILABLE FOR FRICTION LOSS	24.5
ALLOWABLE FRICTION FACTOR (24.46 PSI / 170 FT) x 100	14.4
USE 14 PSI PER 100 FEET PRESSURE DROP CHART	

FIXTURE BRANCH CONNECTION SCHEDULE

FIXTURE TYPE	COLD WATER	HOT WATER	WASTE	VENT
WATER CLOSET (TANK)	3/4"	–	4"	2"
LAVATORY	1/2"	1/2"	2"	2"
MOP SINK	1/2"	1/2"	3"	2"
FLOOR SINK	–	–	3"	2"
FLOOR DRAIN	–	–	2"	2"
HOSE BIB/ ROOF HYDRANT	3/4"	–	–	–

NOTE:
PIPE SIZES SHOWN ARE MINIMUM.

PLUMBING PIPE MATERIAL SCHEDULE

PIPING SYSTEM	ABBREVIATION	PIPING MATERIAL
SANITARY DRAINAGE & VENT (ABOVE GRADE)	S, W, GW OR V	HUBLESS CAST IRON (PVC DWV OPTIONAL)
SANITARY DRAINAGE & VENT (BELOW GRADE)	S, W, GW OR V	SERVICE WEIGHT CAST IRON (PVC DWV OPTIONAL)
POTABLE WATER (ABOVE GRADE)	CW, HW OR HWR	TYPE L HARD DRAWN COPPER (PEX TUBING UP TO 2" OPTIONAL)
POTABLE WATER - 2" & SMALLER (BELOW GRADE)	CW, HW OR HWR	TYPE K SOFT ANNEALED COPPER (CPVC SCHEDULE 80 OPTIONAL)
NATURAL GAS (ABOVE GRADE & ON ROOF)	G	SCHEDULE 40 BLACK STEEL
NATURAL GAS (BELOW GRADE)	G	APPROVED 'PE' PIPE FOR GAS
CONDENSATE DRAIN - 1" & SMALLER	CD	TYPE M HARD DRAWN COPPER (PVC DWV OPTIONAL)
INDIRECT DRAIN - 1-1/4" & LARGER	ID	TYPE DWV HARD DRAWN COPPER
REVERSE OSMOSIS	RO	WHITE PEX

REFER TO SPECIFICATIONS FOR FITTINGS, INSTALLATION REQUIREMENTS AND FURTHER INFORMATION. PIPING MATERIALS WITHIN AIR PLENUMS SHALL BE NONCOMBUSTIBLE OR SHALL 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 E84 OR UL 723. A PLENUM IS AN ENCLOSED PORTION OF THE BUILDING STRUCTURE, OTHER THAN AN OCCUPIABLE SPACE BEING CONDITIONED, THAT IS DESIGNED TO ALLOW AIR MOVEMENT.

RECIRCULATION PUMP SCHEDULE (IF REQUIRED)

MARK	MANUFACTURER / MODEL#	SERVICE	GPM	HEAD (FT.)	SUCTION & DISCHARGE SIZE	IMPELLER SIZE (IN.)	ELECTRICAL DATA VOLTS	PHASE	FLA	NOTES
RP-1	BELL & GOSSETT # NBF-9U/LW	WH-1	2	7.0	SEE PLAN	N/A	120	1	0.40	A-D

NOTES:
A. ALL BRONZE BOOSTER.
B. PROVIDE WITH STRAINER UPSTREAM OF PUMP.
C. PROVIDE ADJUSTABLE, SURFACE MOUNTED AQUASTAT - HONEYWELL L6006C OR EQUIVALENT.
D. SET AQUASTAT TO SHUT OFF RECIRCULATION PUMP AT WATER HEATER SET POINT AND ON AT 10F BELOW SET POINT.

ELECTRIC WATER HEATER SCHEDULE

MARK	MANUFACTURER/ MODEL#	AREA SERVED	ENERGY SOURCE	TANK SIZE (GALLONS)	ELECTRICAL DATA VOLTS	PHASE	KW	RECOVERY RATE (GPH)	NOTES
WH-1	STATE CSB 52 9 IFE	KITCHEN/ LAVS	ELECTRIC	50	208	1	9.0	47	A,D

NOTES:
A. 80°F TEMPERATURE RISE WITH 140°F OPERATING TEMPERATURE.
D. TRIPLE ELEMENT WIRED FOR SIMULTANEOUS OPERATION

KITCHEN FIXTURE CONNECTION SCHEDULE

TAG #	FIXTURE/EQUIPMENT	HOT WATER (IN.)	COLD WATER (IN.)	WASTE INDIRECT	WASTE DIRECT	GAS	NOTES
2A	ICE MAKER		1/2"	3/4"			FILTERED WATER SYSTEM, BFP, DRAIN TO FS
2B	ICE STORAGE BIN			3/4"			DRAIN TO FS
6	COFFEE MAKER		1/2"				FILTERED WATER SYSTEM, BFP
9	ESPRESSO MACHINE		1/2"	3/4"			FILTERED WATER SYSTEM, BFP, DRAIN TO FS
10	3-COMPARTMENT SINK	3/4"	3/4"	3"			DRAIN TO FS
17	MOBILE ICE STORAGE BIN			3/4"			DRAIN TO FS
18	DECK MOUNT SINGLE FAUCET	1/2"					
21B	PITCHER RINSER SINK	1/2"	1/2"	2"			DRAIN TO FS
21C	HAND SINK	1/2"	1/2"		2"		
22A	WATER TREATMENT SYSTEM		1/2"	1/4"			FILTERED WATER SYSTEM, RPZ, DRAIN TO FD
23A	WATER SOFTENER		1"				
27	DIPPER WELL		1/2"	1-1/2"			DRAIN TO FS
28	CUP RINSER		1/2"	3/4"			DRAIN TO FS
32	HAND SINK	1/2"	1/2"		2"		

IPC WATER & WASTE FIXTURE UNITS

FIXTURE TYPE	QTY	D.F.U. (EA)	TOTAL D.F.U.	HOT S.F.U. (EA)	COLD S.F.U. (EA)	COMBINED S.F.U. (EA)	TOTAL S.F.U. (HOT)	TOTAL S.F.U. (COLD)	TOTAL SERVICE S.F.U.
PUBLIC LAVATORY	1	2.0	2.0	1.50	1.50	2.00	1.5	1.5	2.0
SERVICE SINK (MOP BASIN)	1	3.0	3.0	2.25	2.25	3.00	2.25	2.25	3.0
FLOOR DRAIN (2"DW)	3	2.0	6.0	0.00	0.00	0.00	0	0	0.0
FIRST WALL OR ROOF HYDRANT	1	0.0	0.0	0.00	5.00	5.00	0	5	5.0
EACH ADDITIONAL WALL OR ROOF HYDRANT	1	0.0	0.0	0.00	1.00	1.00	0	1	1.0
PUBLIC WATER CLOSET (1.28 GPF FLUSH TANK)	1	4.0	4.0	0.00	5.00	5.00	0	5	5.0
SPECIALTY KITCHEN EQUIP.									
SINK (DUMP)	1	2.0	2.0	1.50	1.50	2.00	1.5	1.5	2.0
SINK (HAND)	2	2.0	4.0	1.50	1.50	2.00	3	3	4.0
SINK (3 COMPARTMENT)	1	3.0	3.0	3.00	3.00	4.00	3	3	4.0
ICE MACHINE (3/4" IW)	1	0.5	0.5	0.00	1.00	1.00	0	1	1.0
ESPRESSO MACHINE (3/4" IW)	3	0.5	1.5	0.00	0.50	0.50	0	1.5	1.5
COFFEE MAKER	1	0.0	0.0	0.00	0.50	0.50	0	0.5	0.5
DIPPER WELL (3/4" IW)	2	0.5	1.0	0.00	0.75	0.75	0	1.5	1.5
TOTAL UNITS:	19		27.0				11.3	26.8	30.5

WATER PIPE SIZING CHART

FIXTURE UNITS VS. PRESSURE LOSS
IN PSI / 100 FEET WITH Copper Type L PIPING MATERIAL

	COLD WATER @ 14 PSI / 100'				HOT WATER @ 14 PSI / 100'		
PIPE SIZE	FLUSH TANK SFU (CW)	FLUSH VALVE SFU (CW)	VELOCITY FEET / SEC	FLOW GPM	FLUSH TANK SFU (HW)	VELOCITY FEET / SEC	FLOW GPM
1/2"	5.5	N/A	6.6	4.8	3.6	5.0	3.6
3/4"	16.1	N/A	8.0	12.1	9.1	5.0	7.5
1"	31.2	N/A	8.0	20.6	17.7	5.0	12.9
1-1/4"	56.7	14.3	8.0	31.3	29.2	5.0	19.6

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 — ST. LOUIS, MO 63146
PH. (314) 415-2400 — FAX (314) 415-2300 — www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/06/26	HEALTH COMMENTS	SW
2			
3			
4			
5			
6			
7			
8			
9			

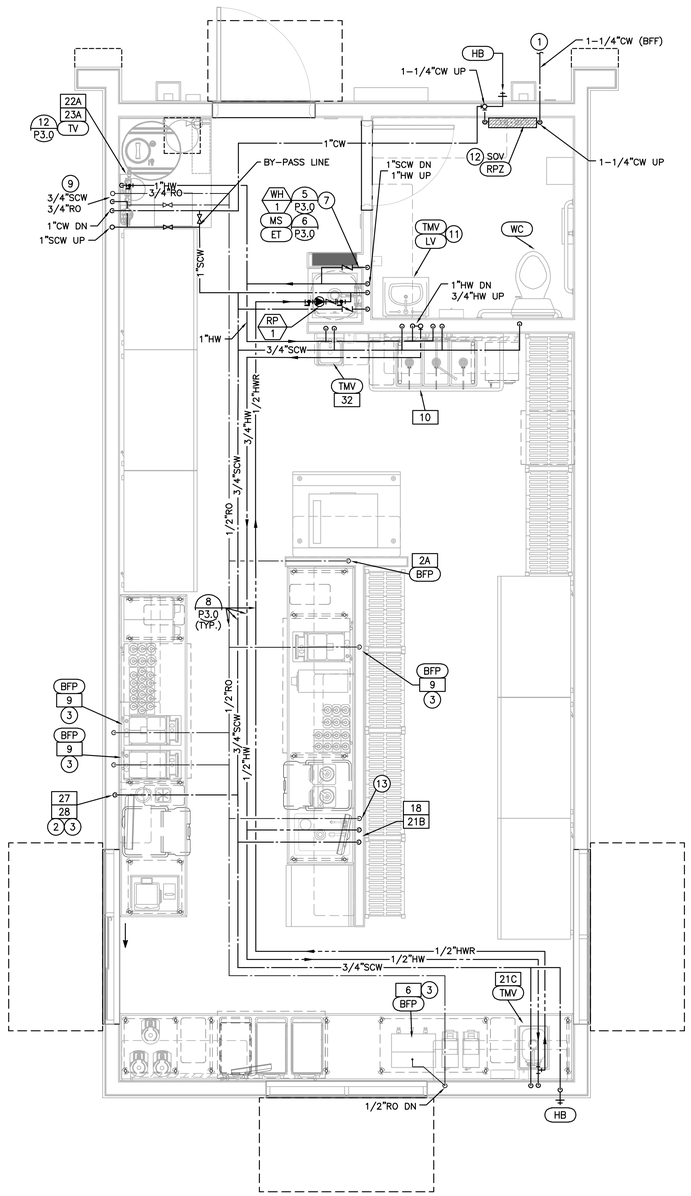
TITLE:
PLUMBING SCHEDULES

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

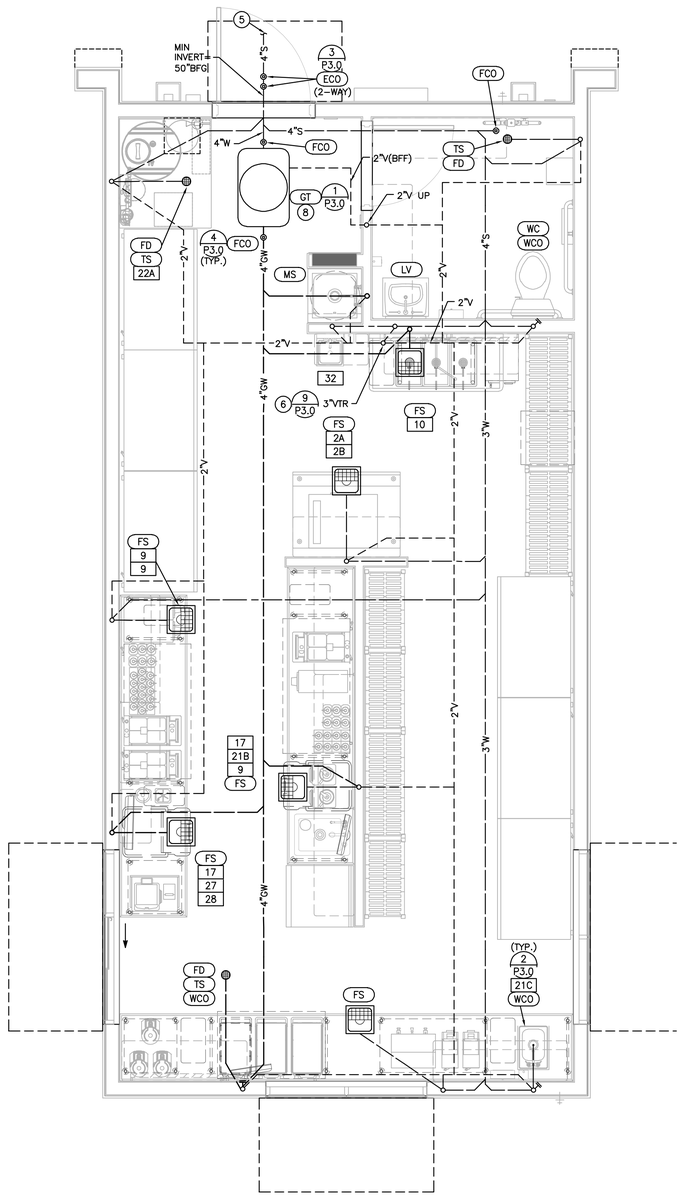
FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
CDH
CHECKED BY:
ACR

SHEET NO.
P0.1



1 WATER & GAS FLOOR PLAN
SCALE: 3/8"=1'-0"



2 SANITARY & VENT FLOOR PLAN
SCALE: 3/8"=1'-0"

PLUMBING PLAN NOTES:

1. SEE CIVIL DRAWINGS FOR CONTINUATION OF WATER SUPPLY. CONTRACTOR TO VERIFY LOCATION PRIOR TO INSTALLATION.
2. 1/2" SOFTENED COLD WATER DOWN IN WALL FOR 1/2" COLD WATER CONNECTION TO DIPPER WELL (27) AND RINSE SINK (28).
3. PROVIDE 1/2" SHUT-OFF VALVE, FINAL CONNECTION TO MACHINE MADE BY OTHERS.
4. NOT USED.
5. SEE CIVIL DRAWINGS FOR CONTINUATION OF SANITARY SEWER LINE. VERIFY EXACT SIZE AND LOCATION PRIOR TO INSTALLATION.
6. ROUTE 3" VENT FROM TOP OF WASTE LINE UP THROUGH WALL.
7. ELECTRIC TANK TYPE WATER HEATER ABOVE MOP SINK. ROUTE COLD WATER LINE TO WATER HEATER, AND HOT WATER LINE TO PLUMBING FIXTURES. CONNECT HOT WATER RETURN LINE TO WATER HEATER COLD LINE FROM RECIRCULATION PUMP.
8. NEW 35 GPM GREASE TRAP BELOW FINISHED FLOOR. COORDINATE EXACT LOCATION WITH OWNER AND WITH LOCATION OF EXISTING SANITARY PIPING.
9. REFER TO MANUFACTURER SPECIFICATION AND INSTALLATION MANUAL FOR ROUTING OF RO WATER SYSTEM.
10. NOT USED.
11. HOT WATER SERVING PUBLIC LAVS MAY NOT EXCEED 2'-0" IN LENGTH BETWEEN HOT WATER MAIN LINE AND PLUMBING FIXTURE. TO COMPLY W/IECC C404.5.1., ROUTE MAIN LINE DOWN IN WALL, AND TAP 1/2" HOT WATER LINE TO LAVATORY FAUCET. LOOP HOT WATER LINE BACK UP AND CONTINUE ROUTING TO OTHER PLUMBING FIXTURES SHOWN ON PLAN.
12. ROUTE AND DISCHARGE RPZ RELIEF PIPE TO EXTERIOR GRADE.
13. PROVIDE RO WATER TO THE DECK MOUNTED SINGLE FAUCET AT THE PITCHER RINSER SINK TO REPLACE THE WATER STATION FUNCTION. THE FAUCET IS TO HAVE A 'T' ADAPTER, TO ALLOW FOR SWITCHING BETWEEN RO AND JUST SOFTENED WATER.

REGISTRATION SEAL

NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM

4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcr.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:
PLUMBING FLOOR PLANS

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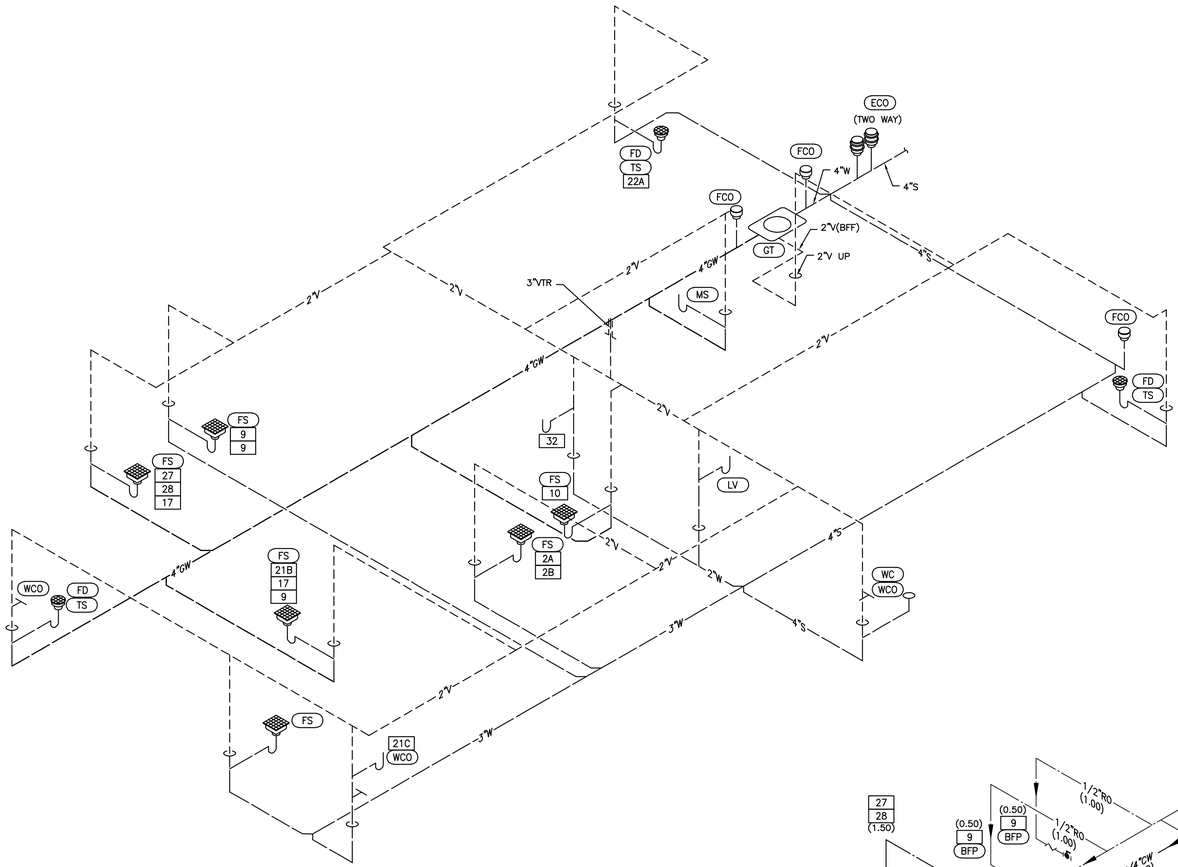
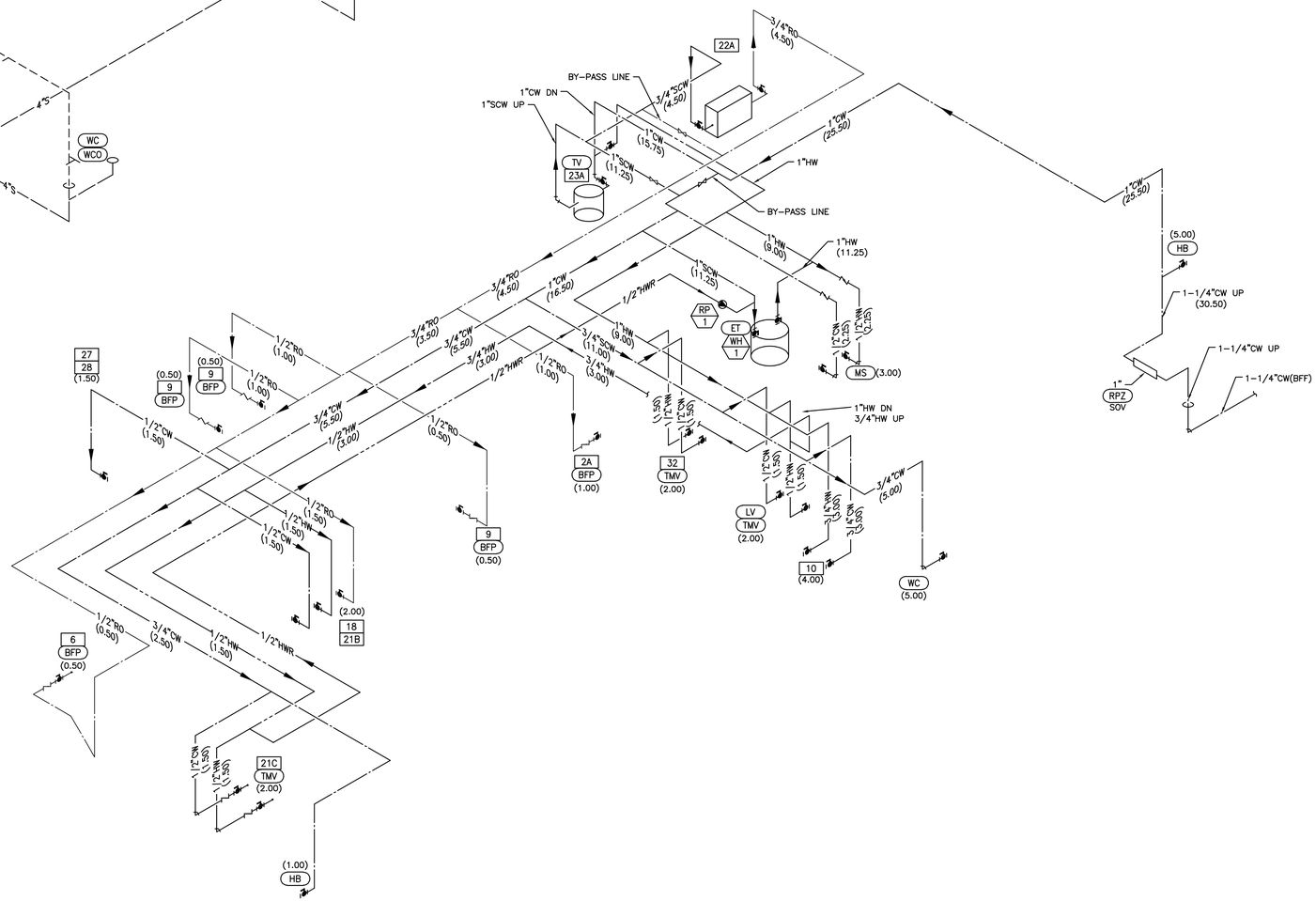


1 SANITARY & VENT RISER DIAGRAM
SCALE: NONE



2 WATER RISER DIAGRAM
SCALE: NONE

REGISTRATION SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
035265
ENGINEER
ROBERT L. QUEATHEM

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PLUMBING RISER DIAGRAMS

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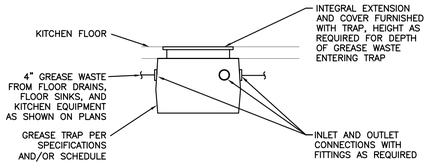
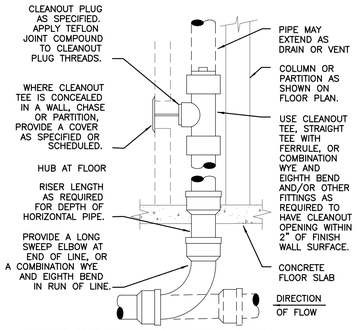


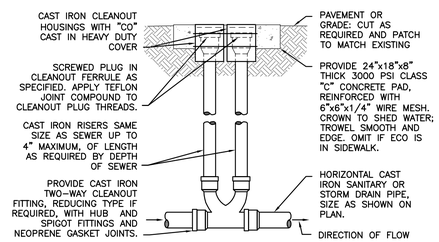
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. LOCATE GREASE TRAP WHERE SHOWN ON PLAN IF POSSIBLE, OTHERWISE NOT WHERE PEOPLE STAND BUT WHERE COVER CAN BE EASILY REMOVED (FOR CLEANING). DETAIL IS FOR SLAB ON GRADE INSTALLATION; IF FLOOR SLAB IS NOT ON GRADE, COORDINATE INSTALLATION WITH STRUCTURE. REFER TO STRUCTURAL DRAWINGS. PROVIDE SUPPORTS HUNG FROM SLAB PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE ANCHOR FLANGE WITH FLASHING CLAMP FOR SEALING WATER PROOF FLOOR MEMBRANE. REFER TO ARCHITECTURAL DRAWINGS.

1 GREASE TRAP INSTALLATION
NO SCALE



REFER TO SPECIFICATIONS AND SCHEDULES FOR MORE INFORMATION. PROVIDE WCO AT BASE OF RAIN-LEADER DOWNSPOUTS AND SOIL STACKS. PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES LONGER THAN FIVE FEET NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN FOUR FEET OF FLOOR. CONSULT LOCAL CODES AND OFFICIALS FOR OTHER WCO REQUIREMENTS.

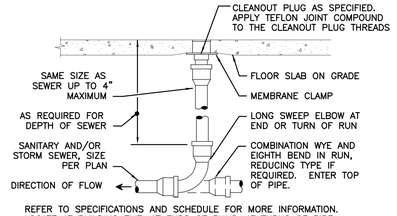
2 WALL CLEANOUT
NO SCALE



LOCATE EXTERIOR TWO-WAY CLEANOUT AT EXIT OF BUILDING DRAINS AND WHERE SHOWN ON PLAN. VERIFY SOIL/ROCK CONDITIONS WITH GEOTECHNICAL REPORT OR SITE EXAMINATION. PROVIDE EARTH BACKFILL AND COMPACTION PER ARCHITECTURAL SPECIFICATIONS. REFER TO SPECIFICATIONS AND SCHEDULES FOR MORE INFORMATION.

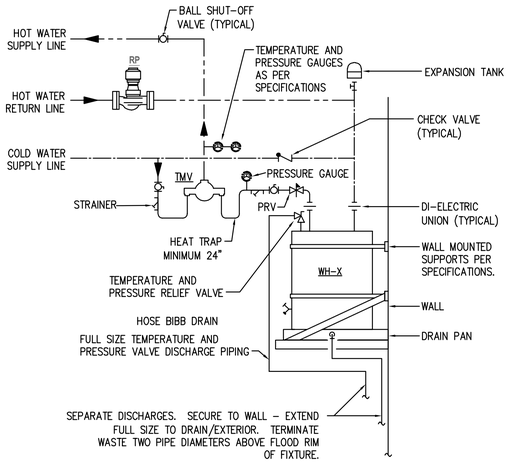
3 EXTERIOR TWO-WAY CLEANOUT
NO SCALE

PROVIDE CLEANOUT WITH ADJUSTABLE CLEANOUT TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKER, RECESSED FOR TILE, SCORIATED FOR UNFINISHED FLOORS). CLEAN THE TOP OF EXPOSED FCO AFTER INSTALLATION.



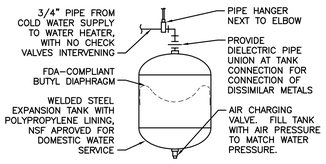
REFER TO SPECIFICATIONS AND SCHEDULE FOR MORE INFORMATION. LOCATE AT BUILDING EXIT, AT ENDS OF RUNS, AT TURNS OF PIPE GREATER THAN 45°, AT 50' INTERVALS ON STRAIGHT RUNS, AND/OR WHERE SHOWN ON PLANS AND RISERS. PROVIDE BACKFILL PER ARCHITECTURAL SPECIFICATIONS. LOCATE CLEANOUT WHERE THERE IS 18" CLEAR AROUND, FOR ACCESSIBILITY. CONSULT LOCAL CODES AND OFFICIALS FOR OTHER REQUIREMENTS.

4 FLOOR CLEANOUT
NO SCALE



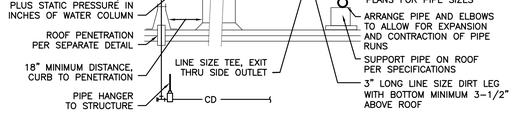
NOTES:
1. REFER TO PLUMBING SCHEDULE SHEET AND PLUMBING FLOOR PLANS FOR SIZING.
2. REFER TO MANUFACTURER FOR ADDITIONAL REQUIREMENTS.
3. REFER TO IN-LINE CIRCULATION PUMP DETAIL FOR ALL VALVE, STRAINER, AND GAUGE REQUIREMENTS.
4. PRESSURE REDUCING VALVE (PRV) ON THE OUTLET OF WATER HEATER SHALL BE SET AT 25 PSI.

5 WATER HEATER SCHEMATIC
NO SCALE



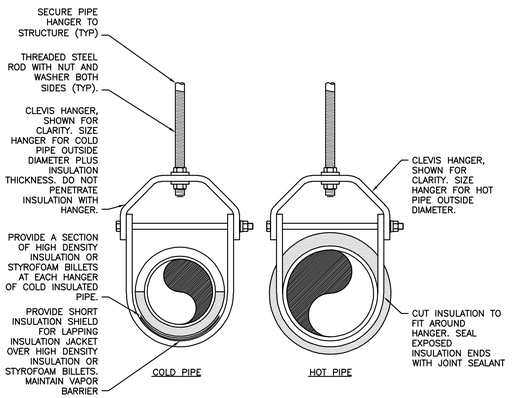
PIPING ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR INSTALLATION PROCEDURE. VERIFY PROPER OPERATION WHEN INSTALLED. PROVIDE SEISMIC STRAP OR BRACING WHEN REQUIRED BY LOCAL AUTHORITIES.

6 SMALL EXPANSION TANK
NO SCALE



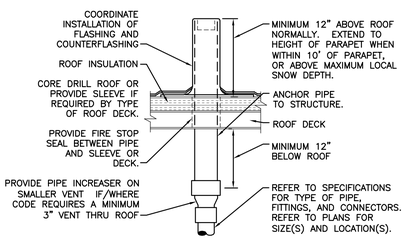
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT FIELD CONDITIONS. PROVIDE CONNECTIONS SHOWN IN EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS. VERIFY CONNECTION LOCATIONS BEFORE INSTALLING PIPE RUNS. REFER TO SPECIFICATIONS FOR PIPE AND FITTING MATERIALS AND INSTALLATION. PROVIDE DIELECTRIC UNION IF CONNECTING DISSIMILAR METALS. FOR PIPE SIZE(S) REFER TO FLOOR PLANS, OR CODE REQUIREMENTS FOR HVAC UNIT TONNAGE. PROVIDE GAS COCK, UNION AND DIRT LEG SAME SIZE AS BRANCH PIPE. SLOPE CONDENSATE PIPE AS MUCH AS POSSIBLE TOWARD DISCHARGE, 2% MINIMUM. PROVIDE CLEANOUTS IN ENDS AND TURNS OF PIPE PER LOCAL CODE REQUIREMENTS. ADAPTER WITH THREADED CLEANOUT PLUG. OMIT CONDENSATE DRAIN ON MAKEUP AIR UNIT. PROVIDE MINIMUM 6" CLEARANCE TO ROOF UNDER PIPES.

7 CONNECTIONS TO ROOF-TOP UNIT
NO SCALE



REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO SRUCTURE AND HANGER SPACING.

8 INSULATED PIPE HANGER DETAIL
NO SCALE

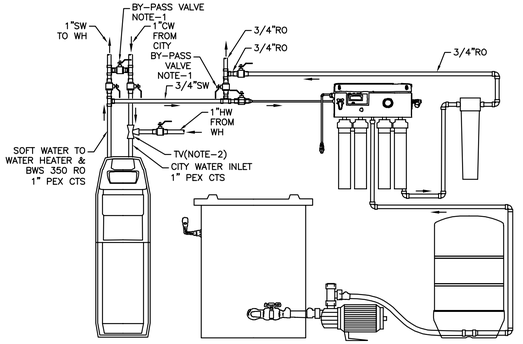


LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, TWENTY FIVE FEET FROM ANY OPENING OR FRESH AIR INTAKE IN MEDICAL FACILITIES AND ONE FOOT FROM ANY VERTICAL SURFACE. REFER TO LOCAL CODES FOR OTHER VENT TERMINATION REQUIREMENTS. LOCATE VTR MINIMUM 18" FROM ADJACENT WALL, PARAPET, EXPANSION JOINT, ROOF DRAIN, EQUIPMENT CURB, OR OTHER ROOF FEATURE. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS. INSULATE LAST SIX FEET OF VENT PIPE INSIDE BUILDING PER SPECIFICATIONS.

9 VENT THRU ROOF ("VTR")
NO SCALE

10 NOT USED
NO SCALE

11 NOT USED
NO SCALE



NOTES
1: PLUMBER TO INSTALL AND PROVIDE 3-VALVE BYPASS SYSTEM"
2: TEMPERING VALVE UPSTREAM OF THE THE WATER SOFTENER AND R.O. TO BE ADDED FOR STORES IN THE NORTHERN PORTION OF THE US. (NORTH OF THE 37TH PARALLEL). THIS WOULD BE UPLINE FROM THE WATER SOFTENER AND R.O.

12 REVERSE OSMOSIS AND SOFTENED WATER SYSTEM
NO SCALE

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
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PLUMBING SPECIFICATIONS

GENERAL REQUIREMENTS

REQUIREMENTS UNDER DIVISION ONE AND THE GENERAL AND SUPPLEMENTARY CONDITIONS OF THESE SPECIFICATIONS SHALL BE A PART OF THIS SECTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO BECOME THOROUGHLY ACQUAINTED WITH ITS CONTENTS AS TO REQUIREMENTS THAT AFFECT THIS DIVISION OR SECTION. WORK REQUIRED UNDER THIS SECTION INCLUDES MATERIAL, EQUIPMENT, APPLIANCES, TRANSPORTATION, SERVICES AND LABOR REQUIRED TO COMPLETE THE ENTIRE PLUMBING SYSTEM AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS.

THE SPECIFICATIONS AND THE DRAWINGS ARE COMPLEMENTARY, AND ANY PORTION OF WORK DESCRIBED IN ONE SHALL BE PROVIDED AS IF DESCRIBED IN BOTH. IN THE EVENT OF DISCREPANCIES ON THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SAME PRIOR TO PROCEEDING WITH THE WORK INVOLVED, IN ORDER THAT CORRECT PROGRESS OF THE WORK MAY BE PERFORMED.

DEFINITIONS

FURNISH: "TO SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION AND SIMILAR OPERATIONS."

INSTALL: "TO PERFORM ALL OPERATIONS AT THE PROJECT SITE INCLUDING, BUT NOT LIMITED TO, THE ACTUAL UNLOADING, UNPACKING, ASSEMBLING, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, TESTING, COMMISSIONING, STARTING UP AND SIMILAR OPERATIONS, COMPLETE, AND READY FOR THE INTENDED USE."

PROVIDE: "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

FURNISHED BY OWNER OR FURNISHED BY OTHERS: "AN ITEM FURNISHED BY THE OWNER OR UNDER OTHER DIVISIONS OR CONTRACTS, AND INSTALLED UNDER THE REQUIREMENTS OF THIS DIVISION, COMPLETE, AND READY FOR THE INTENDED USE, INCLUDING ALL ITEMS AND SERVICES INCIDENTAL TO THE WORK NECESSARY FOR PROPER INSTALLATION AND OPERATION. INCLUDE THE INSTALLATION UNDER THE WARRANTY REQUIRED BY THIS DIVISION."

AHJ: THE LOCAL CODE AND/OR INSPECTION AGENCY (AUTHORITY) HAVING JURISDICTION OVER THE WORK.

THE TERMS "APPROVED EQUAL", "EQUIVALENT", OR "EQUAL" ARE USED SYNONYMOUSLY AND SHALL MEAN "ACCEPTED BY OR ACCEPTABLE TO THE ENGINEER AS EQUIVALENT TO THE ITEM OR MANUFACTURER SPECIFIED". THE TERM "APPROVED" SHALL MEAN LABELED, LISTED, OR BOTH, BY AN NRTL, AND ACCEPTABLE TO THE AHJ OVER THIS PROJECT.

COORDINATION

COORDINATE WORK WITH THAT OF OTHER TRADES SO THAT THE VARIOUS COMPONENTS OF THE SYSTEMS WILL BE INSTALLED AT THE PROPER TIME, WILL FIT THE AVAILABLE SPACE, AND WILL ALLOW PROPER SERVICE ACCESS TO THOSE ITEMS REQUIRING MAINTENANCE. COMPONENTS WHICH ARE INSTALLED WITHOUT REGARD TO THE ABOVE SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

UNLESS NOTED ELSEWHERE, GENERAL CONTRACTOR WILL PROVIDE CHASES AND OPENINGS IN BUILDING CONSTRUCTION REQUIRED FOR INSTALLATION OF THE SYSTEMS SPECIFIED HEREIN. CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH INFORMATION REGARDING CHASES AND OPENINGS WHEN REQUIRED. CONTRACTOR SHALL KEEP INFORMED AS TO THE WORK OF OTHER TRADES ENGAGED IN THE CONSTRUCTION OF THE PROJECT AND SHALL EXECUTE HIS WORK IN SUCH A MANNER AS NOT TO INTERFERE WITH OR DELAY THE WORK OF OTHER TRADES.

FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS. CONTRACTOR SHALL TAKE HIS OWN MEASUREMENTS AT THE BUILDING, AS VARIATIONS MAY OCCUR. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ERRORS WHICH COULD HAVE BEEN AVOIDED BY PROPER CHECKING AND VERIFICATION.

PROVIDE MATERIALS WITH TRIM THAT WILL PROPERLY FIT THE TYPES OF CEILING, WALL, OR FLOOR FINISHES ACTUALLY INSTALLED. MODEL NUMBERS LISTED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS ARE NOT INTENDED TO DESIGNATE THE REQUIRED TRIM.

GUARANTEE

THE WORK TO BE PERFORMED UNDER THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLATION, AND CONNECTION OF PLUMBING SYSTEMS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS. BY SIGNING THE CONTRACT, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS ACQUAINTED HIMSELF WITH THE SITE AND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, AND THE DRAWINGS AND SPECIFICATIONS PERTAINING THERETO, AND HE INDICATES THAT HE WILL COMPLY WITH THE REQUIREMENTS AND INTENT OF PERTINENT DOCUMENTS IN THE PERFORMANCE OF THE WORK.

GUARANTEE THAT THE PLUMBING INSTALLED UNDER THIS CONTRACT IS FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF JOB ACCEPTANCE BY THE OWNER. THIS SHALL INCLUDE A GUARANTEE OF FREE CIRCULATION OF LIQUIDS THROUGHOUT THE SYSTEM AS INTENDED WITHOUT LEAKS, EXCESSIVE NOISE, OR WATER HAMMER.

IF DEFECTS OCCUR DURING THE ONE YEAR GUARANTEE PERIOD, REPAIR OR REPLACE SUCH DEFECTS AT NO EXPENSE TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER, ARCHITECT AND ENGINEER.

WARRANTIES

WARRANT EACH SYSTEM AND EACH ELEMENT THEREOF AGAINST ALL DEFECTS DUE TO FAULTY WORKMANSHIP, DESIGN OR MATERIAL FOR A PERIOD OF 12 MONTHS FROM DATE OF SUBSTANTIAL COMPLETION, UNLESS SPECIFIC ITEMS ARE NOTED TO CARRY A LONGER WARRANTY IN THE CONSTRUCTION DOCUMENTS OR MANUFACTURER'S STANDARD WARRANTY EXCEEDS 12 MONTHS. REMEDY ALL DEFECTS, OCCURRING WITHIN THE WARRANTY PERIOD(S). WARRANTIES SHALL INCLUDE LABOR AND MATERIAL. MAKE REPAIRS OR REPLACEMENTS WITHOUT ANY ADDITIONAL COSTS TO THE OWNER. PERFORM THE REMEDIAL WORK PROMPTLY, UPON WRITTEN NOTICE FROM THE ENGINEER OR OWNER.

AT THE TIME OF SUBSTANTIAL COMPLETION, DELIVER TO THE OWNER ALL WARRANTIES, IN WRITING AND PROPERLY EXECUTED, INCLUDING TERM LIMITS FOR WARRANTIES EXTENDING BEYOND THE ONE YEAR PERIOD, EACH WARRANTY INSTRUMENT BEING ADDRESSED TO THE OWNER AND STATING THE COMMENCEMENT DATE AND TERM.

EXCAVATION AND BACKFILLING

PERFORM EXCAVATION AND BACKFILL REQUIRED FOR INSTALLATION OF UNDERGROUND WORK UNDER THIS CONTRACT. TRENCHES SHALL BE OF SUFFICIENT WIDTH. CRIB OR BRACE TRENCHES TO PREVENT CAVE-IN OR SETTLEMENT. DO NOT EXCAVATE TRENCHES CLOSE TO COLUMNS AND WALLS OF NEW BUILDING WITHOUT PRIOR CONSULTATION WITH THE ARCHITECT. USE PUMPING EQUIPMENT IF REQUIRED TO KEEP TRENCHES FREE OF WATER. BACKFILL TRENCHES IN MAXIMUM 6" LAYERS OF WELL-TAMPED DRY EARTH IN A MANNER TO PREVENT FUTURE SETTLEMENT.

COMMON EXCAVATION SHALL COMPRISE THE SATISFACTORY REMOVAL AND DISPOSITION OF MATERIAL OF WHATEVER SUBSTANCES AND OF EVERY DESCRIPTION ENCOUNTERED, INCLUDING ROCK, IF ANY, WITHIN THE LIMITS OF THE WORK AS SPECIFIED AND SHOWN ON THE DRAWINGS. EXCAVATION SHALL BE PERFORMED TO THE LINES AND GRADES INDICATED ON THE DRAWINGS. EXCAVATED MATERIALS WHICH ARE CONSIDERED UNSUITABLE FOR BACKFILL, AND SURPLUS OF EXCAVATED MATERIAL, WHICH IS NOT REQUIRED FOR BACKFILL, SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS OWN EXPENSE AND RESPONSIBILITY, AND TO THE SATISFACTION OF THE ARCHITECT.

CUTTING AND PATCHING

OBTAIN PERMISSION FROM THE ARCHITECT BEFORE CUTTING WALLS, FLOORS, CEILINGS, ETC. AS REQUIRED BY THE PROJECT. DO NOT DISTURB STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL FROM THE ARCHITECT. CUT HOLES AS SMALL AS POSSIBLE. GENERAL CONTRACTOR SHALL PATCH WALLS, FLOORS, ETC. AS REQUIRED BY WORK UNDER THIS SECTION. PATCHING SHALL MATCH ORIGINAL MATERIAL AND CONSTRUCTION. REPAIR AND REFINISH AREAS DISTURBED BY WORK TO THE CONDITION OF ADJOINING SURFACES IN A MANNER SATISFACTORY TO THE ARCHITECT.

CONCRETE BASES

PROVIDE CONCRETE BASES FOR HIS EQUIPMENT WHERE INDICATED ON THE DRAWINGS. CONCRETE BASES SHALL HAVE CHAMFERED EDGES. SIZE OF PAD SHALL BE A MINIMUM OF 4" GREATER THAN THE FOOTPRINT OF THE EQUIPMENT THAT IT IS SUPPORTING.

CONSTRUCT EQUIPMENT BASES AND HOUSEKEEPING PADS OF A MINIMUM 28 DAY, 4000 PSI CONCRETE CONFORMING TO AMERICAN CONCRETE INSTITUTE STANDARD BUILDING CODE FOR REINFORCED CONCRETE (ACI 318-19) AND THE LATEST APPLICABLE RECOMMENDATIONS OF THE ACI STANDARD PRACTICE MANUAL. CONCRETE SHALL BE COMPOSED OF CEMENT CONFORMING TO ASTM C 150 TYPE I, AGGREGATE CONFORMING TO ASTM C33, AND POTABLE WATER. EXPOSED EXTERIOR CONCRETE SHALL CONTAIN 5 TO 7 PERCENT AIR ENTRAINMENT.

PROVIDE GALVANIZED ANCHOR BOLTS FOR EQUIPMENT PLACED ON CONCRETE EQUIPMENT BASES AND HOUSEKEEPING PADS OR ON CONCRETE SLABS. ANCHOR BOLTS SIZE, NUMBER AND PLACEMENT SHALL BE AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.

ACCESS DOORS

PROVIDE ACCESS DOORS IN CEILINGS AND WALLS WHERE INDICATED OR REQUIRED FOR ACCESS TO CONCEALED VALVES AND EQUIPMENT INSTALLED UNDER THIS SECTION. PROVIDE CONCEALED HINGES, SCREWDRIVER-TYPE LOCK, ANCHOR STRAPS; MANUFACTURED BY MILCOR, ZURN, TITUS, OR EQUAL. OBTAIN ARCHITECT'S APPROVAL OF TYPE, SIZE, LOCATION, AND COLOR BEFORE ORDERING.

PENETRATIONS

PROVIDE SLEEVES FOR PIPES PASSING THROUGH ABOVE GRADE CONCRETE OR MASONRY WALLS, CONCRETE FLOOR OR ROOF SLABS. SLEEVES ARE NOT REQUIRED FOR CORE DRILLED HOLES IN EXISTING MASONRY WALLS, CONCRETE FLOORS OR ROOFS. PROVIDE 10 GAUGE GALVANIZED STEEL SLEEVES FOR SLEEVES 6" AND SMALLER. PROVIDE GALVANIZED SHEET METAL SLEEVES FOR LARGER THAN 6". SCHEDULE 40 PVC SLEEVES ARE ACCEPTABLE FOR INSTALLATION IN AREAS WITHOUT RETURN AIR PLENUMS.

SEAL ELEVATED FLOOR, EXTERIOR WALL AND ROOF PENETRATIONS WATERTIGHT AND WEATHERTIGHT WITH NON-SHRINK, NON-HARDENING COMMERCIAL SEALANT. PACK WITH MINERAL WOOL AND SEAL BOTH ENDS WITH MINIMUM OF 1/2" OF SEALANT.

SEAL AROUND PENETRATIONS OF FIRE RATED ASSEMBLIES. COORDINATE FIRE RATINGS AND LOCATIONS WITH THE ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL SPECIFICATIONS FOR FIRE STOPPINGS. PROVIDE A PRODUCT SCHEDULE FOR UL LISTING, LOCATION, WALL OR FLOOR RATING AND INSTALLATION DRAWING FOR EACH PENETRATION FIRE STOP SYSTEM.

EXTEND PIPE INSULATION FOR INSULATED PIPE THROUGH FLOOR, WALL AND ROOF PENETRATIONS, INCLUDING FIRE RATED WALLS AND FLOORS. THE VAPOR BARRIER SHALL BE MAINTAINED. SIZE SLEEVE FOR A MINIMUM OF 1" ANNULAR CLEAR SPACE BETWEEN INSIDE OF SLEEVE AND OUTSIDE OF INSULATION.

SEAL CONCRETE OR MASONRY EXTERIOR WALL PENETRATIONS BELOW GRADE WITH "WALL PIPES" AND MECHANICAL SLEEVE SEALS. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN. PROVIDE MODULAR MECHANICAL SLEEVE SEALS, MANUFACTURED BY THUNDERLINE / LINK SEAL, CALPICO, INC. AND METRAFLEX.

SEAL ELEVATED CONCRETE SLAB WITH WATERPROOF MEMBRANE PENETRATIONS WITH "WALL PIPES" AND WATER PROOF SEALANT. SECURE WATERPROOF MEMBRANE FLASHING BETWEEN "WALL PIPE" CLAMPING FLANGE AND CLAMPING RING. PROVIDE CAST IRON "WALL PIPES" WITH INTEGRAL WATERSTOP RING MANUFACTURED BY JOSAM, JAY R. SMITH, WADE, WATTS OR ZURN.

PROVIDE SLEEVES FOR HORIZONTAL PIPE PASSING THROUGH OR UNDER FOUNDATION. SLEEVES SHALL BE CAST IRON SOIL PIPE TWO NOMINAL PIPE SIZES LARGER THAN THE PIPE SERVED.

PROVIDE SCHEDULE 40 PVC PIPE SLEEVES FOR VERTICAL PRESSURE PIPE PASSING THROUGH CONCRETE SLAB ON GRADE. SLEEVES SHALL BE ONE NOMINAL PIPE SIZE LARGER THAN THE PIPE SERVED AND TWO PIPE SIZES LARGER THAN PIPE SERVED FOR DUCTILE IRON PIPES WITH RESTRAINING RODS. SEAL WATER-TIGHT WITH SILICONE CAULK.

PROVIDE 1/2" THICK CELLULAR FOAM INSULATION AROUND PERIMETER OF NON-PRESSURE PIPE PASSING THRU CONCRETE SLAB ON GRADE. INSULATION SHALL EXTEND TO 2" ABOVE AND BELOW THE CONCRETE SLAB.

ELECTRICAL WIRING

LINE VOLTAGE WIRING SHALL BE PROVIDED BY ELECTRICAL. LINE VOLTAGE CONTROL AND INTERLOCK WIRING FOR PLUMBING SYSTEMS SHALL ALSO BE PROVIDED BY ELECTRICAL CONTRACTOR. LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR. FURNISH WIRING DIAGRAMS TO THE ELECTRICAL CONTRACTOR AS REQUIRED FOR PROPER EQUIPMENT HOOKUP. COORDINATE WITH THE ELECTRICAL CONTRACTOR THE ACTUAL WIRE SIZING AMPS FOR PLUMBING EQUIPMENT (FROM THE EQUIPMENT NAMEPLATE) TO ENSURE PROPER INSTALLATION.

SYSTEM TESTING AND ADJUSTING

UPON COMPLETION OF EACH PHASE OF THE INSTALLATION, TEST EACH SYSTEM IN CONFORMANCE WITH LOCAL CODE REQUIREMENTS AND AS NOTED BELOW. FURNISH LABOR AND EQUIPMENT REQUIRED TO TEST PLUMBING WORK INSTALLED UNDER THIS CONTRACT, AND ASSUME COSTS INVOLVED IN MAKING THE TESTS, AND REPAIRING AND/OR REPLACING DAMAGE RESULTING THEREFROM.

NOTIFY THE ARCHITECT AND THE AUTHORITY HAVING JURISDICTION, THREE (3) WORKING DAYS PRIOR TO MAKING PLUMBING SYSTEM TESTS. LEAVE CONCEALED WORK UNCOVERED UNTIL THE REQUIRED TESTS HAVE BEEN COMPLETED, BUT IF NECESSARY DUE TO CONSTRUCTION PROCEDURE, TESTS ON PORTIONS OF THE WORK MAY BE MADE, AND WHEN SATISFACTORY, THE WORK MAY BE CONCEALED. TEST PIPING BEFORE INSULATION IS INSTALLED, AND BEFORE BACKFILL. PIPES, JOINTS, FLANGES, VALVE STEMS, ETC., SHALL BE LEAK TIGHT. REPAIR OR REPLACE SYSTEM DEFECTS WITH NEW MATERIALS. CAULKING OF DEFECTIVE JOINTS, CRACKS OR HOLES WILL NOT BE PERMITTED. REPEAT TESTS AFTER DEFECTS HAVE BEEN ELIMINATED. MAKE TESTS IN THE PRESENCE OF THE ADMINISTRATIVE AUTHORITY AND/OR THE OWNER'S AUTHORIZED REPRESENTATIVE.

UPON COMPLETION OF THE SYSTEMS INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE ARCHITECT AND ENGINEER, MAKE GENERAL OPERATING TESTS TO DEMONSTRATE THAT EQUIPMENT AND SYSTEMS ARE IN PROPER WORKING ORDER, AND ARE FUNCTIONING IN CONFORMANCE WITH THE INTENT OF THE DRAWINGS AND SPECIFICATIONS. AS A PART OF THESE TESTS, OPEN EVERY WATER OUTLET TO ENSURE COMPLETE SYSTEM FLUSHING, REMOVE AND CLEAN FAUCET AERATORS, CLEAN STRAINERS, LIGHT PILOT LIGHTS, AND OPERATE EVERY PIECE OF EQUIPMENT FURNISHED UNDER THIS CONTRACT TO DEMONSTRATE PROPER FUNCTIONING.

TEST THE DRAINAGE AND VENT SYSTEM BY PLUGGING OPENINGS WITH TEST PLUGS, EXCEPT THOSE AT THE TOP OF THE STACKS. FILL THE SYSTEM WITH WATER; TEST RESULTS WILL BE SATISFACTORY IF THE WATER LEVEL REMAINS STATIONARY FOR NOT LESS THAN ONE (1) HOUR. SUBJECT THE DRAINAGE AND VENT SYSTEM TO A PRESSURE OF AT LEAST TEN (10) FEET OF WATER. IF LEAKS DEVELOP, REPAIR THEM AND REPEAT THE TEST.

TEST THE DOMESTIC WATER SYSTEM BY FILLING IT WITH WATER AND THEN ISOLATING THE SYSTEM FROM ITS SOURCE. KEEP THE SYSTEM CLOSED FOR A PERIOD OF TWENTY-FOUR HOURS, WITH NO FIXTURE BEING USED. THE PRESSURE DIFFERENTIAL FOR THIS TEST PERIOD SHALL NOT EXCEED 10 PSIG. TEST WATER PIPING TO A 125 PSI HYDROSTATIC PRESSURE.

FOR LOW PRESSURE NATURAL GAS SYSTEMS, SUBJECT THE PIPE TO 10 PSIG AIR PRESSURE FOR A PERIOD OF ONE HOUR. THE RESULTANT PRESSURE DIFFERENTIAL FOR THIS PERIOD SHALL BE 0 PSIG. TEST PER GAS COMPANY REQUIREMENTS WHERE REQUIRED. FOR WELDED NATURAL GAS SYSTEMS AND SYSTEMS WITH AN OPERATING PRESSURE IN EXCESS OF 14" WATER COLUMN, SUBJECT THE PIPE TO 60 PSIG AIR PRESSURE FOR A PERIOD OF ONE HOUR. THE RESULTANT PRESSURE DIFFERENTIAL FOR THIS PERIOD SHALL BE 0 PSIG. TEST PER GAS COMPANY REQUIREMENTS WHERE REQUIRED.

PLUMBING PIPING MATERIALS

MATERIALS SPECIFIED OR NOTED ON THE DRAWINGS ARE SUBJECT TO THE APPROVAL OF LOCAL CODE AUTHORITIES. VERIFY APPROVAL BEFORE INSTALLING ANY MATERIAL OR JOINING METHOD.

DOMESTIC WATER (COLD, HOT AND HOT WATER RECIRCULATION): DOMESTIC WATER PIPING INSTALLED ABOVE THE FLOOR SLAB INSIDE THE BUILDING SHALL BE TYPE "L" HARD TEMPER COPPER TUBE WITH WROUGHT COPPER FITTINGS AND SOLDERED CONNECTIONS MADE UP WITH 95/5 SOLDER. BRAZED MECHANICALLY FORMED TEE CONNECTIONS (T-DRILL) MAY BE USED IN COPPER LINES WHERE APPROVED BY CODE; CONNECTION SHALL BE MADE WITH BRAZED SILVER SOLDER (SILFOS) JOINTS IN CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS.
FOR 2" AND SMALLER APPROVED LINKED POLYETHYLENE (PEX) TUBING MEETING ASTM F876, ASTM F877, NSF 14, AND NSF 61, WITH A PRESSURE RATING OF 160PSI AT 73°F AND BLUE OR RED COLOR CODED. DO NOT INSTALL PEX TUBING IN THE RETURN AIR PLENUM CEILING. PEX TUBING MAY BE INSTALLED IN THE RETURN AIR PLENUM CEILING IF INSULATED WITH PLENUM WRAP WHERE APPROVED BY THE AUTHORITY HAVING JURISDICTION.

UNDERGROUND DOMESTIC WATER PIPING 2" AND SMALLER SHALL BE TYPE "K" SOFT TEMPER COPPER TUBING WITH FLARED COPPER ALLOY FITTINGS AND CONNECTIONS, OR TYPE "K" HARD TEMPER COPPER TUBING WITH CONVENTIONAL WROUGHT COPPER FITTINGS AND SILVER SOLDER (SILFOS) JOINTS. INSTALL AS FEW UNDERGROUND COPPER PIPING JOINTS AS POSSIBLE. AT BUILDING SERVICE ENTRANCE, NO JOINTS SHALL BE INSTALLED UNDER OR WITHIN 5 FEET OF THE BUILDING. INSTALL DOMESTIC WATER PIPING BELOW GRADE OUTSIDE BUILDING AT ADEQUATE DEPTH TO PREVENT FREEZING.

INTERIOR WASTE AND VENT BELOW SLAB: WASTE AND VENT PIPE BELOW SLAB INSIDE BUILDING SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE WITH HUB AND SPIGOT FITTINGS WITH NEOPRENE GASKET JOINTS, MEETING ASTM A74, MANUFACTURED BY AB & I FOUNDRY, CHARLOTTE OR TYLER PIPE AND BEARING THE TRADEMARK OF THE CISPI AND NSF. HUBLESS WASTE AND VENT PIPE IS NOT PERMITTED BELOW BASE SLAB. PVC SCHEDULE 40 DWV ASTM D2665 PIPE WITH PVC MEETING ASTM B1784, "SOLID WALL" CELL CLASS 12454-B WITH ASTM 2665 SOCKET FITTINGS WITH SOLVENT WELD JOINTS IS ALSO PERMITTED WHERE APPROVED BY CODE.

INTERIOR WASTE AND VENT ABOVE SLAB: WASTE AND VENT PIPE ABOVE SLAB INSIDE BUILDING SHALL BE HUBLESS CAST IRON SOIL PIPE AND FITTINGS, MEETING ASTM A888 AND CISPI 301, MANUFACTURED BY AB & I FOUNDRY, CHARLOTTE OR TYLER PIPE AND BEARING THE TRADEMARK OF THE CISPI AND NSF. PVC SCHEDULE 40 DWV ASTM D2665 PIPE WITH PVC MEETING ASTM B1784, "SOLID WALL" CELL CLASS 12454-B WITH ASTM 2665 SOCKET FITTINGS WITH SOLVENT WELD JOINTS IS ALSO PERMITTED WHERE APPROVED BY CODE. (NOTE: PVC PIPING IS NOT ALLOWED IN CEILING RETURN AIR PLENUMS)

INTERIOR STORM: INSIDE BUILDING SHALL BE SAME AS SPECIFIED FOR INTERIOR WASTE AND VENT PIPE.

NATURAL GAS: GAS PIPING ABOVE GROUND SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON SCREWED FITTINGS, OR STANDARD WELDED FITTINGS. UNDERGROUND GAS PIPING SHALL BE HIGH DENSITY OR ULTRAHIGH DENSITY POLYETHYLENE PIPE AS REQUIRED BY THE GAS UTILITY COMPANY. POLYETHYLENE PIPE SHALL CONFORM TO ASTM D1248, D3350 AND D2513, AS APPROPRIATE. POLYETHYLENE PIPE SHALL BE PHILLIPS DRISCOPIPE SERIES 6500, OMEGA ENGINEERING, PEPCO, OR APPROVED EQUAL. INSTALLATION SHALL BE IN CONFORMANCE WITH UTILITY COMPANY RULES. PROVIDE POLYETHYLENE TO STEEL PIPE TRANSITION FITTINGS BY PERFECTION CORPORATION, R W LYALL OR CENTRAL PLASTICS AT TRANSITIONS FROM BELOW GRADE TO ABOVE GRADE. FACTORY ASSEMBLED AND PRESSURE TESTED ONE PIECE DESIGN, WITH STEEL HALF OF SCHEDULE 40 STEEL PIPE WITH BEVELED EDGE FOR WELDING AND POLYETHYLENE HALF SHALL BE OF AMPLE LENGTH FOR MAKING WELDS. STEEL PIPE SHALL HAVE EPOXY PROTECTIVE COATING.

CONNECTIONS TO PLUMBING FIXTURES AND EQUIPMENT: 1-1/4" AND LARGER WASTE CONNECTIONS FROM FIXTURE TRAPS TO CAST IRON PIPE SHALL BE "DWV" COPPER WITH WROUGHT COPPER DRAINAGE PATTERN FITTINGS WITH COPPER SWEAT OR COMPRESSION JOINTS AT FIXTURE TRAP CONNECTIONS AND THREADED JOINTS AT CONNECTIONS TO CAST IRON PIPE.

INDIRECT AND CONDENSATE DRAIN INSIDE BUILDING: INDIRECT AND CONDENSATE DRAIN PIPE INSTALLED INSIDE THE BUILDING SHALL BE TYPE "M" HARD COPPER WITH WROUGHT COPPER FITTINGS FOR 1" AND SMALLER AND "DWV" COPPER WITH WROUGHT COPPER DRAINAGE PATTERN FITTINGS FOR 1-1/4" AND LARGER HARD TEMPER COPPER TUBE AND SOLDERED CONNECTIONS MADE WITH 95/5 SOLDER OR SCHEDULE 40 PVC PIPE AND FITTINGS WITH SOLVENT WELD JOINTS WHERE ALLOWED BY CODE. (NOTE: PVC PIPING IS NOT ALLOWED IN CEILING RETURN AIR PLENUMS). INSTALL CLEANOUTS AT ELBOWS GREATER THAN 45 DEGREES.

INDIRECT AND CONDENSATE DRAIN OUTSIDE BUILDING: INDIRECT AND CONDENSATE DRAIN PIPE INSTALLED OUTSIDE THE BUILDING ABOVE GROUND SHALL BE TYPE "M" FOR 1" AND SMALLER AND "DWV" FOR 1-1/4" AND LARGER HARD TEMPER COPPER TUBE WITH WROUGHT COPPER DRAINAGE PATTERN FITTINGS AND SOLDERED CONNECTIONS MADE WITH 95/5 SOLDER. TERMINATE AT NEAREST ROOF DRAIN, GUTTER OR OTHER LOCATION AS SHOWN DRAWINGS. INSTALL CLEANOUTS AT ELBOWS GREATER THAN 45 DEGREES.

SUMP PUMP DISCHARGE: SUMP PUMP DISCHARGE PIPING ABOVE GRADE SHALL BE ASTM A53 SCHEDULE 40 GALVANIZED STEEL PIPE WITH GALVANIZED MALLEABLE IRON FITTINGS. SUMP PUMP DISCHARGE PIPING BELOW GRADE SHALL BE ASTM D-1785 SCHEDULE 40 PVC PIPE WITH SOCKET WELD PRESSURE FITTINGS.

PIPING AND EQUIPMENT INSULATION

INSULATE DOMESTIC COLD WATER, HOT WATER, HOT WATER RECIRCULATION, WITH ONE-PIECE FIBERGLASS COVERING FOR WITH FIRE-RESISTANT JACKET WITH SELF-SEALING LAP TO PROVIDE A CONTINUOUS VAPOR BARRIER BY CERTAINTEED, OWENS-CORNING OR ARMSTRONG. INSULATE INTERIOR CONDENSATE DRAINPIPE (WITHIN BUILDING) AND INTERIOR HORIZONTAL STORM DRAIN PIPING, THAT IS CONCEALED ABOVE THE CEILING WITH, 1" THICK ONE-PIECE FIBERGLASS COVERING. FOR HOT PIPING, PROVIDE PIPE HANGERS AND RISER CLAMPS SIZED FOR THE OUTSIDE DIAMETER OF PIPING. BUTT INSULATION TO HANGER OR RISER CLAMP FOR VERTICAL PIPE. SEAL EXPOSED INSULATION WITH INSULATION SEALER. EXCEPTION FOR VERTICAL PIPING: PROVIDE CLAMPS SIZED FOR THE OUTSIDE DIAMETER OF THE VERTICAL PIPE AND EXTEND CLAMP THROUGH INSULATION. SEAL PENETRATIONS OF INSULATION AND VAPOR BARRIER WITH WET COAT OF VAPOR BARRIER LAP CEMENT. FOR COLD PIPING AT HANGERS PROVIDE 8" LONG SECTIONS OF HIGH DENSITY, HIGH TEMPERATURE CALCIUM SILICATE BY JOHNS-MANVILLE, FIBERGLASS BY KNAUF, OR 8" LONG STYROFOAM BILLETS BY DOW OR FLEXIBLE UNICELLULAR PIPING INSULATION MEETING ASTM C 534-01A, TYPE I WITH INTEGRAL HIGH DENSITY PIPE SUPPORTS AND ENCASED IN STEEL INSULATION SHIELD BY COOPER B-LINE / ARMACELL OR APPROVED EQUAL. INSULATION SHALL BE CONTINUOUS ALONG THE PIPE SURFACE, EXCEPT AT VALVES, UNIONS, AND WHERE PIPING IS EXPOSED AT FIXTURES. PROVIDE INSULATION PROTECTION SHIELD AT EACH HANGER FOR INSULATED PIPING.

FOR HOT AND COLD WATER PIPING INSTALLED INSIDE MASONRY UNITS OF WALLS, PROVIDE FLEXIBLE UNICELLULAR INSULATION BY ARMACELL.

COVER FITTINGS WITH ZESTON, KNAUF, OR EQUAL ONE-PIECE PVC PREMOLDED INSULATING COVERS. FITTING COVERS, JACKETS AND ADHESIVES SHALL NOT EXCEED FLAME SPREAD RATING OF 25 AND SMOKE DEVELOPMENT RATING OF 50 PER ASTM E84. AT ALL ELBOWS AND TEES, FILL VOIDS BETWEEN COVERS AND PIPING WITH FIBERGLASS INSULATION AND TAPE JOINTS. INSTALL PIPE INSULATION IN COMPLIANCE WITH MANUFACTURER'S RECOMMENDATIONS. WHERE PREMOLDED INSULATING FITTINGS ARE NOT APPROVED BY LOCAL AUTHORITIES, MITER INSULATION AT FITTINGS.

PROVIDE 1" THICK FIBERGLASS INSULATION ON VENT PIPING WITHIN SIX FEET OF VENT THROUGH THE OF ROOF.

PIPING JOINTS

COPPER TUBING: JOINTS IN HARD TEMPER TUBING SHALL BE SOLDERED JOINTS USING LEAD-FREE 95/5 SOLDER EXCEPT WHERE TUBING IS INSTALLED BELOW GRADE OR BELOW THE BASE SLAB, IN WHICH CASE JOINTS SHALL BE SOLDERED WITH SILVER SOLDER (SILFOS). JOINTS IN SOFT TEMPER COPPER TUBING SHALL BE OF THE FLARED TYPE INSTALLED IN COMPLIANCE WITH THE FITTING MANUFACTURER'S RECOMMENDATIONS.

THREADED STEEL PIPE: THREADED JOINTS SHALL BE FULL AND CLEAN, CUT WITH NOT MORE THAN THREE (3) THREADS EXPOSED BEYOND THE FITTINGS. MAKE JOINTS TIGHT WITH GRAPHITE BASE PIPE JOINT COMPOUND AND PAINT EXPOSED THREADS OF FERROUS PIPE WITH ACID-RESISTING PAINT AFTER PIPING HAS BEEN TESTED AND PROVEN TIGHT. NO CAULKING, LAMP-WICK OR OTHER MATERIAL WILL BE PERMITTED FOR CORRECTION OF DEFECTIVE JOINTS.

WELDED STEEL PIPE: WELDED JOINTS SHALL BE OF THE BUTT WELDED SINGLE "VEE" TYPE. BEVEL PIPE AT A 45 DEGREE ANGLE TO WITHIN 1/16" OF THE INSIDE WALL AND BUILD UP THE WELD TO ONE FOURTH GREATER DEPTH THAN THE PIPE WALL THICKNESS. WELDING SHALL BE EITHER ELECTRIC OR OXY-ACETYLENE, PERFORMED IN CONFORMANCE WITH THE ASME CODE FOR PRESSURE PIPE WELDING, AND ONLY BY EXPERIENCED CERTIFIED WELDERS.

CAST IRON PIPE BELOW GRADE: JOINTS IN BELL AND SPIGOT CAST IRON WASTE AND VENT PIPE SHALL BE NEOPRENE COMPRESSION GASKETS, TYSEAL OR EQUAL.

CAST IRON PIPE ABOVE GRADE: JOINTS IN HUBLESS PIPE SHALL BE STANDARD CISPI 310 NSF CERTIFIED BY ANACO, IDEAL, MISSON OR TYLER. JOINTS IN STORM PIPING, INCLUDING CONNECTIONS TO ROOF DRAINS, SHALL BE HEAVY DUTY COUPLINGS MEETING ASTM C1540 AND FM 1680, ANACO HUSKY #SD-4000 OR CLAMP-ALL "HI TORQUE" 125-IN.LB.

PVC PIPE: CLEAN JOINTS FREE FROM DEBRIS AND MOISTURE. APPLY PVC PRIMER MEETING ASTM F656 TO EACH JOINT. APPLY SOLVENT CEMENT MEETING ASTM D2564 AND MAKE JOINT WHILE WET AND IN ACCORDANCE WITH ASTM D2855.

PEX TUBE: THE FITTINGS ARE ENGINEERED POLYMER AND LEAD-FREE BRASS COLD EXPANSION TYPE WITH PEX REINFORCING RINGS IN COMPLIANCE WITH ASTM F1960. PEX HOSE BARB FITTINGS MEETING ASTM 1807 OF BRASS FOR USE WITH PEX TUBING WITH COPPER CRIMP RING. CUT ENDS OF TUBING STRAIGHT AND TRUE. MANUFACTURED BY IPEX PLUMBETTER PEX TUBING, VIEGA, WIRSBO OR ZURN INDUSTRIES.

PIPE ADAPTERS: MAKE CONNECTION OF NEW WASTE PIPE TO NEW OR EXISTING DISSIMILAR WASTE PIPE USING ADAPTER COUPLINGS. PROVIDE FERNCO, PROFLEX 3000 SERIES OR MISSION FLEXSEAL MR56 SERIES WITH NEOPRENE ADAPTER GASKET WITH STAINLESS STEEL SHIELD AND HOSE CLAMPS FOR CONNECTING DISSIMILAR PIPES ABOVE GRADE. PROVIDE FERNCO, 1056 SERIES OR MISSION SEWER COUPLINGS WITH NEOPRENE ADAPTER GASKET AND HOSE CLAMPS FOR CONNECTING DISSIMILAR PIPES BELOW GRADE AND COAT STAINLESS STEEL BANDS WITH MASTIC.

CPVC PIPE: CLEAN JOINTS FREE FROM DEBRIS AND MOISTURE. APPLY CPVC PRIMER MEETING ASTM F656 TO EACH JOINT. APPLY SOLVENT CEMENT MEETING ASTM F493 AND MAKE JOINT WHILE WET AND IN ACCORDANCE WITH ASTM D2855.

PIPING INSTALLATION

GENERAL: CLEAN PIPE THOROUGHLY PRIOR TO INSTALLATION. REAM ENDS OF PIPE TO REMOVE BURRS. CUT PIPE ACCURATELY TO MEASUREMENTS TAKEN ON THE JOB. INSTALL WITH ADEQUATE CLEARANCE FOR INSTALLATION OF COVERINGS WHERE REQUIRED. PIPE SHALL NOT BE SPRUNG OR BENT. NEATLY ALIGN PIPE, CONNECT IT SECURELY, AND SUPPORT IT FROM THE BUILDING STRUCTURE WITH HANGERS AS SPECIFIED BELOW. PROVIDE CHROME-PLATED ESCUTCHEONS ON PIPES PASSING THROUGH CEILINGS, FLOORS OR WALLS OF FINISHED SPACES. RUN PIPES FREELY THROUGH FLOOR AND WALL PENETRATIONS USING PIPE SLEEVES. DO NOT GROUT IN PLACE UNLESS REQUIRED FOR STRUCTURAL FIRE INTEGRITY. INSTALL PIPE CONCEALED IN FINISHED SPACES WHEREVER POSSIBLE. USE A DIELECTRIC UNION WHERE FERROUS AND COPPER PIPE CONNECT. DIELECTRIC UNION SHALL HAVE A ZINC-PLATED STEEL BODY, A THREADED NYLON INSERT, AND INSULATING PRESSURE GASKET. NO FERROUS METAL-TO-COPPER CONNECTION MADE WITHOUT INSULATING UNIONS WILL BE ALLOWED.

HANGER & SUPPORTS: PIPE HANGERS SHALL BE AS DESCRIBED IN THE SPECIFICATIONS BY B-LINE OR EQUAL BY ANVIL, MICHIGAN, TRUSCON, OR UNISTRUT. CONNECT HANGERS TO THE STRUCTURE WITH SIDE BEAM CONNECTORS AND ALL THREAD HANGER RODS. PROVIDE ENGINEERED SUPPORT STRUTS BETWEEN JOISTS AND OTHER STRUCTURAL MEMBERS AS REQUIRED TO PROVIDE A RIGID HANGING INSTALLATION. DO NOT HANG PIPES FROM OTHER PIPES, CONDUIT OR DUCTWORK. PROVIDE HANGER RODS AND SPACE HANGERS AT INTERVALS AS SPECIFIED IN "HANGER SPACING". PROVIDE SUPPORT WITHIN 1' OF EACH ELBOW AND TEE. PROVIDE SUPPORTS WITHIN 1' OF EACH EQUIPMENT CONNECTION. PROVIDE TWO NUTS ON THREADED SUPPORTS TO SECURELY FASTEN THE SUPPORT. INSTALL HANGER TYPES OR SUPPORTS FOR VARIOUS PIPING AS FOLLOWS:

PEX TUBE: PEX TUBING SHALL NOT BE INSTALLED WITHIN THE FIRST 18 INCHES OF PIPING CONNECTED TO THE HOT WATER HEATER. PEX TUBING SHALL NOT BE INSTALLED WITHIN 6 INCHES HORIZONTALLY OR WITHIN 12 INCHES VERTICALLY FROM ANY SOURCE OF HEAT, SUCH AS GAS APPLIANCE VENTS, LIGHT FIXTURES, HEATING APPLIANCES, ETC. PEX TUBING SHALL NOT BE INSTALLED IN LOCATIONS WHERE EXPOSED TO DIRECT SUNLIGHT. THESE TUBES SHALL NOT BE DEFORMED OR KINKED. TUBING PASSING THROUGH DRILLED OR NOTCHED METAL STUDS OR JOIST OR HOLLOW SHELL MASONRY WALLS SHALL BE PROTECTED FROM ABRASION DUE TO THERMAL EXPANSION AND CONTRACTION BY ELASTOMERIC OR PLASTIC SLEEVES. TUBING PENETRATING FRAMING MEMBERS WITHIN ONE INCH OF THE EXPOSED FRAMING SHALL BE PROTECTED BY STEEL NAIL PLATES NOT LESS THAN 18 GAUGE IN THICKNESS. THE STEEL PLATE SHALL EXTEND ALONG THE FRAMING A MINIMUM OF 1-1/2 INCHES BEYOND THE OUTSIDE DIAMETER OF THE PIPE OR TUBING. PEX TUBING GREATER THAN 3/4 INCH INSTALLED WITHIN AIR PLENUM SHALL BE INSULATED WITH 1/2" INCH THICK MASON ALLEY-K, ARMAFLEX COMPOSITE, JOHNS MANVILLE MICRO-LOK, JOHN MANVILLE MICRO-LOK HP, OWENS COMING VAPOR WICK OR OWENS COMING FIBERGLASS INSULATION. TUBING WITH A MAXIMUM NOMINAL DIAMETER OF 3/4 INCH MAY BE INSTALLED WITHOUT INSULATION SO LONG AS A MINIMUM SPACING OF 18 INCHES IS KEPT BETWEEN ADJACENT RUNS OF TUBING.

COPPER TUBE: ADJUSTABLE BAND HANGERS FOR BARE COPPER TUBE 3" AND SMALLER SHALL BE B-LINE #B3170 CT COPPER PLATED ADJUSTABLE BAND SWIVEL RING TYPE. ADJUSTABLE BAND HANGERS FOR INSULATED COPPER TUBE AND 3" SMALLER SHALL BE B-LINE #B3170 NF ADJUSTABLE BAND SWIVEL RING TYPE. CLEVIS HANGERS FOR INSULATED COPPER TUBE 4" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. SUPPORT EXPOSED COPPER TUBE 2" AND SMALLER TO WALLS OR IN CHASES WITH B-LINE #B3198RCT COPPER COATED EXTENSION SPLIT RING PIPE CLAMPS, 3/8" THREADED ROD AND B-LINE #B3199CT CEILING FLANGES. SUPPORT COPPER TUBE IN CHASES AND WALLS AT PLUMBING FIXTURES WITH PLASTIC OR COPPER BRACKETS SECURED TO STRUCTURE AND U-BOLTS SIZED TO BARE ON THE PIPE. RISER CLAMPS TO SUPPORT VERTICAL COPPER TUBE SHALL BE B-LINE #B3373CT COPPER COATED STEEL, CUT INSULATION, SEAL VAPOR BARRIER, AND ATTACH TO BARE TUBE.

STEEL PIPE: ADJUSTABLE BAND HANGERS FOR 2" AND SMALLER SHALL BE B-LINE #B3170 NF ADJUSTABLE BAND SWIVEL RING TYPE. CLEVIS HANGERS FOR 2-1/2" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. RISER CLAMPS TO SUPPORT VERTICAL PIPE SHALL BE B-LINE #B3373 GALVANIZED STEEL.

CAST IRON PIPE: ADJUSTABLE BAND HANGERS FOR 2" AND SMALLER. CLEVIS HANGERS FOR 3" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. RISER CLAMPS TO SUPPORT VERTICAL PIPE SHALL BE B-LINE #B3373 GALVANIZED STEEL.

PVC PIPE: ADJUSTABLE BAND HANGERS FOR 3" AND SMALLER. CLEVIS HANGERS FOR 4" AND LARGER SHALL BE B-LINE #B3100 GALVANIZED STEEL CLEVIS TYPE. RISER CLAMPS TO SUPPORT VERTICAL PIPE SHALL BE B-LINE #B3373 GALVANIZED STEEL.

INSULATION PROTECTION SHIELDS: B-LINE #B3151 OF 18 GAUGE GALVANIZED SHEET METAL. SHIELD SHALL COVER HALF OF THE CIRCUMFERENCE OF THE PIPE AND SHALL BE OF LENGTH INDICATED BY MANUFACTURER FOR PIPE SIZE AND THICKNESS OF INSULATION.

HANGER SPACING, ROD SIZES & CONNECTORS: CONNECT RODS TO STEEL BEAMS OR JOISTS WITH B-LINE #B3031 OR #B3033BEAM CLAMPS AS REQUIRED. CONNECT RODS TO CONCRETE WITH B-LINE #3014 MALLEABLE IRON SINGLE TYPE INSERTS WITH MALLEABLE IRON NUT. CONNECT RODS IN WOOD CONSTRUCTION WITH B-LINE #B3058 SIDE BEAM CONNECTORS. HANG AND SUPPORT PIPING WITH SPACING AND ROD SIZES AS FOLLOWS:

PEX TUBE: PEX TUBING 1" AND SMALLER SHALL BE SUPPORTED AT 32" INTERVALS FOR HORIZONTAL RUNS. PEX TUBING 1-1/4" AND LARGER SHALL BE SUPPORTED AT 4 FEET INTERVALS FOR HORIZONTAL RUNS. ALL SIZE TUBING SHALL BE SUPPORTED AT THE BASE AND AT EACH FLOOR FOR VERTICAL RUNS. FURTHERMORE, VERTICAL RUNS SHALL BE PROVIDED WITH MID-STORY GUIDES.

COPPER TUBE: 1-1/2" AND SMALLER – EVERY 6' WITH 3/8" HANGER RODS; 2" EVERY 10' WITH 3/8" HANGER RODS; 2-1/2" EVERY 10' WITH 3/8" HANGER RODS; 3" EVERY 10' WITH 1/2" RODS, 4" EVERY 10' WITH 5/8" HANGER RODS. SUPPORT VERTICAL COPPER TUBE EVERY 10'.

STEEL PIPE: 1" AND SMALLER – EVERY 8' WITH 3/8" HANGER RODS; 1-1/4" TO 2" EVERY 10' WITH 3/8" HANGER RODS; 2-1/2" AND 3" EVERY 10' WITH 1/2" HANGER RODS, 4" EVERY 10' WITH 5/8" HANGER RODS. SUPPORT VERTICAL STEEL PIPE EVERY 10'.

CAST IRON PIPE: EVERY 10' AND WITHIN 1' OF EACH JOINT. 2" AND SMALLER WITH 3/8" HANGER RODS; 3" WITH 1/2" HANGER RODS; 4" WITH 5/8" HANGER RODS; 6" WITH 3/4" HANGER RODS; 8" AND LARGER WITH 7/8" HANGER RODS. SUPPORT VERTICAL CAST IRON PIPE EVERY 15'.

PVC PIPE: SUPPORT ALL PIPES SIZES EVERY 4'. 1-1/2" AND SMALLER WITH 3/8" HANGER RODS; 2" WITH 1/2" HANGER RODS; 2-1/2" AND 3" WITH 1/2" HANGER RODS, 4" AND LARGER WITH 5/8" HANGER RODS. SUPPORT VERTICAL PVC PIPE EVERY 4'.

SUPPORTS ON ROOF: SUPPORT PIPING ON ROOF WITH PRE-ENGINEERED ROOF PIPE SUPPORTS MANUFACTURED BY B-LINE, ERICO, MIRO OR PORTABLE PIPE HANGERS: 4" X 4" X 12" LONG CLOSED CELL POLYETHYLENE BLOCKS WITH EMBEDDED PRE-ENGINEERED SUPPORT STRUT OR PRE-ENGINEERED SUPPORT STRUTS WITH FACTORY PLASTIC BASES. TWO PIECE STRAPS SHALL BE CAPTIVATED AT THE SHOULDER WHEN ATTACHMENT NUT IS TIGHTENED AND DESIGNED FOR USE WITH STRUT SYSTEM. ALL NUTS, BRACKETS AND CLAMPS SHALL HAVE THE SAME FINISH AS THE CHANNELS. SUPPORT PIPE WITH SPACING AS DESCRIBED ABOVE AT A MINIMUM 7" ABOVE THE ROOF. SET SUPPORTS ON 18" X 18" X 3/16" THICK ROOF WALKWAY MATERIAL COMPATIBLE WITH ACTUAL ROOF MATERIAL.

SUPPORTS ON FLOOR: SUPPORT PIPING FROM THE FLOOR WHERE REQUIRED FOR FERROUS PIPE OR INSULATED COPPER TUBE, SHALL BE B-LINE B3093 GALVANIZED STEEL WITH PIPE SADDLE, THREADED SHANK FOR HEIGHT ADJUSTMENT AND FLOOR STAND SECURED TO THE FLOOR.

UNDERGROUND WARNING TAPE: UNDERGROUND WARNING TAPE SHALL BE MARKING SERVICES INCORPORATED # 52205 FOR FERROUS SEWER PIPE AND # 52206 FOR DOMESTIC WATER PIPE OR EQUAL BY BRADY IDENTOLINE AND SETON. PROVIDE 4MIL THICK NON-ADHESIVE POLYETHYLENE TYPE TAPE. DETECTABLE UNDERGROUND WARNING TAPE SHALL BE MARKING SERVICES INCORPORATED # 52216 FOR PLASTIC GAS PIPE AND # 52218 FOR PLASTIC SEWER PIPE. PROVIDE NON-ADHESIVE 4MIL THICK TYPE TAPE WITH 18 AWG COPPER OR ALUMINUM TRACER WIRE SUITABLE FOR DETECTION UP TO 3'-0" OF BURIAL.

BELOW GROUND INSTALLATION FOR SOIL, WASTE AND STORM: INSTALL SOIL AND WASTE PIPING TO A UNIFORM SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" OR LARGER, AND NOT LESS THAN 1/4" PER FOOT FOR GREASE WASTE PIPING OR PIPING 3" OR SMALLER. SLOPE STORM PIPING AT A SLOPE INDICATED ON FLOOR PLANS. LAY PIPE AT UNIFORM SLOPE, FREE FROM SAGS, WITH HUB END UPSTREAM. MAKE CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AT FIXTURE BRANCHES AND OTHER BRANCH CONNECTIONS WITH SANITARY "TEES" OR SHORT SWEEP "ELLS". MAKE CHANGES IN DIRECTION FROM VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL WITH LONG RADIUS FITTINGS, LONG SWEEPING "ELLS", COMBINATION "Y AND 1/8 BEND" FITTINGS, OR 45 DEGREE "ELLS" (1/8 BEND FITTINGS), 1/6 BEND OR 1/16 BEND AND "Y" FITTINGS. INSTALL PIPE WITH THE BARREL OF THE PIPE ON FIRM, SOLID EARTH FOR ITS ENTIRE LENGTH, AND EXCAVATE HOLES FOR THE PIPE BELLS. LAY PIPE IN A STRAIGHT LINE AND INSTALL WITH UNIFORM GRADE TO LINE WITH BATTEN BOARDS SET NOT MORE THAN 24'-0" APART. CLOSE OPEN ENDS OF PIPE WITH A STOPPER WHEN PIPE LAYING IS NOT IN PROGRESS. CENTER SPIGOTS ACCURATELY IN BELLS FOR UNIFORM CAULKING. PROVIDE A SMOOTH AND UNIFORM INVERT IN THE SYSTEM. DRILLING OR TAPPING OF SOIL AND WASTE LINES, AND SADDLE HUBS AND BANDS ARE NOT PERMITTED. LOCATE AND INSTALL SOIL AND WASTE LINES AS INDICATED ON THE DRAWINGS. DETERMINE EXACT LOCATIONS IN SUCH A MANNER AS TO MAINTAIN PROPER CLEARANCE. PRIOR TO INSTALLATION OF ANY BUILDING DRAINPIPE, VERIFY ELEVATION OF CONNECTION POINT OF EXISTING SEWER, SERVICE LINE OR EXISTING TENANT CONNECTIONS INDICATED ON THE DRAWINGS.

ABOVE GROUND INSTALLATION FOR SOIL, WASTE AND STORM: INSTALL SOIL AND WASTE PIPING TO A UNIFORM SLOPE OF NOT LESS THAN 1/8" PER FOOT FOR PIPING 4" OR LARGER, AND NOT LESS THAN 1/4" PER FOOT FOR GREASE WASTE PIPING OR PIPING 3" OR SMALLER. SLOPE STORM PIPING AT SLOPE INDICATED ON FLOOR PLANS. LAY PIPE AT UNIFORM SLOPE FREE FROM SAGS. SUPPORT PIPE WITHIN 12" OF EACH JOINT. MAKE CHANGES IN DIRECTION FROM HORIZONTAL TO VERTICAL, AT FIXTURE BRANCHES AND OTHER BRANCH CONNECTIONS WITH SANITARY "TEES" OR SHORT SWEEP "ELLS". MAKE CHANGES IN DIRECTION FROM VERTICAL TO HORIZONTAL OR HORIZONTAL TO HORIZONTAL WITH LONG RADIUS FITTINGS, LONG SWEEPING "ELLS", COMBINATION "Y AND 1/8 BEND" FITTINGS, OR 45 DEGREE "ELLS" (1/8 BEND FITTINGS), 1/6 BEND OR 1/16 BEND AND "Y" FITTINGS. PROVIDE A SMOOTH AND UNIFORM INVERT IN THE SYSTEM. DRILLING OR TAPPING OF SOIL AND WASTE LINES, AND SADDLE HUBS AND BANDS ARE NOT PERMITTED. LOCATE AND INSTALL SOIL AND WASTE LINES AS INDICATED ON THE DRAWINGS. DETERMINE EXACT LOCATIONS IN SUCH A MANNER AS TO MAINTAIN PROPER CLEARANCE.

PLUMBING VENT: CONNECT PLUMBING VENT PIPES TO FIXTURE DRAINPIPES AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE INSTALLATION PRACTICES ADOPTED AND ENFORCED BY LOCAL CODES OFFICIAL AND EXTEND VENT PIPES FULL SIZE THROUGH THE ROOF LINE. GRADE PIPE TO A UNIFORM SLOPE SO AS TO DRAIN BACK BY GRAVITY TO THE DRAINAGE PIPING SYSTEM. VENTS PASSING THROUGH THE ROOF SHALL BE MINIMUM 3" SIZE EXCEPT IN TROPICAL CLIMATES, PER LOCAL CODES. TURN FLASHING DOWN INTO STACKS AT LEAST 2" AND EXTEND FLASHING 24" IN ALL DIRECTIONS FROM THE PIPE AT THE ROOF LINE. APPLY WHITE LEAD PIPE DOPE ON MALE STEEL PIPE THREADS. VENT LINES SHALL BE AIR AND WATERTIGHT. VENT FLOOR DRAINS INDIVIDUALLY OR CONNECT THEM TO A HORIZONTALLY VENTED LINE AS SHOWN ON THE DRAWINGS.

DOMESTIC WATER: ARRANGE COLD, HOT, AND HOT WATER RECIRCULATION PIPING TO DRAIN AT THE LOWEST POINT IN EACH SYSTEM. INSTALL AT LEAST ONE PIPE UNION ADJACENT TO ALL SHUTOFF VALVES, AT CONNECTION POINTS OF EACH PIECE OF EQUIPMENT, AND ELSEWHERE IN THE SYSTEM WHERE REQUIRED TO ALLOW PROPER MAINTENANCE. PROVIDE UNIONS OF THE GROUND JOINT TYPE. MAKE ALLOWANCE FOR EXPANSION AND CONTRACTION WHERE REQUIRED BY THE INSTALLATION. WHERE WATER PIPING OCCURS IN EXTERIOR WALLS, HOLD PIPE AS CLOSE AS POSSIBLE TO THE INTERIOR FACE OF WALL AND INSTALL INSULATION BATT OR OTHER INSULATION (MINIMUM R8) BETWEEN PIPING AND THE EXTERIOR WALL FACE. INSTALL PLASTIC UNDERGROUND WARNING TAPE WITH NAME OF SERVICE INDICATED CONTINUOUSLY ALONG ITS LENGTH FOR DOMESTIC WATER PIPE FIVE FEET OUTSIDE THE BUILDING.

NATURAL GAS: PITCH NATURAL GAS PIPING AND PROVIDE ACCESSIBLE DIRT LEGS AT THE LOW POINTS. TAKE BRANCH PIPES OFF THE TOP OR SIDES OF MAIN PIPES, TO PREVENT ACCUMULATION OF WATER IN THE BRANCHES. INSTALL GAS PIPING VALVES AND UNIONS ONLY IN ACCESSIBLE LOCATIONS. DO NOT INSTALL GAS PIPE BELOW THE BASE SLAB.

PIPING SANITIZATION

SANITIZE THE ENTIRE DOMESTIC WATER PIPING SYSTEM (COLD, HOT, AND HOT WATER RETURN) WITH A SOLUTION CONTAINING NOT LESS THAN 50 PPM AVAILABLE CHLORINE. KEEP SOLUTION IN THE SYSTEM FOR A MINIMUM OF 24 HOURS, WITH EACH VALVE BEING OPERATED SEVERAL TIMES DURING THE PERIOD. AFTER COMPLETION, FLUSH SYSTEM WITH CITY WATER UNTIL CHLORINE RESIDUAL IS LOWERED TO INCOMING CITY WATER LEVEL.

PIPE AND VALVE MARKERS

PROVIDE MANUFACTURER'S STANDARD PRE-PRINTED, SEMI-RIGID SNAP-ON OR PERMANENT ADHESIVE, PRESSURE-SENSITIVE VINYL PIPE MARKERS. PIPE MARKERS SHALL BE COLOR-CODED COMPLYING WITH ANSI A13.1.

INSTALL PIPE MARKERS ON EACH PLUMBING PIPING SYSTEM AND INCLUDE ARROWS TO SHOW NORMAL DIRECTION OF FLOW.

LOCATE PIPE MARKERS AND COLOR BANDS WHEREVER PIPING IS EXPOSED TO VIEW IN OCCUPIED SPACES, MACHINE ROOMS, ACCESSIBLE MAINTENANCE SPACES (SHAFTS, TUNNELS, PLENUMS) AND EXTERIOR NON-CONCEALED LOCATIONS.

PROVIDE PLASTIC LAMINATE OR BRASS VALVE TAG ON EVERY VALVE, COCK AND CONTROL DEVICE IN EACH PLUMBING PIPING SYSTEM; EXCLUDE CHECK VALVES, VALVES WITHIN FACTORY-FABRICATED EQUIPMENT UNITS, PLUMBING FIXTURE FAUCETS, CONVENIENCE AND LAWN-WATERING HOSE BIBBS, AND SHUT-OFF VALVES AT PLUMBING FIXTURES AND SIMILAR ROUGH-IN CONNECTIONS OF END-USE FIXTURES AND UNITS.

PLUMBING SPECIALTIES

CLEANOUTS, FLOOR DRAINS AND ROOF DRAINS SHALL BE BY ONE MANUFACTURER IF POSSIBLE. PROVIDE LONG SWEEP FITTINGS FOR CLEANOUT EXTENSIONS; SHORT SWEEPS AT START OF RUNS OR CHANGE IN DIRECTION AND COMBINATION WYE AND EIGHT BEND FITTINGS IN HORIZONTAL RUNS. INSTALL CLEANOUTS WITH A MINIMUM OF 18" CLEAR ALL AROUND, CONSULT LOCAL CODES FOR OTHER REQUIREMENTS, FOR EASY SYSTEM MAINTENANCE. INSTALL PLUG WITH TEFLON JOINT COMPOUND.

FLOOR CLEANOUTS: INSTALL CLEANOUTS AT POINTS AS NOTED ON THE DRAWINGS, AT THE BUILDING EXIT; AT A MINIMUM OF EVERY 50 FEET IN HORIZONTAL SOIL AND WASTE LINES; AND AT TURNS OF PIPE GREATER THAN 45 DEGREES CLEANOUTS SHALL BE FULL SIZE OF THE PIPE UP TO 4", AND 4" SIZE FOR PIPES LARGER THAN 4". DETERMINE THE TYPE OF FLOOR COVERING TO BE USED AT EACH FLOOR CLEANOUT LOCATION AND PROVIDE TOP WITH VARIATIONS SUITABLE FOR FLOOR COVERING (CARPET MARKERS, RECESSED FOR TILE AND SCORIATED FOR UNFINISHED FLOOR). ROUGH-IN AND INSTALL EACH FLOOR CLEANOUT FLUSH WITH THE FINISHED FLOOR CONSTRUCTION.

EXTERIOR CLEANOUTS: INSTALL CLEANOUTS AT POINTS AS NOTED ON THE DRAWINGS, AT THE BUILDING EXIT; AT A MINIMUM OF EVERY 100 FEET IN HORIZONTAL SOIL, WASTE AND STORM SERVICE LINES. EMBED EACH EXTERIOR CLEANOUT IN AN 18" X 18" X 8" BLOCK OF CONCRETE, FLUSH WITH FINISHED GRADE.

WALL CLEANOUTS: INSTALL WALL CLEANOUTS AT POINTS AS NOTED ON THE DRAWINGS; AT THE FOOT OF EACH SOIL, WASTE OR INTERIOR DOWNSPOUT STACK; AT HORIZONTAL SOIL AND WASTE BRANCHES LONGER THAN FIVE FEET NOT SERVED BY A FLOOR CLEANOUT; CONSULT LOCAL CODES FOR INSTALLATION AT SPECIFIC FIXTURE TYPES. INSTALL WALL CLEANOUTS ABOVE THE FLOOD RIM OF THE FIXTURE SERVED WITHIN FOUR FEET OF THE FLOOR AND INSTALL EXTENSIONS FROM THE CLEANOUT TEE TO THE WALL TO LOCATE THE PLUG WITHIN 2" OF THE WALL WHERE REQUIRED. INSTALL CLEANOUTS ON URINALS AND SINKS WHERE REQUIRED BY CODE.

ROOF DRAINS: PROVIDE WITH ROOF SUMP RECEIVER, EXTENSION, SECONDARY FLASHING CLAMPS AND UNDERDECK CLAMP AS REQUIRED; PROVIDE EXPANSION JOINTS WHERE REQUIRED. PROVIDE OVERFLOW ROOF DRAINS WHERE INDICATED ON THE DRAWINGS WITH INLET FLOW LINE 2" ABOVE THE PRIMARY ROOF DRAIN INLET.

VALVES, STRAINERS, AND UNIONS

PLUMBING SYSTEM VALVES SHALL BE CRANE COMPANY OR NIBCO OF MODELS HEREIN SPECIFIED, OR APPROVED EQUAL BY HAMMOND, MILWAUKEE, STOCKHAM OR MUELLER VALVES. VALVES SHALL BE OF THE BEST QUALITY, DESIGNED FOR 125 PSI STEAM WORKING PRESSURE. INSTALL VALVES ON THE HOT AND COLD-WATER LINES AT THE WATER HEATER CONNECTIONS AND OTHER ITEMS OF EQUIPMENT, AT BRANCHES FROM MAINS SERVING GROUPS OF FIXTURES, AND AT OTHER PLACES INDICATED OR REQUIRED BY THE INSTALLATION TO ALLOW EASE OF FUTURE MAINTENANCE.

GATE VALVES: CLASS 125, SIZE 2" AND SMALLER SHALL BE NIBCO #S-113-LF NON-RISING STEM, SOLDERED LEAD FREE BRONZE BODY AND PARTS, WITH WEDGE DISC. GATE VALVES 2-1/2" AND LARGER SHALL BE NIBCO #617-0, O.S. & Y., IRON BODY FLANGED WEDGE GATE WITH BRASS SEATS AND STEM.

BALL VALVES (MAY BE USED IN LIEU OF GATE VALVES UP TO 2"): 2" AND SMALLER, NIBCO #S-685-80-LF; TWO PIECE LEAD FREE BRONZE BODY, WITH SOLDERED ENDS, CHROME PLATED BRONZE BALL WITH CONVENTIONAL PORT, 600 PSI, BLOW-OUT PROOF STEM.

GLOBE VALVES: GLOBE VALVES SHALL BE CLASS 125. GLOBE VALVES 2" AND SMALLER SHALL BE NIBCO #T-211 OR MILWAUKEE #UP1502, SCREWED LEAD FREE BRONZE BODY AND BRASS DISC. GLOBE VALVES 2-1/2" AND LARGER SHALL BE CRANE #351 IRON BODY FLANGED VALVE WITH BRASS TRIM.

CHECK VALVES: CHECK VALVES SHALL BE CLASS 125. CHECK VALVES FOR INSTALLATION IN HORIZONTAL PIPE RUNS SHALL BE OF THE "SWING DISC" DESIGN. HORIZONTAL CHECK VALVES 2" AND SMALLER SHALL BE MILWAUKEE #UP1509 OR NIBCO #S-413-Y-LF WITH SOLDERED LEAD FREE BRONZE BODY AND BRONZE DISC. HORIZONTAL CHECK VALVES 2-1/2" AND LARGER SHALL BE CRANE #373 OR NIBCO F-918 IRON BODY FLANGED VALVE WITH BRASS TRIM. CHECK VALVES FOR INSTALLATION IN VERTICAL PIPE RUNS SHALL BE OF THE "VERTICAL LIFT" SPRING LOADED DESIGN. VERTICAL CHECK VALVES 2" AND SMALLER SHALL BE MILWAUKEE #UP1548T OR NIBCO #S-480-Y-LF WITH SOLDERED LEAD FREE BRONZE BODY AND BRONZE DISC. VERTICAL CHECK VALVES 3" AND LARGER SHALL BE CENTER GUIDED.

GAS COCKS: GAS COCKS 2" AND SMALLER SHALL BE HOMESTEAD #611, SCREWED IRON BODY WITH BRASS TRIM AND FLAT HEAD. GAS COCKS 2-1/2" AND LARGER SHALL BE HOMESTEAD #612 FLANGED SEMI-STEEL BODY WITH IRON TRIM AND SQUARE HEAD. APPROVED EQUAL ARE FLOWSERVE-NORDSTROM OR RM ENERGY SYSTEMS "HERCULES".

GAS LINE PRESSURE REGULATORS: GAS LINE PRESSURE REGULATORS SHALL BE BY AMERICAN METER COMPANY, FISHER, ITRON, MAXITROL OR SENSUS WITH CAPACITIES AS SCHEDULED ON THE DRAWINGS. REGULATORS SHALL BE SINGLE STAGE, STEEL JACKETED, CORROSION-RESISTANT TYPE WITH INTERSTITIAL RELIEF VALVE WITH ATMOSPHERIC VENT, ELEVATION COMPENSATOR; WITH THREADED ENDS, FOR INLET AND OUTLET.

STRAINERS: STRAINERS 2" AND SMALLER SHALL BE WATTS #LFS777SI WITH SOLDERED LEAD FREE BRONZE, BRASS CAP AND MONEL 40 MESH SCREEN. STRAINERS 2-1/2" AND LARGER SHALL BE WATTS #77F-DI-FDA-125 WITH FLANGED IRON BODY WITH FUSED FDA EPOXY COATING, BOLTED IRON CAP AND STAINLESS STEEL SCREEN WITH 1/16" PERFORATIONS. STRAINERS SIZE 2-1/2" AND LARGER SHALL HAVE A 1" BLOW-OFF LINE WITH A 1" GATE VALVE CONNECTED TO THE BLOW-OFF CONNECTION AND SHALL BE EXTENDED TO THE NEAREST FLOOR DRAIN.

UNIONS: FERROUS UNIONS SHALL BE CRANE OR EQUAL, COMBINATION IRON AND BRASS, GROUND JOINT WITH SCREWED ENDS. COPPER UNIONS SHALL BE STREAMLINE OR EQUAL, CAST BRONZE SWEAT TYPE WITH GROUND JOINT. FERROUS TO COPPER UNIONS SHALL BE UNIVERSAL CONTROLS OR EQUAL, DIELECTRIC TYPE WITH THREADED NYLON INSERT.

FLOW CONTROL VALVES: FOR INSTALLATION IN HOT WATER RECIRCULATION LINES, SHALL BE BELL & GOSSETT #CB "CIRCUIT SETTER" LEAD FREE OR EQUAL BY ARMSTRONG OR NIBCO WITH BRONZE BODY, BRASS BALL, TFE SEAT RINGS, CALIBRATED ORIFICE, MEMORY STOP, READOUT VALVES WITH INTERNAL CHECK VALVES, DRAIN PORT AND SWEAT CONNECTIONS. PROVIDE BALL VALVE, STRAINER AND CHECK VALVE UPSTREAM AND UNION AND BALL VALVE DOWNSTREAM OF EACH FLOW CONTROL VALVE. SET THE FLOW CONTROL VALVES TO THE FLOWS AS INDICATED ON THE DRAWINGS.

REGISTRATION SEAL
035265
ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

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TITLE:
PLUMBING SPECIFICATIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
CDH
CHECKED BY:
ACR

SHEET NO.
P4.0

ELECTRICAL SYMBOLS LEGEND

SYMBOLS	DESCRIPTION
A	FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER.
NL ◢	NIGHT LIGHT – NOT SWITCHED
○ ⊢○	CEILING OR WALL MOUNTED FIXTURE
Ⓙ	JUNCTION BOX
⊗ ⊗	SINGLE/DOUBLE FACED EXIT SIGN – NOT SWITCHED
↔	DOUBLE HEAD EMERGENCY LIGHT WITH BATTERY BACK UP.
S	SINGLE POLE SWITCH, +48" A.F.F.
S_3	THREE WAY SWITCH, +48" A.F.F.
S_a	OUTLET CONTROL INDICATOR
S_D	DIMMER SWITCH
S_{OS}	OCCUPANCY SENSOR SWITCH
S_T	THERMAL OVERLOAD SWITCH
⦶	DUPLEX RECEPTACLE, +18" A.F.F.
⌽	SIMPLEX RECEPTACLE, +18" A.F.F.
⦶	DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT
⊕	FOURPLEX RECEPTACLE, +18" A.F.F.
◐	HALF SWITCHED DUPLEX RECEPTACLE
⦶▽▼	POWER/PHONE/DATA FLUSH FLOOR OUTLET
⦶	250 VOLT RECEPTACLE PER UNIT REQUIREMENTS
▽	600 VOLT RECEPTACLE PER UNIT REQUIREMENTS
▼	TELEPHONE/DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4"C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, +18" A.F.F.
⊽	TELEVISION OUTLET PLASTER RING AT +18" A.F.F. (U.N.O.) HUBBELL COVERPLATE. 3/4"C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
⌒	CONDUIT BELOW FLOOR OR UNDERGROUND
⌒	CONDUIT IN WALL OR ABOVE CEILING
LA 1,3 ⌒	HOMERUN TO PANEL (SEE GROUNDING NOTE)
⊘	MOTOR CONNECTION
□	DISCONNECT SWITCH
⊠	FUSED DISCONNECT
⟨F⟩D	DUCT SMOKE DETECTOR
⏚	LIGHTNING ARRESTER

*** ALL SYMBOLS ON LEGEND MAY NOT APPLY TO DRAWING(S). ***

ABBREVIATIONS

E	EXISTING LIGHT OR DEVICE TO REMAIN
ER	EXISTING LIGHT OR DEVICE TO BE REMOVED OR RELOCATED
R	RELOCATED LIGHT OR DEVICE
N	NEW LIGHT OR DEVICE
A.F.F.	ABOVE FINISHED FLOOR
C	CONDUIT
E.C.	EMPTY CONDUIT WITH PULLWIRE
E.D.F.	ELECTRICAL DRINKING FOUNTAIN.
GND	GROUND
MLO	MAIN LUGS ONLY
MCB	MAIN CIRCUIT BREAKER
S.E.S.	SERVICE ENTRANCE SECTION
WP	WEATHER PROOF
WR	WATER RESISTANT
GFI/GFCI	GROUND-FAULT CIRCUIT INTERRUPTER
U.N.O.	UNLESS NOTED OTHERWISE
©	SECURITY CAMERA
Ⓢ	SPEAKER
S.U.S.E	SUITABLE FOR USE AS SERVICE EQUIPMENT

SCOPE OF WORK

PROVIDE LIGHTING & POWER FOR A 664 SQ. FT. COFFEE SHOP UTILIZING UTILITY COMPANY TRANSFORMER. TO FEED A NEW 400 AMP SERVICE. SPECIFY A NEW 400 AMP PANEL TO FEED NEW EQUIPMENT THROUGH OUT THE PROPERTY SITE & TENANT SPACE FOR PERMIT.

ELECTRICAL NOTES

A. PRIOR TO SUBMITTING BID, CONTRACTOR SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH THE CONTRACTOR WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.

B. THE CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.

C. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHTING FIXTURES. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.

D. PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.

E. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.

F. ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 3/4"C. FOR POWER AND 1"C. FOR DATA. RACEWAYS RUN ACROSS ROOF SHALL BE MINIMUM 4" ABOVE ROOF.

G. BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. EXTERIOR WIRING SHALL BE THWN-2. PANEL FEEDERS. SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12. PER THE LATEST NEC CODE ADOPTED BY THE CITY, A SEPARATE NEUTRALS ARE TO BE PROVIDED FOR EACH CIRCUIT OR PROVIDE MULTI-POLE HANDLE TIE FOR EACH MULTI-WIRE CIRCUIT

H. PROVIDE CODE SIZED GROUNDING CONDUCTOR WIRE IN ALL CONDUITS.

I. ALL ELECTRICAL EQUIPMENT SHALL BE NEW, U.L. APPROVED AND COMMERCIAL GRADE.

J. ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY, LATEST ADOPTED NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.

K. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE ONE (1) SET OF COMPLETE CONSTRUCTION DRAWINGS.

L. PROVIDE NEW PANEL DIRECTORIES INDICATING SPECIFIC CIRCUIT INFORMATION TO DISTINGUISH EACH CIRCUIT FROM ANY OTHER PER NEC.

M. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION OF DEVICES, WIRE & CONDUIT. WHERE THESE ITEMS ARE NO LONGER USED ALL UNUSED WIRE SHALL BE REMOVED BACK TO THE PANEL. ANY DOWNSTREAM EQUIPMENT TO REMAIN IN USE SHALL BE RECONNECTED.

SPECIFICATIONS

16001 SCOPE OF WORK

THE WORK DESCRIBED UNDER THIS SECTION OF THE SPECIFICATIONS INCLUDES FURNISHING ALL MATERIAL LABOR AND EQUIPMENT, EXCEPT AS FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, TO INSTALL ALL ELECTRICAL WORK AS SHOWN IN THE DRAWINGS AND AS SPECIFIED AND REFERRED TO HEREIN.

.01 EXAMINATION OF THE PREMISES

THE CONTRACTOR WILL BE HELD TO HAVE EXAMINED THE PREMISES AND SATISFIED HIMSELF AS TO EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS PART OF THE WORK OR THAT WHICH WILL IN ANY MANNER AFFECT THE WORK UNDER HIS CONTRACT.

PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK , VERIFY THE DIMENSIONS AT THE SITE; CORRECTNESS OF DIMENSIONS WILL BE THIS CONTRACTORS RESPONSIBILITY. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. IMMEDIATELY REPORT DIFFERENCES TO THE ARCHITECT AND DO NOT PROCEED WITH WORK UNTIL ARCHITECT RENDERS HIS DECISION.

.02 REGULATIONS, PERMITS, AND INSPECTIONS

REGULATIONS: COMPLY WITH ALL APPLICABLE CODES, RULES , AND REGULATIONS. ALL MATERIALS, EQUIPMENT, AND WORK MUST COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND THE APPLICABLE MUNICIPAL AND LIFE SAFER CODES.

PERMITS: OBTAIN AND PAY FOR ALL PERMITS, FEES , AND LICENSES REQUIRED TO PERFORM WORK DESCRIBED HEREIN.

INSPECTIONS: ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES. PRIOR TO FINAL APPROVAL, FURNISH THE ARCHITECT WITH CERTIFICATES OF INSPECTION AND APPROVALS BY THE LOCAL AUTHORITIES.

.03 WORK LISTED ELSEWHERE

FURNISHING AND INSTALLING MOTOR CONTROLS UNLESS IN MOTOR CONTROL CENTER. FURNISHING HOLE CUTTING IN PRE CAST STRUCTURAL CONCRETE.

.04 EXISTING SERVICES AND REMODEL AREAS

MAINTAIN ALL SERVICES, POWER, SOUND, TELEPHONE, ETC. TO EXISTING BUILDINGS OR AREAS. INTERRUPTIONS OF SERVICES REQUIRED FOR "CUT-OVER" OR CONNECTIONS OF NEW CABLES, ETC. SHALL BE DONE AT THE CONVIENCE OF THE TENANT AND BE APPROVED IN WRITING BY THE TENANT PRIOR TO THE INTERRUPTION.

.05 TEMPORARY POWER

PROVIDE TEMPORARY POWER AS REQUIRED BY THE GENERAL CONTRACTOR. THIS SERVICE SHALL BE MAINTAINED THROUGHOUT THE ENTIRE JOB AS THE WORK PROGRESSES.

PROVIDE OUTLETS AT CONVENIENT POINTS AND IN SUFFICIENT NUMBERS SO THAT NO EXTENSION CORD IS OVER 50 FEET IN LENGTH IS REQUIRED TO REACH ANY WORK POINT. MAINTAIN GENERAL LIGHTING IN CORRIDORS, STAIRS, BASEMENT AND OTHER AREAS NOT RECEIVING DAYLIGHT REQUIRED FOR SAFETY. REMOVE TEMPORARY WORK AS RAPIDLY AS REQUIRED FOR OR ALLOWED BY INSTALLATION OF PERMANENT WORK.

16420 SERVICE ENTRANCE EQUIPMENT

SERVICE ENTRANCE EQUIPMENT TO HAVE SHORT CIRCUIT CURRENT RATING EQUAL TO OR GREATER THAN AVAILABLE FAULT CURRENT, AND MEET ALL THE REQUIREMENTS OF U.L. STANDARD NO. 891. OUTDOOR GEAR TO BE NEMA 3R. ALL SWITCHGEAR TO BE FREE STANDING, UNLESS OTHERWISE INDICATED, MOUNTED ON 4" CONCRETE PAD EXTENDING A MINIMUM OF 6 INCHES IN FRONT OF EQUIPMENT.

END SECTION SHALL BE PROVIDED WITH FULL CAPACITY THROUGH BUS FOR FUTURE EXTENSION TO FUTURE SECTIONS.

16425 SWITCHBOARDS

SWITCHBOARDS TO BE SQUARED D TYPE QMB OR EQUAL, FREE STANDING, 90" HIGH, MIN. 14" DEEP WITH TYPE QMB SWITCHES. END SECTION WITH FULL CAPACITY THRU – BUS FOR FUTURE SECTION. MOUNT ON 4" CONCRETE PAD EXTENDING A MINIMUM OF 6 INCHES IN FRONT OF SWITCHBOARDS.

16440 SAFETY SWITCHES

SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE. WHERE OUTSIDE THE BUILDING, THE SWITCHES SHALL BE RAINTIGHT TYPE NEMA 3R. ALL SWITCHES SHALL BE LOCKABLE.

16471 PANELS

PANEL TYPE AS INDICATED ON THE DRAWINGS. NEW FLUSH PANELS TO HAVE (3) 3/4" EMPTY CONDUITS STUBBED INTO ACCESSIBLE CEILING SPACE.

PROVIDED A GROUND BUS IN ALL PANELS INCLUDING EXISTING PANELS WHEREIN WORK IS DONE OR LOADS ADDED. CHECK ALL BREAKERS. REPLACE DEFECTIVE BREAKERS IN AFOREMENTIONED PANELS.

VERIFY THE INTERRUPTING CAPACITY OF ALL BREAKERS WITH REQUIREMENT INDICATED ON THE DRAWINGS. REPLACE EXISTING BREAKERS NOT MEETING REQUIRED A.I.C. RATING.

16461 DRY TYPE TRANSFORMERS (IF ANY)

SHALL BE EQUAL TO SQUARE D, 150 DEGREE TEMPERATURE RISE; SERIES 7410/7411. CLEARANCE ALL AROUND PER MANUFACTURES RECOMMENDATION. PROVIDE ISOLATION PADS.

16510 LIGHTING FIXTURES

FLUORESCENT FIXTURES SHALL BE FURNISHED WITH UL LISTED HIGH POWER-FACTOR BALLASTS. CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS AND SHALL PROVIDE PLASTER OR DRY WALL FRAMES AS REQUIRED.

RECESSED INCANDESCENT FIXTURES AND FLUORESCENT DOWN LIGHTS SHALL BE LISTED FOR USE IN INSULATED CEILING SPACES, AND SHALL HAVE ANY REQUIRED FEED-THRU BOXES.

LAMPS FOR INCANDESCENT FIXTURES SHALL BE 1000 HOUR INSIDE FROSTED 130 VOLT, NOT EXCEEDING THE WATTAGE FOR WHICH THE FIXTURE IS LABELED AND SHALL BE OF THE TYPE RECOMMENDED BY THE FIXTURE MANUFACTURE. LAMPS SHALL BE OF THE SAME MANUFACTURE AS FLUORESCENT.

ALL FIXTURES SHALL BE PROPERLY SUPPORTED FROM CEILING STRUCTURE, NOT FROM GYPBOARD OR PLASTER. SURFACE OR PENDANT MOUNT FLUORESCENT FIXTURES SHALL BE BOLTED TOGETHER FOR PROPER ALIGNMENT AND BONDING.

ALL FLUORESCENT FIXTURES RECESSED IN THE CEILING OR IN A GRID CEILING SHALL BE PROVIDED WITH EARTHQUAKE CLIPS AS REQUIRED BY CODE.

16195 NAME PLATES

PROVIDE CONTRAST PLASTIC EMBOSSING TAPE, ADHESIVE BAKED NAMEPLATES FOR ALL STARTERS AND DISCONNECT SWITCHES.

PROVIDE LAMICOID NAMEPLATES FOR ALL DISTRIBUTION SWITCHES, BREAKERS, LIGHTING AND POWER PANELS INDICATING ITEMS SERVED. SIZE OF LETTERS SHALL BE MINIMUM OF 3/16" HIGH.

16120 WIRE

ALL WIRE AND CABLE SHALL BE NEW, 600 VOLT INSULATED, OF TYPES SPECIFIED BELOW. ALL WIRE AND CABLE SHALL BEAR THE UNDERWRITERS' LABEL AND SHALL BE BROUGHT TO THE JOB IN UNBROKEN PACKAGES. WIRE SHALL BE COLOR CODED PER NEC.

BRANCH CIRCUIT WIRING SHALL BE A MINIMUM #12 AWG COPPER

WIRE AND CABLE NO. 4 AWG AND SMALLER SHALL BE TYPE THW OR THHN/THWN

WIRE AND CABLE LARGER THAN NO. 4 AWG SHALL BE TYPE XHHW.

ALL AIR CONDITIONING FEEDERS SHALL BE TYPE XHHW.

ALL WIRING IN PANELBOARDS, SWITCHBOARDS, AND GUTTERS SHALL BE NEATLY ARRANGED. WIRE SHALL BE HELD BUNDLED BY TY-RAPS. WIRES SHALL BE CONNECTED TO CIRCUIT BREAKERS, SWITCHES AND OTHER DEVICES PERPENDICULAR TO TERMINAL LUGS.

ALL WIRING IN MANHOLES, PULL BOXES OR JUNCTION BOXES OVER 12 INCHES IN LENGTH SHALL BE BUNDLED IN A NEAT AND ORDERLY MANNER.

AFTER COMPLETION OF UNDERGROUND SPLICES AND SPLICES IN MANHOLES, SEAL SPLICES WITH SCOTCHCOAT #82 COATING OR EQUAL TO MOISTURE PROOF CABLES.

LEAVE NO LESS THAN 6 INCHES OF WIRE AT EACH OUTLET FOR CONNECTION TO LIGHTING FIXTURES, SWITCHES, RECEPTACLES AND OTHER PIECES OF EQUIPMENT. WHERE WIRES FEED THROUGH AN OUTLET OR JUNCTION BOX, NEATLY TUCK 6 INCH LOOP IN BOTTOM OF BOX.

LIGHTING AND POWER CIRCUITS SHALL BE IDENTIFIED BY PANEL LETTER AND CIRCUIT NUMBER WITH BRADY WRAPAROUND CLOTH WIRE MARKERS AT ALL TERMINATIONS AND JUNCTIONS.

ALL BRANCH CIRCUIT AND FEEDER CONDUCTORS SHALL BE COLOR-CODED AS FOLLOWS:

FOR ALL 120 V TO GROUND CIRCUITS;
PHASE CONDUCTORS – BLACK, RED, BLUE
NEUTRAL CONDUCTOR – WHITE

FOR ALL 277 V TO GROUND CIRCUITS;
PHASE CONDUCTORS – BROWN, ORANGE, YELLOW
NEUTRAL CONDUCTORS – GRAY

LARGE FEEDER CONDUCTORS SHALL BE CODED BY COLORED TAPE WRAPPED AROUND THE CONDUCTOR AT EACH PULLBOX, TERMINATION POINT AND SPLICE.

ALL CONNECTIONS TO CIRCUIT BREAKERS AND SWITCHES AND ALL JOINTS IN WIRES SHALL BE MADE AS NOTED BELOW:

> CONNECTIONS TO CIRCUIT BREAKERS AND SWITCHES: NO. 12 WIRE SHALL BE FORMED AROUND BINDING POST OR SCREW. NO. 10 AND NO. 8 WIRE – BUCHANAN, "TERMEND" OR APPROVED EQUAL, LOCKING TONGUE LUG. NO. 6 WIRE AND LARGER – BURNDY "QUICK-LUG" TYPE QDA, OR APPROVED EQUAL, ROUND FLANGE SOLDERLESS LUG.
>
> FIXTURE CONNECTIONS: CIRCUIT WIRING CONNECTIONS TO FIXTURE WIRE SHALL BE MADE WITH PRESSURE-TYPE SOLDERLESS CONNECTORS – BUCHANAN, SCOTCHLOC OR WING NUT OR APPROVED EQUAL, COMPLETE WITH INSULATOR AND SECURITY RING.
>
> JOINTS IN WIRES: NO. 6 WIRE AND LARGER – BURNDY OR APPROVED EQUAL, NO. 8 WIRE AND SMALLER – BUCHANAN, SCOTCHLOC, WING NUT, OR EQUAL, PRESSURE-TYPE SOLDERLESS CONNECTORS COMPLETE WITH INSULATOR AND SECURITY RING.

CONTROL WIRING AND ALL OTHER STANDARD WIRING TO SCREW CONNECTIONS SHALL BE PROVIDED WITH T AND B STA-KON TERMINALS.

SOLID CONDUCTORS SHALL LOOP TIGHTLY AND COMPLETELY AROUND TERMINAL SCREWS ON ALL WIRING DEVICES.

UNINSULATED SOLDERLESS CONNECTORS TO BE INSULATED AS FOLLOWS: TAPE WITH A COVERING OF RUBBER TAPE, EQUAL IN THICKNESS TO THE INSULATION. THIS SHALL BE FOLLOWED WITH AN OUTER COVERING OF FRICTION TAPE IN TWO LAYERS. ONE COAT OF WATERPROOF PAINT SHALL BE APPLIED WHEN SUBJECT TO MOISTURE.

WIRE AND CABLE TO BE PULLED INTO CONDUITS WITHOUT STRAIN, USE POWDERED SOAPSTONE, MINERALAC, OR OTHER APPROVED LUBRICANT.

WIRE SHALL NOT BE RE-PULLED IF SAME HAS BEEN PULLED OUT OF A CONDUIT RUN. NO CONDUCTOR SHALL BE PULLED INTO CONDUIT UNTIL CONDUIT SYSTEM IS COMPLETE, INCLUDING JUNCTION BOXES, PULL BOXES, ETC., WITHOUT PERMISSION OF ARCHITECT.

16110 CONDUIT

IN GENERAL, ELECTRICAL METALLIC TUBING SHALL BE USED FOR ALL WIRING EXCEPT IN OR UNDER CONCRETE, EARTH, OR FILL. ELECTRICAL METALLIC TUBING MAY BE USED IN FURRED SPACES, WOOD FRAME WALLS WHERE CONDUITS DO NOT EXCEED 2 1/2" IN SIZE, BRICK, BLOCK, TILE, AND CONCRETE WALLS ARE NOT CONSIDERED HOLLOW AND RIGID CONDUIT SHALL BE PROVIDED FOR THESE AREAS.

.01 RIGID STEEL CONDUITS OR INTERMEDIATE METAL CONDUITS SHALL BE USED IN CONCRETE SLABS, IN SOLID GROUTED CELLS OR CONCRETE MASONRY WALLS, BRICK, OR TILE WALLS, FOR ALL EXPOSED CONDUIT OUTSIDE OF THE BUILDING, AND FOR CONDUITS EXCEEDING 2 1/2" IN SIZE. IN ADDITION ALL WIRING IN OR UNDER CONCRETE, EARTH, OR FILL SHALL BE RIGID GALVANIZED OR SHERARDIZED STEEL. RIGID CONDUIT UNDER CONCRETE, IN EARTH , OR FILL SHALL BE COATED WITH POLYETHYLENE TAPE, SCOTCH NO. 50 OR APPROVED EQUAL, SPIRAL WRAPPED 1/2" LAPPED TO AN OVERALL THICKNESS OF NOT LESS THAN 15 MILS.

.02 USE FLEXIBLE METAL CONDUITS FOR RECESSED FIXTURES, MOTOR, TRANSFORMER AND OTHER EQUIPMENT SUBJECT TO MOVEMENT. USE LIQUID TIGHT TYPE WHERE EXTERIOR OR SUBJECT TO LIQUID SPRAY OR DRIPPING.

.03 UL LISTED SCHEDULE 40 PVC CONDUIT MAY BE USED FOR UNDERGROUND RUNS. EXPANSION JOINTS AT 75 FEET ON CENTER OR AS REQUIRED BY MFR. ALL BENDS SHALL BE MANUFACTURED.

.04 NON-METALLIC CONDUIT INSTALLED BELOW CONCRETE FLOORS MAY BE INSTALLED IN THE FILL, HOWEVER, A PORTION OF THE CONCRETE FILL MATERIAL MUST BE PLACED AROUND THE CONDUIT FOR RIGID SUPPORT. NON-METALLIC CONDUIT OUTSIDE THE FILL SHALL BE BURIED A MINIMUM OF 18" BELOW GRADE. NON-METALLIC CONDUIT SHALL BE PROVIDED WITH CODE SIZE COPPER BOND WIRE INSIDE THE CONDUIT FOR ELECTRICAL CONTINUITY, AND SHALL BE INSTALLED IN ACCORDANCE TO NEC ARTICLE NO. 250. WRAPPED RIGID STEEL ELBOWS SHALL BE USED FOR RISERS ON PVC CONDUIT RUNS AND SHALL BE GROUNDED.

CONDUIT PLACED IN A CONCRETE SLAB SHALL BE LARGER THAN 3/4" TRADE SIZE DIAMETER AND CONDUIT SMALLER THAN 3/4" SHALL BE USED FOR UNDERGROUND CIRCUITS. CONDUIT SHALL HAVE MINIMUM 1" CONCRETE COVER. NO CONDUIT SHALL BE IMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, EXCEPT FOR LOCAL OFFSETS. NO CONDUIT SHALL BE PLACED BETWEEN THE REINFORCINGSTEEL AND THE BOTTOM OF THE SLAB.

ALL CONDUIT UNDER CONCRETE DRIVES OR ANY LOCATION WHERE SUBJECT TO DAMAGE BY HEAVY EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 24" BELOW GRADE OR 18" BELOW GRADE ENCASED IN A 3" THICK CONCRETE ENVELOPE.

TRENCHING, BACKFILLING, AND CONCRETE WORK FOR ELECTRICAL WORK SHALL BE DONE UNDER THIS SECTION AND AS REQUIRED BY LOCAL AND/OR RULING AUTHORITIES AND REGULATING AGENCIES.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SLEEVES AND CHASES REQUIRED WHERE CONDUITS PASS THROUGH FLOORS OR WALLS, AND SHALL SEAL ALL OPENING AND FINISH TO MATCH ADJACENT SURFACES. WHERE EXPOSED CONDUITS PASS THROUGH WALLS, FLOORS, OR CEILINGS, ESCUTCHEON PLATES SHALL BE PROVIDED.

ALL NECESSARY SERVICES AND BLOCKOUTS SHALL BE PROVIDED.

ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL WIRE.

.05 RIGID CONDUIT FITTINGS

PROVIDE DOUBLE LOCKNUTS AND BUSHINGS EXCEPT AT THREADED HUBS.

.06 EMT OR FLEX FITTINGS

FOR EMT, OR MALLEABLE IRON, COMPRESSION TYPE ONLY.
FOR FLEXIBLE CONDUIT, COMPRESSION OR CLAMP TYPE CONNECTORS SHALL HAVE INSULATED THREADS.

.07 MC CABLE

METAL CLAD CABLE MAY BE USED IN LIEU OF EMT CONDUIT AND WIRE FOR BRANCH CIRCUIT WIRING IF ACCEPTABLE TO AUTHORITIES.

16140 WIRING DEVICES

RECEPTACLES SHALL BE FURNISHED AS INDICATED BELOW:

⦶	20 AMP 120 VOLT DUPLEX	HUBBELL #5362 W/#P8 COVERPLATE
WP ⦶	20 AMP 120 VOLT DUPLEX, WEATHERPROOF	HUBBELL #5362 W/TAYMAC #10110 COVERPLATE
GFI ⦶	20 AMP 120 VOLT DUPLEX, GROUND FAULT	HUBBELL # GF-5362 W/#PJ26 COVERPLATE
⊕	20 AMP 120 VOLT FOURPLEX	HUBBELL (2)#5352 W/#P82 COVERPLATE
IG ⦶	20 AMP 120 VOLT DUPLEX, ISOLATED GROUND	HUBBELL # 1G-5362 W/#P8 COVERPLATE

WHEN SURFACE WEATHERPROOF MOUNTING IS REQUIRED, RECEPTACLES SHALL BE MOUNTED IN AN FS CONDUIT BOX.

ELEVATION OF EACH RECEPTACLE SHALL BE AT THE FLOOR PLUS 18" TO CENTER UNLESS OTHERWISE NOTED.

ALL SWITCHES SHALL BE FURNISHED IN ACCORDANCE WITH THE FOLLOWING TABLE. SWITCHES SHALL BE OF THE SAME MANUFACTURER AS THE RECEPTACLES FURNISHED.

\$	20 AMP 1 POLE	HUBBELL #1221-1 WITH #P1 COVERPLATE
$\$_3$	20 AMP 3 POLE	HUBBELL #1223-1 WITH #P1 COVERPLATE

COVERPLATES FOR RECEPTACLES, SWITCHES AND OUTLETS SHALL GENERALLY BE PLASTIC, WITH COLOR AS SELECTED BY THE ARCHITECT.

16130 BOXES

BOXES IN EXPOSED OR WET LOCATIONS SHALL BE CAST STEEL CONDUIT BODIES. IN CONCEALED LOCATIONS, THEY SHALL BE SHEET STEEL BOXES WITH GALVANIZED OR SHERARDIZED FINISH, NEOPRENE GASKETED, SCREWED COVERS.

SHEET STEEL BOXES SHALL BE STANDARD ONE-PIECE KNOCKOUT BOXES. WHERE OUTLETS ARE INSTALLED IN CONCRETE SLABS, BOXES SHALL BE CONCRETE CAST TYPE BOXES. BOXES SHALL NOT BE LESS THAN 4" IN DIAMETER AND 1-1/2" DEEP. OUTLET BOXES SET IN CONCRETE SHALL BE SET TO HAVE FINAL OPENING FLUSH WITH FINISH SURFACE.

CAST-METAL CONDUIT BODIES SHALL BE CROUSE-HINDS CONDUITS, APPLETON UNILETS, OR APPROVED EQUIVALENT. BOXES SHALL BE ARRANGED WITH THREADED CONNECTORS FOR RIGID CONDUIT. ALL CONDUIT BODIES SHALL HAVE SUITABLE COVERS, WHICH SHALL BE PROVIDED WITH GASKET FOR EXTERIOR AND MOIST LOCATIONS.

> POWER / PHONE FLOOR OUTLETS SHALL BE STEEL CITY #664 WITH # 664CST COVER (VERIFY COLOR), #664-BP PHONE PLATE, #664RP RECEPTACLE PLATE AND 20A DUPLEX RECEPTACLE. PHONE COMPARTMENT TO HAVE 3/4" E.C. TO CEILING SPACE VIA FLOOR / WALL.

OUTLETS SET IN FURRED CEILING AND STUD WALLS SHALL BE ANCHORED TO THE CEILING OR WALL STRUCTURE WITH SUITABLE STEEL STRAPS.

OUTLET BOXES SHALL BE USED AS PULL AND JUNCTION BOXES WHEREVER POSSIBLE AND WHERE REQUIRED. BOXES IN PLASTERED WALLS OR CONCRETE BLOCK WALLS IN FINISHED AREAS AND CEILINGS SHALL HAVE TWO GANG RAISED PLASTER RINGS AND BLANK WALL PLATE. OTHER BOXES SHALL HAVE BLANK COVERS.

WHERE OTHER THAN OUTLET BOXES ARE REQUIRED, PULL AND JUNCTION BOXES SHALL BE CONSTRUCTED OF GALVANIZED STEEL CONFIRMING TO CODE REQUIREMENTS. EXTERIOR BOXES SHALL BE OF WEATHERPROOF CONSTRUCTION AND SHALL BE PROVIDED WITH NEOPRENE COVER GASKETS. BOXES SHALL BE RIGIDLY ATTACHED TO THE STRUCTURE, INDEPENDENT OF ANY CONDUIT SUPPORT.

HANGERS / INSERTS

FURNISH AND INSTALL ALL UNISTRUT, HANGERS, SUPPORTS, ETC. REQUIRED FOR WORK UNDER THIS DIVISION. SUPPORT CONDUIT FROM BUILDING STRUCTURE,NOT FROM CEILING SUPPORTS. BRANCH CIRCUIT CONDUIT 3/4" AND SMALLER MAY BE RUN FROM CEILING SUPPORTS USING SPRING STEEL CLIPS.

CONCRETE, EXCAVATION, FILL, BACKFILL

FURNISH ALL CONCRETE, EXCAVATION, FILL, BACKFILL AND STEEL REQUIRED FOR THIS WORK UNLESS SPECIFICALLY NOTED OTHERWISE.

ALL CONCRETE, FILL, BACKFILL, STEEL, ETC. , WHERE REQUIRED SHALL BE IN STRICT ACCORDANCE WITH SPECIFICATIONS SET UP IN OTHER DIVISIONS OF THE SPECIFICATIONS.

FINAL LOCATION OF SURFACE FEATURES

SHALL BE ACCOMPLISHED IN THE FIELD, SUBJECT TO THE APPROVAL OF THE ARCHITECT. THE LOCATION OF ALL SWITCHES, FIXTURES, PANELS, ETC. AND THEIR PROXIMITY AND RELATIONSHIP TO ALL VISIBLE FEATURES OF EQUIPMENT FURNISHED BY OTHER TRADES, SHALL BE MADE KNOWN TO THE ARCHITECT. IN CASE OF CONFLICT BETWEEN TRADES, OR BETWEEN A TRADE AND THE ARCHITECT, THE DECISION OF THE ARCHITECT SHALL BE FINAL AND HIS INSTRUCTIONS IN THESE MATTERS SHALL BE FOLLOWED BY ALL CONCERNED.

PAINTING

ALL EXPOSED ELECTRICAL EQUIPMENT, CONDUIT, FLUSH PANEL FRONT, TRANSFORMER, SWITCHES, SWITCHBOARDS, PANELS AND SIMILAR ITEMS SHALL BE PAINTED AS SPECIFIED UNDER THE PAINTING SECTION OF THESE SPECIFICATIONS.

CLEANING UP PREMISES

AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH CAUSED BY EMPLOYEES. METAL FLOOR PANS SHALL BE PROVIDED PIPE THREADING MACHINES AND BENCHES AND SHALL BE USED AT ALL TIME TO PREVENT CONCRETE FLOORS BECOMING OIL SOAKED. UPON COMPLETION OF THE JOB, REMOVE ALL DEBRIS, CLEAN ALL SWITCHPLATES, FIXTURES, PANEL TRIMS AND IN GENERAL, LEAVE THE PREMISES IN A CLEAN AND TIDY CONDITION.

ACCEPTABLE MANUFACTURERS

THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE SPECIFICATION GRADE EQUIPMENT IS ACCEPTABLE AS TO MANUFACTURER. SUBSTITUTIONS SHALL NOT CAUSE OR CONTRIBUTE TO CHANGES UNLESS THESE CHANGES ARE APPROVED BY THE ARCHITECT PRIOR TO SUBSTITUTION.

ITEMS. CAREFUL CHECKING MUST BE MADE TO VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES, REQUIREMENTS, SPACE ALLOCATIONS, AND THAT THE WEIGHTS ARE NOT EXCESSIVE.

POWER DISTRIBUTION EQUIPMENT: SQUARE D, SIEMENS, CHALLENGER
SUN VALLEY ELECTRIC

WIRE AND CABLES: GENERAL CABLE, ANACONDA, CAPITOL, CIRCLE AW, GENERAL ELECTRIC, OKONITE, ROME, SIMPLEX, KAISER.

LOCAL WALL SWITCHES, RECEPTACLES, PILOT LIGHTS: PASS AND SEYMOUR, SIERRA, BRYANT, CIRCLE F, GENERAL ELECTRIC, HUBBELL, RUSSELL & STOLL, ARROW-HART.

DEVICE PLATES: HUBBELL, SLATER, PASS AND SEYMOUR, SIERRA, BRYANT, ARROW-HART, LEVITON.

LAMPS: GENERAL ELECTRIC, PHILLIPS, SYLVANIA.

CONDUIT: TRIANGLE, NATIONAL ELECTRIC CO., JONES-MCLAUGHLIN REPUBLIC.

FITTINGS: THOMAS AND BETTS, APPLETON, CROUSE-HINDS.

CAST OUTLET BOXES: CROUSE-HINDS, APPLETON.

BALLASTS: ADVANCE, GENERAL ELECTRIC, JEFFERSON, WESTINGHOUSE, SYLVANIA, UNIVERSAL.

FLOOR BOXES: HUBBELL, LEW STEEL CITY.

OUTLET BOXES: RACO, STEEL CITY, SLATER.

SHOP DRAWINGS

ALL DATA SHALL BE SUBMITTED AT ONE TIME, BOUND AND INDEXED IN AN ORDERLY MANNER. PRIOR TO STARTING THE WORK, SUBMIT TO THE ARCHITECT FOR APPROVAL, SIX (6) SETS OF SHOP DRAWINGS OF SERVICE ENTRANCE SECTION, SWITCHBOARDS, PANELBOARDS, LIGHTING FIXTURES,TRANSFORMERS AND ALL EQUIPMENT TO BE FABRICATED.

FINAL INSPECTION AND TEST

FURNISH ALL METERS, CABLES, CONNECTIONS AND APPARATUS NECESSARY FOR MAKING TESTS.

TEST SYSTEM FOR SHORTS AND GROUNDS. FAULTY WIRING SHALL BE REMOVED AND REPLACED. ANY DEVICE, APPARATUS OR FIXTURE INSTALLED SHOWING SUBSTANDARD PERFORMANCE SHALL BE REMOVED AND REPLACED AS DIRECTED BY THE ARCHITECT.

MEGGER ALL SYSTEM NEUTRALS IN THE PRESENCE OF THE ENGINEER TO INSURE THE NEUTRAL IS NOT GROUNDED WITHIN THE SYSTEM. TEST SHALL BE MADE AFTER ALL BRANCH CIRCUIT WIRING IS INSTALLED AND CONNECTED.

TEST ALL GROUND FAULT RELAYS IN THE PRESENCE OF THE ENGINEER. SET RELAY FOR TIME AND CURRENT RATING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION.

ALL EQUIPMENT RATED AT 1,000 AMPS OR MORE, OR 480 VOLTS SHALL BE TESTED FOR INSULATION BREAKDOWN PRIOR TO ITS BEING ENERGIZED. SUCH EQUIPMENT SHALL WITHSTAND FOR A PERIOD OF ONE MINUTE WITHOUT BREAKDOWN, THE APPLICATIONS OF A 60HZ ALTERNATING POTENTIAL OF 1,000V PLUS TWICE THE RATED VOLTAGE OF THE DEVICE. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.

HIGH POTENTIAL TESTING

THE HIGH-POTENTIAL TESTS SHALL BE MADE BY AN INDEPENDENT COMPANY HIRED BY THE ELECTRICAL CONTRACTOR. COPIES OF THE REPORT CERTIFIED BY A REGISTERED ENGINEER, SHALL BE FORWARDED TO THE ARCHITECT WITHIN TWO (2) WEEKS AFTER THE TESTS ARE PERFORMED.

TESTS SHALL BE PERFORMED IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE. "HI-POT" TEST VOLTAGES AND TIMES SHALL BE COORDINATED WITH AND DETERMINED BY THE OWNER'S REPRESENTATIVE WHEN ANY OTHER CABLE OR DEVICES, OTHER THAN THAT INSTALLED NEW BY ELECTRICAL CONTRACTOR UNDER HIS CONTRACT, IS TO BE INCLUDED IN THE TEST PROCEDURES. CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE, IN WRITING, HIS INTENTIONS TO PERFORM THE HI-POTTING TEST, INCLUDING TIME AND DATE AND THE TESTING AGENCY.

IN GENERAL TESTS SHALL BE CONDUCTED AS FOLLOWS:

> MAXIMUM D.C. VOLTAGES 52.8 KV.
>
> BUILD-UP TIME TO TEST VOLTAGE – ONE (1) MINUTE IN 10 KV DC STEPS WITH RECORDED MILLI-AMP READINGS AT 156, 30 AND 45 SECONDS.
>
> HOLDING TIME AT TEST VOLTAGE – FIVE (5) MINUTES, WITH RECORDED MILLI-AMP READING AT THE END OF EACH MINUTE.
>
> "DECAY TIME" SHALL BE RECORDED WITH SHUT-OFF AT APPROXIMATELY 1-3 KV.

THE "HI-POT" TEST SHALL NOT BE MADE UNTO ANY PORTION OF AN ENERGIZED DEVICE. SUFFICIENT TIME LAG SHALL BE ALLOWED IN THE ORIGINAL REQUEST FOR THE OWNER TO SET UP A DEFINITE PERIOD OF TESTING IF ANY PORTION OF THE OWNER'S DISTRIBUTION SYSTEM IS INVOLVED.

GROUNDING

THE NEUTRAL CONDUCTORS AND ALL OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS AS REQUIRED BY CODE SHALL BE GROUNDED. GROUNDING BUSHING SHALL BE USED AS REQUIRED AND SHALL BE O.Z. INSULATED TYPE BL OR APPROVED EQUAL. NO GROUNDING SHALL BE MADE TO GAS PIPING. WHERE EQUIPMENT OR DEVICES ARE SERVED BY NON-METALLIC DUCTS, ENCLOSURES SHALL BE GROUNDED BY MEANS OF A CODE SIZE BARE OR GREEN INSULATED EQUIPMENT GROUND WIRE INSTALLED IN THE DUCT WITH THE CURRENT CARRYING CONDUCTORS AND BE BONDED SECURELY IN EACH CABINET TERMINATING THE GROUND WIRE. COPPER JUMPERS SHALL BRIDGE FLEXIBLE CONDUIT AND BE INSTALLED IN THE CONDUIT. ALL SERVICE GROUNDS SHALL BE IN ACCORDANCE WITH THE UFER GROUND.

ALL EMT, FLEXIBLE CONDUIT, MC CABLE, OR PVC CONDUIT SHALL BE PROVIDED WITH AN INSULATED GREEN GROUND WIRE.

16700 COMMUNICATIONS

16740 TELEPHONE:

PROVIDE EMPTY CONDUIT OR DUCT WITH "JET-LINE" OR EQUAL POLYPROPOLENE PULL LINE AND TERMINAL MOUNTING BOARD AS SHOWN ON DRAWINGS.

USE LARGE RADIUS RIGID GALVANIZED STEEL CONDUIT FOR BENDS AND OFFSETS IN DUCT RUNS.

ALL CONDUIT RUNS TO TELEPHONE OUTLET BOXES SHALL BE A MINIMUM OF 3/4" AND HAVE A MAXIMUM OF TWO 90 DEGREE BENDS.

TELEPHONE TERMINAL BOARDS SHALL BE 3/4" FIR PLYWOOD, GRADE CC PLUS SIZE AS INDICATED ON DRAWINGS. TELEPHONE TERMINAL CABINETS SHALL HAVE THE DOOR FASTENED TO THE TRIM WITH CONCEALED HINGES AND BE PROVIDED WITH FLUSH TYPE COMBINATION LATCH AND LOCK, KEYED TO MATCH LIGHTING PANELS, CABINETS AND TRIM SHALL BE FACTORY PAINTED WITH TWO FINISH COATS.

PROVIDE ALL NECESSARY MATERIAL AND LABOR REQUIRED BY THE TELEPHONE COMPANY FOR DELIVERING SERVICE TO THE TELEPHONE TERMINAL BOARD. ALL CONDUIT, TRENCHING AND BACKFILL SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE TELEPHONE COMPANY STANDARDS.

16800 DATA:

ALL CONDUIT RUNS TO DATA OUTLET BOXED SHALL BE A MINIMUM OF 3/4" AND HAVE A MAXIMUM OF TWO 90 DEGREE BENDS.

ALL DATA OUTLETS ARE TO HAVE WALL PLATES TO MATCH THE DEVICE PLATE.

GUARANTEE

GUARANTEE ALL MATERIAL, EQUIPMENT, AND WORKMANSHIP FOR ALL SECTIONS UNDER THIS DIVISION IN WRITING TO BE FREE FROM DEFECT OF MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. REPLACE WITHOUT CHARGE, ANY MATERIAL OR EQUIPMENT PROVIDING DEFECTIVE DURING THIS PERIOD. THE GUARANTEE SHALL INCLUDE PERFORMANCE OF THE EQUIPMENT UNDER ALL CONDITIONS OF LOAD, INSTALLING ANY ADDITIONAL ITEMS OF CONTROL AND/OR PROTECTIVE DEVICES AS REQUIRED.

GENERAL ELECTRICAL NOTES
(NOTES APPLY WHETHER KEYED TO PLAN OR NOT)

1 LIGHTING

1a SEE ARCHITECTURAL PLANS AND REFLECTED CEILING PLAN FOR LOCATION OF ALL LIGHT FIXTURES, INCLUDING COVE AND MILL-WORK LIGHTING. WHERE FIXTURE LOCATIONS NEED TO BE CHANGED, COORDINATE WITH ARCHITECT. AVOID ROLL-UP DOORS.

1b BEFORE ORDERING FIXTURES, FIELD VERIFY THAT FIXTURES WILL FIT IN AVAILABLE SPACE.

1c VERIFY LAMP TYPE / COLOR, NUMBER OF LAMPS PER FIXTURE, LENS TYPE, AND VOLTAGE BEFORE ORDERING NEW FIXTURES TO MATCH EXISTING.

2 EMERGENCY LIGHTING

2a UNLESS INDICATED OTHERWISE, FLUORESCENT FIXTURES INDICATED AS EMERGENCY LIGHTS SHALL HAVE A 1 LAMP EMERGENCY LIGHTING FLUORESCENT BALLAST PACK (6 VOLT)

FURNISHED WITH FIXTURE. EMERGENCY LIGHTS/EXIT LIGHTS SHALL BE CIRCUITED TO AN UNSWITCHED LIGHTING CIRCUIT WHEN A NIGHT LIGHT CIRCUIT IS NOT PROVIDED.

2b EXIT SIGNS SHALL HAVE AN INTEGRAL EMERGENCY BATTERY. THEY SHALL BE SURE-LITES PLX 600 RP SERIES, UNIVERSAL EXIT, UNLESS OTHERWISE SPECIFIED. VERIFY THAT NO EXIT SIGN OBSTRUCTS A DOOR SWING OR HEADROOM PRIOR TO INSTALLATION. VERIFY WALL OR CEILING MOUNTING.

2c TWO HEAD EMERGENCY LIGHTS WITH BATTERY SHALL BE SURE-LITES XR-5, 6 VOLTS 27 WATTS CAPACITY FOR 1 1/2 HOURS, TUNGSTEN HALOGEN LAMP, LEAD CALCIUM BATTERY UNLESS OTHERWISE SPECIFIED. VERIFY WALL HEIGHT, LOCATION AND PRIMARY VOLTAGE.

3 POWER

3a WITHIN THE AREA OF THIS PROJECT AND SCOPE OF WORK, ANY DUPLEX RECEPTACLE WITHIN (6) SIX FEET OF A SINK SHALL BE A GROUND FAULT INTERRUPTING RECEPTACLE.

3b ALL DUPLEX RECEPTACLES WITH ISOLATED GROUND SHALL HAVE A MINIMUM #12 GREEN GROUND WIRE RUN TO PANEL GROUND BUS.

3c IN ANY PATIENT CARE AREAS, A #10 GREEN BOND WIRE SHALL BE RUN WITH ALL RECEPTACLE CIRCUITS. PEDIATRIC CARE AREAS SHALL HAVE TAMPERPROOF RECEPTACLES.

3d ANY 15A OR 20A, 120 VOLT LIGHTING OR OUTLET BRANCH CIRCUIT WITH AN OVERALL LENGTH OF 100 FEET OR LONGER SHALL BE #10 WIRE FOR FULL LENGTH OF CIRCUIT EXCEPT AS NOTED OTHERWISE.

3e PROVIDE W.P. DUPLEX OUTLET WITHIN 25 FEET OF ANY EXTERIOR HVAC UNIT.

3f ANY 15A OR 20A 125V RECEPTACLES IN COMMERCIAL GARAGES SHALL BE MOUNTED A MINIMUM OF 18" ABOVE FINISH FLOOR.

OUTLETS ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24".

4 EQUIPMENT (RELATED ELECTRICAL WORK)

4a EQUIPMENT AS REFERRED TO IN THESE NOTES SHALL MEAN ANY HEATING, VENTILATING OR AIR CONDITIONING EQUIPMENT, PLUMBING EQUIPMENT, FOOD SERVICE EQUIPMENT, SHOP EQUIPMENT, MEDICAL EQUIPMENT, LAUNDRY EQUIPMENT, OFFICE EQUIPMENT, MODULAR FURNITURE SYSTEMS, SPECIALTY EQUIPMENT, TENANT OR OWNER FURNISHED EQUIPMENT, OR ANY OTHER EQUIPMENT, SPECIAL OR OTHERWISE THAT IS REFERENCED ON ANY CONTRACT DOCUMENTS FOR THIS PROJECT.

4b A COMPLETE SET OF CONTRACT DOCUMENTS SHALL BE OBTAINED AND REVIEWED BY THE ELECTRICAL CONTRACTOR FOR THE PURPOSE OF STUDYING THE ARCHITECTURAL, HVAC, PLUMBING, FOOD SERVICE, SPECIALTY SYSTEMS DRAWINGS, ETC. THIS SHALL INCLUDE ANY DRAWINGS PREPARED BY VENDORS, SUCH AS KITCHEN EQUIPMENT DRAWINGS, RADIOLOGY EQUIPMENT DRAWINGS, OR MODULAR FURNITURE DRAWINGS, ETC. THE INTENT IS TO DISCOVER ANY WORK THAT IS TO BE DONE BY THE ELECTRICAL CONTRACTOR WHICH MAY NOT BE SHOWN ON THE ELECTRICAL DRAWINGS.

4c IF ANY EQUIPMENT REQUIRES ELECTRICAL POWER IT SHALL BE PROVIDED, INCLUDING ALL CIRCUITRY, OVER CURRENT DEVICES, GROUNDING, RECEPTACLES, HARD WIRING, ROUGH-IN, ETC. ALL SUCH WORK SHALL BE DONE BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFIED OTHERWISE IN THESE CONTRACT DOCUMENTS, AND WHETHER OR NOT IT IS INDICATED IN THE ELECTRICAL DOCUMENTS.

4d PRIOR TO BID, ANY CONFLICT BETWEEN THE ELECTRICAL DOCUMENTS AND ANY OTHER CONTRACT-RELATED DOCUMENTS SHALL BE REPORTED TO THE ELECTRICAL ENGINEER. CONFLICT SHALL BE RESOLVED PRIOR TO BID.

4e FOR EACH ITEM OF EQUIPMENT, VERIFY THE ELECTRICAL CHARACTERISTICS, INCLUDING LOAD, VOLTAGE, AND PHASE: LOAD BALANCING ON PHASES, AND GROUNDING REQUIREMENTS, ETC.

4f VERIFY ROUGH-IN LOCATION, AND FINAL CONNECTION REQUIREMENTS. PROVIDE THE PROPER RECEPTACLES TO MATCH THE CORD CAP FURNISHED WITH THE EQUIPMENT, OR PROVIDE THE APPROPRIATE HARD WIRING.

4g PROVIDE ANY INDICATED OR REQUIRED OVERCURRENT PROTECTION AND/OR DISCONNECT SWITCHES, FUSED FOR THE LOAD OR PER MANUFACTURERS RECOMMENDATIONS.

4h PROVIDE FOR CONNECTION TO ANY CONTROLLER FURNISHED WITH EQUIPMENT.

4i PROVIDE ANY CONTROLLERS, STARTERS, AND CONTROL WIRING NOT INDICATED TO BE PROVIDED BY OTHERS.

4j ANY DROP CORDS SERVING EQUIPMENT SHALL BE PROVIDED WITH KELLEMS STRESS RELIEF GRIPS AT THE JUNCTION BOX CONNECTOR(S).

4k KITCHEN EQUIPMENT SHUT DOWN: WHEN KITCHEN EQUIPMENT IS REQUIRED BY CODE TO BE SHUT DOWN BY A FIRE PROTECTION SYSTEM, SAID EQUIPMENT INCLUDING GAS SOLENOIDS FOR THIS EQUIPMENT, IGNITION CIRCUITS, POWER CIRCUITS, AND HOOD EXHAUST FANS AND RELATED MAKE-UP AIR UNIT(S) SHALL BE CONNECTED TO THE KITCHEN FIRE PROTECTION SYSTEM SHUT DOWN MECHANISM VIA SHUNT TRIP BREAKER(S).

5 HVAC AND PLUMBING SYSTEMS (RELATED ELECTRICAL WORK)

5a ANY CONTROL WIRING AND CONNECTIONS NOT PROVIDED BY THE HVAC CONTRACTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR UNLESS SPECIFIED OTHERWISE.

5b WHERE ONE OR MORE DISCONNECT SWITCH IS REQUIRED FOR AN HVAC UNIT, THEY SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.

5c SEE MECHANICAL DRAWINGS FOR EXACT LOCATION OF ALL DUCTWORK AND DIFFUSERS TO AVOID ANY CONFLICTS WITH LIGHTING FIXTURE LAYOUT. OVERLAY THE LIGHTING AND HVAC PLANS AND REVIEW FOR CONFLICT.

5d PROVIDE FOR CONNECTION AND CIRCUITRY OF ANY DUCT DETECTOR FURNISHED UNDER ANOTHER SECTION. REVIEW MECHANICAL PLANS.

5e PROVIDE ALL INTERLOCK WIRING FOR ANY HVAC EQUIPMENT REQUIRING INTERLOCKING.

6 TELEPHONE / DATA OR SPECIAL SYSTEMS / CONDUIT SYSTEMS

6a WHERE CEILING SPACE IS USED AS AN AIR RETURN PLENUM PROVIDE CONDUIT FROM EACH TELEPHONE, OR DATA OUTLET TO THE SUITE TERMINAL POINT DESIGNATED BY TENANT. ANY PLENUM WIRING NOT IN CONDUIT SHALL BE RATED FOR USE IN PLENUM.

6b SERVICE CONDUIT FOR ELECTRICAL OR OTHER SYSTEMS SHALL BE MARKED AT EACH END AS TO SOURCE AND DESTINATION. (I.E.: SERVICE STATION, FACP, SUITE #, PANEL DESIGNATION, ETC.)

SITE NOTES:

1. REQUIRMENT FOR TRENCHING AND BACKFILL FOR SITE UTILITIES INCLUDING EXACT ROUTING AND POINT OF TERMINATION SHALL BE VERIFIED WITH THE POWER AND TELPHONE COMPANIES. THEIR REQUIRMENTS SHALL BE DEEMED PART OF THIS CONTRACT. AVOID CONFILCT WITH EXISTING SITE UTILITIES.
2. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THIS BID AN ESTIMATED SUM AS AN UNDERGROUND SERVICE ALLOWANCE TO BE PAID TO POWER COMPANY FOR EACH SERVICE.
3. THE EXACT LOCATION, ORIENTATION AND ACCESSIBILTY OF THE ELECTRICAL SERVICE ENTERANCE SHALL BE APPROVED BY THE POWER COMPANY. SERVICE ENTRANCE EQUIPMENT SHOP DRAWINGS SHALL BE APPROVED BY THE POWER COMPANY.
4. THE REQUIRMENTS FOR THE TELEPHONE BOARDS OR CABINETS, AND THEIR LOCATIONS, SERVICE RACEWAYS TO THESE SERVICE POINTS AND ALL CONDUIT REQUIRMENTS BETWEEN TELEPHONE OUTLETS, AND HOMERUN CONDUITS FROM THE OUTLETS TO TERMINAL POINTS SHALL BE VERIFIED WITH THE TELEPHONE COMPANY RESENTATIVE PRIOR TO ROUGH-IN. PROVIDE #6 COPPER BOND FROM THE TELPHONE TERMINAL BOARD TO THE GROUND BUS IN THE SERVICE ENTANCE SETION.
5. MINMUM POINT OF PRESENCE – CABLING IS PROVIDED BY THE TELEPHONE SERVICE COMPANY TO ONE POINT ONLY. THE MAIN TELEPHONE TERMINAL CABINET OR BAORD AT ONE BUILDING ONLY ON THE SITE. ADDITIONAL CABLING WILL BE NECESSARY FROM THE MAIN TELEPHONE CABINET OR BOARD TO HTE OTHER TELEPHONE CABINETS OR BOARDS ON THE SITE. THIS CABLING IS NOT PART OF THIS CONTRACT AND SHALL BE PROVIDED BY THE OWNER TO FACILTATE TELEPHONE SERVICE TO ALL TENANTS ON THE SITE.

REGISTRATION SEAL
035265
ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

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TITLE:
ELECTRICAL SPECIFICATIONS & SYMBOLS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025
ISSUE DATE:
02/18/26
PROJECT NO.
250701
DRAWN BY:
BPA
CHECKED BY:
SAH

SHEET NO.
E0.1

1 ELECTRICAL SITE PLAN
SCALE: 1"=10'-0"

GENERAL NOTES

A. ALL EXTERIOR LIGHT FIXTURES TO COMPLY WITH LOCAL NIGHT SKY ORDINANCE.

B. ALL EXTERIOR LIGHTING AND SIGNAGE TO BE FED WITH #10 CU. U.N.O.

C. ALL EXTERIOR ELECTRICAL EQUIPMENT TO BE NEMA-3R RATED.

D. CONTRACTOR TO COORDINATE EXACT SITE LIGHTING FIXTURE LOCATIONS WITH LANDSCAPE DRAWINGS.

E. ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING PER NEC ARTICLE 410-4. ALL INSTALLATIONS SHALL CONFORM TO NEC ARTICLE 410, ALL SUB ARTICLES.

F. FIRE ALARM EQUIPMENT SHALL BE COORDINATED FOR EXACT LOCATION AND REQUIREMENTS WITH FIRE MARSHALL.

G. ALL PVC CONDUIT MUST HAVE A MINIMUM OF #10 CU. GROUND CONDUCTOR.

H. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND SCHEDULING WITH POWER AND TELEPHONE UTILITY COMPANIES INCLUDING PROVIDING (2) COMPLETE SETS OF DRAWINGS TO EACH COMPANY. ALL WORK SHALL BE INSTALLED PER EACH UTILITY COMPANIES FINAL DESIGN DRAWINGS.

I. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL EXTERIOR LIGHT FIXTURES WITH ARCHITECTURAL DRAWINGS.

KEYED NOTES

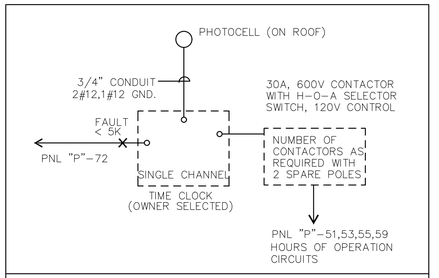
1. PROVIDE W.P. J-BOX FOR EXTERIOR SIGNAGE PER NEC. COORDINATE EXACT LOCATIONS PRIOR TO INSTALLATION. EXTEND CIRCUIT THROUGH WALL SWITCH, REFER TO SHEET E1.0 FOR MORE INFORMATION. VERIFY EXACT REQUIREMENTS W/OWNER.
2. 4" UNDERGROUND PVC CONDUIT WITH PULLWIRE AND RIGID STEEL BENDS PER TELEPHONE COMPANY REQUIREMENTS. TRENCH AND BACKFILL AS REQUIRED. REFER TO NEC TABLE 300.5 FOR ADDITIONAL REQUIREMENTS.
3. NEW SECONDARY FEEDERS FROM TRANSFORMER PER POWER COMPANY REQUIREMENTS. ROUTING SHOWN FOR REFERENCE ONLY. REFER TO ONE-LINE DIAGRAM.
4. PROPOSED LOCATION OF NEW SERVICE ENTRANCE SECTION IN NEMA-3R ENCLOSURE. REFER TO ONE-LINE DIAGRAM AND LOAD CALCULATIONS.
5. CIRCUIT ROUTED TO WALL SWITCH. REFER TO SHEET E1.0 FOR LOCATION
6. PROVIDE W.P. J-BOX FOR DRIVE-THRU MENUBOARD. COORDINATE EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION.
7. PROVIDE W.P. J-BOX FOR DRIVE-THRU SPEAKER. COORDINATE EXACT POWER REQUIREMENTS WITH MANUFACTURER PRIOR TO INSTALLATION. SEE DRIVE-THRU CONDUIT SCHEMATIC.
8. CONNECT SPEAKER PEDESTAL TO DETECTION LOOP. COORDINATE EXACT REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH-IN. SEE DRIVE-THRU CONDUIT SCHEMATIC.
9. PROVIDE STUB UP FOR DETECTION LOOP. COORDINATE EXACT REQUIREMENT WITH MANUFACTURER PRIOR TO ROUGH-IN. SEE DRIVE-THRU CONDUIT SCHEMATIC.
10. PROPOSED LOCATION OF MPOP (MAIN POINT OF PRESENCE) FOR TELEPHONE COMPANY DEMARCATION AND TERMINATION.
11. PROPOSED LOCATION OF NEW UTILITY TRANSFORMER. REFER TO ONE-LINE FOR MORE INFORMATION.
12. TERMINATE AND STUB CONDUIT TO PROPERTY LINE OR EXISTING CABINET PER TELEPHONE COMPANY REQUIREMENTS.
13. PROVIDE (3) ELECTRICAL CONDUITS FOR DRIVE-THRU EQUIPMENT. REFER TO DRIVE-THRU SCHEMATIC ON THIS SHEET FOR FURTHER INFORMATION.
14. PROVIDE W.P. J-BOX FOR ILLUMINATED SITE SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT AND OR OWNER AND ELECTRICAL REQUIREMENTS WITH VENDOR.
15. PROVIDE W.P. J-BOX FOR MONUMENT SITE SIGN. COORDINATE EXACT LOCATION WITH ARCHITECT AND OR OWNER AND ELECTRICAL REQUIREMENTS WITH VENDOR.
16. PROVIDE #10 WIRE IN 3/4" NONMETALLIC CONDUIT, 24" BELOW FINISHED GRADE OR PER NEC 300.5. VERIFY EXACT ROUTING PRIOR TO INSTALLATION. TRENCH, BACKFILL, AND REPAIR LANDSCAPE/HARDSCAPE AS REQUIRED.

CONDUIT ROUTING NOTE

CONDUIT ROUTING IS CONCEPTUAL AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE/FIELD VERIFY BEST ROUTING METHOD WITH OWNER/ARCHITECT PRIOR TO TRENCHING.

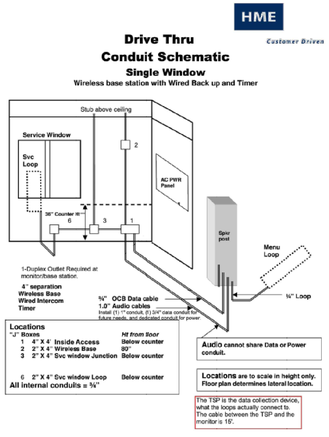
CONTRACTOR NOTE

CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND SCHEDULING WITH POWER AND TELEPHONE UTILITY COMPANIES INCLUDING PROVIDING (2) COMPLETE SETS OF DRAWINGS TO EACH COMPANY. ALL WORK SHALL BE INSTALLED PER EACH UTILITY COMPANIES FINAL DESIGN DRAWINGS.



TIME CLOCK LIGHTING CONTROL DIAGRAM

* TIME CLOCK TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.



DRIVE-THRU CONDUIT SCHEMATIC

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
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TITLE:

ELECTRICAL SITE PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
BPA

CHECKED BY:
SAH

SHEET NO.

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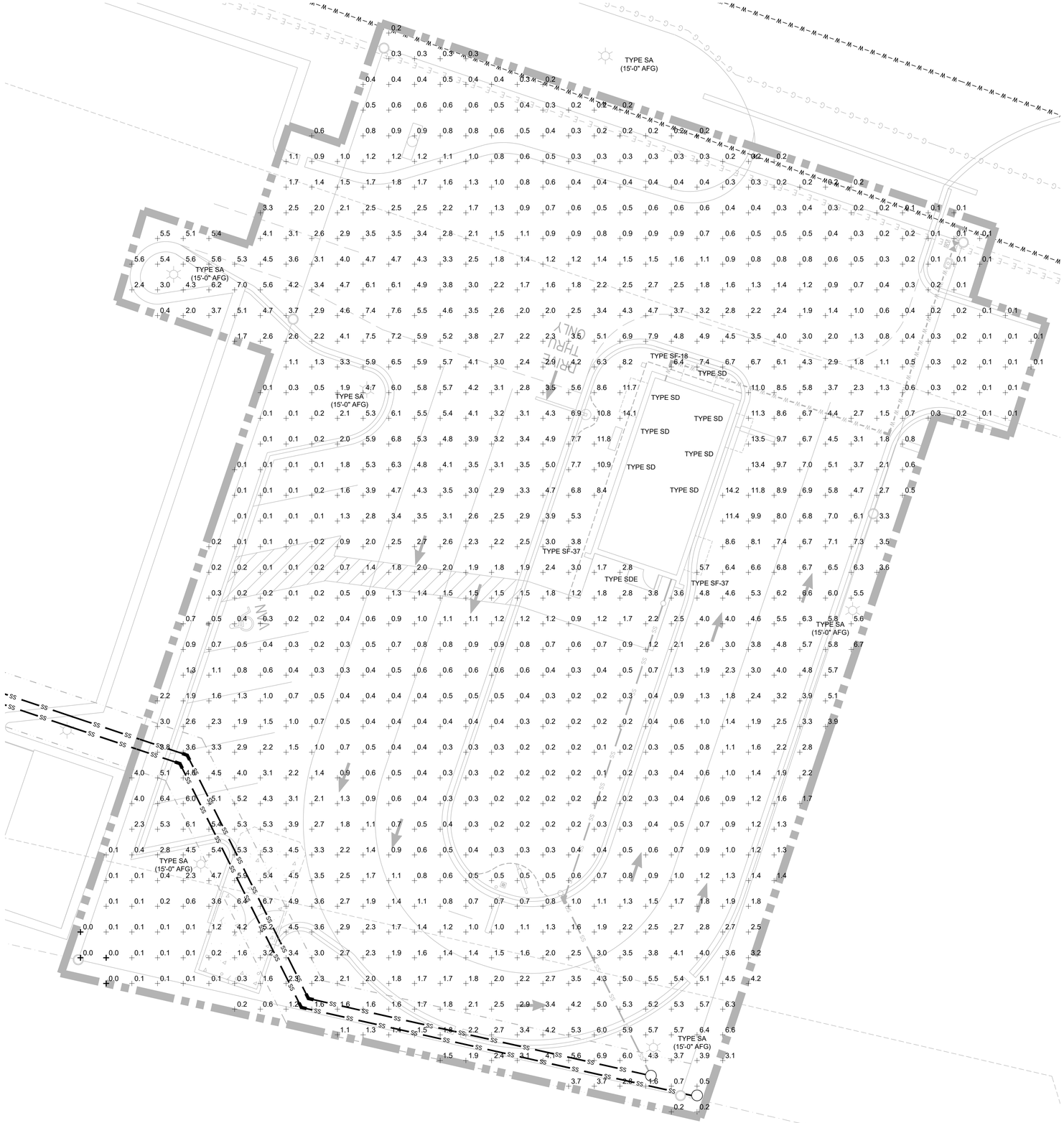

1 ELECTRICAL SITE PHOTOMETRIC PLAN
SCALE: 1"=10'-0"

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
PROPERTY LINE	+	2.3 fc	14.2 fc	0.0 fc	N/A	N/A

Schedule								
Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Number Lamps	Lumens per Lamp	LLF	Wattage
	SA	5	COOPER LIGHTING SOLUTIONS	PRV-P-C25-D-UNV-T3-HSS	PREVAIL AREA AND WALL LUMINAIRE (1) 70 CRI, 4000K, 1650mA LED AND TYPE III OPTIC WITH HOUSE SIDE SHIELD	1	10633	1	94.1
	SD	7	ENVISION LED	LED-WPFC-ARC-3P30W	WALL MOUNT. MOUNTED @ 10'-0"	1	4172	1	27.9725
	SDE	1	ENVISION LED	LED-WPFC-ARC-3P30W-EMB	WALL MOUNT W/EM BATTERY PACK. MOUNTED @ 10'-0"	1	4172	1	27.9725
	SF-37	2	TASK LIGHTING	L-VMW600-37-30K-L-007-LENS-80	37' WET RATED LINEAR LED SYSTEM.	1	234	1	0
	SF-18	1	TASK LIGHTING	L-VMW600-18-30K-L-007-LENS-80	18' WET RATED LINEAR LED SYSTEM.	1	234	1	0

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/9/26

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1950 CRAIG ROAD, SUITE 300
PH. (314) 415-2400
ST. LOUIS, MO 63146
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REV	DATE	DESCRIPTION	BY
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TITLE:
ELECTRICAL SITE PHOTOMERIC PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

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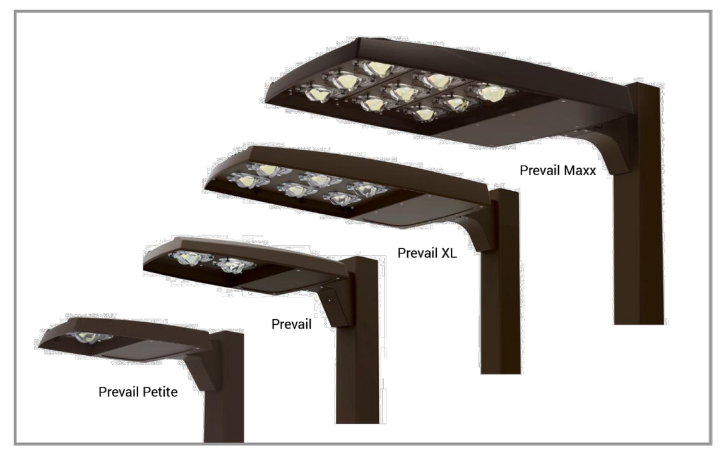
SAH

SHEET NO.
E0.3

Project		Catalog #		Type	SA
Prepared by		Notes		Date	



Lumark
Prevail LED
Area / Site Luminaire

Product Features
BAA · TAA · BABA · Light ARchitect™ · FADC

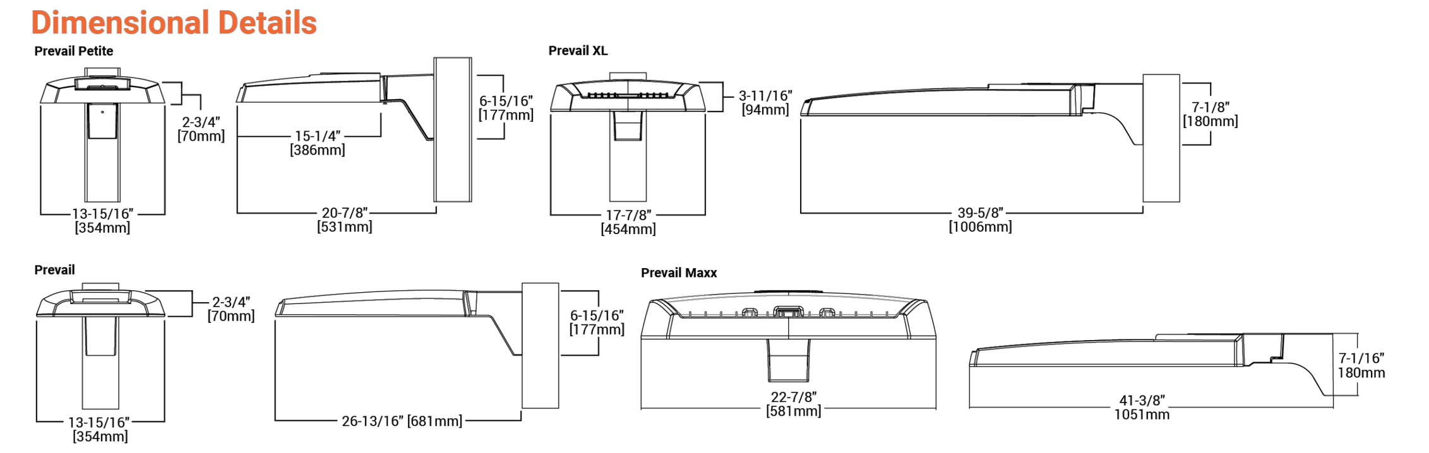
Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6, 7
- Control Options page 8

Product Certifications
ISO · UL Certified · DLC Listed[1] · DLC Listed Premium[1] · FC Class A CAN ICES-005 · RoHS Compliant · IP66 · DarkSky Approved[2] · 5 Year Limited Warranty

Quick Facts
- Lumen packages range from 4,800 - 84,000 lumens (35W - 588W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 160 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Connected Systems
- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

Dimensional Details


NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

EnVision LED
WWW.ENVISIONLEDLIGHTING.COM

Project: ______ Part #: ______
Type: SD/SDE

Wall Packs

ARCY-Line: Full Cut Off Wall Packs
3-CCT + 3-Power Selectable

WATT	LUMENS
30	4,000
50	6,250
60	7,800
65	8,000
80	10,000
100	12,000

BUG CHART

	BUG
3P65: 30W	
3P65: 50W	
3P65: 65W	
3P100: 60W	B2-U0-G2
3P100: 80W	B2-U0-G2
3P100: 100W	B2-U0-G2

Detail Specifications:
- Finish: Bronze, Custom finishes available
- IP Rating: Wet Location IP66
- Impact Rating: IK08
- 3-CCT Selectable: 30/40/50K
- Beam Angle: Type III standard, IV or V available
- Chip: SMD 2835, R9 >50, CRI >80
- BUG:
  - 3P65:
  - 3P100:
    100W: B2-U0-G2
- Operating Temperature: -40° - 122° F
- Lens: Clear acrylic with optics
- Average life (L70) of 70,000 hours

Applications:
- Walkways & Pathways
- Parking Lots
- Hospitality, Multi-Family
- Outdoor Corridors
- Up or Down lighting
- Residential, Commercial and Industrial

Product Information:
- Sturdy die-cast aluminum housing finished with corrosion free powder coat
- Full Cut-Off Dark Sky Compliant when faced down
- -10° down to 20° up tilt adjustable design with screw lock
- Fixture can be mounted faced up or down
- Photocell is included with an easy disconnect switch
- Instant-On to full brightness
- Select-n-Switch Technology: 3-CCT + 3-Power Selectable
- Control Options:
  - Standard Sensors
  - SILVAIR Bluetooth Mesh
  - ENVISIONLS Bluetooth
  - Click Here for More Information

Driver Options:
- UNV: 120-347V 0-10V Dimmable (Dim to off)
- Built in 6Kv Surge Protector
- THD: <20% (+/-5% tolerance), PF >0.9, 50/60Hz

Mounting & Installation:
- Mounts to junction box
- Conduit wall mount bracket available

Certifications:
- ETL Listed for USA and CA
- DLC Premium Listed
  - 3P65: S-WZJW3P
  - 3P100: S-74JL70
- ROHS Compliant
- Approved for CA T24
- 5 Year Limited Warranty
- FCC CFR 47, GCC Part 15, Subpart B:2017

Series	Finish[1]	Photocell	Voltage	Optic	Sensor[2]	Emergency	Surge Protector
LED-WPFC-ARC-3P65-TRI 30/50/65W **LED-WPFC-ARC-3P100-TRI** 60/80/100W	**BZ** Bronze (Standard) **BL** Black **WH** White **GRY**[1] Gray **CS**[1] Custom Color	**PC** Photocell is included. On/Off switch on fixture.	**(Blank)** 120-347V **HV** 277-480V	**(Blank)** Type III **T4** Type IV **T5** Type V	**(Blank)** No Sensor **BMS** Bi-Level Motion + Daylight Sensor (S-BMS-EXT-1) **BMS-BT** PIR ENVISIONLS Bluetooth Control **BMS-SL** PIR SILVAIR Bluetooth Mesh	**(Blank)** No Emergency **EMB** Emergency Backup	**(Blank)** 6KV Bulit-In **20KV** 20KV Surge Protector

1. Standard quickship is bronze, black & white. Other colors are custom finishes
2. Sensors require remote for programming

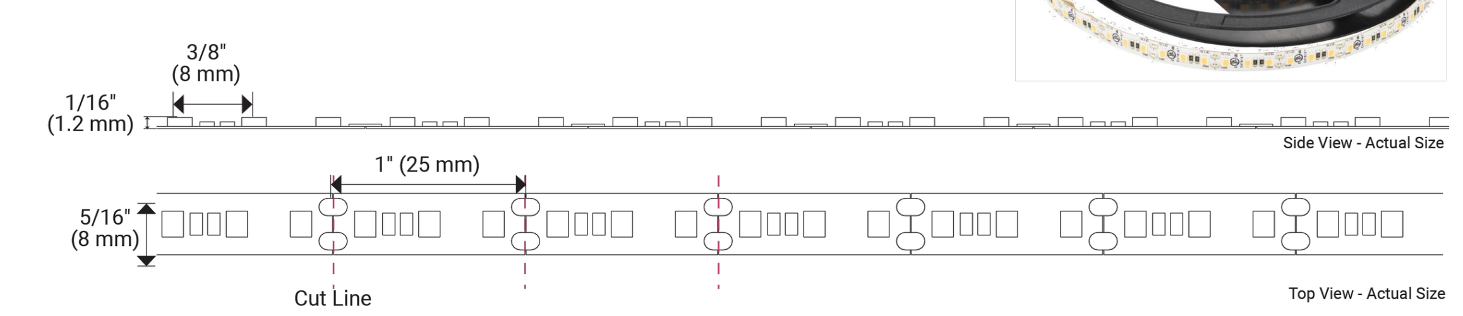
Optional Accessories (Order Separately)

Wall Mount Bracket (For Conduit Runs)	Remote for Sensors	Optic Lens
WPFC-ARC-JBOX-BZ Bronze **WPFC-ARC-JBOX-BL** Black **WPFC-ARC-JBOX-WH** White	**S-LINE-R** S-Line Remote	**WPFC-ARC-S-T-IV** Type IV Optic 3P65 Model **WPFC-ARC-S-T-V** Type V Optic 3P65 Model **WPFC-ARC-M-T-IV** Type IV Optic 3P100 Model **WPFC-ARC-M-T-V** Type V Optic 3P90 Model

Specs and model numbers are subject to change with or without notice

TASK lighting & power
225 Lumens/ft Single-White LED Tape Lighting
12-volt flexible LED linear lighting
SF-18/SF-37

LED Lighting 5 YEAR WARRANTY · Accessories 3 YEAR WARRANTY



2.8 WATTS PER FOOT (5/METER)

PART NUMBER	DESCRIPTION	DIMENSIONS	DIODE TO DIODE	LUMENS PER FT (approx. per foot)	TOTAL WATTS PER ROLL	KELVIN TEMP.
L-VMW600-16-Temp	IP65 rated protective micro-waterproof coated **16 ft** roll (5M)	197" x 5/16" x 1/16" 5M x 8 mm x 1 mm	3/8" 9 mm	225 (728/M)	45 (45/5M)	2700K (27) 3000K (30) 4000K (40) 5000K (50)
L-VMW600-32-Temp	IP65 rated protective micro-waterproof coated **32 ft** roll (10M)	384" x 5/16" x 1/16" 10M x 8 mm x 1 mm	3/8" 9 mm	225 (728/M)	90 (90/10M)	2700K (27) 3000K (30) 4000K (40) 5000K (50)
L-V600-100-Temp	Non-waterproof **100 ft** roll (30M)	1200" x 5/16" x 1/16" 30M x 8 mm x 1 mm	3/8" 9 mm	225 (728/M)	280 280/30M)	2700K (27) 3000K (30) 4000K (40) 5000K (50)

***Blue* indicates dealer choice. *Temp* indicates Kelvin Temperature.**
L-VMW600-16-30 (Example part number for12-volt, 225 Lumens/ft Single-white LED Tape Light, 16 ft, Soft White 3000K Kelvin temperature)

FEATURES
- 8 mm wide tape light
- Field cuttable approximately every 1" (on designated cut marks)
- 36 diodes per foot (600 per 16 ft roll)
- 3M™ 300LSE waterproof adhesive tape
- 90+ CRI (Color Rendering Index – true color)
- Simple installation
- Fits in aluminum housings (sold separately)
- 5-year limited warranty
- Designed for indoor/outdoor application (L-RMW24-16-Temp)
- Designed for indoor application (L-R24-1-100-Temp)
- No UV or IR
- Dimmable (with compatible dimmer)
- 50,000 hour LED life at 70% lumen maintenance
- 12-volt DC plug-in or hardwired power supply required (order separately)

APPLICATIONS
- Under Cabinet
- Cove
- Display Case

TECHNICAL INFORMATION

Lumens per foot	225
Input Voltage	12-volt DC
Color Temperature (Kelvin)	Warm white 2700K (27) Soft white 3000K (30) Cool white 4000K (40) Daylight white 5000K (50)
CRI (Color Rendering Index)	90+
LED Type	2835 SMD
Max Run	Refer to power supply specs
Cuttable	Approximately every 1"
IP Rating	IP65 (L-RMW300-16 &L-RMW300-32) IP20 (L-R300-100)
Dimmable	5% – 100%
Rating	cULus Listed
Rated Life	50,000 hrs
LED Beam Angle	120°
LED Spacing	3/8"
Mounting	3M™ 300LSE waterproof adhesive tape on back
Wiring	20/2 stranded or solid
Operating Temperature	-4ºF to 140ºF (-20ºC to 60ºC)
Environment	Damp, Dry, Wet locations
Construction Material	Heat-resistant 8 mm PCB, spray silicone IP65
Warranty	5 years

12V · WAV Compatible

TASK lighting & power
12-Volt LED Lighting Accessories
Profiles, Connectors

cULus LISTED · LED Lighting 5 YEAR WARRANTY · Accessories 3 YEAR WARRANTY

PROFILES

PART NUMBER	DESCRIPTION	DIMENSIONS
L-002-Lens-48	002 recessed aluminum housing 48"–Frosted (FR) or Clear (CL) lens.	48" x 1" x 5/16"
L-003-Lens-48	003 angled aluminum housing 48"–Frosted (FR) or Clear (CL) lens.	48" x 5/8" x 5/8"
L-002XL-FR-48	002XL angled aluminum housing 48"–Frosted lens.	48" x 5/8" x 5/8"
L-002XL-FR-90	002XL angled aluminum housing 90"–Frosted lens.	90" x 5/8" x 5/8"
L-003-Lens-80	003 angled aluminum housing 80"–Frosted (FR) or Clear (CL) lens.	80" x 5/8" x 5/8"
L-007-Lens-48	007 flat aluminum housing 48"–Frosted (FR) or Clear (CL) lens.	48" x 5/8" x 3/8"
L-007-Lens-80	007 flat aluminum housing 80"–Frosted (FR) or Clear (CL) lens.	80" x 5/8" x 3/8"
L-0LC-FR-48-P-Color	48" field-cuttable Lighted Closet Rod profile with frosted lens. Available in Black (BK), Bronze (BZ), Satin Nickel (SN), or White (WT)	48" x 1-1/4" x 1/2"
L-0LC-FR-90-P-Color	90" field-cuttable Lighted Closet Rod profile with frosted lens. Available in Black (BK), Bronze (BZ), Satin Nickel (SN), or White (WT)	90" x 1-1/4" x 1/2"
SA9-WW-48	48" Mini-Angled Linear Profile (aluminum housing and lens).	48" x 1/2" x 5/8"
SF9-WW-48	48" Mini-Flat Linear Profile (aluminum housing and lens).	48" x 1/2" x 1/2"
SG9-48-HS-Color	Linear aluminum housing 48" with frosted lens. Available in Black (B), Grey (G), or White (W)	48" x 1-1/4" x 1/2"
SG9-WW-MJ12-Color-48	(2) 12" WireWay pieces with 45° miter joint. Available in Black (BK), Grey (GRY), or White (WT)	48" x 1-1/4" x 1/2"
SS9-WW-48	48" Angled Linear Profile (aluminum housing and lens).	48" x 3/4" x 11/16"
SR9-WW-48	48" Recessed Linear Profile (aluminum housing and lens).	48" x 5/8" x 1/2"

CONNECTORS

PART NUMBER	DESCRIPTION	DIMENSIONS
L-EZV2-6PK-BK	Black Screw-down EZ connector–6 pack. Use to connect 8mm–10mm tape light to wire.	3/4" x 7/16" x 5/16"
L-EZV2-6PK-WT	White Screw-down EZ connector–6 pack. Use to connect 8mm–10mm tape light to wire.	3/4" x 7/16" x 5/16"
L-EZV2-100PK-BK	Black Screw-down EZ connector–100 pack. Use to connect 8mm–10mm tape light to wire.	3/4" x 7/16" x 5/16"
L-EZV2-100PK-WT	White Screw-down EZ connector–100 pack. Use to connect 8mm–10mm tape light to wire.	3/4" x 7/16" x 5/16"
L-10MM-SC	10mm splice snap connector to connect 10mm tape to 10mm tape with no wire between.	3/4" x 1/2" x 5/16"
L-10MM-WSC	10mm tape light to wire connector.	15/16" x 1/2" x 5/16"
T-MBC	Male barrel to conductor screw-down connector. Use to add a female barrel connector to a pair of lead wires for connection to an LED light power supply or cable.	1-9/16" x 9/16" x 1/2"
T-FBC	Female barrel to conductor screw-down connector. Use in conjunction with male barrel connector to pair lead wires or to connect and rewire an LED light power supply cable.	1-9/16" x 9/16" x 1/2"
T-MPC	Male Plug Connector. Connect to output side of receiver for easy plug-and-play system.	6-1/2" overall length
T-FPC	Female Plug Connector. Connect to input side of receiver or into a Male Plug Connector for easy connection.	6-1/2" overall length
T-EZWC	EZ wire-to-wire connector. Must strip wire to insert into connector. Use to daisy chain fixtures in parallel runs or to connect around corners.	13/16" x 11/16" x 5/16"
T-3WSP	DC 3-way splitter plug. Use to connect multiple LED light fixtures to a dimming system.	16" overall length 8" length of one splice
T-JB-W	Mini plastic junction box for wires–white.	N/A
STS-ICONN	Inline pin connector to insert into the end of linear fixtures for direct connection of adjacent fixtures. Sold in pairs.	1/2" x 1/32"

Lumark — Prevail LED
Ordering Information
SAMPLE NUMBER: **PRV-XL-C75-740-D-UNV-T4-SA-BZ**

Product Family[1,2]	Light Engine[4]	Color Temperature	Driver	Voltage	Distribution	Mounting	Color
PRV-P=Prevail Petite **BAA-PRV-P**=Prevail Petite BAA Compliant[3] **TAA-PRV-P**=Prevail Petite TAA Compliant[3] **BABA-PRV-P**=Prevail Petite BABA Build America Buy America Act Compliant[30]	**C10**=(1 LED) 4,900 Nominal Lumens **C15**=(1 LED) 6,900 Nominal Lumens **C20**=(1 LED) 9,800 Nominal Lumens **C25**=(1 LED) 11,800 Nominal Lumens	**740**=70CRI, 4000K **727**=70CRI, 2700K **730**=70CRI, 3000K **750**=70CRI, 5000K **8540**=85CRI, 4000K	**D**=Dimming (0-10V)	**UNV**=Universal (120-277V) **H**=High Voltage, 347-480V **8**=480V[5] **9**=347V **DV**=DuraVolt (277-480V)[5,6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**SA**=QM Standard Versatile Arm **MA**=QM Mast Arm **FMA**= Fixed Mast Arm[26] **WM**=QM Wall Mount Arm **ADJA-WM**=Adjustable Arm–Wall Mount[28] **ADJA**=Adjustable Arm–Pole Mount[28] **ADJS**=Adjustable Arm–Slipfitter, 3" vertical tenon[28] **SP2**=Adjustable Arm–Slipfitter, 2 3/8" vertical tenon[26, 28]	**BZ**=Bronze **AP**=Grey **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White
PRV=Prevail **BAA-PRV**=Prevail BAA Compliant[3] **TAA-PRV**=Prevail TAA Compliant[3] **BABA-PRV**=Prevail BABA Build America Buy America Act Compliant[30]	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens						
PRV-XL=Prevail XL **BAA-PRV-XL**=Prevail XL BAA Compliant[3] **TAA-PRV-XL**=Prevail XL TAA Compliant[3] **BABA-PRV-XL**=Prevail XL BABA Build America Buy America Act Compliant[30]	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens						
PRV-M=Prevail Maxx **BAA-PRV-M**=Prevail Maxx BAA Compliant[3] **TAA-PRV-M**=Prevail MaxxTAA Compliant[3] **BABA-PRV-M**=Prevail Maxx BABA Build America Buy America Act Compliant[30]	**C200**=(9 LED) 48,000 Nominal Lumens **C225**=(9 LED) 56,000 Nominal Lumens **C250**=(9 LED) 65,000 Nominal Lumens **C275**=(9 LED) 73,000 Nominal Lumens						

Options (Add as Suffix)		Accessories (Order Separately)[20, 21]	
CC=Coastal Construction finish[9] **HSS**=House Side Shield[7] **L90**=Optics Rotated 90° Left **R90**=Optics Rotated 90° Right **10K**=10kV/10kA UL 1449 Fused Surge Protective Device **20MSP**=20kV MOV Surge Protective Device **20K**=20kV UL 1449 Fused Surge Protective Device **HA**=50°C High Ambient Temperature[8] **PR**=NEMA 3-PIN Twistlock Photocontrol Receptacle[10] **PR7**=NEMA 7-PIN Twistlock Photocontrol Receptacle[10] **FADC**=Field Adjustable Dimming Controller[29] **MS/DIM-L08**=Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8' Mounting Height[11, 12] **MS/DIM-L20**=Dimming Motion and Daylight Sensor, IR Remote Programmable, 8' - 20' Mounting Height[11, 12] **MS/DIM-L40**=Dimming Motion and Daylight Sensor, IR Remote Programmable, 21' - 40' Mounting[11, 12]	**SPB1**=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting Height[11, 13] **SPB2**=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting Height[11, 13] **SPB4**=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21' - 40' Mounting Height[11, 13, 26, 27] **WPS2XX**=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting[11, 14, 15, 16] **WPS4XX**=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting[11, 14, 15, 16] **WLS2XX**=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting[11, 14, 15, 16] **WLS4XX**=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting[11, 14, 15, 16]	**PRVSA-XX**=Standard Arm Mounting Kit[21] **PRVMA-XX**=Mast Arm Mounting Kit[21] **PRVWM-XX**=Wall Mount Kit[21] **PRV-ADJA-XX**=Adjustable Arm - Pole Mount Kit[21] **PRV-ADJS-XX**=Adjustable Arm - Slipfitter Kit[21] **PRV-ADJA-WM-XX**=Adjustable Arm - Wall Mount Kit[21] **PRVXLSA-XX**=Standard Arm Mounting Kit[27] **PRVXLMA-XX**=Mast Arm Mounting Kit[27] **PRVXLWM-XX**=Wall Mount Kit[27] **PRV-XL-ADJA-XX**=Adjustable Arm - Pole Mount Kit[27] **PRV-XL-ADJS-XX**=Adjustable Arm - Slipfitter Kit[27] **PRV-XL-ADJA-WM-XX**=Adjustable Arm - Wall Mount Kit[27] **PRV-M-ADJA-XX**=Adjustable Arm - Pole Mount Kit[26] **PRV-M-ADJS-XX**=Adjustable Arm - Slipfitter Kit[26] **PRV-M-ADJA-WM-XX**=Adjustable Arm - Wall Mount Kit[26] **MA1010-XX**=Single Tenon Adapter for 3-1/2" O.D. Tenon	**MA1011-XX**=2@180° Tenon Adapter for 3-1/2" O.D. Tenon **MA1017-XX**=Single Tenon Adapter for 2-3/8" O.D. Tenon **MA1018-XX**=2@180° Tenon Adapter for 2-3/8" O.D. Tenon **SRA238**=Tenon Adapter from 3" to 2-3/8" **PRV/COB-FDV**=Full Drop Visor[22] **PRVXL/COB-FDV**=Full Drop Visor[17] **HS/VERD**=House Side Shield Kit[7, 23] **VGS-F/B**= Vertical Glare Shield Kit, Front/Back[23] **VGS-SIDE**=Vertical Glare Shield Kit, Side[23] **OA/RA1013**=Photocontrol Shorting Cap **OA/RA1014**=NEMA Photocontrol - 120V **OA/RA1016**=NEMA Photocontrol - Multi-Tap 105-285V **OA/RA1201**=NEMA Photocontrol - 347V **OA/RA1027**=NEMA Photocontrol - 480V **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor[24] **WOLC-7P-10A**=WaveLinx Outdoor Control Module (7-PIN)[25]

NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for alll applications. Refer to installation instructions IB500002EN and pole white paper WP513001EN for additional support information.
3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
4. Standard 4000K CCT and 70CRI.
5. 480V not to be used with ungrounded or impedance grounded systems.
6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information.
7. House Side Shield not suitable with T5 distribution. Not available with PRV-C60 lumen package.
8. Not available with PRV-C60 lumen package. Not available with PRV-P-C25 lumen package.
9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
10. If DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used.
11. Controls system is not available in combination with a photocontrol receptacle (PR & PER7) or another controls system (MS or SPB). Option not available with DuraVolt (DV) voltage option.
12. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately.
13. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details.
14. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
15. For the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
16. Replace XX with sensor color (WH, BZ, or BK).
17. Only available in PRV-XL configurations C75, C100, C125, C150, or C175.
18. Not available with 347V, 480V, DV, or HA options.
19. Replace XX with paint color.
20. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
21. Not for use with PRV-XL or PRV-M configurations.
22. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P.
23. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, 6 or 9).
24. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
25. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR & PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Operates on 120-347V input voltages.
26. Only for use with PRV-M configurations.
27. Only for use with PRV-XL configurations.
28. Fixed for PRV-M.
29. Cannot be used with PR7 or other motion response control options
30. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Stock Ordering Information

Product Family[1]	Light Engine	Voltage	Distribution
PRVS=Prevail	**C15**=(1 LED) 7,100 Nominal Lumens **C25**=(2 LEDs) 13,100 Nominal Lumens **C40**=(2 LEDs) 17,100 Nominal Lumens **C60**=(2 LEDs) 20,000 Nominal Lumens	**UNV**=Universal (120-277V) **347**=347V[2]	**T3**=Type III **T4**=Type IV
PRVS-XL=Prevail XL	**C75**=(4 LED) 26,100 Nominal Lumens **C100**=(4 LED) 31,000 Nominal Lumens **C125**=(4 LED) 36,000 Nominal Lumens **C150**=(6 LED) 41,100 Nominal Lumens **C175**=(6 LED) 48,600 Nominal Lumens		

NOTES:
1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm.
2. Only available in PRVS configurations C15, C25, C40 or C60.

REGISTRATION SEAL
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
www.arcv.com
PH (314) 415-2400
FAX (314) 415-2300

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
2			
3			
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5			
6			
7			
8			
9			

TITLE:
ELECTRICAL EXTERIOR LIGHTING SPECIFICATIONS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
BPA

CHECKED BY:
SAH

SHEET NO.
E0.4

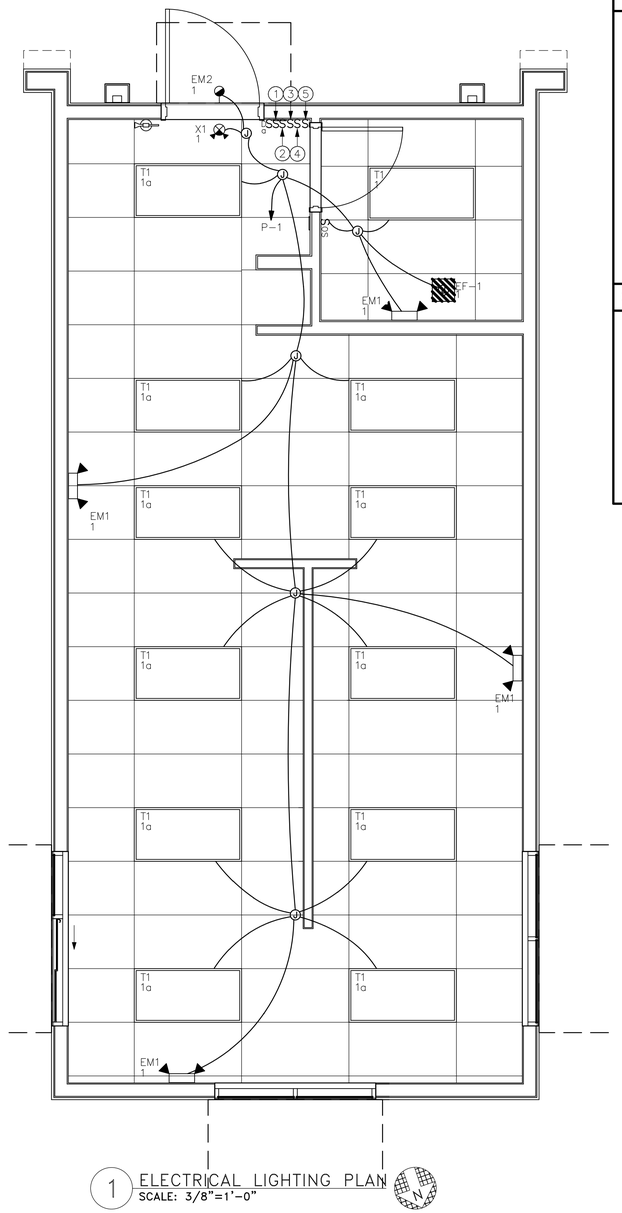
LIGHTING CONTROL DEVICE SCHEDULE

CALLOUT	SYMBOL	MANUFACTURE	CATALOG #	DESCRIPTION
DIMMING SWITCH	S_D	nLIGHT	nPODMRD	LINE VOLTAGE PUSH BUTTON SWITCH POD WITH ON/OFF, + DIMMING AND – DIMMING
OCCUPANCY SENSOR SWITCH	S_{OS}	nLIGHT	WSX–PDT	LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY SENSOR.

ELECTRICAL CONTRACTOR SHALL COORDINATE COMPATIBILITY OF LIGHT FIXTURES AND LIGHTING CONTROL DEVICES/SYSTEM WITH CONTROL SYSTEM SUPPLIER PRIOR TO ORDERING/ROUGH–IN.

VILLA LIGHTING LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	MODEL	DESCRIPTION	BALLAST	MOUNTING	VOLTS
EM1		(2) 4W INCLUDED	EXTRONIX/BARRON LIGHTING LED51–WH	EMERGENCY LED FIXTURE. FIXTURE IS EQUIPPED WITH 90 MINUTES EMERGENCY BATTERY BACK UP.	LED	WALL	120V 1P 2W
EM2		(1) 15W LED	SATCO/NUVO LIGHTING NUVO–65–880	LED DECORATIVE OUTDOOR BRONZE COLOR EMERGENCY FIXTURE. 15W, 35K 80CRI, BUILT IN PHOTOCELL. FIXTURE IS EQUIPPED WITH 90 MINUTES EMERGENCY BATTERY BACK UP.	LED	WALL	120V 1P 2W
SA		(1) 94W LED	COOPER LIGHTING PRV–P–C25–740–D–UNV–T3–SA–BZ–HSS	SINGLE HEAD POLE LIGHT. PRPEVAIL PETITE, 11800 LUMENS, 70CRI, DIMMABLE, TYPE 3 DIST, BRONZE COLOR	LED	POLE	120V 1P 2W
SD		(1) 65W LED	ENVISION LED LED–WPFC–ARC–3P65 –TRI–PC	EXTERIOR FULL CUT OFF WALL PACK, 8000 LUMENS, 65 WATTS, BRONZE COLOR, PHOTOCELL IS INCLUDED.	LED	WALL	120V 1P 2W
SDE		(1) 8.62W LED	ENVISION LED LED–WPFC–ARC–3P65 –TRI–PC–EMB	EXTERIOR FULL CUT OFF WALL PACK, 8000 LUMENS, 65 WATTS, BRONZE COLOR, PHOTOCELL IS INCLUDED. FIXTURE IS EQUIPPED WITH 90 MINUTES EMERGENCY BATTERY BACK UP.	LED	WALL	120V 1P 2W
SF–18		(1) 2.8W/FT LED	TASK LIGHTING L–VMW600–18–30K –L–007–LENS–80	18' WET RATED LINEAR LED SYSTEM. FIELD MEASUREMENTS REQUIRED. FLEXIBLE LED WITH BLACK MOUNTING CHANNEL SYSTEM (VERIFY LENGTH PRIOR TO ORDERING). MOUNTED @ 13'–0". 24V LED POWER SUPPLY REQUIRED.	LED	SURFACE	120V 1P 2W
SF–37		(1) 2.8W/FT LED	TASK LIGHTING L–VMW600–18–30K –L–007–LENS–80	37' WET RATED LINEAR LED SYSTEM. FIELD MEASUREMENTS REQUIRED. FLEXIBLE LED WITH BLACK MOUNTING CHANNEL SYSTEM (VERIFY LENGTH PRIOR TO ORDERING). MOUNTED @ 13'–0". 24V LED POWER SUPPLY REQUIRED.	LED	SURFACE	120V 1P 2W
T1		(1) 39.7W LED	COOPER LIGHTING METALUX–24CGTS–L3C3–MEDIUM –3500K–5016–39.7W	2X4 LED PANEL LIGHTING, DIMMABLE, 3500K, 80CRI, 5016 LUMENS, 39.7 WATTS.	LED	RECESSED	120V 1P 2W
X1		(2) 3.6W INCLUDED	COOPER LIGHTING SURE–LITES–APCH7–RG	LED EXIT SIGN/EMERGENCY UNIT COMBO. FIXTURE IS EQUIPPED WITH 90 MINUTES EMERGENCY BATTERY BACK UP.	LED	CEILING	120V 1P 2W



1 ELECTRICAL LIGHTING PLAN
SCALE: 3/8"=1'–0"

LIGHTING GENERAL NOTES

A. PRIOR TO ROUGH–IN, THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL LIGHT FIXTURES/EXIT SIGN LOCATION/PLACEMENT WITH THE CITY BUILDING INSPECTOR PRIOR TO ROUGH INSPECTION APPROVAL: ALL CONFLICTS SHALL BE REPORTED TO THE ENGINEER/ARCHITECT.

B. ALL FIXTURES INSTALLED OUTDOORS SHALL BE RATED FOR DAMP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL COORDINATE DAMP/WET LOCATION RATING PER NEC ARTICLE 410.10(A). ALL INSTALLATIONS SHALL CONFORM TO NEC ARTICLE 410, ALL SUB ARTICLES.

C. COORDINATE ALL EXTERIOR BUILDING MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL BUILDING ELEVATIONS FOR HEIGHTS AND LOCATIONS.

D. PROVIDE EXIT SIGNS FOR ALL EXITS DESIGNATED BY THE CODE STUDY PLAN. REFER TO ARCHITECTURAL CODE PLANS FOR LOCATIONS AND REQUIREMENTS.

E. ALL EXIT AND EMERGENCY LIGHTS SHALL BE CONNECTED TO UNSWITCHED CIRCUIT LEG.

F. CONDUIT AND WIRING SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTORS REQUIRED FOR HOT–LEGS, NEUTRAL, AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING SHOWN FOR EACH AREA OR ROOM.

KEYED NOTES

1. PROVIDE DIMMING SWITCH ON WALL FOR EXTERIOR LED STRIP LIGHTING. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
2. PROVIDE LIGHT SWITCH ON WALL FOR EXTERIOR WALL LIGHT/SITE FIXTURE. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
3. PROVIDE SWITCH ON WALL FOR ILLUMINATED MENUBOARD/SPEAKER. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION. VERIFY EXACT POWER REQUIREMENTS PRIOR TO ROUGH–IN.
4. PROVIDE SWITCH ON WALL FOR ILLUMINATED MONUMENT SIGN. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
5. PROVIDE SWITCH ON WALL FOR ILLUMINATED SITE SIGN. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1			
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TITLE:

ELECTRICAL LIGHTING PLAN

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
BPA

CHECKED BY:
SAH

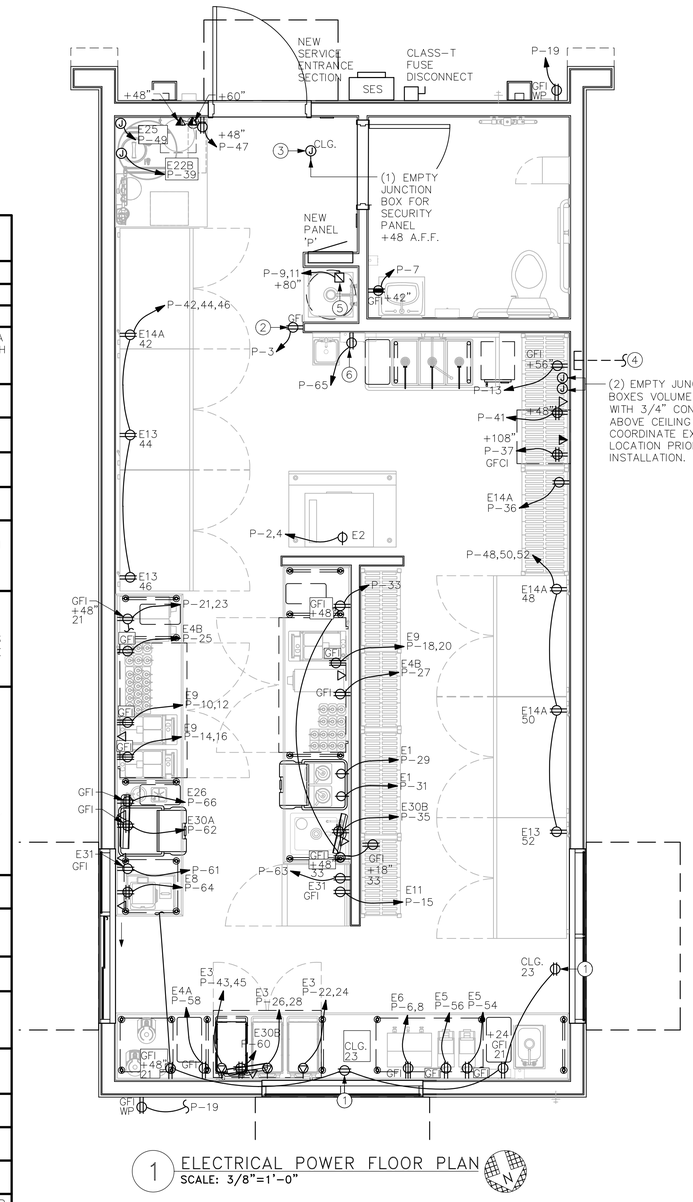
SHEET NO.

E1.0

KITCHEN EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	SYMBOL	VOLTS	AMPS	MOCP	WIRE CALLOUT	NOTES
E1	BEVERAGE BLENDER	⊖	120V 1P 2W	15	20	3/4"C,2#12,#12G	+60" A.F.F.
E2	ICE MAKER	⊖	240V 2P 2W	5.1	20	3/4"C,2#12,#12G	+60" A.F.F.
E2A	ICE MAKER CONDENSER	⊂⊃	240V 2P 2W	8	15	3/4"C,2#12,#12G	PROVIDE 30A/1P NEMA 3R DISCONNECT SWITCH FUSED PER UNIT NAMEPLATE.
E3	HIGH SPEED OVEN	⊖	240V 2P 2W	30	30	3/4"C,2#10,#10G	+30" A.F.F. NEMA 6-30P
E4A	U/C REFRIGERATOR (48")	⊖	120V 1P 2W	3	20	3/4"C,2#12,#12G	+18" A.F.F. NEMA 5-20P
E4B	U/C REFRIGERATOR (60")	⊖	120V 1P 2W	2.8	20	3/4"C,2#12,#12G	+18" A.F.F. NEMA 5-20P
E5	COFFEE GRINDER	⊖	120V 1P 2W	11	20	3/4"C,2#12,#12G	+30" A.F.F. NEMA 5-20P
E6	COFFEE BREWER	⊖	240V 2P 2W	25.5	30	3/4"C,2#10,#10G	+24" A.F.F. NEMA 6-30P/R. ELECTRICAN SHALL PROVIDE RECEPTACLE AND END WHIP.
E8	POS TERMINAL W/ PRINTER	⊖	120V 1P 2W	15	20	3/4"C,2#12,#12G	+30" A.F.F. NEMA 5-20P CONTRACTOR SHALL PROVIDE (2) TWO CAT5 DATA LINES PER POS AND (1) ONE CAT5 DATA LINE AT ORDER SCREEN
E9	ESPRESSO MACHINE	⊖	240V 2P 2W	30	30	3/4"C,2#10,#10G	+48" A.F.F. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL NEMA L6-30R RECEPTACLES WITH MATCHING NEMA L6-30P PLUGS ON THE WHIPS OF ALL FRANKE ESPRESSO MACHINES AND VERIFY IF A BUCK BOOST TRANSFORMER IS REQUIRED TO ACHIEVE 208 VOLTAGE.
E11	WORKTOP REFRIGERATOR	⊖	120V 1P 2W	2.3	15	3/4"C,2#12,#12G	+A.F.F. 24" NEMA 5-15P
E13	REACH-IN REFRIGERATOR (2 DOOR)	⊖	120V 1P 2W	4.5	20	3/4"C,2#12,#12G	+48" A.F.F. NEMA 5-20P
E14A	REACH-IN FREEZER (2 DOOR)	⊖	120V 1P 2W	12	20	3/4"C,2#12,#12G	+48" A.F.F. NEMA 5-20P
E22B	WATER TREATMENT SYSTEM	ⓙ	120V 1P 2W	2	15	3/4"C,2#12,#12G	48" A.F.F. VERIFY PROCESSOR 120V, 6W RP 120V, 2W
E25	WATER PUMP	ⓙ	120V 1P 2W	16	20	3/4"C,2#12,#12G	+18 A.F.F. J-BOX FOR WATER PUMP
E26	ZOOM TIMER	⊖	120V 1P 2W	2.5	15	3/4"C,2#12,#12G	+90" A.F.F. NEMA 5-15P
E30A	DRIVE THRU ORDER MONITOR	⊖	120V 1P 2W	3	20	3/4"C,2#12,#12G	78" A.F.F. NEMA 5-20P
E30B	DRIVE THRU ORDER MONITOR	⊖	120V 1P 2W	3	20	3/4"C,2#12,#12G	72" A.F.F. NEMA 5-20P
E31	SURVEILLANCE MONITOR/DRIVE THRU ORDER MONITOR	⊖	120V 1P 2W	3	15	3/4"C,2#12,#12G	SURVEILLANCE MONITOR +108" DRIVE THRU ORDER MONITOR +78"A.F.F. NEMA 5-15P

THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL EQUIPMENT PRIOR TO ROUGH-IN.



1 ELECTRICAL POWER FLOOR PLAN
SCALE: 3/8"=1'-0"

POWER GENERAL NOTES

A. ALL EXTERIOR DISCONNECTS SHALL BE W.P. TYPE.

B. ALL RECEPTACLES WITHIN 6'-0" OF A SINK TO BE GFCI RATED.

C. REFER TO MECHANICAL AND PLUMBING PLANS FOR EXACT SIZE, LOCATION, AND ELECTRICAL REQUIREMENTS FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.

D. ELECTRICAL CONTRACTOR RESPONSIBLE FOR COORDINATING EXACT LOCATION, QUANTITIES, AND INSTALLATION REQUIREMENTS OF ELECTRICAL EQUIPMENT IN MILL WORK.

E. ALL ELECTRICAL PANEL BOARDS SHALL MAINTAIN 3'-0" INFRONT WORKING CLEARANCE REFER TO ONE-LINE FOR DETAILS.

F. CONDUIT AND WIRING SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO PROVIDE THE NUMBER OF CONDUCTORS REQUIRED FOR HOT-LEGS, NEUTRAL, AND GROUNDING AT EACH DEVICE FOR PROPER BRANCH CIRCUITING SHOWN FOR EACH AREA OR ROOM.

G. THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL EQUIPMENT PRIOR TO ROUGH-IN.

H. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE KITCHEN AREA SHALL HAVE GROUND-FAULT-CIRCUIT-INTERRUPTER FOR PERSONNEL PER N.E.C. 210.8 AND INSTALLED IN ACCORDANCE WITH N.E.C. 240.24. ALTERNATIVELY, A GFCI CIRCUIT BREAKER CAN BE INSTALLED.

KITCHEN EQUIPMENT NOTES

A. FINAL CONNECTION TO ALL HARD-WIRED EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.

B. THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL RELATED EQUIPMENT.

C. "CALL OUT" - INDICATES EQUIPMENT IDENTIFICATION NUMBER. REFER TO EQUIPMENT SCHEDULE. COORDINATE WITH EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.

D. THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL EQUIPMENT PRIOR TO ROUGH-IN.

E. SEAL ALL PENETRATIONS FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN BOXES.

F. ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER N.E.C. #250.122, #12 MINIMUM GROUND, WIRE NOT SHOWN ON DRAWINGS.

G. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER SUPERVISION OF THE EQUIPMENT SUPPLIER.

H. THE ELECTRICAL CONTRACTOR SHALL VERIFY PLUG CONFIGURATIONS FOR APPLICABLE EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.

ⓚ KEYED NOTES

1. NEW RECEPTACLE FOR SHOW WINDOW LIGHTING. MOUNTED ABOVE WINDOW.
2. PROVIDE POWER CONNECTION FOR RECIRCULATION PUMP ADJACENT TO WATER HEATER.
3. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.
4. INCOMING TELEPHONE LINE. SHOW ONLY FOR REFERENCE.
5. PROVIDE 240/1P, 60A DISCONNECT SWITCH FOR ELECTRIC WATER HEATER. VERIFY EXACT LOCATION WITH PLUMBING CONTRACTOR.
6. PROVIDE DEDICATED RECEPTACLE FOR THE EMERGENCY CELLULAR WIRELESS CONNECTION. ENSURE THE WIFI ROUTER IS MOUNTED WITHOUT OBSTRUCTIONS TO PROVIDE A FAST AND RELIABLE WIFI NETWORK WITH UNINTERRUPTED WIRELESS COVERAGE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH OWNER/ARCHITECT PRIOR TO INSTALLATION.

RECEPTACLE MOUNTING HEIGHT

- ALL RECEPTACLES ARE TO BE MOUNTED AT 18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- GENERAL CONTRACTOR TO VERIFY WITH COUNTER FAB VENDOR PRIOR TO OUTLET LOCATION.

REGISTRATION SEAL
NORTH CAROLINA PROFESSIONAL SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

SCOOTER'S COFFEE EST. 1998

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ELECTRICAL POWER FLOOR PLAN

PROJECT ADDRESS:
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FRANCHISEE & STORE NUMBER:
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JF BREW LLC

KIOSK PROTOTYPE:
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MECHANICAL GENERAL NOTES

A. VERIFY ALL MECHANICAL UNIT LOCATIONS WITH MECHANICAL PLANS.

B. THE ELECTRICAL CONTRACTOR SHALL NOT MOUNT DISCONNECT EQUIPMENT DIRECTLY TO MECHANICAL UNITS FOR DISCONNECTS 200A AND LARGER. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A SELF-SUPPORTING SYSTEM FOR DISCONNECT EQUIPMENT.

C. PROVIDE NEMA 3R FUSIBLE DISCONNECT SWITCHES FOR ALL MECHANICAL UNITS LOCATED OUTSIDE.

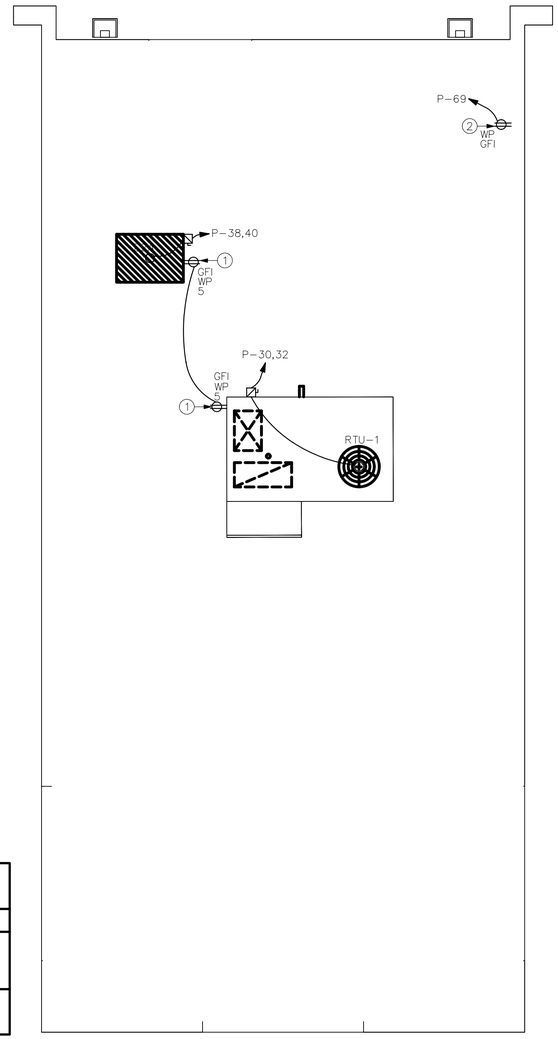
D. ALL EXTERIOR RECEPTACLES SHALL BE WEATHER RESISTANT GFCI (PASS & SEYMOUR 2095DSWRBK OR EQUAL), INSTALLED IN A WEATHERPROOF ENCLOSURE WITH A WHILE IN USE COVERPLATE (PASS & SEYMOUR #WIUC10DCL OR EQUAL).

E. EXHAUST FANS MOUNTED OUTSIDE SHALL HAVE A WEATHERPROOF DISCONNECT MOUNTED EXTERIOR TO THE UNIT. INTERNAL DISCONNECT SWITCHES SHALL NOT BE ALLOWED.

KEYED NOTES

1. PROVIDE MAINTENANCE RECEPTACLE WITHIN 25' OF ALL MECHANICAL EQUIPMENT UNLESS EXISTING RECEPTACLES ARE PRESENT PER NEC 210.63.

2. PROVIDE POWER CONNECTION FOR HOLIDAY LIGHTING. VERIFY EXACT LOCATION PRIOR TO INSTALLATION.



1 ELECTRICAL POWER ROOF PLAN
SCALE: 3/8"=1'-0"

MECHANICAL EQUIPMENT SCHEDULE

CALLOUT	DESCRIPTION	SYMBOL	VOLTS	FLA	MCA	MOCP	WIRE CALLOUT	NOTES
EF-1	EXHAUST FAN	J	120V 1P 2W	0.033		20	3/4"C,2#12,#12G	DISCONNECTING MEANS INTERNALLY INSIDE THE EXHAUST FAN. INTERLOCK FAN OPERATION WITH RESTROOM LIGHT SWITCH.
RTU-1	ROOFTOP UNIT		240V 2P 2W		71	80	1"C,2#4,#8G	PROVIDE 90A/2P NEMA 3R DISCONNECT SWITCH FUSED PER UNIT NAMEPLATE.

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/9/26

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ENGINEER
1950 CRAIG ROAD, SUITE 300 ST. LOUIS, MO 63146
PH. (314) 415-2400 FAX (314) 415-2300 www.arcv.com

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E2.1

PANEL **P** | VOLTAGE **120/240** | **1** PHASE | **3** WIRE | AMP BUS **400** | AMP MAIN **400** **M.L.O.**

NEW INSTALL **X** | EXIST LOCATION | RELOCATED EXIST | A.I.C. RATING 10,000

FED TOP **X** | FED BOTTOM | MTD FLUSH **X** | SURFACE

KEYED NOTES	CKT #	DESCRIPTION	WATTS	LOAD TYPE	WIRE SIZE	BRKR SIZE	POLE	A	B	POLE	BRKR SIZE	WIRE SIZE	LOAD TYPE	WATTS	DESCRIPTION	CKT #	KEYED NOTES
	1	EF-1, LIGHTING	507	L	2#12,1#12G IN 3/4"C	20	1	1119		2	20	2#12,1#12G IN 3/4"C	K	612	E2-ICE MAKER	2	1
	3	RECIRC. PUMP	180	M	2#12,1#12G IN 3/4"C	20	1		792	-	-	-	K	612	-	4	
	5	ROOF RECEPTACLE	360	R	2#12,1#12G IN 3/4"C	20	1	3420		2	30	2#10,1#10G IN 3/4"C	K	3060	E6-COFFEE BREWER	6	1
	7	RESTROOM RECEPTACLE	180	R	2#12,1#12G IN 3/4"C	20	1	1 3240		-	-	-	K	3060	-	8	
	9	ELECTRIC WATER HEATER	4500	M	2#8,1#10G IN 1"C	50	2	8100		2	30	2#10,1#10G IN 3/4"C	K	3600	WEST E9-ESPRESSOR MACHINE #1	10	1
	11	-	4500	M	-	-	1		8100	-	-	-	K	3600	-	12	
	13	NEXT OF DESK RECEPTACLE	180	R	2#12,1#12G IN 3/4"C	20	1	3780		2	30	2#10,1#10G IN 3/4"C	K	3600	WEST E9-ESPRESSOR MACHINE #2	14	1
1	15	E11-WORKTOP REFRIGERATOR	276	K	2#12,1#12G IN 3/4"C	15	1		3876	-	-	-	K	3600	-	16	
	17	SPACE	-	-	-	-	1	3600		2	30	2#10,1#10G IN 3/4"C	K	3600	ISLAND E9-ESPRESSOR MACHINE	18	1
	19	EXTERIOR RECEPTACLE	360	R	2#12,1#12G IN 3/4"C	20	1		3960	-	-	-	K	3600	-	20	
	21	FRONT OF KITCHEN RECEPTACLE	540	R	2#12,1#12G IN 3/4"C	20	1	4140		2	30	2#10,1#10G IN 3/4"C	K	3600	E3-HIGH SPEED OVEN	22	1
	23	SHOW WINDOW LTG.	1200	L	2#12,1#12G IN 3/4"C	20	1		4800	-	-	-	K	3600	-	24	
1	25	WEST E4B-U/C REFRIGERATOR (60")	336	K	2#12,1#12G IN 3/4"C	20	1	3936		2	30	2#10,1#10G IN 3/4"C	K	3600	E3-HIGH SPEED OVEN	26	1
1	27	ISLAND E4B-U/C REFRIGERATOR (60")	336	K	2#12,1#12G IN 3/4"C	20	1		3936	-	-	-	K	3600	-	28	
1	29	E1-BEVERAGE BLENDER	1800	K	2#12,1#12G IN 3/4"C	20	1	10320		2	80	2#4, 1#8G IN 1"C	H	8520	RTU-1	30	
1	31	E1-BEVERAGE BLENDER	1800	K	2#12,1#12G IN 3/4"C	20	1		10320	-	-	-	H	8520	-	32	
	33	ISLAND RECEPTACLE	540	R	2#12,1#12G IN 3/4"C	20	1	540		1	-	-	-	-	SPACE	34	
	35	ISLAND E30B-D/T ORDER MONITOR	360	K	2#12,1#12G IN 3/4"C	20	1		1800	1	20	2#12,1#12G IN 3/4"C	K	1440	(FUTURE) E14A-FREEZER (2-DOOR)	36	
	37	DATA RACK RECEPTACLE	360	M	2#12,1#12G IN 3/4"C	20	1	1320		2	15	2#12,1#12G IN 3/4"C	K	960	E2A-ICE MAKER CONDENSER	38	1
	39	E22B-WATER TREATMENTSYSTEM	240	M	2#12,1#12G IN 3/4"C	20	1		1200	-	-	-	K	960	-	40	
1	41	COMPUTER RECEPTACLE	360	M	2#12,1#12G IN 3/4"C	20	1	1800		1	20	2#12,1#12G IN 3/4"C	K	1440	WEST E14A-FREEZER (2-DOOR)	42	1
	43	(FUTURE) E3-HIGH SPEED OVEN	3600	K	2#10,1#10G IN 3/4"C	30	2		4140	1	20	2#12,1#12G IN 3/4"C	K	540	WEST E13-REFRIGERATOR (2-DOOR) #1	44	1
	45	-	3600	K	-	-	-	4140		1	20	2#12,1#12G IN 3/4"C	K	540	WEST E13-REFRIGERATOR (2-DOOR) #2	46	1
	47	NEXT OF DOOR RECEPTACLE	180	R	2#12,1#12G IN 3/4"C	20	1		1620	1	20	2#12,1#12G IN 3/4"C	K	1440	WEST E14A-FREEZER (2-DOOR) #1	48	1
	49	WEST E25-WATER PUMP	1920	M	2#12,1#12G IN 3/4"C	20	1	3360		1	20	2#12,1#12G IN 3/4"C	K	1440	WEST E14A-FREEZER (2-DOOR) #2	50	1
	51	MONUMENT SIGN	1200	L	SEE SITE PLAN	20	1		1740	1	20	2#12,1#12G IN 3/4"C	K	540	EAST E13-REFRIGERATOR (2-DOOR)	52	1
	53	DIRECTIONAL SIGNAGE	1200	L	SEE SITE PLAN	20	1	2520		1	20	2#12,1#12G IN 3/4"C	K	1320	E5-COFFEE GRINDER #1	54	1
	55	BOTTOM LETTERS, TOP LETTERS	800	L	SEE SITE PLAN	20	1		2120	1	20	2#12,1#12G IN 3/4"C	K	1320	E5-COFFEE GRINDER #2	56	
	57	D/T SPEAKER + MENUBOARD	1000	M	SEE SITE PLAN	20	1	1360		1	20	2#12,1#12G IN 3/4"C	K	360	E4A-U/C REFRIGERATOR (48")	58	
	59	SITE & EXTERIOR BUILDING LIGHTING	968	L	SEE SITE PLAN	20	1		1328	1	20	2#12,1#12G IN 3/4"C	M	360	FRONT OF KITCHEN E30B-D/T MONITOR	60	
	61	(FUTURE) SURVEILLANCE+D/T MONITORS	360	M	2#12,1#12G IN 3/4"C	15	1	720		1	20	2#12,1#12G IN 3/4"C	M	360	WEST E30-D/T ORDER MONITOR	62	
	63	(FUTURE) SURVEILLANCE+D/T MONITORS	360	M	2#12,1#12G IN 3/4"C	15	1		2160	1	20	2#12,1#12G IN 3/4"C	M	1800	E8-POS TERMINAL W/ PRINTER	64	
	65	EMERGENCY CELL WIFI RECEPTACLE	180	M	2#12,1#12G IN 3/4"C	20	1	480		1	15	2#12,1#12G IN 3/4"C	M	300	E26-ZOOM TIMER	66	
	67	SPACE	-	-	-	-	1		0	2	-	-	-	-	SPD 200KA	68	2
	69	HOLIDAY LIGHTING	180	L	2#12,1#12G IN 3/4"C	20	1	180		-	-	-	-	-	-	70	
	71	SPACE	-	-	-	-	1		300	1	20	2#12,1#12G IN 3/4"C	M	300	TIME CLOCK	72	

PHASE DIFF. 1 54835 55432 = 1 110267 CONNECTED WATTS

299 -299

1 1.1% BAL.

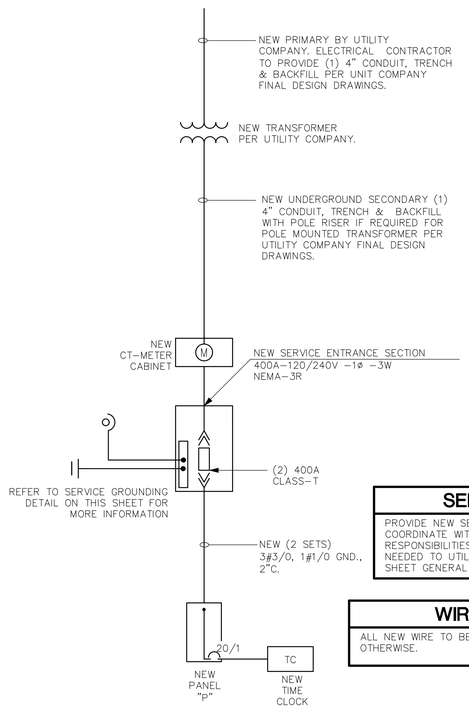
L= LIGHTING/SIGNS	6055	125% =	7569	
R= RECEPTACLES	1 2340	100% =	2340	1
M= MISC	1 16780	100% =	16780	1
H= HVAC	17040	100% =	17040	
K= KITCHEN	67752	65% =	44039	
LARGEST MOTOR	1280	25% =	320	
DEMAND WATTS		1	88088	

1 367.0 DEMAND AMPS

PANEL SCHEDULE KEYED NOTES

1 PROVIDE G.F.C.I. BREAKER IN PANEL

2 MODEL #BSPD2A100



SERVICE NOTE

PROVIDE NEW SERVICE ON BEHALF OF OWNER. COORDINATE WITH UTILITY FOR PROJECT RESPONSIBILITIES AND PROVIDE EQUIPMENT, AS NEEDED TO UTILITY CONNECTION POINT. SEE SHEET GENERAL NOTES.

WIRE NOTE

ALL NEW WIRE TO BE COPPER UNLESS NOTED OTHERWISE.

ONE-LINE DIAGRAM

NOTES :
1. ALL EQUIPMENT IS NEW

ONE-LINE GENERAL NOTES

A. SWITCHBOARD COMPONENTS, INCLUDING OVERCURRENT PROTECTIVE DEVICES SHALL BE FULLY RATED FOR THE AVAILABLE FAULT CURRENT SHOWN.

B. PROVIDE ARC FLASH AND SHOCK HAZARD WARNING IDENTIFICATION PER NEC ARTICLE 110.16

C. "NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT THE PRIOR APPROVAL OF THE DESIGN ENGINEER AND THE ELECTRICAL INSPECTOR."

D. THE FEEDER LENGTHS SHOWN IN THE INPUT DATA IS FOR CALCULATIONS ONLY. IT IS NOT THE INTENT TO USE THESE ENTERED LENGTHS FOR USAGE OF ACTUAL FIELD FEEDER LENGTH MEASUREMENTS.

E. PER NEC 240.2 CURRENT LIMITING OVERCURRENT A DEVICE THAT, WHEN INTERRUPTING CURRENTS IN ITS CURRENT-LIMITING RANGE, REDUCES THE CURRENT FLOWING IN THE FAULTED CIRCUIT TO A MAGNITUDE SUBSTANTIALLY LESS THAN THAT OBTAINABLE IN THE SAME CIRCUIT IF THE DEVICE WERE REPLACED WITH A SOLID CONDUCTOR HAVING COMPARABLE IMPEDANCE.

F. IF THE AVAILABLE FAULT AT THE SERVICE IS UNDER 22,000 AMPS, THE SERVICE MAY BE RATED AT 22,000 AIC.

PANEL SCHEDULES GENERAL NOTES

A. A.I.C. RATING SHOWN ON PANEL SCHEDULES ARE THE MINIMUM RATING FOR NEW AND REPLACEMENT OVERCURRENT PROTECTIVE DEVICES. EACH DEVICE SHALL BE FULLY RATED AT AFC AS SHOWN ON ONE-LINE DIAGRAM.

B. ALL PANEL BOARDS SHALL HAVE A TYPE WRITTEN DIRECTORY IDENTIFYING EACH NUMBERED CIRCUIT PLACED IN A DIRECTORY HOLDER INSIDE THE DOOR.

C. THE CONTRACTOR SHALL PERMANENTLY MARK WITH PERMANENT MARKER THE CIRCUIT IDENTIFICATIONS ON THE COVERPLATES OF RECEPTACLES, EQUIPMENT, AND LIGHTING JUNCTION BOXES. (STICK ON LABELS NOT ACCEPTABLE)

D. PER NEC 210.4(B) ALL MULTIWIRE BRANCH CIRCUITS ARE TO BE PROVIDED WITH A DEVICE THAT WILL DISCONNECT POWER TO ALL UNGROUNDED CONDUCTORS SIMULTANEOUSLY AT THE POINT OF ORIGIN.

E. ALL LIFE SAFETY CIRCUITS SHALL REQUIRE A LOCK ON DEVICE. FIRE ALARM CIRCUITS SHALL HAVE RED IDENTIFICATION AND BE IDENTIFIED AS FIRE ALARM CIRCUIT.

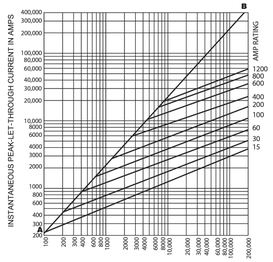
F. PER NEC 408.4(A) EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE LEGIBLY IDENTIFIED AS TO ITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE.

G. PER NEC 700.12(F)2 INSTALLATION OF UNIT EQUIPMENT, EMERGENCY LIGHTS, EXIT SIGNS & OTHER UNIT EQUIPMENT SHALL BE CLEARLY IDENTIFIED WITHIN & AT THE DISTRIBUTION PANEL.

Technical Data
Effective July 2023

JJN — 300Vac, 1-1200A, fast-acting ClassT fuses

Current-limitation curves



Current-limiting effects

Prosp. S.C.C. Let-through current (apparent RMS Sym_vs_ fuse rating)

—	15 A	30 A	60 A	100 A	200 A	400 A	600 A	800 A	1200 A
500	1000	1000	1000	1000	1000	1000	1000	1000	3000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
5000	1000	1000	1000	1000	2000	3000	5000	5000	5000
10,000	1000	1000	1000	2000	2000	4000	6000	7000	9000
15,000	1000	1000	1000	2000	3000	4000	6000	9000	10,000
20,000	1000	1000	1000	2000	3000	5000	7000	10,000	11,000
25,000	1000	1000	2000	2000	3000	5000	7000	10,000	12,000
30,000	1000	1000	2000	2000	3000	5000	8000	11,000	13,000
35,000	1000	1000	2000	3000	4000	6000	8000	11,000	13,000
40,000	1000	1000	2000	3000	4000	6000	8000	11,000	13,000
45,000	1000	1000	2000	3000	4000	6000	8000	11,000	15,000
50,000	1000	1000	2000	3000	4000	6000	8000	11,000	15,000
60,000	1000	1000	2000	3000	4000	6000	8000	11,000	15,000
70,000	1000	1000	2000	3000	5000	7000	10,000	14,000	17,000
80,000	1000	2000	2000	3000	5000	8000	11,000	15,000	17,000
90,000	1000	2000	2000	3000	6000	8000	11,000	15,000	18,000
100,000	1000	2000	2000	4000	6000	8000	12,000	16,000	19,000
150,000	1000	2000	3000	4000	6000	9000	13,000	17,000	22,000
200,000	2000	2000	3000	4000	7000	9000	15,000	19,000	23,000

FUSE PULL OUT DISCONNECT CLASS T-JJN 'DS-1' FAST ACTING FUSES.

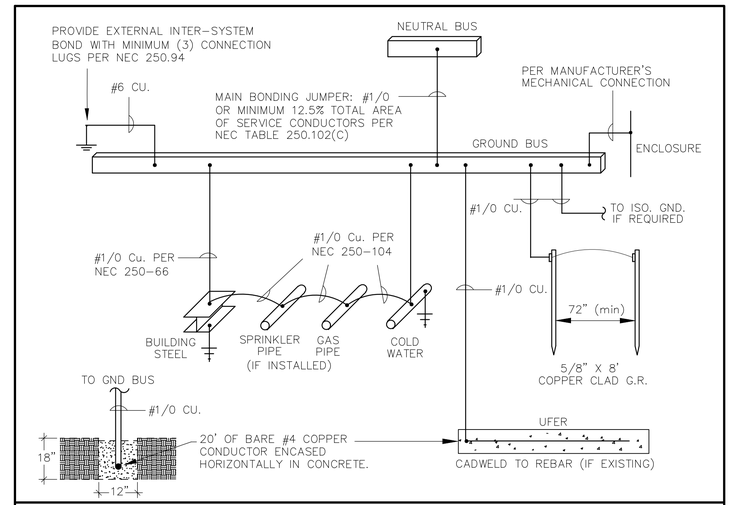
Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
Eaton.com

Bussmann Division
114 Old State Road
Ellisville, MO 63021
United States
Eaton.com/bussmannseries

Eaton.com/bussmannseries

For Eaton's Bussmann series product information, call **1-855-287-7626** or visit: **Eaton.com/bussmannseries**

Follow us on social media to get the latest product and support information.



SERVICE GROUNDING DETAIL

THESE REQUIREMENTS ARE PROVIDED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, ARTICLE 250 PERTAINING TO 'GROUNDING ELECTRODE SYSTEMS'.

1) THE METALLIC PIPING BOND, BUILDING STEEL BOND, AND THE 2ND SERVICE BONDING MUST BE BONDED TOGETHER AND TO THE GROUNDING ELECTRODE SYSTEM IF PRESENT.
2) ALL SPLICING SHALL BE EXOTHERMIC WELDS (CAD WELDS).
3) ALL INSTALLATIONS SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF NEC ARTICLE 250 AND ANY STATE AND/OR LOCAL REQUIREMENTS.
4) THE GROUNDING SYSTEM SHALL PROVIDE LESS THAN 25 OHMS RESISTANCE TO GROUND AT THE SERVICE CONNECTION. INSTALL ADDITIONAL GROUND RODS IF GROUND RESISTANCE EXCEEDS 25 OHMS PER NEC 250.56

ELECTRICAL SERVICE NOTE

PRIOR TO PURCHASE OF MAIN SERVICE ENTRANCE EQUIPMENT, VERIFY PROPOSED SERVICE IS ACCEPTABLE TO BOTH UTILITY COMPANY AND AHJ. NOTIFY THE ENGINEER OF REJECTIONS AND COMMENTS PERTINENT TO THE MAIN SERVICE ENTRANCE EQUIPMENT.

REGISTRATION SEAL
NORTH CAROLINA
PROFESSIONAL SEAL
035265
ENGINEER
ROBERT L. QUEATHEM
4/9/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/06/26	HEALTH COMMENTS	SW
2			
3			
4			
5			
6			
7			
8			
9			

TITLE:
ELECTRICAL ONE-LINE DIAGRAM

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
4.2.4 STANDARD PROTOTYPE
MAY 2025

ISSUE DATE:
02/18/26

PROJECT NO.
250701

DRAWN BY:
BPA

CHECKED BY:
SAH

SHEET NO.
E3.0

COMcheck-Web™

Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	250701 - SCOOTER'S COFFEE - ERWIN, NC
Location:	Erwin, North Carolina
Climate Zone:	4a
Project Type:	New Construction
Project No:	80941
All Electric:	true
Is Renewable:	false
Has Battery:	false
Has Charger:	false
Has Heat Pump	false

Construction Site:
503 E. Jackson Blvd.
Erwin , North Carolina 28339

Owner/Agent:
Scooter's Coffee

Designer/Contractor:

Notes:

Building Area

Description	Floor Area
1-Dining: Cafeteria/Fast Food (Dining: Cafeteria/Fast Food) : Nonresidential	664

Interior Lighting Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	250701 - SCOOTER'S COFFEE - ERWIN, NC
Location:	Erwin, North Carolina
Climate Zone:	4a
Project Type:	New Construction

Construction Site:
503 E. Jackson Blvd.
Erwin , North Carolina 28339

Owner/Agent:
Scooter's Coffee

Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-Kitchen (Common Space Types:Food Preparation)	608	1.06	
2-Restroom (Common Space Types:Restrooms)	56	0.85	
Total Allowed Watts:			692

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B # of Fixture	C Fixture Watt.	D (B X C)
1-Kitchen (Common Space Types:Food Preparation)			
T1: T1: LED:	11	40	440
2-Restroom (Common Space Types:Restrooms)			
T1: T1: LED:	1	40	40
Total Proposed Watts:			480

Proposed Interior Lighting Controls

Fixture	Lighting Control
1-Kitchen (Common Space Types:Food Preparation)	
T1: T1: LED:	Interior Timeswitch, Manual Control, Bi-level
2-Restroom (Common Space Types:Restrooms)	
T1: T1: LED:	Occupancy Sensor, Manual Control

Interior Lighting PASSES: Design 31% 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 COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ROBERT L. QUEATHEM 2026.04.09

Name - Title **Signature** **Date**

Exterior Lighting Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	250701 - SCOOTER'S COFFEE - ERWIN, NC
Location:	Erwin, North Carolina
Climate Zone:	4a
Project Type:	New Construction
Exterior Lighting Zone:	Residential mixed use area (LZ2)

Construction Site:
503 E. Jackson Blvd.
Erwin , North Carolina 28339

Owner/Agent:
Scooter's Coffee

Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / ft2	D Tradable Wattage	E Allowed Watts (B X C)
Drive-Thru Window (Drive-up windows/doors)	1 windows or doors	200.00	No	200.0
Building Facade (Illuminated area of facade wall or surface)	1840 ft2	0.07	No	128.8
Driveway (Driveway)	13646 ft2	0.04	No	545.84
Parking Area (Parking area)	1373 ft2	0.04	No	54.92
Vehicle Entrance (Pedestrian and vehicular entrances and exits)	1 ft of door width	14.00	No	14.0
Landscaping (Landscaping)	1510 ft2	0.04	No	60.4
Walkway (Walkway >= 10 feet wide)	297 ft2	0.10	No	29.700000000000003
Total Tradable Watts (a):				704.86
Base Site Allowance (b):				400
Total Allowed Watts:				1124.86

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A base site allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Drive-Thru Window (Drive-up windows/doors, 1 windows or doors): Tradeable Wattage				
SD/SDE: SD/SDE: LED:	0	1	30	30
Building Facade (Illuminated area of facade wall or surface, 1840 ft2): Tradeable Wattage				
SD/SDE: SD/SDE: LED:	0	6	30	180
SF: SF: LED:	0	92	3	276
Driveway (Driveway, 13646 ft2): Tradeable Wattage				
SA: SA: LED:	0	3	94	282
Parking Area (Parking area, 1373 ft2): Tradeable Wattage				
SA: SA: LED:	0	1	94	94
Vehicle Entrance (Pedestrian and vehicular entrances and exits, 1 ft of door width): Tradeable Wattage				
SA: SA: LED:	0	1	94	94
Landscaping (Landscaping, 1510 ft2): Tradeable Wattage				
SA: SA: LED:	0	1	94	94
Walkway (Walkway >= 10 feet wide, 297 ft2): Tradeable Wattage				
SD/SDE: SD/SDE: LED:	0	1	30	30
Total Tradable Proposed Watts:				594

Proposed Exterior Lighting Controls

Fixture	Lighting Control
Drive-Thru Window (Drive-up windows/doors, 1 windows or doors)	
SD/SDE: SD/SDE: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
Building Facade (Illuminated area of facade wall or surface, 1840 ft2)	
SD/SDE: SD/SDE: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
SF: SF: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
Driveway (Driveway, 13646 ft2)	
SA: SA: LED:	Daylight Shutoff, Exterior Timeswitch
Parking Area (Parking area, 1373 ft2)	
SA: SA: LED:	Daylight Shutoff, Exterior Timeswitch
Vehicle Entrance (Pedestrian and vehicular entrances and exits, 1 ft of door width)	
SA: SA: LED:	Daylight Shutoff, Exterior Timeswitch
Landscaping (Landscaping, 1510 ft2)	
SA: SA: LED:	Daylight Shutoff, Facade or Landscape, Exterior Timeswitch
Walkway (Walkway >= 10 feet wide, 297 ft2)	
SD/SDE: SD/SDE: LED:	Daylight Shutoff, Exterior Timeswitch

Exterior Lighting PASSES: Design 25% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ROBERT L. QUEATHEM 2026.04.09

Name - Title **Signature** **Date**

Inspection Checklist

Energy Code: 2018 IECC

Requirements: 0% were addressed directly in the COMcheck 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.

Plan Review

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
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 Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Rough-In Electrical Inspection

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 Comply ☐ Not Observable ☐ Not Applicable	
C405.2.5 [EL28][s]	Manual controls required by the energy code are in a location with ready access to occupants and located where the controlled lights are visible, or identify the area served and their status.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.2.6 [EL30][s]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C405.6 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
C405.9 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
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 Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	
C405.2.4 [EL26][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
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 Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

Final Inspection

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 Comply ☐ Not Observable ☐ Not Applicable	
C405.3.1 [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 Comply ☐ Not Observable ☐ Not Applicable	*See the Interior Lighting fixture schedule for values*
C405.4.1 [FI19][1]	Exterior 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 Comply ☐ Not Observable ☐ Not Applicable	*See the Exterior 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 Comply ☐ Not Observable ☐ Not Applicable	
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐ Complies ☐ Does Not Comply ☐ Not Observable ☐ Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)

REGISTRATION SEAL
NORTH CAROLINA SEAL 035265 ENGINEER ROBERT L. QUEATHEM
4/10/26

ROBERT L. QUEATHEM
ENGINEER
1950 CRAIG ROAD, SUITE 300
ST. LOUIS, MO 63146
PH. (314) 415-2400
FAX (314) 415-2300
www.arcv.com

SCOOTER'S COFFEE EST. 1998

REV	DATE	DESCRIPTION	BY
1	04/06/26	HEALTH COMMENTS	SW
2			
3			
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TITLE:
ELECTRICAL ENERGY FORMS

PROJECT ADDRESS:
503 E. JACKSON BLVD
ERWIN, NC 28339

FRANCHISEE & STORE NUMBER:
SCOOTER'S COFFEE #2946
JF BREW LLC

KIOSK PROTOTYPE:
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