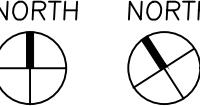
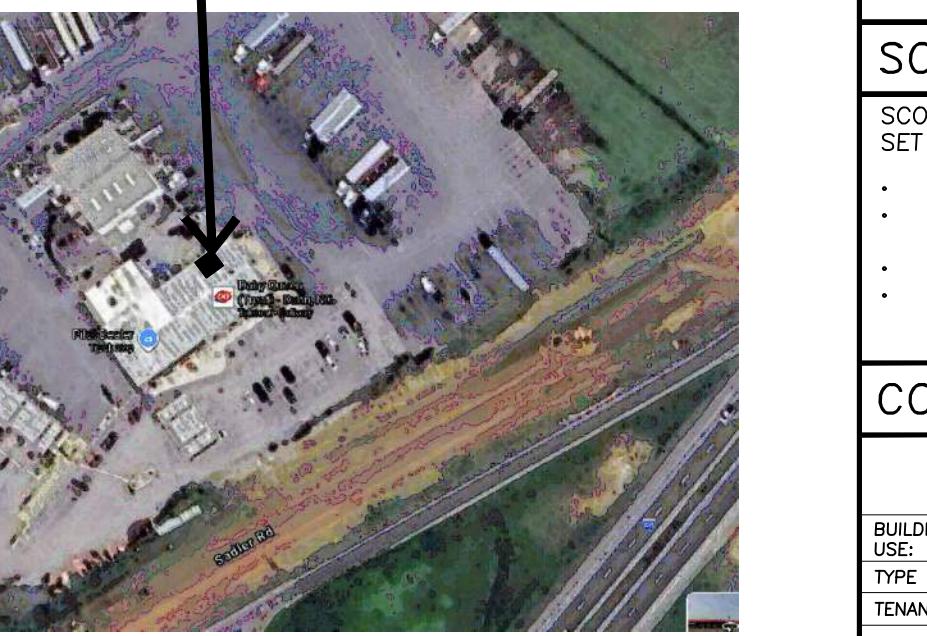
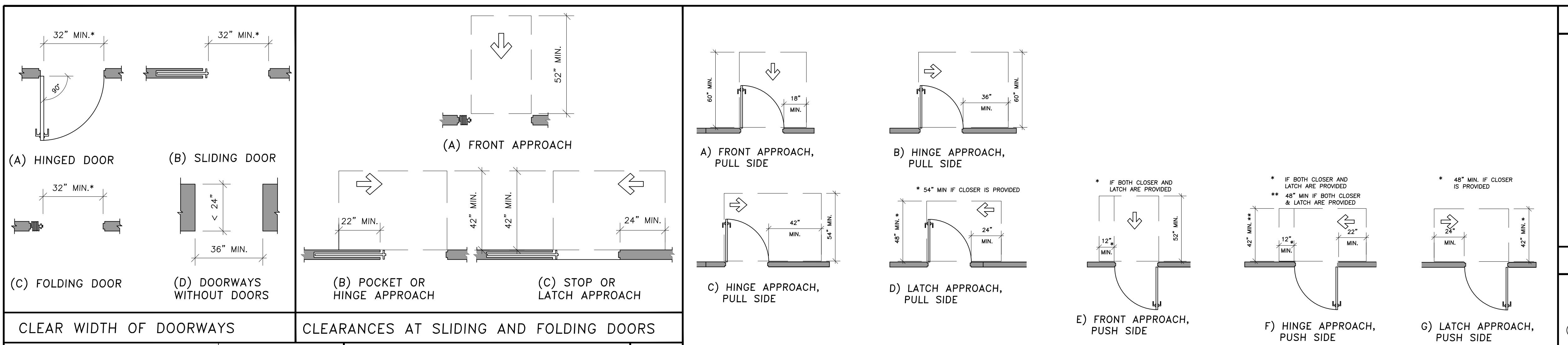




65 SADLER ROAD  
(PART OF THE PILOT TRAVEL C-STORE)  
DUNN, NC 28334

# Reviewed for Fire Code Compliance

LOCATION MAP		PROJECT CONTACTS			LIST OF DRAWINGS																																																																																																																																																																							
<div style="display: flex; align-items: center;"> <span>TRUE NORTH</span> <span>PLAN NORTH</span>   </div> <div style="display: flex; align-items: center;">  </div>		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><b>RESTAURANT OWNER</b></p> <p>HERMIE SADLER FIREHOUSE SUBS FRANCHISEE TELE: (434) 594-7193</p> </div> <div style="width: 30%;"> <p><b>ARCHITECT</b></p> <p>JON W. SAMMER, AIA CONTACT: JOHN A. HARROP, PROJECT MANAGER 4101 CHAIN BRIDGE ROAD., SUITE 102 FAIRFAX, VA 22030 DIRECT: (703) 216-7897</p> </div> <div style="width: 30%;"> <p><b>CONSULTANTS</b></p> <p><b>ELECTRICAL, MECHANICAL, PLUMBING:</b> CONVERGE ENGINEERING, LLC CONTACT: JUSTIN HARDY, PE 54 SOUTH AVE, SE, MARIETTA, GA 30060. TELE: (404) 800-7988</p> </div> </div>			<table border="1"> <thead> <tr> <th>SHEET #</th> <th>SHEET TITLE</th> <th>DATE</th> <th>REVISION #</th> </tr> </thead> <tbody> <tr> <td colspan="4">ARCHITECTURAL</td> </tr> <tr> <td>CS1</td> <td>BUILDING CODE SUMMARY, COVER SHEET &amp; KEY PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>CS1.1</td> <td>APPENDIX B</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>CS2</td> <td>ACCESSIBILITY STANDARDS &amp; DETAILS</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>CS3</td> <td>LIFE SAFETY &amp; OCCUPANT LOAD PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>D1.0</td> <td>EXISTING CONDITIONS PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>A1.0</td> <td>CONSTRUCTION PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>A1.1</td> <td>DIMENSION PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>A1.2</td> <td>EQUIPMENT PLAN &amp; EQUIPMENT SCHEDULE</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>A1.3</td> <td>FINISH PLAN &amp; FINISH SCHEDULE</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>A1.4</td> <td>REFLECTED CEILING PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>A5.1</td> <td>INTERIOR ELEVATIONS</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>A8.1</td> <td>INTERIOR DETAILS: CUSTOMER AREA</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td colspan="4">ELECTRICAL</td> </tr> <tr> <td>E0.0</td> <td>ELECTRICAL LEGEND &amp; SPECS</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>E1.0</td> <td>ELECTRICAL POWER PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>E1.1</td> <td>EQUIPMENT SCHEDULE</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>E2.0</td> <td>ELECTRICAL LIGHTING PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>E3.0</td> <td>MECHANICAL POWER PLAN</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>E4.0</td> <td>ELECTRICAL RISER DIAGRAM</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td colspan="4">PLUMBING</td> </tr> <tr> <td>MP1.0</td> <td>PLUMBING SPECIFICATIONS</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>P0.1</td> <td>PLUMBING REFERENCE</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td>P1.0</td> <td>PLUMBING PLANS</td> <td>2/14/2025</td> <td></td> </tr> <tr> <td colspan="4">VENDOR CONTACT LIST</td> </tr> <tr> <td colspan="4"> <p><b>THE USE OF ANY VENDOR THAT IS NOT LISTED ABOVE IS PROHIBITED UNLESS PRE-AUTHORIZED BY FIREHOUSE SUBS</b></p> </td> </tr> <tr> <td colspan="4"> <table border="1"> <tr> <td colspan="2">DATALINE:</td> </tr> <tr> <td colspan="2">TERRI MILLER</td> </tr> <tr> <td colspan="2">EMAIL: terri.miller@datline.com</td> </tr> <tr> <td colspan="2">Office: (216) 409-3153</td> </tr> <tr> <td colspan="2">PAINT</td> </tr> <tr> <td colspan="2">SHERWIN-WILLIAMS: JOY BABUR OFFICE: (404) 694-7994 ADDRESS: 1111 MORTHLAKE PKWY, SUITE 107 TUCKER, GA 30084</td> </tr> <tr> <td colspan="2">SWING GATE</td> </tr> <tr> <td colspan="2">ELASION CORPORATION: H.C. FARRIS OFFICE: (800) 828-3655 FAX: (800) 828-3577 EMAIL: quotes-orders@seneca.com</td> </tr> <tr> <td colspan="2">LIGHTING FIXTURES</td> </tr> <tr> <td colspan="2">JACKSON LIGHTING: EMAIL: firehousesubs@jlesco.com PHONE: (866) 526-8956</td> </tr> <tr> <td colspan="2">TARRANT LIGHTING (ALTERNATE): WEBSITE: https://tarrantlighting.com</td> </tr> <tr> <td colspan="2">CRANE COMPOSITES (FRP BOARD)</td> </tr> <tr> <td colspan="2">LOCAL DISTRIBUTION PERSONNEL WILL CONTACT THE CRANE &amp; SUBS ACCOUNT JOHN MCGOWAN, CSL CCPR OFFICE: (704) 830-8653 RYAN MINATO OFFICE: (704) 467-8951 EMAIL: www.firehousesubs@crane.composites.com</td> </tr> </table> </td> </tr> <tr> <td colspan="4"> <p><b>DUNN, NORTH CAROLINA</b></p> </td> </tr> <tr> <td colspan="4"> <p>SEAL:</p> </td> </tr> <tr> <td colspan="4"> <p>I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7676, EXPIRATION DATE 06/30/2026.</p> </td> </tr> <tr> <td colspan="4"> <p>SCALE: AS SHOWN</p> </td> </tr> <tr> <td colspan="4"> <p>PROJECT NO. FSDN_2509</p> </td> </tr> <tr> <td colspan="4"> <p>SHEET TITLE: BUILDING CODE SUMMARY, COVER SHEET &amp; KEY PLAN</p> </td> </tr> <tr> <td colspan="4"> <p>SHEET NUMBER: CS1</p> </td> </tr> </tbody> </table>		SHEET #	SHEET TITLE	DATE	REVISION #	ARCHITECTURAL				CS1	BUILDING CODE SUMMARY, COVER SHEET & KEY PLAN	2/14/2025		CS1.1	APPENDIX B	2/14/2025		CS2	ACCESSIBILITY STANDARDS & DETAILS	2/14/2025		CS3	LIFE SAFETY & OCCUPANT LOAD PLAN	2/14/2025		D1.0	EXISTING CONDITIONS PLAN	2/14/2025		A1.0	CONSTRUCTION PLAN	2/14/2025		A1.1	DIMENSION PLAN	2/14/2025		A1.2	EQUIPMENT PLAN & EQUIPMENT SCHEDULE	2/14/2025		A1.3	FINISH PLAN & FINISH SCHEDULE	2/14/2025		A1.4	REFLECTED CEILING PLAN	2/14/2025		A5.1	INTERIOR ELEVATIONS	2/14/2025		A8.1	INTERIOR DETAILS: CUSTOMER AREA	2/14/2025		ELECTRICAL				E0.0	ELECTRICAL LEGEND & SPECS	2/14/2025		E1.0	ELECTRICAL POWER PLAN	2/14/2025		E1.1	EQUIPMENT SCHEDULE	2/14/2025		E2.0	ELECTRICAL LIGHTING PLAN	2/14/2025		E3.0	MECHANICAL POWER PLAN	2/14/2025		E4.0	ELECTRICAL RISER DIAGRAM	2/14/2025		PLUMBING				MP1.0	PLUMBING SPECIFICATIONS	2/14/2025		P0.1	PLUMBING REFERENCE	2/14/2025		P1.0	PLUMBING PLANS	2/14/2025		VENDOR CONTACT LIST				<p><b>THE USE OF ANY VENDOR THAT IS NOT LISTED ABOVE IS PROHIBITED UNLESS PRE-AUTHORIZED BY FIREHOUSE SUBS</b></p>				<table border="1"> <tr> <td colspan="2">DATALINE:</td> </tr> <tr> <td colspan="2">TERRI MILLER</td> </tr> <tr> <td colspan="2">EMAIL: terri.miller@datline.com</td> </tr> <tr> <td colspan="2">Office: (216) 409-3153</td> </tr> <tr> <td colspan="2">PAINT</td> </tr> <tr> <td colspan="2">SHERWIN-WILLIAMS: JOY BABUR OFFICE: (404) 694-7994 ADDRESS: 1111 MORTHLAKE PKWY, SUITE 107 TUCKER, GA 30084</td> </tr> <tr> <td colspan="2">SWING GATE</td> </tr> <tr> <td colspan="2">ELASION CORPORATION: H.C. FARRIS OFFICE: (800) 828-3655 FAX: (800) 828-3577 EMAIL: quotes-orders@seneca.com</td> </tr> <tr> <td colspan="2">LIGHTING FIXTURES</td> </tr> <tr> <td colspan="2">JACKSON LIGHTING: EMAIL: firehousesubs@jlesco.com PHONE: (866) 526-8956</td> </tr> <tr> <td colspan="2">TARRANT LIGHTING (ALTERNATE): WEBSITE: https://tarrantlighting.com</td> </tr> <tr> <td colspan="2">CRANE COMPOSITES (FRP BOARD)</td> </tr> <tr> <td colspan="2">LOCAL DISTRIBUTION PERSONNEL WILL CONTACT THE CRANE &amp; SUBS ACCOUNT JOHN MCGOWAN, CSL CCPR OFFICE: (704) 830-8653 RYAN MINATO OFFICE: (704) 467-8951 EMAIL: www.firehousesubs@crane.composites.com</td> </tr> </table>				DATALINE:		TERRI MILLER		EMAIL: terri.miller@datline.com		Office: (216) 409-3153		PAINT		SHERWIN-WILLIAMS: JOY BABUR OFFICE: (404) 694-7994 ADDRESS: 1111 MORTHLAKE PKWY, SUITE 107 TUCKER, GA 30084		SWING GATE		ELASION CORPORATION: H.C. FARRIS OFFICE: (800) 828-3655 FAX: (800) 828-3577 EMAIL: quotes-orders@seneca.com		LIGHTING FIXTURES		JACKSON LIGHTING: EMAIL: firehousesubs@jlesco.com PHONE: (866) 526-8956		TARRANT LIGHTING (ALTERNATE): WEBSITE: https://tarrantlighting.com		CRANE COMPOSITES (FRP BOARD)		LOCAL DISTRIBUTION PERSONNEL WILL CONTACT THE CRANE & SUBS ACCOUNT JOHN MCGOWAN, CSL CCPR OFFICE: (704) 830-8653 RYAN MINATO OFFICE: (704) 467-8951 EMAIL: www.firehousesubs@crane.composites.com		<p><b>DUNN, NORTH CAROLINA</b></p>				<p>SEAL:</p>				<p>I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7676, EXPIRATION DATE 06/30/2026.</p>				<p>SCALE: AS SHOWN</p>				<p>PROJECT NO. FSDN_2509</p>				<p>SHEET TITLE: BUILDING CODE SUMMARY, COVER SHEET &amp; KEY PLAN</p>				<p>SHEET NUMBER: CS1</p>			
SHEET #	SHEET TITLE	DATE	REVISION #																																																																																																																																																																									
ARCHITECTURAL																																																																																																																																																																												
CS1	BUILDING CODE SUMMARY, COVER SHEET & KEY PLAN	2/14/2025																																																																																																																																																																										
CS1.1	APPENDIX B	2/14/2025																																																																																																																																																																										
CS2	ACCESSIBILITY STANDARDS & DETAILS	2/14/2025																																																																																																																																																																										
CS3	LIFE SAFETY & OCCUPANT LOAD PLAN	2/14/2025																																																																																																																																																																										
D1.0	EXISTING CONDITIONS PLAN	2/14/2025																																																																																																																																																																										
A1.0	CONSTRUCTION PLAN	2/14/2025																																																																																																																																																																										
A1.1	DIMENSION PLAN	2/14/2025																																																																																																																																																																										
A1.2	EQUIPMENT PLAN & EQUIPMENT SCHEDULE	2/14/2025																																																																																																																																																																										
A1.3	FINISH PLAN & FINISH SCHEDULE	2/14/2025																																																																																																																																																																										
A1.4	REFLECTED CEILING PLAN	2/14/2025																																																																																																																																																																										
A5.1	INTERIOR ELEVATIONS	2/14/2025																																																																																																																																																																										
A8.1	INTERIOR DETAILS: CUSTOMER AREA	2/14/2025																																																																																																																																																																										
ELECTRICAL																																																																																																																																																																												
E0.0	ELECTRICAL LEGEND & SPECS	2/14/2025																																																																																																																																																																										
E1.0	ELECTRICAL POWER PLAN	2/14/2025																																																																																																																																																																										
E1.1	EQUIPMENT SCHEDULE	2/14/2025																																																																																																																																																																										
E2.0	ELECTRICAL LIGHTING PLAN	2/14/2025																																																																																																																																																																										
E3.0	MECHANICAL POWER PLAN	2/14/2025																																																																																																																																																																										
E4.0	ELECTRICAL RISER DIAGRAM	2/14/2025																																																																																																																																																																										
PLUMBING																																																																																																																																																																												
MP1.0	PLUMBING SPECIFICATIONS	2/14/2025																																																																																																																																																																										
P0.1	PLUMBING REFERENCE	2/14/2025																																																																																																																																																																										
P1.0	PLUMBING PLANS	2/14/2025																																																																																																																																																																										
VENDOR CONTACT LIST																																																																																																																																																																												
<p><b>THE USE OF ANY VENDOR THAT IS NOT LISTED ABOVE IS PROHIBITED UNLESS PRE-AUTHORIZED BY FIREHOUSE SUBS</b></p>																																																																																																																																																																												
<table border="1"> <tr> <td colspan="2">DATALINE:</td> </tr> <tr> <td colspan="2">TERRI MILLER</td> </tr> <tr> <td colspan="2">EMAIL: terri.miller@datline.com</td> </tr> <tr> <td colspan="2">Office: (216) 409-3153</td> </tr> <tr> <td colspan="2">PAINT</td> </tr> <tr> <td colspan="2">SHERWIN-WILLIAMS: JOY BABUR OFFICE: (404) 694-7994 ADDRESS: 1111 MORTHLAKE PKWY, SUITE 107 TUCKER, GA 30084</td> </tr> <tr> <td colspan="2">SWING GATE</td> </tr> <tr> <td colspan="2">ELASION CORPORATION: H.C. FARRIS OFFICE: (800) 828-3655 FAX: (800) 828-3577 EMAIL: quotes-orders@seneca.com</td> </tr> <tr> <td colspan="2">LIGHTING FIXTURES</td> </tr> <tr> <td colspan="2">JACKSON LIGHTING: EMAIL: firehousesubs@jlesco.com PHONE: (866) 526-8956</td> </tr> <tr> <td colspan="2">TARRANT LIGHTING (ALTERNATE): WEBSITE: https://tarrantlighting.com</td> </tr> <tr> <td colspan="2">CRANE COMPOSITES (FRP BOARD)</td> </tr> <tr> <td colspan="2">LOCAL DISTRIBUTION PERSONNEL WILL CONTACT THE CRANE &amp; SUBS ACCOUNT JOHN MCGOWAN, CSL CCPR OFFICE: (704) 830-8653 RYAN MINATO OFFICE: (704) 467-8951 EMAIL: www.firehousesubs@crane.composites.com</td> </tr> </table>				DATALINE:		TERRI MILLER		EMAIL: terri.miller@datline.com		Office: (216) 409-3153		PAINT		SHERWIN-WILLIAMS: JOY BABUR OFFICE: (404) 694-7994 ADDRESS: 1111 MORTHLAKE PKWY, SUITE 107 TUCKER, GA 30084		SWING GATE		ELASION CORPORATION: H.C. FARRIS OFFICE: (800) 828-3655 FAX: (800) 828-3577 EMAIL: quotes-orders@seneca.com		LIGHTING FIXTURES		JACKSON LIGHTING: EMAIL: firehousesubs@jlesco.com PHONE: (866) 526-8956		TARRANT LIGHTING (ALTERNATE): WEBSITE: https://tarrantlighting.com		CRANE COMPOSITES (FRP BOARD)		LOCAL DISTRIBUTION PERSONNEL WILL CONTACT THE CRANE & SUBS ACCOUNT JOHN MCGOWAN, CSL CCPR OFFICE: (704) 830-8653 RYAN MINATO OFFICE: (704) 467-8951 EMAIL: www.firehousesubs@crane.composites.com																																																																																																																																																
DATALINE:																																																																																																																																																																												
TERRI MILLER																																																																																																																																																																												
EMAIL: terri.miller@datline.com																																																																																																																																																																												
Office: (216) 409-3153																																																																																																																																																																												
PAINT																																																																																																																																																																												
SHERWIN-WILLIAMS: JOY BABUR OFFICE: (404) 694-7994 ADDRESS: 1111 MORTHLAKE PKWY, SUITE 107 TUCKER, GA 30084																																																																																																																																																																												
SWING GATE																																																																																																																																																																												
ELASION CORPORATION: H.C. FARRIS OFFICE: (800) 828-3655 FAX: (800) 828-3577 EMAIL: quotes-orders@seneca.com																																																																																																																																																																												
LIGHTING FIXTURES																																																																																																																																																																												
JACKSON LIGHTING: EMAIL: firehousesubs@jlesco.com PHONE: (866) 526-8956																																																																																																																																																																												
TARRANT LIGHTING (ALTERNATE): WEBSITE: https://tarrantlighting.com																																																																																																																																																																												
CRANE COMPOSITES (FRP BOARD)																																																																																																																																																																												
LOCAL DISTRIBUTION PERSONNEL WILL CONTACT THE CRANE & SUBS ACCOUNT JOHN MCGOWAN, CSL CCPR OFFICE: (704) 830-8653 RYAN MINATO OFFICE: (704) 467-8951 EMAIL: www.firehousesubs@crane.composites.com																																																																																																																																																																												
<p><b>DUNN, NORTH CAROLINA</b></p>																																																																																																																																																																												
<p>SEAL:</p>																																																																																																																																																																												
<p>I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7676, EXPIRATION DATE 06/30/2026.</p>																																																																																																																																																																												
<p>SCALE: AS SHOWN</p>																																																																																																																																																																												
<p>PROJECT NO. FSDN_2509</p>																																																																																																																																																																												
<p>SHEET TITLE: BUILDING CODE SUMMARY, COVER SHEET &amp; KEY PLAN</p>																																																																																																																																																																												
<p>SHEET NUMBER: CS1</p>																																																																																																																																																																												



**GENERAL NOTES**

A. REFER TO CODE ANALYSIS ON COVER SHEET FOR REFERENCED ACCESSIBILITY CODES.  
B. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.

**HANDICAP ACCESSIBLE CURBS**

CIVIL ENGINEERING DRAWINGS, WHEN PRESENT, SHALL TAKE PRECEDENCE REGARDING DETAILS FOR HANDICAPPED ACCESS THE PARKING LOT TO THE BUILDING.

**1 CURB RAMPS**

A. CURB RAMPS SHALL BE CONSTRUCTED AT EACH CORNER OF STREET INTERSECTIONS AND WHERE A PEDESTRIAN WAY CROSSES A CURB. THE PREFERRED AND RECOMMENDED LOCATION FOR CURB RAMPS IS IN THE CENTER OF THE CROSSWALK OF EACH STREET CORNER, WHERE IT IS NECESSARY TO LOCATE A CURB RAMP IN THE CENTER OF THE CURB RETURN AND THE STREET SURFACES ARE MARKED TO IDENTIFY PEDESTRIAN CROSSWALKS, THE LOWER END OF THE CURB RAMPS SHALL TERMINATE WITHIN SUCH CROSSWALKS.  
B. CURB RAMPS SHALL BE A MINIMUM OF 3 FEET IN WIDTH AND SHALL LIE, GENERALLY, IN A SINGLE SLOPED PLANE WITH A MINIMUM OF SURFACE WARPING AND CROSS SLOPE.  
C. BUILT-UP CURB RAMPS SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO VEHICULAR TRAFFIC LANES.  
D. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS EXCLUDING ANY FLARED SIDES.  
406.12 Detectable Warnings at Raised Marked Crossings. Marked crossings that are raised to the same level as the adjoining sidewalk shall be preceded by a detectable warning 24 inches (610 mm) in depth complying with Section 705. The detectable warning shall extend the full width of the marked crossing.

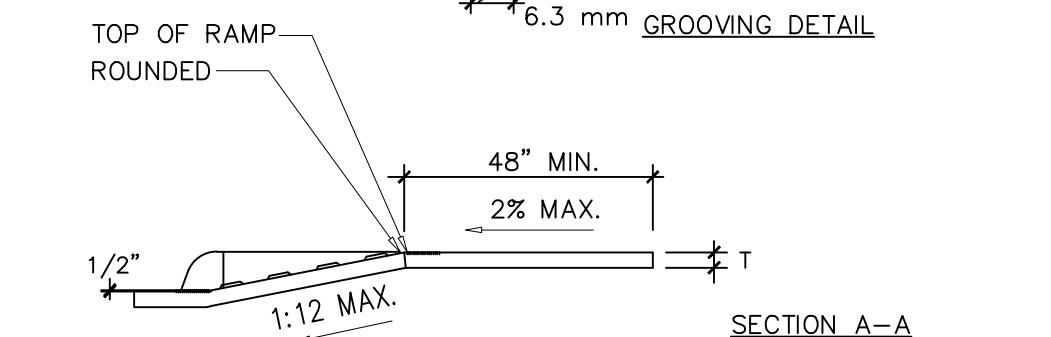
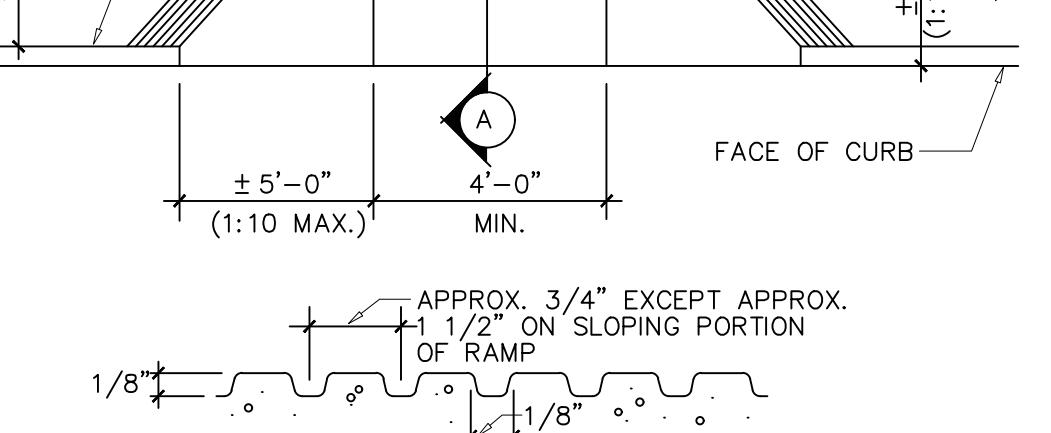
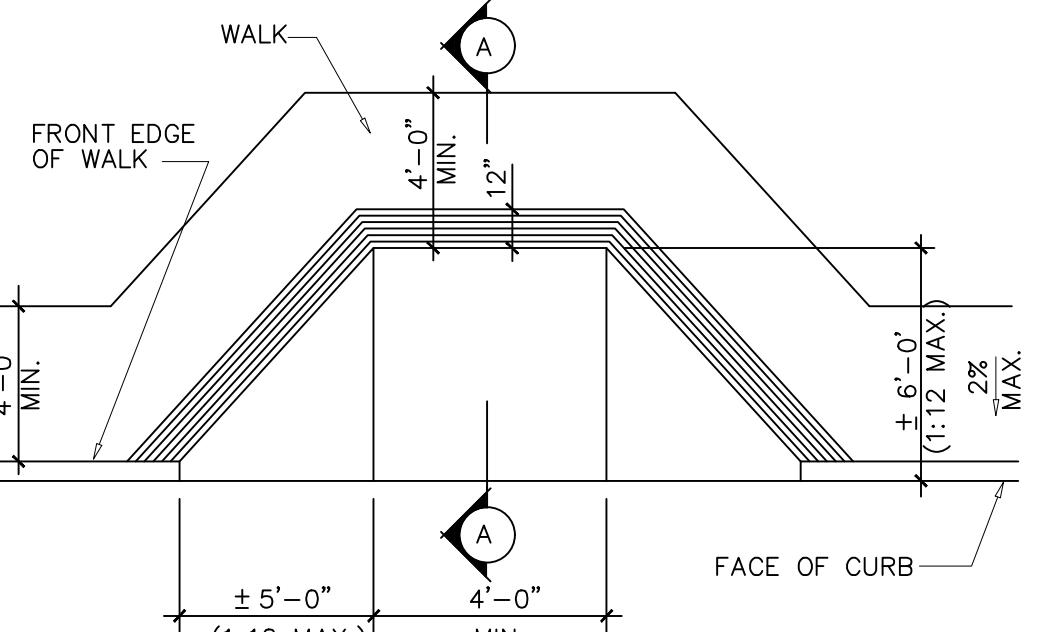
E. THE SLOPE OF CURB RAMPS SHALL NOT EXCEED 1 VERTICAL TO 12 HORIZONTAL. THE SLOPE OF THE FANNED OR FLARED SIDES OF CURB RAMPS SHALL NOT EXCEED 10 TO 1 HORIZONTAL.

F. A LEVEL LANDING 4 FEET DEEP SHALL BE PROVIDED AT THE UPPER END OF EACH CURB RAMP OVER ITS FULL WIDTH TO PERMIT SAFE EGRESS FROM THE RAMP SURFACE, OR THE SLOPE OF THE FANNED OR FLARED SIDES OF THE CURB RAMP SHALL NOT EXCEED 1 VERTICAL TO 12 HORIZONTAL.

G. THE LOWER END OF EACH CURB RAMP SHALL BE FLUSH WITH ADJACENT SURFACE.

H. THE SURFACE OF EACH CURB RAMP AND ITS FLARED SIDES SHALL BE STABLE, FIRM AND SLIP RESISTANT AND SHALL BE OF A CONTRASTING FINISH FROM THAT OF THE ADJACENT SIDEWALK.

I. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED CARS.  
J. IF DIAGONAL CURB RAMPS HAVE RETURNED CURBS OR OTHER WELL-DEFINED EDGES, SUCH EDGES SHALL BE PARALLEL TO THE DIRECTION OF PEDESTRIAN TRAVEL. DIAGONAL CURB RAMPS SHALL HAVE 48 INCHES MINIMUM CLEAR SPACE. IF DIAGONAL CURB RAMPS ARE PROVIDED AT MARKED CROSSINGS, THE 48 INCH CLEAR SPACE SHALL BE WITHIN THE MARKINGS. IF DIAGONAL CURB RAMPS HAVE FLARED SIDES, THEY SHALL ALSO HAVE AT LEAST A 24 INCH LONG SEGMENT OF STRAIGHT CURB LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING.



**2 WALKS AND SIDEWALKS**

A. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/4 INCH, AND SHALL BE A MINIMUM OF 4 FEET IN WIDTH.  
B. SURFACES WITH A SLOPE OF LESS THAN 4 PERCENT GRADIENT SHALL BE AT LEAST AS SLIP RESISTANT AS THAT DESCRIBED AS A MEDIUM SALTED FINISH.  
C. SURFACES WITH A SLOPE OF 6 PERCENT GRADIENT OR GREATER SHALL BE SLIP-RESISTANT.  
D. SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4 INCH FOR FOOD AREAS.  
E. WALKS AND SIDEWALKS THAT POSSIBLY COULD BE FREE OF GRATING WHENEVER POSSIBLE FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN GRATINGS SHALL BE PERPENDICULAR TO THE PROMINENT DIRECTION OF TRAVEL, AND A MAXIMUM OF 1/2 INCH IN SIZE.  
F. WHEN A WALK IS LOCATED ON A SLOPED SURFACE, THE WALK EXCEEDS 1 VERTICAL TO 20 HORIZONTAL IT SHALL ONLY BE PROVIDED BY PEDESTRIAN RAMPS.  
G. ABRUPT CHANGES IN LEVEL ALONG ANY ACCESSIBLE ROUTE SHALL NOT EXCEED 1/2 INCH. WHEN CHANGES IN LEVEL DO OCCUR, THEY SHALL BE CEBLED WITH A SLOPE NO GREATER THAN 1:2 EXCEPT THAT LEVEL CHANGES NOT EXCEEDING 1/4 INCH IN LENGTH SHALL NOT BE CEBLED.  
H. WALKS SHALL BE PROVIDED WITH A LEVEL AREA NOT LESS THAN 60 INCHES BY 60 INCHES AT A DOOR OR GATE THAT SWINGS TOWARD THE WALK, AND NOT LESS THAN 48 INCHES WIDE BY 44 INCHES DEEP THAT A DOOR OR GATE OR THAT SWINGS TOWARD THE WALK. SIDEWALKS SHALL EXTEND 24 INCHES TO THE SIDE OF THE STRIKE EDGE OF A DOOR OR GATE THAT SWINGS TOWARD THE WALK.  
I. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE LEVEL AREAS OF AT LEAST 5 FEET IN LENGTH AT INTERVALS OF 10 FEET.  
J. IF A WALK CROSSES OR ADJACENTS A VEHICULAR WAY, AND THE WALKING SURFACES ARE NOT SEPARATED BY CURBS, RAILINGS OR OTHER ELEMENTS BETWEEN THE PEDESTRIAN AREAS AND VEHICULAR AREAS, THE BOUNDARY BETWEEN THE AREAS SHALL BE DEFINED BY A CONTINUOUS DETECTABLE WARNING WHICH IS 36 INCHES WIDE. SEE DETECTABLE WARNING TEXTURE DETAIL.

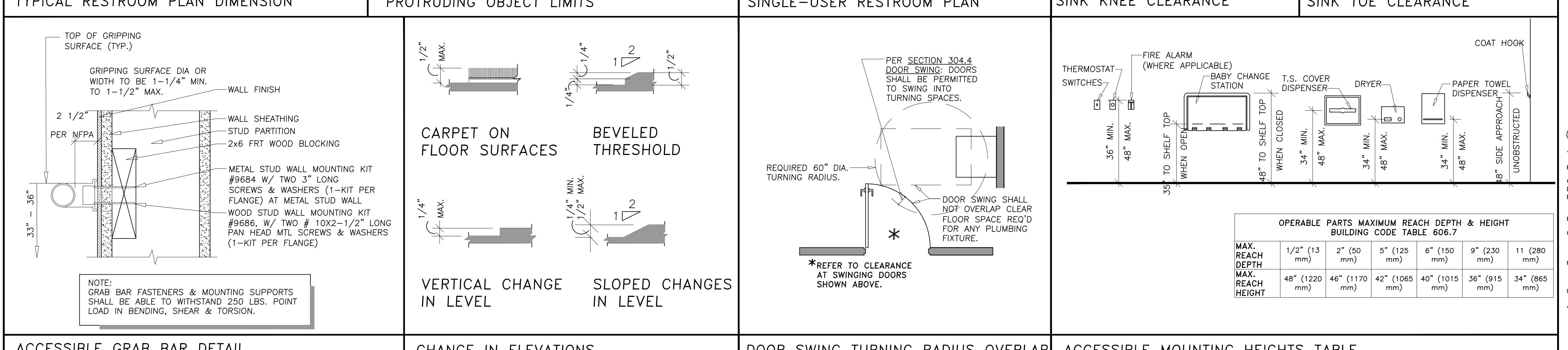
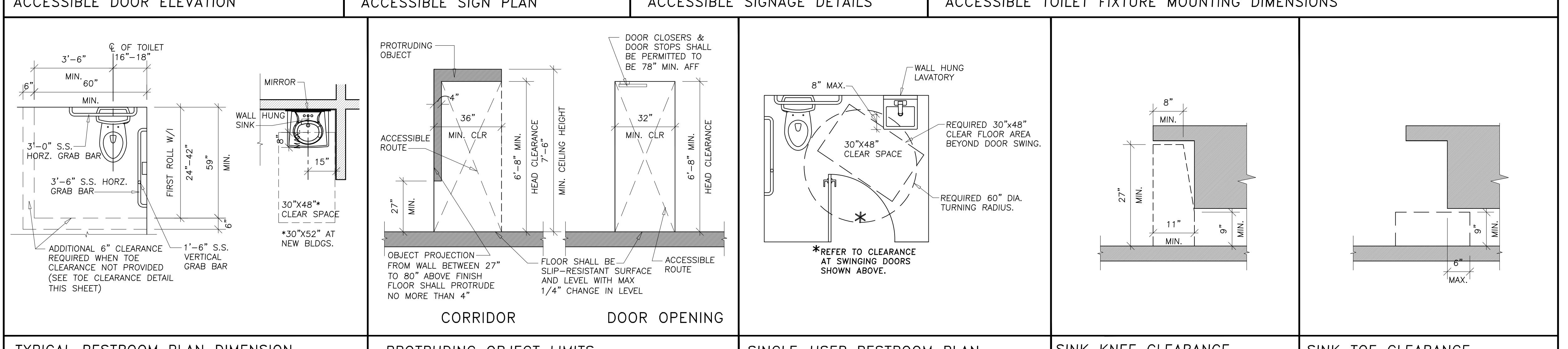
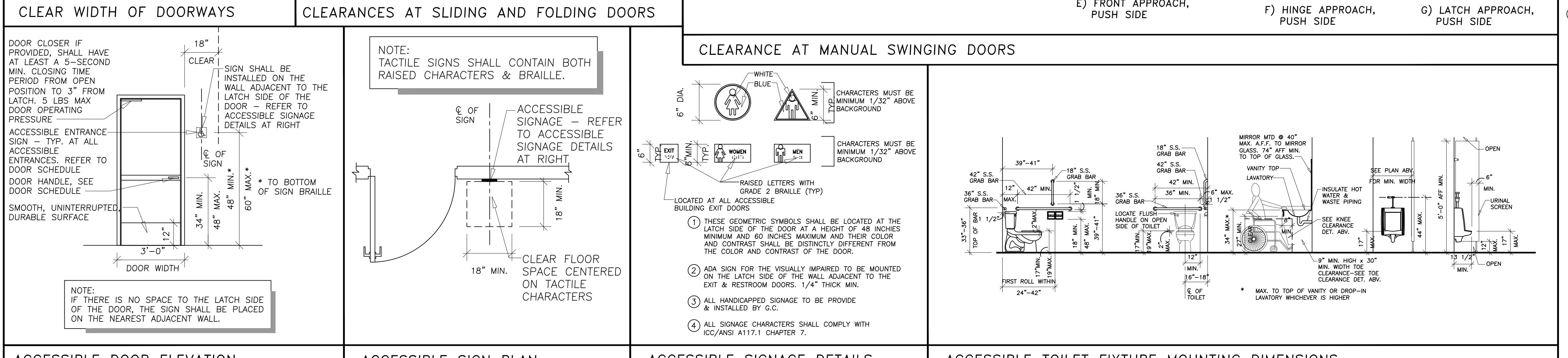
I. CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7678, EXPIRATION DATE 06/30/2026.

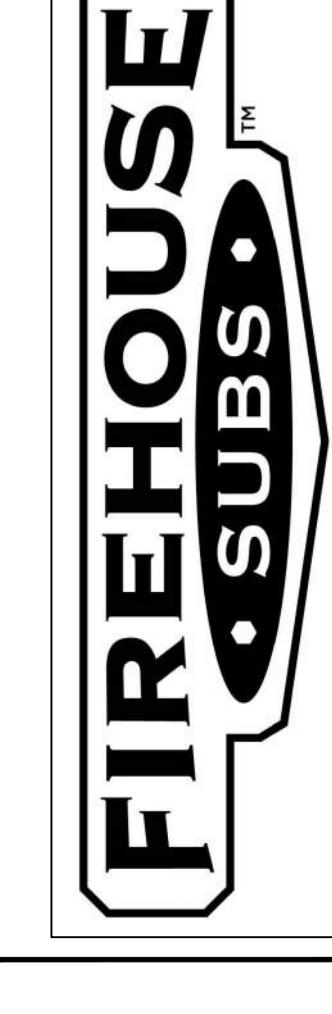
SCALE: **N.T.S.** u.s. PROJECT NO. **FSDN\_2509**

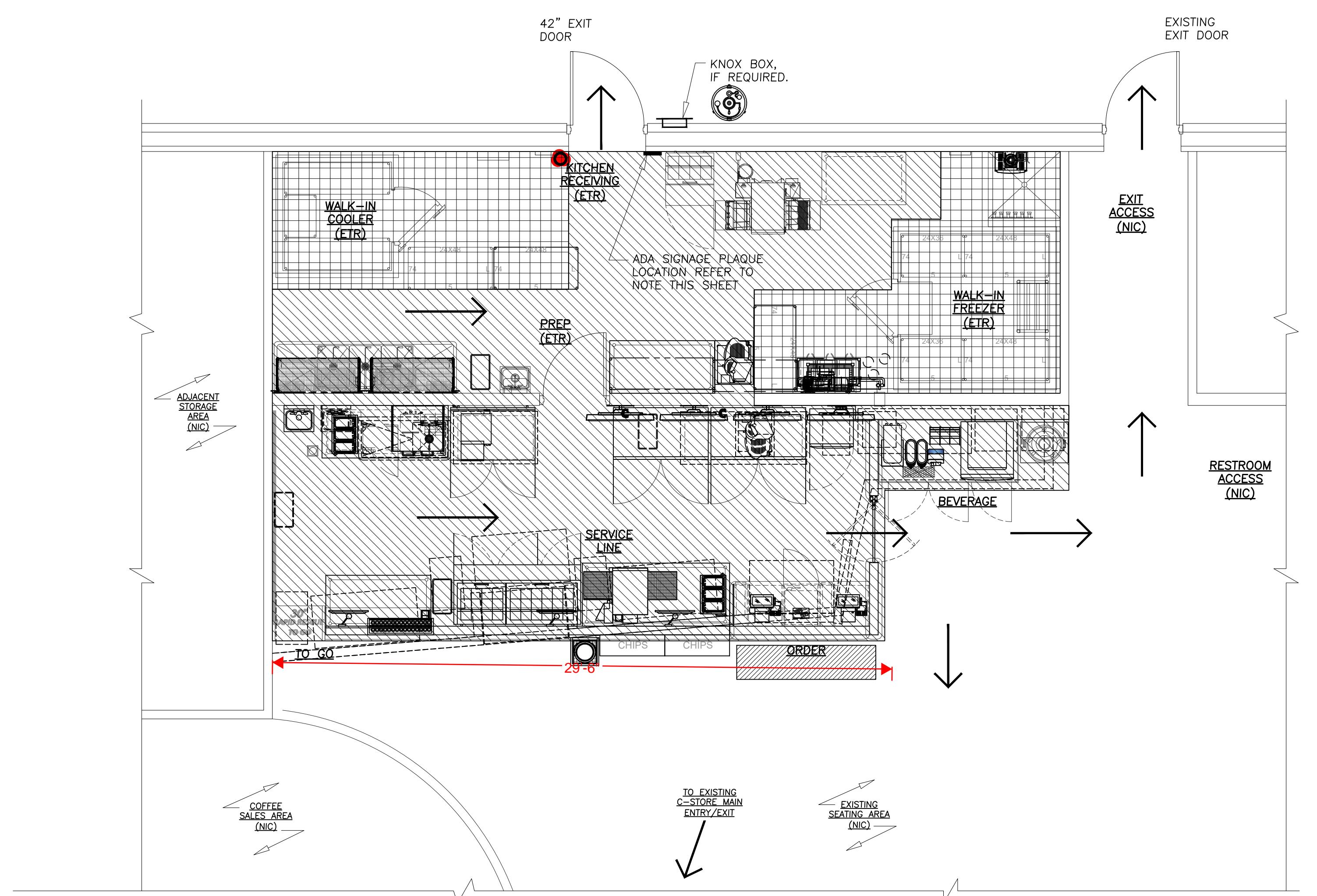
SHEET TITLE: **ACCESSIBILITY STANDARDS & DETAILS**

SHEET NUMBER: **CS2**

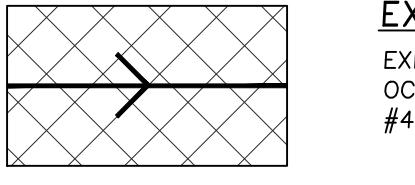
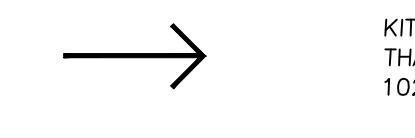
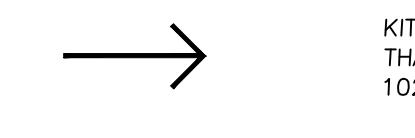
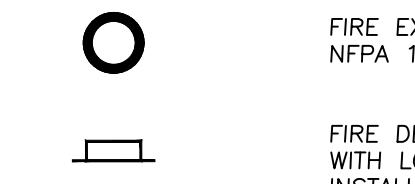
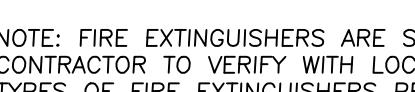
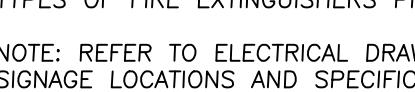
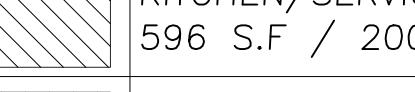
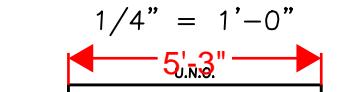
OF



BUILDING CODE SUMMARY																																																																																																																																																
2021 APPENDIX B BUILDING CODE SUMMARY																																																																																																																																																
PROJECT INFORMATION																																																																																																																																																
<p>NAME OF PROJECT: FIREHOUSE SUBS ADDRESS: 65 SADLER ROAD ZIP: 28334 PROPOSED USE: BUSINESS - NO CHANGE IN USE OWNER/AUTHORIZED AGENT: FIREHOUSE SUBS OWNED BY: <input type="checkbox"/> CITY/COUNTY <input checked="" type="checkbox"/> PRIVATE <input type="checkbox"/> STATE CODE ENFORCEMENT JURISDICTION: <input type="checkbox"/> CITY <input checked="" type="checkbox"/> COUNTY HARNETT <input type="checkbox"/> STATE</p>																																																																																																																																																
CONTACT																																																																																																																																																
<p>LEAD DESIGN PROFESSIONAL: JON W. SAMMER, AIA DESIGNER FIRM NAME LICENSE # TELEPHONE E-MAIL ARCHITECTURAL JON W. SAMMER, AIA JON SAMMER 7676 (703) 591-0747 x101 jessie@rcs.com CIVIL N/A ELECTRICAL CONVERSE ENGINEERING GUIDO ALVAREZ 26175 (404) 800-7988 guido@convergeengineering.com FIRE ALARM TBD PLUMBING CONVERSE ENGINEERING JUSTIN HARDY 23103 (404) 800-7988 justin@convergeengineering.com MECHANICAL CONVERSE ENGINEERING JUSTIN HARDY 23103 (404) 800-7988 justin@convergeengineering.com SPRINKLER-STANDPIPE N/A STRUCTURAL N/A RETAINING WALLS &gt;5' HIGH N/A OTHER N/A</p>																																																																																																																																																
BUILDING CODE INFORMATION																																																																																																																																																
<p>2018 NC BUILDING CODE: <input type="checkbox"/> NEW BUILDING <input type="checkbox"/> ADDITION <input checked="" type="checkbox"/> RENOVATION <input type="checkbox"/> SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS <input type="checkbox"/> PHASED CONSTRUCTION - CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS</p>																																																																																																																																																
<p>2018 NC EXISTING BUILDING CODE: EXISTING: <input type="checkbox"/> PRESCRIPTIVE <input type="checkbox"/> REPAIR <input type="checkbox"/> CHAPTER 14 ALTERATION: <input type="checkbox"/> LEVEL I <input type="checkbox"/> LEVEL II <input type="checkbox"/> LEVEL III <input type="checkbox"/> HISTORIC PROPERTY <input type="checkbox"/> CHANGE OF USE</p>																																																																																																																																																
<p>CONSTRUCTED: (DATE) UNKNOWN CURRENT OCCUPANCY(S) (CH. 3): <input type="checkbox"/> BUSINESS (ACCESSORY TENANT IN MERCANTILE) RENOVATED: (DATE) 2025 PROPOSED OCCUPANCY(S) (CH. 3): <input type="checkbox"/> BUSINESS (ACCESSORY TENANT IN MERCANTILE)</p>																																																																																																																																																
<p>RISK CATEGORY (TABLE 1604.5): CURRENT: <input type="checkbox"/> I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V PROPOSED: <input type="checkbox"/> I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> V</p>																																																																																																																																																
BASIC BUILDING DATA																																																																																																																																																
<p>CONSTRUCTION TYPE: <input type="checkbox"/> I-A <input type="checkbox"/> II-A <input type="checkbox"/> III-A <input type="checkbox"/> IV-HT <input type="checkbox"/> V-A (check all that apply) <input type="checkbox"/> II-B <input type="checkbox"/> III-B <input type="checkbox"/> IV-C <input type="checkbox"/> V-B</p>																																																																																																																																																
<p>SPRINKLERS: <input type="checkbox"/> NO <input type="checkbox"/> PARTIAL <input type="checkbox"/> YES <input type="checkbox"/> NFPA 13-07 <input type="checkbox"/> NFPA 13R-07 <input type="checkbox"/> NFPA 130-07 STANDPIPES: <input type="checkbox"/> NO <input type="checkbox"/> YES CLASS: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/> WET <input type="checkbox"/> DRY NFPA 14-07 PRIMARY FIRE DISTRICT: <input type="checkbox"/> NO <input type="checkbox"/> YES FLOOD HAZARD AREA: <input type="checkbox"/> NO <input type="checkbox"/> YES SPECIAL INSPECTIONS REQUIRED: <input type="checkbox"/> NO <input type="checkbox"/> YES</p>																																																																																																																																																
GROSS BUILDING AREA																																																																																																																																																
<table border="1"> <tr> <td>FLOOR</td> <td>EXISTING (SF)</td> <td>NEW (SF)</td> <td>ALT./RE</td> <td>SUB-TOTAL</td> </tr> <tr> <td>GROUND FLOOR</td> <td></td> <td>425 SF (AREA OF FIREHOUSE SUBS SERVICE LINE REMODEL)</td> <td></td> <td></td> </tr> <tr> <td colspan="5"><hr/></td> </tr> <tr> <td colspan="5">TOTAL 425 SF (AREA OF FIREHOUSE SUBS SERVICE LINE REMODEL)</td> </tr> </table>												FLOOR	EXISTING (SF)	NEW (SF)	ALT./RE	SUB-TOTAL	GROUND FLOOR		425 SF (AREA OF FIREHOUSE SUBS SERVICE LINE REMODEL)			<hr/>					TOTAL 425 SF (AREA OF FIREHOUSE SUBS SERVICE LINE REMODEL)																																																																																																																					
FLOOR	EXISTING (SF)	NEW (SF)	ALT./RE	SUB-TOTAL																																																																																																																																												
GROUND FLOOR		425 SF (AREA OF FIREHOUSE SUBS SERVICE LINE REMODEL)																																																																																																																																														
<hr/>																																																																																																																																																
TOTAL 425 SF (AREA OF FIREHOUSE SUBS SERVICE LINE REMODEL)																																																																																																																																																
ALLOWABLE AREA/ OCCUPANCY CLASSIFICATION																																																																																																																																																
<p>PRIMARY OCCUPANCY CLASSIFICATION: FIREHOUSE SUBS TENANT SPACE ONLY</p> <table border="1"> <tr> <td>ASSEMBLY</td> <td><input type="checkbox"/> A-1</td> <td><input type="checkbox"/> A-2</td> <td><input type="checkbox"/> A-3</td> <td><input type="checkbox"/> A-4</td> <td><input type="checkbox"/> A-5</td> </tr> <tr> <td>BUSINESS</td> <td><input checked="" type="checkbox"/> B</td> <td><input type="checkbox"/> C</td> <td><input type="checkbox"/> D</td> <td><input type="checkbox"/> E</td> <td><input type="checkbox"/> F</td> </tr> <tr> <td>EDUCATIONAL</td> <td><input type="checkbox"/> G</td> <td><input type="checkbox"/> H</td> <td><input type="checkbox"/> I</td> <td><input type="checkbox"/> J</td> <td><input type="checkbox"/> K</td> </tr> <tr> <td>FAMILY</td> <td><input type="checkbox"/> L</td> <td><input type="checkbox"/> M</td> <td><input type="checkbox"/> N</td> <td><input type="checkbox"/> O</td> <td><input type="checkbox"/> P</td> </tr> <tr> <td>HAZARDOUS</td> <td><input type="checkbox"/> Q</td> <td><input type="checkbox"/> R</td> <td><input type="checkbox"/> S</td> <td><input type="checkbox"/> T</td> <td><input type="checkbox"/> U</td> </tr> <tr> <td>INSTITUTIONAL</td> <td><input type="checkbox"/> V</td> <td><input type="checkbox"/> W</td> <td><input type="checkbox"/> X</td> <td><input type="checkbox"/> Y</td> <td><input type="checkbox"/> Z</td> </tr> <tr> <td>RELIGIOUS</td> <td><input type="checkbox"/> A-1</td> <td><input type="checkbox"/> A-2</td> <td><input type="checkbox"/> A-3</td> <td><input type="checkbox"/> A-4</td> <td><input type="checkbox"/> A-5</td> </tr> <tr> <td>RESIDENTIAL</td> <td><input type="checkbox"/> S-1</td> <td><input type="checkbox"/> R-2</td> <td><input type="checkbox"/> R-3</td> <td><input type="checkbox"/> R-4</td> <td><input type="checkbox"/> R-5</td> </tr> <tr> <td>STORAGE</td> <td><input type="checkbox"/> M-1</td> <td><input type="checkbox"/> M-2</td> <td><input type="checkbox"/> M-3</td> <td><input type="checkbox"/> M-4</td> <td><input type="checkbox"/> M-5</td> </tr> <tr> <td>UTILITY AND MISCELLANEOUS</td> <td><input type="checkbox"/> U</td> <td><input type="checkbox"/> V</td> <td><input type="checkbox"/> W</td> <td><input type="checkbox"/> X</td> <td><input type="checkbox"/> Y</td> </tr> </table> <p>NOTE: REFER TO CS3 FOR TENANT OCCUPANT LOAD CALCULATIONS.</p>												ASSEMBLY	<input type="checkbox"/> A-1	<input type="checkbox"/> A-2	<input type="checkbox"/> A-3	<input type="checkbox"/> A-4	<input type="checkbox"/> A-5	BUSINESS	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	<input type="checkbox"/> D	<input type="checkbox"/> E	<input type="checkbox"/> F	EDUCATIONAL	<input type="checkbox"/> G	<input type="checkbox"/> H	<input type="checkbox"/> I	<input type="checkbox"/> J	<input type="checkbox"/> K	FAMILY	<input type="checkbox"/> L	<input type="checkbox"/> M	<input type="checkbox"/> N	<input type="checkbox"/> O	<input type="checkbox"/> P	HAZARDOUS	<input type="checkbox"/> Q	<input type="checkbox"/> R	<input type="checkbox"/> S	<input type="checkbox"/> T	<input type="checkbox"/> U	INSTITUTIONAL	<input type="checkbox"/> V	<input type="checkbox"/> W	<input type="checkbox"/> X	<input type="checkbox"/> Y	<input type="checkbox"/> Z	RELIGIOUS	<input type="checkbox"/> A-1	<input type="checkbox"/> A-2	<input type="checkbox"/> A-3	<input type="checkbox"/> A-4	<input type="checkbox"/> A-5	RESIDENTIAL	<input type="checkbox"/> S-1	<input type="checkbox"/> R-2	<input type="checkbox"/> R-3	<input type="checkbox"/> R-4	<input type="checkbox"/> R-5	STORAGE	<input type="checkbox"/> M-1	<input type="checkbox"/> M-2	<input type="checkbox"/> M-3	<input type="checkbox"/> M-4	<input type="checkbox"/> M-5	UTILITY AND MISCELLANEOUS	<input type="checkbox"/> U	<input type="checkbox"/> V	<input type="checkbox"/> W	<input type="checkbox"/> X	<input type="checkbox"/> Y																																																																									
ASSEMBLY	<input type="checkbox"/> A-1	<input type="checkbox"/> A-2	<input type="checkbox"/> A-3	<input type="checkbox"/> A-4	<input type="checkbox"/> A-5																																																																																																																																											
BUSINESS	<input checked="" type="checkbox"/> B	<input type="checkbox"/> C	<input type="checkbox"/> D	<input type="checkbox"/> E	<input type="checkbox"/> F																																																																																																																																											
EDUCATIONAL	<input type="checkbox"/> G	<input type="checkbox"/> H	<input type="checkbox"/> I	<input type="checkbox"/> J	<input type="checkbox"/> K																																																																																																																																											
FAMILY	<input type="checkbox"/> L	<input type="checkbox"/> M	<input type="checkbox"/> N	<input type="checkbox"/> O	<input type="checkbox"/> P																																																																																																																																											
HAZARDOUS	<input type="checkbox"/> Q	<input type="checkbox"/> R	<input type="checkbox"/> S	<input type="checkbox"/> T	<input type="checkbox"/> U																																																																																																																																											
INSTITUTIONAL	<input type="checkbox"/> V	<input type="checkbox"/> W	<input type="checkbox"/> X	<input type="checkbox"/> Y	<input type="checkbox"/> Z																																																																																																																																											
RELIGIOUS	<input type="checkbox"/> A-1	<input type="checkbox"/> A-2	<input type="checkbox"/> A-3	<input type="checkbox"/> A-4	<input type="checkbox"/> A-5																																																																																																																																											
RESIDENTIAL	<input type="checkbox"/> S-1	<input type="checkbox"/> R-2	<input type="checkbox"/> R-3	<input type="checkbox"/> R-4	<input type="checkbox"/> R-5																																																																																																																																											
STORAGE	<input type="checkbox"/> M-1	<input type="checkbox"/> M-2	<input type="checkbox"/> M-3	<input type="checkbox"/> M-4	<input type="checkbox"/> M-5																																																																																																																																											
UTILITY AND MISCELLANEOUS	<input type="checkbox"/> U	<input type="checkbox"/> V	<input type="checkbox"/> W	<input type="checkbox"/> X	<input type="checkbox"/> Y																																																																																																																																											
<p>ACCESSORY OCCUPANCY CLASSIFICATION(S): INCIDENTAL USES (TABLE 509): <input type="checkbox"/> N/A SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS): <input type="checkbox"/> N/A SPECIAL PROVISIONS: (CHAPTER 5 - LIST CODE SECTIONS if applicable) MIXED OCCUPANCY USE: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES SEPARATION: 0 HR. EXCEPTION: <input type="checkbox"/></p>																																																																																																																																																
<p>NON-SEPARATED USE (508.3) THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITS FOR THE OCCUPANCY THAT IS THE DOMINANT OCCUPANCY OF THE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION SO DETERMINED SHALL APPLY TO THE ENTIRE BUILDING.</p>																																																																																																																																																
<p>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 XED OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1. IF APPLICABLE TO THIS PROJECT PLEASE PROVIDE A KEY PLAN WITH ALL OCCUPANCIES IDENTIFIED WITH SQUARE FOOTAGE.</p>																																																																																																																																																
<table border="1"> <tr> <td>ACTUAL AREA OF OCCUPANCY A</td> <td>+</td> <td>ACTUAL AREA OF OCCUPANCY B</td> <td>+</td> <td>ALLOWABLE AREA OF OCCUPANCY A</td> <td>+</td> <td>ALLOWABLE AREA OF OCCUPANCY B</td> <td>≤ 1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>												ACTUAL AREA OF OCCUPANCY A	+	ACTUAL AREA OF OCCUPANCY B	+	ALLOWABLE AREA OF OCCUPANCY A	+	ALLOWABLE AREA OF OCCUPANCY B	≤ 1																																																																																																																													
ACTUAL AREA OF OCCUPANCY A	+	ACTUAL AREA OF OCCUPANCY B	+	ALLOWABLE AREA OF OCCUPANCY A	+	ALLOWABLE AREA OF OCCUPANCY B	≤ 1																																																																																																																																									
<table border="1"> <tr> <td>STORY NO.</td> <td>DESCRIPTION &amp; USE</td> <td>(A) BLDG AREA (ACTUAL)</td> <td>(B) TABLE 503* AREA (ACTUAL)</td> <td>(C) AREA FOR FRONTRAGE INCREASE<sup>1,5</sup></td> <td>(E) ALLOWABLE AREA OF OCCUPANCY UNLIMITED<sup>2,3</sup></td> </tr> <tr> <td>1</td> <td>B</td> <td>425 SF</td> <td>6,000 SF</td> <td>N/A</td> <td>N/A</td> </tr> </table>												STORY NO.	DESCRIPTION & USE	(A) BLDG AREA (ACTUAL)	(B) TABLE 503* AREA (ACTUAL)	(C) AREA FOR FRONTRAGE INCREASE <sup>1,5</sup>	(E) ALLOWABLE AREA OF OCCUPANCY UNLIMITED <sup>2,3</sup>	1	B	425 SF	6,000 SF	N/A	N/A																																																																																																																									
STORY NO.	DESCRIPTION & USE	(A) BLDG AREA (ACTUAL)	(B) TABLE 503* AREA (ACTUAL)	(C) AREA FOR FRONTRAGE INCREASE <sup>1,5</sup>	(E) ALLOWABLE AREA OF OCCUPANCY UNLIMITED <sup>2,3</sup>																																																																																																																																											
1	B	425 SF	6,000 SF	N/A	N/A																																																																																																																																											
<p><b>REFER TO SHELL BLDG DRAWINGS</b></p>																																																																																																																																																
<p>1. FRONTRAGE AREA INCREASES FROM SECTION 508.2 ARE COMPUTED AS: a. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20 FEET MINIMUM WIDTH = <input type="checkbox"/> (ft) b. TOTAL BUILDING PERIMETER = <input type="checkbox"/> (ft) c. RATIO (F/P) = <input type="checkbox"/> (F/P) <b>REFER TO SHELL BLDG DRAWINGS</b> d. W = MINIMUM WIDTH OF PUBLIC WAY = <input type="checkbox"/> (ft) e. PERCENT OF FRONTRAGE INCREASE: IF = <math>[F/P - 0.25] \times W/30 = 75</math> (%) 2. THE SPRINKLER INCREASE PER SECTION 508.3 IS AS FOLLOWS: a. MULTI-STORY BUILDING IS = 200 PERCENT b. SINGLE STORY BUILDING IS = 300 PERCENT 3. UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 507. 4. MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING X E (506.4). MAXIMUM OF 3. 5. THE MAXIMUM AREA OF OPEN PARKING GARAGES MUST COMPLY WITH TABLE 406.3.5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH TABLE 412.1.2.</p>																																																																																																																																																
ALLOWABLE HEIGHT																																																																																																																																																
<table border="1"> <tr> <td>ALLOWABLE (TABLE 503)</td> <td>SHOWN ON PLANS</td> <td>CODE REFERENCE</td> </tr> <tr> <td colspan="3"><b>REFER TO SHELL BLDG DRAWINGS</b></td> </tr> <tr> <td>BUILDING HEIGHT IN FEET</td> <td>40'-0"</td> <td>25'-0"</td> </tr> <tr> <td>BUILDING HEIGHT IN STORES</td> <td>1</td> <td>1</td> </tr> </table>												ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE	<b>REFER TO SHELL BLDG DRAWINGS</b>			BUILDING HEIGHT IN FEET	40'-0"	25'-0"	BUILDING HEIGHT IN STORES	1	1																																																																																																																									
ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE																																																																																																																																														
<b>REFER TO SHELL BLDG DRAWINGS</b>																																																																																																																																																
BUILDING HEIGHT IN FEET	40'-0"	25'-0"																																																																																																																																														
BUILDING HEIGHT IN STORES	1	1																																																																																																																																														
<p>1. PROVIDE CODE REFERENCE IF THE 'SHOWN ON PLANS' QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4.</p>																																																																																																																																																
FIRE PROTECTION REQUIREMENTS																																																																																																																																																
<table border="1"> <thead> <tr> <th>BUILDING ELEMENT</th> <th>FIRE SEPARATION DISTANCE (FEET)</th> <th>RATING</th> <th>DETAIL # PROVIDED (W/ PERMIT REDUCTION)</th> <th>DESIGN # SHEET # FOR RATED ASSEMBLY</th> <th>DESIGN # FOR PENETRATION</th> <th>DESIGN # FOR JOINTS</th> </tr> </thead> <tbody> <tr> <td>STRUCTURAL FRAME, INCLUDING BEAMS, GIRDERS, AND TRUSSES</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>BEARING WALLS See section 601-602 if rated</td> <td>&gt;30</td> <td>0</td> <td>0</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>EXTERIOR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>NORTH</td> <td>&gt;30</td> <td>0</td> <td>0</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>EAST</td> <td>&gt;30</td> <td>0</td> <td>0</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>WEST</td> <td>&gt;30</td> <td>0</td> <td>0</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>SOUTH</td> <td>&gt;30</td> <td>0</td> <td>0</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>INTERIOR WALLS AND PARTITIONS</td> <td>&gt;30</td> <td>0</td> <td>0</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>FLOOR CONSTRUCTION including supporting beams and joists</td> <td>0</td> <td>0</td> <td>0</td> <td colspan="3"><b>REFER TO SHELL BLDG DRAWINGS</b></td> </tr> <tr> <td>ROOF CONSTRUCTION including supporting beams and joists</td> <td>0</td> <td>0</td> <td>0</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>STAFF ENCLOSURES - EXTERIOR</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>STAFF ENCLOSURES - OTHER THAN EXIT</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>CORRIDOR SEPARATION</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>OCCUPANCY SEPARATION</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>PART/FIRE WALL</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>SMOKE BARRIER</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>TENANT SEPARATION</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>INCIDENTAL USE SEPARATION</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> <td>N/A</td> </tr> </tbody> </table>												BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING	DETAIL # PROVIDED (W/ PERMIT REDUCTION)	DESIGN # SHEET # FOR RATED ASSEMBLY	DESIGN # FOR PENETRATION	DESIGN # FOR JOINTS	STRUCTURAL FRAME, INCLUDING BEAMS, GIRDERS, AND TRUSSES							BEARING WALLS See section 601-602 if rated	>30	0	0	N/A	N/A	N/A	EXTERIOR							NORTH	>30	0	0	N/A	N/A	N/A	EAST	>30	0	0	N/A	N/A	N/A	WEST	>30	0	0	N/A	N/A	N/A	SOUTH	>30	0	0	N/A	N/A	N/A	INTERIOR WALLS AND PARTITIONS	>30	0	0	N/A	N/A	N/A	FLOOR CONSTRUCTION including supporting beams and joists	0	0	0	<b>REFER TO SHELL BLDG DRAWINGS</b>			ROOF CONSTRUCTION including supporting beams and joists	0	0	0	N/A	N/A	N/A	STAFF ENCLOSURES - EXTERIOR	N/A	N/A	N/A	N/A	N/A	N/A	STAFF ENCLOSURES - OTHER THAN EXIT	N/A	N/A	N/A	N/A	N/A	N/A	CORRIDOR SEPARATION	N/A	N/A	N/A	N/A	N/A	N/A	OCCUPANCY SEPARATION	N/A	N/A	N/A	N/A	N/A	N/A	PART/FIRE WALL	N/A	N/A	N/A	N/A	N/A	N/A	SMOKE BARRIER	N/A	N/A	N/A	N/A	N/A	N/A	TENANT SEPARATION	N/A	N/A	N/A	N/A	N/A	N/A	INCIDENTAL USE SEPARATION	N/A	N/A	N/A	N/A	N/A	N/A
BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING	DETAIL # PROVIDED (W/ PERMIT REDUCTION)	DESIGN # SHEET # FOR RATED ASSEMBLY	DESIGN # FOR PENETRATION	DESIGN # FOR JOINTS																																																																																																																																										
STRUCTURAL FRAME, INCLUDING BEAMS, GIRDERS, AND TRUSSES																																																																																																																																																
BEARING WALLS See section 601-602 if rated	>30	0	0	N/A	N/A	N/A																																																																																																																																										
EXTERIOR																																																																																																																																																
NORTH	>30	0	0	N/A	N/A	N/A																																																																																																																																										
EAST	>30	0	0	N/A	N/A	N/A																																																																																																																																										
WEST	>30	0	0	N/A	N/A	N/A																																																																																																																																										
SOUTH	>30	0	0	N/A	N/A	N/A																																																																																																																																										
INTERIOR WALLS AND PARTITIONS	>30	0	0	N/A	N/A	N/A																																																																																																																																										
FLOOR CONSTRUCTION including supporting beams and joists	0	0	0	<b>REFER TO SHELL BLDG DRAWINGS</b>																																																																																																																																												
ROOF CONSTRUCTION including supporting beams and joists	0	0	0	N/A	N/A	N/A																																																																																																																																										
STAFF ENCLOSURES - EXTERIOR	N/A	N/A	N/A	N/A	N/A	N/A																																																																																																																																										
STAFF ENCLOSURES - OTHER THAN EXIT	N/A	N/A	N/A	N/A	N/A	N/A																																																																																																																																										
CORRIDOR SEPARATION	N/A	N/A	N/A	N/A	N/A	N/A																																																																																																																																										
OCCUPANCY SEPARATION	N/A	N/A	N/A	N/A	N/A	N/A																																																																																																																																										
PART/FIRE WALL	N/A	N/A	N/A	N/A	N/A	N/A																																																																																																																																										
SMOKE BARRIER	N/A	N/A	N/A	N/A	N/A	N/A																																																																																																																																										
TENANT SEPARATION	N/A	N/A	N/A	N/A	N/A	N/A																																																																																																																																										
INCIDENTAL USE SEPARATION	N/A	N/A	N/A	N/A	N/A	N/A																																																																																																																																										
<p>* INDICATE SECTIONS NUMBER PERMITTING REDUCTION</p>																																																																																																																																																
ENERGY SUMMARY																																																																																																																																																
<p>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.</p>																																																																																																																																																
<p>EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: <input type="checkbox"/> NO <input checked="" type="checkbox"/> YES (THE REMAINDER OF THIS SECTION IS NOT APPLICABLE)</p>																																																																																																																																																
<p>CLIMATE ZONE: <input type="checkbox"/> 3A <input type="checkbox"/> 3B</p>																																																																																																																																																
<p>METHOD OF COMPLIANCE: ENERGY CODE <input type="checkbox"/> PERFORMANCE <input type="checkbox"/> PRESCRIPTIVE ASHRAE 90.1 <input type="checkbox"/> PERFORMANCE <input type="checkbox"/> PRESCRIPTIVE (IF OTHER SPECIFIC SOURCE HERE)</p>																																																																																																																																																
<p>Thermal Envelope (Prescriptive Method Only) NO WORK/CHANGE TO EXISTING BUILDING THERMAL ENVELOPE - REFER TO SHELL BUILDING DRAWINGS</p>																																																																																																																																																
<p>Roof/Ceiling Assembly (Each Assembly) (By Landlord) Description of Assembly: U-Value of Total Assembly: R-Value of Insulation: Openings (Windows or Doors with Glazing) U-Value of Total Assembly: Solar Heat Gain Coefficient: Projection Factor: Door R-Value: Walls Below Grade (Each Assembly) Description of Assembly: U-Value of Total Assembly: R-Value of Insulation: Floors Over Unconditioned Space (Each Assembly) U-Value of Total Assembly: R-Value of Insulation: Floors Slab on Grade (By Landlord) Description of Assembly: U-Value of Total Assembly: R-Value of Insulation: Horizontal/Vertical Requirement: Slab Heated: NO</p>																																																																																																																																																
PLAN DATES																																																																																																																																																
<p>REV. SUBMISSION <input type="checkbox"/> 10/01/2025 PROGRESS SUBMISSION <input type="checkbox"/> 10/10/2025 BID &amp; PERMIT SUBMISSION <input type="checkbox"/> 10/10/2025</p>																																																																																																																																																
<p><b>FIREHOUSE SUBS</b> </p>																																																																																																																																																
<p>DUNN, NORTH CAROLINA</p>																																																																																																																																																
<p>SEAL:</p>																																																																																																																																																
<p>I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME, AND THAT I AM DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7676, EXPIRATION DATE 06/30/2026.</p>																																																																																																																																																
<p>SCALE: 1/4" = 1'-0"  U.N.O. PROJECT NO. FSDN_2509</p>																																																																																																																																																
<p>SHEET TITLE: APPENDIX B</p>																																																																																																																																																
<p>SHEET NUMBER: CS1.1</p>																																																																																																																																																



ENLARGED BUILDING EXISTING PLAN SCALE: N.T.S.

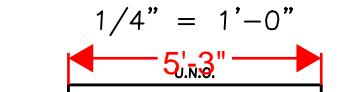
MEANS OF EGRESS CALCULATIONS		
MIN. NUMBER OF REQUIRED EXITS		
REQUIRED	PROVIDED	REMARKS
1	1	LESS THAN 50 OCCUPANTS (ADDITIONAL EXIT DOOR PROVIDED IN KITCHEN SERVICE AREA)
MIN. EXIT DOOR CLEAR WIDTH		
REQUIRED	PROVIDED	REMARKS
MAIN EXIT	32" MIN.*	32" PER SECTION 1028.2 LESS THAN 300 OCCUPANTS *(1) 36" DOOR
MAXIMUM TRAVEL DISTANCE BASED ON BUILDING CODE SECTION 1017 AND TABLE 1017.2		
MAX. ALLOWABLE (SINGLE EXIT)	PROVIDED	
100'	56'-10"	
EXIT AISLE CLEAR WIDTH		
		EXIT AISLEWAY
		EXIT AISLEWAY WIDTH 36" (LESS THAN 50 OCCUPANTS) PER BLDG. CODE SECTION 1028.9.1.1 #4 EXCEPTION #1.
		KITCHEN/SERVICE AREA AISLEWAY WIDTH 36" (LESS THAN 50 OCCUPANTS) PER BLDG. CODE SECTION 1028.9.1.1 #4 EXCEPTION #1.
ADA TACTILE SIGNAGE PLAQUE		
		INSTALL ADA TACTILE SIGNAGE PLAQUE ADJACENT TO EACH DOOR PER ICC A117.1. REFER TO SHEET CS2 FOR SIGNAGE REQUIREMENT.
LIFE SAFETY ACCESSORY KEY PLAN		
		FIRE EXTINGUISHER MIN. RATING 3A:40BC PER NFPA 10.
		FIRE DEPARTMENT KNOX BOX - VERIFY LOCATION WITH LOCAL FIRE MARSHAL PRIOR TO INSTALLATION. G.C. TO SUPPLY AND INSTALL.
		NOTE: FIRE EXTINGUISHERS ARE SHOWN FOR REFERENCE ONLY. GENERAL CONTRACTOR TO VERIFY WITH LOCAL FIRE MARSHAL QUANTITY, LOCATIONS, AND TYPES OF FIRE EXTINGUISHERS PRIOR TO ORDERING AND INSTALLATION.
		NOTE: REFER TO ELECTRICAL DRAWINGS FOR EMERGENCY AND EXIT LIGHT & SIGNAGE LOCATIONS AND SPECIFICATIONS.
DESIGNED OCCUPANCY LOAD		
PER : BUILDING CODE TABLE 1004.1.1 & SECTION 1004.1		
ORDER AREA:		
	ORDER LINE (STANDING): 11 SF / 5 SF = 2.2	3
WAITING CUSTOMERS:		
		3
TOTAL CUSTOMERS: WAITING = 3		
		3
EMPLOYEE AREAS:		
	KITCHEN/SERVICE AREAS: 596 S.F / 200 S.F. = 2.98	3
	STORAGE AREAS: 210 S.F / 300 S.F. = .39	1
EMPLOYEES:		
		4
TOTAL OCCUPANT LOAD: CUSTOMERS = 3 EMPLOYEES = 4		
		7
I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED FOR ME, AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7678, EXPIRATION DATE 06/30/2026.		
SCALE: $1/4" = 1'-0"$  PROJECT NO. FSDN_2509		
SHEET TITLE: LIFE SAFETY & OCCUPANT LOAD PLAN		
SHEET NUMBER: CS3		
OF		

**FIREHOUSE • SUBS**™

DUNN,  
NORTH CAROLINA

SEAL:

I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED FOR ME, AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7678, EXPIRATION DATE 06/30/2026.

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


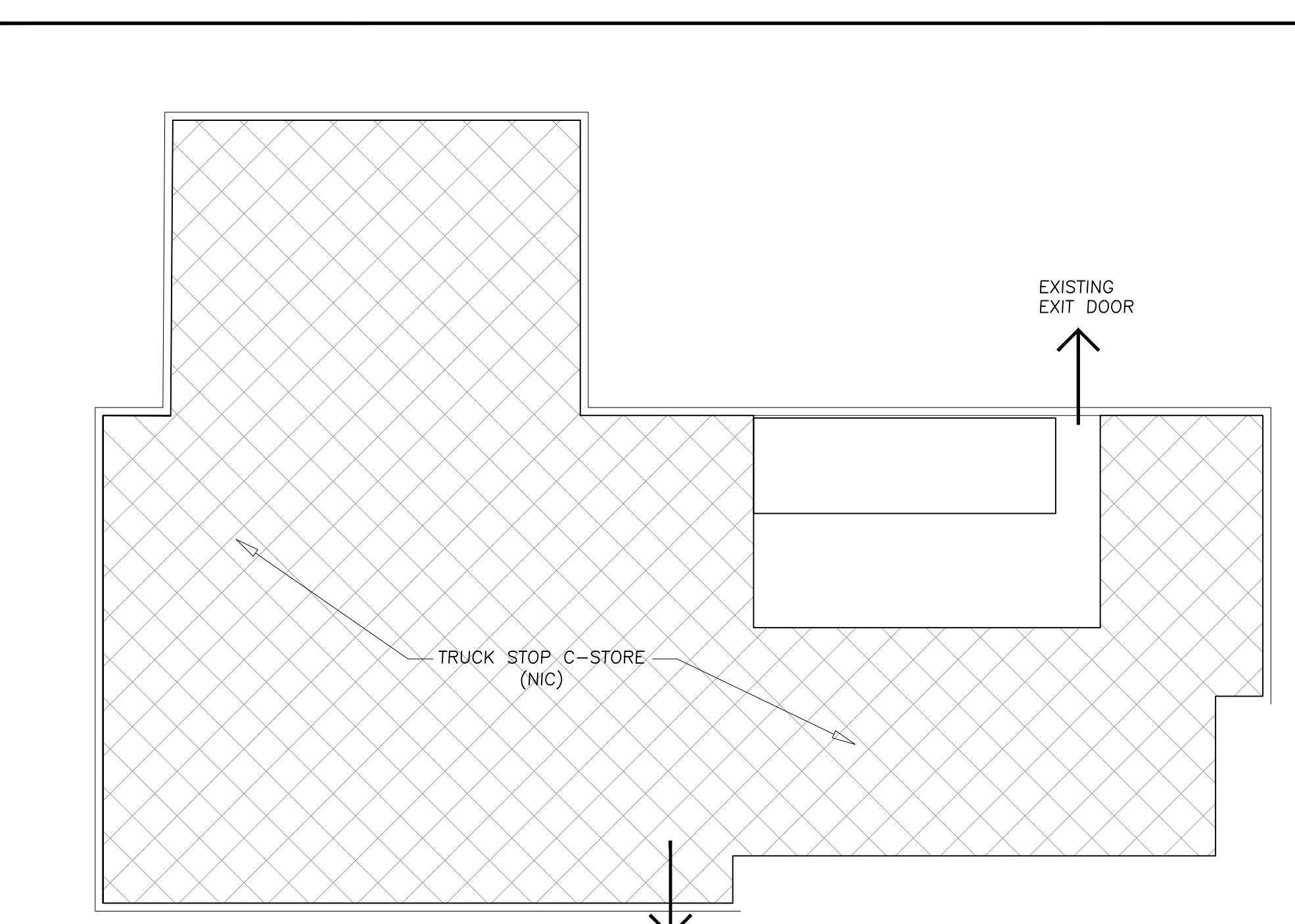
PROJECT NO.

FSDN\_2509

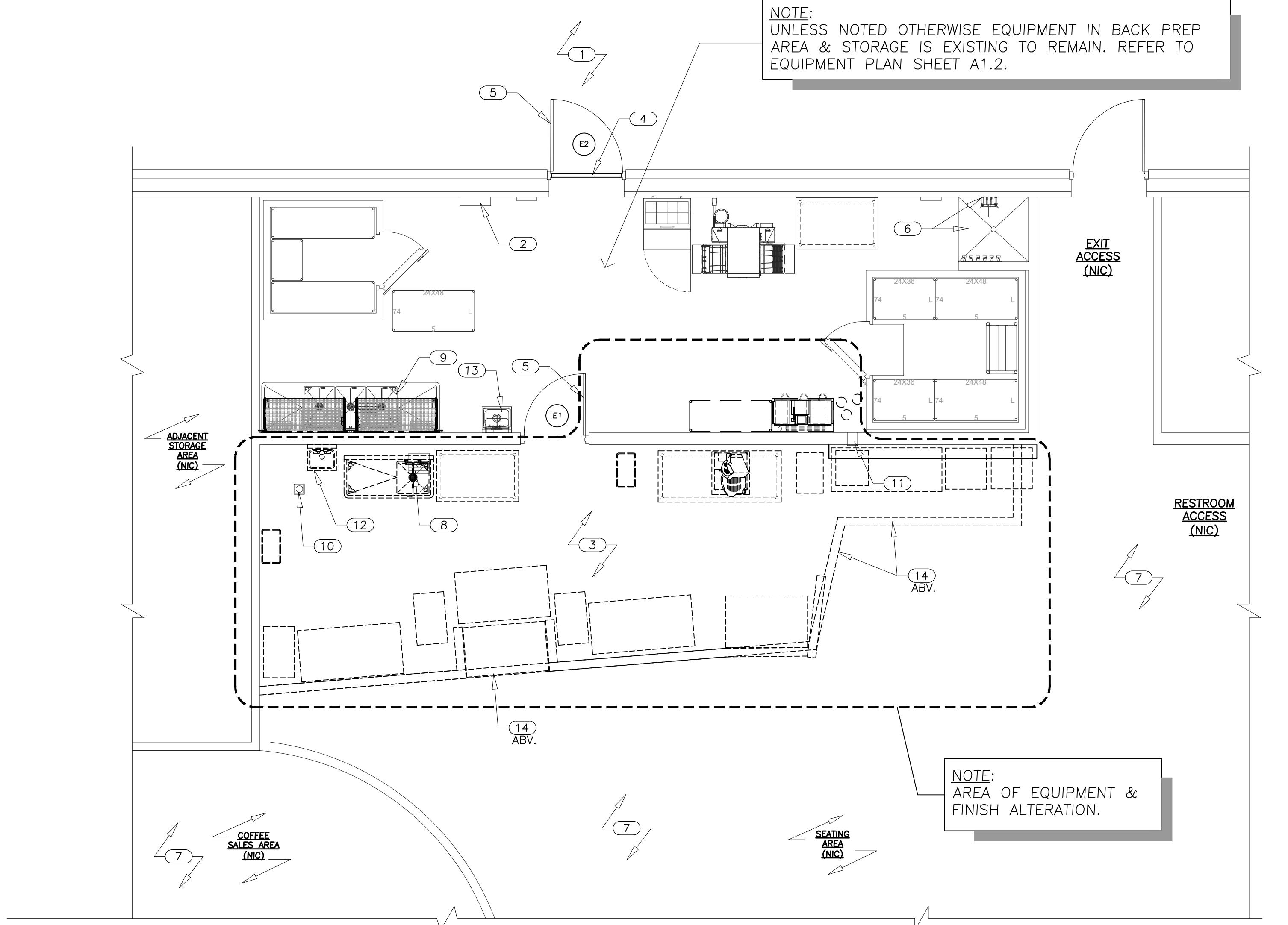
SHEET TITLE: LIFE SAFETY & OCCUPANT LOAD PLAN

SHEET NUMBER:

CS3



N  
F



GENERAL NOTES	
UNLESS NOTED OTHERWISE REMOVE ALL:	
A.	FLOORING TO EXPOSED CONCRETE SLAB (FLASH PATCH & GRIND CONCRETE SLAB FOR SMOOTH LEVEL SURFACE FOR NEW FLOOR FINISHES).
B.	ABANDONED WASTE LINES BELOW CONCRETE SLAB SHALL BE CAPPED OFF WITHIN 24" OF VENTED SEWER LINE. REFER TO PLUMBING DRAWINGS.
C.	INTERIOR NON - LOAD BEARING PARTITIONS AS SHOWN ON THIS PLAN.
D.	DEMO EXISTING CONC. SLAB ON GRADE AS REQUIRED FOR ALL NEW PLUMBING. REFER TO DETAIL 1 SHEET A1.0.
E.	REFER TO ELECTRICAL DRAWINGS FOR EXTENT OF ELECTRICAL SERVICE RE-USE.
F.	ALL DECORATIVE TRIM, PANELING, WALL PAPER, ETC. & PATCH/REPAIR SUBSTRATE AS REQUIRED FOR INSTALLATION OF NEW INTERIOR FINISHES.
G.	REMOVE SERVICE LINE EQUIPMENT AS SHOWN ON THIS PLAN - G.C. TO COORDINATE DISPOSAL W/ OWNER.

EXISTING CONDITIONS LEGEND	
—	EXISTING INTERIOR PARTITION TO REMAIN
—	EXISTING DOOR TO REMAIN
—	EXISTING INTERIOR PARTITION TO BE REMOVED

#### KEY NOTES (#) NOTE: NOT ALL KEY NOTES MAY BE USED.

1	EXISTING EXTERIOR ASPHALT AREA TO REMAIN.
2	EXISTING ELECTRIC PANEL - REFER TO ELECTRICAL DRAWINGS.
3	G.C. TO DEMO EXISTING FLOOR FINISH TO SLAB. EXISTING CONCRETE SLAB TO REMAIN - REFER TO DEMOLITION NOTE A ABOVE & UNDERSLAB PLUMBING PIPES ADD/ALTERNATE NOTE AT LEFT.
4	EXISTING HC ALUMINUM THRESHOLD TO REMAIN.
5	EXISTING DOOR TO REMAIN.
6	EXISTING MOP SINK & FAUCET TO REMAIN.
7	EXISTING OPEN SALES AREA/ SEATING AREA TO REMAIN - NO MODIFICATIONS UNDER THIS PERMIT.
8	EXISTING FLOOR SINK TO BE REPLACED WITH NEW CAST FLOOR SINK. REMOVE & REPLACE 10' OF UNDERGROUND WASTER PIPING WITH NEW CAST IRON PIPE - REFER TO PLUMBING DRAWINGS.
9	EXISTING FLOOR SINK TO REMAIN.
10	EXISTING FLOOR DRAIN TO REMAIN.
11	EXISTING THRU-WALL CHASE TO REMAIN.
12	EXISTING HANDSINK TO BE REPLACED.
13	EXISTING HANDSINK TO REMAIN.
14	EXISTING BULKEHAD TO BE REMOVED - REFER TO RCP.

**FIREHOUSE • SUBS**™

DUNN,  
NORTH CAROLINA

SEAL:

I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7610, EXPIRATION DATE 06/30/2026.

SCALE:

1/4" = 1'-0"

UNO.

PROJECT NO.

FSDN\_2509

SHEET TITLE:  
EXISTING CONDITIONS  
PLAN

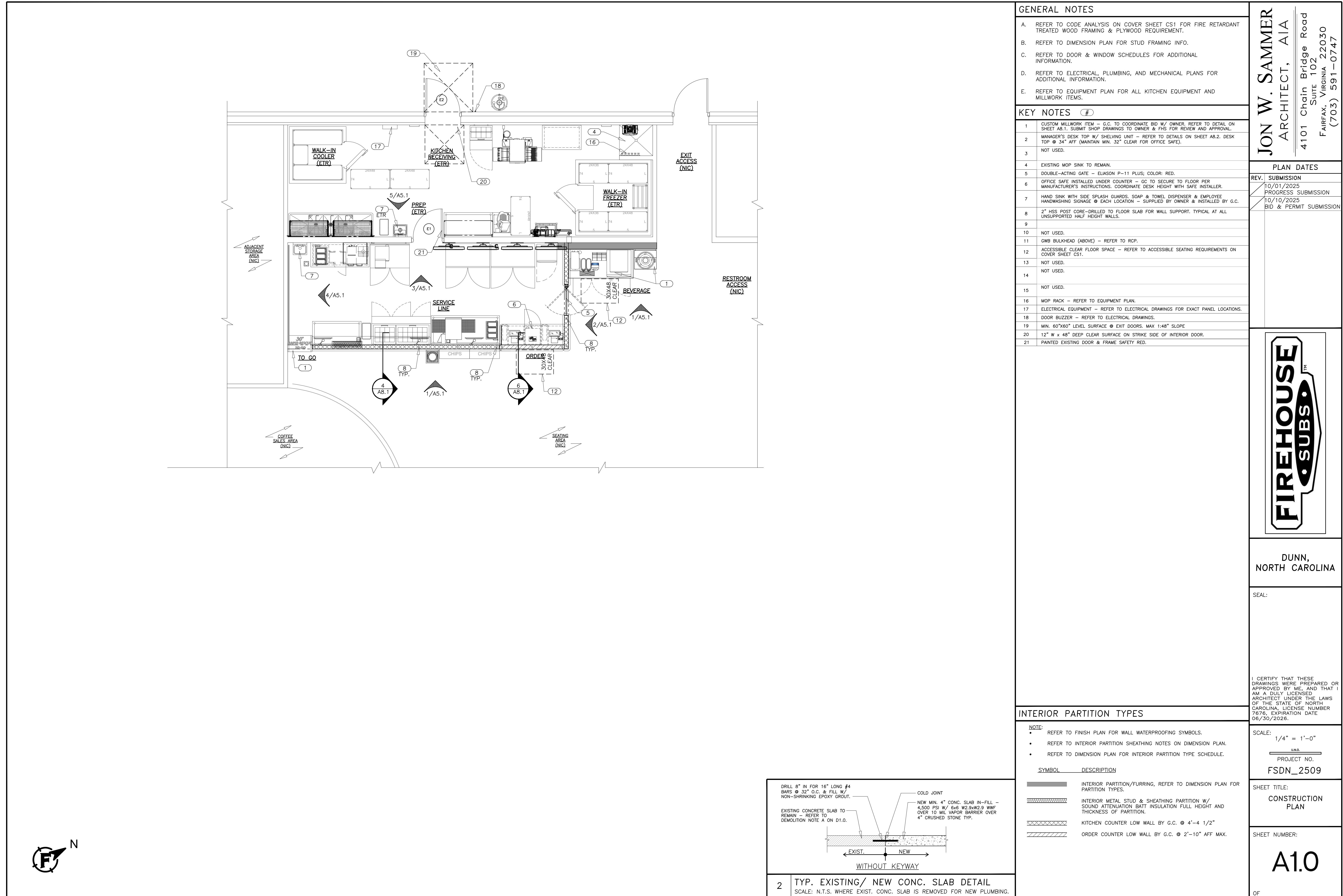
SHEET NUMBER:

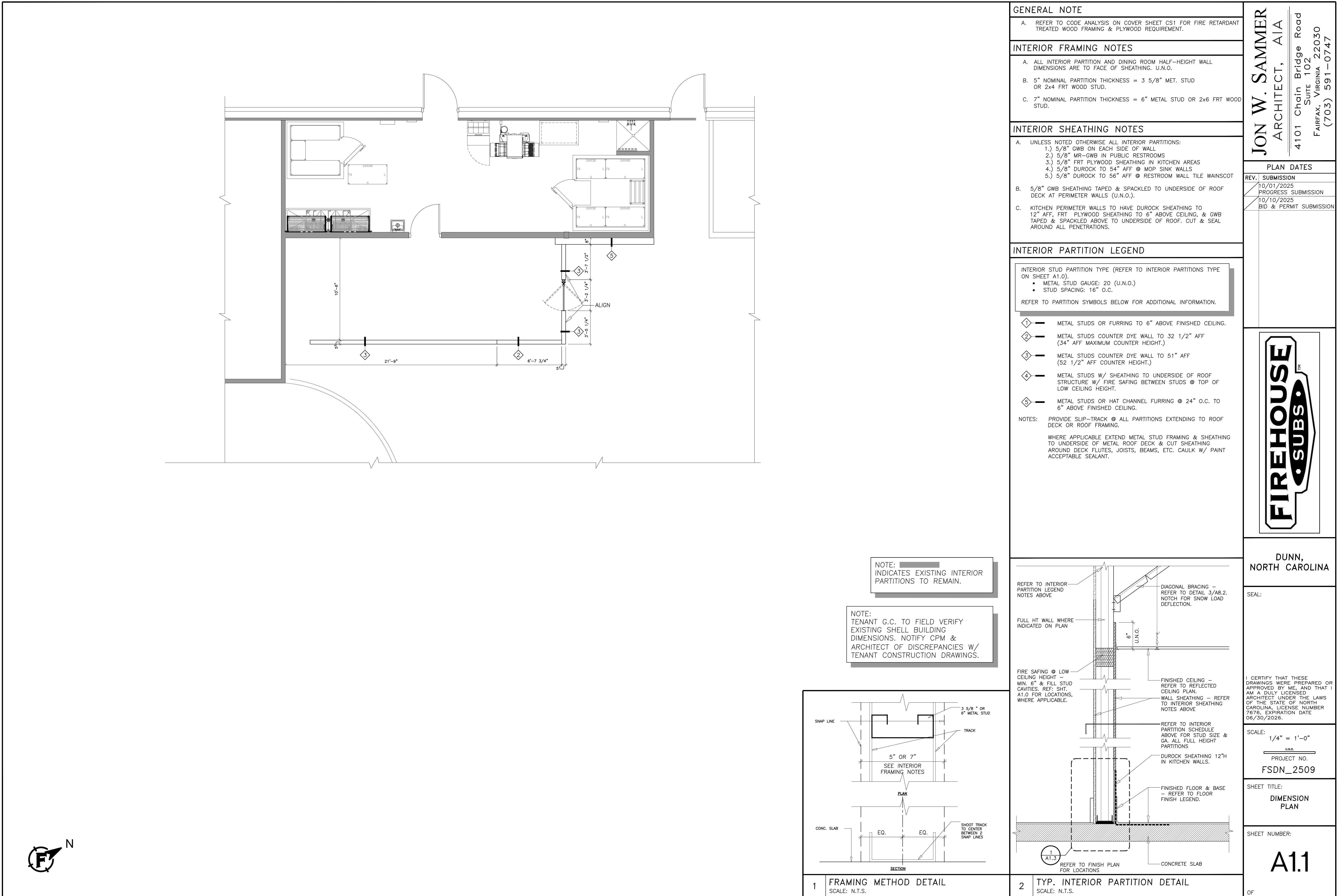
D1.0

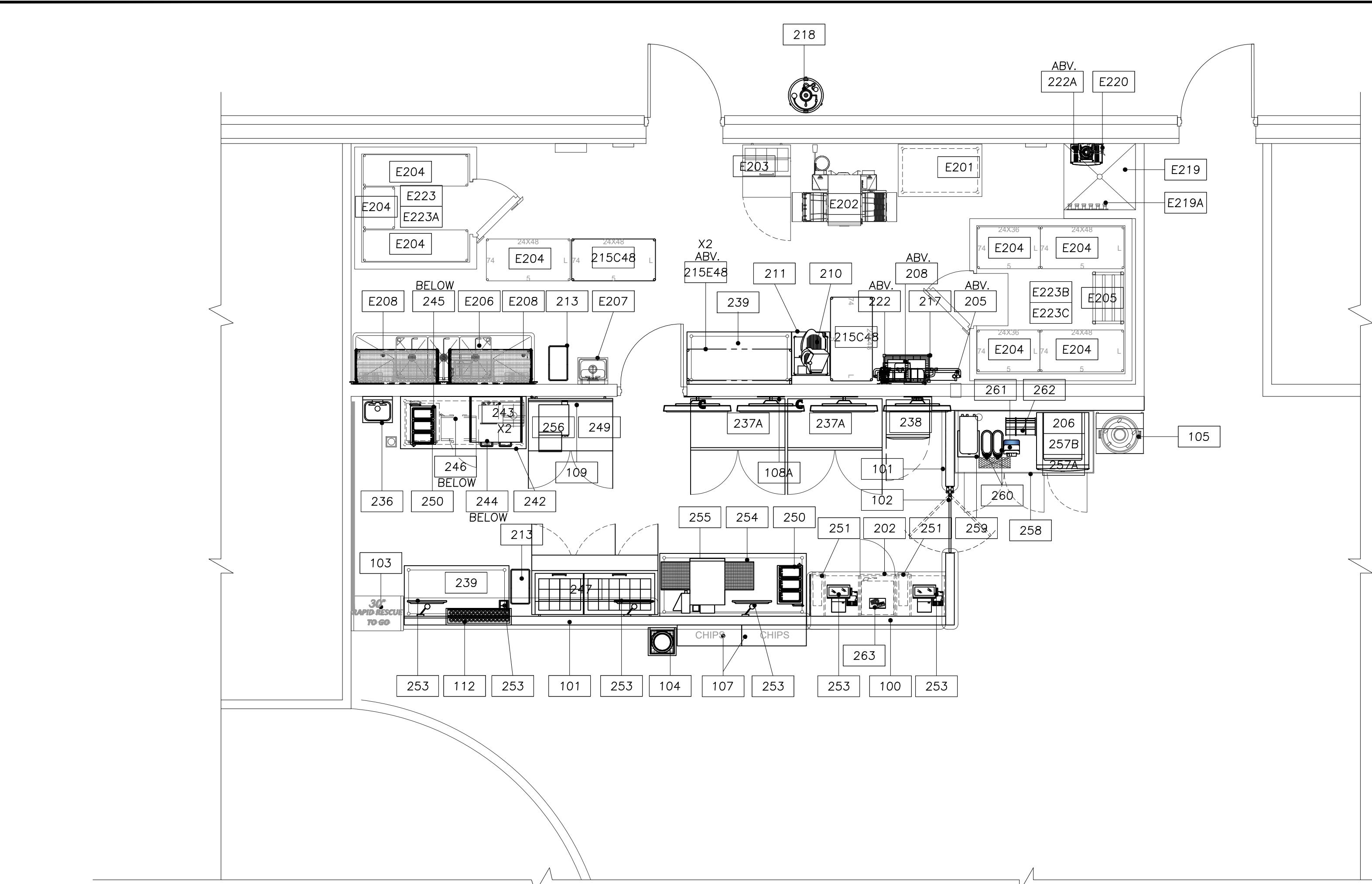
OF

**JON W. SAMMER**  
ARCHITECT, AIA  
4101 Chain Bridge Road  
SUITE 102  
FAIRFAX, VIRGINIA 22030  
(703) 591-0747

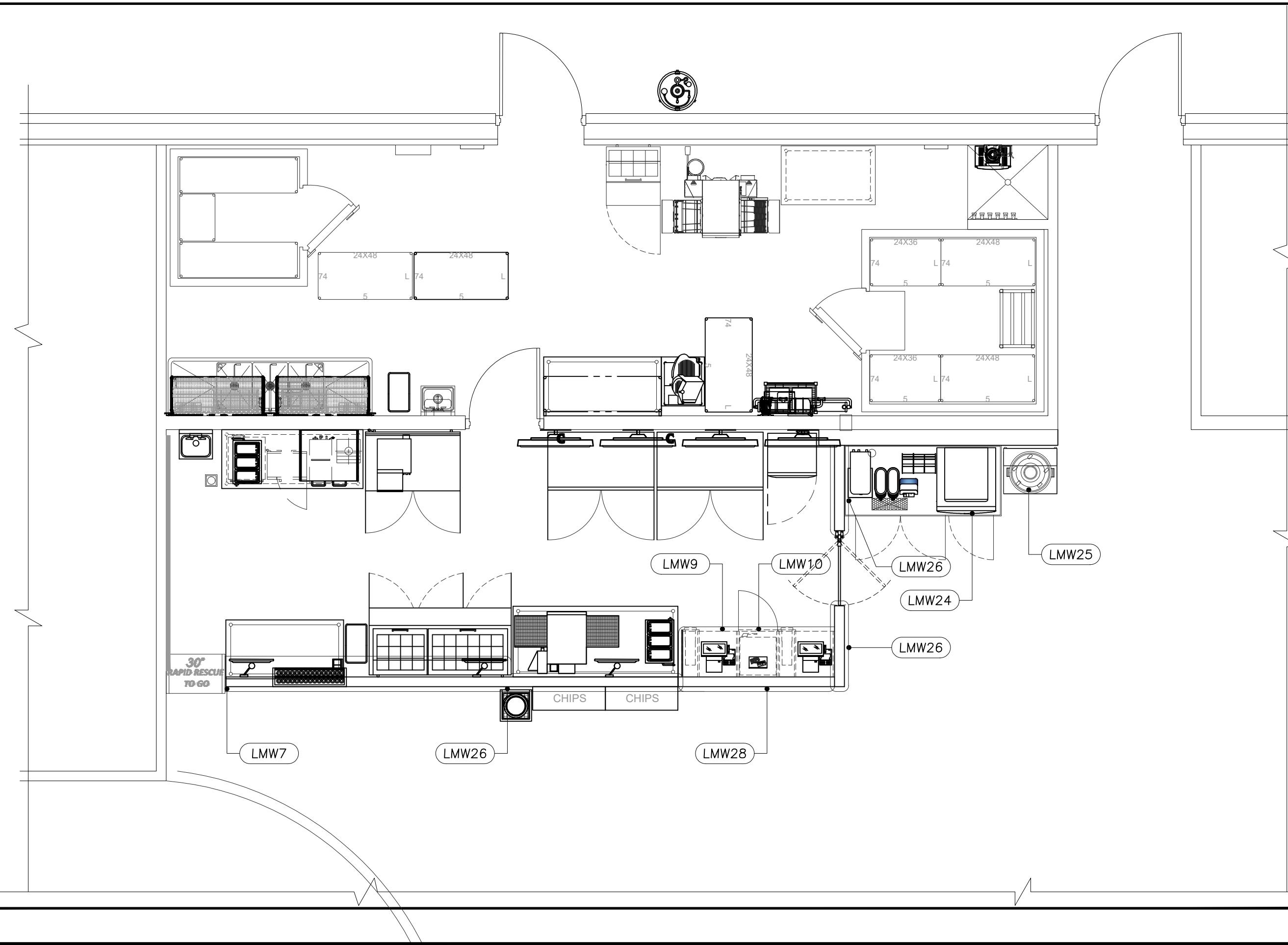
N  
F







## EQUIPMENT PLAN



## MILLWORK PLAN

FF&E SCHEDULE – LEGACY 2ND GEN.

#	DESCRIPTION	QTY,	MANUFACTURER	MODEL NUMBER	REMARKS	BY OWNER	BY PURVEYOR	FABRICATED	KEC	BY G.C.
100	POS COUNTER	1	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.		X			
101	LAMINATED COUNTER TOP	1 LOT	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.; G.C. TO PROVIDE FIELD DIMNSIONS		X			
102	36" DOUBLE ACTION SWING GATE	1	ELLASON	CAFE SWING GATE; COLOR: RED	INSTALL BY G.C.		X			
103	RAPID RESCUE TO GO SHELF	1	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.		X			
104	PICKLE BUCKET DISPLAY	1	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.		X			
105	TRASH RECEPTACLE & BIN FRAME	1	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.		X			
107	CHIP STAND	2	FRITO LAY	TBD	INSTALL BY G.C.	X				
108A	DIGITAL MENU BOARD	4	BY OWNER	CUSTOM				X		
109	LTO BOARD	0	B&J PEERLESS	CUSTOM				X		
111	SELF-SERVE ORDER KIOSK	0	TOAST	#		X				
112	HOT SUACE RACK	1	B&J PEERLESS	CUSTOM				X		
202	SAFE	1	BY OWNER	TBD	115V FOR LIGHTS AND DOOR HEATER, 15 AMP BREAKER	X				
205	STEAMER WATER FILTRATION SYSTEM (VZN)	1	ANTUNES	VZN-541HC				X		
206	ICE MACHINE	1	HOSHIZAKI	440-KM520MAJ				X		
208	ICE MACHINE FILTER	1	ECOLAB	9320-3887	SCS50 PLUMBER TO MOUNT FILTER TO WALL	X				
210	SLICER	1	BIZERBA	GSP HGi		X				
211	SLICER TABLE	1	BIZERBA	SLICER-TABLE-1		X				
213	SLIM JIM TRASH RECEPTACLE	6	CARLISLE	CARL3402303				X		
215C48	24x48 SHELVING UNIT	2	SKIBEE	SKIBSKIWGR2448CWP	5 TIERS, 74" POSTS			X		
215E48	18X48 SHELVING UNIT W/ MTG BRACKETS	2	SKIBEE		5 TIERS, 74" POSTS			X		
217	FREESTYLE SYRUP RACK & PUMP	1	COCA-COLA	45897		X				
218	C02 TANK	1	HELGET	CARBO MIXER 550	EXTERIOR PLACEMENT	X				
222	BOOSTER PUMP	1	LITTLE GIANT	25LGIL1100N41						X
222A	TANKLESS INSTANT HOT WATER HEATER	1	TBD	TBD	REFER TO PLUMBING DRAWINGS					X
236	HAND SINK	1	SKIBEE	SKIHS17SS	T&S FAUCET INCLUDED					X
237A	REFRIGERATOR, TWO DOOR	2	TRUE	T-49-HC	W/ STACKING KIT					X
238	BOTTLES TO GO COOLER	1	COCA-COLA	TBD		X				
239	WORK TABLE, 30"x60"	2	SKIBEE	SKIBSKIWT3060ESCC						X
242	STEAMER TABLE	1	ANTUNES	7000-2222						X
243	COUNTERTOP DRAWER STEAMER	2	ANTUNES	IS-1000						X
244	STEAM WATER SOFTENER SYSTEM	1	ANTUNES	WSS-0618-ENC						X
245	COUNTERTOP CONVECTION OVEN	1	CADCO	OV-003		X				
246	MICROWAVE	1	AMANA	RCS10DSE						X
247	72" REFRIGERATED PREP TABLE (ATC)	1	TRUE	TSSU7230MB-HC						X
249	FREEZER, WORK TOP - 48"	1	TRUE	TWT-48F						X
250	COUNTERTOP WARMER	2	NEMCO	NEMC6055A						X
251	CUP DISPENSER	6	SAN JAMAR	C2410C						X
253	POS & KDS ORDER SYSTEM	1 LOT	BY OWNER	-		X				
254	WORK TABLE 36"x84"	1	EAGLE	T3684B				X		
255	COUNTERTOP CONVECTION TOASTER	1	LINCOLN	2051				X		
256	COUNTERTOP VENTLESS FRYER	1	PERFECT FRY	PFA-730	50 AMP BREAKER			X		
257A	COUNTERTOP SODA MACHINE	1	LANCER	SENSATION-30		X				
257B	ICE MACHINE STACKING KIT	1	COCA-COLA	DF150		X				
258	METAL CONDIMENT COUNTER	1	MILLWORK CONTRACTOR	CUSTOM	STAINLESS COUNTERTOP; INSTALLED BY G.C.			X		
259	TEA BREWER	1	BUNN	52000.03000						X
260	TEA DISPENSER	2	BUNN	SELF SERVE 9100						X
261	CONDIMENT CONTAINER	1	SAN JAMAR	B4093L						X
262	CONDIMENT TRAY	1	DISPENSER RITE	VSCH-6BT						X
263	FOUNDATION DONATION CUP	1	-	-						X

Fryer will require a class K fire extinguisher within 30 feet

## MILLWORK SCHEDULE – LEGACY

#	DESCRIPTION	SOURCE	CONTACT
LMW7	RAPID RESCUE TO GO (INTEGRATED)	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400
LMW9	CASHWRAP/POS STATION	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400
LMW10	POS COUNTER CABINETS	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400
LMW17	LEGACY PRINTER SHELF	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400
LMW18	CASH DRAWER	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400
LMW24	CONDIMENT COUNTER	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400
LMW25	TRASH BIN FRAME	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400
LMW26	LOW WALL COUNTER TOP	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400
LMW28	POS COUNTER	BEYOND THE MENU	TANNER FRANKLIN (904) 594-400

## EXISTING EQUIPMENT SCHEDULE

94-4001	#	DESCRIPTION	QTY,	MANUFACTURER	MODEL NUMBER	REMARKS	BY OWNER	BY PURVEYOR	FABRICATED	KEC	BY G.C.
94-4001	E201	S/S WORK TABLE - EXISTING TO REMAIN	1	ETR	ETR	ETR					
94-4001	E202	CONVEYOR TOASTER - EXISTING TO REMAIN	1	ETR	ETR	ETR					
94-4001	E203	REFRIGERATED WORK TABLE - EXISTING TO REMAIN	1	ETR	ETR	ETR					
94-4001	E204	METRO SHELVING - EXISTING TO REMAIN	8	ETR	ETR	ETR					
94-4001	E205	DUNNAGE RACK - EXISTING TO REMAIN	1	ETR	ETR	ETR					
94-4001	E206	3-COMP SINK - EXISTING TO REMAIN	1	ETR	ETR	ETR					
94-4001	E207	HANDSINK W/ SIDE SPLASHGUARDS - EXISTING TO REMAIN	1	ETR	ETR	ETR					
94-4001	E208	METRO WALL SHELF	2	ETR	ETR	ETR					
	E219	MOP SINK - EXISTING TO REMAIN	1	ETR	ETR	ETR					
	E219A	MOP RACK - EXISTING TO REMAIN	1	ETR	ETR	ETR					
	E220	MOP SINK FAUCET - EXISTING TO REMAIN	1	ETR	ETR	ETR					
	E223	WALK-IN COOLER	1	ETR	ETR	ETR					
	E223A	COOLER REFRIGERATION	1	ETR	ETR	ETR					
	E223B	WALK-IN FREEZER	1	ETR	ETR						
	E223C	FREEZER REFRIGERATION	1	ETR	ETR	ETR					

CERTIFY THAT THESE  
DRAWINGS WERE PREPARED OR  
APPROVED BY ME, AND THAT I  
AM A DULY LICENSED  
ARCHITECT UNDER THE LAWS  
OF THE STATE OF NORTH  
CAROLINA, LICENSE NUMBER  
7676, EXPIRATION DATE  
06/30/2026.

SCALE:  $1/4'' = 1'-0''$

---

U.N.O.

---

PROJECT NO.

SHEET TITLE:  
**EQUIPMENT &  
MILLWORK**  
**PLANS AND SCHEDULES**

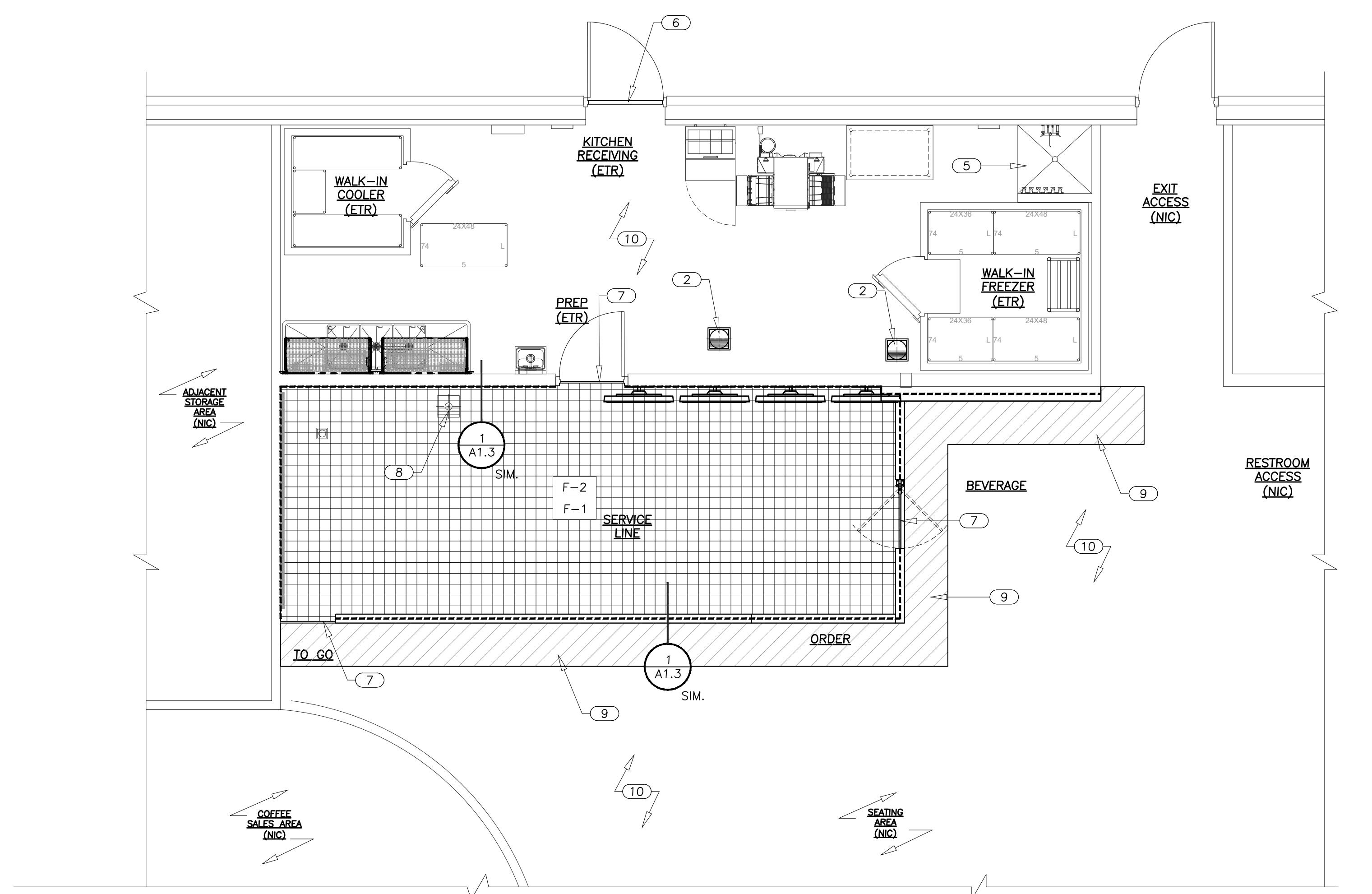
1. SHEET NUMBER

SHEET NUMBER:

Λ12

A.1.2

OF



NOTE: G.C. TO USE INDUSTRIAL GROUT @ ALL TILE FLOORING AREAS.

NOTE: NO PONDING WATER ALLOWED IN KITCHEN FLOORING AREAS.

NOTE: INSTALL DUROCK SHEATHING TO 60" A.F.F. AT MOP SINK WALLS.

#### GENERAL NOTES

- A. REFER TO ROOM FINISH LEGEND BELOW FOR FINISH DESIGNATIONS. REFER TO MATERIAL SCHEDULE BELOW FOR ADDITIONAL INFORMATION.
- B. ALL EXPOSED CONCRETE SHALL BE SEALED W/ SHERWIN-WILLIAMS CONCRETE SEALER - 2 COATS PER MANUFACTURER'S SPECIFICATIONS. REFER TO MATERIAL SCHEDULE BELOW.
- C. G.C. SHALL SUBMIT PAINT/STAIN SAMPLE FOR OWNERS APPROVAL PRIOR TO APPLICATION.
- D. KITCHEN QUARRY TILE FLOORING SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.

#### KEY NOTES #

- 1 NOT USED.
- 2 FLOOR SINK - REFER TO PLUMBING DRAWINGS.
- 3 NOT USED.
- 4 NOT USED.
- 5 EXISTING MOP SINK TO REMAIN.
- 6 H.C. ACCESSIBLE ALUMINUM THRESHOLD.
- 7 SCHLUTER TRANSITION STRIP.
- 8 CAST IRON HUB DRAIN @ STEAMERS - REFER TO PLUMBING DRAWINGS.
- 9 REPLACE PORTION OF EXIST. C.T. @ AREA OF DEMO/NEW CONSTRUCTION. PATCH & REPAIR EXIST. C.T. FLOORING TO MATCH ADJACENT.
- 10 EXISTING FLOORING TO REMAIN.

**FIREHOUSE** • **SUBS**™

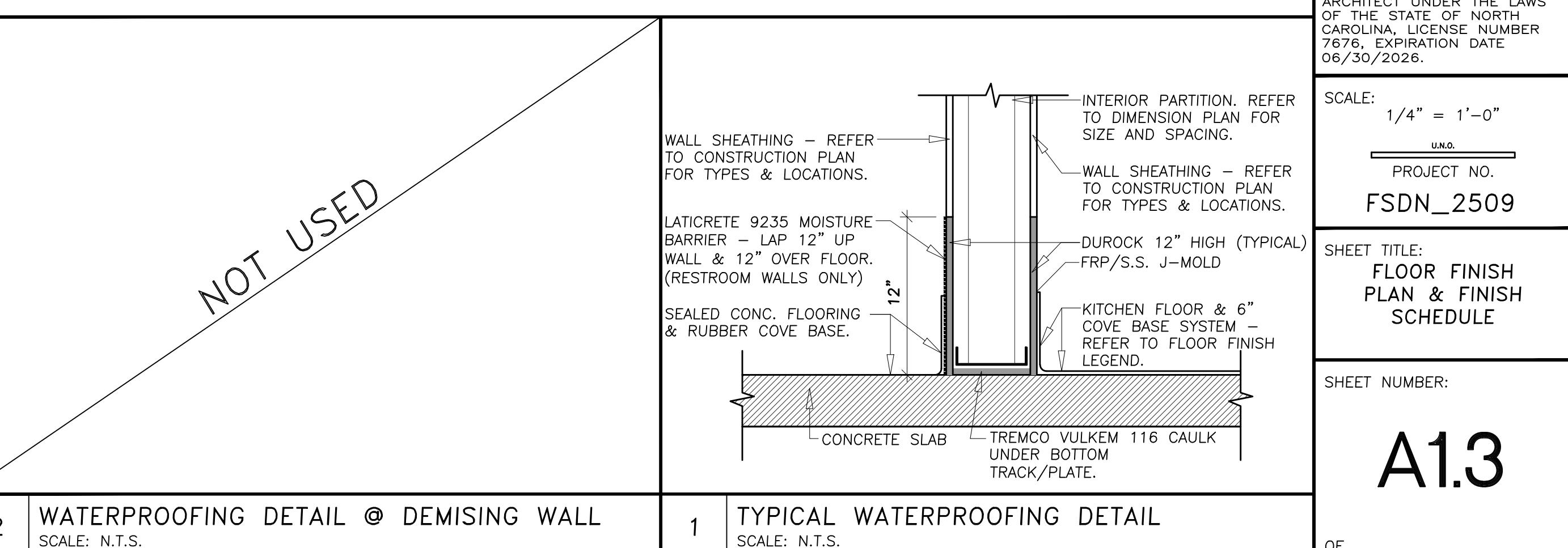
DUNN,  
NORTH CAROLINA

#### MATERIAL SCHEDULE

FLOORS			
F-1	QUARRY TILE	DALTILE	#007061A; 6"x6" HARVEST RED
			3/8" JOINTS, SANDED GROUT "CUSTM BUILDING PRODUCTS" SURECOLOR #60 CHARCOAL. SEE FINISH PLAN FOR PATTERN
F-2	QUARRY TILE COVE BASE FLOOR TRIM	DAL-TILE	#03665; 6"x6" HARVEST RED
			3/8" JOINTS, SANDED GROUT "CUSTM BUILDING PRODUCTS" SURECOLOR #60 CHARCOAL. SEE FINISH PLAN FOR PATTERN
F-3	QUARRY TILE COVE BASE OUTSIDE CORNER	DAL-TILE	#QC3665; 1"x6" HARVEST RED
			3/8" JOINTS, SANDED GROUT "CUSTM BUILDING PRODUCTS" SURECOLOR #60 CHARCOAL. SEE FINISH PLAN FOR PATTERN
F-4	QUARRY TILE COVE BASE INSIDE CORNER	DAL-TILE	#QC3665; 1"x6" HARVEST RED
			3/8" JOINTS, SANDED GROUT "CUSTM BUILDING PRODUCTS" SURECOLOR #60 CHARCOAL. SEE FINISH PLAN FOR PATTERN
BASE			
B-1	VINYL BASE	HOME DEPOT; ROPPE	6" BLACK COVE BASE.
WALL			
W-1	PAINTED GWB W/ SMOOTH FINISH		REFER TO INTERIOR ELEVATIONS.
W-2	PAINTED GWB W/ SMOOTH FINISH		REFER TO INTERIOR ELEVATIONS.
W-3	FRP PANELING	CRANE COMPOSITES	WHITE; EMBOSSED W/ SUFASEAL FINISH; #90 WHITE (85) EXTEND ABOVE CEILING. DO NOT EXTEND BEHIND TILE WALL BASE. ("OR EQUAL" MANUFACTURER & LOOK WILL ALSO BE ACCEPTED).
W-4	PAINTED GWB		SEE PAINT COLOR; LEVEL 4 FINISH. SMOOTH FINISH. REFER TO INTERIOR ELEVATIONS.
M-2	CHAIRRAIL	LOWES / HOME DEPOT	BLACK (PAINT P-2)
M-3	CROWN MOLDING	LOWES / HOME DEPOT	BLACK (PAINT P-2)
			#27215 / #369-594.
			#82051 / #734-072.
CEILING			
T-2	CERAMIC WALL TILE	DAL TILE	WHITE, 6"x6"; #D190
T-3	CERAMIC WALL TILE	SPARE	
TA-1	CERAMIC WALL TILE	DAL TILE	BLACK, 2"x6" BULLNOSE; #S4269
			DRY WHITE GROUT - UNSANDED #381.

#### ROOM FINISH LEGEND

ROOM NAME	FLOOR	BASE	WAINSCOT	WALL	CEILING	REMARKS
FRONT SERVICE LINE	F-1	F-2	N/A	W-3	C-2	



2 WATERPROOFING DETAIL @ DEMISING WALL

1 TYPICAL WATERPROOFING DETAIL

SCALE: N.T.S.

OF



GENERAL NOTES

- A. REFER TO FLOOR FINISH PLAN FOR FLOOR FINISH INFORMATION.
- B. ALL ITEMS PROVIDED BY MILLWORK CONTRACTOR TO BE INSTALLED BY G.C. UNLESS NOTED OTHERWISE.
- C. G.C. SHALL SUBMIT STAIN SAMPLE FOR OWNERS APPROVAL PRIOR TO APPLICATION.
- D. REFER TO RCP FOR CEILING AND SOFFIT HEIGHTS.
- E. REFER TO FINISH SCHEDULE FOR FINISH DESIGNATIONS.
- F. G.C. TO PROVIDE SOLID WOOD BLOCKING @ ALL DECOR LOCATIONS. VERIFY W/ CONSTRUCTION PROJECT MANAGER PRIOR TO INSTALLING WALL SHEATHING.

KEY NOTES

- 1 FINISHED FLOOR - REFER TO FLOOR FINISH PLAN.
- 2 BASE - REFER TO FINISH SCHEDULE.
- 3 WAINSCOT - REFER TO FINISH SCHEDULE.
- 4 CHARRAIL TRIM - REFER TO FINISH SCHEDULE.
- 5 G.W.B. PAINTED.
- 6 CORNICE TRIM - REFER TO FINISH SCHEDULE.
- 7 FINISHED CEILING - REFER TO RCP FOR FINISHES & HEIGHTS
- 8 NOT USED.
- 9 NOT USED.
- 10 NOT USED.
- 11 NOT USED.
- 12 WOOD DOOR - REFER TO DOOR SCHEDULE.
- 13 NOT USED.
- 14 MENUBOARDS - SUPPLIED BY OWNER AND INSTALLED BY G.C. - REFER TO ELECTRICAL DRAWINGS.
- 15 DECOR BY OWNER - G.C. TO COORDINATE INSTALLATION.
- 16 GRAPHICS BY OWNER - G.C. TO COORDINATE INSTALLATION.
- 17 NOT USED.
- 18 NOT USED.
- 19 NOT USED.
- 20 PENDANT LIGHT - REFER TO RCP.

DECOR & GRAPHICS SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	SIZE (W X H)	NOTES
D1	DONATION STATUS SIGN	PUBLIC IMAGERY	14" x 16"	
D2	DEFINITION HOOK & LADDER SIGN	PUBLIC IMAGERY	16.2" x 29.7"	
D3	ARE YOU HUNGRY?	PUBLIC IMAGERY	24" x 48"	
D4	BUNK ROOM	PUBLIC IMAGERY	60" x 12"	
D5	FOUNDATION LOGO SIGN	PUBLIC IMAGERY	27.75" x 26"	
D6	PICKLE BUCKET DISPLAY	PUBLIC IMAGERY	16" x 10"	
D9	FIRE ENGINE CO. SIGN	PUBLIC IMAGERY	59" x 11"	
D10	HOOK & LADDER CO. SIGN	PUBLIC IMAGERY	59" x 11"	
D11	FIRE RESCUE CO. SIGN	PUBLIC IMAGERY	59" x 11"	
D12	FIRE TRUCK ALUMINUM SIGN	PUBLIC IMAGERY	40" x 40"	
D13	FIRE STATION ALUMINUM SIGN	PUBLIC IMAGERY	24" x 18"	
D14	NO PARKING ALUMINUM SIGN	PUBLIC IMAGERY	12" x 18"	
D15	PUBLIC SAFETY FOUNDATION WALL FRAME W/ POSTER	PUBLIC IMAGERY	24" x 40" (OVERALL)	
D16	FHS MISSION STATEMENT FRAMED	PUBLIC IMAGERY	15" x 18"	
D17	FIREHOUSE SUBS LOGO VINYL	PUBLIC IMAGERY	20" x 5"	
D18	FIRE CALL BOX SIGN	PUBLIC IMAGERY		
D19	FHS B&W STOCK PHOTOS	PUBLIC IMAGERY		
D20	FZ SUPPLIED FRAMED LOCAL PHOTOS	PUBLIC IMAGERY	36" x 23"	
D21	FZ SUPPLIED FRAMED LOCAL PHOTOS	PUBLIC IMAGERY	40" x 36"	
D22	FIRE SYMBOL VINYL DECAL (VINYL LOGO)	PUBLIC IMAGERY	CUSTOM	SPEC SIZE WHEN ORDERING

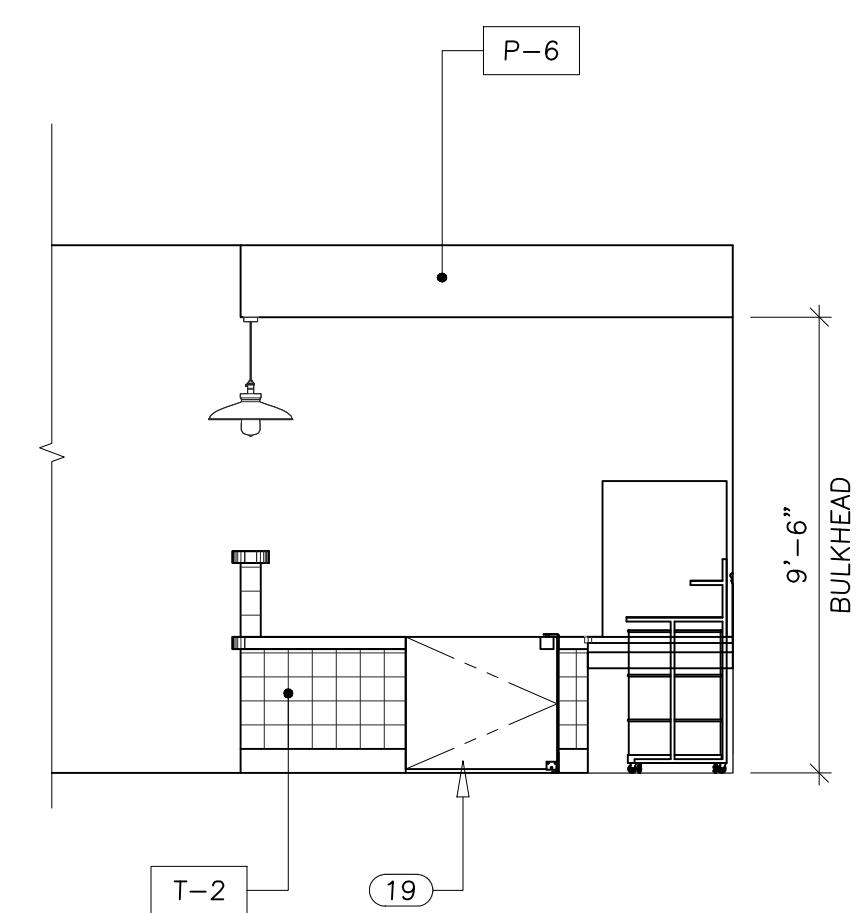
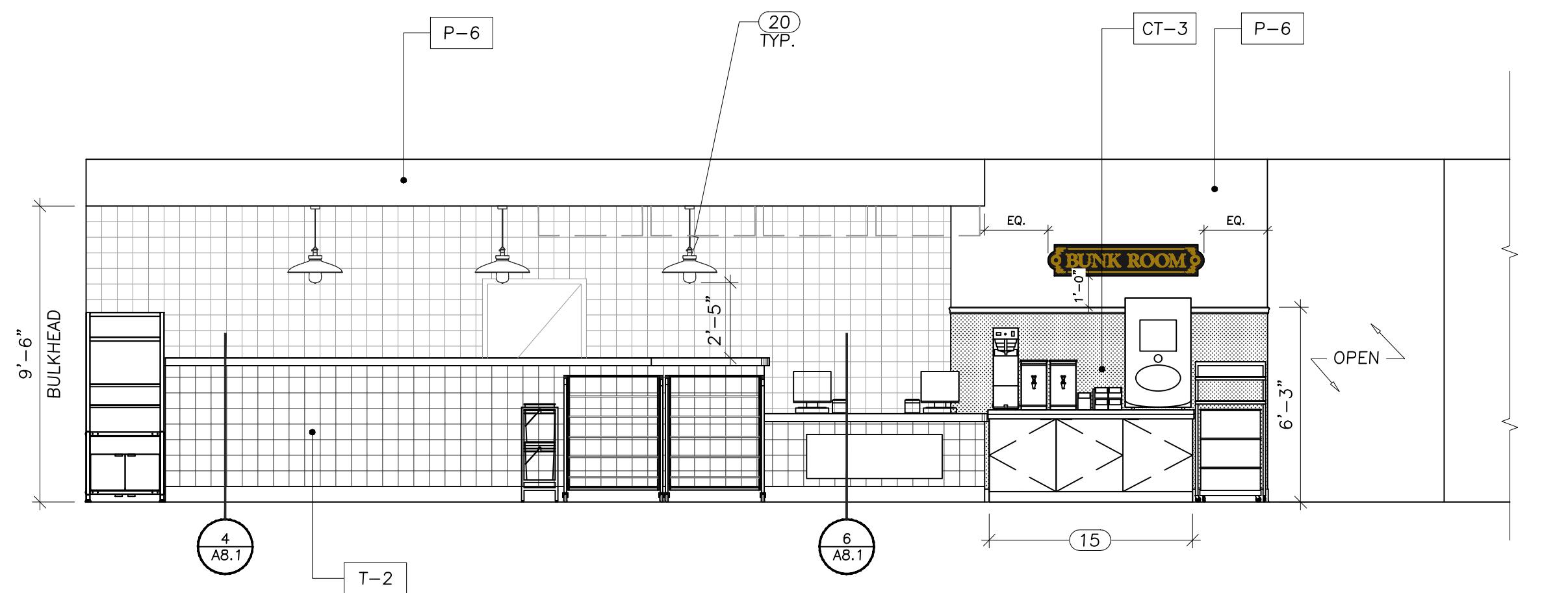
CONTACT:

LOUISE YOUNG  
(813) 985-9000 x 2015

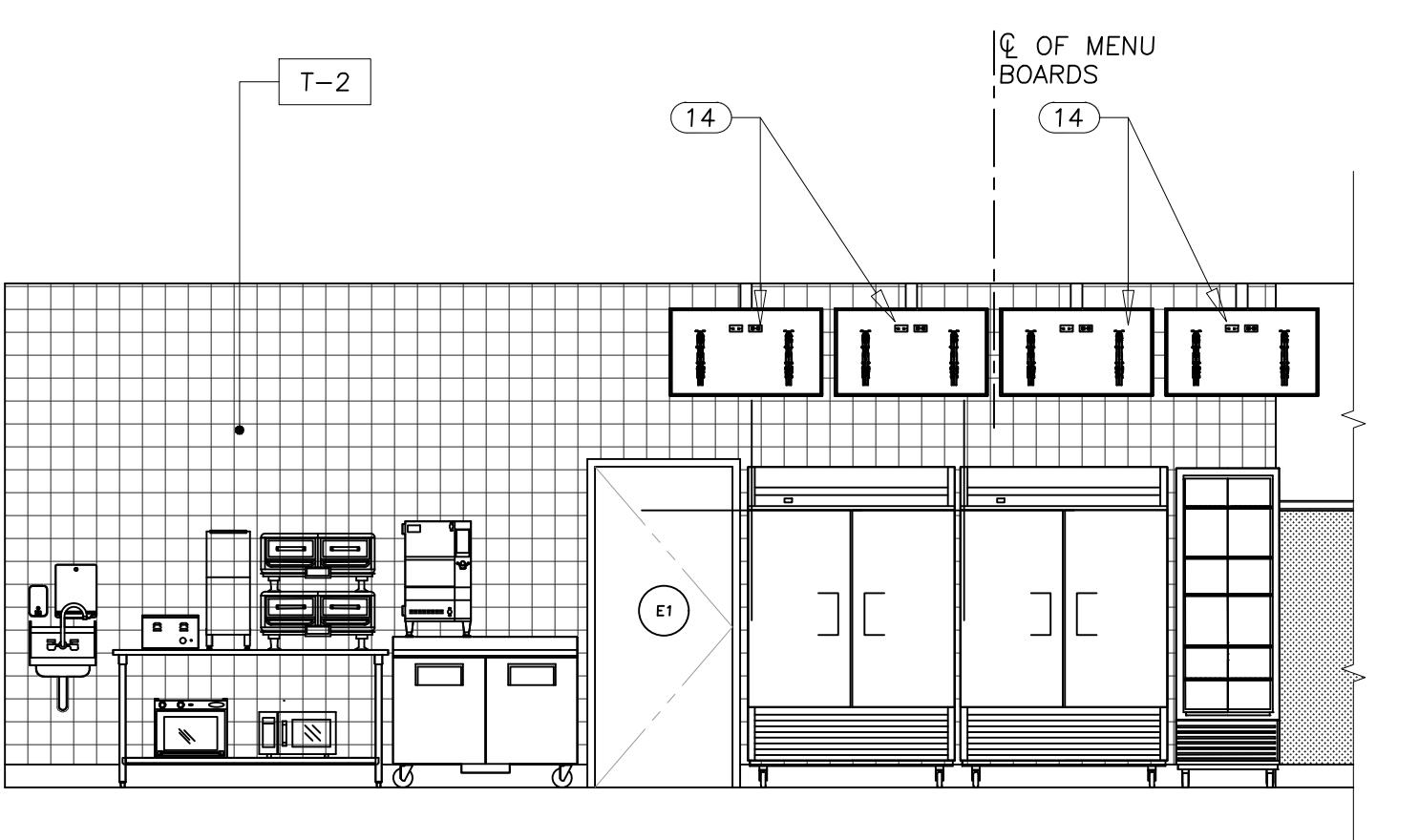
lyoung@publicimager.com

LISA GEDGE  
(813) 985-9000 x 2014

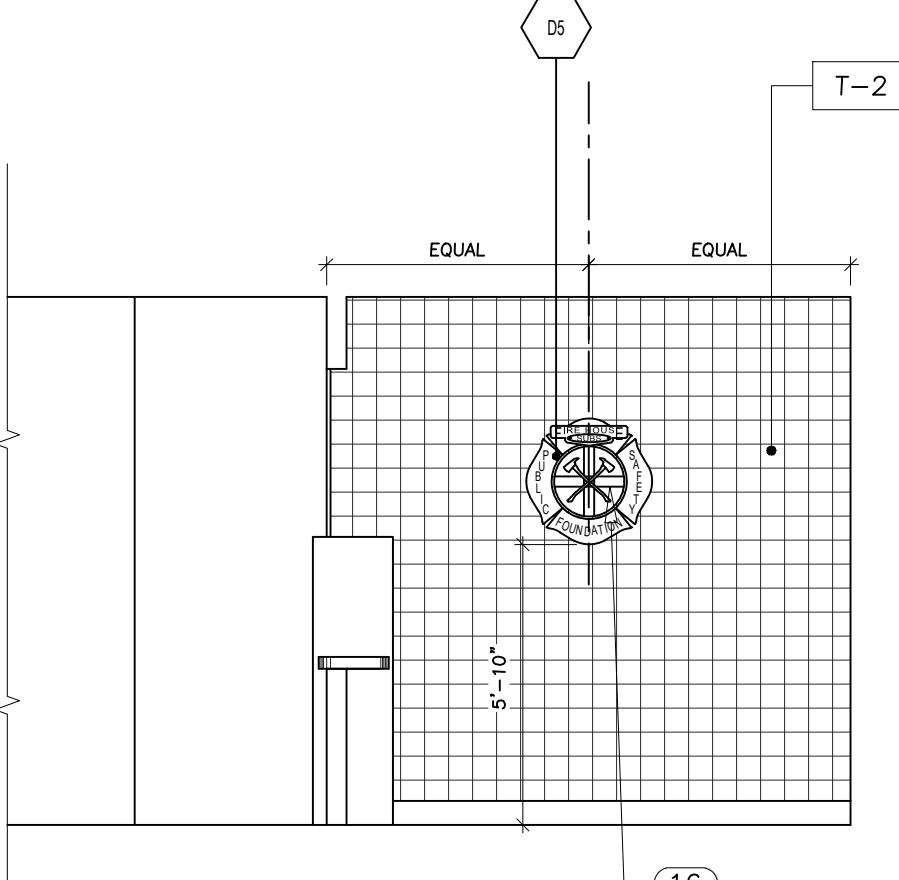
lgedge@publicimager.com



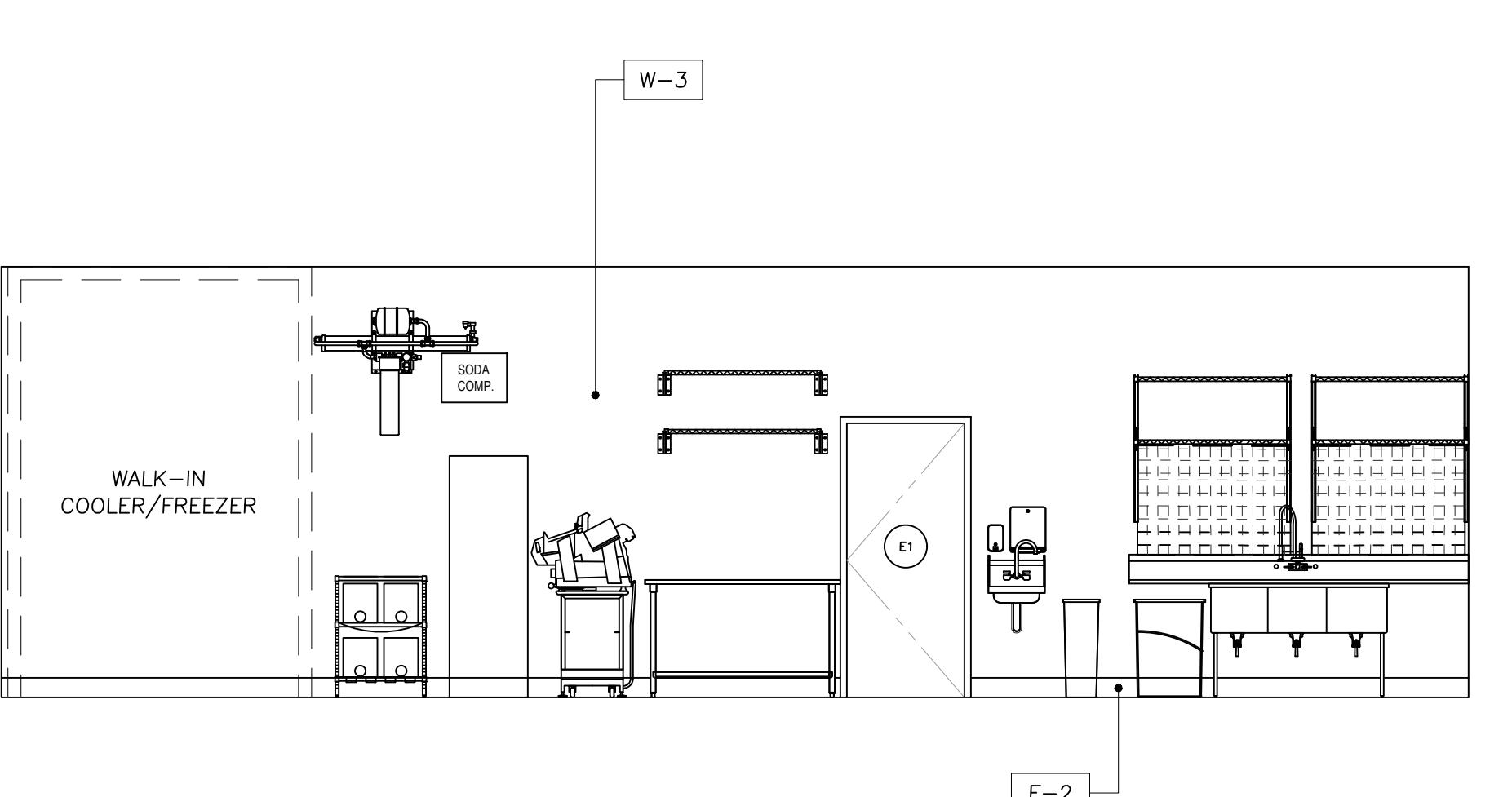
1 COUNTER



2 SIDE COUNTER / DRINK STATION

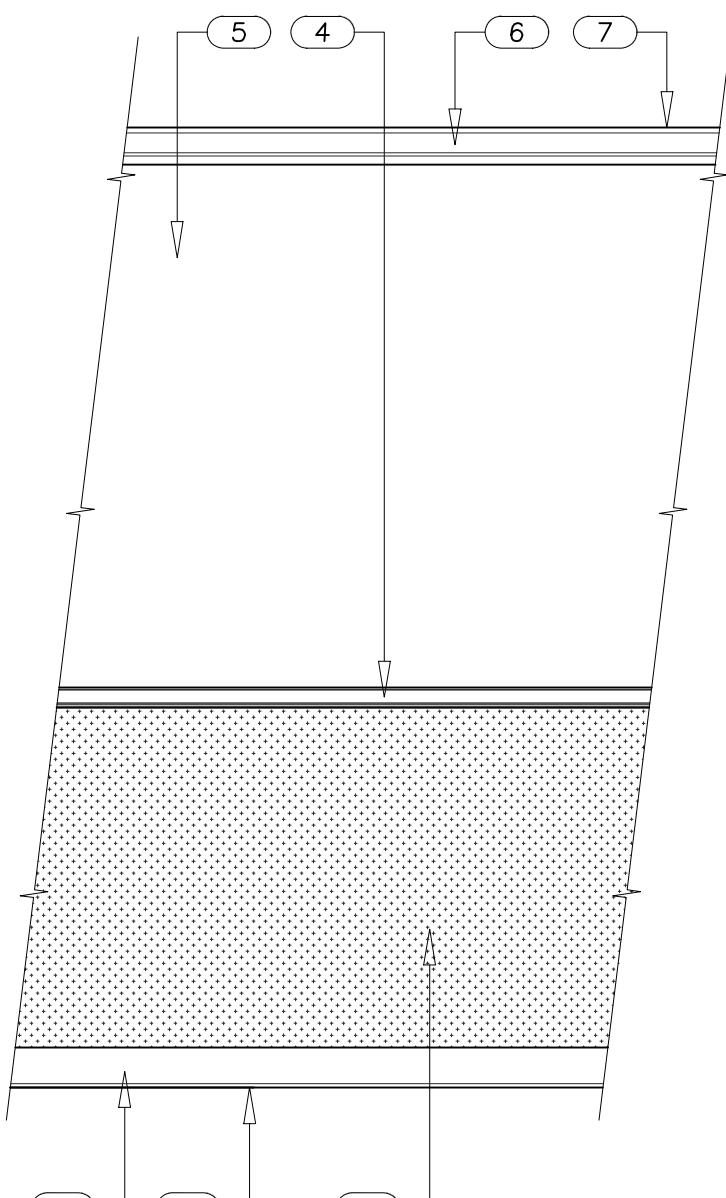


3 BEHIND COUNTER

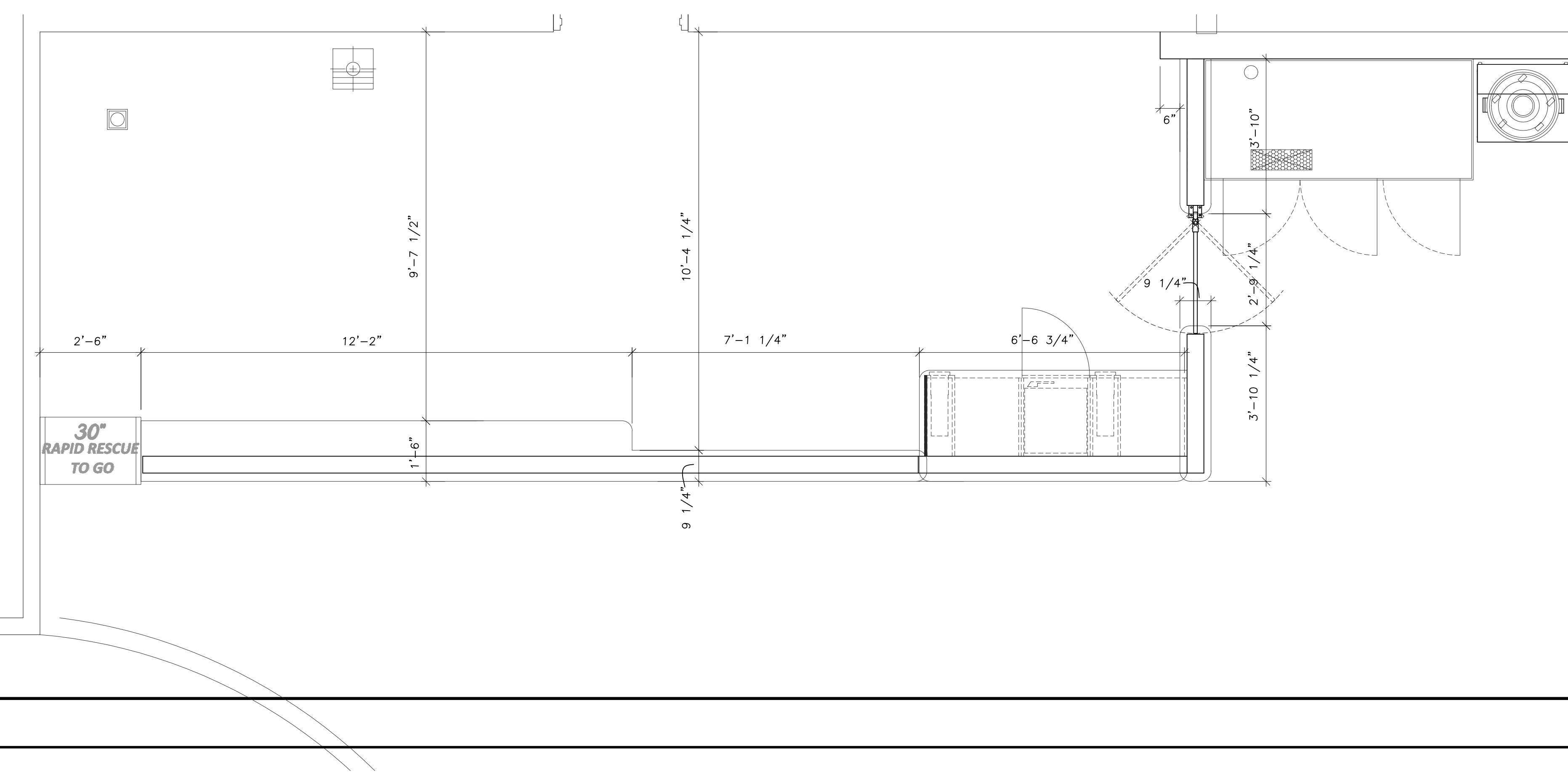


4 BEHIND COUNTER

5 KITCHEN PREP



							<p><b>GENERAL NOTES</b></p> <p>A. REFER TO APPROVED MILLWORK SHOP DRAWINGS FOR FURNITURE SPECS.      B. REFER TO MATERIAL SCHEDULE ON FLOOR FINISH PLAN FOR ADDITIONAL INFORMATION.      C. REFER TO INTERIOR ELEVATION SHEETS FOR LOCATION OF INTERIOR FINISHES.      D. CC TO ENSURE NO SHARP CORNERS FOR ALL CASING, TRIM, AND ANY OTHER WOOD CONSTRUCTION.</p> <p><b>KEY NOTES</b> (NOT ALL KEY NOTES MAY APPLY)</p> <ol style="list-style-type: none"> <li>FINISHED CEILING - REFER TO RCP FOR HEIGHTS &amp; FINISHES.</li> <li>METAL STUD PARTITION - REFER TO CONSTRUCTION PLAN FOR SIZE &amp; SPACING.</li> <li>GWB PAINTED - REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.</li> <li>EXTEND GWB BEHIND PERIMETER WAINSCOT PANELING.</li> <li>FINISHED FLOOR - REFER TO FINISH FLOOR PLAN.</li> <li>C.T. WAINSCOT.</li> <li>BASE - REFER TO MATERIAL SCHEDULE ON FLOOR FINISH PLAN.</li> <li>CONCRETE SLAB.</li> <li>WAINSCOT PANELING ADHERED TO GWB SHEATHING - REFER TO MATERIAL SCHEDULE ON FLOOR FINISH PLAN.</li> <li>CONT. ALUMINUM GREY SEALANT AROUND PERIMETER &amp; @ PANEL JOINTS.</li> <li>P-LAM COUNTERTOP - REFER TO MATERIAL SCHEDULE ON FLOOR FINISH PLAN. WRAP MELAMINE UNDERSIDE, TYP. OVERLAP MELAMINE TO END OF COUNTERTOP.</li> <li>CHAIRAIL TRIM MOLDING - REFER TO MATERIAL SCHEDULE ON FLOOR FINISH PLAN.</li> <li>NOT USED.</li> <li>DUROCK SHEATHING.</li> <li>CONTINUOUS CLEAR SILICON CAULK.</li> <li>2x2x1/4" T.S. POST WELDED TO A 4"x5"x1/2" PLATE, ATTACH TO CONCRETE SLAB W/ (4) HILTI HAS-SUPER RODS 1/2" dia. IN HY-150-MAX ADHESIVE, 3" EMBEDMENT @ 60° O.C. W/ MTL STUDS ON EACH SIDE OF POST(S).</li> <li>PLYWOOD SHEATHING - REFER TO COVER SHEET FOR FRP REQUIREMENTS.</li> <li>THIN BRICK VENEER W/ GROUT LINES (NON-TOOLED) - REFER TO INTERIOR ELEVATIONS &amp; FINISH SCHEDULE FOR SPECS. START BRICK AT TOP OF CHAIR RAIL OR AS NOTED.</li> <li>FRP PANELING.</li> <li>NOT USED.</li> <li>TRACK LIGHT - REFER TO RCP.</li> <li>P-LAM END PANEL.</li> <li>ORDER COUNTER MILLWORK CABINETS BY MILLWORK VENDOR.</li> <li>(3) LAMINATED 2x12 - STAINED ST-1. MOUNTED VERTICALLY ON WALL.</li> <li>5/8" dia. BOLTS W/ WASHERS @ 18" O.C. VERTICALLY - PAINTED BLACK.</li> </ol>
							<p><b>PLAN DATES</b></p> <p>REV. SUBMISSION 10/01/2025      PROGRESS SUBMISSION 10/10/2025      BID &amp; PERMIT SUBMISSION (703) 591-0747</p>



**JON W. SAMMER**  
 ARCHITECT, AIA  
 4101 Chain Bridge Road  
 SUITE 102  
 FAIRFAX, VIRGINIA 22030  
 (703) 591-0747

**FIREHOUSE** • **SUBS**™

DUNN,  
 NORTH CAROLINA

SEAL:

I CERTIFY THAT THESE DRAWINGS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A FULLY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF NORTH CAROLINA, LICENSE NUMBER 7614, EXPIRATION DATE 06/30/2026.

SCALE:  
 AS SHOWN  
 w.o.  
 PROJECT NO.  
 FSDN\_2509

SHEET TITLE:  
 INTERIOR DETAILS:  
 CUSTOMER AREA

SHEET NUMBER:

**A8.1**

OF



## ELECTRICAL LEGEND

	LED TROFFER, TYPE AS NOTED		DUPLEX RECEPTACLE 18' AFF OR AS NOTED, NEMA 5-20R
	LED TROFFER, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST		WEATHER PROOF DUPLEX RECEPTACLE 18' AFF OR AS NOTED, NEMA 5-20R
	LED TROFFER, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST		WEATHER PROOF DUPLEX RECEPTACLE AFF AS NOTED, NEMA 5-20R W/ USB CHARGER
	RECESSED CAN FIXTURE, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST		DUPLEX RECEPTACLE 18' AFF OR AS NOTED, NEMA 5-20R
	RECESSED CAN FIXTURE, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST		DUPLEX RECEPTACLE 18' AFF OR AS NOTED, NEMA 5-20R
	LED STRIP FIXTURE		SPECIAL PURPOSE RECEPTACLE 18' AFF OR AS NOTED, SEE SCHEDULE
	WALL MOUNTED FIXTURE, TYPE AS NOTED		WALL / CEILING MOUNTED JUNCTION BOX
	PENDANT FIXTURE, TYPE AS NOTED	60/3/1	UNFUSED DISCONNECT SWITCH RATING/POLES/NEMA RATING
	PENDANT FIXTURE, TYPE AS NOTED PROVIDE WITH EMERGENCY BALLAST	60/3/3R40	FUSED DISCONNECT SWITCH RATING/POLES/NEMA RATING/FUSE SIZE
	TRACK LIGHT FIXTURE, TYPE AS NOTED		MOTOR
	EMERGENCY LIGHT		GROUND
	EXIT/EMERGENCY LIGHT COMBINATION		TRANSFORMER
	CEILING MOUNTED EXIT SIGN		UTILITY GRADE METER
	WALL MOUNTED EXIT SIGN		TRANSIENT VOLTAGE SURGE SUPPRESSOR
	SINGLE POLE SWITCH, 44' AFF		TELEPHONE OUTLET, PROVIDE 4' BOX SINGLE GANG PLASTER RING, 3/4" C ABOVE CEILING
	TWO SINGLE POLE SWITCHES GANGED TOGETHER FOR INNER/OUTER CONTROL OF LAMPS, 44' AFF		DATA OUTLET, PROVIDE 4' BOX SINGLE GANG PLASTER RING, 3/4" C ABOVE CEILING
	THREE SINGLE POLE SWITCHES GANGED TOGETHER 44' AFF		TELEVISION/CABLE OUTLET
	THREE WAY SWITCH, 44' AFF		TELEPHONE OUTLET, PROVIDE 4' BOX FLUSH IN FLOOR, 3/4" C ABOVE CEILING
	TWO THREE WAY SWITCHES GANGED TOGETHER FOR INNER/OUTER CONTROL OF LAMPS, 44' AFF		DATA OUTLET, PROVIDE 4' BOX FLUSH IN FLOOR, 3/4" C ABOVE CEILING
	FOUR WAY SWITCH, 44' AFF		DOOR HOLD-OPEN DEVICE
	WALL BOX DIMMER 1000W UNLESS NOTED DIFFERENTLY 44' AFF		TRANSFORMER, SEE ONE LINE
	WEATHER PROOF SWITCH, 44' AFF		SPEAKER STROBE
	MOTOR RATED SWITCH, 44' AFF OR AS NOTED		HORN
	COMBINATION SWITCH AND OCCUPANCY SENSOR, 44' AFF TYPE WSD OR EQUAL		PULL STATION
	DIGITAL TIMER SWITCH, 44' AFF		FIRE ALARM STROBE, MIN 75 CANDELA CEILING / WALL MOUNT
	CEILING MOUNTED OCCUPANCY SENSOR		DUCT MOUNTED SMOKE DETECTOR
	WALL MOUNTED OCCUPANCY SENSOR, 44' AFF		SMOKE DETECTOR
	TIME CLOCK		HEAT DETECTOR
	LIGHTING CONTACTOR		TAMPER SWITCH
	PHOTO CELL		FLOW SWITCH
	8" CONE SPEAKER IN CEILING EC TO PROVIDE BLACK SPEAKER		RACEWAY CONCEALED IN WALL OR ABOVE CEILING
	8" CONE SPEAKER IN WALL EC TO PROVIDE BLACK SPEAKER		RACEWAY EXPOSED
	VOLUME CONTROL		RACEWAY CONCEALED IN FLOOR SLAB, BELOW SLAB OR GRADE, OR UNDER RAISED ACCESS FLOOR
	PLYWOOD EQUIPMENT BACKBOARD 4X8' UNLESS NOTED OTHERWISE		DENOTES CONDUIT TURNING UP IN PLAN VIEW
	CLOSED CIRCUIT TELEVISION CAMERA		DENOTES CONDUIT TURNING DOWN IN PLAN VIEW
	XXXX		STUB UP

(NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS AND ARE USED AS APPLICABLE TO THIS PROJECT)

## ABBREVIATIONS

A, AMPS	AMPERES	FLA	FULL LOAD AMPERES	NO	NORMALLY OPEN, NUMBER
A/C	AIR CONDITIONER	GND	GROUND	NTS	NOT TO SCALE
AC	ALTERNATING CURRENT	GALV	GALVANIZED	PNL	PANELBOARD
AF	AMPERE FRAME	GRS	GALVANIZED RIGID STEEL	PVC	POLYVINYL CHLORIDE
AFF	ABOVE FINISHED FLOOR	GFCI	GROUND FAULT	RGS	RIGID GALVANIZED
AFG	FINISHED GRADE		CIRCUIT INTERRUPTER		STEEL CONDUIT
AIC	AMPERE IN	GFI	GROUND FAULT INTERRUPTER	RMC	RIGID METALLIC
INTERRUPTING CURRENT		HD	HEAT DETECTOR	CONDUIT (GALVANIZED)	
AL	ALUMINUM	HP	HORSEPOWER	RMS	ROOT-MEAN-SQUARE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	IMC	INTERMEDIATE METAL CONDUIT	RNC	RIGID NON-METALLIC
AWG	AMERICAN WIRE GAUGE	ISC	INTERRUPTING SHORT CIRCUIT	SCA	SHORT CIRCUIT
BC	BARE COPPER	IG	ISOLATED GROUND	AVAILABLE	
BKBD	BACKBOARD	INST	INSTANTANEOUS	SWBD	SWITCHBOARD
C	CONDUIT	KAIC	KILO (THOUSAND) AMPERES	SWGR	SWITCHGEAR
CB	CIRCUIT BREAKER		INTERRUPTING CAPACITY	TBD	TO BE DETERMINED
CKT	CIRCUIT	KCMIL	KILO (THOUSAND)	TCP	TEMPERATURE CONTROL
CU	COPPER		CIRCULAR MILS	PANEL	
DIST	DISTRIBUTION	KV	KILO (THOUSAND) VOLTS	TD	TIME DELAY
DN	DOWN	KVA	KILO (THOUSAND)	TEL	TELEPHONE
DP	DISTRIBUTION PANEL	KW	KILO (THOUSAND) WATTS	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
DWG	DRAWING	KWH	KILO (THOUSAND) WATT-HOURS	TYP	TYPICAL
EB	ENCASED BURIAL	KWH	KILO (THOUSAND) WATT-HOURS	UG	UNDERGROUND
EC	EMPTY CONDUIT	LFMC	LIQUID-TIGHT FLEXIBLE METAL CONDUIT	UON	UNLESS OTHERWISE
EEW	ENERGIZED ELECTRICAL WORK			UNDERGROUND PULLBOX	
EGC	EQUIPMENT GROUNDING CONDUCTOR	MCB	MAIN CIRCUIT BREAKER	V	VOLTS
ELR	END-OF-LINE RESISTOR	MCM	THOUSAND CIRCULAR MILS	V	VOLT-AMPERES
EWC	ELECTRIC WATER COOLER	MCCB	MOLDED CASE	VFD	VARIABLE
<E>	EXISTING	MLO	MAIN LUGS ONLY	WH	FREQUENCY DRIVE
<ER>	EXISTING TO REMAIN	N	NEUTRAL	WP	WATER HEATER
<E>	EXISTING	NEC	NATIONAL ELECTRICAL CODE	WT	WEATHERPROOF
FA	FIRE ALARM	NESC	NATIONAL ELECTRICAL SAFETY CODE	XFMR	WATERTIGHT
FAA	FIRE ALARM ANNUNCIATOR	NIC	NOT IN CONTRACT NIGHT LIGHT		TRANSFORMER
FACP	FIRE ALARM CONTROL PANEL	NL			

## ELECTRICAL SPECIFICATIONS

A. DEFINITIONS:

1. "PROVIDE": FURNISH AND INSTALL, COMPLETE AND READY FOR OPERATION.
2. "INSTALL": RECEIVE, MOUNT, AND CONNECT, COMPLETE AND READY FOR OPERATION.
3. "FURNISH": SUPPLY, DELIVER TO JOB SITE, PROTECT AND STORE.

B. WORK INCLUDED: PROVIDE ALL LABOR, TOOLS, MATERIAL, EXCAVATION, BACKFILL, CUTTING, PATCHING, TESTING, ADJUSTING, AND TRADE COORDINATION REQUIRED FOR A COMPLETE AND FULLY OPERATIONAL INSTALLATION, AS DESCRIBED ON THE DRAWINGS OR IN THE SPECIFICATIONS.

C. CODES, RULES, AND REGULATIONS: COMPLY WITH ALL CODES ENFORCED BY THE LOCAL INSPECTION AUTHORITY, THE EDITION OF THE NATIONAL ELECTRICAL CODE BEING ENFORCED FOR THIS PROJECT BY THE LOCAL INSPECTION AUTHORITY, ALL APPLICABLE LAWS AND ORDINANCES, NFPA FIRE CODES, STANDARD BUILDING CODE. GIVE ALL NECESSARY NOTICES, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL INSPECTION AND OTHER FEES REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER THE WORK.

D. MATERIALS: ALL MATERIAL SHALL BE NEW, AND SHALL COMPLY WITH THE INDICATED STANDARDS. ALL MATERIAL SHALL BE UL LABELED OR UL LISTED. ALL MATERIAL SHALL BE OF A SUITABLE TYPE AND RATING FOR THE INTENDED USE, AND SHALL BE INSTALLED IN CONFORMANCE WITH THE INSTRUCTIONS AND RECOMMENDATIONS OF THE MANUFACTURER.

E. DRAWINGS:

1. THE DRAWINGS ARE SCHEMATIC IN NATURE AND DO NOT SHOW ALL OF THE REQUIRED DETAILS OF THE WORK. ALL MATERIALS CUSTOMARILY CONSIDERED TO BE A PART OF THE ELECTRICAL WORK AND REQUIRED FOR A COMPLETE AND OPERATIONAL INSTALLATION SHALL BE PROVIDED WITHOUT ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL REFER ALSO TO THE ARCHITECTURAL DRAWINGS AND TO THE DRAWINGS OF ALL OTHER TRADES TO COORDINATE THE ELECTRICAL INSTALLATION. WHERE ELECTRICAL EQUIPMENT IS SHOWN ON ARCHITECTURAL DRAWINGS OR DETAILS, THE EQUIPMENT SHALL BE INSTALLED AS SHOWN ON THE ARCHITECTURAL DRAWINGS.
3. EQUIPMENT OF OTHER TRADES IS SHOWN SCHEMATICALLY ON THE ELECTRICAL DRAWINGS. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS OF THE TRADE PROVIDING THE EQUIPMENT BEFORE ROUGHING IN THE CONNECTIONS FOR IT. THE CONTRACTOR SHALL CONNECT THE EQUIPMENT WHERE ACTUALLY INSTALLED, INCLUDING WIRING THROUGH ANY LINE VOLTAGE CONTROLLERS, WITHOUT ANY ADDITIONAL COST TO THE OWNER.
4. PRIOR TO ROUGHING IN CIRCUITS FOR EQUIPMENT FURNISHED BY OTHER TRADES, AND PRIOR TO RELEASING FOR MANUFACTURE PANELBOARDS, STARTERS OR MOTOR CONTROL CENTERS FEEDING SUCH EQUIPMENT, THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL PROVISIONS BEING PLANNED WITH THE TRADE PROVIDING THE EQUIPMENT AND SUBMIT ANY CONFLICTS IN WRITING TO THE ARCHITECT.
5. THE ARCHITECT MAY DIRECT THE RELOCATION OF ANY ELECTRICAL OUTLET, FIXTURE, OR OTHER EQUIPMENT TO A LOCATION WITHIN 10 FEET OF THE LOCATION SHOWN ON THE DRAWINGS AT NO ADDITIONAL COST TO THE OWNER. PROVIDING SUCH RELOCATION IS DIRECTED PRIOR TO THE INSTALLATION OF THE OUTLET, FIXTURE OR EQUIPMENT BEING RELOCATED.

F. SUBMITTAL DOCUMENTS: PRODUCT DATA AND SHOP DRAWINGS SHALL BE SUBMITTED IN SIX COPIES TO THE ARCHITECT FOR REVIEW PRIOR TO THE RELEASE OF THE MATERIAL FOR MANUFACTURE. REVIEW OF SUBMITTALS BY THE ARCHITECT WILL BE ONLY FOR GENERAL CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. REVIEW WILL BE MADE ONLY OF INFORMATION CLEARLY AND SPECIFICALLY INDICATED IN THE SUBMITTAL, AND DOES NOT IMPLY THE ACCEPTABILITY OF DETAILS WHICH ARE NOT SO DESCRIBED IN THE SUBMITTAL. REVIEW OF THE SUBMITTAL DOCUMENTS BY THE ARCHITECT DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO COMPLY WITH ALL REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. SUBMITTAL IS REQUIRED FOR PANELBOARDS AND LOADCENTERS, LIGHT FIXTURES, WIRING DEVICES, FIRE ALARM DEVICES, AND SURFACE ALUMINUM RACEWAY.

G. AS-BUILT DRAWINGS: AS-BUILT DRAWINGS SHALL BE MAINTAINED AT THE JOBSITE, AND SHALL BE AVAILABLE FOR REVIEW DURING CONSTRUCTION. AS-BUILT DRAWINGS SHALL BE KEPT CURRENT DURING THE COURSE OF CONSTRUCTION OF THE WORK. SUBMIT AS-BUILT DRAWINGS TO THE ARCHITECT AT THE COMPLETION OF THE PROJECT.

H. TESTING: TEST ALL PARTS OF THE WORK TO VERIFY COMPLIANCE WITH THE DRAWINGS AND SPECIFICATIONS. VERIFY TIGHTNESS OF ALL MECHANICAL AND ELECTRICAL CONNECTIONS. VERIFY INTEGRITY OF ALL WIRING SYSTEMS TO ASSURE CONTINUITY, ABSENCE OF UNINTENTIONAL GROUNDS, AND INTEGRITY OF REQUIRED GROUNDS.

I. CHANGE REQUEST (CHANGE ORDER) APPROVAL: CHANGE REQUESTS WILL NOT BE CONSIDERED UNLESS THE CONTRACTOR'S DETAILED LABOR AND MATERIAL ESTIMATE DESCRIBING THE CHANGE IS SUBMITTED TO THE ARCHITECT ALONG WITH THE CHANGE REQUEST, WITH MATERIAL PRICES AND LABOR UNITS ASSIGNED TO EACH LINE ITEM OF THE ESTIMATE. MATERIAL PRICES SHALL BE THE ACTUAL PRICE PAID BY THE CONTRACTOR FOR MATERIAL PURCHASED OR THE ACTUAL PRICE QUOTED TO THE CONTRACTOR BY THE MATERIAL VENDOR PROPOSED BY THE CONTRACTOR.

J. COORDINATION WITH THE WORK OF OTHERS: COORDINATE WITH EACH TRADE FURNISHING EQUIPMENT REQUIRING ELECTRICAL SERVICE TO INSURE THAT THE CHARACTERISTICS SHOWN ON THE DRAWINGS FOR THE CIRCUIT SERVING THE EQUIPMENT ARE COMPATIBLE WITH THE REQUIREMENTS OF THE EQUIPMENT BEING FURNISHED. CIRCUIT BREAKERS, FUSES, DISCONNECT SWITCHES AND ASSOCIATED BRANCH CIRCUITS SHOWN ON THE DRAWINGS TO FEED HVAC EQUIPMENT, KITCHEN EQUIPMENT, ELEVATOR MOTORS, AND OTHER EQUIPMENT HAVE BEEN SELECTED BASED UPON THE CHARACTERISTICS OF EQUIPMENT BY ONE MANUFACTURER AND MAY NOT BE CORRECT FOR THE EQUIPMENT BEING PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL DETERMINE THE OPERATING CHARACTERISTICS OF THE EQUIPMENT ACTUALLY BEING PROVIDED AND SHALL PROVIDE AT NO ADDITIONAL COST TO THE OWNER CIRCUIT BREAKERS, FUSES, DISCONNECT SWITCHES AND BRANCH CIRCUITS AS REQUIRED BY THAT EQUIPMENT.

K. EXISTING WORK: THE EXISTING ELECTRICAL INSTALLATION SHALL REMAIN AS-IS AND IN OPERATION EXCEPT WHERE OTHERWISE REQUIRED. GIVE WRITTEN NOTICE

# ELECTRICAL LEGEND

# ELECTRICAL LEGEND

	DUPLEX RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	WEATHER PROOF DUPLEX RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	WEATHER PROOF DUPLEX RECEPTACLE AFF AS NOTED, NEMA 5-20R W/ USB CHARGER
	DUPLEX RECEPTACLE ABOVE COUNTER OR AS NOTED, NEMA 5-20R
	QUAD RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	DUPLEX RECEPTACLE 18" AFF OR AS NOTED, NEMA 5-20R
	SPECIAL PURPOSE RECEPTACLE 18" AFF OR AS NOTED, SEE SCHEDULE
	WALL / CEILING MOUNTED JUNCTION BOX
	60/3/1 UNFUSED DISCONNECT SWITCH RATING/POLES/NEMA RATING
	60/3/3R/40 FUSED DISCONNECT SWITCH RATING/POLES/NEMA RATING/FUSE SIZE
	TELEPHONE OUTLET, PROVIDE 4" BOX SINGLE GANG PLASTER RING, 3/4" C ABOVE CEILING
	DATA OUTLET, PROVIDE 4" BOX SINGLE GANG PLASTER RING, 3/4" C ABOVE CEILING
	TELEVISION/CABLE OUTLET
	TELEPHONE OUTLET, PROVIDE 4" BOX FLUSH IN FLOOR, 3/4" C ABOVE CEILING
	DATA OUTLET, PROVIDE 4" BOX FLUSH IN FLOOR, 3/4" C ABOVE CEILING
	TIME CLOCK
	LIGHTING CONTACTOR
	PHOTO CELL

## **GFCI NOTE**

ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS IN KITCHENS AND FOOD PREP AREAS SHALL USE GFCI BREAKER TYPE. GFCI BREAKERS SHALL BE INSTALLED IN ACCORDANCE WITH 2020 NEC ARTICLE 210.8.

ALL 125-VOLT THROUGH 250-VOLT RECEPTACLES SUPPLIED BY SINGLE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 50 AMPERES OR LESS, AND ALL RECEPTACLES SUPPLIED BY THREE-PHASE BRANCH CIRCUITS RATED 150 VOLTS OR LESS TO GROUND, 100 AMPERES OR LESS IN RESTROOMS, WITHIN 6 FEET FROM A SINK, OR ON EXTERIOR SHALL BE INSTALLED IN ACCORDANCE WITH 2020 NEC ARTICLE 210.8 AND BE READY ACCESSIBLE. FOR EQUIPMENT THAT WOULD HAVE TO BE MOVED TO RESET THE RECEPTACLE PER THE NEC DEFINITION. A GFCI BREAKER SHALL BE UTILIZED IN LIEU OF A RECEPTACLE.

## POWER AND SYSTEMS NOTES:

1. CONFIRM ALL RECEPTACLES AND DATA MOUNTING HEIGHTS WITH OWNER PRIOR TO ROUGH-IN. ALL CONDUCTORS ARE COPPER AND #12AWG OR LARGER UNLESS NOTED OTHERWISE.
2. RECEPTACLES AT P.O.S. SHALL BE SURGE PROTECTED. PROVIDE SURGE PROTECTION. SURGE PROTECTOR SHALL BE EATON, 120/208V, 100KA NOM, DISCHARGE AMPS 20KA, 200KA AMPS SC RATED OR APPROVED EQUAL.
3. PROVIDE WORKING CLEARANCE IN FRONT OF PANELS PER N.E.C. COORDINATE FINAL LOCATION WITH OWNER.
4. DIGITAL MENU BOARD RECEPTACLES INSTALLED AT 90" AFF. VERIFY FINAL LOCATION WITH OWNER PRIOR TO ROUGH-IN.
5. G.C TO FIELD VERIFY EXISTING BREAKER POSITIONS IN EXISTING PANEL "A" FOR ALL EXISTING EQUIPMENT CONNECTIONS.
6. NOT USED
7. G.C RESPONSIBLE FOR ALL DATA RUNS AND TERMINATIONS FOR THIS LOCATION FOR POS VENDOR.
8. G.C. SHALL VERIFY AND COORDINATE ALL ELECTRICAL REQUIREMENTS FOR WALK-IN FREEZER AND COOLER WITH OWNER AND VENDOR PRIOR ROUGH-IN
9. G.C SHALL VERIFY ALL ELECTRICAL REQUIREMENTS PRIOR ROUGH-IN.

## POS DATA AND POWER NOTES:

## P.O.S. STATION:

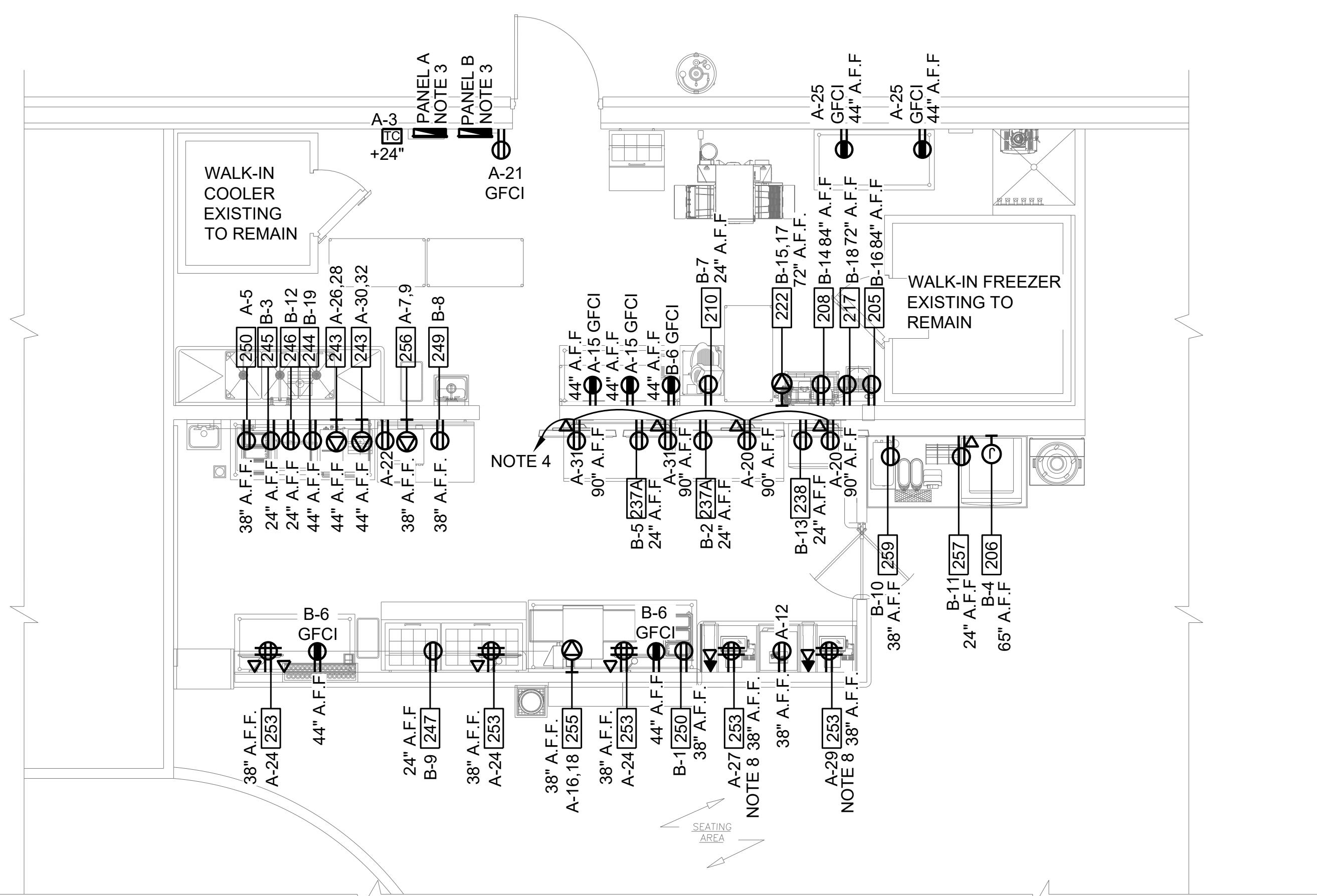
- CONTRACTOR TO PROVIDE (1) DEDICATED, ISOLATED GROUND RECEPTACLE (ORANGE) FOR EACH P.O.S. STATION.
- CONTRACTOR TO PROVIDE (1) J-BOX AT EACH P.O.S. STATION W/ (3) TERMINATED CAT-5 CABLES IN EACH (1 POS, 1 VERIFONE, 1-EXTRA)
- CONTRACTOR TO PROVIDE (1) J-BOX IN P.O.S. CABINET W/ (1) CAT-5 CABLE, TERMINATED FOR VOICE.
- CONTRACTOR TO PROVIDE (1) DUPLEX RECEPTACLE IN P.O.S. CABINET FOR PHONE BASE, ETC.

## LINE PRINTER:

- CONTRACTOR TO PROVIDE (1) DEDICATED, ISOLATED GROUND RECEPTACLE AND (1) J-BOX W/ ONE TERMINATED CAT-5 CABLE AT LINE PRINTER.

## BUMP SECTION:

- CONTRACTOR TO PROVIDE (1) DEDICATED, ISOLATED GROUND RECEPTACLE AND (1) J-BOX W/ (1) TERMINATED CAT-5 CABLE AT END OF LINE FOR BUMP SCREEN.



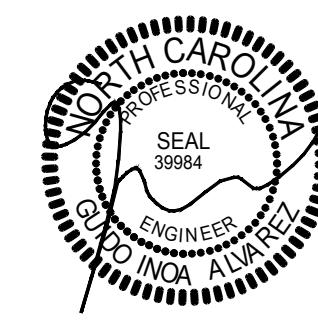
# ELECTRICAL POWER PLAN

---

1/4" = 1'-0"

The logo for Firehouse Subs is displayed on a white background. It features the word "FIREHOUSE" in a large, bold, black sans-serif font, with a registered trademark symbol (TM) in the top right corner. To the right of "FIREHOUSE" is a black trapezoid containing the word "SUBS" in white, with a white circle at the bottom right corner of the trapezoid.

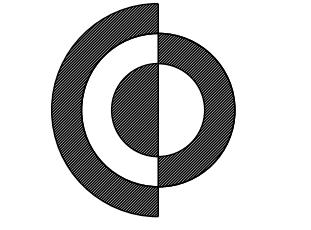
65 SADLER ROAD  
DUNN,  
NORTH CAROLINA



SCALE:

**SHEET TITLE:  
ELECTRICAL  
POWER PLAN**

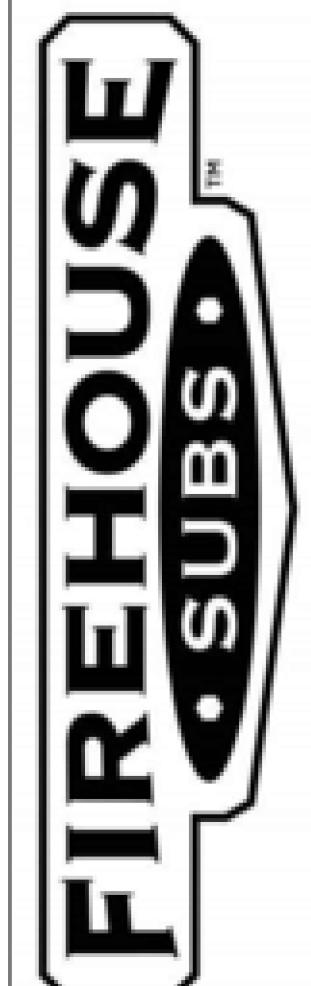
SHEET NUMBER:  
**E1.0**



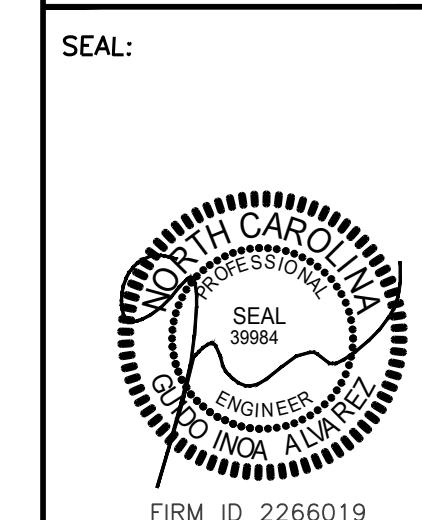
Converge  
Engineering  
54 South Ave. SE  
Marietta, GA 30060  
404-800-7988  
info@convergeengineers.com

PLAN DATES

REV.	SUBMISSION
	10/01/2025
	PROGRESS SUBMISSION
	10/10/2025
	BID & PERMIT SUBMISSION



65 SADLER ROAD  
DUNN,  
NORTH CAROLINA



SCALE:

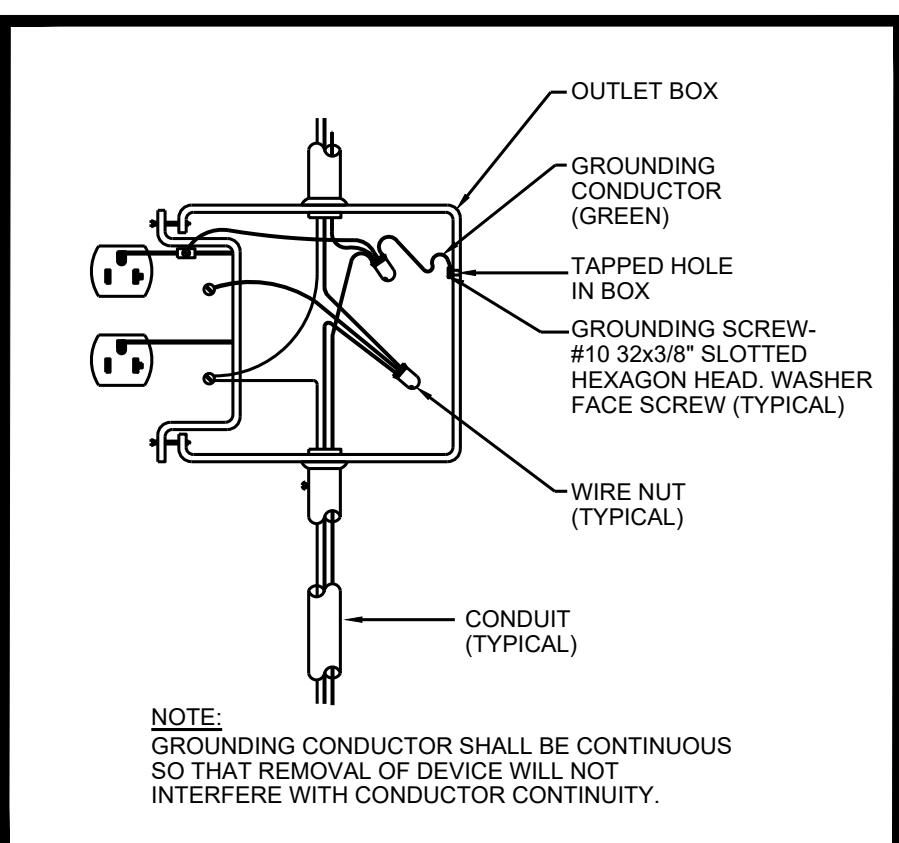
UNO.  
PROJECT NO.  
FSDN\_2509

Sheet Title:  
EQUIPMENT  
SCHEDULE AND  
DETAILS

Sheet Number:

E1.1

OF



GROUNDING RECEPTACLE DETAIL  
N.T.S

#	DESCRIPTION	QTY	MANUFACTURER	MODEL NUMBER	REMARKS	BY OWNER BY PURVYOR FABRICATED KEC BY G.C.
100	POS COUNTER	1	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.	x
101	LAMINATED COUNTER TOP	1 LOT	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.; G.C. TO PROVIDE FIELD DIMENSIONS	x
102	36" DOUBLE ACTION SWING GATE	1	ELLASOON	CAFE SWING GATE; COLOR: RED	INSTALL BY G.C.	x
103	RAPID RESCUE TO GO SHELF	1	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.	x
104	PICKLE BUCKET DISPLAY	1	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.	x
105	TRASH RECEPTACLE & BIN FRAME	1	MILLWORK CONTRACTOR	CUSTOM	INSTALL BY G.C.	x
107	CHIP STAND	2	FRITO LAY	TBD	INSTALL BY G.C.	x
108	MENU BOARD	1	B&J PEERLESS	CUSTOM		x
109	LTO BOARD	4	B&J PEERLESS	CUSTOM		x
111	SELF-SERVE ORDER KIOSK	0	TOAST	#		x
112	HOT SUACE RACK	1	B&J PEERLESS	CUSTOM		x
202	SAFE	1	BY OWNER	TBD	115V FOR LIGHTS AND DOOR HEATER, 15 AMP BREAKER	x
205	STEAMER WATER FILTRATION SYSTEM (VZN)	1	ANTUNES	VZN-541HC		x
206	ICE MACHINE	1	HOSHIZAKI	1440-KM520MAJ		x
208	ICE MACHINE FILTER	1	ECOLAB	9320-3887	EC550 PLUMBER TO MOUNT FILTER TO WALL	x
210	Slicer	1	BIZERBA	GSP-HGI		x
211	Slicer Table	1	BIZERBA	Slicer-Table-1		x
213	SLIM JIM TRASH RECEPTACLE	6	CARLISLE	CARL3402303		x
215C48	24x48 SHELVING UNIT	2	SKIBEE	SKIBSWHGR2448CWP	5 TIERS, 74" POSTS	x
215E48	18x48 SHELVING UNIT W/ MTG BRACKETS	2	SKIBEE		5 TIERS, 74" POSTS	x
217	FREESTYLE SYRUP RACK & PUMP	1	COCA-COLA	45897		x
218	CO2 TANK	1	HELGET	CARBO MIXER 550	EXTERIOR PLACEMENT	x
222	BOOSTER PUMP	1	LITTLE GIANT	25LG1100N41	REFER TO PLUMBING DRAWINGS	x
222A	TANKLESS INSTANT HOT WATER HEATER	1	TBD	TBD	REFER TO PLUMBING DRAWINGS T&S FAUCET INCLUDED	x
236	HAND SINK	1	SKIBEE	SKH5175S	T-49-HC	x
237A	REFRIGERATOR, TWO DOOR	2	TRUE	T-49-HC		x
238	BOTTLES TO GO COOLER	1	COCA-COLA	TBD		x
239	WORK TABLE, 30"x60"	2	SKIBEE	SKIBSWH3060ESCC		x
242	STEAMER TABLE	1	ANTUNES	7000-2222		x
243	COUNTERTOP DRAWER STEAMER	2	ANTUNES	IS-1000		x
244	STEAM WATER SOFTENER SYSTEM	1	ANTUNES	WSS-0618-ENC		x
245	COUNTERTOP CONVECTION OVEN	1	CACO	OV-003		x
246	MICROWAVE	1	AMANA	RCS100SE		x
247	72" REFRIGERATED PREP TABLE (ATC)	1	TRUE	TSSU7230MB-HC		x
249	FREEZER, WORK TOP - 48"	1	TRUE	TWF-48F		x
250	COUNTERTOP WARMER	2	NEMCO	NEMC6055A		x
251	CUP DISPENSER	6	SAN JAMAR	C241DC		x
253	POS & KDS ORDER SYSTEM	1 LOT	BY OWNER	-		x
254	WORK TABLE 36"x84"	1	EAGLE	T3684B		x
255	COUNTERTOP CONVECTION TOASTER	1	LINCOLN	2051		x
256	COUNTERTOP VENTLESS FRYER	1	PERFECT FRY	PFA-730	50 AMP BREAKER	x
257A	COUNTERTOP SODA MACHINE	1	LANCER	SENSATION-30		x
257B	ICE MACHINE STACKING KIT	1	COCA-COLA	DF150		x
258	METAL CONDIMENT COUNTER	1	MILLWORK CONTRACTOR	CUSTOM	STAINLESS COUNTERTOP; INSTALLED BY G.C.	x
259	TEA BREWER	1	BUNN	52000-03000		x
260	TEA DISPENSER	2	BUNN	SELF SERV 9100		x
261	CONDIMENT CONTAINER	1	SAN JAMAR	B4093		x
262	CONDIMENT RITE	1	DISPENSER RITE	VSCH-68T		x
263	FOUNDATION DONATION CUP	1		-		x

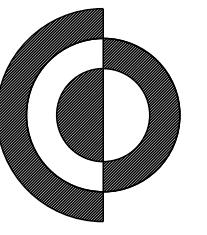
#	DESCRIPTION	QTY	MANUFACTURER	MODEL NUMBER	REMARKS	BY OWNER BY PURVYOR FABRICATED KEC BY G.C.
E201	S/S WORK TABLE - EXISTING TO REMAIN	1	ETR	ETR	ETR	
E202	CONVEYOR TOASTER - EXISTING TO	1	ETR	ETR	ETR	
E203	REFRIGERATED WORK TABLE - EXISTING TO REMAIN	1	ETR	ETR	ETR	
E204	METRO SHELVING - EXISTING TO REMAIN	8	ETR	ETR	ETR	
E205	DUNAGAGE RACK - EXISTING TO REMAIN	1	ETR	ETR	ETR	
E206	MANUFACTURER: V. SONG EXISTING TO REMAIN	1	ETR	ETR	ETR	
E207	MANUFACTURER: V. SONG SPLASHGUARDS - EXISTING TO REMAIN	1	ETR	ETR	ETR	
E208	METRO WALL SHELF	2	ETR	ETR	ETR	
E219	MOP SINK - EXISTING TO REMAIN	1	ETR	ETR	ETR	
E219A	MOP RACK - EXISTING TO REMAIN	1	ETR	ETR	ETR	
E220	MOP SINK FAUCET - EXISTING TO REMAIN	1	ETR	ETR	ETR	
E223	WALK-IN COOLER	1	ETR	ETR	ETR	
E223A	COOLER REFRIGERATION	1	ETR	ETR	ETR	
E223B	WALK-IN FREEZER	1	ETR	ETR		
E223C	FREEZER REFRIGERATION	1	ETR	ETR	ETR	

Sheet Title:  
EQUIPMENT  
SCHEDULE AND  
DETAILS

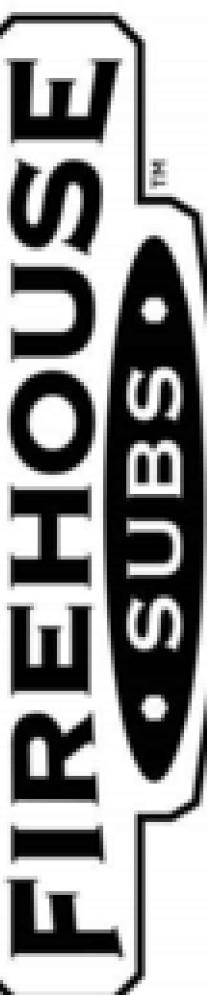
Sheet Number:

E1.1

OF



Converge  
Engineering  
54 South Ave. SE  
Marietta, GA 30060  
404-800-7988  
info@convergeengineers.com



65 SADLER ROAD  
DUNN,  
NORTH CAROLINA

SEAL:



SCALE:

u.s.  
PROJECT NO.  
FSDN\_2509

SHEET TITLE:  
ELECTRICAL  
LIGHTING PLAN

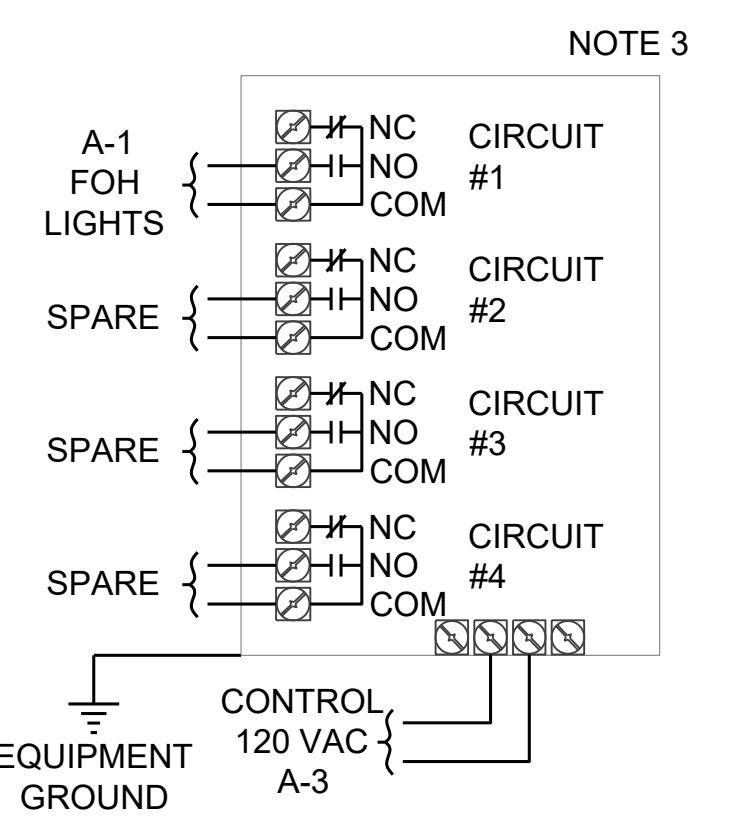
SHEET NUMBER:

E2.0

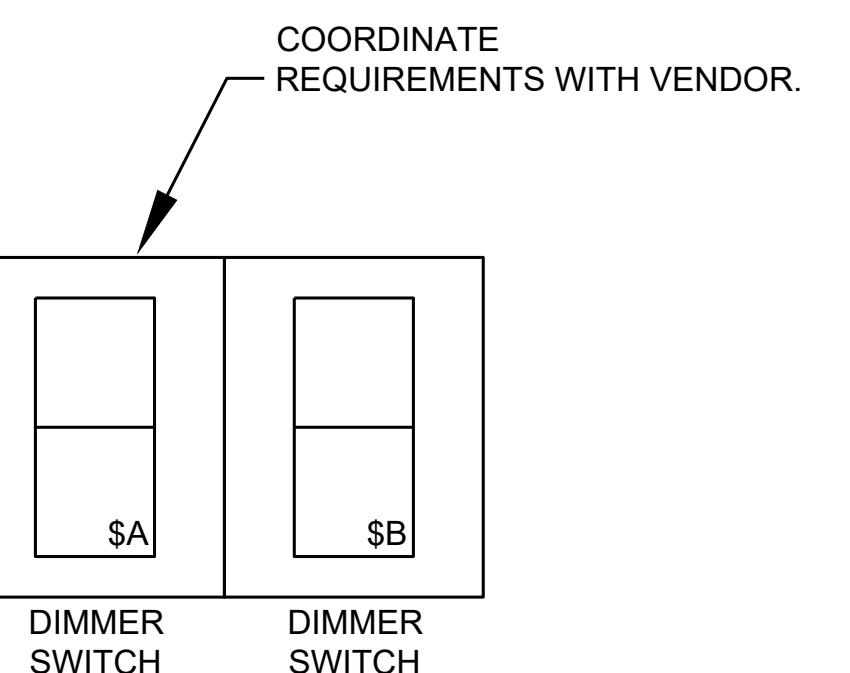
OF

## LIGHTING NOTES:

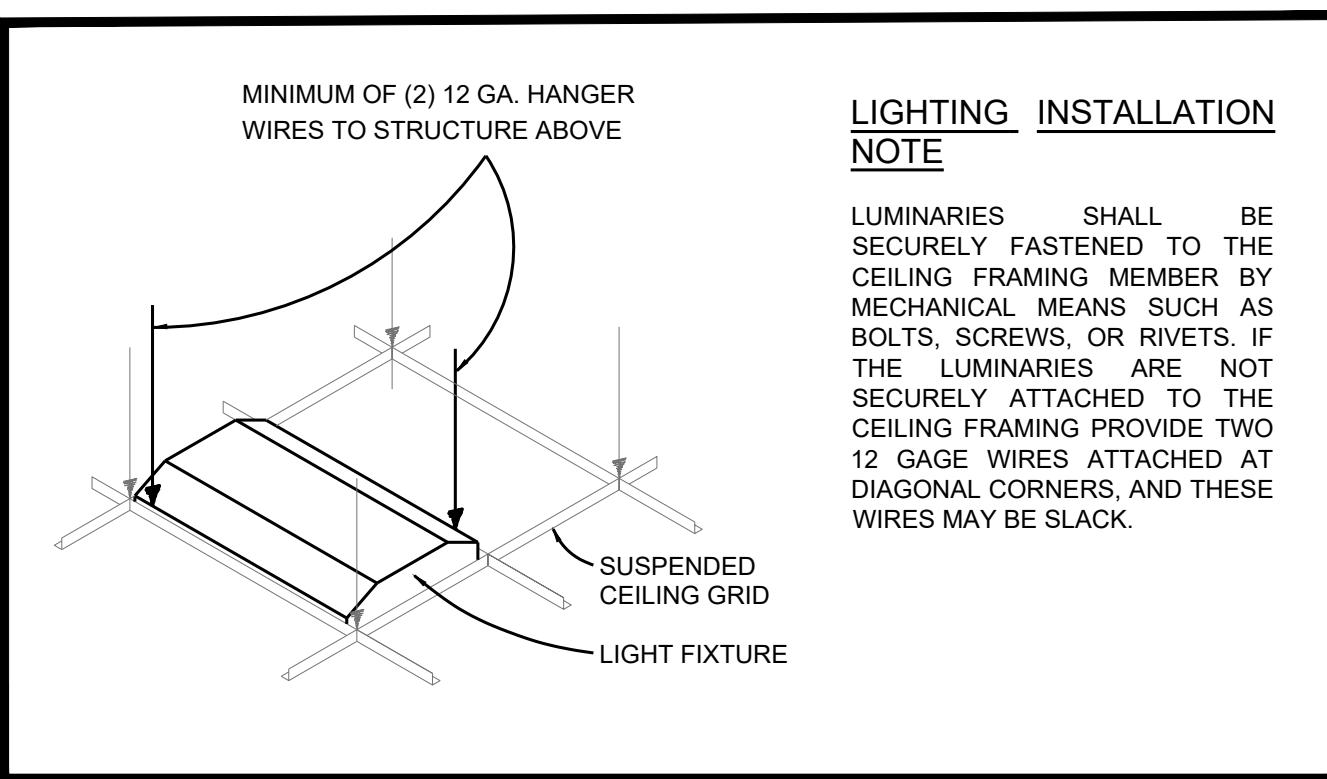
1. PROVIDE NON-CONTACTORED, NON-SWITCHED HOT CONDUCTOR OF SAME CIRCUIT TO EACH EMERGENCY LIGHTING FIXTURE, EXIT SIGN AND NIGHT LIGHT.
2. PROVIDE DISCONNECT SWITCH UP HIGH AT SIGN FOR SIGNAGE CIRCUITS AS REQUIRED BY NEC 600. SIGNS SHALL BE RUN THROUGH A PHOTOCELL. SEE DETAIL. COORDINATE REQUIREMENTS AND MOUNTING LOCATION WITH OWNER AND LANDLORD. (NOT USED)
3. PROVIDE NEW TIME CLOCK. COORDINATE WITH OWNER PRIOR TO INSTALLATION.
4. PROVIDE SWITCHBANK FOR LIGHTING. PROVIDE DIMMERS FOR DINING FIXTURES, TOGGLES FOR NOT DIMMER FIXTURES, AND A MOTOR RATED SWITCH FOR THE FANS. GC TO PROVIDE KEY BOX FOR SWITCHBANK. COORDINATE FINAL LOCATION WITH OWNER PRIOR INSTALLATION.
5. TO SWITCHBANK. SEE DETAIL IN THIS SHEET.
6. FIXTURE PROVIDED WITH WALK-IN COOLER/FREEZER. CONTRACTOR TO PROVIDE POWER TO COOLER AS SPECIFIED IN KITCHEN EQUIPMENT SCHEDULE (WHEN APPLICABLE).
7. CONNECT EMERGENCY LIGHTING TO EXISTING LIGHTING CIRCUIT FEEDING AREA WHEN APPLICABLE.
8. ALL LIGHTING IS EXISTING TO REMAIN.
9. LIGHTING FIXTURES IN THIS AREA ARE TO BE RE-USED AND FITTED WITH LED LAMPS AND BALLASTS. GC TO COORDINATE WITH OWNER AND LIGHTING VENDOR PRIOR TO BIDDING. GC TO ENSURE FIXTURES ARE IN CLEAN WORKING CONDITION PRIOR TO BIDDING.
10. PROVIDE EMERGENCY LIGHTING IN EXISTING AREAS IN COMPLIANCE WITH CODE WHERE REQUIRED.



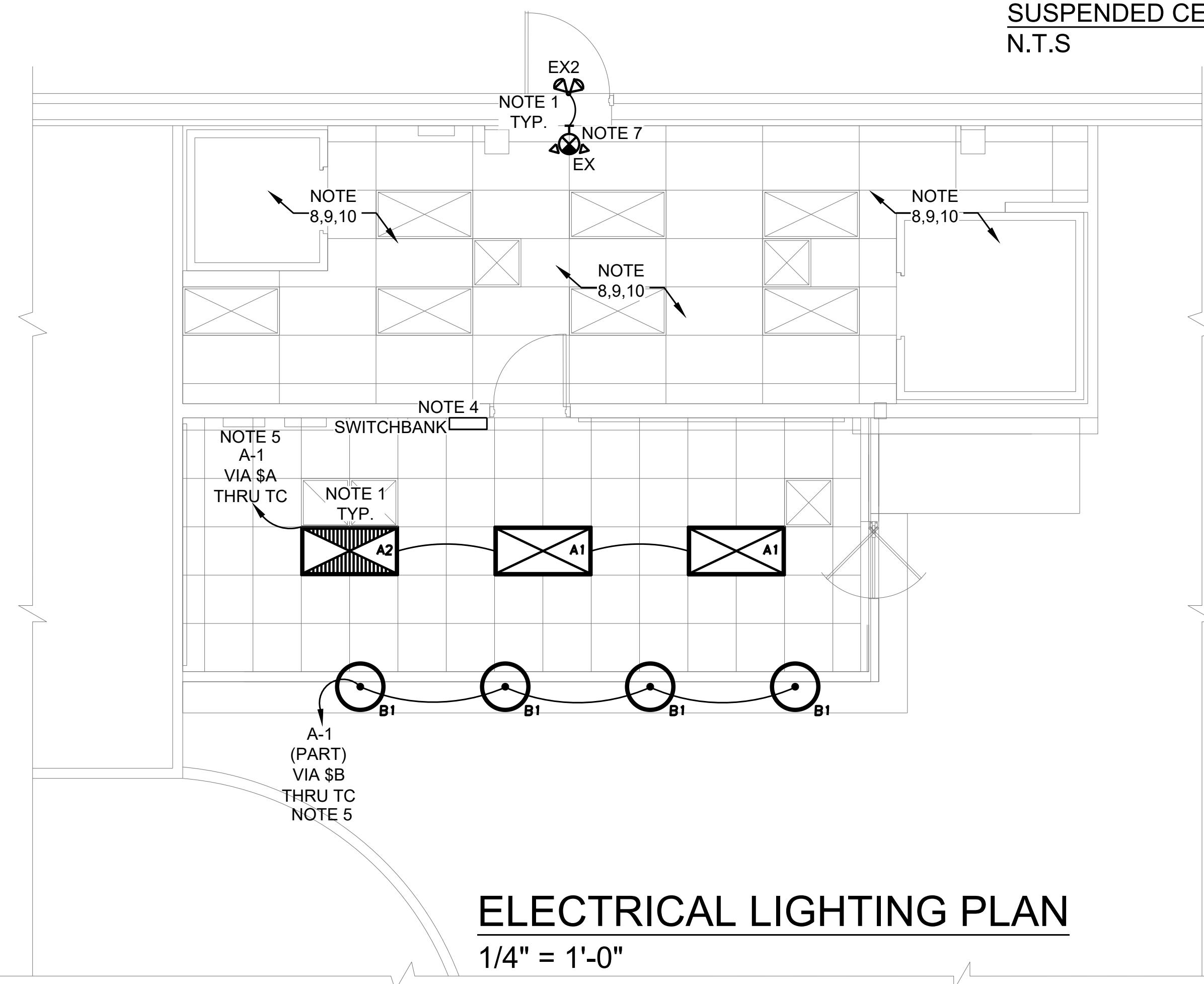
## TIME CLOCK DETAIL N.T.S



## SWITCHBANK DETAIL N.T.S



## SUSPENDED CEILING LIGHTING SUPPORT DETAILS N.T.S



## ELECTRICAL LIGHTING PLAN

1/4" = 1'-0"

LIGHTING SCHEDULE				
MARK	SYMBOLS	MFR	MFR PART #	DESCRIPTION
A1		ABL-LITHONIA LIGHTING	EPANL 24 40L 40K	LITHONIA 4350 LUMENS 2X4 FLAT PANEL LED 40K
A2		ABL-LITHONIA LIGHTING	EPANL 24 40L 40K E10WCP	LITHONIA 4350 LUMENS 2X4 FLAT PANEL LED 40K NITE LIGHT
B1		SATCO / NUVO	SF76-663	RED PENDANT LIGHT LED
D1		LITHONIA LIGHTING	LDN6-35-15-L06-AR-LSS-MVOLT DRIVER-GZ10	RECESSED DOWN LIGHT FINISH CLEAR
C1		JUNO	R4BL/48BL	BLACK 4FT/8FT ALPHA TRACK SECTION JUNO
C2				
C2A				
EX		PROGRESS LIGHTING	PECUE-UR-30RC	90 MINUTE BATT. BACKUP POWER
EM		PROGRESS LIGHTING	PE2EU-30	90 MINUTE BATT. BACKUP POWER
EX2		PROGRESS LIGHTING	PERHC-DB-OD-30	90 MINUTE BATT. BACKUP POWER

**COMcheck Software Version COMcheckWeb**  
**Interior Lighting Compliance Certificate**

**Project Information**

Energy Code: 2015 IECC  
Project Title: Firehouse Subs  
Project Type: New Construction

Construction Site: 65 Sadler Road Dunn, North Carolina  
Owner/Agent: Designer/Contractor: Nahomy Ramirez Converge Engineering

**Additional Efficiency Package(s)**  
Credits: 1.0 Required 1.0 Proposed  
Reduced Lighting Power, 1.0 credit

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts
1-Dining: Cafeteria/Fast Food	845	0.81	684
			Total Allowed Watts = 684

**Proposed Interior Lighting Power**

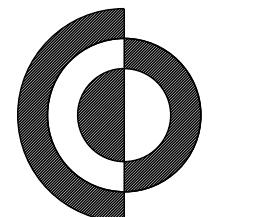
A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C x D)
1-Dining: Cafeteria/Fast Food LED-A1A2: Other: LED-B1: Other:	1	10	42 420
	1	4	12 48
			Total Proposed Watts = 468

**Interior Lighting PASSES: Design 32% 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 minimum requirements of the 2015 International Energy Conservation Code (IECC) and to comply with any applicable mandatory requirements listed in the inspection checklist.

NAHOMY RAMIREZ *Nahomy R.* 10/10/2025  
Name - Title Signature Date

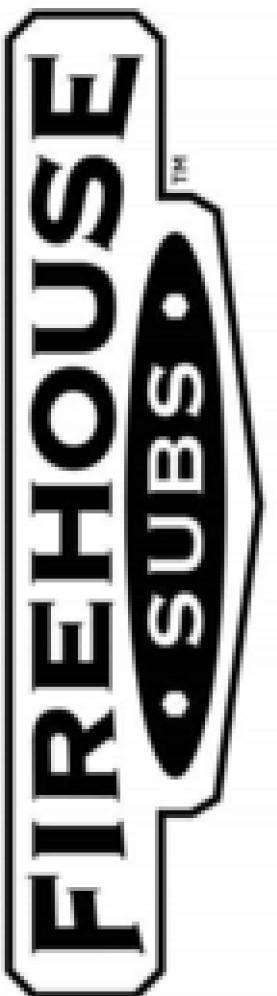
Project Title: Firehouse Subs  
Data filename:  Report date: 10/10/25  
 Page: 1 of 4



**Converge**  
Engineering  
54 South Ave. SE  
Marietta, GA 30060  
404-800-7988  
info@convergeengineers.com

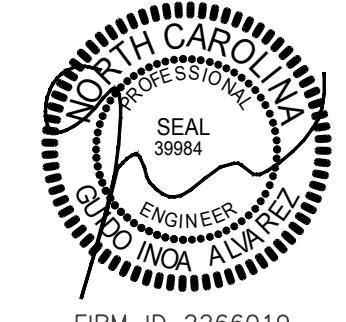
**PLAN DATES**

REV.	SUBMISSION
	10/01/2025
	PROGRESS SUBMISSION
	10/10/2025
	BID & PERMIT SUBMISSION



65 SADLER ROAD  
DUNN,  
NORTH CAROLINA

SEAL:



SCALE:

PROJECT NO.  
**FSDN\_2509**

MECHANICAL  
POWER PLAN

SHEET NUMBER:

**E3.0**

OF

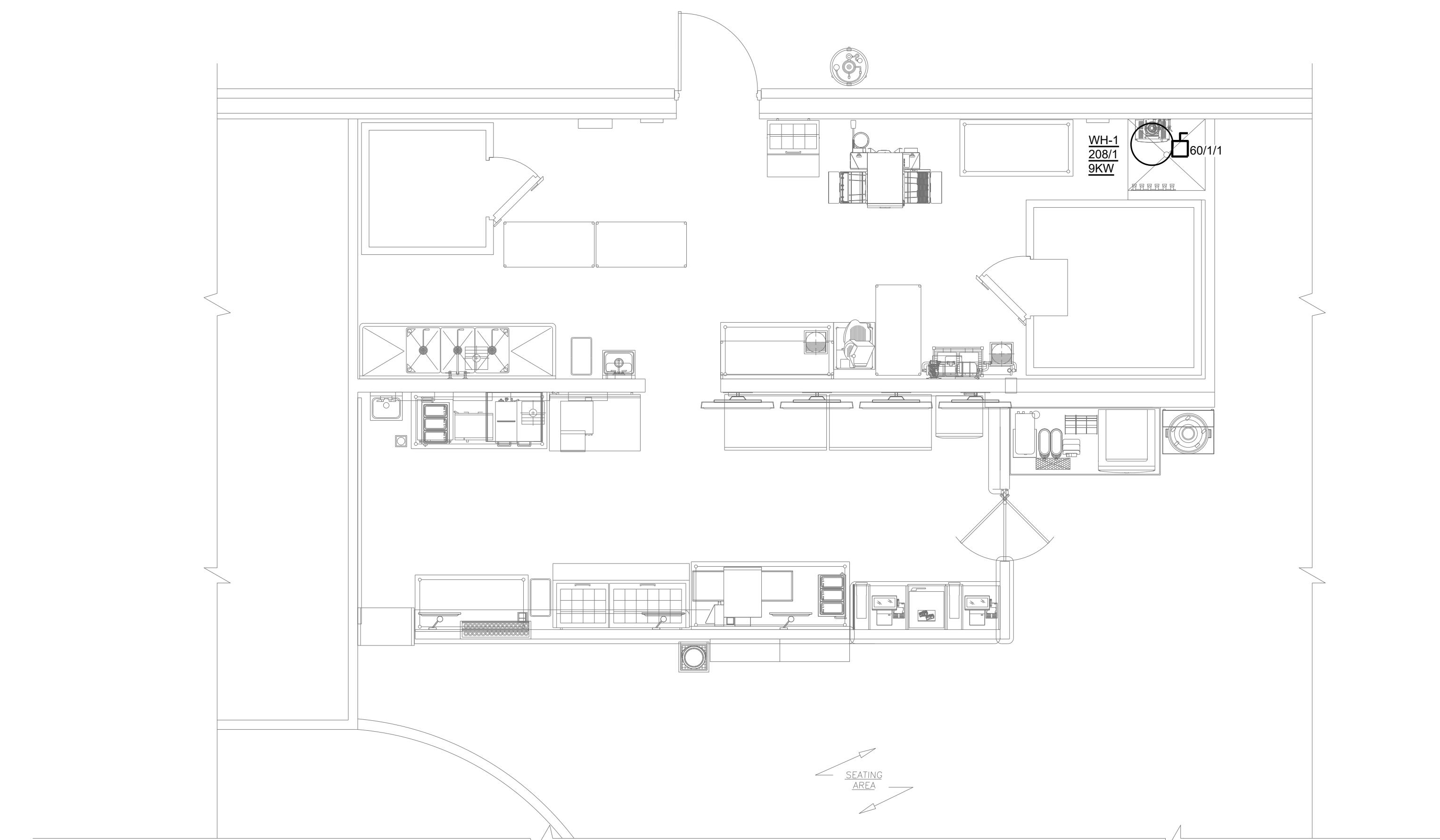
**MECHANICAL NOTES:**

1. COORDINATE WITH MECHANICAL CONTRACTOR ON ALL MECHANICAL EQUIPMENT PURCHASED PRIOR TO INSTALLATION OF ELECTRICAL DISTRIBUTION. IF EQUIPMENT PURCHASED DIFFERS FROM WHAT IS SHOWN ON THESE PLANS, PROVIDE MANUFACTURER RECOMMENDED FEEDER, CONDUIT, DISCONNECT, AND OVERCURRENT PROTECTION.

MECHANICAL EQUIPMENT SCHEDULE													
EQUIPMENT NAME	VOLTAGE	PHASE	HP	KW	KW / POLE	FLA	MCA	MOCP	BREAKER AMPACITY	PANEL	FEEDER	DISCONNECT (NOTE 1)	CONTROL
WH-1	208	1		4.50		60	60		A-11,13	2 # 4 ,1# 10 G- 1 "C.	60	2	NF NEMA 3R BY DIVISION 26

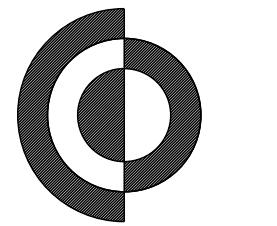
NOTES:

1. DISCONNECT SWITCH IS NOT REQUIRED IF UNIT IS PROVIDED WITH DISCONNECT OR IF UNIT HAS CORD/PLUG AND RECEPTACLE.



**MECHANICAL POWER PLAN**

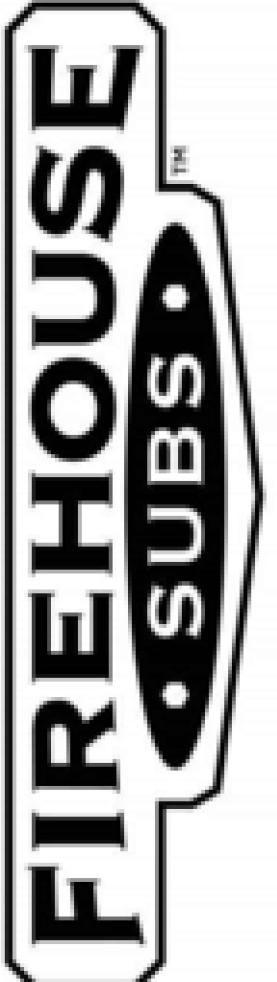
1/4" = 1'-0"



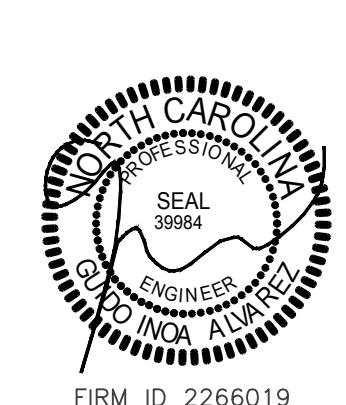
Converge  
Engineering  
54 South Ave. SE  
Marietta, GA 30060  
404-800-7988  
info@convergeengineering.com

PLAN DATES

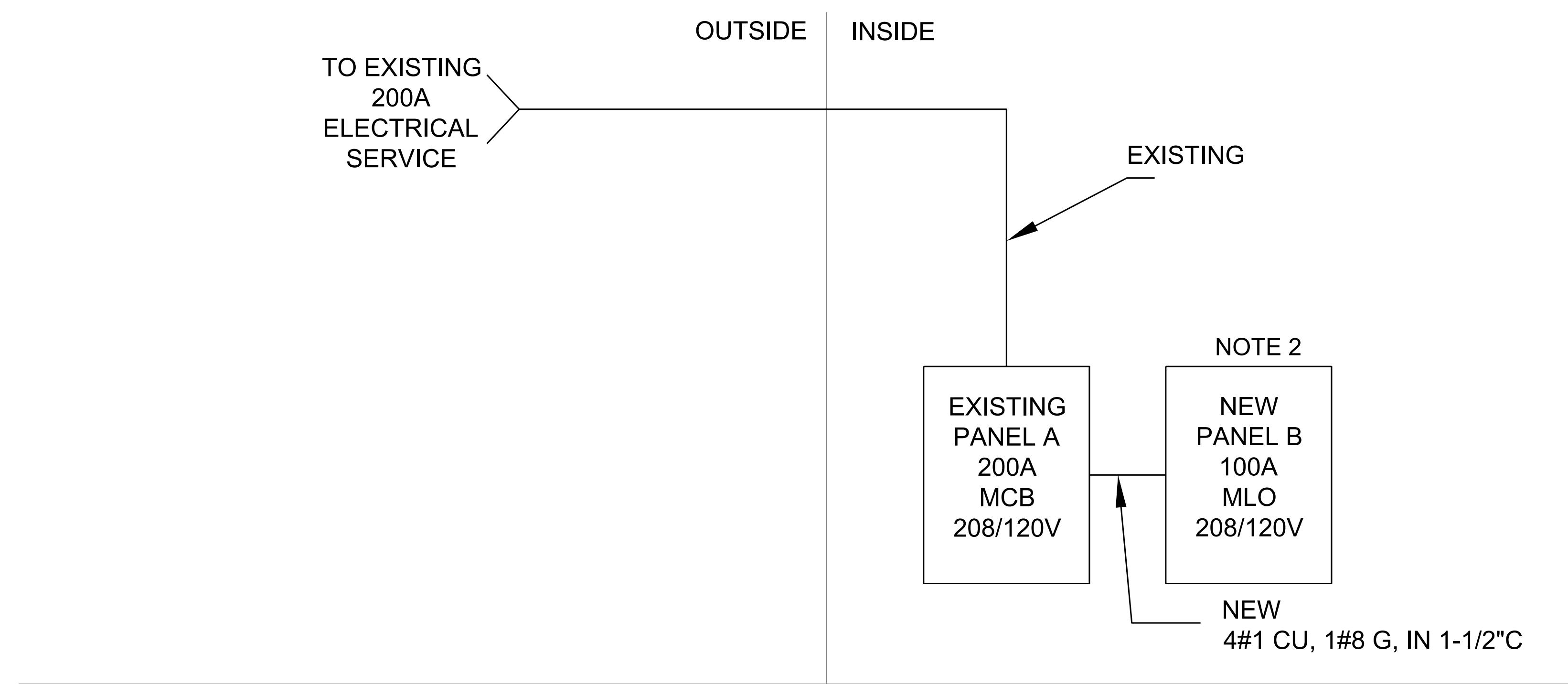
REV.	SUBMISSION
	10/01/2025
	PROGRESS SUBMISSION
	10/10/2025
	BID & PERMIT SUBMISSION



65 SADLER ROAD  
DUNN,  
NORTH CAROLINA



FIRM ID: 2266019



RISER DIAGRAM NOTES:

1. ALL EQUIPMENT AND OTHER ELECTRICAL MATERIALS/WORK SHOWN AS EXISTING IN THE RISER DIAGRAM SHALL BE VERIFIED BY CONTRACTOR TO BE EXISTING. WHERE THE METER, DISCONNECT, FEEDER OR OTHER COMPONENTS OF THE TENANT FEEDER DO NOT EXIST AS SHOWN, THE CONTRACTOR SHALL PROVIDE.

2. PROVIDE NEW PANEL "B" AS SUB-PANEL FEED FROM PANEL "A".

GENERAL NOTES:

1. PROVIDE PULL STRINGS IN ALL EMPTY CONDUITS.
2. ALL JUNCTION BOXES, CONDUITS, AND WIRES SHALL BE SIZED PER NEC.
3. PROVIDE A CONSTANT HOT FROM PANEL BOARD DIRECTLY TO ALL EMERGENCY BATTERY PACKS/BALLASTS IN ALL EMERGENCY LIGHTING FIXTURES.
4. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES SHOWN ON THIS DRAWING.
5. REFER TO DETAIL SHEET FOR SYMBOLS, SPECIFICATIONS AND ABBREVIATIONS.
6. ALL DEVICES AND EQUIPMENT OUTSIDE THE SCOPE OF WORK ARE EXISTING TO REMAIN U.O.N.
7. ELECTRICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY PROBLEMS PERTAINING TO CIRCUIT AVAILABILITY, EXISTING CONDITIONS OR LOAD CAPACITY PRIOR TO COMMENCEMENT OF WORK.

RISER DIAGRAM  
N.T.S.

LOAD SUMMARY				
VOLTAGE: 208 Y/120V				
CIRCUIT DESCRIPTION	PANEL A	PANEL B	CONNECTED	DEMAND
LIGHTING	0.7	0.0	0.67	0.84
RECEPTACLE	1.2	0.8	2.00	2.00
MOTOR	0.0	1.0	1.00	2.40
HEATING	0.0	0.0	0.00	0.00
COOLING	0.0	0.0	0.00	0.00
KITCHEN	55.7	15.2	70.90	46.09
MISC	12.7	0.0	12.70	12.70
NEW TOTAL DIVERSIFIED KVA	64			
NEW TOTAL DIVERSIFIED AMPS	178			

PANEL NAME	LOCATION:	VOLTAGE: 208 Y/120V 3 PHASE	MOUNTING/ENCLOSURE: EXISTING / NEMA 1				
			EXISTING				
A	BOH	200A MCB					
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B
20	1	L	FOH LIGHTS	0.47	1	5.94	
20	1	L	TIME CLOCK	0.20	3	6.09	
20***	1	K	FOOD WARMER (250)	1.20	5	6.87	
50***	2	K	VENTLESS FRYER (256)	3.65	7	5.57	
60*	2		WH-1	4.50	11	4.80	
20	1	R	GENERAL RECEPT. (KITCHEN)	0.00	15	4.50	
20	1	R	SPIRE	0.00	17	3.40	
20	1	R	SPIRE	0.00	19	0.60	
20	1	R	PANEL RECEPT.	0.30	21	0.90	
20***	1	K	REFRIG. WORK TABLE (EXISTING)	0.86	23	1.86	
20	1	R	CONVENIENCE RECEPT. (KITCHEN)	0.50	25	4.70	
20	1	R	POS (253)	0.60	27	4.80	
20	1	R	POS (253)	0.60	29	4.80	
20	1	R	DIGITAL MENU BOARD	0.60	31	4.80	
20***	1	K	COOLER CONDENSER (EXISTING)	1.92	33	3.84	
20	1	K	SPIRE	0.00	35	2.50	
20***	1	K	COOLER LIGHTS (EXISTING)	1.92	37	4.42	
20***	1	K	COOLER FAN (EXISTING)	1.92	39	6.08	
20	1	R	SPIRE	0.00	41	4.16	
TOTAL				30.5	28.8	28.0	KVA
TOTAL CONNECTED LOAD				87 KVA 242 A			
TOTAL DEMAND LOAD				68 KVA 189 A			

\*\*\*PROVIDE GFCI BREAKER

\*\* PROVIDE LOCK ON BREAKERS IN THE OPEN POSITION

\*PROVIDE HACR TYPE CIRCUIT BREAKER

L	LIGHTING	0.7	0.8
R	RECEPTACLE	1.2	1.2
M	MOTOR	0.0	2.4
H	HEATING	0.0	0.0
AC	A/C	0.0	0.0
K	KITCHEN	55.7	65%
	MISCELLANEOUS	12.7	12.7
T	TRANSFORMED FROM SUB PANEL	17.0	17.0

FILL IN KVA OF LARGEST MOTOR

AND DIVERSITY FACTOR FOR KITCHEN

PANEL NAME	LOCATION:	VOLTAGE: 208 Y/120V 3 PHASE	MOUNTING/ENCLOSURE: RECESSED / NEMA 1				
			NEW				
B	BOH	100A MLO					
AMPS	POLES	TYPE	CIRCUIT DESCRIPTION	KVA	CKT	A	B
20***	1	K	FOOD WARMER (250)	1.20	1	1.82	
20***	1	K	CONVECTION OVEN (245)	1.45	3		
20***	1	K	REFRIGERATOR TWO DOOR (237A)	0.62			
20***	1	K	SLICER (210)	1.20	7	1.75	
20***	1	K	72" REFRIG. PREP (247)	0.86	9		
20***	1	K	SODA MACHINE (257)	1.20	11		
20***	1	K	BOTTLES TO GO COOLER (238)	1.20	13	1.30	
20	2	M	BOOSTER PUMP (222)	0.50	15	0.60	
20***	1	K	STEAM WATER SYSTEM (244)	0.60	19	0.60	
20	1	R	SPIRE	0.00	21		
20	1	R	SPIRE	0.00	23		
20	1	R	SPIRE	0.00	25		
20	1	R	SPACE	0.00	27		
20	1	R	SPACE	0.00	29		
TOTAL				5.5	5.9	5.7	KVA
TOTAL CONNECTED LOAD				17 KVA 47 A			
TOTAL DEMAND LOAD				12 KVA 34 A			

L	LIGHTING	0.0	0.0
R	RECEPTACLE	0.8	0.8
M	MOTOR	1.0	2.4
H	HEATING	0.0	0.0
AC	A/C	0.0	0.0
K	KITCHEN	15.2	65% 9.9
	MISCELLANEOUS	0.0	0.0
T	TRANSFORMED FROM SUB PANEL	0.0	0.0

FILL IN KVA OF LARGEST MOTOR  
AND DIVERSITY FACTOR FOR KITCHEN

SCALE:

PROJECT NO.

FSDN\_2509

SHEET TITLE:

ELECTRICAL  
RISER AND  
PANELS

SHEET NUMBER:

E4.0

OF

<p><b>I. GENERAL PROVISIONS</b></p> <p><b>A. OVERVIEW</b></p> <ol style="list-style-type: none"> <li>ALL WORK DONE UNDER THIS CONTRACT SHALL COMPLY WITH ALL STATE AND LOCAL CODES HAVING JURISDICTION AND WITH THE REQUIREMENTS OF THE UTILITY COMPANIES WHOSE SERVICES MAY BE USED. ALL MODIFICATIONS REQUIRED BY THESE CODES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGES, WHERE CODE REQUIREMENTS ARE LESS THAN THOSE SHOWN ON THE PLANS OR IN THE SPECIFICATIONS. THE PLANS AND SPECIFICATIONS SHALL BE FOLLOWED. WHERE APPLICABLE, NFPA REQUIREMENTS SHALL BE MET.</li> <li>IN CASE OF ANY CONFLICTS BETWEEN CONTRACT DOCUMENTS, THE STRICTER/MORE STRINGENT SHALL GOVERN.</li> <li>THE CONTRACTOR SHALL OBTAIN ALL PERMITS, INSPECTIONS, AND APPROVALS AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION AND DELIVER CERTIFICATES OF APPROVAL TO THE ENGINEER. ALL FEES AND COSTS OF ANY NATURE WHATSOEVER INCIDENTAL TO THESE PERMITS, INSPECTIONS AND APPROVALS MUST BE ASSUMED AND PAID BY THE CONTRACTOR.</li> <li>THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF O.S.H.A.</li> <li>THE WORKMANSHIP AND MATERIALS COVERED BY THESE SPECIFICATIONS SHALL CONFORM TO ALL ORDINANCES AND REGULATIONS OF THE CITY, COUNTY AND/OR OTHER AUTHORITIES HAVING JURISDICTION.</li> <li>CONTRACTOR SHALL VISIT THE SITE AND EXAMINE EXISTING CONDITIONS BEFORE SUBMITTING BID. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS WHEN SUCH CONDITIONS CAN BE DETERMINED BY OBSERVATION.</li> <li>PRIOR TO SUBMITTING DATA FOR OR PURCHASING EQUIPMENT REQUIRING ELECTRICAL SERVICE, THE CONTRACTOR SHALL VERIFY THAT ELECTRICAL CHARACTERISTICS OF EQUIPMENT SUBMITTALS COMPLY WITH ELECTRICAL SERVICE PROVIDED FOR THE SPECIFIED ITEMS OF EQUIPMENT.</li> <li>UPON RECEIPT OF THE CONTRACTOR OF REVIEWED SUBMITTALS FOR EQUIPMENT PROVIDED UNDER THIS DIVISION, THE CONTRACTOR SHALL COORDINATE THE ELECTRICAL SERVICE REQUIREMENTS, I.E., MOTOR HORSEPOWER AND FULL LOAD AMPS, ELECTRICAL SERVICE CHARACTERISTICS (VOLTAGE AND PHASE), AND NUMBER OF SERVICES FOR EACH ITEM OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS WITH THE ELECTRICAL DRAWINGS AND SPECIFICATIONS.</li> <li>ITEMS ON OR PROJECTING THROUGH THE CEILING SHALL BE COORDINATED WITH OTHER TRADES.</li> </ol> <p><b>B. OPERATION AND MAINTENANCE INSTRUCTIONS</b></p> <ol style="list-style-type: none"> <li>THE CONTRACTOR SHALL PROVIDE TWO OPERATION AND MAINTENANCE MANUALS. THE MANUALS SHALL BE COMPILED IN HARD BACK, THREE RING NOTEBOOKS. OEM MANUALS SHALL HAVE PERMANENT LABELS ON FRONT AND SIDE. THE FOLLOWING INFORMATION SHALL APPEAR IN EACH MANUAL:</li> <li>PROVIDE MANUFACTURER'S PRINTED OPERATING PROCEDURES TO INCLUDE START-UP, BREAK-IN, ROUTINE AND NORMAL OPERATING INSTRUCTIONS; REGULATION, CONTROL, STOPPING, SHUTDOWN AND EMERGENCY INSTRUCTIONS; AND SUMMER AND WINTER OPERATING INSTRUCTIONS. PROVIDE MAINTENANCE PROCEDURES FOR ROUTINE PREVENTATIVE MAINTENANCE AND TROUBLESHOOTING; DISASSEMBLY, REPAIR AND REASSEMBLY; ALIGNING AND ADJUSTING INSTRUCTIONS. SERVICING INSTRUCTIONS AND LUBRICATION CHARTS AND SCHEDULES.</li> </ol> <p><b>C. INSTRUCTIONS OF OWNER PERSONNEL</b></p> <ol style="list-style-type: none"> <li>BEFORE FINAL INSPECTION, AT A TIME DESIGNATED BY THE DESIGNER, PROVIDE A COMPETENT REPRESENTATIVE TO INSTRUCT OWNER'S DESIGNATED PERSONNEL IN OPERATION, ADJUSTMENT, AND MAINTENANCE OF PRODUCTS, EQUIPMENT, AND SYSTEMS UNDER THIS DIVISION OF THE SPECIFICATIONS. FOR EQUIPMENT REQUIRING SEASONAL OPERATIONS, PERFORM INSTRUCTIONS FOR OTHER SEASONS WITHIN SIX MONTHS UNLESS REQUESTED OTHERWISE.</li> </ol> <p><b>D. COORDINATION</b></p> <ol style="list-style-type: none"> <li>THE PRODUCTS OF PARTICULAR MANUFACTURERS HAVE BEEN USED AS THE BASIS OF DESIGN IN PREPARATION OF THESE DOCUMENTS. ANY MODIFICATIONS TO THE MECHANICAL SYSTEMS AND THEIR COMPONENTS, THE ELECTRICAL SYSTEMS, THE BUILDING STRUCTURE AND ARCHITECTURE, OR ANY OTHER PORTION OF THE BUILDING THAT RESULT FROM THE USE OF ANY OTHER THAN THAT BASIS OF DESIGN EQUIPMENT SHALL BE COORDINATED WITH ALL OTHER TRADES. SUCH COORDINATION SHALL OCCUR BEFORE PURCHASE OR DELIVERY OF PRODUCTS FROM THE MANUFACTURER DRAWINGS OR INSTALLED ACCORDINGLY. ANY RELATED MODIFICATIONS SHALL BE PERFORMED WITHOUT ANY ADDITIONAL COST TO THE CONTRACT.</li> <li>RESIDENTIAL GRADE HVAC COMPONENTS SHALL NOT BE PERMITTED WITHOUT SPECIFIC OWNER INSTRUCTION AND ENGINEER APPROVAL.</li> </ol> <p><b>E. EXECUTION</b></p> <ol style="list-style-type: none"> <li>THE PLANS DO NOT GIVE EXACT ELEVATIONS OR LOCATIONS OF LINES, NOR DO THEY SHOW ALL THE OFFSETS, CONTROL LINES, OR OTHER INSTALLATION DETAILS. THE CONTRACTOR SHALL CAREFULLY LAY OUT THE PLANS AT THE SITE TO CONFORM TO THE SPECIFICATIONS. IN ORDER TO PROVIDE PROPER CLOTHING, AVOID ALL OBSTRUCTIONS TO CONFORM TO DETAILS OF INSTALLATION SPECIFIED BY THE MANUFACTURERS OF THE EQUIPMENT TO BE INSTALLED, AND TO THEREBY PROVIDE AN INTEGRATED, COORDINATED AND SATISFACTORY OPERATING INSTALLATION, DO NOT SCALE DRAWINGS.</li> <li>IF THE CONTRACTOR PROPOSES TO INSTALL EQUIPMENT, INCLUDING PIPING AND DUCTWORK, REQUIRING SPACE CONDITIONS OTHER THAN THOSE SHOWN, OR TO REARRANGE THE EQUIPMENT, HE SHALL ASSUME FULL RESPONSIBILITY FOR THE REARRANGEMENT OF THE SPACE AND CONNECT ARRANGEMENT AT NO ADDITIONAL COST TO THE OWNER, AND SHALL HAVE THE ENGINEER REVIEW THE CHANGE BEFORE PROCEEDING WITH THE WORK. THE REQUEST FOR SUCH CHANGES SHALL BE ACCOMPLISHED BY SHOP DRAWINGS OF THE SPACE IN QUESTION.</li> <li>TEMPORARY FILTERS SHALL BE PROVIDED FOR FANS THAT ARE USED DURING CONSTRUCTION. AT THE TIME OF STARTING THE BALANCING OF THE AIR DISTRIBUTION SYSTEM, NEW FILTERS SHALL BE INSTALLED.</li> <li>THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER LOCATION AND SIZE OF ALL SLOT, HOLES OR OPENINGS IN THE BUILDING STRUCTURE PERTAINING TO HIS WORK, AND FOR THE CORRECT LOCATION OF SLEEVES, INSERTS, CORES, ETC.</li> <li>THE CONTRACTOR SHALL COORDINATE THE WORK OF THE SEVERAL VARIOUS TRADES THAT IT MAY BE INSTALLED IN THE MOST DIRECT AND WORKMANLIKE MANNER WITHOUT ENDERING THE OTHER TRADES. PIPING INTERFERENCES SHALL BE HANDLED GIVING PREDENCE TO OTHER TRADES. IF NECESSARY, A STATED GRADE FOR PIPER OPERATION, FOR EXAMPLE, SEWER LINES AND CONDENSATE PIPING SHALL TAKE PREDENCE OVER WATER LINES IN DETERMINATION OF ELEVATIONS, WHERE THERE IS INTERFERENCE BETWEEN SEWER LINES AND CONDENSATE LINES, THE SEWER LINES SHALL HAVE PREDENCE AND PROVISIONS SHALL BE MADE IN THE CONDENSATE LINES FOR LOOPING THEM AROUND THE SEWER LINES. IN ALL CASES, LINES REQUIRING A STATED GRADE FOR THEIR PROPER OPERATION SHALL HAVE PREDENCE OVER ELECTRICAL CONDUIT AND DUCTWORK.</li> <li>ALL PIPING AND DUCTWORK IN FINISHED AREAS, EXCEPT WHERE NOTED TO THE CONTRARY, SHALL BE INSTALLED IN A CHASE, FURRED SPACE, OR ABOVE CEILINGS, ETC. IN ALL CASES, PIPES AND DUCTS SHALL BE INSTALLED AS HIGH AS POSSIBLE. RUNS OF PIPING SHALL BE GROUPED WHENEVER IT IS FEASIBLE TO DO SO.</li> <li>PIPEING SHALL BE INSTALLED TO PASS INSPECTION BY LOCAL PLUMBING INSPECTION DEPARTMENT, STATE AND FEDERAL AUTHORITIES AND INSURANCE COMPANY HAVING JURISDICTION. ANY CHANGES OR ADDITIONS WHICH MAY BE NECESSARY TO OBTAIN SUCH INSPECTIONS AND APPROVAL SHALL BE MADE BY THE CONTRACTOR AS PART OF THIS CONTRACT AND WITHOUT ADDITIONAL COST TO THE OWNER.</li> <li>PIPING, DUCTWORK OR EQUIPMENT SHALL NOT BE INSTALLED IN ELECTRICAL EQUIPMENT ROOMS OR ELEVATOR MACHINE ROOMS EXCEPT AS SERVING ONLY THOSE ROOMS, OUTSIDE OF ELECTRICAL EQUIPMENT ROOMS, DO NOT RUN PIPING OR DUCTWORK OR LOCATE EQUIPMENT, WITH RESPECT TO SWITCHBOARDS, PANEL BOARDS, POWER PANELS, MOTOR CONTROL CENTERS, DRY TYPE TRANSFORMERS OR ROOF TOP UNITS, INCLUDING UNITS ELECTRICAL EQUIPMENT.</li> <li>PROVIDE ACCESS TO EQUIPMENT AND APPARATUS REQUIRING OPERATION, SERVICE OR MAINTENANCE WITHIN THE LIFE OF THE SYSTEM, INCLUDING, BUT NOT LIMITED TO, MOTORS, VALVES, FILTERS, DAMPERS, SHOCK ABSORBERS, ETC. EQUIPMENT LOCATED ABOVE LAY-IN TYPE CEILINGS IS CONSIDERED ACCESSIBLE.</li> <li>DAMAGED EQUIPMENT SHALL BE REPAIRED OR REPLACED AT THE OPTION OF THE ARCHITECT.</li> </ol> <p><b>F. ELECTRICAL WORK</b></p> <ol style="list-style-type: none"> <li>ALL ELECTRICAL EQUIPMENT PROVIDED UNDER THIS DIVISION SHALL COMPLY WITH THE ELECTRICAL SYSTEM CHARACTERISTICS INDICATED ON THE ELECTRICAL DRAWINGS AND SPECIFIED IN DIVISION 16.</li> <li>EQUIPMENT UNIT MOTOR SPEED CONTROLS, STARTERS, SYSTEM CONTROLS, PILOT LIGHTS, PUSH-BUTTONS, ETC., SHALL BE FURNISHED COMPLETE AS A PART OF THE MOTOR APPARATUS WHICH IT OPERATES. ALL COMPONENTS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND DIVISION 16. ALL MOTOR STARTERS SHALL BE PROVIDED WITH AN H-O-A SWITCH AND CONTROL TRANSFORMER. ALL STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED UNDER DIVISION 15. COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR PRIOR TO HIS WIRING OF EQUIPMENT.</li> <li>CONTROL WIRING (120V AND LESS) SHALL BE PROVIDED UNDER DIVISION 15 AND EXTENDED FROM THE STARTERS, CONTROL TRANSFORMERS OR 120V POWER CIRCUITS INDICATED ON THE ELECTRICAL DRAWINGS. ALL WIRING FOR 120 VOLTS SHALL BE DONE BY A LICENSED ELECTRICIAN.</li> </ol> <p><b>G. ALL ELECTRICAL CHARACTERISTICS SHALL BE TAKEN FROM THE ELECTRICAL DRAWINGS AND SPECIFICATIONS AND COORDINATED BEFORE EQUIPMENT IS ORDERED OR PURCHASED.</b></p> <p><b>G. CUTTING AND PATCHING</b></p> <ol style="list-style-type: none"> <li>THE CONTRACTOR SHALL ASSUME ALL COST OF, AND BE RESPONSIBLE FOR, ARRANGING FOR ALL CUTTING AND PATCHING REQUIRED TO COMPLETE THE INSTALLATION OF HIS PORTION OF THE WORK. ALL CUTTING SHALL BE CAREFULLY AND NEATLY DONE SO AS NOT TO DAMAGE OR CUT AWAY MORE THAN IS NECESSARY OF ANY EXISTING PORTIONS OF THE STRUCTURE.</li> <li>ALL SURFACES SHALL BE PATCHED TO THE CONDITION OF THE ADJACENT SURFACES.</li> <li>THE CONTRACTOR SHALL MAKE SUITABLE PROVISIONS FOR ADEQUATE WATERPROOFING AT HIS FLOOR PENETRATIONS OR WATER PROOF MEMBRANE FLOORS. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FLOOR DRAINS, OPEN SIGHT DRAINS, HUB DRAINS, CLEANOUTS, AND SLEEVES FOR THE VARIOUS PIPING. THIS ALSO APPLIES TO MEMBRANE ROOFING SYSTEMS.</li> <li>ALL PENETRATION AND WATER PROOFING OF PENETRATIONS IN MEMBRANE ROOFING SYSTEMS SHALL BE COORDINATED WITH AND PERFORMED BY THE MANUFACTURER/INSTALLER.</li> <li>THE CONTRACTOR SHALL INSTALL, AS REQUIRED, IN CONCRETE, CARPENTRY OR MASONRY CONSTRUCTION, ALL NECESSARY HANGERS, SLEEVES, EXPANSION BOLTS, INSERTS AND OTHER FIXTURES AND APPURTENANCES NECESSARY FOR THE SUPPORT OF PIPE, DUCT, EQUIPMENT AND DEVICES FURNISHED UNDER EACH SECTION OF THE SPECIFICATION.</li> <li>FOR WALLS BETWEEN INTERIOR AND BELOW GRADE AREA, THE LINK-SEAL SYSTEM AS MANUFACTURED BY THUNDERLINE CORPORATION SHALL BE USED TO SEAL PIPE TO WALL PENETRATIONS. INSTALL SYSTEM IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.</li> <li>ESCUCHONES SHALL BE INSTALLED ON ALL PIPES WHERE THEY PASS THROUGH FLOORS, CEILINGS, WALLS OR PARTITIONS IN FINISHED AREAS WHERE EXPOSED TO VIEW.</li> <li>WHERE HVAC OR PLUMBING REPLACEMENT SCOPE IS INDICATED, MECHANICAL CONTRACTOR SHALL PROVIDE FOR THE DEMOLITION OF EXISTING SYSTEMS THAT ARE BEING REPLACED OR ABANDONED.</li> </ol> <p><b>H. ACCESS DOORS</b></p> <ol style="list-style-type: none"> <li>FURNISH AND INSTALL ACCESS DOORS AT EACH POINT REQUIRED TO PROVIDE ACCESS TO CONCEALED VALVES, CLEANOUTS AND OTHER DEVICES REQUIRING OPERATION, ADJUSTMENT OR MAINTENANCE. ACCESS DOORS SHALL BE 16 GAUGE STEEL, PRIME COAT FINISH, WITH MOUNTING STRAPS, CONCEALED HINGES AND SCREWDRIVER LOCKS, DESIGNED FOR THE DOORS TO OPEN 180 DEGREES.</li> <li>ACCESS DOORS INSTALLED IN FIRE WALLS OR PARTITIONS SHALL BE UL LABELED TO MAINTAIN THE FIRE RATING OF THE WALL OR PARTITION.</li> <li>FLAME SPREAD AND SMOKE DEVELOPED PROPERTIES OF MATERIALS</li> <li>MATERIALS AND ADHESIVES USED THROUGHOUT THE MECHANICAL AND ELECTRICAL SYSTEMS FOR INSULATION, AND JACKETS OR COVERINGS OF ANY KIND, OR FOR PIPING OR CONDUIT SYSTEM COMPONENTS, SHALL HAVE A FLAME SPREAD RATING NOT OVER 25 WITHOUT EVIDENCE OF CONTINUED COMBUSTION AND WITH A SMOKE DEVELOPED RATING NOT HIGHER THAN 50. IF SUCH MATERIALS ARE TO BE APPLIED WITH ADHESIVES, THEY SHALL BE TESTED AS APPLIED WITH SUCH ADHESIVES, OR THE ADHESIVES USED SHALL HAVE A FLAME SPREAD RATING NOT OVER 25 AND A SMOKE DEVELOPED RATING NOT HIGHER THAN 50.</li> </ol> <p><b>II. INSULATION</b></p> <p><b>A. GENERAL PIPE INSULATION</b></p> <ol style="list-style-type: none"> <li>FIBERGLASS SHALL BE ACCEPTABLE FOR INDOOR HOT &amp; COLD DOMESTIC HYDROSTATIC AND INSULATED DRAINAGE PIPING. PROVIDE PREFABRICATED FITTINGS FOR ELBOWS AND TEES. PROVIDE PREFAB PVC FITTINGS OR WHITE ALL SERVICE (INTEGRAL TO PREFAB PIPING ELBOW) PIPING ELBOW JACKETING. PROVIDE PIPE LABELING FOR ALL INSULATED, JACKETED INDOOR PIPING. PVC JACKETING SHALL NOT BE PERMITTED IN RETURN PLENUM AREAS. ALL JACKING SEAMS SHALL BE SEALED AIR-TIGHT FOR CONTINUOUS VAPOR BARRIER.</li> <li>FITTINGS AND VALVES SHALL BE INSULATED WITH PRE-FORMED FITTINGS, FABRICATED SECTIONS OF PIPE.</li> </ol> <p>INSULATION, TANK INSULATION, BLANKET INSULATION, OR INSULATING CEMENT. THICKNESS SHALL BE EQUAL TO ADJACENT PIPE INSULATION. FINISH SHALL BE WITH PRE-FORMED PVC FITTING COVERS OR AS OTHERWISE SPECIFIED ON CONTRACT DRAWINGS.</p> <ol style="list-style-type: none"> <li>FLANGES, COUPLINGS AND VALVE BONNETS SHALL BE COVERED WITH AN OVERSIZED PIPE INSULATION SECTION DESIGNED TO PROVIDE THE SAME INSULATION THICKNESS AS ON THE MAIN PIPE SECTION. AN OVERSIZED INSULATION SECTION SHALL BE USED TO FORM A COLLAR BETWEEN THE TWO INSULATION SECTIONS WITH LOW-DENSITY BLANKET INSULATION BEING USED TO FILL GAPS. JACKETING SHALL MATCH THAT USED ON STRAIGHT PIPE SECTIONS. ROUGH CUT ENDS SHALL BE COATED WITH SUITABLE WEATHER OR VAPOR RESISTANT MASTIC AS DICTATED BY THE SYSTEM LOCATION AND SERVICE. ON HOT SYSTEMS WHERE FITTINGS ARE TO BE LEFT EXPOSED, INSULATION ENDS SHOULD BE BEVELED AWAY FROM BOLTS FOR EASY ACCESS.</li> </ol> <p><b>B. INSULATION THICKNESS</b></p> <ol style="list-style-type: none"> <li>DOMESTIC COLD WATER INSULATION SHALL BE 1" MINIMUM OR AS REQUIRED BY LOCAL ENERGY CODES.</li> <li>FOR MEDIA BELOW 60 DEGREES INSULATION SHALL BE 1" UP TO 1-1/2" PIPE SIZE; 1.5" THICK UP TO 3" PIPE SIZE; AND 2" THICK BEYOND 3" PIPE SIZE.</li> <li>CHILLED WATER PIPING INSULATION SHALL BE 1" UP TO 1-1/4" PIPE SIZE, 1.5" UP TO 3".</li> </ol> <p><b>C. FIBERGLASS PIPE INSULATION</b></p> <ol style="list-style-type: none"> <li>ONE PIECE FIBROUS GLASS PIPE INSULATION WITH FACTORY APPLIED ALUMINUM FOIL AND WHITE KRAFT PAPER FLAME RETARDANT VAPOR BARRIER JACKET.</li> <li>PROVIDE SEALING LONGITUDINAL JACKET LAPS AND BUTT STRIPS. AVERAGE THERMAL CONDUCTIVITY: 0.23 BTU/IN. PER SQUARE FOOT PER DEGREES F PER HOUR AT 75 DEGREES F MEAN TEMPERATURE.</li> <li>PROVIDE INSULATION CEMENT, FIBERGLASS REINFORCEMENT FABRIC, VAPOR BARRIER COATING, FOR CONTINUOUS, AIR-TIGHT INSULATION WITH VAPOR BARRIER.</li> </ol> <p><b>D. FOAMGLASS PIPE INSULATION</b></p> <ol style="list-style-type: none"> <li>FOAM GLASS TYPE PIPE INSULATION SHALL HAVE MAXIMUM K-FACTOR OF 0.38 AT 50 DEGREES F MEAN TEMPERATURE. MINIMUM DENSITY SHALL BE 8 LB/CU. FT., 1 1/2" THICK MINIMUM. PROVIDE MASTIC, FIBERGLASS REINFORCED STRAPPING TAPE TO ASSURE AIR-TIGHT MOISTURE-PROOF INSULATION. PROVIDED WITH ALUMINUM JACKETING THAT SHALL BE 0.018" THICK WITH FITTING COVERS 0.024" THICK. PROVIDE WITH 5 WATT/THIRTY HEATING BELOW INSULATION FOR OUTDOOR, ABOVE-GROUND INSTALLATION.</li> <li>PROVIDE FOAM GLASS INSERTS AT PIPE HANGERS, CLAMPS, OR OTHER SUPPORTS IN FIBERGLASS OR ELASTOMERIC PIPE INSULATION. INSULATION INSERTS SHALL BE SAME THICKNESS AS ADJOINING PIPE INSULATION. VAPOR SEAL SHALL BE AS HEREINBEFORE SPECIFIED. ALUMINUM JACKETING SHALL NOT BE REQUIRED FOR INDOOR INSERTS (PVC OR WHITE ALL-SERVICE FOIL/KRAFT/JACKETING MEDIA SHALL BE USED).</li> </ol> <p><b>E. ELASTOMERIC (CLOSED CELL FOAM) PIPE INSULATION</b></p> <ol style="list-style-type: none"> <li>ELASTOMERIC SHALL BE PROVIDED FOR ALL REFRIGERANT PIPING AND OUTDOOR INSULATED PIPING AND MAY BE USED FOR INDOOR DOMESTIC OR CONDENSATE PIPING. PIPING WILL REQUIRE JACKETING. ALUMINUM FOR OUTDOOR PIPING OR FOIL/WHITE KRAFT MEDIA OR PVC FOR INDOOR PIPING. PROVIDE WITH FULL ADHESIVE ADHERING SEAMS AND JOINTS FOR CONTINUOUS VAPOR BARRIER. ELBOWS SHALL BE FORMED BY CUTTING SEGMENTS AT 30 DEGREE ANGLES (3 SEGMENTS AT EACH 90 DEGREE BEND) WITH MASTIC AT ALL SEAMS. PROVIDED PREFORMED JACKETING ELBOWS AT ALL PIPING ELBOWS.</li> </ol> <p><b>F. FIBERGLASS BLANKET INSULATION FOR DUCTWORK (INDOOR DUCT ONLY)</b></p> <ol style="list-style-type: none"> <li>INSULATION SHALL BE BLANKET TYPE FIBERGLASS INSULATION WITH AVERAGE THERMAL CONDUCTIVITY NOT EXCEDING 0.29 BTU IN. PER SQUARE FOOT PER DEGREES F PER HOUR AT MEAN TEMPERATURE OF 75 DEGREES F. WITH A MINIMUM DENSITY OF 1 LB/CU. FT., 2" THICK MINIMUM AND FOIL INSULATION FACE. PROVIDE FIRE RETARDANT ADHESIVE OR FOIL REINFORCED KRAFT TAPE, 3" WIDE AT ALL SEAMS. SECURE INSULATION TO DUCT WITH 18 GAUGE TIE-WIRE OR 1/2" X 0.015" GALVANIZED STEEL STRAPS. PROVIDE COMPLETE AIR-TIGHT VAPOR BARRIER FOR ALL DUCTWORK. STAPLES SHALL NOT BE PERMITTED FOR AN INSULATION ATTACHMENT. PROVIDE GRAY SEALER FOR SEALING JOINTS, PENETRATION AND PUNCTURES.</li> <li>CONTINUE INSULATION THROUGH WALL AND CEILING OPENINGS AND SLEEVES, EXCEPT TERMINATE DUCT INSULATION AT FIRE DAMPERS AND AT FLEXIBLE DUCT CONNECTIONS AT AIR HANDLING UNITS.</li> <li>PROTECT INSULATION FROM PHYSICAL DAMAGE AT POINTS OF SUPPORT WHERE INSULATION MUST CARRY LOAD IMPOSED BY SUPPORT. COORDINATE THIS REQUIREMENT WITH TYPES OF HANGER AND SUPPORT USED. HANGERS THAT PENETRATE INSULATION SHALL BE SEALED WITH MASTIC TO PRESERVE CONTINUOUS VAPOR BARRIER.</li> </ol> <p><b>G. ELASTOMERIC (CLOSED CELL FOAM) DUCT INSULATION</b></p> <ol style="list-style-type: none"> <li>ELASTOMERIC (CLOSED CELL FOAM) DUCT INSULATION SHALL BE PROVIDED FOR ALL DUCTS WITH FULL ADHESIVE COVERAGE ATTACHMENT TO THE SURFACE TO WHICH IT IS APPLIED. 1" FOR INDOOR AND 2" FOR OUTDOOR. R VALUES SHALL BE R-6 FOR 1" AND R-12 FOR 2". FIBERGLASS DUCT LINER SHALL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES. PROVIDE WITH ANTIMICROBIAL PROTECTION. PROVIDE MASTIC AT ALL INTERIOR SEAMS FOR CONTINUOUS VAPOR BARRIER.</li> </ol> <p><b>III. VIBRATION ISOLATION</b></p> <ol style="list-style-type: none"> <li>ALL MOTORIZED AIR MOVING AND FLUID MOVING EQUIPMENT PIECE SHALL BE PROVIDED WITH VIBRATION ISOLATION MOUNTING OR SUPPORTS.</li> <li>PISTON-TYPE VIBRATION ISOLATORS SHALL PREVENT THE CENTRAL THREADED SLEEVE AND MOLDING BEING OIL RESISTANT 25,000 PSI TENSILE STRENGTH NEOPRENE. MOUNTING ISOLATORS FOR ITEMS 300 LB OR LESS SHALL BE BRIDGE-BEARING NEOPRENE AND SHALL HAVE A MINIMUM STATIC DEFLECTION OF 0.2" AND ALL DIRECTIONAL SEISMIC CAPABILITY. THE ELEMENTS SHALL PREVENT THE CENTRAL THREADED SLEEVE AND ATTACHMENT BOLT FROM CONTACTING THE CASTING DURING NORMAL OPERATION. THE SHOCK ABSORBING NEOPRENE MATERIALS SHALL BE COMPOUNDED TO BRIDGE-BEARING NEOPRENE.</li> <li>HANGING ISOLATORS FOR EQUIPMENT ABOVE 300 LB SHALL BE STEEL SPRING-TYPE INCORPORATING STEEL HOUSING, NEOPRENE OR LDS RUBBER SPRING CUP SIZED FOR 1" DEFLECTION. INSTALL SPRING IN PLUMB CONFIGURATION WITH MAXIMUM 1" DEFLECTION FROM AN HORIZONTAL DISTORTION. THE ELEMENTS SHALL PREVENT THE CENTRAL THREADED SLEEVE AND ATTACHMENT BOLT FROM CONTACTING THE CASTING DURING NORMAL OPERATION. CONTRACTOR SHALL SELECT SPRING COLOR/RATING BASED ON EQUIPMENT WEIGHT. AMBER BOOTH SH, KINETICS SH, MASON 30 OR EQUIVALENT.</li> </ol> <p><b>D. SANITARY WASTE &amp; VENT, STORM, GREASE WASTE</b></p> <ol style="list-style-type: none"> <li>UNDERGROUND SANITARY, WASTE AND VENT PIPING, AND STORM DRAINAGE PIPING, AND INDOOR PIPING ABOVE 8" IN SIZE SHALL BE SERVICE WEIGHT (COATED) CAST IRON SOIL PIPE AND FITTINGS, ASTM A74, WITH GASKET HUB AND SPIGOT JOINTS, ASTM C564, GASKET JOINTS FOR CAST IRON PIPE SHALL BE MADE WITH LUBRICATED NEOPRENE COMPRESSION GASKETS. PVC SHALL BE PERMITTED IF ALLOWED BY LOCAL CODE. UNDERGROUND PVC PIPING SHALL BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS MEETING ASTM D-1785 AND ASTM D-2665.</li> <li>ABOVE-GROUND SANITARY, WASTE AND VENT AND STORM DRAINAGE PIPING 8" AND SMALLER SHALL BE SERVICE WEIGHT CAST IRON SOIL PIPE AND FITTINGS, ASTM A888 AND CISPI 301, WITH STANDARD NO-HUB COUPLINGS. PVC SHALL BE PERMITTED OUTSIDE OF RETURN AIR PLENUMS WITH OWNER APPROVAL. NEOPRENE RUBBER GASKET AND MINIMUM 24 GAUGE TYPE 304 STAINLESS STEEL SHIELD AND FOUR STAINLESS STEEL BANDS FOR SIZES 1 1/2" THROUGH 4", SIX BANDS MINIMUM FOR SIZED 5" AND LARGER. 6" PIPE AND UP: NEOPRENE ELASTOMERIC GASKET AND SERIES 300 STAINLESS STEEL SHIELD AND MULTIPLE DRAW BANDS AND SCREW CLAMPS CONFORMING TO ANSI C-564 AND CISPI STANDARD 310-90. ABOVE-GROUND SANITARY PIPE LOCATED OUTSIDE OF RETURN AIR PLENUMS MAY ALSO BE SCHEDULE 40 PVC WITH SOLVENT WELD JOINTS MEETING ASTM D-1785 AND ASTM D-2665 PER OWNER APPROVAL.</li> <li>ALL WASTE PIPING 1" IN SIZE AND SMALLER SHALL BE TYPE "L" HARD DRAWN COPPER TUBING, ASTM B88, WITH SOLDERED JOINTS AND WROUGHT COPPER, ANSI B16.22, OR CAST BRONZE, ANSI B16.18, SOCKET FITTINGS. SOLDERED JOINTS FOR TYPE 'L' COPPER TUBING AND CAST DWN BRONZE PIPE SHALL BE MADE WITH 95-5 TIN-ANTIMONY (NO LEAD) SOLDER AND COMPATIBLE FLUX.</li> </ol> <p><b>E. PIPING HANGERS</b></p> <ol style="list-style-type: none"> <li>PROVIDE CLEVIS SUPPORTS WITH BEAM CLAMP, CONCRETE ANCHORS (CONCRETE STRUCTURE), SCREWED BRACKET (WOOD STRUCTURE). PROVIDE HANGER OUTSIDE OF INSULATION WITH RIGID FOAM GLASS INSULATION SECTION AT HANGERS. PROVIDE 16 GAUGE PIPING SADDLE AT EACH HANGER. NO WELDING OR CUTTING OF STEEL STRUCTURAL MEMBERS SHALL BE PERMITTED. LAYOUT BASIS SHALL BE ANVL 260.</li> <li>PROVIDE SEISMIC HANGERS PER DRAWING REQUIREMENTS.</li> <li>HANGER INSTALLATION FOR HOT WATER PIPING SHALL NOT PREVENT MOVEMENT FOR PIPING EXPANSION.</li> <li>SPACING AS FOLLOWS:</li> </ol> <p>STEEL PIPE: 1/2" TO 1-1/4" - 7' - 1-1/2" TO 2-1/2" - 9' - 3" &amp; 4" - 12' - 6" &amp; 8" - 17' - 10" AND UP- 22'</p> <p>COPPER PIPE: 1/2" TO 1" - 5' - 1-1/4" TO 2" - 7' - 2-1/2" AND UP - 9'</p> <p>CAST IRON: 10' WITH SUPPORT AT EACH JOINT, TAKEOFF, AND FITTING.</p> <p>PVC DRAINAGE (140 DEG F SERVICE UP TO 6") - 80 DEG F ABOVE 6": UP TO 3" - 3' ; 4" TO 6" - 4" ; ABOVE 6" - 8"</p> <p>PVC VENT (80 DEG F SERVICE): UP TO 1-1/2" - 5' ; 2" - 3" - 6' ; ABOVE 3" - 7'</p> <p><b>VII. VALVES/PUMPS</b></p> <p><b>A. GENERAL</b></p> <ol style="list-style-type: none"> <li>VALVES SHALL HAVE THE NAME OR TRADEMARK OF THE MANUFACTURER AND THE WORKING PRESSURE STAMPED OR CAST ON THE VALVE BODY.</li> <li>ALL VALVES IN EACH SYSTEM, EXCEPT FOR SPECIAL TYPES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER.</li> <li>ALL VALVES REQUIRING PACKING SHALL BE DESIGNED AND CONSTRUCTED SUCH THAT THEY CAN BE REPACKED UNDER PRESSURE.</li> <li>VALVE HAND WHEELS/ ACTUATOR SHALL BE MALLEABLE IRON EXCEPT WHERE SPECIFIED OTHERWISE.</li> <li>ALL VALVES INSTALLED IN HORIZONTAL LINES SHALL BE INSTALLED WITH THE STEMS HORIZONTAL OR ABOVE. VALVE ACTUATOR SHALL BE ORIENTED, WHEN INSTALLED, TO PROVIDE MAXIMUM ACCESSIBILITY FOR OPERATION.</li> <li>PROVIDE ACCESS PANELS FOR VALVES LOCATED IN WALLS OR ABOVE HARD CEILINGS.</li> </ol> <p><b>B. VALVES FOR HYDROIC / DOMESTIC WATER SYSTEM</b></p> <ol style="list-style-type: none"> <li>BALL VALVES (FOR PIPING 3" AND SMALLER) SHALL HAVE BRONZE BODY, STAINLESS STEEL BALL, LEVER HANDLE, FOR SYSTEMS UP TO 125 PSIG. GATE VALVES SHALL NOT BE PERMITTED FOR PIPES 3" AND SMALLER. VALVE LAYOUT BASIS SHALL BE WATTS B6000-SS.</li> <li>GATE VALVES (FOR DOMESTIC PIPING 4" IN SIZE AND LARGER): VALVE SHALL HAVE IRON BODY, BRONZE TRIM, NON-RISING STEM, SOLID WEDGE AND FLANGED ENDS FOR 200 POUND W.O.G. LAYOUT BASIS FOR VALVE SHALL BE NIBCO F-619.</li> <li>BITTERLY VALVES (FOR HYDROIC PIPING 4" AND LARGER): VALVE SHALL HAVE DUCTILE IRON BODY, EXTENDED NECK, GEOMETRIC DRIVE MOLDED-IN SEAT LINER, EPDM LINER AND ALUMINUM BRONZE DISC - INSTALL BETWEEN STD. ANSI CLASS 125/150 FLANGES - CONFORMING TO MSS-SP67/MSS-SP25/API-609. LAYOUT BASIS SHALL BE NIBCO WD 2000.</li> <li>CHECK VALVES (4" IN SIZE AND LARGER): VALVE SHALL BE HORIZONTAL SWING TYPE WITH IRON BODY, BRONZE TRIM AND FLANGED ENDS FOR 200 POUND W.O.G. VALVE LAYOUT BASIS SHALL BE NIBCO F-918-B.</li> <li>CHECK VALVES (3" IN SIZE AND SMALLER): VALVE SHALL BE HORIZONTAL SWING TYPE WITH BRONZE BODY, COMPOSITION DISC AND SOLDER ENDS FOR 200 POUND W.O.G. LAYOUT BASIS SHALL BE NIBCO S-713.</li> <li>HOSE END DRAIN VALVES: VALVE SHALL BE 3/4" IN SIZE WITH BRONZE BODY, NON-RISING STEM, SOLID WEDGE, THREADED INLET AND HOSE OUTLET WITH CAP AND CHAIN FOR 200 POUND W.O.G.</li> <li>UNDERGROUND GATE VALVES AND VALVE BOXES: GATE VALVES (4" IN SIZE AND LARGER) SHALL BE APPROVED WITH IRON BODY, BRONZE TRIM, HARZARING STEM, PARALLEL SEAT DISC, 1/2" SQUARE OPERATING NUT AND MECHANICAL JOINT ENDS FOR 200 POUND W.W.P. VALVE BOXES SHALL BE PROVIDED FOR EACH UNDERGROUND GATE VALVE. VALVE BODY SHALL BE ADJUSTABLE CAST IRON ROADWAY TYPE WITH BELLED LOWER SECTION AND REMOVABLE LID AT GRADE. LID SHALL BE LABELED "WATER" AND BOXES NOT IN PAVED AREAS SHALL BE SET IN A 12" X 12" X 6" CONCRETE PAD. VALVE BOXES LAYOUT BASIS SHALL BE MUELLER H-10360. PROVIDE ONE T-WRENCH FOR EACH SIZE OPERATING NUT.</li> <li>FLANGED JOINT SHALL BE MADE WITH RING TYPE NON-METALLIC GASKETS, BOLTS AND NUTS.</li> <li>THREADED JOINTS AT EQUIPMENT CONNECTIONS SHALL BE MADE UP WITH TEFLON TAPE. AFTER CUTTING BUT PRIOR TO THREADING, PIPE SHALL BE REAMED AND SHALL HAVE BURRS REMOVED.</li> <li>GROOVED MECHANICAL JOINTS: GROOVED JOINTS FOR COPPER AND GALVANIZED STEEL PIPES SHALL BE INSTALLED USING BOLTED MECHANICAL COUPLING, PRESSURE-RESPONSIVE GASKET ALONG WITH GROOVED AND</li></ol>	
---	--

## GENERAL PLUMBING NOTES

- THESE DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT INTENDED TO SHOW ALL POSSIBLE CONDITIONS. IT IS INTENDED THAT A COMPLETE PLUMBING AND FIRE PROTECTION SYSTEM BE PROVIDED WITH ALL NECESSARY EQUIPMENT, APPURTEANCES AND CONTROLS COMPLETELY COORDINATED WITH ALL DISCIPLINES. ALL PARAMETERS GIVEN IN THESE DOCUMENTS SHALL BE STRICTLY CONFORMED TO ANY ITEMS AND LABORATORY REQUIREMENTS FOR A COMPLETE PLUMBING AND FIRE PROTECTION SYSTEM IN CONFORMANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL AUTHORITIES AND THESE CONTRACT DOCUMENTS SHALL BE FURNISHED WITHOUT INCURRING ANY ADDITIONAL COST TO THE OWNER. CAREFULLY REVIEW ALL CONTRACT DOCUMENTS AND THE DESIGN OF OTHER TRADES BEFORE PREPARING SHOP DRAWINGS.
- COORDINATE ALL WORK WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL TRADES. PIPE ROUTING SHOWN IS DIAGRAMMATIC. PROVIDE ALL OFFSETS, ETC. TO AVOID INTERFERENCES WITH EQUIPMENT, PIPING, DUCT WORK, LIGHTS, CONDUITS, AND STRUCTURAL ITEMS, ETC..
- ALL DRAINAGE PIPING AND POTABLE WATER PIPING SHALL BE CONCEALED INSIDE WALLS AND PIPE CHASES OR ABOVE CEILINGS AS HIGH AS POSSIBLE.
- EXPOSED PIPING AT FIXTURES SHALL BE SECURED TO WALLS CONSTRAINED AGAINST ANY FREE-MOVEMENT OF PIPING.
- CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL DOMESTIC WATER, SANITARY SEWERS, STORM DRAINS, FIRE SUPPLY AND GAS SERVICES AT APPROXIMATELY 5'-0" FROM BUILDING STRUCTURE UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR LOCATION OF ALL PLUMBING FIXTURES. EXACT LOCATION OF ALL PLUMBING FIXTURES MUST BE VERIFIED IN FIELD PRIOR TO INSTALLATION. FINAL LOCATIONS AND HEIGHTS SHALL BE AS DIRECTED BY ARCHITECT.
- PLUMBING CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL EQUIPMENT INDICATED ON DRAWINGS INCLUDING KITCHEN AND LAUNDRY EQUIPMENT PER MANUFACTURER'S SPECIFIC INSTALLATION INSTRUCTIONS. FINAL CONNECTION SHALL INCLUDE ANY ADAPTERS, NIPPLES, SHUTOFF VALVES, PRESSURE REGULATING VALVES, SHOCK ABSORBERS, BACKFLOW PREVENTION DEVICES, ETC. CONTRACTOR SHALL COMPLETELY REVIEW EACH EQUIPMENT ITEM'S INSTALLATION INSTRUCTIONS PRIOR TO COMMENCEMENT OF WORK. ALL ITEMS REQUIRE FOR INSTALLATION ARE INCLUDED IN THE PLUMBING CONTRACTOR'S SCOPE.
- DO NOT RUN PLUMBING OR FIRE PROTECTION PIPING THROUGH TRANSFORMER VAULTS, ELECTRICAL CLOSETS, ELECTRICAL SWITCHGEAR ROOMS, ELEVATOR EQUIPMENT ROOMS, COMPUTER ROOMS OR TELEPHONE ROOMS. DO NOT RUN ANY PIPING ABOVE ELECTRICAL PANELS OR OTHER ELECTRICAL/CONTROLS COMPONENTS.
- ALL COMMERCIAL FIXTURES SPECIFIED BY AN EQUIPMENT PROVIDER SHALL OVERRIDE ANY SPECIFIED PLUMBING FIXTURES ON THIS PLAN. THE PLUMBER SHALL COORDINATE FINAL REQUIRED FIXTURES WITH OWNER/EQUIPMENT SUPPLIER. VERIFY CONNECTION SIZE AND LOCATION OF ALL ITEMS WITH KITCHEN EQUIPMENT DRAWINGS.
- PROVIDE AN EXPANSION JOINT ON ALL PIPING SYSTEMS THAT CROSS BUILDING EXPANSION JOINTS.
- PROVIDE CONNECTION TO EXISTING WATER SERVICE WHERE AVAILABLE. PROVIDE WATER METER, PRV STATION WITH FULL SIZE BYPASS, AND VALVE. COORDINATE METERS AND VALVE LOCATIONS WITH LOCAL UTILITY AND UTILITIES COMPANIES. CONNECT TO EXISTING SANITARY AND KITCHEN WASTE STUB WHERE AVAILABLE. CONNECTIONS TO EXISTING UTILITIES SHALL BE COORDINATED IN THE FIELD FOR EXACT LOCATION AND INVERT AVAILABILITY.
- PROVIDE GAS CONNECTION TO EXISTING METER WHERE POSSIBLE. PROVIDE CONNECTION TO ROOF MOUNTED EQUIPMENT AND TO KITCHEN EQUIPMENT AS INDICATED ON KITCHEN EQUIPMENT DRAWING. PROVIDE SHUT-OFF VALVES AT ALL POINTS OF CONNECTION. PROVIDE SOLENOID SHUT-OFF VALVE FOR GAS SYSTEMS UNDER KITCHEN HOODS. INTERLOCK SOLENOID WITH HOOD FIRE PROTECTION SYSTEM. GAS PIPING SHALL NOT BE ROUTED BELOW FLOORS. PIPING INDICATED AS BELOW SLAB SHALL BE PROVIDED IN A PREFABRICATED MODULAR STAINLESS STEEL UTILITY TRENCH.
- ALL PLUMBING FIXTURES, PIPING, AND MATERIALS SHALL BE LISTED OR LABELED AND INSTALLED AS PER A RECOGNIZED APPROVAL AGENCY.
- ALL WORK WITHIN THIS SCOPE OF WORK SHALL COMPLY WITH ALL CITY, STATE, AND NATIONAL PLUMBING CODES. ALL WORK SHALL CONFORM TO BUILDING STANDARDS.
- PLUMBING CONTRACTOR SHALL VERIFY VOLTAGE, PHASE AND WIRE SIZE OF PLUMBING EQUIPMENT REQUIRING ELECTRICAL CONNECTION WITH ELECTRICAL CONTRACTOR PRIOR TO PURCHASE OF EQUIPMENT
- COORDINATE ALL FLOOR PENETRATIONS WITH STRUCTURAL DRAWINGS. THE PLUMBER SHALL SET SLEEVES IN FLOORS AND WALLS AND ATTACHMENTS FOR HANGERS AS CONSTRUCTION PROGRESSES. COORDINATE THE EXACT SIZE AND LOCATION OF ALL SLEEVES WITH STRUCTURAL ENGINEER. ALL PENETRATIONS MUST BE SEALED AND HELD AS TIGHT TO COLUMNS OR WALLS AS POSSIBLE.
- COORDINATE ALL UNDERGROUND PIPING WITH GRADE BEAMS, WALL FOOTINGS, COLUMN FOUNDATIONS AND OTHER STRUCTURAL CONDITIONS.
- ALL DRAINAGE PIPING AND VENT PIPING SHALL SLOPE AT 1/8 INCH PER FOOT UNLESS OTHERWISE NOTED.
- EXACT LOCATION OF ALL CLEANOUTS MUST BE COORDINATED AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION.
- SANITARY VENTS MUST TERMINATE A MINIMUM OF 10 FT. FROM OR 2 FT. ABOVE AIR INTAKES, WINDOWS OR VENT SHAFTS.
- ALL HOSE BIBS AND WASHDOWN FAUCETS ARE REQUIRED TO HAVE PROPER BACKFLOW PREVENTERS WHERE HOSES ARE ATTACHED AND LEFT UNATTENDED. CHEMICAL FEED SYSTEMS AT COMMERCIAL KITCHENS SHALL HAVE DEDICATED BACKFLOW PREVENTERS SEPARATE FROM WASHDOWN OR HOSE BIB FIXTURES.
- PROVIDE 12" x 12" ACCESS PANELS FOR SHOCK ABSORBERS, TRAP PRIMERS AND ALL VALVES LOCATED ABOVE NON-ACCESSIBLE CEILINGS AND INSIDE PIPE CHASES. EXACT LOCATION MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND APPROVED BY ARCHITECT PRIOR TO INSTALLATION. ALL ACCESS PANELS SHALL BE LOCATED SO THAT THEY ARE NOT VISIBLE TO PUBLIC VIEW.
- WALL HYDRANTS AND HOSE BIBS SHALL BE MOUNTED 1'-6" ABOVE GRADE OR FLOOR LEVELS.
- PIPING INSULATION SHALL BE PROVIDED WITH CONTINUOUS AIR-TIGHT VAPOR BARRIER WITH NO LOOSE TAPE OR EXPOSED INSULATION MATERIAL. CONDENSATE PIPING SHALL BE PROVIDED WITH ELECTROMETRIC INSULATION. ALL INSULATION AND WRAPPING JOINTS AND SEAMS SHALL BE PROVIDED WITH 1" OVERLAP AND MANUFACTURER'S RECOMMENDED AIR-TIGHT MASTIC AT ANY INSULATION OR VAPOR BARRIER JOINTS. INSULATION SHALL BE INSTALLED WITH FULL THICKNESS, FREE OF ANY INSULATION COMPRESSION. PROVIDE RIGID INSULATION SECTION AT ALL PIPING HANGERS.
- PROVIDE A VALVE BYPASS AT ALL EQUIPMENT INCLUDING WATER HEATERS, STORAGE TANKS, WATER SOFTENERS, BOOSTER PUMPS, FIRE PUMPS, ETC. FOR MAINTENANCE OF EQUIPMENT.
- PROVIDE BALL VALVES AT ALL BRANCH LINES SERVING MULTIPLE FIXTURES. PROVIDE ACCESSIBLE BALL VALVE AT EACH FIXTURE CONNECTION (IN ADDITION TO ANY EXPOSED STOPS) OR FIXTURE HEADER BRANCH CONNECTION.
- ALL HAND-WASHING BASINS AND LAUNDRIES INSTALLED SHALL BE EQUIPPED WITH HOT AND COLD WATER THROUGH A MIXING VALVE UNLESS A TEMPERED WATER SUPPLY IS INDICATED.
- INSTALL VACUUM BREAKERS A MINIMUM OF 6' ABOVE THE FLOOD LEVEL RIM OF A FIXTURE SERVED WITH NO SHUT-OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
- THE USE OF RISER CLAMPS TO SUPPORT VERTICAL PIPE ALONG WALLS, OR COLUMNS IS PROHIBITED. PROVIDE B-LINE 22 STRUT & B-2000 PIPE CLAMPS.
- CONTRACTOR SHALL HANG ALL PIPING FROM THE STRUCTURAL MEMBERS (W-SHAPES, B-joists) WITH CLAMP-TYPE CONNECTIONS. PIPING SHALL NOT BE SUPPORTED FROM THE METAL DECK. STRUCTURAL MEMBERS SHALL NOT BE CUT OR DRILLED.
- ALL JOINTS, ANNUAL SPACES, OR OPENINGS INTO HOLLOW OR INACCESSIBLE AREAS ARE TO BE CLOSED TO 1/32" OR LESS FOR FOOD SERVICE AREAS.
- ALL ANNUAL SPACES ARE TO BE CLOSED AND ESCUTCHEON PLATES AT HAND WASHING AREAS MUST BE SECURED.
- INSTALL VACUUM BREAKERS A MINIMUM OF 6' ABOVE THE FLOOD LEVEL RIM OF THE FIXTURE SERVED WITH NO SHUT-OFF DEVICES BEYOND THE DISCHARGE OF THE VACUUM BREAKER.
- ALL JOINTS, ANNUAL SPACES, OR OPENINGS INTO HOLLOW OR INACCESSIBLE AREAS ARE TO BE CLOSED TO 1/32" OR LESS FOR FOOD SERVICE AREAS.

## PLUMBING FIXTURE SCHEDULE

Fixture Tag	Drain	Vent	CW	HW	Fixture Description		Fixture Specification	Valve/Faucet Specification
					JAY R. SMITH 305-12	JAY R. SMITH 3110		
FS - 1	3	1.5			JAY R. SMITH 4020S	JAY R. SMITH 5000 SERIES	PVC FLOOR SINK WITH 1/2 PVC GRATE - MAX 200 DEG DISCHARGE ACCEPTANCE	
PVC ECONOMY FLOOR SINK					CAST IRON FLANGED RECEPTOR WITH SEEPAGE HOLES; ACID RESISTANT COATED INTERIOR; 12-1/2" SQUARE NICKEL BRONZE RIM AND SECURED GRATE; SEDIMENT BUCKET; 1/2" COVER AND GRATE; P050 TRAP PRIMER OPTION. CAST IRON GRATES NOT PERMITTED. CAST IRON FLOOR CLEAN OUT			
FS-2	3	1.5					CAST IRON CLEANOUT; NICKEL BRONZE 6" ROUND ADJUSTABLE SCORIATED VANDAL PROOF TOP; GASKET SEAL ABS THREADED PLUG WITH SLOT TO RECEIVE 1/2" BAR STOCK. ARFCO; ACID RESISTANT OPTION.	
12X12 FLOOR SINK								
FCO	4							
FLOOR CLEAN OUT								
WHA								
WATER HAMMER ARRESTOR								
MXV-1			.75(X2)		POWERS LM490	ATUNES AZN FILTER SYSTEM	MULTI-FIXTURE MIXING VALVE, SOLID BRASS WITH INTEGRAL CHECK. THREADED UNION CONNECTIONS. ASSE1017	
MIXING VALVE								
VZN		0.75 (X2)					COORDINATE WITH EQ. PROVIDER	
WATER FILTER SYSTEM								
DOMESTIC WATER BOOSTER PUMP	--	--	1.25	60"	SERVES WATER PIPING TO FILTERS/SOFTENERS/FOOD SERVICE EQUIPMENT			
1. ALL FIXTURES, EQUIPMENT, TRIM, FITTINGS, ETC. SHALL COMPLY WITH LOCAL, STATE AND/OR FEDERAL REGULATIONS AND CODES, INCLUDING BUT NOT LIMITED TO WATER AND ENERGY CONSERVATION CODES, AND THE AMERICANS WITH DISABILITIES ACT (ADA).								
2. PROVIDE ALL MOUNTING HARDWARE, ESCUTCHEONS AT PIPE PENETRATIONS AND FITTINGS FOR COMPLETE INSTALLATION. FOR SINK AND TANK TOILET FIXTURES CHROME FINISH BRASS 1/4-TURN ANGLE STOPS AND CHROME SUPPLIES TO FIXTURE. WHERE CONCEALED, STEEL BRAIDED HOSES SHALL BE ACCEPTED.								
3. THE SCHEDULE REFLECTS FIXTURES AND EQUIPMENT WHICH ARE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR CONTRACTORS BASE BID. WALL PLUGS OR EXPOSED TRANSFORMERS NOT PERMITTED.								
4. WHERE SPECIFIED FIXTURES AND/OR EQUIPMENT ARE NOT IN COMPLIANCE WITH GOVERNING CODES AND REGULATIONS, THE CONTRACTOR SHALL PROVIDE AN ALTERNATE BID FOR THE SUBSTITUTIONS OF COMPLYING FIXTURES, EQUIPMENT, FITTINGS, ETC.								
4. THE ABSENCE OF AN ALTERNATE BID SHALL BE CONSTRUED TO MEAN THAT THE CONTRACTORS BASE BID INCLUDES ALL COSTS NECESSARY TO MEET ALL REGULATIONS AND CODES.								

## BACKFLOW PREVENTER MATRIX

MARK	MODEL	SERVES	TYPE	IPC LISTING
BFP-1	WATTS 009	WATER SERVICE	RPZ	ASSE 1013
BFP-2	WATTS SD-3	CARBONATOR	CO2 CHECK	ASSE 1022
BFP-3	WATTS 7	FOOD SERVICE WATER FILTER	DOUBLE CHECK	ASSE 1024
BFP-4	WATTS 7	RINSE FAUCETS (MULTI COMP SINK)	DOUBLE CHECK	ASSE 1024
BFP-5	INTEGRAL TO FIXTURE	HOSE BIB	DOUBLE CHECK	ASSE 1052
BFP-6	WATTS 7	CHEMICALS DISP.	DOUBLE CHECK	ASSE 1024
BFP-7	WATTS SD-3	CARBONATED DRINK DISPENSER	CO2 CHECK	ASSE 1022
BFP-8	WATTS 7	ICE MAKER	DOUBLE CHECK	ASSE 1024
BFP-9	WATTS 7	NON-CARB DRINK DISPENSER	DOUBLE CHECK	ASSE 1024
BFP-10	WATTS 288A	WATER HEATER VACUUM BREAKER	VACUUM BREAKER	ASSE 1001
BFP-11	INTEGRAL TO FIXTURE	MOP SINK FAUCET	VACUUM BREAKER	ASSE 1001

### NOTES:

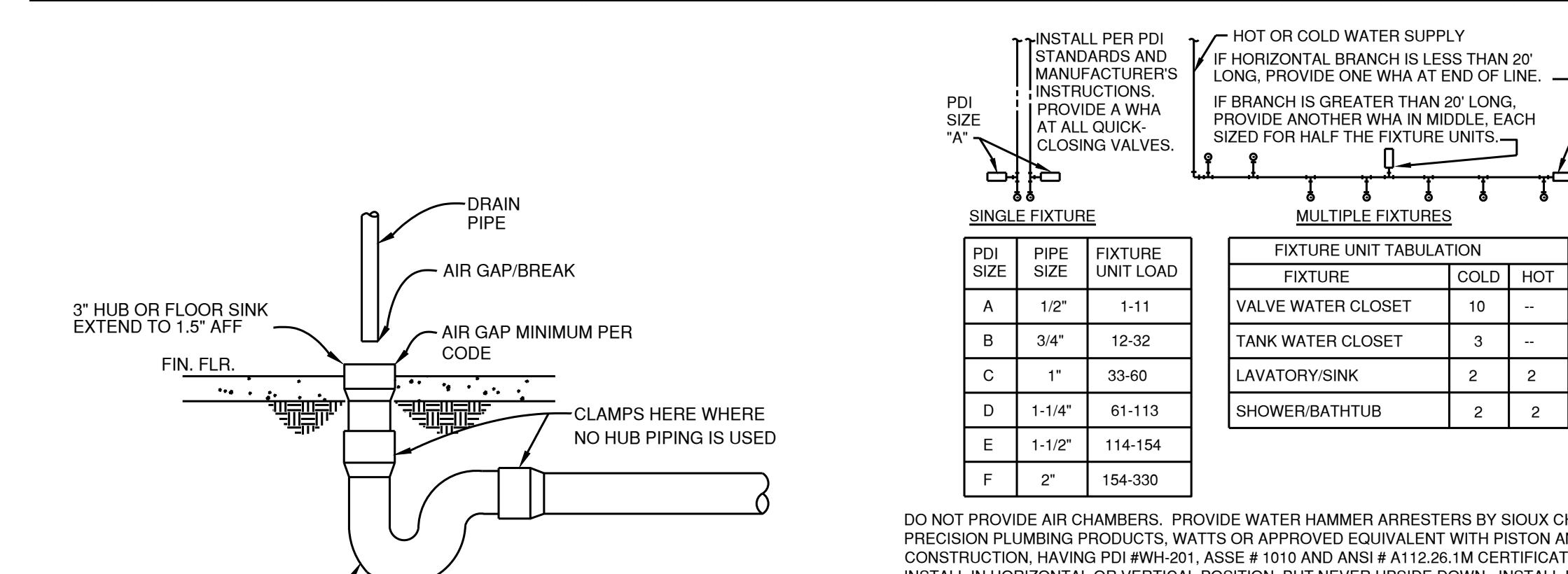
1. PROVIDE HANGING ALUMINUM TAG FOR EACH BFP WITH THE BFP DESIGNATOR AND LISTING ETCHED IN AS INDICATED ABOVE.
2. TENANT SHALL PROVIDE TESTING FOR EACH BFP AT THE TIME OF INSTALLATION/RELOCATION AND ANNUALLY THEREAFTER
3. TESTING PROCEDURES TO BE PERFORMED PER LOCAL CODE
4. MOUNT WITH BFP ACCESSIBLE FOR TESTING/REPAIR AT A MINIMUM 1" ABOVE FLOOR AND MAXIMUM 5' ABOVE FLOOR
5. PROVIDE ACCESS PANELS FOR BFP THAT ARE INSTALLED WITHIN WALLS WHERE SURFACE MOUNTING IS NOT POSSIBLE.
6. PROVIDE IN ACCORDANCE WITH THE REQUIREMENTS OF LOCAL CODE.
7. ALL BFP MUST BE LEAD FREE ASSEMBLY

END

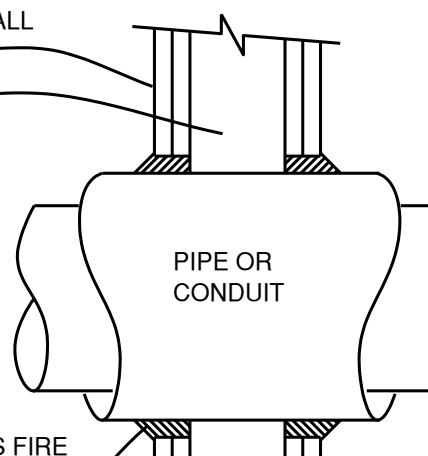
## WATER HEATER SCHEDULE

MARK	TYPE	BASIS	LAYOUT	STORAGE	GAS INPUT	OUTPUT	ELECTRICAL	GPH RECOVERY	TEMP	ELEC	EXPANSION TANK
				GALLONS	MBH	MBH	CAPACITY (KW)	@80 DEG RISE	SETTING	VOLT/PHASE	ACCEPTANCE (GAL)
WH-1	ELECTRIC STORAGE	AO SMITH DEL-50		50	--	--	9.0	46.00	140	208/1	5

1. PROVIDE ARMSTRONG LST EXP TANK AND T&P SET AT 150 PSI DISCHARGE PER PLANS. DO NOT ROUTE INTO DRAIN PAN.
2. PROVIDE CONDENSADE NUE TRALIZER AND CONDENSADE TRAP FOR WATER HEATER. ROUTE CONDENSADE TO FLOOR SINK. SEAL PENETRATION AT PAN WITH CAULKING.
3. PROVIDE INDIVIDUAL FIXTURE MIXING VALVES SET TO 110 DEGREES FOR HAND WASHING FIXTURES.

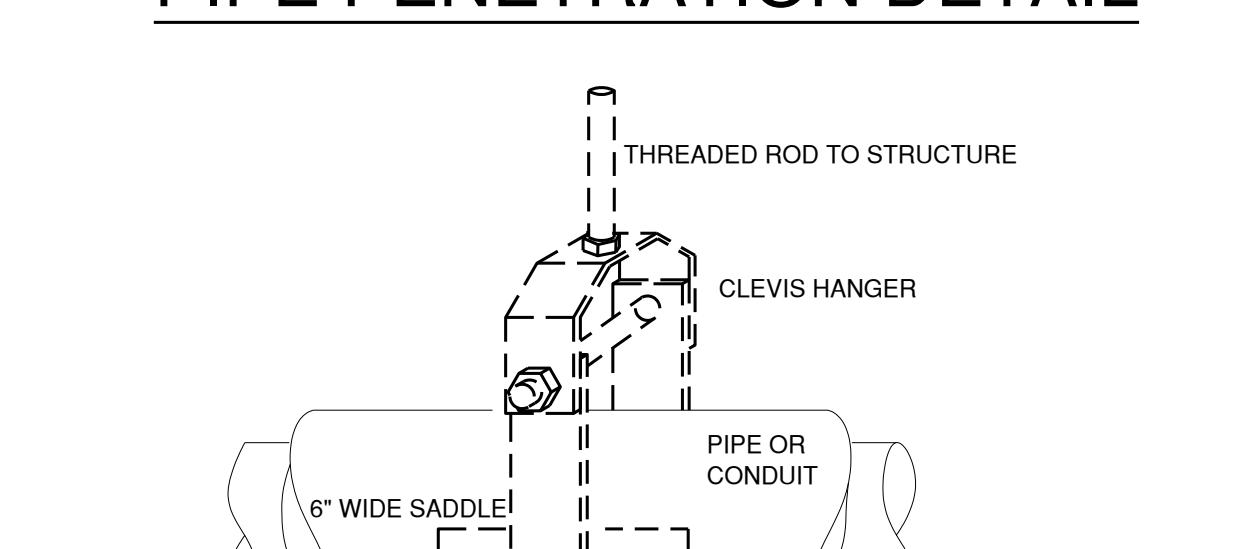


## HUB / FLOOR SINK DRAIN DETAIL



1. THE CAULK IS TO BE FORCED INTO THE ANNUAL SPACE TO THE MAXIMUM EXTENT POSSIBLE FLUSH W/ THE EXTERIOR OF THE PENETRATION SURFACE.
2. FINISH CAULKING W/ A 5/8" MINIMUM BEAD OF CP 25N/S CAULK APPLIED TO THE PERIMETER OF THE CONDUIT/PIPE AT ITS EGRESS FROM WALL ASSEMBLY.
3. THE MAXIMUM ANNUAL SPACE IS NOT TO EXCEED 3/16".
4. INSTALL 3M FIRE STOP ON BOTH SIDES OF THE WALL ASSEMBLY AT PENETRATIONS.
5. THESE RECOMMENDATIONS ARE BASED ON PRODUCT PERFORMANCE PER ASME E-814 (UL-1479) FIRE TEST & UL THROUGH-PENETRATION SYSTEM #147.

## PIPE PENETRATION DETAIL



PIPING HANGERS

1. PROVIDE CLEVIS SUPPORTS WITH BEAM CLAMP, CONCRETE ANCHORS (CONCRETE STRUCTURE), SCREWED BRACKET (WOOD STRUCTURE). PROVIDE HANGER OUTSIDE OF INSULATION WITH RIGID FOAM GLASS INSULATION SECTION AT HANGERS. PROVIDE 16 GAUGE PIPING SADDLE AT EACH HANGER. NO WELDING OR CUTTING OF STEEL STRUCTURAL MEMBERS SHALL BE PERMITTED. LAYOUT BASIS SHALL BE ANVIL 260. ROD SIZE PER CLEVIS HANGER DIMENSIONS FOR EACH PIPE SIZE: 3/8" FOR 2" PIPE OR LESS, 1/2" UP TO 3" PIPE AND 5/8" FOR 4" PIPE.
2. HANGER INSTALLATION FOR HOT WATER PIPING SHALL NOT PREVENT MOVEMENT FOR PIPING EXPANSION. SPACING AS FOLLOWS:

STEEL PIPE: 1/2" TO 1-1/4" - 7'; 1-1/2" TO 2-1/2" - 9'; 3" - 84" - 12'; 6" & 8" - 17'; 10" AND UP - 22'

COPPER PIPE: 1/2" TO 1" - 5'; 1-1/4" TO 2" - 7'; 2-1/

PLAN DATES

REV. SUBMISSION	10/01/2025
PROGRESS SUBMISSION	10/10/2025
BID & PERMIT SUBMISSION	

GENERAL SCHEDULE NOTES  
1. REFER TO ARCHITECTURAL DRAWINGS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT ELEVATIONS OF ALL PLUMBING FIXTURES PRIOR TO INSTALLATION  
2. PROVIDE ALL FIXTURES WITH CHROME PLATED CAST BRASS, ADJUSTABLE 'P' TRAPS WITH CLEANOUT PLUGS TUBING OUTLETS AND WALL FLANGES UNLESS FIXTURE IS FURNISHED WITH AN INTEGRAL TRAP OR IS PROVIDED ONE AS A STANDARD ACCESSORY  
3. PROVIDE ALL FIXTURES WITH CHROME PLATED SUPPLIES WITH ANGLE OR STRAIGHT PATTERN LOOSE KEY STOPS UNLESS FIXTURE IS FURNISHED WITH INTEGRAL STOPS OR STOPS ARE PROVIDED AS STANDARD ACCESSORIES  
4. ALL FLUSH VALVES SHALL HAVE A.D.A. COMPLIANT HANDLES ALL EXPOSED PIPING SHALL BE POLISHED CHROME  
5. COORDINATE ALL CASEWORK MOUNTED FIXTURES WITH BASE CABINET DIMENSIONS PRIOR TO ORDERING FIXTURES. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY IF A CONFLICT EXISTS  
6. ACCESSIBLE WATER CLOSETS SHALL BE OPERABLE FROM THE WIDE SIDE OF THE STALL  
SCHEDULE REMARKS: (NOT ALL REMARKS MAY BE APPLICABLE TO THIS PROJECT)  
Fixture designated to be in compliance with the Americans with Disabilities Act (A.D.A)  
Refrigeration system charged with R-134A refrigerant  
Faucet complete with rigid gooseneck spout, E3-VP aerator and 317 wrist blade handles. Insulate trap and water supplies  
Mounted 3/4" A.F.F. provide short spout w/vacuum breaker and RPZA assembly  
Faucet to have rough chrome finish and shall be mounted 3/4" A.F.F. provide short spout w/vacuum breaker and RPZA assembly  
Faucet ledge shall be punched for single hole faucet specified  
Provide chrome plated tailpiece extension and turn down to allow for knee-space clearance.  
WC-1:Toilet shall be 1.28 gallons per flush 0.5 gallons per flush  
WC-1: Coordinate flush valve rough-in elevation with grab bar mounting height prior to installation  
L-1: Provide Watts Series LFMMV thermostatic mixing valve set at 105°F - ASSE 1070 listed

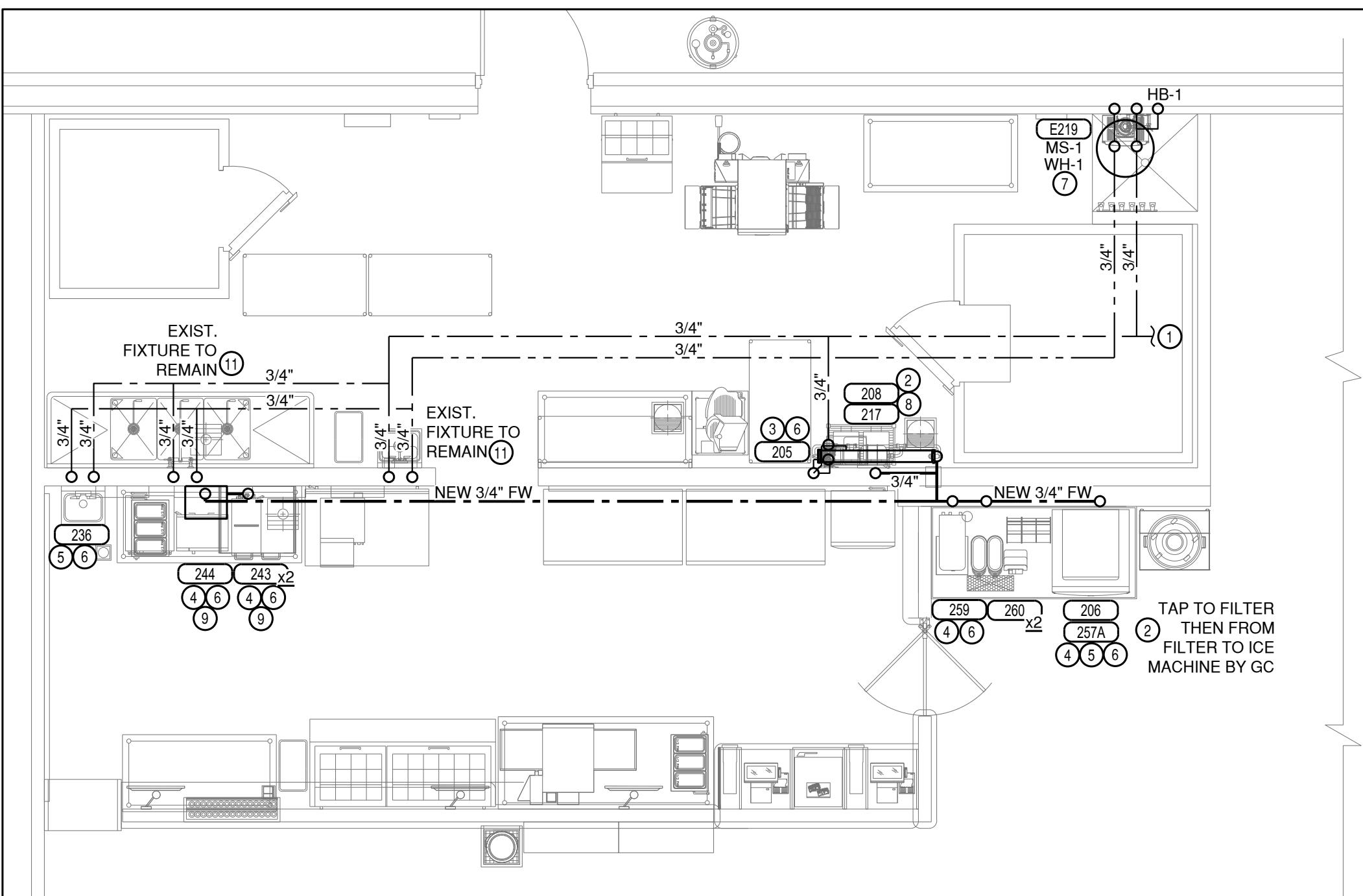
PLANS ARE PREPARED WITH THE SITE INFORMATION PROVIDED TO THE ENGINEER. CONCEALED UTILITY LOCATIONS WILL REQUIRE FIELD VERIFICATION INCLUDING INVESTIGATIVE SAW CUT, SONOGRAPHY OR OTHER UTILITY DETECTION METHODS. PIPING AND FIXTURE ARRANGEMENT SHALL BE MODIFIED AS REQUIRED BASED UPON FIELD VERIFICATION. CONTACT ENGINEER FOR ANY REQUIRED PLAN CHANGES DUE TO FIELD VERIFICATION.  
ENGINEERING PLANS DO NOT GUARANTEE THE EVENTUAL REQUIRED SCOPE FOR UTILITY DISCREPANCIES LOCATED IN FIELD.

GC SHALL VERIFY ALL EQUIPMENT MARKED AS "EXISTING" ARE IN GOOD WORKING CONDITION. GC SHALL PROVIDED AN ALTERNATIVE BID.

DEMOLISH ALL UNUSED PLUMBING ITEMS AND CAP EXISTING UTILITIES BELOW FLOOR AND ABOVE CEILING. FINISH FLOORS, WALL, AND ROOF DECKING TO MATCH SURROUNDING AREAS.

NOTE:  
PLUMBER SHALL VERIFY FREE FLOW OF DRAINAGE AT EACH REUSED DRAIN LINE AND PROVIDE SERVICES TO CLEAN OUT OR CLEAR ANY BLOCKED OR OBSTRUCTED SANITARY LINES.

NOTE:  
CONTRACTOR TO PROCUER ACCESS TO SPACE AND COORDINATE BELOW FLOOR PIPING LAYOUT WITH EXISTING CONDITIONS AND BID ACCORDINGLY FOR ANY ADDITIONAL OFFSETS OR FITTINGS REQUIRED FOR COMPLETE LAYOUT. ALL EXISTING PIPING LOCATIONS- SANITARY AND DOMESTIC ARE ESTIMATED AND MUST BE VERIFIED IN FIELD FOR EXACT LOCATIONS.



PLUMBING DOMESTIC WATER FLOOR PLAN

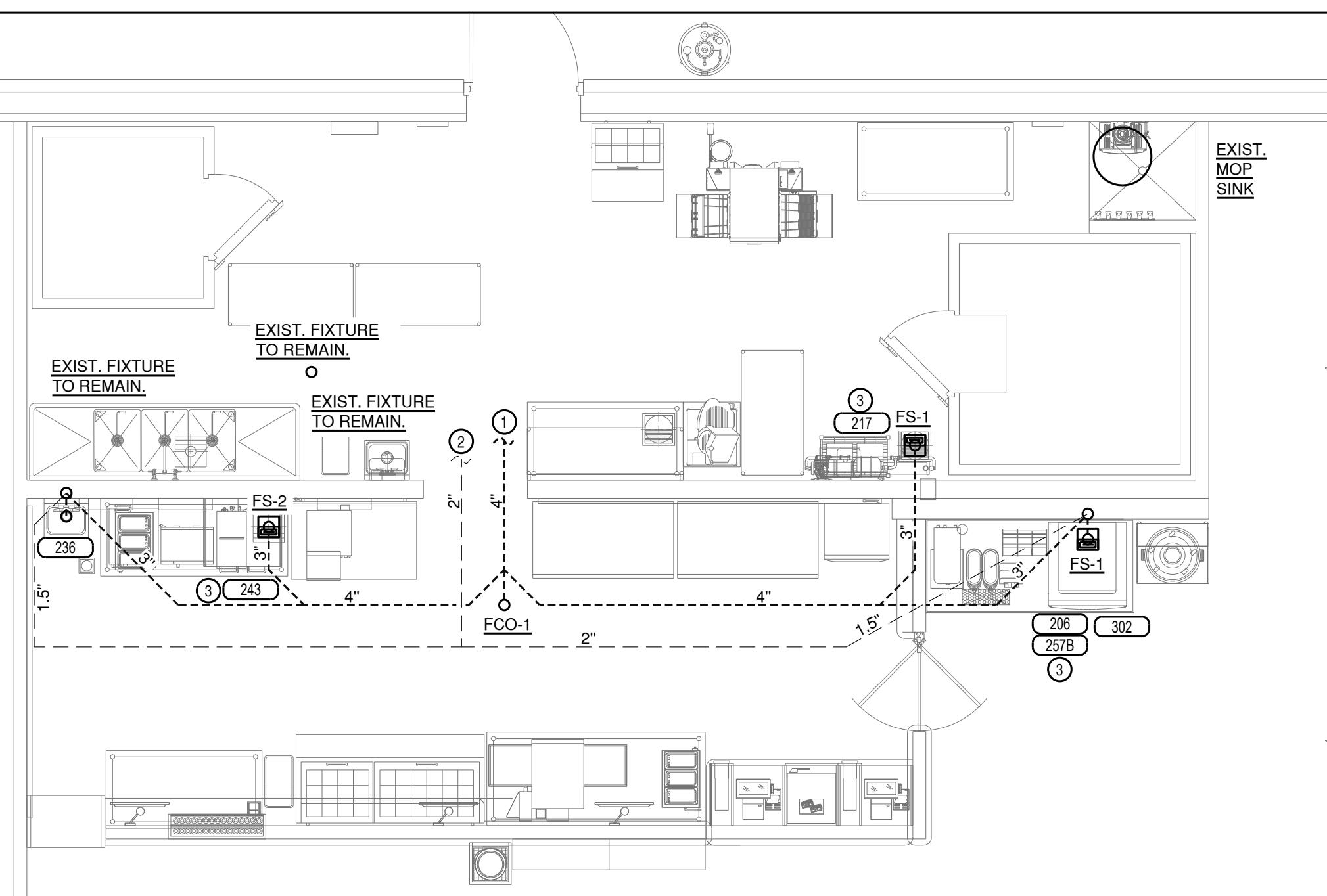
1/4" = 1'-0"

DOMESTIC KEY NOTES:

1. EXTEND AND CONNECT TO EXISTING WATER LINE. GC SHALL VERIFY EXACT LOCATION ON FIELD.
2. NEW 3/4" FW TO BEVERAGE/ICE MACHINE WITH BACKFLOW. REUSE EXISTING BACK-FLOWS WHERE AVAILABLE.
3. NEW 3/4" MAIN TO FEED STEAMER BOOSTER/FILTER WITH BACKFLOW PREVENTER.
4. 3/4" FILTERED WATER DROP TO SOFTENER MODULE THEN 1/2" FROM MODULE TO EACH STEAMER. REFER TO KITCHEN PLANS FOR CONT. PROVIDE BACK-FLOW AT CONNECTION TO SOFTENER AND TO EACH STEAMER.
5. 3/4" DOMESTIC HW/CW TO EACH FAUCET AT KITCHEN FIXTURE. PROVIDE DROP TO BELOW SINK IN WALL WITH CHROME 1/4 TURN BALL VALVE STOPS AND STEEL HOSES TO FAUCET CONNECTIONS- ALL MOUNTING HARDWARE BY PLUMBER. PROVIDE CODE APPROVED BACKFLOW OR VACUUM BREAKER FOR WATER SUPPLIES.
6. PROVIDE MIXING VALVE AT HAND WASH SINK. TEMPERATURE SETTING TO BE AT 110°F.
7. NEW ELECTRIC WATER HEATER.
8. PROVIDE CODE-APPROVED BACK-FLOW PREVENTER.
9. 1/2" TO SOFTENER THEN FROM SOFTENER TO STEAMERS. REFER TO FILTRATION DETAILS ON DRAWING P1.1.
10. WATER FEED TO BEVERAGE/FOOD SERV. EQUIPMENT. VERIFY FILTRATION REQUIREMENTS WITH BEVERAGE VENDOR. FILTERS WITH BACKFLOW BY PLUMBER.
11. RECONNECT EXISTING FIXTURE TO NEW WATER LINE.

LEGEND

GAS	GAS PIPING
—	CW PIPING
—	HW PIPING
—	HOT WATER RECIRCULATION PIPING
—	FILTERED WATER PIPING
	GAS METER



SANITARY WASTE AND VENT FLOOR PLAN

1/4" = 1'-0"

SANITARY KEY NOTES:

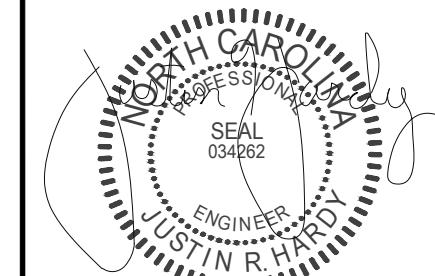
1. CONNECT TO EXISTING GREASE LINE IN THIS AREA. VERIFY EXACT LOCATION IN FIELD.
2. CONNECT TO EXISTING VENT TO ROOF IN THIS AREA. VERIFY EXACT LOCATION IN FIELD.
3. EXTEND FULL SIZE DRAIN FROM EQUIPMENT/APPLIANCE TO FLOOR SINK WITH AIR GAP.R.

LEGEND

—	VENT PIPING
—	GREASE PIPING
—	SANITARY PIPING

65 SADLER ROAD  
DUNN,  
NORTH CAROLINA

SEAL:



SCALE:

PROJECT NO.  
FSDN\_2509

SHEET TITLE:  
PLUMBING PLAN

SHEET NUMBER:  
P10

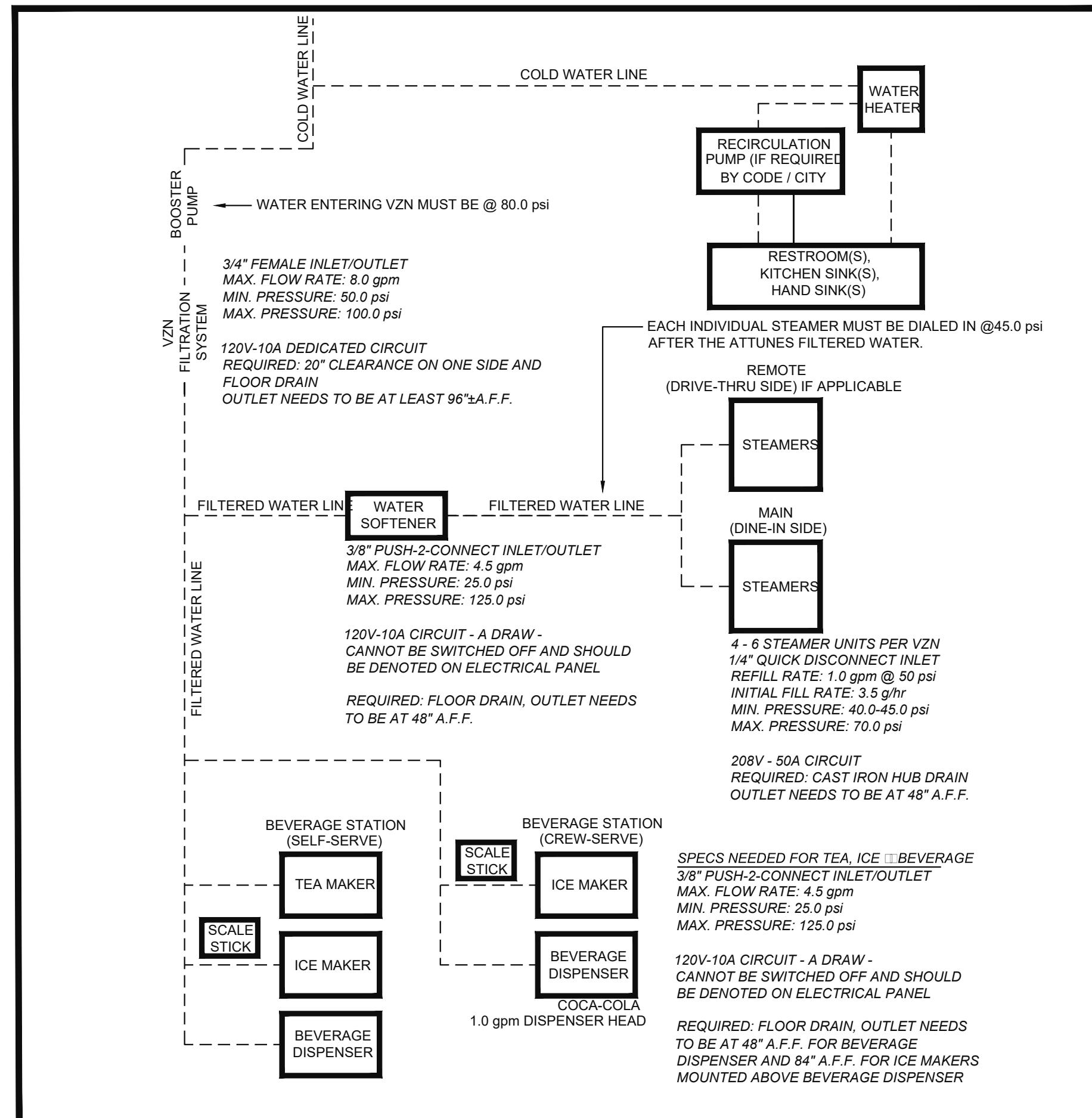
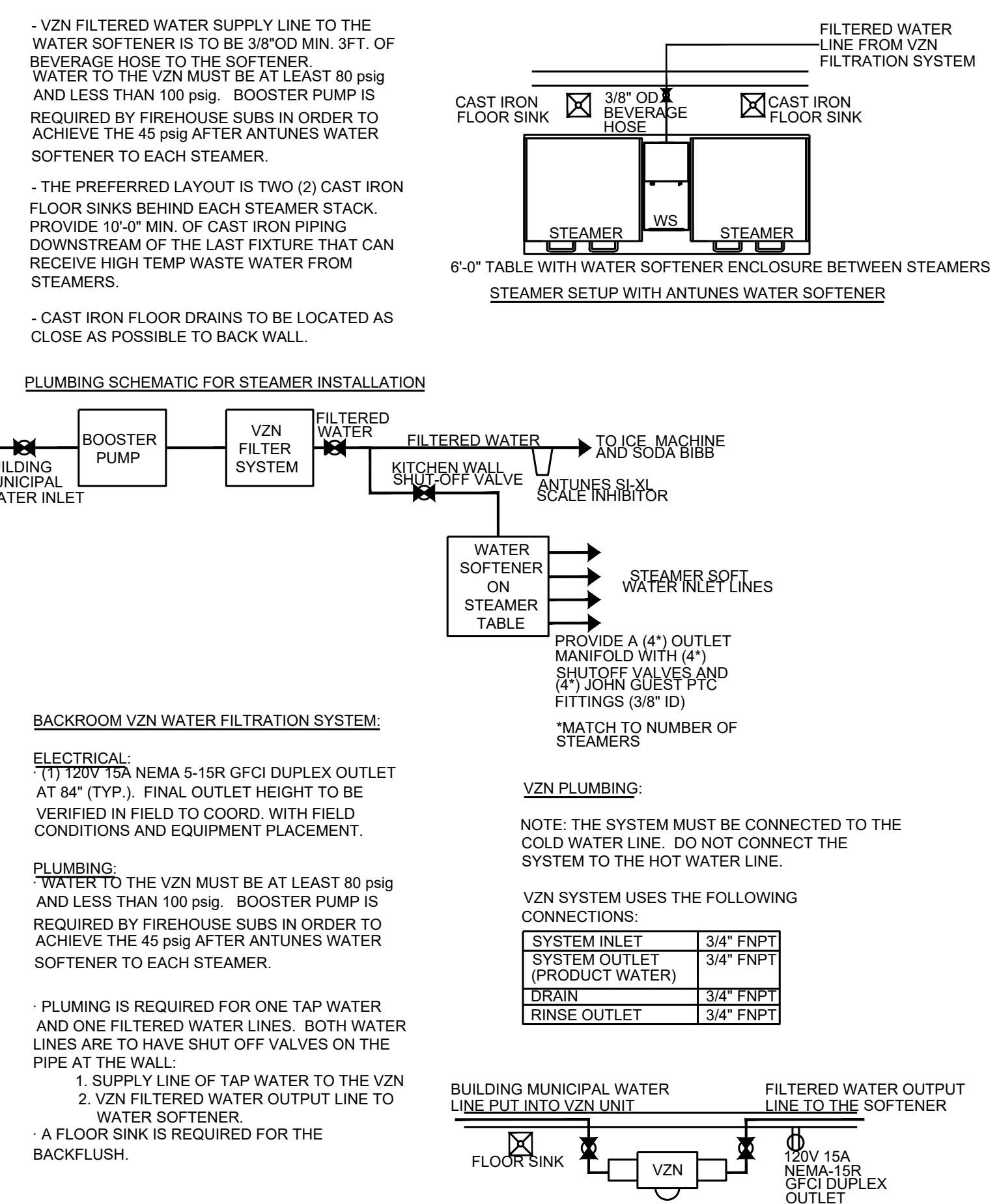
OF

**Storage Tank Water Heater Sizing Calculator**

Developed by the Plan Review Unit of the Environmental Health Section  
NC Division of Public Health

**Establishment Name:** Firehouse-Dunn, NC  
**Address:** 65 Sadler Road Dunn, North Carolina

EQUIPMENT	Description	Number of compartments	(Inches)			GPH CALCULATED
			Length	Width	Depth	
Manual warewashing sink	3 comp. sink	3	16	20	14	44
Sink #2						0
Sink #3						0
Bar sink						0
Sinks are calculated at 75% capacity			<b>Total</b>		44	
Enter type of prep sink and number of sink compartments for each sink		Type of prep sink (vegetable, meat, seafood)	Number of compartments	Gallons Per Hour (GPH)		
Prep sink #1				0		
Prep sink #2				0		
Prep sink #3				0		
Prep sinks are calculated at 5 gallons per compartment			<b>Total</b>		0	
Enter the quantity of equipment		Quantity		Gallons Per Hour (GPH)		
Handwashing sinks		2		10		
Service sink		1		5		
Hose reel				0		
Clothes washer				0		
Enter a description and estimated gallon per hour (GPH) usage for other equipment		Description	Estimated gallons per hour (GPH) usage			
Other equipment				0		
Other equipment				0		
Other equipment				0		
Handwashing sinks and service sinks are calculated at 5 GPH each. Hose reels are calculated at 5 GPH, clothes washers at 15 GPH, other equipment at the usage entered			<b>Total</b>		15	
Enter make, model, and Final Rinse Usage (GPH) for the warewashing machine		Make	Model	Final Rinse Usage (GPH)	Found in "Warewashing Machine Specs" tab below or on manufacturer's spec sheet	Gallons Per Hour (GPH)
Warewashing machine						0
Enter the quantity of pre-rinse units		Quantity		Gallons Per Hour (GPH)		
Pre-rinse				0		
Warewashing machines are calculated at 70% of the final rinse usage specified by the manufacturer. Pre-rinses are calculated at 45 GPH.			<b>Total</b>		0	
<b>Recovery Rate Needed (GPH):</b>				<b>59</b>		



**Recovery Rate (GPH) of Existing or Proposed Water Heater**

Enter the input (BTU or kW) of the existing or proposed water heater  
The Recovery Rate in Gallons Per Hour (GPH) will be calculated

Enter BTU (000's) of existing or proposed gas water heater: .000 BTU

Enter kW of existing or proposed electric water heater: 9 kW

**Calculated Recovery Rates (GPH):**

Gas Water Heater	Electric Water Heater
100°F temperature rise:	0
90°F temperature rise:	37
80°F temperature rise:	41
70°F temperature rise	46
	53

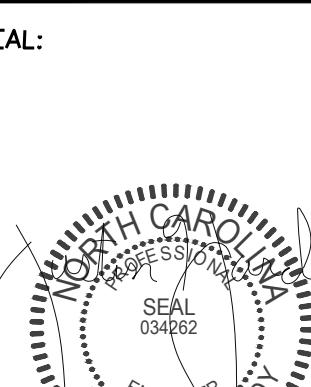
PLANS ARE PREPARED WITH THE SITE INFORMATION PROVIDED TO THE ENGINEER. CONCEALED UTILITY LOCATIONS WILL REQUIRE FIELD VERIFICATION INCLUDING INVESTIGATIVE SAW CUT, SONOGRAPHY OR OTHER UTILITY DETECTIONS METHODS. PIPING AND FIXTURE ARRANGEMENT SHALL BE MODIFIED AS REQUIRED BASED UPON FIELD VERIFICATION. CONTACT ENGINEER FOR ANY REQUIRED PLAN CHANGES DUE TO FILED VERIFICATION. ENGINEERING PLANS DO NOT GUARANTEE THE EVENTUAL REQUIRED SCOPE FOR UTILITY DISCREPANCIES LOCATED IN FIELD.

FOOD SERVICE EQUIPMENT CONNECTION SCHEDULE							
FIXTURE TAG	DESCRIPTION	DRAIN	VENT	CW	HW	SUPPLY ROUGH-IN HT	NOTES
203	UNDER COUNTER DW	5/8"	I.W.	3/4"	--	APPX 18"	3/4" CW WITH CODE-APPROVED CHECK VALVE- DROP TO 3/4" GHT MALE TERMINATION-MFG INCLUDED HOSE. PROVIDE 5/8" RUBBER DISCHARGE HOSE TO FS WITH AIR GAP.
205	STEAMER WATER FILTRATION (VZN)	3/4"	I.W.	3/4"(X2)	--	96"	3/4" WATER IN AND FILTERED WATER OUT WITH BACKFLOW ON SUPPLY BRANCH. PROVIDE HOSE DISCHARGE FROM FILTER FLUSH VALVE TO FLOOR RECEPTOR WITH AIR GAP.
206	ICE MAKER (NO BIN)	1/2"	I.W.	0.5	0.5	78"	ROUTE DRAINAGE TO RECEPTRO WITH AIR GAP
207	ICE MAKER BIN	1"	I.W.	--	--	--	1" I.W.
212	3-COMP SINK	2"	I.W.	1/2"	1/2"	12"	1/2" HW/CW WITH CHECK VALVE BACK FLOW PREVENTERS WITH DROPS TO 1/4-TURN STOPS-SUPPLIES. 1-1/2" DRAIN TO EACH BASIN TO 2" HEADER ROUTED TO RECEPTOR WITH AIR GAP
217	FREESTYLE RACK/PUMP (SODA)	--	--	1/2" FW	--	84"	EQUIPMENT PIECES PROVIDED BY BEVERAGE VENDOR. COORDINATE TERMINATIONS AND CONNECTION DETAILS WITH VENDOR. CO2 BACKFLOW PREVENTER
217A	SODA BAG IN BOX FILTER	--	--	1/2"	--	78"	PROVIDE WITH CODE-APPROVED BACKFLOW PREVENTER
220	MOP SINK FAUCET	--	--	1/2"	1/2"	36"	140 DEG. F WATER SUPPLY
220A	HOSE BIB	--	--	1/2"	1/2"	15"	INTEGRAL VACUUM BREAKER
222	DOMESTIC WATER BOOSTER PUMP	--	--	1-1/4"	--	60"	SERVES WATER PIPING TO FILTERS/SOFTENERS/FOOD SERVICE EQUIPMENT
236	HAND SINK	1-1/2"	1-1/4"	1/2"	1/2"	12"	PROVIDE WITH SINGLE FIXTURE MIXING VALVE SET TO 110 DEG. F
243	STEAMER	1/2"	--	1/2" (SOFTENED)	--	24"	1/2" WATER FEED TO WATER SOFTENER- 1/2" CONNECTION TO EACH STEAMER AFTER SOFTENER. STEAMER DRAIN TO CAST IRON RECEPTRO WITH AIR GAP. PROVIDE WITH CODE APPROVED BACKFLOW VALVE
244	STEAMER WATER SOFTENER	1/2"	--	1/2" FW	--	40"	VZN FILTERED WATER TO SOFTENER WITH CODE APPROVED BACKFLOW PREVENTER
257	FREE-STYLE SODA DISPENSER	--	--	1/2" FW	--	84"	FOR FUTURE ICE MAKER
259	TEA BREWER	--	--	1/2" FW	--	36"	PROVIDE WITH CODE APPROVED BACKFLOW PREVENTER.

- ALL FIXTURES, EQUIPMENT, TRIM, FITTINGS, ETC. SHALL COMPLY WITH LOCAL, STATE AND/OR FEDERAL REGULATIONS AND CODES.
- PROVIDE ALL MOUNTING HARDWARE, ESCUTCHEONS AT PIPE PENETRATIONS AND FITTINGS FOR COMPLETE INSTALLATION. CHROME FINISH BRASS 1/4-TURN ANGLE STOPS AND CHROME SUPPLIES TO FIXTURE. WHERE CONCEALED, STEEL BRAIDED HOSES SHALL BE ACCEPTABLE.
- THE SCHEDULE REFLECTS FIXTURES AND EQUIPMENT WHICH ARE MINIMUM CRITERIA AND SHALL BE THE BASIS FOR CONTRACTORS BASE BID.

**FIREHOUSE** • SUBS

65 SADLER ROAD  
DUNN,  
NORTH CAROLINA



SCALE:  
PROJECT NO.  
FSDN\_2509

SHEET TITLE:  
PLUMBING DETAILS

SHEET NUMBER:  
P1.1  
OF