

McDonald's USA, LLC

INTERIOR RENOVATION CONSTRUCTION DOCUMENTS FOR

1007 FORT SCOTT ST BUTLER, MO 64730

PROJECT INFORMATION:

2019 EOTF MOD C HEARTLAND REGION

ADDRESS:

STREET ADDRESS: 1007 FORT SCOTT ST CITY: BUTLER

STATE: 64730

STATE SITE CODE: 024-0368 NATIONAL STORE NO.: 11654

APPLICANT

ARCHITECT OF RECORD EBI CONSULTING - PAUL ROBERTS EBI CONSULTING — JOSHUA CARRELL

21 B STREET BURLINGTON, MA 01803

BURLINGTON, MA 01803 PHONE: 813-955-2859 PHONE: 707-328-3731 EMAIL: PROBERTS@EBICONSULTING.COM

EMAIL: JCARRELL@EBICONSULTING.COM

21 B STREET

ENGINEER OF RECORD (ELECTRICAL)

EDESIGN GROUP - PAUL HALUM 2415 E. CAMELBACK RD., SUITE 700, PHOENIX, AZ 85016

TEL: 602-553-1191 EMAIL: PAULH@EDESIGNGROUP.ORG

SCOPE OF WORK:

THIS PROJECT CONSISTS OF INTERIOR IMPROVEMENTS. THE SCOPE OF WORK INCLUDES THE FOLLOWING:

- 1. NEW SEATING LAYOUT WITH NEW FINISHES, NEW LIGHTING AND NEW CEILINGS. 2. NEW CUSTOMER SERVICE COUNTER AND SERVICE AREA MODIFICATIONS.
- 3. NEW RESTROOM PLUMBING FIXTURES WITH NEW FINISHES, NEW LIGHTING AND CEILING
- 4. MINOR RESTROOM MODIFICATIONS FOR HANDICAP ACCESSIBILITY COMPLIANCE.

DESIGN CODES:

INTERNATIONAL BUILDING CODE

INTERNATIONAL PLUMBING CODE

INTERNATIONAL MECHANICAL CODE

INTERNATIONAL FIRE CODE

NATIONAL ELECTRICAL CODE

INTERNATIONAL PROPERTY MAINTENANCE CODE

INTERNATIONAL FUEL GAS CODE

BUILDING DATA:

A-2 ASSEMBLY (RESTAURANT) OCCUPANCY CLASSIFICATION:

CONSTRUCTION CLASSIFICATION: ED TYPE 5-B FIRE PROTECTION: NON-SPRINKLERED TOTAL EXISTING BUILDING AREA: 4,150 SQ. FT

EXISTING BUILDING ROOF HEIGHT: 13' - 9"

OCCUPANT LOAD CALCULATIONS FOR PROPOSED CONDITIONS:

AREA TYPE	AREA SIZE	OCCUPANT LOAD CRITERIA	PROPOSED OCCUPANTS	EXISTING OCCUPANTS
DINING (INCLUDING RESTROOMS)	1,800 SQ. FT	NO. OF SEATS	72 (INCLUDING 04 ACCESSIBLE)	68
CUSTOMER WAITING	150 SQ. FT	1 PERSON/15 SQ. FT	10	10
KITCHEN	1,050 SQ. FT	1 PERSON/200 SQ. FT	6	6
ANCILLIARY STORAGE	1,025 SQ. FT	1 PERSON/300 SQ. FT	4	4
BREAK ROOM	125 SQ. FT	1 PERSON/100 SQ. FT	2	2
TOTAL	4,150 SQ. FT		94	90

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REFLECTED CEILING PLAN - PROPOSED A1.1

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ELECTRICAL SYMBOLS, ABBREVIATIONS, DRAWING INDEX, AND SPECIFICATIONS

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IECC INTERIOR LIGHTING COMPLIANCE CERTIFICATE

INTERIOR DECOR DRAWINGS (FOR REFERENCE ONLY)

DECOR DRAWINGS ARE PREPARED BY A SEPARATE VENDOR ENGAGED

DIRECTLY BY McDONALD'S

|-1|COVER SHEET

 $\sqrt{1-1A}$ REQUIREMENTS

FIELD DIMENSION COORDINATION PLAN

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> 1-5 ELEVATIONS

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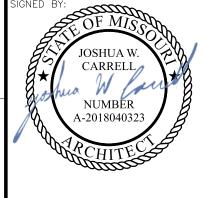
1-8 ISI SPECIFICATIONS

ISI SPECIFICATIONS GC SPECIFICATIONS

NORTH

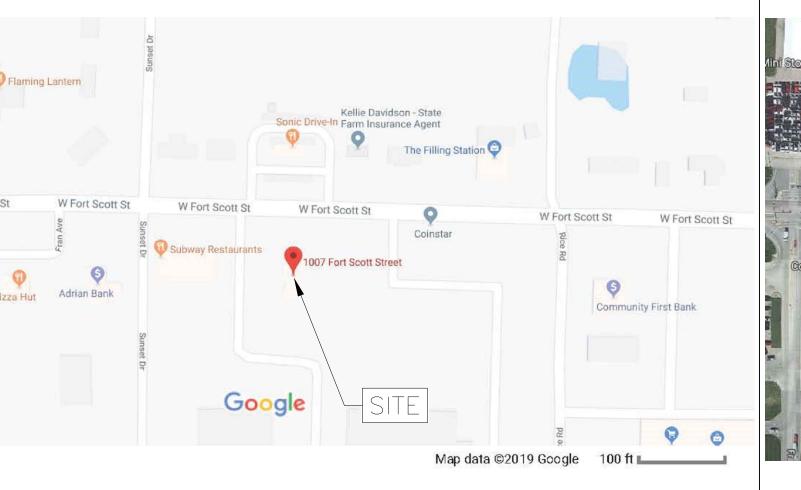
EGRESS PLAN/FURNITURE LAYOUT

Consulting La Augustia



07/25/2019

AME: Joshua W. Carrell ENSE NO: **A-2018040323**



NORTH

VICINITY MAP

NOT TO SCALE







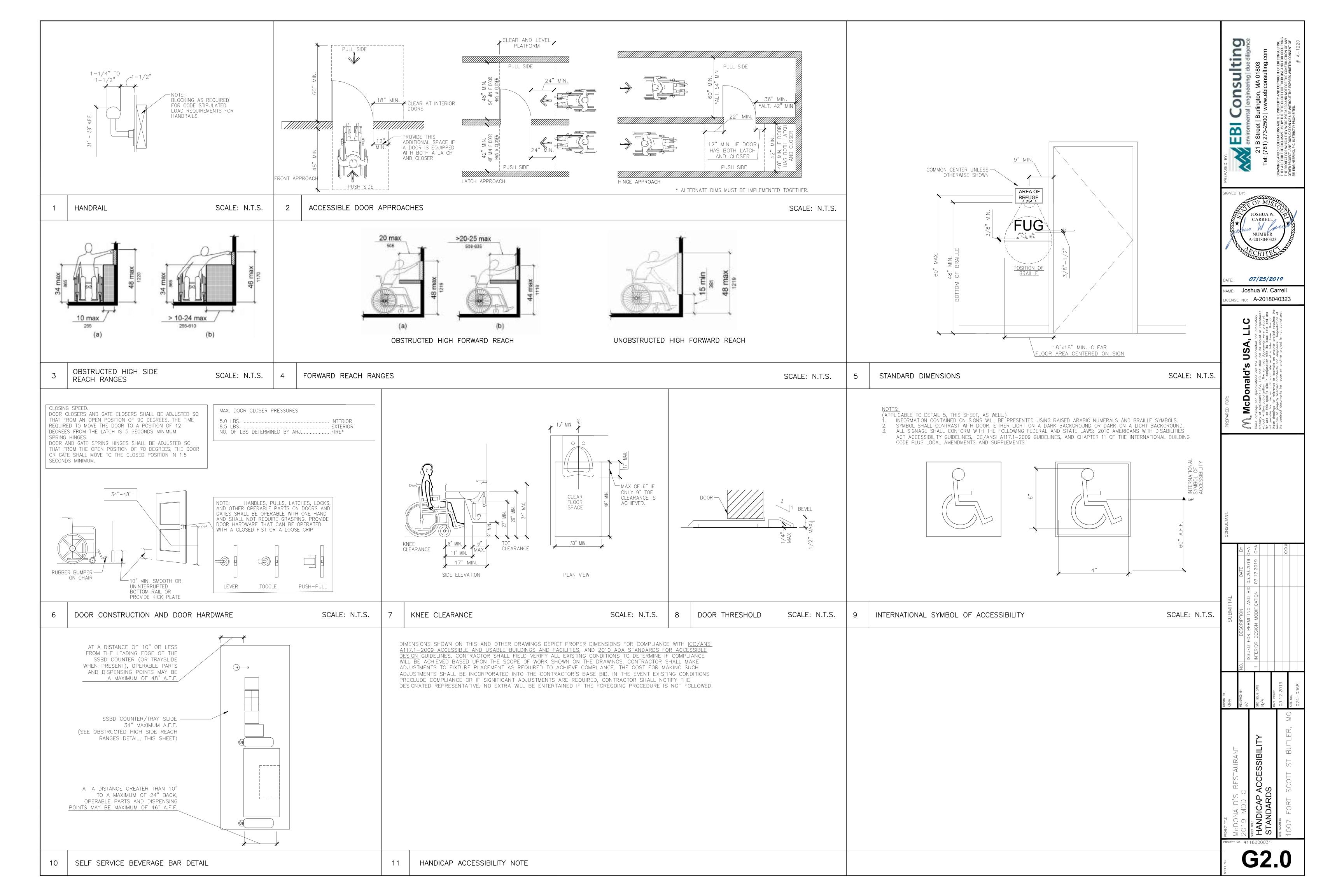
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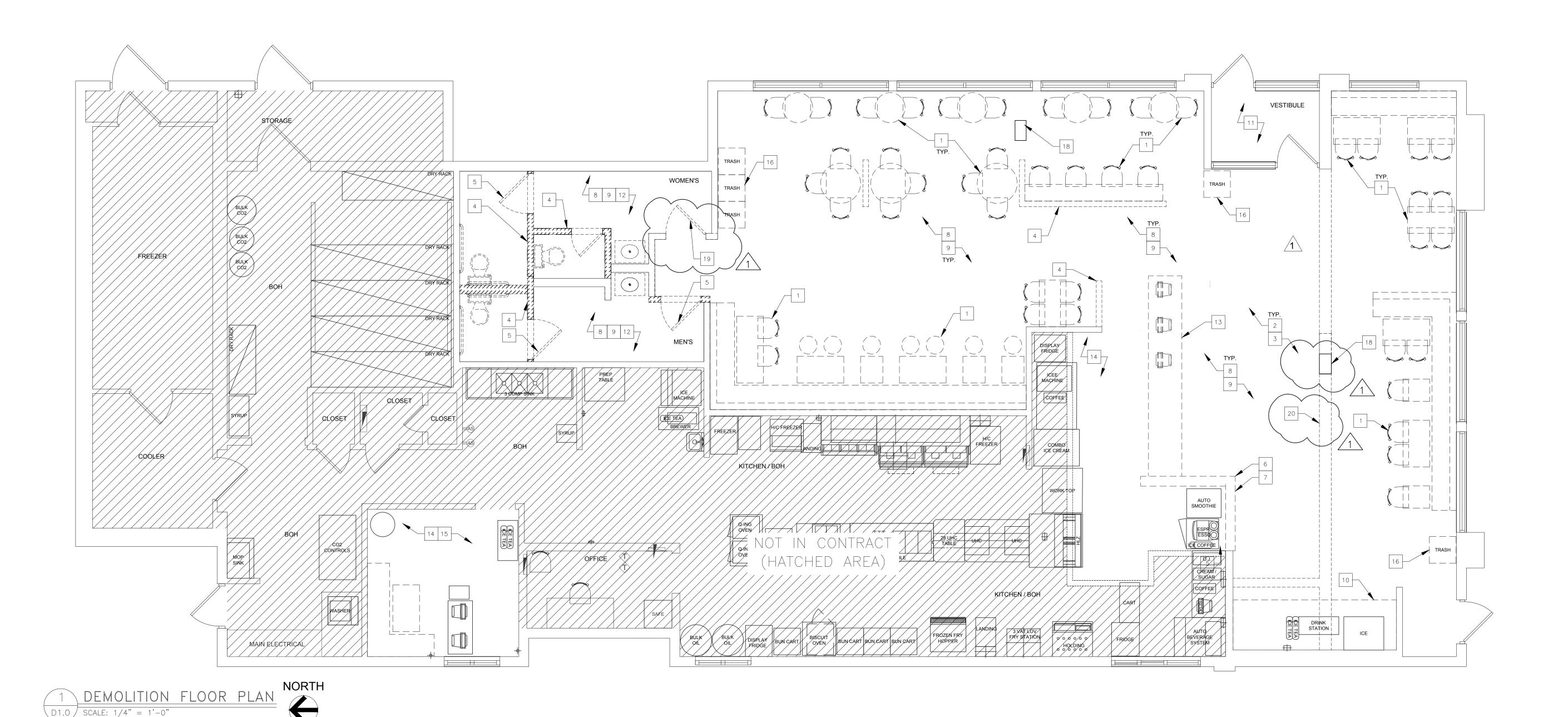
JOSHUA W.

CARRELL₁

NUMBER

A-2018040323





DEMOLITION NOTES

- 1. GENERAL CONTRACTOR (G.C.) AND HIS SUB—CONTRACTORS SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATORY AGENCIES AND THEIR CODES AND REGULATIONS FOR NEW CONSTRUCTION AND DEMOLITION WORK.
- 2. REFER TO GENERAL NOTE 18, DWG G1.0 FOR REQUIREMENTS PERTAINING TO DISCOVERY OF HAZARDOUS MATERIALS.
- THE CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE DESIGNATED REPRESENTATIVE FOR CLARIFICATION AND AMENDMENT AS REQUIRED. COORDINATE LOCATION AND SIZE OF ALL REQUIRED OPENINGS IN EXISTING FLOOR WITH ARCHITECTURAL FLOOR PLAN AND WITH PLUMBING AND ELECTRICAL DRAWINGS.
 COORDINATE PHASING OF ALL DEMOLITION WORK WITH MCDONALD'S REPRESENTATIVE AND WITH STORE
- REPRESENTATIVE. CONTRACTORS STORAGE AND STAGING AREAS ON SITE SHALL BE AS APPROVED BY THE MCDONALD'S AND FRANCHISE REPRESENTATIVES.

 5. REMOVE ALL ITEMS AS INDICATED ON PLANS. SEE SYMBOLS/LEGEND ON DRAWING G1.0. SEE ELECTRICAL AND
- PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION WORK.

 6. DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF DEMOLITION AND SHALL NOT BE LIMITED TO THE CONTENTS OF THE DEMOLITION DRAWINGS. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION TO ASCERTAIN ALL WORK
- REQUIRED TO FACILITATE THE NEW CONSTRUCTION AS DESCRIBED HEREIN.

 7. WALLS OF THIS BUILDING MAY SUPPORT PORTIONS OF THE EXISTING FLOOR OR ROOF FRAMING. G.C. SHALL COORDINATE REMOVALS OF SELECTED PORTIONS OF SUCH WALLS FOR THE PURPOSE OF CREATING NEW MASONRY
- OPENINGS WITH RELATED TRADES.

 8. PRIOR TO REMOVAL OR CUTTING OF OPENINGS THROUGH STRUCTURAL WALLS AND SLABS, CONTRACTOR SHALL PROVIDE ADEQUATE SHORING FOR STRUCTURAL LOADS. SUPPORTS SHALL NOT BE REMOVED UNTIL NEW STRUCTURAL SYSTEM IS IN PLACE. CARE SHALL BE TAKEN SO AS NOT TO DAMAGE OR ALTER ANY EXISTING STRUCTURAL MEMBERS. THE ARCHITECT AND OWNER SHALL BE NOTIFIED IMMEDIATELY IF ANY DAMAGE OCCURS
- 9. DO NOT REMOVE ITEMS SUPPORTING OTHER MEMBERS WITHOUT PROVIDING TEMPORARY OR PERMANENT BRACING AS REQUIRED.

OR IS DISCLOSED DURING DEMOLITION.

- 10. ADEQUATELY PROTECT AND SECURE ALL PENETRATIONS AND OPENINGS IN THE EXTERIOR BUILDING ENVELOPE,

 DUE TO REMOVAL AND/OR CONSTRUCTION FROM ALL MANNER OF FOUL WEATHER AND UNIMPEDED PERSONAL
- 11. ALL ABANDONED UTILITY LINES ARE TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL BACK TO ITS SOURCE. (INCLUDING ALL HANGARS, STRAPS, WIRES, ETC.) OF ANY ELECTRICAL, PLUMBING, GAS LINES, AND MECHANICAL DUCTWORK THAT ARE DISCOVERED AND NOT SCHEDULED FOR REUSE. GC IS RESPONSIBLE FOR REROUTING AND CONTINUATION OF ANY SYSTEM THAT MUST BE RETAINED FOR ADJACENT BUILDING AREAS THAT ARE NOT INCLUDED IN THIS CONTRACT. SEE PLUMBING AND ELECTRICAL DEMO DRAWINGS FOR ADDITIONAL INFORMATION. WHEN ITEMS ARE SHOWN AS DEMOLISHED ALL ASSOCIATED ABANDONED CONDUIT, WIRE HANGERS, STRAPS, AND SUPPORTS MUST ALSO BE REMOVED. GC IS TO REMOVE ANY EXISTING ABANDONED HANGARS, CONDUIT, DUCTWORK, ETC. FOUND ABOVE THE CEILING.
- 12. FLUORESCENT LAMPS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL CODES AND GUIDELINES PRIOR TO THE COMMENCEMENT OF CEILING ASSEMBLY REMOVAL. CARE SHALL BE TAKEN IN THE HANDLING AND DISPOSAL OF ALL LAMPS. IF LAMPS ARE BROKEN, PROPERLY CLEAN UP HAZARDOUS MATERIAL IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL CODES AND GUIDELINES.

- 13 PROVIDE WRITTEN NEW SEQUENCE OF OPERATIONS FOR REMOVAL WORK TO DESIGNATED REPRESENTATIVES FOR REVIEW PRIOR TO START OF WORK. INCLUDE COORDINATION FOR SHUT-OFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED, TOGETHER WITH DETAILS FOR DUST AND NOISE CONTROL PROTECTION, TO ENSURE UNINTERRUPTED CONTINUITY OF ON-GOING OCCUPANT ACTIVITIES.
- 14. PORTIONS OF THE BUILDING (FIRST FLOOR) IMMEDIATELY ADJACENT TO AREAS OF REMOVAL WILL REMAIN OCCUPIED. CONDUCT REMOVAL WORK IN A MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION TO THE OCCUPANTS NORMAL OPERATIONS. PROVIDE MINIMUM OF 72 HOURS WRITTEN ADVANCE NOTICE TO THE DESIGNATED REPRESENTATIVES OF REMOVAL ACTIVITIES THAT WILL AFFECT OPERATIONS AND ONE WEEK WRITTEN ADVANCE NOTICE TO DESIGNATED REPRESENTATIVES FOR ANY REQUIRED SHUTDOWNS OF BASE BUILDING PLUMBING, MECHANICAL, ELECTRICAL, OR OTHER CRITICAL SYSTEMS. OWNER AND DESIGNATED REPRESENTATIVE DO NOT ASSUME RESPONSIBILITY FOR ACTUAL CONDITION OF COMPONENTS OR STRUCTURE TO BE REMOVED.
- 15. PROVIDE TEMPORARY SERVICES DURING INTERRUPTIONS TO EXISTING UTILITIES, AS ACCEPTABLE TO GOVERNING AUTHORITIES.
- 16. GC IS TO PROVIDE TEMPORARY DUST—PROOF PARTITIONS AND BARRIERS TO PROTECT THE PUBLIC AND OTHER OCCUPIED AREAS OF THE BUILDING FROM ANY POTENTIAL CONSTRUCTION HAZARDS OR CONTAMINATION. BARRIERS ARE TO BE METAL FRAME CONSTRUCTION WITH A PAINTED PLYWOOD FACE AND PLASTIC SHEETING. SEE DETAIL 6, DRAWING A4.3 FOR TEMPORARY PARTITION.
- 17. CONTRACTOR SHALL MAKE ALL ARRANGEMENTS FOR WASTE DISPOSAL AND COORDINATE THESE ARRANGEMENTS WITH THE FRANCHISE REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING FROM THE SITE, ALL RUBBLE AND DEBRIS CAUSED BY DEMOLITION, AND DISPOSING OF IT IN A PROPER MANNER OFF PROPERTY.
- 18. GC SHALL PROTECT ALL ITEMS SHOWN TO REMAIN AND REPLACE AND/OR REPAIR ANY DAMAGED ITEMS OR CONSTRUCTION.
- 19. THE GC SHALL COORDINATE THE DISPOSITION OF ALL EXISTING EQUIPMENT AND FIXTURES TO BE REMOVED WITH THE FRANCHISE REPRESENTATIVE BEFORE DISCARDING. ALL ITEMS LISTED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND PROPERLY
- DISPOSED OF.

 20. WHERE WALLS, PARTITIONS, FLOORING, ACCESSORIES OR OTHER TYPES OF CONSTRUCTION ARE REMOVED, PATCH AND REPAIR ADJACENT AREAS AS REQUIRED TO RECEIVE NEW CONSTRUCTION OR FINISHES OR TO MATCH ADJACENT SURFACES. GC TO MAINTAIN ALL EXISTING AND REQUIRED FIRE RATED CONSTRUCTION THROUGHOUT TENANT'S SPACE.
- 21. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGNATED REPRESENTATIVE OF THE DISCOVERY OF ANY STRUCTURAL OR OTHER SIGNIFICANT BUILDING ELEMENTS PREVIOUSLY CONCEALED WITHIN EXISTING CONSTRUCTION THAT IS BEING REMOVED.

KEY NOTES

- 1 EXISTING SEATING TO BE REMOVED, TYPICAL.

 15 CREW ROOM FURNI
 BE COORDINATED W
 OWNER/OPERATOR.
- 2 EXISTING WALLS TO REMAIN, U.O.N.
- 3 EXISTING DOORS TO REMAIN, U.O.N.
- 4 EXISTING NON-BEARING WALL TO BE REMOVED.
- 5 EXISTING DOOR AND FRAME TO BE REMOVED.
- EXISTING McCAFE DECORATIVE DIVIDER TO BE REMOVED. COORDINATE WITH INTERIOR DECOR DRAWINGS.
- 7 EXISTING LOW WALL AT McCAFE TO BE REMOVED. PREP WALL TO RECEIVE NEW FINISH.
- 8 EXISTING FINISH FLOORING AND WALL BASE TO BE REMOVED TO EXISTING SUBFLOOR AND WALL SUBSTRATE. PREP SUBFLOOR AND WALL AS REQUIRED TO RECEIVE NEW FLOORING AND WALL FINISHES PER INTERIOR DECOR DRAWINGS.
- 9 EXISTING WALL TILE TO BE REMOVED TO EXISTING SUBSTRATE.
 PREP EXISTING WALL SURFACE AS REQUIRED TO RECEIVE NEW WALL FINISHES PER INTERIOR DECOR DRAWINGS.
- BEVERAGE COUNTER TO BE REPLACED. ALL EQUIPMENT TO BE REMOVED, STORED AND RE—INSTALLED. REFER TO DECOR DRAWINGS FOR SPECIFICATIONS.
- DEMO ALL FINISHES AT VESTIBULE AND PREP FOR NEW FINISHES.

 11 REF. INTERIOR SYSTEMS DRAWINGS FOR NEW FINISHES.
- REMOVE ALL EXISTING PLUMBING FIXTURES AND ACCESSORIES THROUGHOUT TOILET ROOMS. REFER TO A1.2 FOR ADDITIONAL INFORMATION
- 13 REMOVE EXISTING SERVICE COUNTER
- EXISTING FLOOR AND BASE TO REMAIN.

 14 IF DAMAGED, GC TO REPAIR OR REPLACE.

CREW ROOM FURNITURE AND EQUIPMENT REMOVALS TO BE COORDINATED WITH INTERIOR DECOR DRAWINGS AND

- EXISTING TRASH RECEPTACLE TO BE REMOVED AND REPLACED SEE INTERIOR DECOR DRAWINGS.
- 17 EXISTING KITCHEN EQUIPMENT TO BE RELOCATED. NOT USED
- 18 EXISTING COLUMN TO REMAIN.
- 19 EXISTING DOOR TO BE REMOVED.
 EXISTING FRAME TO REMAIN.

 20 EXISTING SOFFIT TO REMAIN

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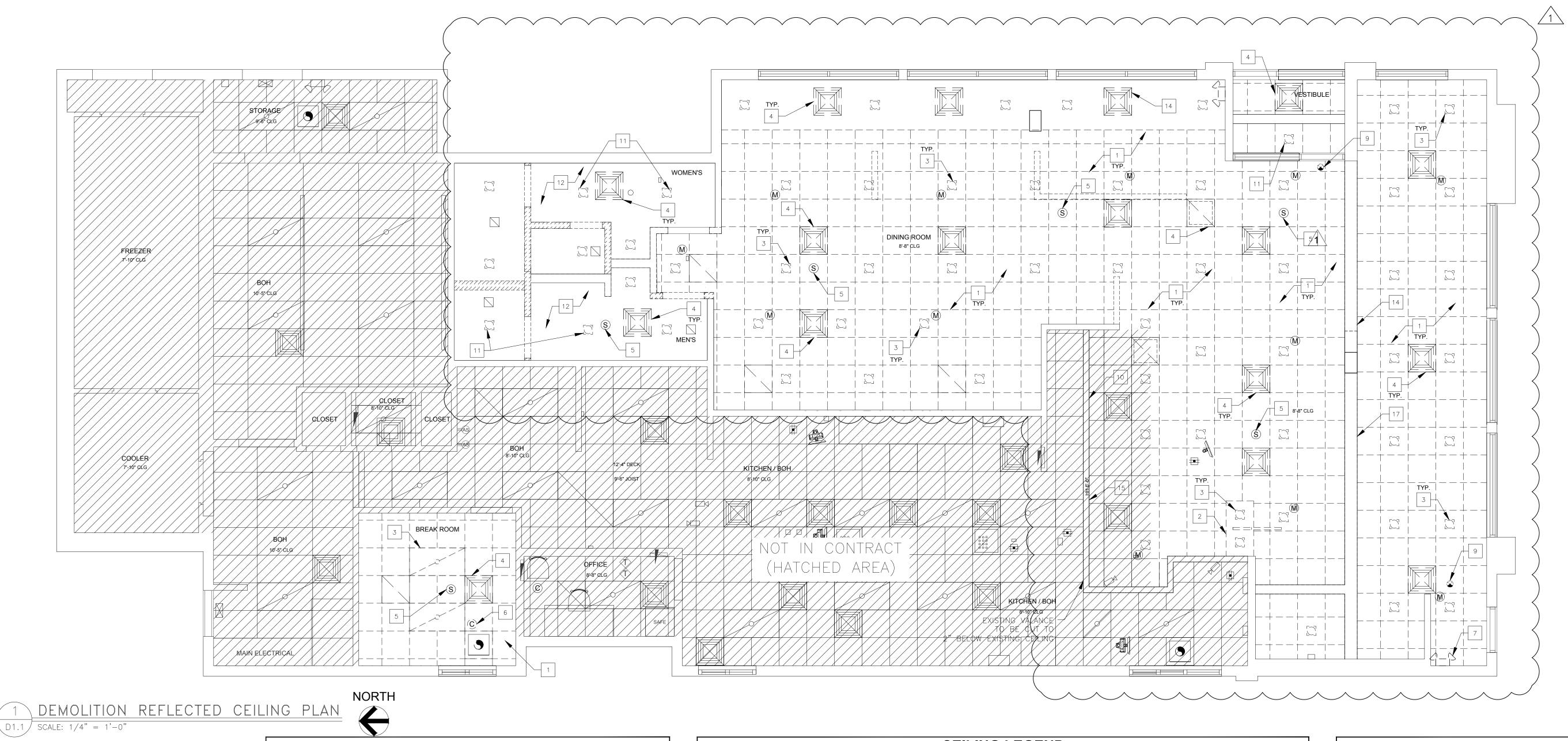
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:: Joshua W. Carrell

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CEILING DEMOLITION NOTES

1. VARIOUS CEILING APPURTENANCES INCLUDING LIGHTING, HVAC SUPPLIES AND RETURNS, FIRE SPRINKLER HEADS, CEILING MOUNTED ELECTRICAL RECEPTACLES, TEMPERATURE SENSORS, CAMERAS, SPEAKERS, ETC. MAY EXIST AND ARE TO BE RELOCATED TO NEW CEILING ASSEMBLIES (VERIFY EXISTENCE IN FIELD).

2. EXACT NUMBER OF CÈILING MOUNTED ITEMS TO BE VERIFIED IN FIELD.

- EXISTING HVAC DUCTWORK TO REMAIN. 4. HVAC SUPPLY AND RETURN AIR ARRANGEMENT AND EXHAUST FAN SYSTEM TO REMAIN AND BE ADAPTED TO NEW OR MODIFIED CEILING ASSEMBLIES. FINAL LOCATIONS OF THESE ITEMS TO BE MINIMALLY ADJUSTED TO ACCOMMODATE NEW CEILING LAYOUTS. 5. IN THE EVENT THAT TOILET ROOM RETURN AIR GRILLES (AS SHOWN ON DRAWINGS) ARE
- FOUND TO BE CEILING MOUNTED EXHAUST FANS, FANS SHALL REMAIN AND BE THOROUGHLY CLEANED. THE CEILING TRIM SHALL BE REPLACED WITH NEW. 6. TEMPERATURE SENSOR, SPEAKERS, CAMERA, EMERGENCY LIGHT, ILLUMINATED EXIT SIGN, AND FIRE ALARM COMPONENT ARRANGEMENTS TO REMAIN AND BE ADAPTED TO NEW OR MODIFIED CEILING ASSEMBLIES. FINAL LOCATIONS OF THESE ITEMS TO BE MINIMALLY ADJUSTED TO ACCOMMODATE NEW CEILING LAYOUTS OR AS OTHERWISE REQUIRED TO ACCOMMODATE ANY SIGNIFICANT CHANGES TO THE FLOOR PLAN LAYOUT. 7. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

CEILING LEGEND

EXISTING ACOUSTICAL TILE CEILING ASSEMBLY TO BE REMOVED.

EXISTING DIFFUSER TO BE REMOVED.



EXISTING RETURN AIR GRILLE TO BE REMOVED.



FLUORESCENT LAY-IN LIGHT FIXTURE TO BE REMOVED.



EXISTING HI-HAT LIGHT FIXTURE TO BE REMOVED.

EXISTING PENDANT LIGHT TO BE REMOVED.

EXISTING SPEAKERS TO BE REINSTALLED IN NEW CEILING.

> EXISTING CAMERAS TO BE REINSTALLED IN NEW CEILING.

<----->

EXISTING EMERGENCY LIGHT TO BE REMOVED.

EXISTING COMBINATION EXIT SIGN/EMERGENCY LIGHT TO BE REMOVED.

(SEE ALSO SYMBOLS/LEGEND ON DRAWING G1.0)

EXISTING EXIT SIGN TO BE REMOVED.

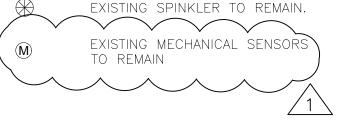
EXISTING HI-HAT LIGHT FIXTURE TO REMAIN AND BE RETROFITTED.



EXISTING COMBINATION EXIT SIGN/EMERGENCY LIGHT

EXISTING EMERGENCY LIGHT TO REMAIN.

EXISTING EXIT SIGN TO REMAIN.



KEYNOTES

- EXISTING ACOUSTICAL TILE CEILING ASSEMBLY TO BE
- ∟ REMOVED. 2 REMOVE EXISTING SOFFIT/CEILING AND SUPPORTING STRUCTURE.
- 3 EXISTING LIGHTING TO BE REMOVED.
- EXISTING SUPPLY DIFFUSER/RETURN AIR GRILLE TO BE REMOVED, CLEANED AND PREPARED TO BE REINSTALLED. COORDINATE WITH NEW CEILING GRID LAYOUT.
- REMOVE AND REINSTALL EXISTING SPEAKER. COORDINATE RE—INSTALLATION WITH NEW CEILING GRID LAYOUT.
- 6 REMOVE AND REINSTALL EXISTING CAMERA. COORDINATE RE—INSTALLATION WITH NEW CEILING GRID LAYOUT.
- 7 EXISTING EMERGENCY LIGHT TO BE REMOVED
- 8 EXISTING COMBINATION EXIT SIGN/EMERGENCY LIGHT TO BE REMOVED. NOT USED
- 9 EXISTING ILLUMINATED EXIT SIGNS TO BE REMOVED AND REINSTALLED
- 10 DIGITAL MENU BOARDS TO BE REMOVED.
- EXISTING LIGHT FIXTURE TO REMAIN AND PREPARED FOR NEW LED RETRO FIT KIT
- COORDINATE NEW FINISH FOR EXISTING CEILING WITH INTERIOR DECOR DRAWINGS.

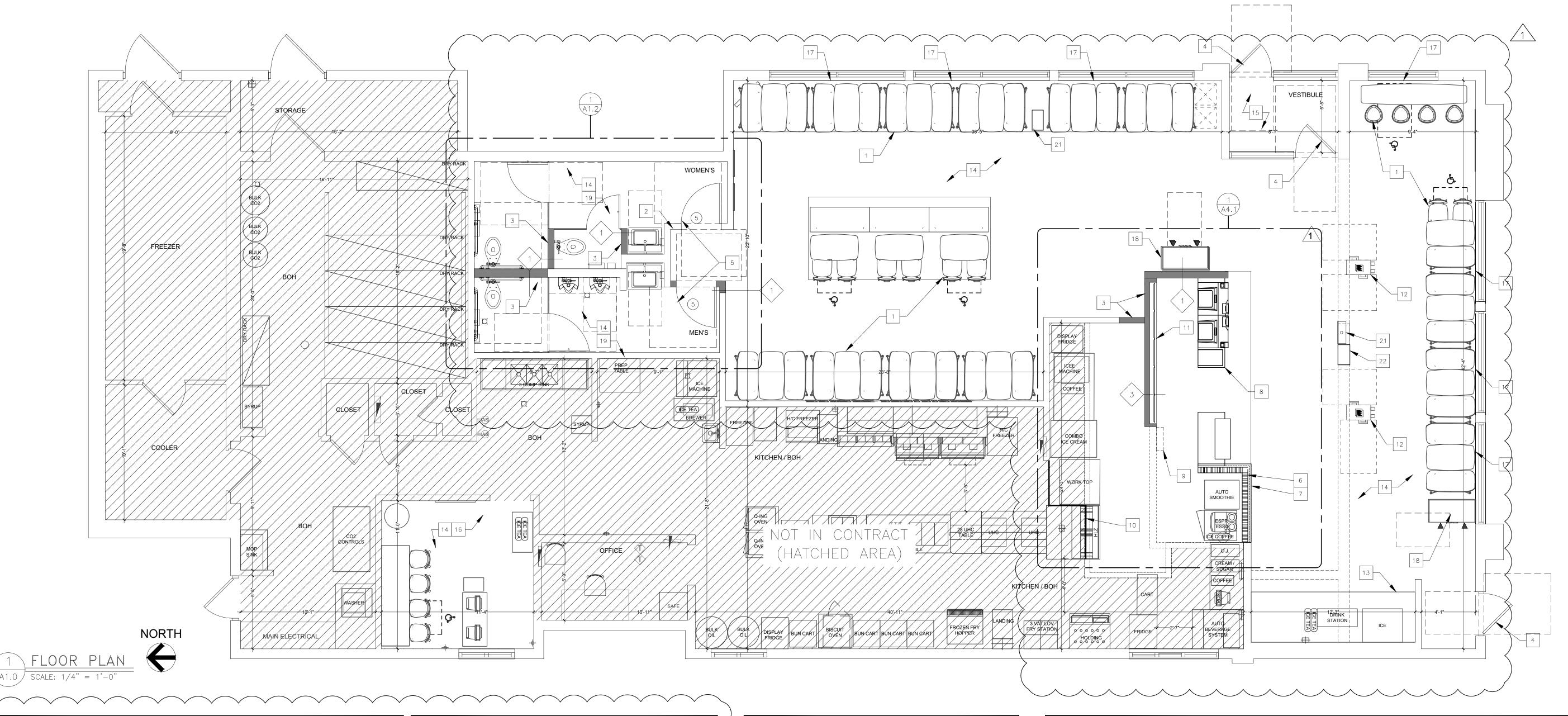
13 EXISTING EMERGENCY LIGHT TO REMAIN. NOT USED

- 14 EXISTING COLUMN TO REMAIN.
- EXISTING VALANCE TO BE CUT TO 2" BELOW EXISTING CEILING.
- 16 EXISTING SPRINKLER TO REMAIN. NOT USED
- 17 EXISTING SOFFIT TO REMAIN



07/25/2019 Joshua W. Carrell

NSE NO: **A-2018040323**



DOOR SCHEDULE												
MARK .	DOOR				FRAME							
IVIAIN	MATERIAL	SIZE	TYPE	MATL.	SIZE							
5	S.C.WOOD W/ LAM.	3'-0"x6'-8"x1 3/4"	В	H.M.	2" JAMB & HEAD							
1. 3. 3. 3. 4.	1 EA PUSH PLATE HAGER 3	1 SNB ALUM PULL SIDE MOUN ⁻ 50S, 4 X 16, US32D, 40"AFF M IDLE, HAGER 33E, 4 x16, US32	OUNTED T									

7. 1 EA FINGER GRD MKIA PUSH SIDE BRN F.SAFE

8. 1 EA FINGER GRD MKIB PULL SIDE BRN F.SAFE

9. 1 EA STEPNPULL PULL SIDE (OPTIONAL)

10. 3 EA DOOR SILENCERS. HAGER

11. UNDERCUT DOOR 3/4"

DOOR TYPES SOLID WOOD CORE DOOR WITH LAMINATE FINISH B (RESTROOM ENTRY)

DOOR NOTES

- 1. ALL EXIT DOORS SHALL BE KEYLESS IN THE DIRECTION OF 2. THE OPENING FORCE OF ALL EXT. PUSH/PULL DOORS
- SHALL NOT EXCEED 8 1/2 LBS. 3. THE OPENING FORCE OF ALL INTERIOR PUSH/PULL DOORS

SHALL NOT EXCEED 5 LBS. 4. PROVIDE PANIC HARDWARE FOR ALL EXTERIOR DOORS AS

NOTED ON THE DOOR SCHEDULE. 5. ALL DOOR HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND. PROVIDE DOOR HARDWARE THAT CAN BE

OPERATED WITH A CLOSED FIST OR A LOOSE GRIP. 6. DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. SPRING HINGES. DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.

HANDICAP ACCESSIBILITY NOTES

G2.0 FOR ADDITIONAL INFORMATION. 2. ACCESSIBLE TABLE TOP 34" MAX. A.F.F. AND 27" MIN. KNEE CLEAR A.F.F. BENEATH TABLE TOP, CONTINUOUS FOR A

I. REFER TO HANDICAP ACCESSIBILITY STANDARDS, DRAWING

- DEPTH OF 19" MIN. BACK FROM LEADING EDGE OF TABLE TOP. PROVIDE MIN. 30" CLEAR WIDTH BELOW TABLE TOP FOR A FORWARD APPROACH TO ACCESSIBLE SEATING
- POSITIONS. 3. GENERAL CONTRACTOR IS RESPONSIBLE FOR ORDERING AND INSTALLING ALL ADA SIGNAGE BASED ON MCDONALD'S ADA SIGNAGE GUIDE. THIS INCLUDES SIGNAGE FOR ALL DOORS IN CUSTOMER AREAS, RESTROOMS, DINING AREA INCLUDING TABLES, SEATING, AND REACH RANGES. CONTACT TOM GIORDANO WITH FORREST PERMA SIGNS - 800-214-8765.
- TOM@FORRESTPERMASIGNS.COM 4. ALL DISPENSERS MUST BE WITHIN COMPLIANT REACH RANGE INCLUDING AT SELF-SERVICE BEVERAGE BAR. GC RESPONSIBLE TO COORDINATE LOCATION OF ANY PERMANENTLY INSTALLED FIXTURES OR DISPENSERS. OWNER/OPERATOR RESPONSIBLE FOR ANY MOVABLE FIXTURÉS OR DISPENSER. SEE SHEET G2.0.

KEY NOTES

- NEW SEATING LAYOUT SEE INTERIOR 'DECOR' DRAWINGS.
- 2 EXISTING WALLS, TYP. U.O.N.
- 3 NEW WALLS, TYP. U.O.N.
- 4 EXISTING DOORS, TYP. U.O.N.
- 5 NEW DOORS, TYP. U.O.N.
- NEW McCAFE DECORATIVE SLAT WALL 6 ASSEMBLY.
- 7 NEW DECORATIVE WALL SEE INTERIOR 'DECOR' DRAWINGS.
- 8 NEW MODULAR FRONT COUNTER
- 9 NEW ORDER READY BOARD CENTERED ON PICKUP COUNTER
- 10 NEW CURATED PANEL
- 11 NEW DIGITAL MENU BOARDS

- NEW KIOSK. COORDINATE INSTALLATION WITH INTERIOR 'DECOR' DRAWINGS AND NEW FLOORING INSTALLATION.
- NEW BEVERAGE COUNTER AND REINSTALLED EQUIPMENT. REFER TO INTERIOR 'DECOR' DRAWINGS.
- NEW INTERIOR FINISH SPEC'S PROVIDED BY THE DECOR VENDOR. REFER TO INTERIOR 'DECOR' DRAWINGS
- NEW VESTIBULE FINISHES. REFER TO INTERIOR 'DECOR' DRAWINGS.
- CREW ROOM NEW FINISHES TO BE COORDINATED WITH INTERIOR 'DECOR' DRAWINGS.
- NEW INTERIOR WINDOW SILL. SEE INTERIOR 'DECOR' DRAWINGS FOR EXTENT.
- NEW TRASH RECEPTACLE W/TRAY RETURN SEE INTERIOR 'DECOR' DRAWINGS. GC TO PROVIDE ALL NEW PLUMBING FIXTURES AND ACCESSORIES, SEE SHEET A1.2 FOR MORE INFORMATION.
- RELOCATED KITCHEN EQUIPMENT. SEE 'KES' DRAWINGS FOR FURTHER INFO. NOT USED.
- 22 DISPLAY SEE DECOR DRAWINGS FOR MORE DETAILS

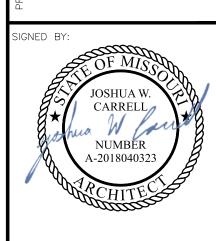
WALL TYPE SCHEDULE

1/2" GYP. BD. (OR 1/2" CEMENT BOARD WHERE CERAMIC TILE FINISH IS PROVIDED) OVER 3-5/8", 20 GA METAL STUDS (OR WIDTH TO MATCH ADJACENT WALL WHERE REQUIRED), AT 16" O.C. WITH 20 GA STUD TRACKS, TOP AND BOTTOM, FROM FLOOR TO STRUCTURE ABOVE. WHERE WALL IS PARALLEL TO ROOF FRAMING MEMBERS, PROVIDE UNISTRUT FRAMING TO RECEIVE TOP TRACK, SIMILAR TO DETAIL 2 ON DRAWING A4.3. WHERE WALL IS PERPENDICULAR TO ROOF FRAMING MEMBERS, ATTACH TOP TRACK TO BOTTOM CHORD OF FRAMING IN A SIMILAR FASHION AS UNISTRUT MOUNTING SHOWN ON DETAIL 2/A4.3, FASTEN BOTTOM STUD TRACK TO FLOOR AT 16" O.C.



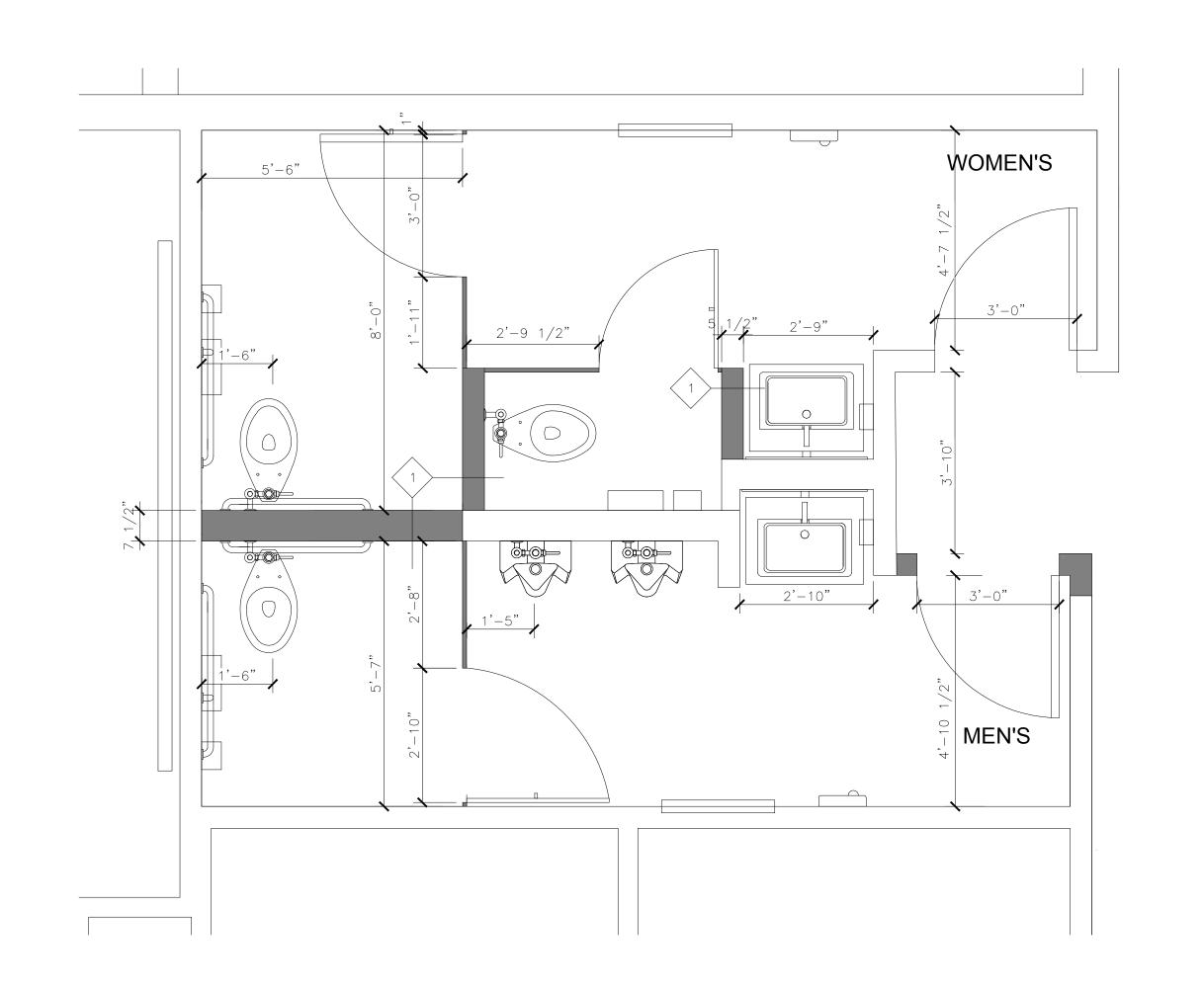
SEE DETAILS 1 AND 2, DRAWING A4.3

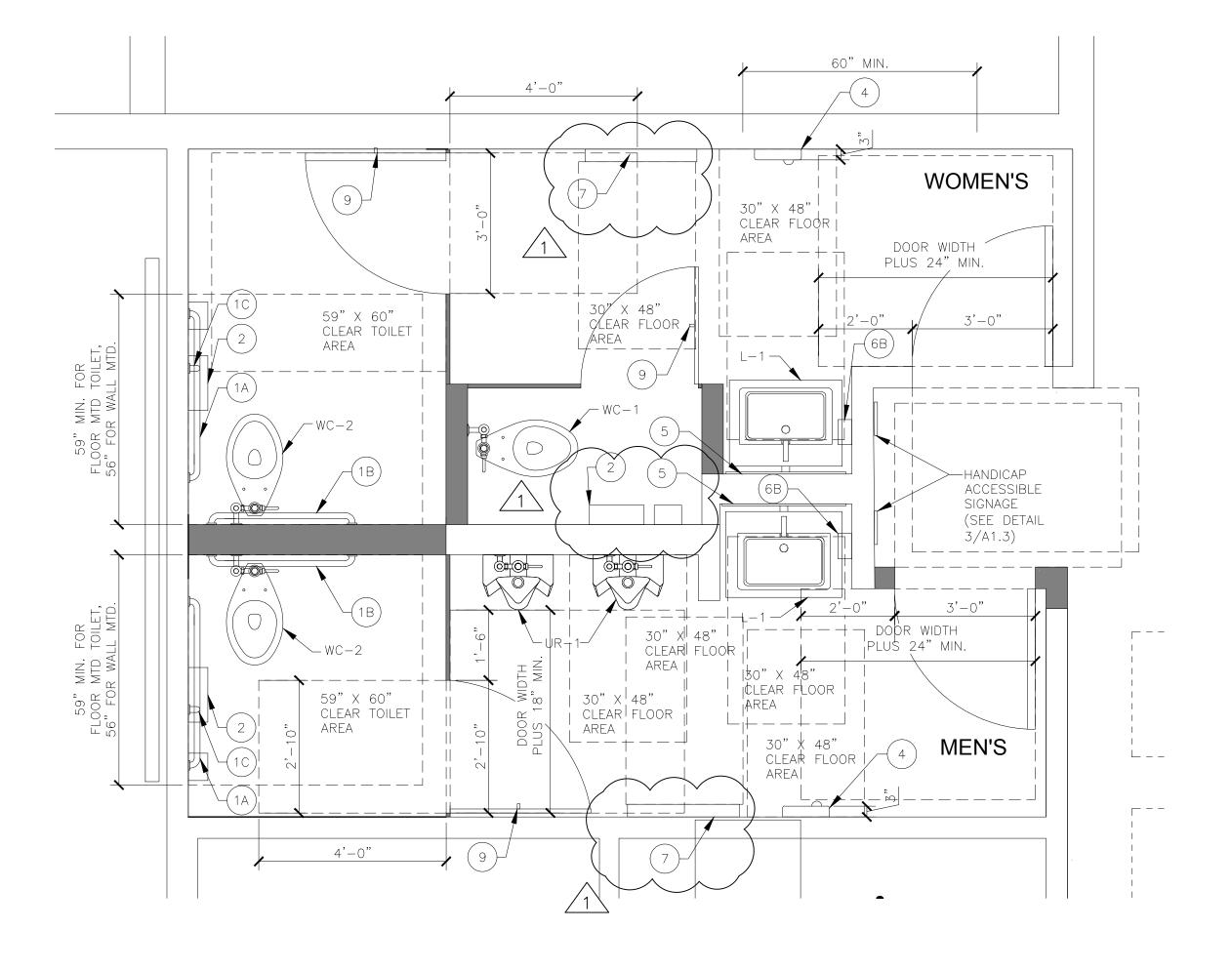
SEE DETAIL 4, DRAWING A4.1



07/25/2019 Joshua W. Carrell

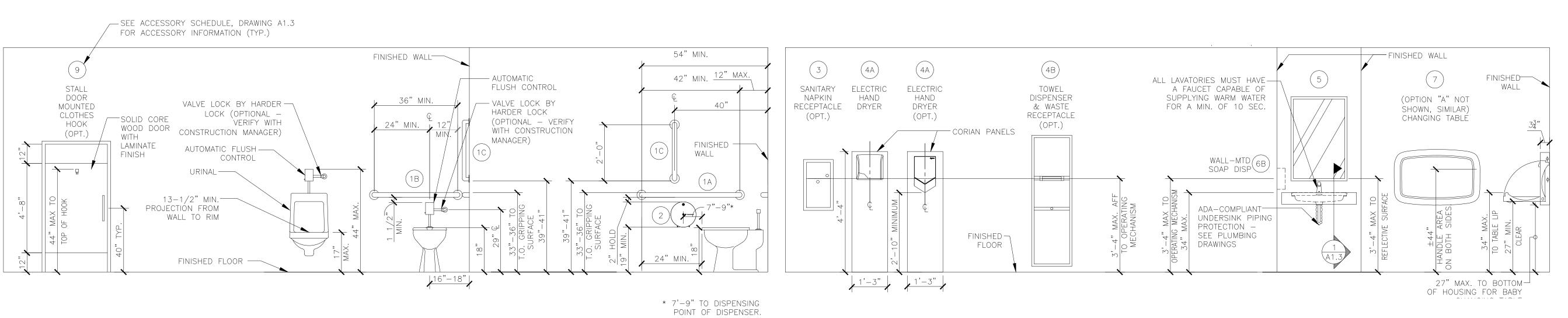
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ENLARGED RESTROOM CLEARANCE AND ACCESSORY PLAN

ENLARGED RESTROOM DIMENSION PLAN



DIMENSIONS SHOWN ON THIS AND OTHER DRAWINGS DEPICT PROPER DIMENSIONS FOR COMPLIANCE WITH ICC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, AND 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN GUIDELINES.
CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO DETERMINE IF COMPLIANCE WILL BE ACHIEVED BASED UPON THE SCOPE OF WORK SHOWN ON THE DRAWINGS. CONTRACTOR SHALL MAKE ADJUSTMENTS TO FIXTURE PLACEMENT AS REQUIRED TO ACHIEVE COMPLIANCE. THE COST FOR MAKING SUCH ADJUSTMENTS SHALL BE INCORPORATED INTO THE CONTRACTOR'S BASE BID. IN THE EVENT EXISTING CONDITIONS PRECLUDE COMPLIANCE OR IF SIGNIFICANT ADJUSTMENTS ARE REQUIRED, CONTRACTOR SHALL NOTIFY THE DESIGNATED REPRESENTATIVE. NO EXTRA WILL BE ENTERTAINED IF THE FOREGOING PROCEDURE IS NOT FOLLOWED.

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07/25/2019

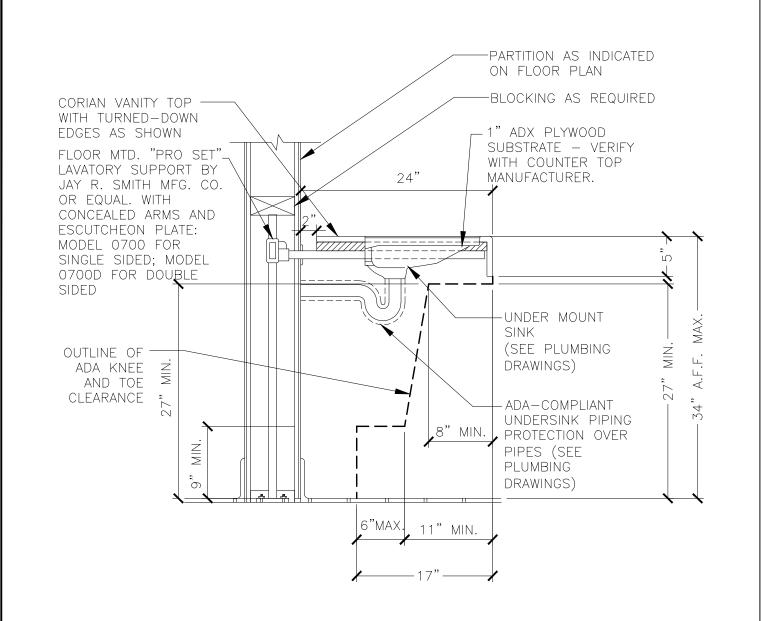
Joshua W. Carrell

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HANDICAP ACCESSIBILITY NOTE

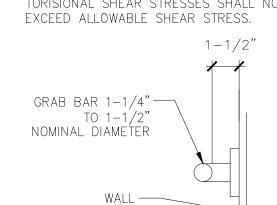
RESTROOM FIXTURE AND ACCESSORY ELEVATIONS



SECTION @ LAVATORY

SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE GRAB BAR MATERIAL.

2. SHEAR STRESS OF A 250LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE GRAB BAR MATERIAL. ITS MOUNTING BRACKET OR OTHER SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORISIONAL SHEAR STRESSES SHALL NOT EXCEED ALLOWABLE SHEAR STRESS.

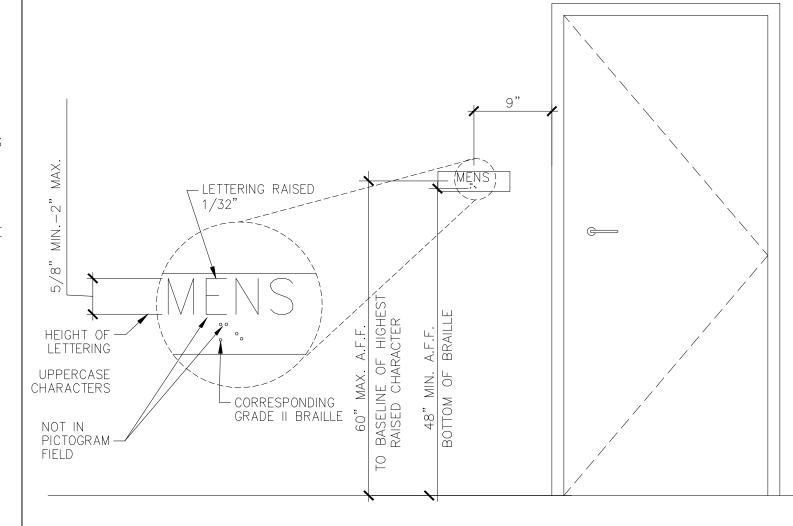


GRAB BAR DETAIL

. BENDING STRESS OF A 250LB POINT LOAD 3. SHEAR FORCE INDUCED IN A FASTENER OR MOUNT FROM A 250LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF FASTENER OR MOUNTING DEVICE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.

> 4. TENSILE FORCE FROM A 250LB POINT LOAD PLUS THE MAX MOMENT FROM A 250LB POINT LOAD SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN FASTENER AND SUPPORT STRUCTURE.

5. A GRAB BAR AND ANY ADJACENT WALL SURFACE SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM 1/8"



RESTROOM I.D.



TOILET PARTITION NOTES

3" HIGH, STAINLESS STEEL

ACCESSORIES.

DOOR.

FULL HEIGHT, CONTINUOUS 'U'-BRACKETS, STAINLESS STEEL

COORDINATE SELECTION WITH DECOR COMPANY

DOORS OPEN AT ANY ANGLE FROM 0° TO 90°.

TO PREVENT DOOR FROM HITTING WALL.

SINGLE COLOR AND PATTERN AS SELECTED FROM MANUFACTURE'S FULL RANGE.

STAINLESS STEEL, CONTINUOUS CAM TYPE, SELF-CLOSING, ADJUSTABLE TO HOLD

EMERGENCY ACCESS WITH COMBINATION RUBBER-FACED DOOR STRIKE AND KEEPER.

COMBINATION STAINLESS STEEL HOOK AND RUBBER-TIPPED BUMPER. COORDINATE

STANDARD, STAINLESS STEEL, RUBBER TIPPED BUMPER AT OUT-SWINGING DOORS

STAINLESS STEEL, HANDICAP ACCESSIBLE, STANDARD PULLS ON BOTH SIDES OF

SIZE TO PREVENT IN-SWINGING DOOR FROM HITTING WALLS OR TOILET

STAINLESS STEEL, HANDICAP ACCESSIBLE, RECESSED LATCH UNIT DESIGNED FOR

OLID PHENOLIC-CORE TOILET PARTITIONS

OVERHEAD BRACED ASSEMBLY

PILASTER SHOES:

PHENOLIC PANEL

LATCH AND KEEPER:

BRACKETS:

FINISH:

HINGES:

COAT HOOK:

DOOR BUMPER:

OVERHEAD BRACING:

ANCHORAGES AND

FASTENERS:

DOOR PULL:

NUMBER STANDARD, CONTINUOUS, EXTRUDED ALUMINUM HEAD RAIL WITH ANTI-GRIP PROFILE, A-2018040323 WITH MANUFACTURER'S STANDARD FINISH. MANUFACTURER'S STANDARD, STAINLESS STEEL, WITH TAMPER PROOF HEADS. 07/25/2019 TOILET PARTITION NOTES Joshua W. Carrell

BACKUP SUPPORT SUPPLIER (SEE NOTE 2) MODEL # (SEE NOTE 3) BOBRICK HUGHES SUPPLY $(1)2\times6 4'-0"$ LONG 1a)| GRAB BAR 42" B-6806X42 (866) 310 - 3576CENTER MOUNTED MCDCOORD@HAJOCA.COM)| GRAB BAR 36" B-6806X36 GRAB BAR 24" B-6806X24 HUGHES SUPPLY SURFACE MOUNTED TOILET TISSUE DISPENSER, BRADLEY (866) 310-3576 PER MANUFACTURER'S JUMBO, SURFACE MOUNTED RECOMMENDATIONS DCOORD@HAJOCA.COM SANITARY NAPKIN HUGHES SUPPLY FRAME WALL OPENING BOBRICK RECEPTACLE, RECESSED (866) 310-3576 PER MANUFACTURER'S B - 353(OPTIONAL) MCDCOORD@HAJOCA.COM RECOMMENDATIONS HUGHES SUPPLY SURFACED MOUNTED Sanitary napkin BOBRICK RECEPTACLE, SURFACE (866) 310-3576 PER MANUFACTURER'S B-254 MOUNTED (OPTIONAL) MCDCOORD@HAJOCA.COM RECOMMENDATIONS HUGHES SUPPLY HAND DRYER, WORLD DRYER SURFACE MOUNTED PER 4A) | ENERGY EFFICIENT MODEL, (866) 310-3576L-971 MANUFACTURER'S SlimDri ADA, ALUMINUM BRUSHED MCDCOORD@HAJOCA.COM PTION CHROME RECOMMENDATIONS, PROFILE DEPTH: 3-15/16" HAND DRYER. HUGHES SUPPLY SURFACE MOUNTED | ENERGY EFFICIENT MODEL (866) 310-3576 PER MANUFACTURER'S AIRBLADE V TIÓN | ADA, SPRAYED NICKEL RECOMMENDATIONS MCDCOORD@HAJOCA.COM √ TOWEL DISPENSER & WASTE HUGHES SUPPLY FRAME WALL OPENING BOBRICK RECEPTACLE, COMBINATION, (866) 310-3576 PER MANUFACTURER'S B - 3974RECESSED (OPTIONAL) MCDCOORD@HAJOCA.COM RECOMMENDATIONS HUGHES SUPPLY SURFACE MOUNTED BOBRICK MIRROR, CHANNEL FRAME (866) 310-3576 PER MANUFACTURER'S B-165 2436 MCDCOORD@HAJOCA.COM RECOMMENDATIONS HUGHES SUPPLY SOAP DISPENSER, COUNTER COUNTER MOUNTED (866) 310-3576 MOUNTED, 6" SPOUT PER MANUFACTURER'S B-82216 MCDCOORD@HAJOCA.COM RECOMMENDATIONS (OPTIONAL) HUGHES SUPPLY SURFACE MOUNTED SOAP DISPENSER, BOBRICK (866) 310-3576 PER MANUFACTURER'S B-2112WALL-MOUNTED MCDCOORD@HAJOCA.COM RECOMMENDATIONS HUGHES SUPPLY BABY CHANGING TABLE, SURFACE MOUNTED KOALA KARE HORIZONTAL, SURFACE MOUNT, (866) 310-3576 PER MANUFACTURER'S KB200-01 ADA COMPLIANT, ALL PLASTIC MCDCOORD@HAJOCA.COM RECOMMENDATIONS BABY CHANGING TABLE, HUGHES SUPPLY SURFACE MOUNTED KOALA KARE HORIZONTAL, SURFACE MOUNT, (866) 310-3576 PER MANUFACTURER'S KB110-SSWM TION ADA COMPLIANT, PLASTIC W/ MCDCOORD@HAJOCA.COM RECOMMENDATIONS S/S VENEER 8) DIAPER CONTAINER (OPTIONAL) N/A BY OWNER HUGHES SUPPLY SURFACE MOUNTED BRADLEY 9) CLOTHES HOOK (866) 310-3576 PER MANUFACTURER'S 917 MCDCOORD@HAJOCA.COM RECOMMENDATIONS CONTINUOUS TREATED PLYWOOD ACCURATE TOILET PARTITION (OVERHEAD BACKING PER MANUFACTURE'S PARTITIONS O) BRACED TYPE) SOLID RECOMMENDATIONS (SEE TOILET CORPORATION PHENOLIC-CORE PANELS PARTITION NOTES, THIS SHEET)

) SEE 3/A1.2 FOR ACCESSORY MOUNTING HEIGHTS 2) SELECT ONE ITEM FROM ITEM GROUPS 4 & 6, VERIFY WITH AREA CONSTRUCTION MANAGER. 3) CUT BACK-UP SUPPORTS BETWEEN STUDS SO FACE OF SUPPORT IS FLUSH W/WALL STUD

MARK	FIXTURE TYPE	DESCRIPTION
		WATER CLOSET: TOTO #CT705EN#01 OR ZURN Z5655-BWL1 1.28 GPF
WC-1	WATER CLOSET	FLUSH VALVE: TOTO TET1LAX32#CP OR ZURN ZTR6200EV-LL 1" I.P.S., 1½" TOP SPUD
		FLUSH VALVE OPERATION: SENSOR SEAT: BEMIS MODEL 2155CT
		WATER CLOSET: TOTO #CT705ELN#01 OR ZURN Z5665-BWL1 1.28 GPF
WC-2	WATER CLOSET HANDICAP ACCESSIBLE	FLUSH VALVE: TOTO TET1LAX32#CP OR ZURN ZTR6200EV-LL 1" I.P.S., 1½" TOP SPUD
		FLUSH VALVE OPERATION: SENSOR SEAT: BEMIS MODEL 2155CT
		LAVATORY: KOHLER K-2882-0 OR TOTO LT191G
		LAVATORY: CORIAN COUNTER BY GC, APPROVED ADA HEIGHT
L-1	LAVATORY HANDICAP ACCESSIBLE	FAUCET: TOTO TEL101-D10ET#CP OR ZURN Z6950-XL-S-10S-LL-TMV-1 1.0 GPM (0.17 GAL/10 SEC CYCLE)
		ACCESSORIES: TRUEBRO LAVGUARD2 MODEL #102 E-Z JAY R. SMITH "PROSET" MODEL 0700 SINGLE SIDED OR MODEL 0700D DOUBLE SIDED FLOOR MOUNTED LAVATORY SUPPORT WITH CONCEALED ARMS AND ESCUTCHEON PLATES.
		LAVATORY: AMERICAN STANDARD LUCERNE WALL HUNG ADA HEIGHT
L-2	LAVATORY HANDICAP ACCESSIBLE	FAUCET: TOTO TEL101-D10ET#CP OR ZURN Z6950-XL-S-10S-LL-TMV-1 1.0 GPM (0.17 GAL/10 SEC CYCLE)
	NOCESTIBLE	ACCESSORIES: TRUEBRO MODEL #102 E-Z LAVGUARD2 JAY R. SMITH "PROSET" MODEL 0700 SINGLE SIDED OR MODEL 0700D DOUBLE SIDED FLOOR MOUNTED LAVATORY SUPPORT WITH CONCEALED ARMS AND ESCUTCHEON PLATES.
		URINAL: TOTO UT445U#01 0.125 GPF OR ZURN Z5755U 0.125 GPF
UR-1	URINAL HANDICAP ACCESSIBLE	FLUSH VALVE: TOTO TEU1LAX12#CP OR ZURN ZTR6203-ULF-LL 34" I.P.S. 1" TOP SPUD
		FLUSH VALVE OPERATION: SENSOR

1) PLUMBING CONTRACTOR SHALL PROVIDE GRID DRAIN, P-TRAP AND VALVE STOPS FOR ALL SINKS & LAVS. 2) PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER URINAL SUPPORT.

RESTROOM FIXTURE SCHEDULE

RESTROOM ACCESSORY SCHEDULE

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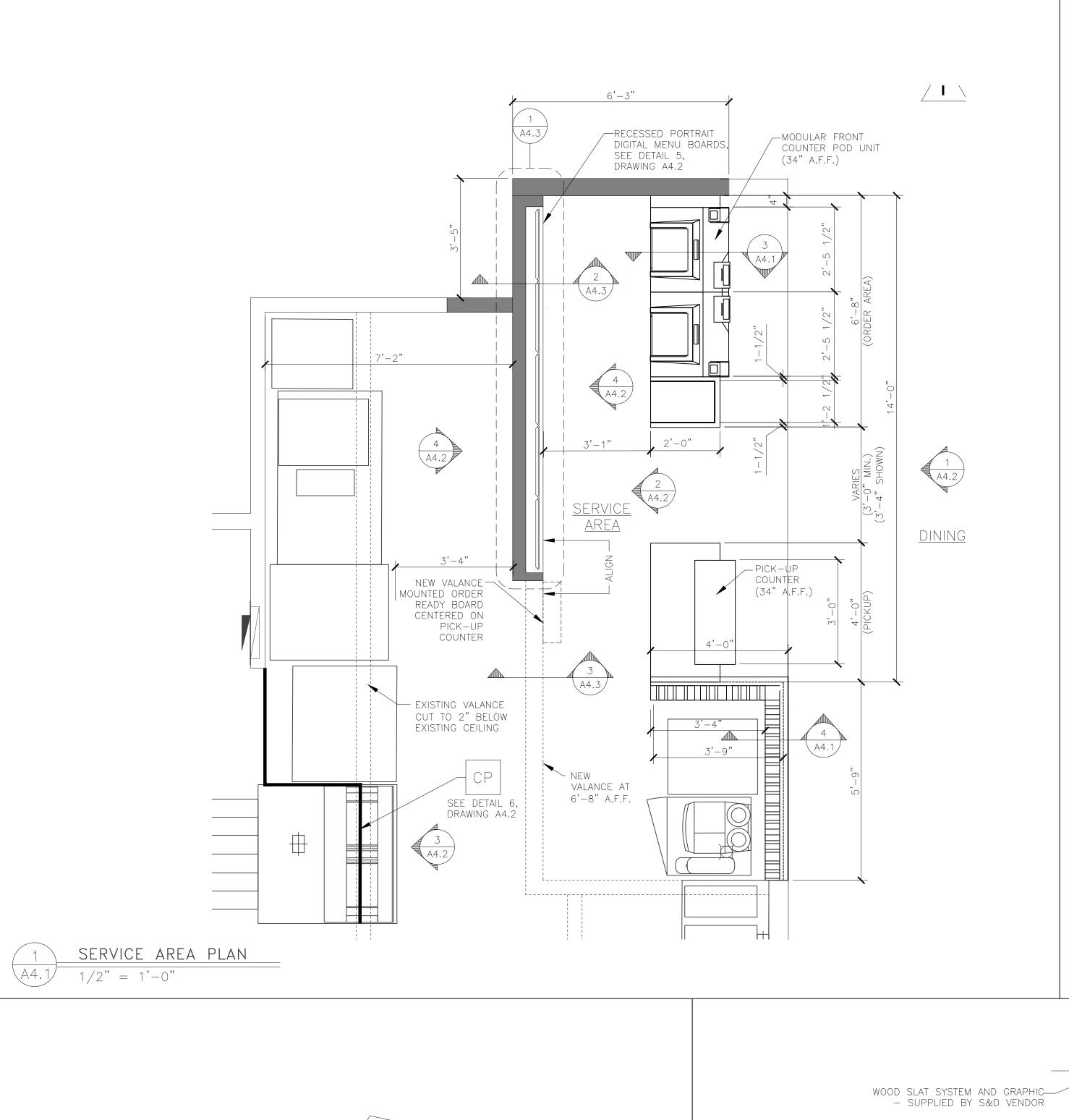
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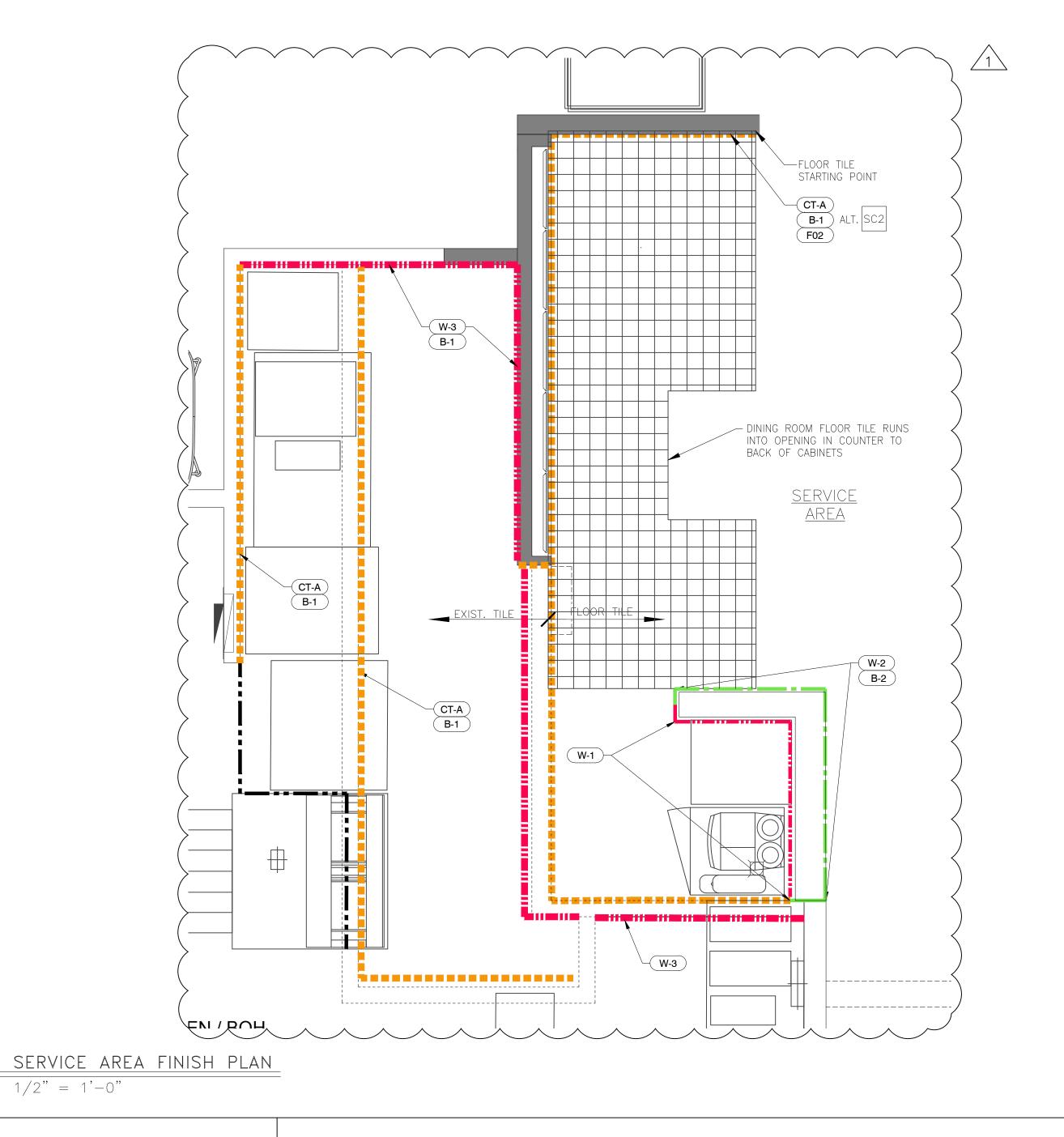
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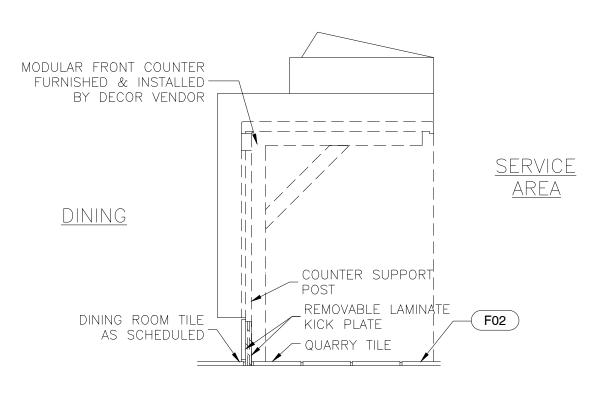
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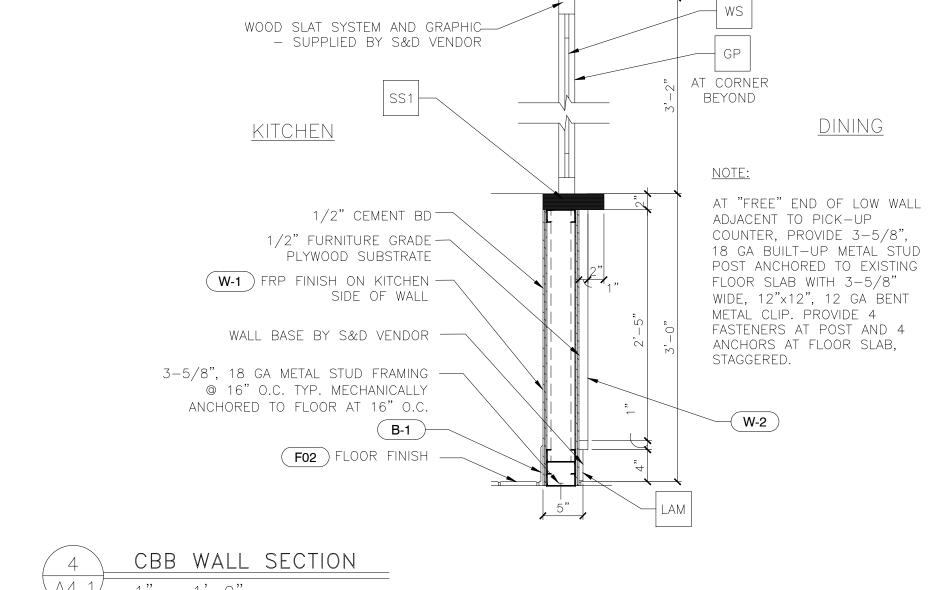
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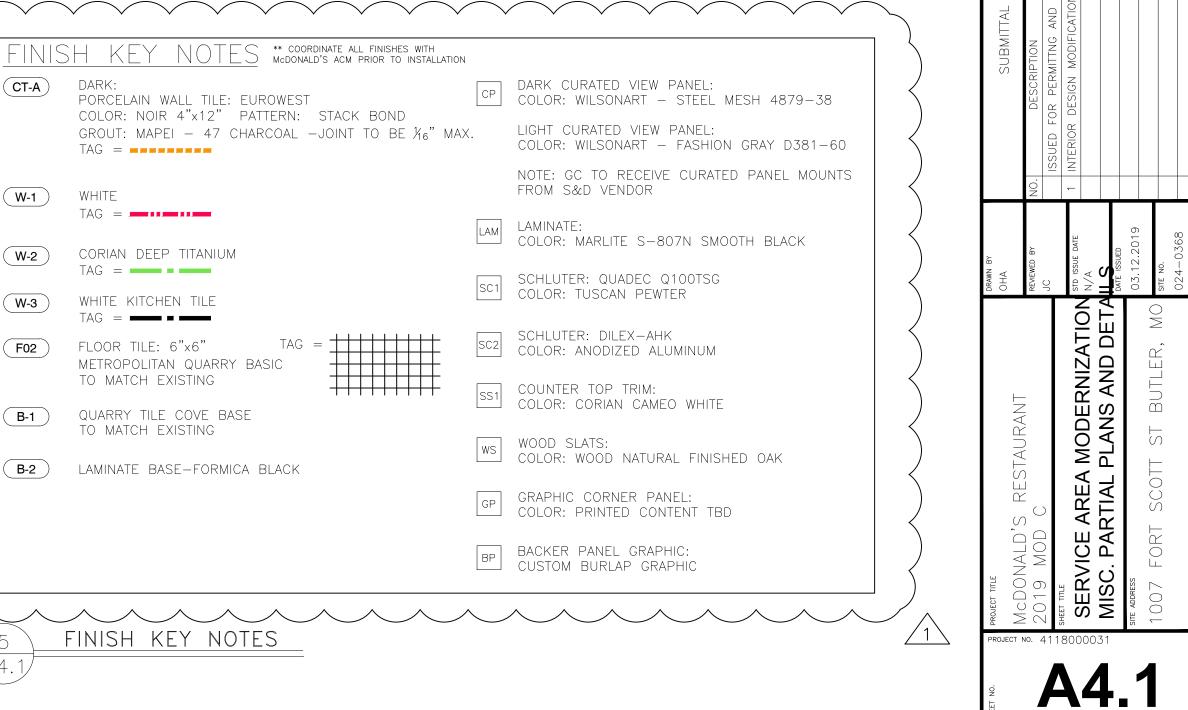
RESTROOM [SCHEDULES











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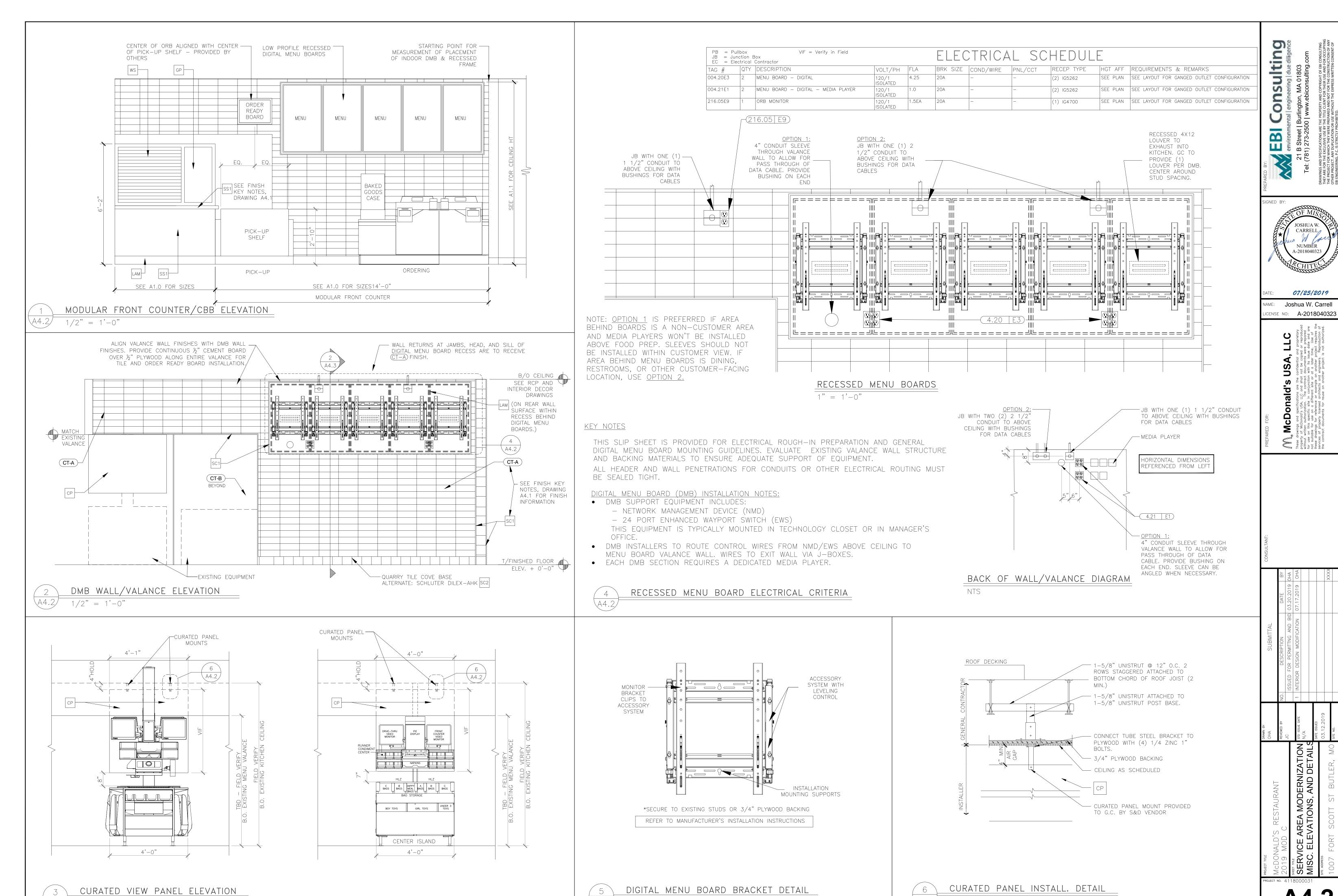
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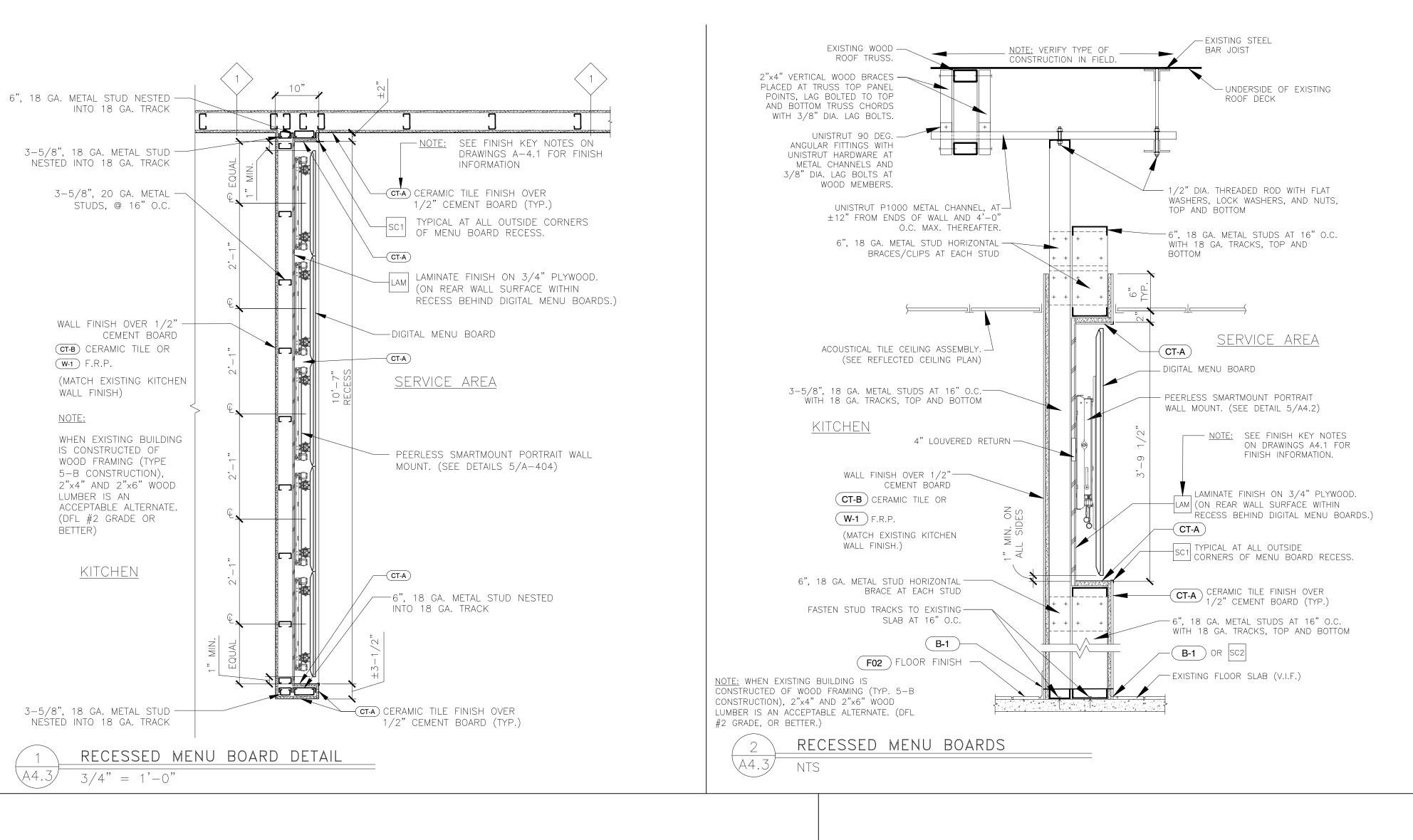
MODULAR FRONT COUNTER SECTION

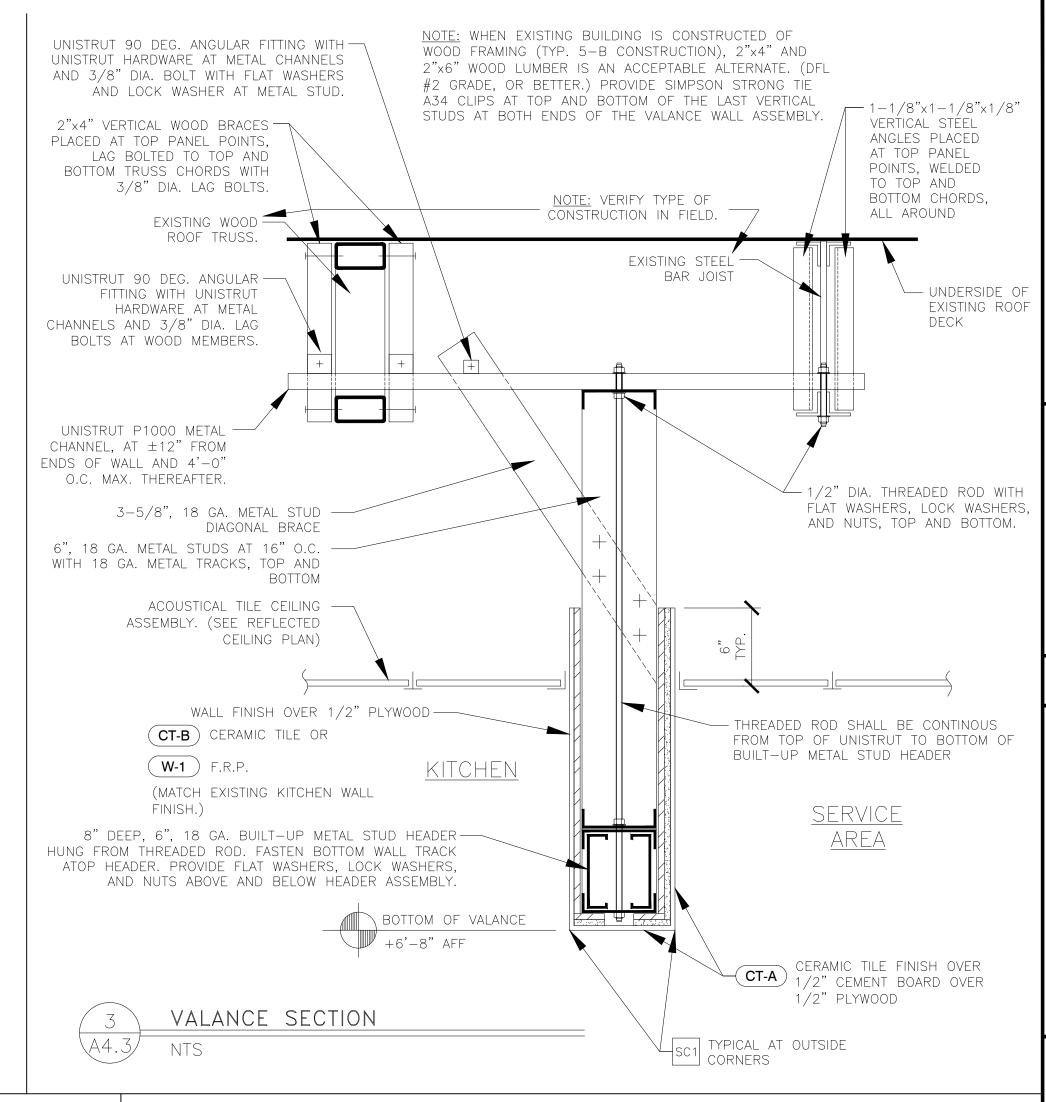


1-1/2 " = 1'-0"

1/2" = 1'-0"

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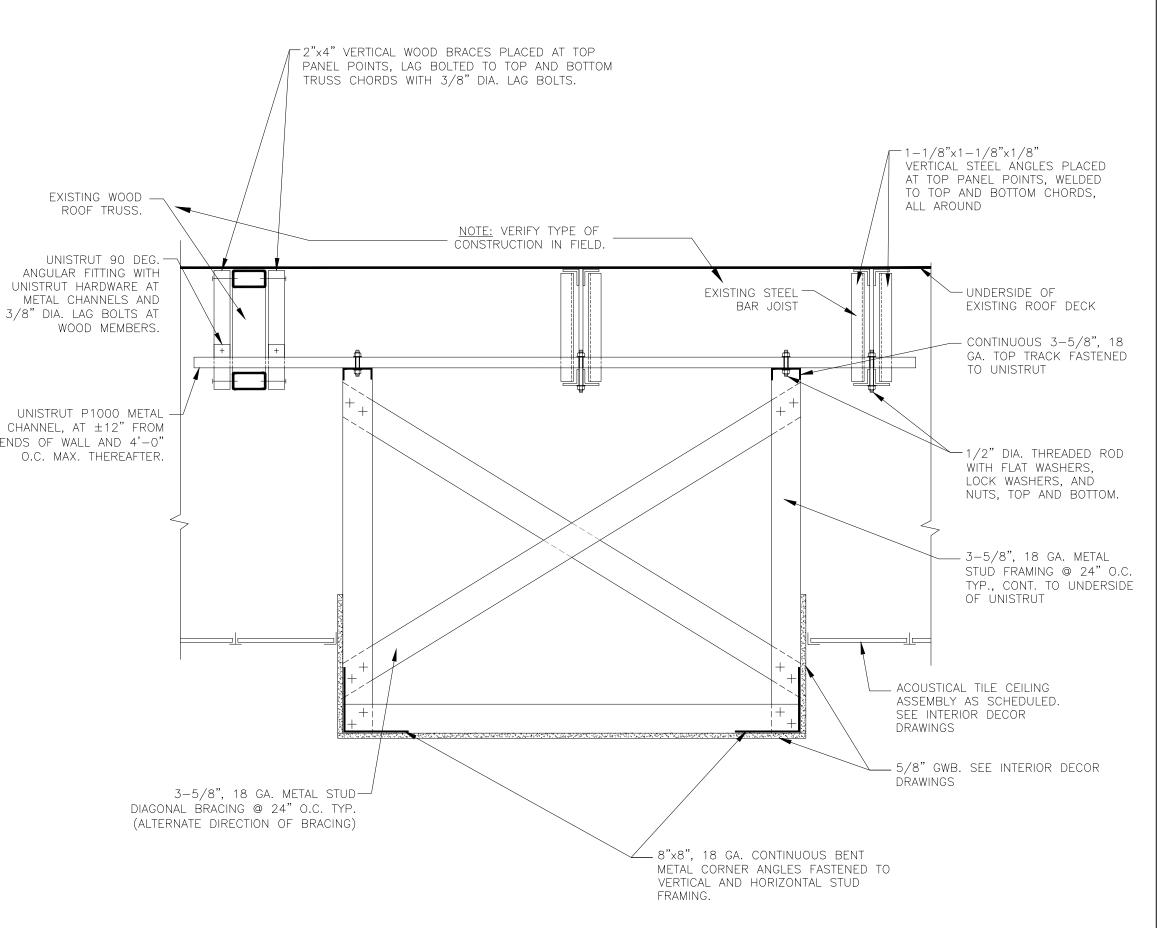
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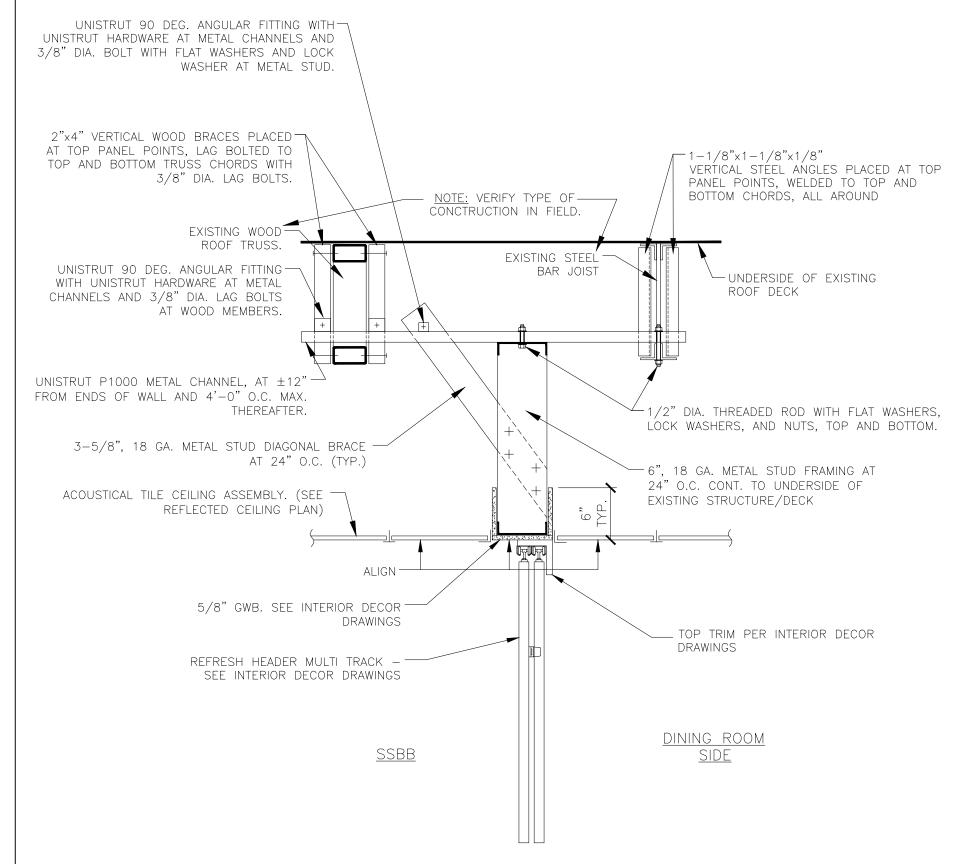
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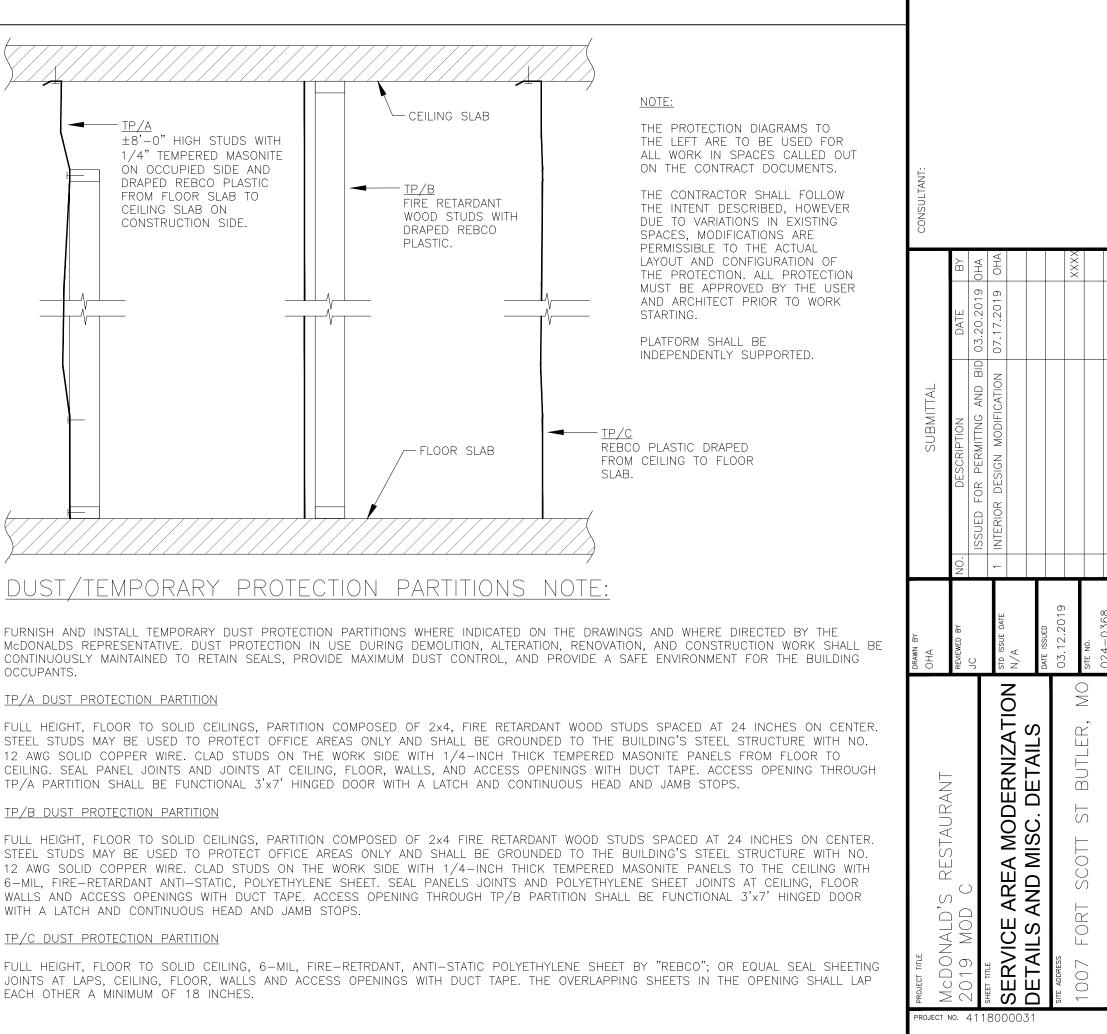


SOFFIT AND FASCIA DETAIL

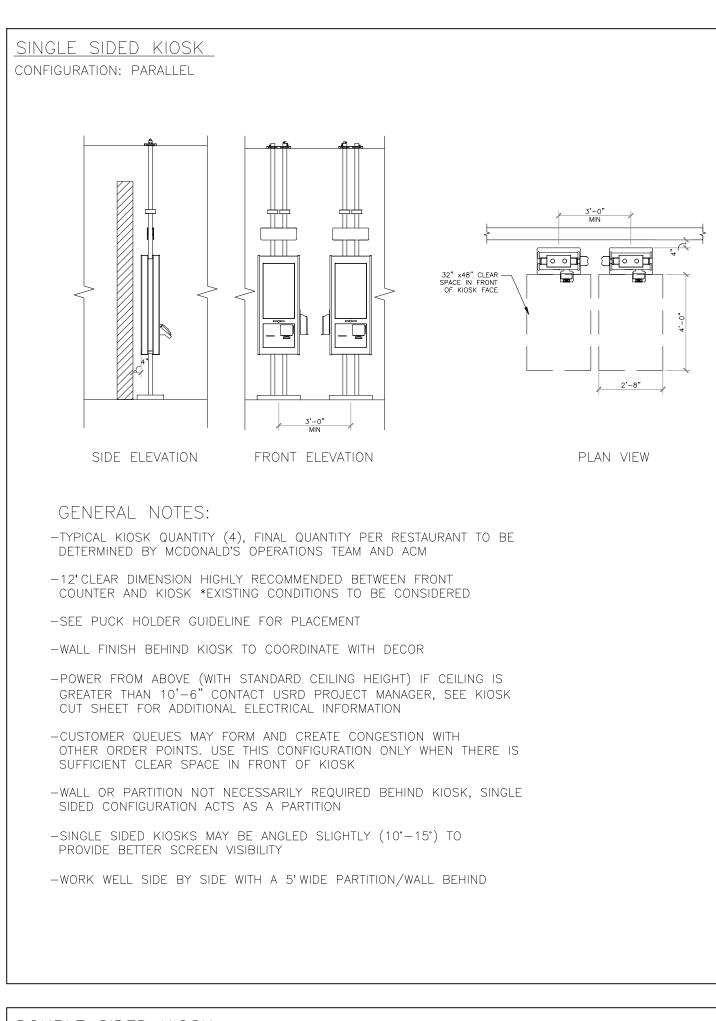


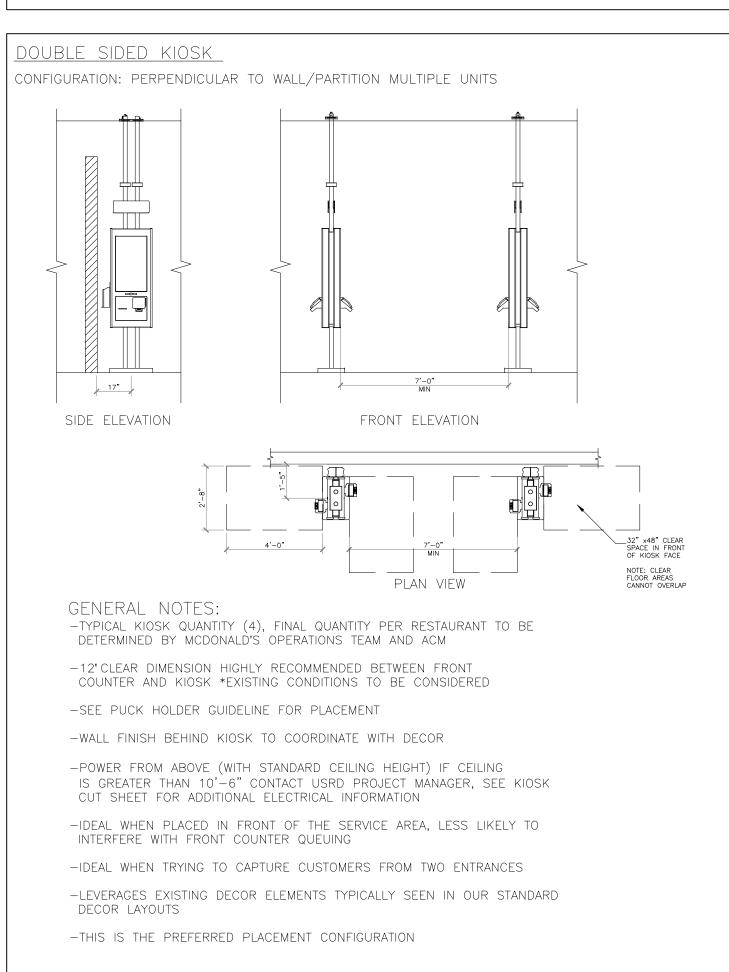
REFRESH HEADER MULTI TRACK SUPPORT DETAIL

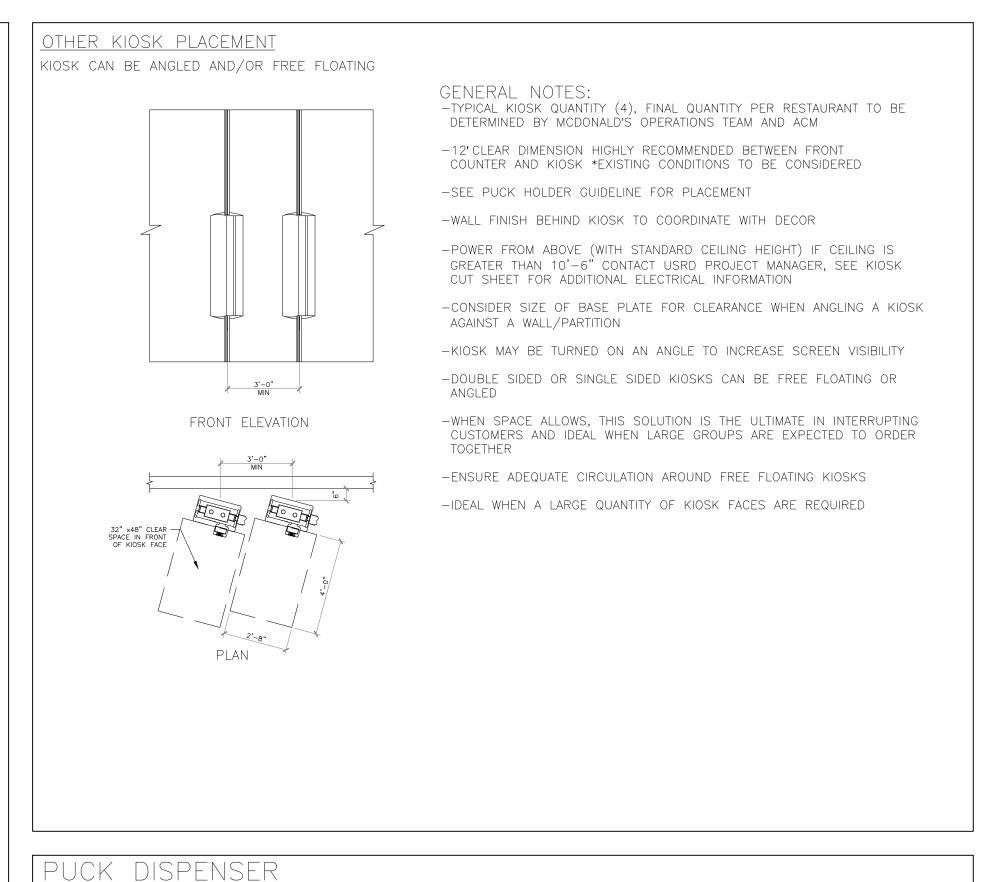
DETAIL 5a IS SIMILAR EXCEPT SINGLE TRACK REFRESH HEADER

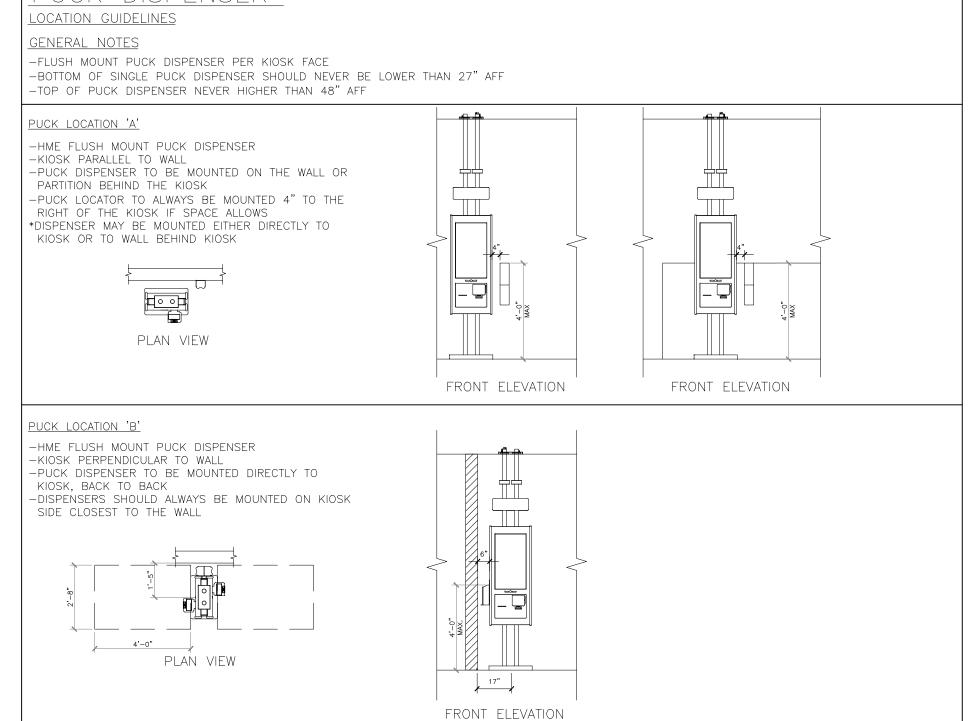


TEMPORARY PARTITION DETAIL & NOTES













New Constrution Standards: Kiosk placement inside the 12'-0" customer service area where the typical décor wall is located

MRP/EOTF Standards: Kiosk placement —
10'-0" customer service area where the typical

Take into account which entrance is the main entrance

décor wall is located

Make kiosks immediately visible upon entry

Position kiosks along main customer path before they reach the traditional front counter, visually interrupting their journey

Avoid conflicts with customer congestion at other order points

Provide sufficient space for larger groups, families and universal design accessibility

Ensure path from kiosk to service area is

Consider privacy of those dining when kiosks are adjacent to seating

Leverage decor to help customers navigate through the space

Cluster kiosks close to one another to optimize kiosk coach interaction with customers

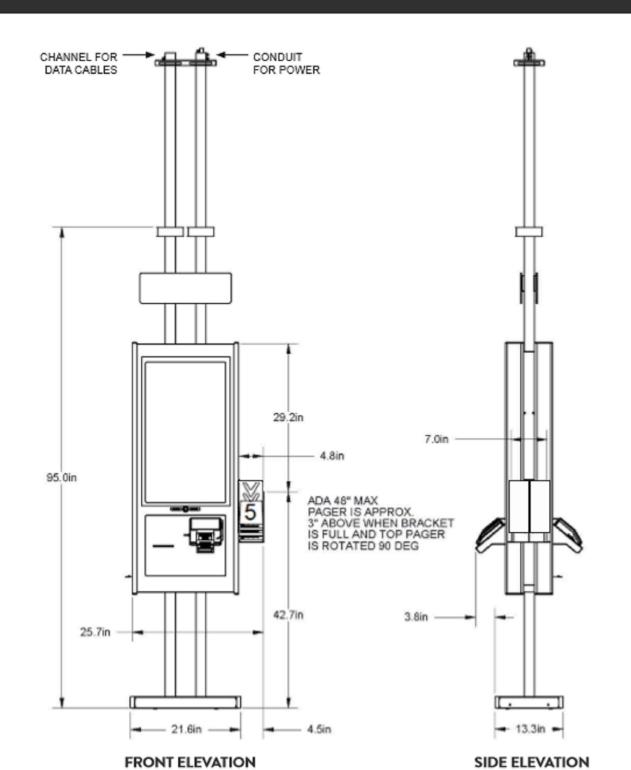
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KIOSK GUIDELINES

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2/27/17

KIOSK CUT SHEET



NOTES:

- 1. Single sided kiosk uses 8A @ 12OV. Provide 20A MOCP within CP panel
- 2. Double sided kiosk uses 9A @12OV. Provide 20A MOCP within CP panel

Power from above (with standard ceiling height) If ceiling is above 10'6" contact USRD Project Manager



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2/27/17

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JOSHUA W. CARRELL
NUMBER
A-2018040323

#E: 07/25/2019

ME: Joshua W. Carrell

A-2018040323

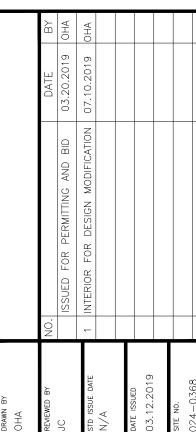
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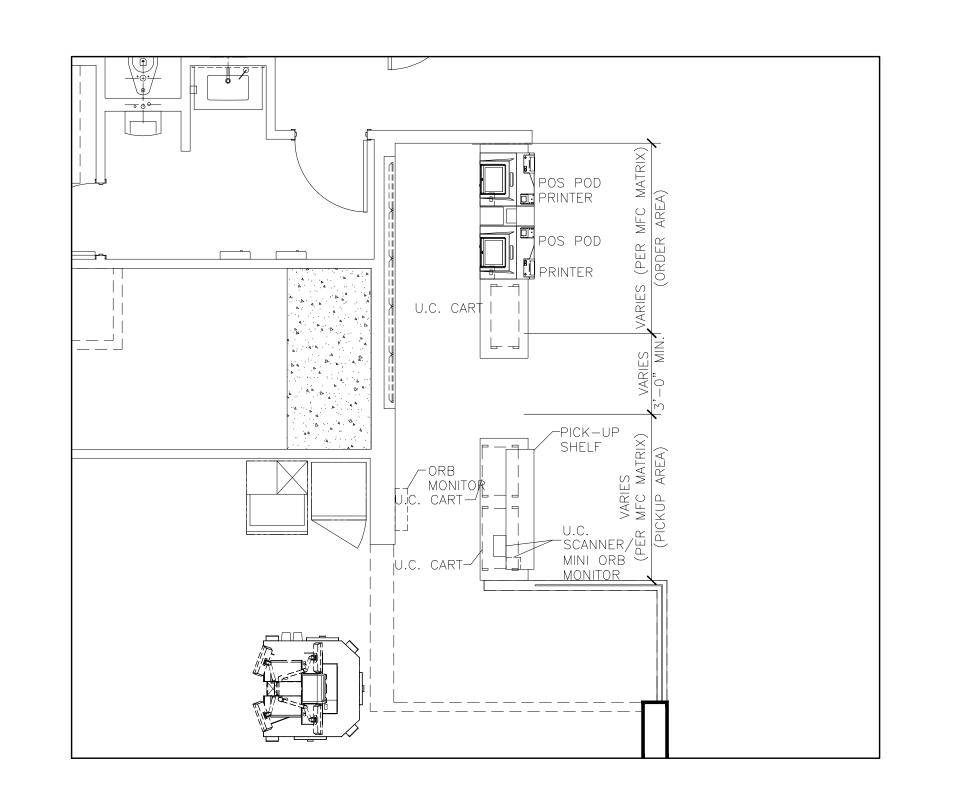
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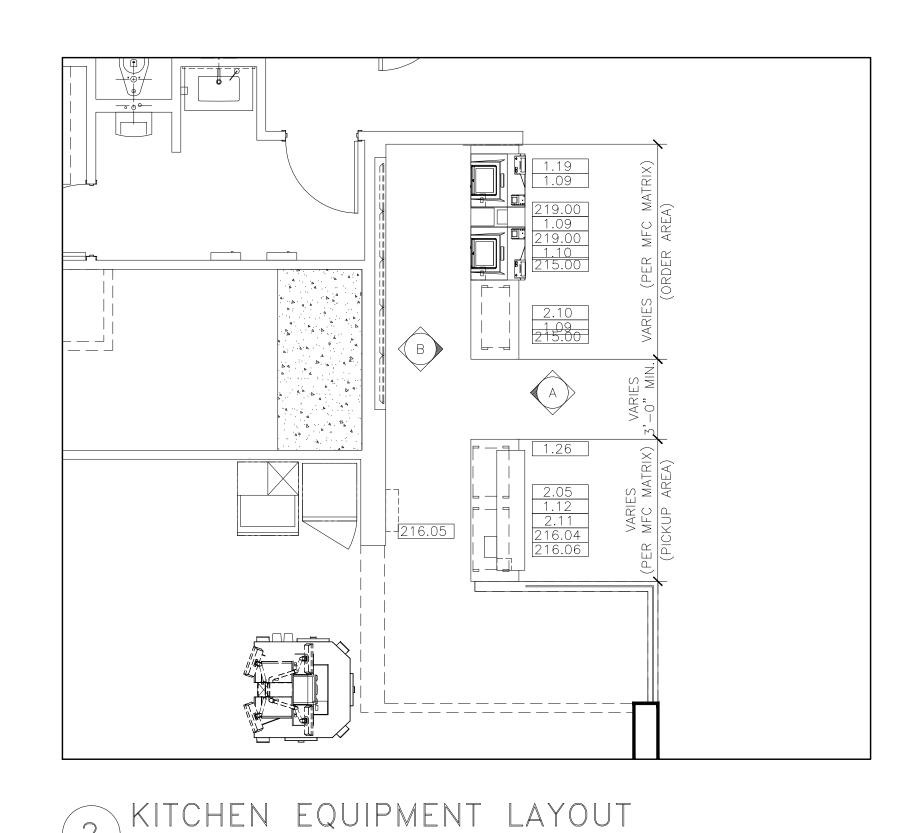


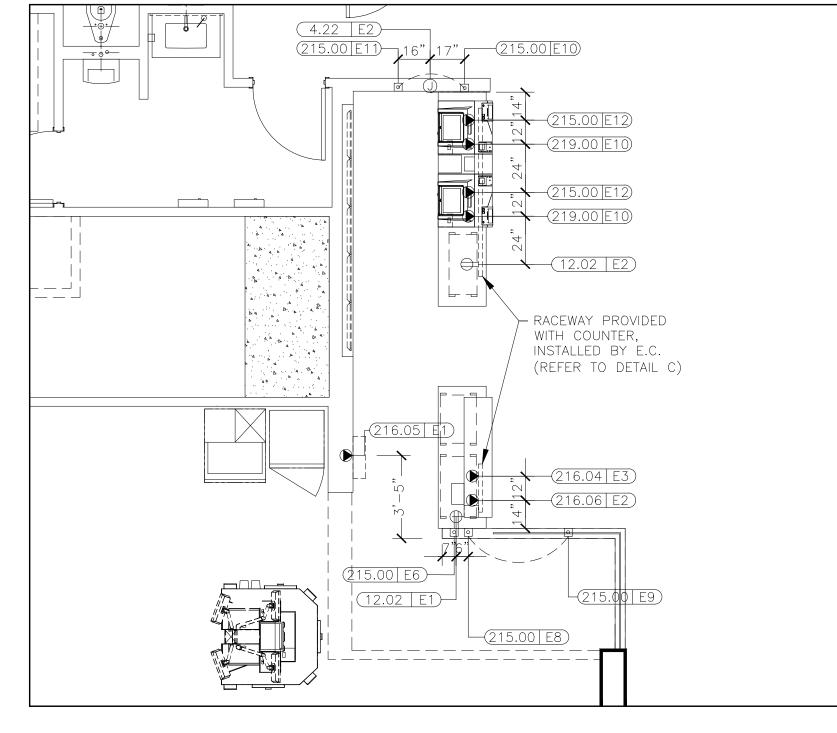


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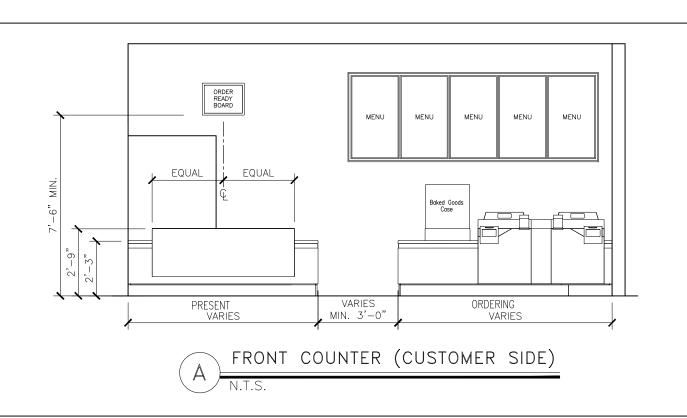


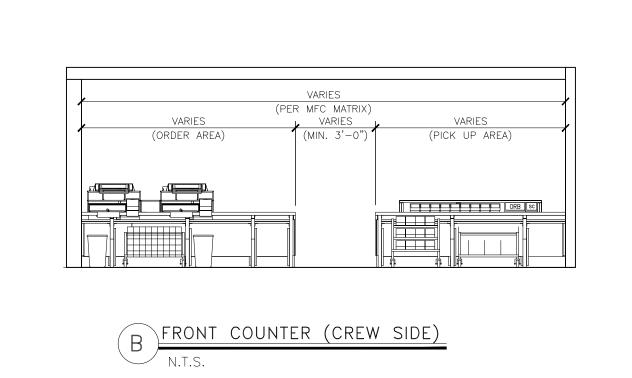


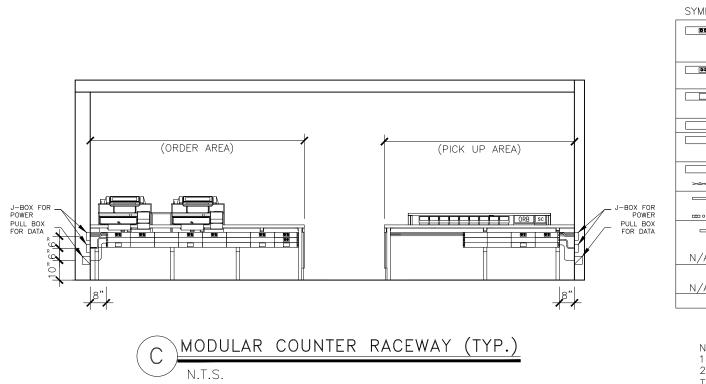




EOTF MODULAR FRONT COUNTER SLIP-SHEET WITH DELIVERY SYSTEM & FUTURE READY FOR BAKED GOODS







SYMBOL	CATALOG #	DESCRIPTION	QUANTITY
86	HBLALU57DR & IG4700	RECEPTACLE COVERPLATE WITH ORANGE, TWIST LOCK, ISOLATED GROUND DUPLEX RECEPTACLE	1 PER ISOLATED GROUND RECEPTACLE
58	HBLALU57DR & 5-15R	RECEPTACLE COVERPLATE WITH STRAIGHT BLADE DUPLEX RECEPTACLE	1
	HBLALU57LPB	COMMUNICATIONS COVERPLATE	1 PER REGISTER & 1 FOR DUAL POINT & 1 FOR ANALOG WIRELESS OPTION
	HBLALU57BL	BLANK COVERPLATE	AS NECESSARY TO FILL RACEWAY
	HBLALU7620B03M290	3' SECTION OF RACEWAY. INCLUDES COUPLERS	AS NECESSARY TO MAKE ORDER COUNTER RACEWAY 1' LESS THAN COUNTER LENGTH. INSTALL (2) 2' OR 3' RACEWAY AT PICKUP
>\$\dagge\	HBLALU7620B02M290	2' SECTION OF RACEWAY, INCLUDES COUPLERS	AS NECESSARY TO MAKE ORDER COUNTER RACEWAY 1' LESS THAN COUNTER LENGTH. INSTALL (2) 2' OR 3' RACEWAY AT PICKUP
 B = -	HBLALU7610B	BLANK END FITTING	AS NEEDED
N/A	HBLALU5010B2M2	SERVICE ENTRANCE FITTING & BUSHING FOR DATA CABLES	AS NEEDED
N/A	HBLALU5701	COUPLER (INCLUDED WITH RACEWAY SECTION)	RECEIVE 1 PAIR PER RACEWAY SECTION
,	HBLALU5709	GROUND ADAPTER	AS NEEDED

1. RACEWAY AND ISOLATED GROUND RECEPTACLES TO BE PROVIDED WITH MODULAR FRONT COUNTER, INSTALLED BY CONTRACTOR.
2. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY. SITE SPECIFICS MIGHT CAUSE DEVIATIONS. SHORTER COUNTERS MAY REQUIRE CONTRACTOR
TO CUT RACEWAY FOR RACEWAY TO BE 1'SHORTER THAN COUNTER.

- ELECTRICAL RACEWAY NOTES:
- 1. RACEWAY AND RECEPTACLES TO BE PROVIDED WITH
- MODULAR FRONT COUNTER, INSTALLED BY CONTRACTOR.

 2. DETAIL SHOWN IS A TYPICAL CONFIGURATION ONLY.

 SITE SPECIFICS MIGHT CAUSE DEVIATIONS.

GC = Ge	neral C	Equipment VIF = Verify in Field Contractor Equipment		EQUIPM	MENT	SC	CHEDU	JLE	
ITEM) QTY	DESCRIPTION	MANUFACTURER	MODEL #	UL	NSF	FURNISHED	GENERAL REMARKS	SPECIAL REQUIREMENTS
1.09	3	MODULAR FRONT COUNTER POS POD	DECOR	MFC-POS	_	2	GC	_	
1.10	1	MODULAR FRONT COUNTER COOKIE DISPLAY	DECOR	MFC-CD	_	2	GC	_	
1.12	1	MODULAR FRONT COUNTER OVERSHELF - 48"	DECOR	MFC-OS-48	_	2	GC	_	
1.19	1	MODULAR FRONT COUNTER BASE - 108"	DECOR	MFC-108	_	2	GC	_	
1.26	1	MODULAR FRONT COUNTER BASE - 96"	DECOR	MFC-96	_	2	GC	_	
2.05	1	UNDER COUNTER CART — 24"W x 18"D FRONT COUNTER	INTERMETRO	UC18-DMS	_	2	KES	-	
2.10	1	BAG/NAPKIN STOCK CART	INTERMETRO	MCD-DP1430B	_	2	KES	_	
2.11	1	CUP AND LID SLEEVE STOCK CART	INTERMETRO	MCD-DP1830CS	_	2	KES	_	
215.00	3	POS REGISTER - FRONT COUNTER	BY OWNER	BY OWNER	OEM	_	OWNER	INCLUDES MONITOR AND CPU	
216.04	1	ORB MINI MONITOR	BY OWNER	BY OWNER	_	_	OWNER	UNDER COUNTER BRACKET BY POS SUPPLIER	
216.05	1	ORB MONITOR	BY OWNER	BY OWNER	_	_	OWNER	MOUNTING KIT PROVIDED BY KES	
216.06	1	ORB SCANNER	BY OWNER	BY OWNER	_		OWNER	UNDER COUNTER BRACKET BY POS SUPPLIER	
219.00	3	POS - RECEIPT PRINTER	BY OWNER	BY OWNER	ОЕМ	_	OWNER	_	

PB = Pul JB = Jun EC = Elec	ction	VIF = Verify in Field Box I Contractor			ELEC	CTRICA	AL SCHED	ULE		
TAG #	QTY	DESCRIPTION	VOLT/PH	FLA	BRK SIZE	COND/WIRE	PNL/CCT	RECEP TYPE	HGT AFF	REQUIREMENTS & REMARKS
004.22E2	1	DIGITAL INTERRUPT PANEL	_	_	_	1/2°C	-	JB	ABOVE CLG.	EC TO PROVIDE JB WITH BLANK COVER PLATE AND 1/2" EMPTY CONDUIT TO 4.20E3
012.02E1	1	BAKED GOODS DISPLAY CASE - 22"	120/1	2.5	15A	1/2"C-2#12	AP-3:1	5-15R	1'-6"	-
012.02E2	1	BAKED GOODS DISPLAY CASE - 22"	120/1	2.5	15A	1/2"C-2#12	AP-3:1	5-15R	SEE RMKS	PROVIDE RECEP. IN COUNTER-MOUNTED RACEWAY
211.00E1	1	DELIVERY TABLET	120/1 ISOLATED	1.5	20A	1/2"C-2#12IG	CP:21	IG5262	SEE RMKS	TABLET LOCATED IN ASSEMBLY AREA AFTER DISPLAY IS INTEGRATED WITH POS. VERIFY EXACT MOUNTING LOCATION IN FIELD.
211.00E2	1	DELIVERY TABLET	120/1 ISOLATED	1.5	20A	1/2"C-2#12IG	CP:4	SEE RMKS	SEE RMKS	TABLET LOCATED AT FRONT COUNTER UNTIL DISPLAY IS INTEGRATED WITH POS. POWER FROM SAME RECT. AS 219.00E10 VIA TWIST-LOCK ADAPTER PROVIDED WITH UNIT.
215.00E10	1	POS REGISTER - FRONT COUNTER	DATA CABLE	-	_	_	-	4x4x4 PB	1'-2"	EXTEND 2 1/2" CONDUIT TO 215.00E11 FOR POS DATA CABLES
215.00E11	1	POS REGISTER - FRONT COUNTER	DATA CABLE	_	_	_	-	4x4x4 PB	1'-2"	EXTEND 2 1/2" CONDUIT TO ABOVE CEILING AND TO 215.00E10 FOR POS DATA CABLES
215.00E12	3	POS REGISTER - FRONT COUNTER	120/1 ISOLATED	3.0 EA.	_	3/4"C-2#12IG	CP:19	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY
215.00E8	1	POS REGISTER - FRONT COUNTER	DATA CABLE	_	_	_	-	4x4x4 PB	1'-2"	EXTEND 2 1/2" CONDUIT UNDER SLAB TO 215.00E9 FOR POS DATA CABLES
215.00E9	1	POS REGISTER - FRONT COUNTER	DATA CABLE	_	_	_	-	4x4x4 PB	1'-2"	EXTEND 2 1/2" CONDUIT UNDER SLAB TO 215.00E8 AND 2 1/2" CONDUIT TO ABOVE CEILING FOR POS DATA CABLES
216.04E3	1	ORB MONITOR (MINI)	120/1 ISOLATED	1.5 EA.	20A	3/4"C-2#12IG	CP:4	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY
216.05E1	1	ORB MONITOR	120/1 ISOLATED	1.5 EA.	20A	1/2"C-2#12IG	CP:4	IG4700	FLUSH ON CLG	-
216.06E2	1	ORB SCANNER	120/1 ISOLATED	1.5 EA.	20A	3/4"C-2#12IG	CP:4	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY
219.00E10	3	POS - RECEIPT PRINTER	120/1 ISOLATED	0.7	20A	3/4"C-2#12IG	CP:4	IG4700	SEE RMKS	PROVIDE IG RECEP. IN COUNTER-MOUNTED RACEWAY

- ELECTRICAL SCHEDULE NOTES:
- 1. CIRCUIT NUMBERS SHOWN ARE FOR DESIGN INTENT ONLY. ACTUAL CONDITIONS WILL AFFECT CIRCUITRY.
- 2. WHEN AVAILABLE ONLY ONE BAKED GOODS CASE WILL BE PROVIDED PER RESTAURANT.

Joshua W. Carrell

07/25/2019

- THE ELECTRICAL CONTRACTOR (E.C.) SHALL PROVIDE ALL LABOR AND MATERIALS NECESSARY
- FOR A COMPLETE AND FULLY OPERATIONAL ELECTRICAL SYSTEM/INSTALLATION. MATERIALS AND INSTALLATION SHALL COMPLY WITH ALL CODES, LAWS, AND ORDINANCES OF
- 3. ALL MATERIALS AND EQUIPMENT SHALL BE LISTED AND/OR LABELED BY U.L., ETL, CSA, OR ANOTHER RECOGNIZED TESTING LABORATORY.

FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION.

- 4. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, GOVERNMENTAL FEES, TAXES AND LICENSES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF ALL
- 5. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO GOVERNMENTAL AGENCIES, UTILITY COMPANIES, AND LOCAL CODE OFFICIALS, SHOP DRAWINGS AND/OR INSTALLATION DETAILS WHICH ARE REQUIRED BY THESE AGENCIES FOR THEIR APPROVAL.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT. ENGINEER. AND PROJECT MANAGER IN WRITING OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, IN VIOLATION OF LAWS, ORDINANCES, RULES, OR REGULATIONS OF THE AUTHORITIES HAVING
- 7. THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE FIRE PREVENTION BUREAU ALL DOCUMENTS, INCLUDING DRAWINGS AND SUBMITTALS, REQUIRED TO OBTAIN APPROVAL OF THE EMERGENCY LIGHTING, LIFE SAFETY, AND EXIT SIGN SYSTEM(S) FOR TYPES AND LOCATIONS. A COPY OF THE APPROVED DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT AND ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- 8. ALL NEW ELECTRICAL WORK OR MODIFICATIONS TO EXISTING ELECTRICAL DISTRIBUTION PANELS, PANELBOARDS, METERS, ETC. SHALL BE INSTALLED AS INDICATED ON THE ELECTRICAL CONSTRUCTION DOCUMENTS. E.C. SHALL SUBMIT SHOP DRAWINGS OF ALL EQUIPMENT TO BE INSTALLED INDICATING FLOOR PLAN LAYOUT, ELEVATIONS, AND ALL DIMENSIONS FOR APPROVAL OF THE ENGINEER PRIOR TO INSTALLATION. CODE REQUIRED CLEARANCES IN FRONT OF ALL ELECTRICAL EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.
- 9. THE CONTRACTOR SHALL INCLUDE IN BID AN ALLOWANCE FOR THE FOLLOWING ADDITIONAL LIFE SAFETY DEVICES, INCLUDING INSTALLATION AND ALL CONDUIT AND WIRE, FOR ADDITIONAL DEVICES AS MAY BE REQUIRED BY THE REVIEW OF THE AUTHORITY HAVING JURISDICTION.

(2) EXIT SIGN FIXTURES (2) EMERGENCY LIGHTING FIXTURES

CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR EACH FOR QUANTITY ADJUSTMENT.

- 10. THE CONTRACTOR SHALL INCLUDE IN BID ELECTRICAL UNIT PRICES (EUP) TO PROVIDE ADDITIONAL LIFE SAFETY DEVICES WITHIN FINISHED CEILING SYSTEMS, INCLUDING ALL CONDUIT AND WIRE, FOR EACH TYPE OF DEVICE AS SCHEDULED IN NOTE NUMBER 9. THE UNIT PRICE SHALL INCLUDE ALL GENERAL CONTRACTOR ASSOCIATED COSTS TO INSTALL DEVICES WITHIN INSTALLED CEILING SYSTEMS.
- 11. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, MAKE A SCHEDULED ARRANGEMENT WITH THE PROJECT MANAGER TO VISIT THE SITE, AND THOROUGHLY BECOME FAMILIAR WITH THE BUILDING STANDARDS AND LOCAL CONDITIONS RELATING TO THE WORK. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF
- 12. THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND WIRING FOR THE PERFORMANCE OF ALL TRADES, FOR THE ENTIRE PERIOD OF CONSTRUCTION AND SHALL REMOVE ALL TEMPORARY WIRING AT THE COMPLETION OF CONSTRUCTION. ALL COSTS FOR ESTABLISHING AND REMOVING TEMPORARY POWER SHALL BE INCLUDED IN BID.
- 13. THE EXISTING POWER, SIGNAL, AND COMMUNICATIONS SYSTEMS ARE TO REMAIN IN SERVICE TO PROVIDE FOR THE OWNER'S EXISTING FUNCTIONS. SHOULD IT BECOME NECESSARY TO SHUT-DOWN ANY SYSTEM OR PORTION OF A SYSTEM, APPROVAL IN WRITING MUST BE OBTAINED FROM THE PROJECT MANAGER AND SHALL BE ONLY FOR THE PERIOD AND TIME AGREED UPON. THE BID IS TO INCLUDE THE COST OF ANY TEMPORARY WIRING AND PREMIUM TIME REQUIRED FOR THE SHUTDOWN.
- ALL MATERIALS AND EQUIPMENT SHALL BE ERECTED, INSTALLED, TOOLED, CONNECTED, CLEANED, ADJUSTED, TESTED, CONDITIONED, AND PLACED IN SERVICE IN ACCORDANCE WITH THE MANUFACTURER'S DIRECTIONS AND RECOMMENDATIONS.
- 15. ALL CUTTING, DRILLING, AND PATCHING OF MASONRY, DRYWALL, CONCRETE, STEEL, OR IRON WORK BELONGING TO THE BUILDING SHALL BE DONE BY THIS CONTRACTOR IN ORDER THAT WORK MAY BE PROPERLY INSTALLED. UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTION OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.
- 16. SHOP DRAWINGS SHALL INCLUDE MANUFACTURER'S NAMES, CATALOG NUMBERS, CUTS, DIAGRAMS, AND OTHER SUCH DESCRIPTIVE DATA AS MAY BE REQUIRED TO IDENTIFY AND REVIEW THE EQUIPMENT. SUBMITTALS SHALL BE IN LOGICAL GROUPS (FOR EXAMPLE ALL LIGHTING FIXTURES). PARTIAL SUBMITTALS WILL NOT BE REVIEWED.
- 17. SUBMIT FOUR (4) COPIES OF THE FOLLOWING SHOP DRAWINGS FOR REVIEW:
 - A. LIGHTING FIXTURES AND LAMPS B. WIRING DEVICES
 - C. LOW VOLTAGE RELAYS AND SWITCHES E. DIMMERS AND CONTROLS
- 18. CONTRACTOR SHALL PROVIDE "AS-BUILT" DOCUMENTATION AND HARD COPY REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE PROJECT AND SUBMIT TO THE ARCHITECT AND THE ENGINEER. AS-BUILT DRAWINGS SHALL INDICATE EXACT CIRCUIT NUMBERS, LOCATIONS OF ALL DEVICES, CEILING FIXTURES, AND RACEWAY FOR LIGHTING, TELECOMMUNICATIONS AND POWER DISTRIBUTION SYSTEMS AS INSTALLED.
- 19. ALL MATERIAL, EQUIPMENT, WIRING DEVICES, ETC. SHALL BE NEW AND OF COMMERCIAL GRADE

UNLESS SPECIFICALLY INDICATED AS EXISTING TO BE REUSED ON DRAWINGS.

- 20. EXCEPT AS NOTED OTHERWISE, ALL WORK REQUIRED FOR THE ELECTRICAL INSTALLATION AS SHOWN ON DRAWINGS SHALL INCLUDE ALL LABOR, INSTALLATION METHODS, EQUIPMENT, AND MATERIALS AND SHALL BE IN STRICT COMPLIANCE WITH ALL BUILDING STANDARDS.
- 21. PROVIDE A COMPLETE METAL RACEWAY SYSTEM, FITTINGS AND ENCLOSURES FOR ALL ELECTRICAL WIRING SYSTEMS TO BE INSTALLED FOR THE PROJECT. SYSTEMS SHALL INCLUDE. BUT NOT BE LIMITED TO POWER, COMMUNICATIONS, SECURITY, PAGING, TEMPERATURE CONTROL AND CONTROLS.
- 22. NOT USED.
- 23. MINIMUM CONDUIT SIZE SHALL BE 1/2 INCH FOR GENERAL LIGHTING AND POWER CIRCUITRY UNLESS OTHERWISE INDICATED AND/OR REQUIRED BY CODE.
- 24. FLEXIBLE CONDUIT CONNECTIONS TO RECESSED LIGHTING FIXTURES SHALL BE MADE WITH FLEXIBLE STEEL CONDUIT, 1/2 INCH MINIMUM, INCLUDING AN INSULATED COPPER GREEN EQUIPMENT GROUNDING CONDUCTOR OR SHALL BE MADE WITH METAL CLAD TYPE CABLE.
- 25. NOT USED.
- 26. WIRE NUMBER 8 AND SMALLER FOR USE IN INTERIOR DRY LOCATIONS SHALL BE TYPE THWN THERMOPLASTIC 600 VOLT INSULATED COPPER CONDUCTORS. FEEDERS AND POWER WIRING NUMBER 6 AND LARGER SHALL BE TYPE THW 600 VOLT INSULATED COPPER. WIRE WHICH IS INSTALLED IN RACEWAY IN MOIST OR DAMP LOCATIONS SHALL BE THW, 600 VOLT INSULATED COPPER CONDUCTORS. NO WIRE SMALLER THAN NUMBER 12 AWG SHALL BE USED FOR LIGHTING OR POWER
- 27. BRANCH CIRCUIT HOMERUN WIRING:
 - A. GENERAL PURPOSE BRANCH CIRCUIT HOMERUNS CONSISTING OF TWO NETWORKS SHALL HAVE PHASE, NEUTRAL AND GROUND CONDUCTORS INCREASED TO NUMBER 10 AWG, THWN AS A MINIMUM. WHERE HOMERUN (ONE OR MORE NETWORKS) EXCEEDS 100 LINEAR FEET, CONDUCTOR SIZE SHALL BE INCREASED ONE TRADE
 - B. ALL BRANCH CIRCUITS. FEEDERS, AND HOMERUNS SHALL BE PROVIDED WITH AN INSULATED COPPER GREEN GROUNDING CONDUCTOR ROUTED IN THE SAME CONDUIT. GROUNDING CONDUCTOR SHALL BE SIZED PER THE REQUIREMENTS OF NEC SECTION 250.
 - C. HOMERUN LENGTH SHALL BEGIN AT THE CENTRAL POINT OF ALL DISTRIBUTED CIRCUITS TO THE PANELBOARD CIRCUIT BREAKER.

- 28. ALL NEW CIRCUIT BREAKERS FOR EXISTING PANELBOARDS AND DISTRIBUTION PANELBOARDS SHALL MATCH EXISTING BUILDING PANELBOARD MANUFACTURER AND CIRCUIT BREAKER TYPE ALL CIRCUIT BREAKERS SHALL BE BOLT ON TYPE. AIC RATING OF NEW CIRCUIT BREAKER SHALL MATCH AIC RATING OF PANELBOARD IN WHICH IT IS INSTALLED. WHERE SERIES RATED TYPE CIRCUIT BREAKERS ARE USED, NEW CIRCUIT BREAKERS SHALL BE INSTALLED SO AS TO MAINTAIN THE UL SERIES RATING OF THE ENTIRE SYSTEM. THE CONTRACTOR SHALL PROVIDE A NEW TYPEWRITTEN PANEL DIRECTORY FOR EACH PANEL CHANGED AT THE COMPLETION OF THE PROJECT. EACH CIRCUIT BREAKER SHALL BE LABELED TO IDENTIFY LOAD TYPE AND
- 29. THE CONTRACTOR SHALL VERIFY THE CEILING CONSTRUCTION TYPE WITH ARCHITECTURAL DETAILS BEFORE ORDERING LIGHTING FIXTURES IN ORDER TO CONFIRM PROPER MOUNTING.
- 30. EACH SWITCH, LIGHT, RECEPTACLE, OR OTHER MISCELLANEOUS DEVICE SHALL BE PROVIDED WITH A GALVANIZED OR SHERARDIZED PRESSED STEEL OUTLET BOX OF THE KNOCKOUT TYPE, OF NOT LESS THAN NUMBER 14 U.S. GAUGE STEEL. CONDUITS SHALL BE FASTENED WITH LOCKNUTS AND BUSHINGS AND ALL UNUSED KNOCKOUTS SHALL BE LEFT SEALED. THERE SHALL BE SUFFICIENT ROOM FOR WIRES AND BUSHINGS AND DEEP BOXES SHALL BE INSTALLED WHERE REQUIRED. BOXES SHALL BE SECURELY AND ADEQUATELY SUPPORTED.
- 32. IN SUSPENDED CEILINGS, SUPPORT CONDUITS AND JUNCTION BOXES DIRECTLY FROM THE STRUCTURAL SYSTEM, DECK OR FRAMING PROVIDED FOR THAT PURPOSE. LIGHTING BRANCH CIRCUIT CONDUITS SHALL NOT BE CLIPPED TO THE CEILING SUPPORT WIRES OR SPLINE UNLESS THE CEILING SYSTEM HAS BEEN SPECIFICALLY DESIGNED FOR THAT PURPOSE AND APPROVAL HAS BEEN GRANTED BY THE ARCHITECT AND THE ENGINEER.
- 33. E.C. SHALL PROVIDE "3M" FIRESEAL SYSTEMS FOR ALL CORES AND RACEWAY PENETRATIONS IN FIRE RATED WALLS AND PARTITIONS. FIRE RATE WALL AND CEILING PENETRATIONS, ETC. USING "CP-25" CAULK, "303" PUTTY AND/OR "FLAMESEAL" PUTTY AS PER MANUFACTURER'S INSTRUCTIONS TO MAINTAIN EXISTING AND NEW FIRE RATINGS. VERIFY FIRE RATING CONDITIONS AND LOCATIONS PRIOR TO FINAL BIDS. ALL OPEN SLEEVE PENETRATIONS SHALL BE FIRESEALED INSIDE AND OUTSIDE BY E.C. AFTER ALL CABLING IS COMPLETELY INSTALLED. SEALING METHODS SHALL BE PROVIDED BY E.C. AND SHALL BE SUBJECT TO THE APPROVAL OF THE CABLING CONTRACTOR.
- 34. NOT USED.
- 35. NOT USED.
- 36. NUMBERED CIRCUITS SHOWN ON PLAN ARE FOR THE CONVEYANCE OF DESIGN INTENT ONLY. ACTUAL FIELD CONDITIONS WILL AFFECT CIRCUITRY. INDICATE THE ACTUAL CIRCUIT NUMBERS INSTALLED ON THE "AS-BUILT" DRAWINGS
- A. ALL NEW CONDUIT RACEWAYS AND BOXES FOR ALL SYSTEMS SHALL BE INSTALLED TIGHT-UP TO THE BOTTOM OF THE STRUCTURAL BEAMS WHERE REQUIRED AND PROPERLY SUPPORTED FROM STRUCTURAL MEMBERS.
- B. ALL NEW CONDUIT RUNS SHALL BE INSTALLED ABOVE AND OVER THE TOP OF ALL NEW AND/OR EXISTING DUCTWORK, PIPING, CONDUITS, PULLBOXES, ETC. E.C. SHALL PROVIDE ALL NECESSARY ACCESSIBLE PULLBOXES. CONDUIT BENDS SHALL NOT EXCEED CODE REQUIREMENTS WITHIN A SINGLE RUN. E.C. SHALL PROVIDE ALL PULLBOXES AS REQUIRED.
- C. NEW CONDUIT RUNS OR PULLBOXES SHALL NOT BE INSTALLED LESS THAN 2 INCHES ABOVE RECESSED LIGHTING FIXTURES UNLESS APPROVED BY THE ENGINEER.
- D. NEW CONDUIT RUNS OR PULLBOXES SHALL NOT BLOCK OR PREVENT FULL AND COMPLETE ACCESS AND OPERATION OF NEW OR EXISTING HVAC EQUIPMENT, ACCESS DOORS, PIPING VALVES, JUNCTION BOXES, DUCT HEATERS, MAIN SUPPLY AND RETURN AIR DUCTS, PULLBOXES, CLEANOUTS, ETC.
- E. NEW CONDUIT AND PULLBOXES TO BE INSTALLED BELOW NEW OR EXISTING DUCTWORK SHALL BE MOUNTED TIGHT UP TO BOTTOM OF DUCT WITH 90 DEGREE BENDS UP SIDEWALL OF DUCT TO MEET REQUIREMENTS OF LETTER C ABOVE. SUPPORTS SHALL NOT PENETRATE DUCTWORK. AND SHALL BE INDEPENDENT OF ALL DUCTWORK SUPPORTS. DIRECT CONTACT OF CONDUIT RACEWAY SYSTEMS WITH DUCTWORK OR PIPING SHALL BE PROVIDED WITH VIBRATION SEPARATION METHOD APPROVED BY THE ENGINEER.
- F. NEW CONDUIT AND BOXES TO BE INSTALLED WITHIN ALL EXISTING FINISHED BUILDING DRYWALL, FURRED BUILDING WALLS, PARTITIONS, AND COLUMNS SHALL BE INSTALLED WITH EMT AND FLEXIBLE RACEWAYS NOT MORE THAN 6'-0" LONG. ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS FOR DRYWALL ACCESS, CUTTING, PATCHING, PAINTING, ETC. IN BIDS FOR SUCH CONDITIONS. FIELD VERIFY ALL LOCATIONS ON SITE PRIOR TO FINAL BIDS. EXCEPTIONS DURING BIDS SHALL BE SUBMITTED IN WRITING.
- G. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE HELD RESPONSIBLE TO HAVE EXAMINED THE CONSTRUCTION SITE WITH RESPECT TO CONSTRUCTION DRAWINGS, ACTUAL FIELD CONDITIONS, DOOR FRAME HEIGHTS, PIPING OBSTRUCTIONS, DUCTWORK HEIGHTS AND LEVELS, FLOOR LEVELS, CEILING HEIGHTS, ETC. PRIOR TO FINAL BIDS.
- H. ALL NEW BUILDING STANDARD EQUIPMENT, DEVICES, AND MATERIALS SHALL BE EQUAL TO OR GREATER IN QUALITY TO EXISTING APPROVED BUILDING STANDARD MATERIALS PRESENTLY INSTALLED IN BUILDING. EQUIPMENT, DEVICES, AND MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, PROJECT MANAGER, AND THE ENGINEER. I. ALL EMERGENCY AND EXIT SIGN JUNCTION BOXES SHALL BE PAINTED RED. PANEL TAG AND CIRCUIT NUMBER FOR ALL WIRING WITHIN JUNCTION BOX SHALL BE INDICATED ON
- J. ALL JUNCTION BOXES SERVING LIGHTING AND POWER SHALL HAVE CIRCUIT NUMBERS AND PANEL TAGS FOR ALL WIRING WITHIN JUNCTION BOX INDICATED ON COVERS.
- 38. A NEW PANELBOARD COPPER GROUND BUS SHALL BE INSTALL FOR EQUIPMENT GROUNDING REQUIREMENTS FOR ALL PANELBOARDS LACKING A GROUND BUS.
- 39. PERFORM ALL WORK OF A DEMOLITION NATURE THAT MAY BE REQUIRED OR NECESSARY FOR THE FULL AND COMPLETE EXECUTION OF THE WORK, WHETHER EXPLICITLY SHOWN AND/OR SPECIFIED OR NOT. EXACT EXTENT OF DEMOLITION WILL NOT BE FULLY INDICATED BY DRAWINGS. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE CONTRACT DOCUMENTS WITH ARCHITECTURAL AND DEMOLITION DRAWINGS TO EXISTING CONDITIONS. ELECTRICAL EQUIPMENT WHICH WILL NOT BE REUSED SHALL BE TURNED OVER TO THE OWNER OR REMOVED FROM THE PREMISES AS DETERMINED BY THE PROJECT MANAGER.
- 40. ANY EXISTING ELECTRICAL MATERIAL AND EQUIPMENT WHICH INTERFERES WITH THE NEW ADDITION OR THE REMOVAL OF EXISTING WALLS SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR. VERIFY REMOVAL AND NEW LOCATION OF EQUIPMENT WITH THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER PRIOR TO WORK.
- 41. VERIFY CLEARANCES FOR ALL NEW OR EXISTING RELOCATED ELECTRICAL WORK BEFORE PROCEEDING WITH CONSTRUCTION. COORDINATE USAGE OF AVAILABLE SPACE WITH ALL TRADES. IN THE EVENT OF CONFLICTS, NOTIFY THE ARCHITECT AND ENGINEER BEFORE PROCEEDING WITH THE WORK.
- 42. WHERE EXISTING CONDUIT IS SHOWN ON THE DRAWINGS, IT IS SHOWN DIAGRAMMATICALLY. THE EXACT ROUTING OF THE EXISTING CONDUIT SHALL BE DETERMINED ON THE JOB SITE BY THE CONTRACTOR.
- 44. ALL HANGER AND/OR ROD SUPPORT SYSTEMS SHALL BE SUPPORTED TO THE BOTTOM RIB OF THE METAL DECK, WHERE APPLICABLE.
- 45. PROVIDE A WRITTEN GUARANTEE THAT THE ELECTRICAL INSTALLATION IS FREE FROM MECHANICAL AND ELECTRICAL DEFECTS. CONTRACTOR AT THEIR COST SHALL REPLACE AND/OR REPAIR. TO THE SATISFACTION OF THE OWNER AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS, ANY PARTS OF THE INSTALLATION WHICH MAY FAIL WITHIN A PERIOD OF 12 MONTHS FROM CONSTRUCTION ACCEPTANCE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, PROVIDED THAT SUCH FAILURE IS DUE TO DEFECTS IN MATERIAL, WORKMANSHIP, OR FAILURE TO FOLLOW THE SPECIFICATIONS, MANUFACTURER'S INSTALLATION INSTRUCTIONS AND/OR DRAWINGS.

- 46. CONTRACTOR SHALL PROVIDE ALL NECESSARY PROPERLY SIZED WALL OR MILLWORK MOUNTED BOXES, RINGS, SUPPORTS, AND DEVICES AS REQUIRED VIA COORDINATION WITH
- ARCHITECTURAL WALL SECTIONS, AND MILLWORK DETAILS. 47. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THESE DRAWINGS. WHERE MORE STRINGENT REQUIREMENTS THAN THOSE DESCRIBED HEREIN OR AS SET FORTH UNDER CODES, LAWS, AND ORDINANCES OF FEDERAL, STATE, AND LOCAL GOVERNING BODIES HAVING JURISDICTION, THOSE GREATER REQUIREMENTS SHALL BE ADHERED TO
- 48. ALL NEW EMERGENCY LIGHTING FIXTURES AND EXIT SIGNS SHALL BE PROVIDED WITH AN INTEGRAL EMERGENCY BACKUP BALLAST TO ILLUMINATE THE FIXTURES IN THE EVENT OF A POWER FAILURE. ALL COMPONENTS SHALL BE IN COMPLIANCE WITH NFPA 101 AND NFPA 70 SECTION 700. BALLAST BATTERY SHALL MAINTAIN 87.5% OF THE NOMINAL BATTERY VOLTAGE AFTER 1.5 HOURS TO COMPLY WITH NEC SECTION 700 AND UL 924. 49. IDENTIFICATION OF ELECTRICAL ITEMS
- A. PROVIDE PERMANENT IDENTIFICATION MARKING AND NAMEPLATES FOR ALL CONDUCTORS AND EACH ITEM OF ELECTRICAL APPARATUS AND ASSOCIATED CONTROLLED EQUIPMENT, WITH THE SAME INSCRIPTIONS AS SHOWN ON THE DRAWINGS. ALL IDENTIFICATION MARKINGS SHALL BE CLEARLY AND NEATLY APPLIED.
- B. APPLY ENGRAVED PLASTIC LAMINATE NAMEPLATES WITH NON-CORRODING TYPE SCREW FASTENERS OR RIVETS TO ALL MOTOR STARTERS, DISCONNECT SWITCHES, RELAYS, REMOTE CONTROL PANELS, PUSH BUTTON STATIONS, PANELBOARDS, SWITCHBOARDS, TRANSFORMERS, AND OTHER ELECTRICAL APPARATUS. NAMEPLATES SHALL BE WHITE WITH BLACK CORE,
- 1 1/4" X 3" MINIMUM WITH 3/16" HIGH LETTERING. THE NAMEPLATE SHALL IDENTIFY: - NAME OF DEVICE OR - LOAD THE DEVICE IS SERVING
- INSIDE OF THE DOOR, DIRECTLY ABOVE THE CENTERLINE OF THE DIRECTORY FRAME, OR ON THE VERTICAL AND HORIZONTAL CENTERLINE OF DOORS WITHOUT DIRECTORY FRAMES. D. PROVIDE ON DEVICE PLATES FOR LOCAL TOGGLE SWITCHES, TOGGLE SWITCH MANUAL STARTERS, PILOT LIGHTS AND OTHER ELECTRICAL ITEMS, WHOSE FUNCTION IS NOT READILY APPARENT. ENGRAVED SUITABLE INSCRIPTIONS OR PLASTIC LAMINATE NAMEPLATES DESCRIBING THE EQUIPMENT CONTROLLED OR INDICATED.

C. PROVIDE A TYPEWRITTEN DIRECTORY OF CIRCUITS IN LIGHTING AND POWER PANELS AND

PROVIDE PANEL IDENTIFICATION IN BLACK ALKYD PAINT STENCILED INSCRIPTIONS ON THE

- E. EMBOSSED SELF-ADHERING PLASTIC TAPE LABELS WILL NOT BE ACCEPTED. 50. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL EXISTING OR NEW NON-ACCESSIBLE SYSTEM DEVICES, PULLBOXES, AND EQUIPMENT, ETC. FOR RELOCATION TO ACCESSIBLE CEILING AREAS. E.C. SHALL INCLUDE ALL COMPLETE COSTS FOR RELOCATION AND VERIFY SUCH CONDITIONS WITH ARCHITECTURAL CEILING PLANS PRIOR TO FINAL BIDS.
- 51. EXISTING CONDITIONS OF ALL EXISTING BUILDING EQUIPMENT, DEVICES, FIXTURES, AND SYSTEMS THAT REQUIRE REWIRING, REUSE, RELOCATION, OR REFURBISHING AS PER DRAWINGS AND SPECIFICATIONS SHALL BE FIELD VERIFIED BY THE E.C. PRIOR TO COMMENCEMENT OF ANY WORK TO BE COMPLETELY OPERATIONAL. E.C. SHALL SUBMIT A WRITTEN STATEMENT AND ITEMIZED LISTING OF ALL EXISTING CONDITIONS OF THE FOLLOWING, ALTHOUGH NOT LIMITED TO THOSE LISTED:
 - A. HVAC EQUIPMENT
 - B. EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES
 - C. LIFE SAFETY/FIRE ALARM SYSTEM DEVICES D. LIGHTING AND RECEPTACLE DEVICES.

THE WRITTEN STATEMENT SHALL BE SUBMITTED TO THE PROJECT MGR., ARCHITECT, AND ENGINEER PRIOR TO WORK. IN THE EVENT THAT THE CONTRACTOR COMMENCES WORK WITHOUT SUBMITTAL, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND COST TO MAINTAIN THE ABOVE IN GOOD WORKING ORDER AND CONDITION.

AND COMMUNICATIONS OUTLETS. ELECTRICAL ENGINEERING DRAWINGS SHALL BE USED FOR CIRCUITING INFORMATION ONLY.

LOCATIONS OF ALL MECHANICAL AND PLUMBING EQUIPMENT.

- 52. E.C. SHALL REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL ELECTRICAL
- 53. E.C. SHALL REFER TO MECHANICAL AND PLUMBING ENGINEERING DRAWINGS FOR EXACT

EXISTING INFORMATION NOTE:

THE ELECTRICAL PLANS WERE DESIGNED USING IFORMATION AVAILABLE TO ENGINEER. EXISTING INFORMATION MAY BE INCOMPLETE OR MAY HAVE DISCREPANCIES FROM THE EXISTING BUILDING ELECTRICAL SYSTEM. THE CONTRACTOR SHALL VISIT THE SITE TO UNDERSTAND THE NATURE AND SCOPE OF ALL WORK TO BE PERFORMED AND VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. ANY CHANGES REQUIRED DUE TO INCORRECT EXISTING INFORMATION WILL BE THE CONTRACTOR'S RESPONSIBILITY.

ADA NOTE:

LIGHT SWITCHES, ELECTRICAL OUTLETS, THERMOSTAT AND OTHER ENVIRONMENTAL CONTROLS SHALL HAVE OPERABLE PARTS OF THE CONTROLS LOCATED NO HIGHER THAN 48", AND NO LOWER THAN 15", ABOVE THE FLOOR, IF THE REACH IS OVER AN OBSTRUCTION BETWEEN 20" AND 25" IN DEPTH, THE MAXIMUM HEIGHT IS REDUCED TO 44" FOR FORWARD APPROACH, OR 46" FOR SIDE APPROACH, PROVIDED THE OBSTRUCTION IS NO MORE THAN 24" IN DEPTH. OBSTRUCTIONS SHALL NOT EXTEND MORE THAN 25" FROM THE WALL BENEATH A CONTROL.

DEMOLITION NOTES:

REFER TO ARCHITECTURAL DRAWINGS TO VERIFY EXTENT OF DEMOLITION. ALL ELECTRICAL WORK IN NATURE, ie, REMOVING, RELOCATING, RECONNECTION, ETC. CAUSED BY THIS DEMOLITION SHALL BE DEEMED PART OF THE ELECTRICAL CONTRACTOR'S CONTRACT.

ELECTRICAL SCOPE OF WORKS:

- REPLACE EXISTING LIGHTING AT DINING AREA. CUSTOMER SERVICE AREA. VESTIBULE AREA. DRINKING STATION. RESTROOM, CREW ROOM AND PLAYPLACE AREA.
- 2. ADDITION OF TABLE OUTLETS IN DINING AREA.
- 3. RELOCATION OF ORB MONITOR.
- 4. RENOVATION OF P.O.S. COUNTER AND DIGITAL MENU BOARD.
- 5. POWER AND DATA FOR NEW KIOSK AND FLAT SCREEN TV
- 6. POWER FOR NEW LED PUCK LIGHT IN HAPPY MEAL DISPLAY.

DRAWING INDEX

ELECTRICAL SYMBOLS, ABBREVIATIONS, DRAWING INDEX,

ELECTRICAL POWER PLAN

AND SPECIFICATIONS

ELECTRICAL LIGHTING PLAN

ELECTRICAL ONE-LINE DIAGRAM, PANELBOARD SCHEDULE, LOAD CALCULATIONS AND GENERAL NOTES

IECC INTERIOR LIGHTING COMPLIANCE CERTIFICATE

ABBREVIATIONS: ABOVE COUNTER AMPERE FRAME OR FUSE AFCI ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR AFS AUTOMATIC FIRE SPRINKLER AMPS INTERRUPTING CAPACITY RATING AMP. AMPERES **APPR** APPROVED AMPERE SWITCH RATING AMPERE TRIP RATING OF BREAKER AUTO AUTOMATIC AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE AWG BFC BELOW FINISHED CEILING BUILDING MANAGEMENT SYSTEM BMS BREAKER CONDUIT COMPACT FLUORESCENT CIRCUIT CNTRL CONTROL CO CARBON MONOXIDE CURRENT TRANSFORMER COPPER COLD WATER PIPE CWP DEF DEFROST DISC DISCONNECT DIST DISTRIBUTION DWG **ELECTRICAL CONTRACTOR** ELECTRIC DRINKING FOUNTAIN EDF **EVENING LIGHT** ELEV ELEVATION **EMERGENCY LIGHT EMERG EMERGENCY** END OF LINE RESISTOR EOL **EQPT EQUIPMENT**

EXHAUST

EXISTING FUTURE FIRE ALARM ANNUNCIATOR FACP FIRE ALARM CONTROL PANEL FINISHED FLOOR FINISHED GRADE

FLEX FLEXIBLE **FLUOR** FLUORESCENT GFCI GROUND FAULT CURRENT INTERRUPTER GND GROUND

HORSE POWER HERTZ INCANDESCENT SHORT CIRCUIT CURRENT ISOLATED THOUSAND CIRCULAR MILS

KILOVOLTS KILOWATTS KILOVOLT AMPERES LIGHT, LIGHTS LT, LTS LIGHTING MAX MAXIMUM MCB MAIN CIRCUIT BREAKER MCC MOTOR CONTROL CENTER

MLO MAIN LUG ONLY MPOE MAIN POINT OF ENTRY MS MOTION SENSOR MSB MAIN SWITCHBOARD MTMB MAIN TELEPHONE MOUNTING BOARD

NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRIC MANUFACTURER ASSOCIATION NIES NOT IN ELECTRICAL SECTION OF THESE PLANS & SPECIFICATIONS N.I.C. NOT IN CONTRACT

NT NOT TO SCALE OC ON CENTER OFCI OWNER FURNISHED CONTRACTOR INSTALLED OVERLOAD PB PULLBOX PROVIDE FOR FUTURE BREAKER

PFB PIV POST INDICATOR VALVE PNL PANEL PVC POLYVINYL CHLORIDE PWR POWFR RCP REFLECTED CEILING PLAN

NIGHT LIGHT

RECPT RECEPTACLE REQD REQUIRED SHLD SHIELDED SHT SHEET **SPECS SPECIFICATIONS** SWITCH

VFD

SYM SYMMETRICAL **TEMP TEMPERATURE** TOF TIMED OFF DELAY TAMPER SWITCH **TSTAT** THERMOSTAT TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION

TYP TYPICAL UBC UGPS UNIFORM BUILDING CODE UNDERGROUND PULL SECTION UNO UNLESS NOTED OTHERWISE UPS UNINTERRUPTABLE POWER SUPPLY

VARIABLE FREQUENCY DRIVE

VOLTS WATTS WITH **WEATHERPROOF** WPL XFMR WEATHERPROOF LOCKING

TRANSFORMER

ELECTRICAL SYMBOL LEGEND

(NOT ALL SYMBOLS SHOWN MAY BE USED) FLUORESCENT LIGHT FIXTURE - RECESSED

FLUORESCENT LIGHT FIXTURE - RECESSED WITH INTEGRAL BATTERY PACK FOR EMERGENCY OPERATION

FLUORESCENT LIGHT FIXTURE — SURFACE MOUNTED

FLUORESCENT LIGHT FIXTURE - SURFACE MOUNTED WITH INTEGRAL BATTERY PACK FOR EMERGENCY OPERATION

FLUORESCENT LIGHT FIXTURE — WALL MOUNTED

FLUORESCENT STRIP LIGHT - SURFACE MOUNTED

O CEILING LIGHT FIXTURE - SURFACE/RECESSED MOUNTED

LIGHT FIXTURE — WALL MOUNTED

SINGLE HEAD SITE LIGHTING FIXTURE — POLE MOUNTED

TWIN HEAD SITE LIGHTING FIXTURE - POLE MOUNTED

▼ FLOODLIGHT FIXTURE — GROUND MOUNTED

EXIT LIGHT — CEILING OR WALL MOUNTED WITH ARROWS AS SHOWN EMERGENCY LIGHTING FIXTURE - SURFACE MOUNTED

SINGLE RECEPTACLE. MOUNT AT 18" A.F.F. TO CENTER OF RECEPTACLE. U.N.O.

DUPLEX CONVENIENCE OUTLET. MOUNT AT 18" A.F.F. TO CENTER OF RECEPTACLE. U.N.O.

DUPLEX CONVENIENCE OUTLET, ISOLATED GROUND, MOUNT AT 18"

DUPLEX CONVENIENCE OUTLET, SPLIT WIRED, MOUNT AT 18" A.F.F. TO CENTER OF RECEPTACLE. U.N.O.

A.F.F. TO CENTER OF RECEPTACLE. U.N.O. DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTERHEIGHT. MOUNT BOTTOM OF J-BOX AT +44" A.F.F.

FOURPLEX RECEPTACLE, MOUNT AT 18" A.F.F. TO CENTER OF

• FLUSH FLOOR OUTLET WITH BRASS COVERPLATE, U.N.O.

SPECIAL OUTLET, VERIFY NEMA CONFIGURATION WITH EQUIPMENT.

JUNCTION BOX, IN ACCESSIBLE LOCATION. SIZE AND AND TYPE AS INDICATED OR AS REQUIRED

SINGLE POLE SWITCH. MOUNT BOTTOM OF BOX AT +46" A.F.F.,

RECEPTACLE. U.N.O.

\$™Sm H.P./MOTOR RATED SWITCH.

THREE-WAY SWITCH. MOUNT BOTTOM OF BOX AT +46" A.F.F.,

DIMMER SWITCH. MOUNT BOTTOM OF BOX AT +46" A.F.F., U.N.O. TELEPHONE OUTLET, CAT 5E CABLE IN 3/4"C, 4" SQ. BOX WITH SINGLE DEVICE RING AND PLATE. MOUNT AT 18" A.F.F. TO CENTER OF OUTLET. U.N.O.

DATA OUTLET, CAT 5E CABLE IN 3/4"C, 4" SQ. BOX WITH SINGLE DEVICE RING AND PLATE. MOUNT AT 18" A.F.F. TO CENTER OF OUTLET. U.N.O.

COMBINATION TELEPHONE/DATA OUTLET, (2) CAT 5E IN 3/4"C, 4" SQ. BOX WITH SINGLE DEVICE RING AND PLATE. MOUNT AT 18" A.F.F. TO CENTER OF OUTLET. U.N.O.

TELEVISION OUTLET, COAX CABLE IN 3/4"C, 4" SQ. BOX WITH SINGLE DEVICE RING AND PLATE. MOUNT BOTTOM OF J-BOX AT 16" A.F.F., U.N.O.

PANELBOARD - SURFACE MOUNTED - SEE SCHEDULE

PANELBOARD - FLUSH MOUNTED - SEE SCHEDULE

DISCONNECT SWITCH - SIZE AND FUSES PER MANUFACTURER'S RECOMMENDATIONS (WEATHER- PROOF WHERE LOCATED OUTSIDE). MOTOR CONTROLLER - FURNISHED AND INSTALLED BY ELECTRICAL

CONTRACTOR. SIZE FOR EQUIPMENT CONTROLLED OR AS PER COMBINATION DISCONNECT SWITCH AND MOTOR CONTROLLER -

FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. MOTOR, CONNECT AS REQUIRED - SIZE AS INDICATED IN DRAWINGS.

---- CONDUIT RUN CONCEALED BELOW FLOOR OR FINISHED GRADE

—— CONDUIT CONCEALED IN CEILING OR WALL HOMERUN TO RESPECTIVE PANEL - UNDERGROUND.

HOMERUN TO RESPECTIVE PANEL - OVERHEAD. BRANCH CIRCUIT/HOMERUN HASH MARKS INDICATE NUMBER OF

1/2" CONDUIT. CONDUIT RISER - UP OR DOWN

S SPEAKER, CEILING MOUNTED.

PHOTOCELL CONTROLLER "TORK" 2100 SERIES. MOUNTED ON ROOF, FACING NORTH.

CONDUCTORS. NO HASH MARKS INDICATES 2 #12 AWG, 1 #12 BOND,

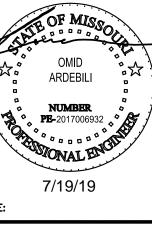
TIME CLOCK "TORK" #DZS200BP, NEMA 3R.

LIGHTING CONTACTOR, 20A ELECTRICALLY HELD 120V COIL IN NEMA 1 ENCLOSURE. (WEATHERPROOF WHERE LOCATED OUTSIDE)

> Electrical Engineer OMID ARDEBILI P.E. 3110 N 45TH PLACE PHOENIX AZ 85050 P: 480.361.6269 F: 480.247.4993 Project Manager: OA Project Number: ED19007

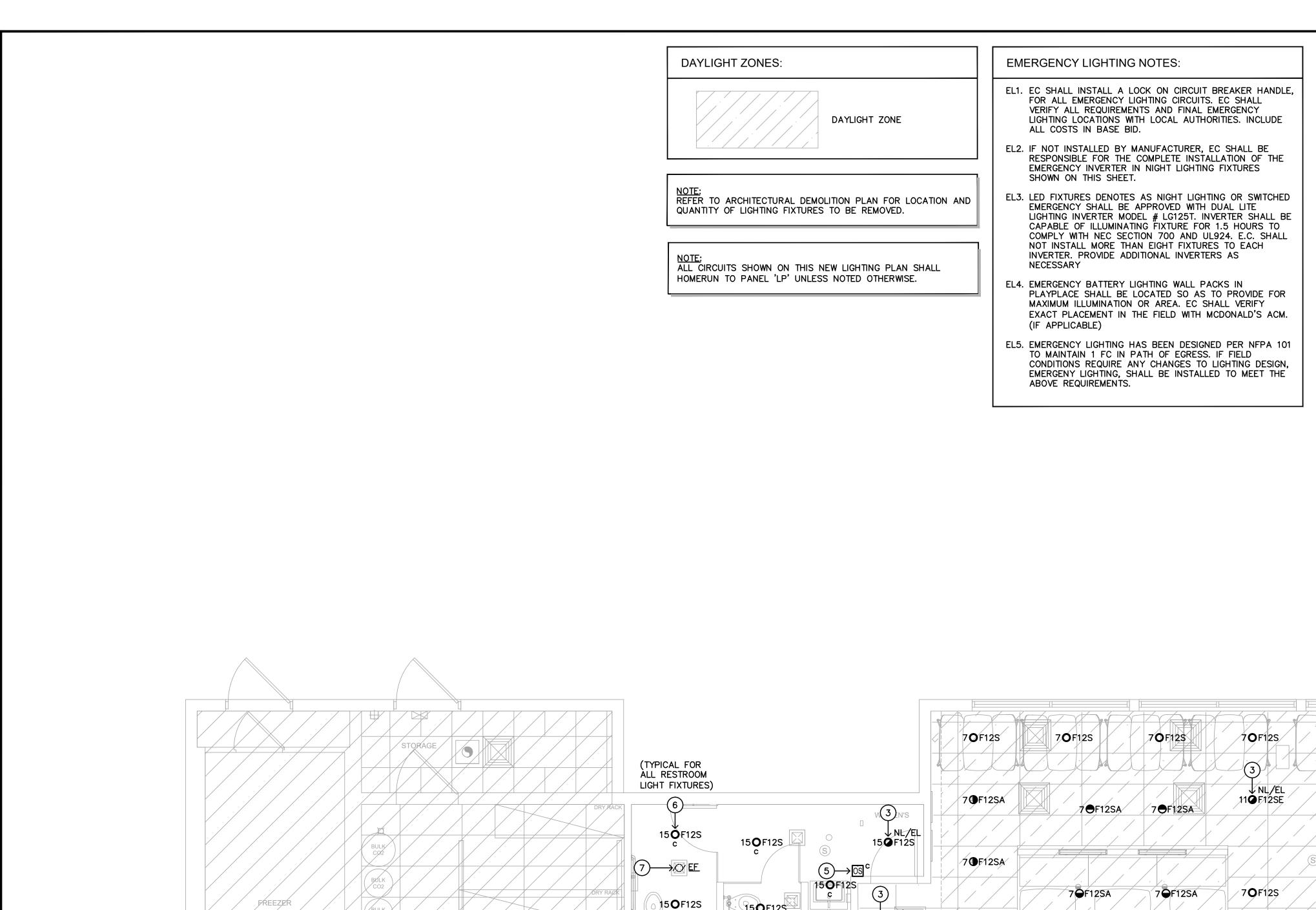
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SIGNED BY:



NAME: OMID ARDEBILI, PE LICENSE NO: PE-2017006932

LS,ABB



7) ->15**O**F12S

bOF12S

(TYPICAL FOR ALL BREAKROOM LIGHT FIXTURES)

a**O**F12S

15**O**F12S

15**O**F12S

(5)11**Ø**F12SE

F12S Q 15 03 0

NOTES:

7**O**F12S

7**O**F12S

36 **O** F13

- ANY EXISTING CONDITIONS INDICATED IN THIS SET OF DRAWINGS ARE BASED ON THE INFORMATION PROVIDED BY OTHERS AND POSSIBLE LIMITED FIELD VERIFICATION. THE CONTRACTOR SHALL ADJUST FOR ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- ELECTRICAL WORK SHALL BE CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. ALL APPLICABLE CODES, ISSUED DRAWINGS AND SPECIFICATIONS.
- IDENTIFICATIONS: PROVIDE PRE-PRINTED MACHINE MADE LABELS AND ATTACH TO EACH WALL PLATE, IDENTIFY PANEL AND CIRCUIT OF CONTROLLED FIXTURES. IDENTIFY CONTAINED CIRCUITS IN EACH JUNCTION AND PULL BOX CLEARLY ON COVER.
- CONDUIT AND RACEWAY SHOWN ARE DIAGRAMMATIC IN NATURE. EXACT ROUTING AND REQUIREMENTS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.
- FLOOR, WALL AND CEILING PENETRATIONS MUST BE SEALED WITH A STOPPING SYSTEM, APPROPRIATE TO THE PENETRATED FLOOR OR WALL TYPE, INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- CIRCUIT CONDUIT AND RACEWAY SHALL BE CONCEALED IN WALL OR CEALING.
- ALL 120V CIRCUIT WIRING ON THIS PLAN SHALL BE SIZED WITH #10 THHN CU CONDUCTORS FOR HOT. NEUTRAL AND GROUND THROUGH-OUT RUN.
- CONTRACTOR SHALL VERIFY THAT THE ADDITIONAL CIRCUIT LOAD DOES NOT EXCEED THE RATED CAPACITY FOR EXISTING CIRCUIT. IF THE LOAD EXCEEDS, THE CONTRACTOR SHALL FORM A NEW CIRCUIT FOR THE NEW LOAD AND CONNECT TO SPARE CIRCUIT AT PANEL.
- 9. LIGHTING CONTROL DEVICES MAY NOT BE COMPATIBLE WITH THE LIGHT FIXTURE. CONTRACTOR SHALL COORDINATE WITH CONTROL MANUFACTURER/SUPPLIER DIMMING COMPATIBILITY WITH THE LIGHT FIXTURE PRIOR TO BID AND ORDERING.
- 10. THE REQUIRED LIGHTING CONTROLS SHALL BE LOCATED WITHIN THE AREA SERVED BY THE CONTROLS OR BE REMOTE SWITCH THAT IDENTIFIES THE LIGHTS SERVED AND INDICATES THEIR STATUS. (ANNUNCIATED LIGHT SWITCH DEVICE)
- 11. E.C. SHALL COORDINATE EXACT LOCATION OF LIGHTING CONTROLS WITH MCDONALD'S CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK.

7**O**F12\$

11**Ø**F12SE

36 **O** F13

36 **O** F13

36 **o** F13

36 **O** F1 3

WESTIBULE

1) -> 3011

7**O**F12S

7**O**F12S

7**6**F12S

11**0** F12SE 7**0** F12S

(#) KEYED NOTES:

- EXISTING ILLUMINATED EXIT SIGN LIGHT FIXTURE WITH SELF-CONTAINED EMERGENCY BATTERY BACK-UP. CONNECT TO LIGHTING CIRCUIT SERVING THE SAME AREA EXCEPT CONNECT AHEAD OF ANY SWITCHING DEVICES. (UNSWITCHED).
- NEW ILLUMINATED EXIT SIGN FIXTURE WITH SELF-CONTAINED BATTERY BACK-UP. CONNECT TO LIGHTING CIRCUIT SERVING THE SAME AREA EXCEPT CONNECT AHEAD ANY OF SWITCHING DEVICES. (UNSWITCHED)
- 3. NIGHT LIGHT/ EMERGENCY LIGHT (NL/EL). CONNECT AHEAD OF ANY SWITCHING DEVICES. (UNSWITCHED)
- 4. PROVIDE WALL SWITCH OCCUPANCY SENSOR WITH DIMMING CAPABILITY AND MANUAL ON/OFF OVERRIDE. WALL SWITCH OCCUPANCY SENSOR WITH DIMMER SHALL BE COMPATIBLE WITH LIGHT FIXTURE DIMMING BALLAST OR
- 5. PROVIDE WALL SWITCH OCCUPANCY SENSOR WITH MANUAL ON/OFF OVERRIDE. VERIFY COMPATIBILITY WITH LIGHT FIXTURE PRIOR TO ORDERING.
- 6. EXISTING RECESSED DOWNLIGHT FIXTURE TO BE REPLACED WITH NEW LED RETROFIT KIT (LED LAMP AND DRIVER). RECONNECT TO ITS EXISTING RESTROOM LIGHTING CIRCUIT. PROVIDE WITH NEW LIGHTING CONTROLLER AS SHOWN ON THE PLAN.
- 7. EXISTING EXHAUST FAN (EF) TO REMAIN.
- 8. EXISTING EMERGENCY LIGHT TO REMAIN.
- 9. EXISTING EMERGENCY LIGHT TO BE REMOVE.
- 10. RECONNECT TO ITS EXISTING BREAK ROOM LIGHTING CIRCUIT. PROVIDE WITH NEW LIGHTING CONTROLLER AS SHOWN ON THE PLAN.



CIRCUIT NUMBER 7 F12S← FIXTURE TYPE

7**D**F12SA

7 **O**F12SA

7**O**F12S

7**O**F12S

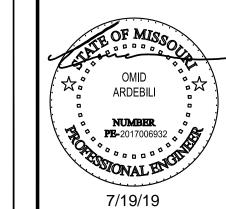
11ØF12SE

70F12S

7**0**F12S

11**2** F1 2SE

4-0



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8

SIGNED BY:

NAME: OMID ARDEBILI, PE **LICENSE NO:** PE-2017006932

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LIGHTING

Electrical Engineer

23110 N 45TH PLACE PHOENIX, AZ 85050 P: 480.361.6269 F: 480.247.4993 Project Manager: OA Project Number: ED1900

OMID ARDEBILI P.E.

ELECTRICAL LIGHTING PLAN

SIGN FIXTURES IN THIS AREA ARE EXISTING TO REMAIN. NO WORK DONE IN THIS AREA.



EXISTING PANEL 'AP1'
EXISTING PANEL 'AP2'
EXISTING PANEL 'AP3'

EXISTING SERVICE ENTRANCE SECTION 'SES-PP'

(#) KEYED NOTES: (CONTINUATION)

- 10. U.L. LISTED RACEWAY PROVIDED WITH COUNTER. INSTALLED BY ELECTRICAL CONTRACTOR.
- 11. RELOCATED DIGITAL MENU BOARD. RELOCATE ALL EXISTING POWER, DATA, ETC. OUTLETS. COORDINATE WITH MCDONALD'S PROJECT MANAGER EXACT LOCATION, MOUNTING HEIGHTS AND REQUIREMENTS. EXTEND WIRES, CONDUITS, AND DATA CABLING TO NEW OUTLET LOCATION IF FEASIBLE, OTHERWISE, RUN NEW WIRING/ CABLING AS REQUIRED. RECONNECT TO ITS EXISTING POWER CIRCUIT AT PANEL/ DATA PORT SERVER.
- 12. RELOCATED EXISTING CEILING MOUNTED ORDER READY BOARD (ORB) TO BE MOUNTED ON WALL. RELOCATE ALL EXISTING POWER AND DATA OUTLETS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT. EXTEND WIRES, CONDUITS, AND DATA CABLING TO NEW OUTLET LOCATION IF FEASIBLE, OTHERWISE, RUN NEW WIRING/ CABLING AS REQUIRED. RECONNECT TO ITS EXISTING POWER CIRCUIT AT PANEL/ DATA PORT SERVER.
- 13. PROVIDE FLUSH TO FLOOR J-BOX FOR COMPLETE CONNECTION OF LED PUCK LIGHT IN HAPPY MEAL DISPLAY. REFER TO I.D. DRAWINGS FOR EXACT LOCATION AND COMPLETE REQUIREMENTS PRIOR TO
- 14. EXISTING DUPLEX RECEPTACLE, DATA AND CABLE OUTLET TO BE REUSED FOR NEW FLAT SCREEN TV. RECONNECT TO ITS EXISTING CIRCUIT AT PANEL.
- 15. NEW ELECTRICAL PANEL 'CP'. MAINTAIN 3 FEET CLEAR SPACE INFRONT OF THE ELECTRICAL PANEL PER NEC 110.26. VERIFY AND COORDINATE WITH THE MCDONALD'S CONSTRUCTION MANAGER EXACT LOCATION PRIOR TO COMMENCEMENT OF WORK. SEE ONE-LINE DIAGRAM ON SHEET E4.0

(#) KEYED NOTES:

- PROVIDE JUNCTION BOX WITHIN CEILING FOR COMPLETE CONNECTION OF NEW KIOSK. PROVIDE 2 #10 THWN CU., 1 #10 CU. BOND AND 1 #10 ISOLATED GRÖUND ON A 20A DEDICATED CIRCUIT FED FROM ELECTRICAL PANEL FOR EVERY ONE (1) DOUBLE SIDED OR TWO (2) SINGLE SIDED KIOSK.
- RUN (1) 3/4" E.C. WITH PULLWIRE TO MTMB FOR NEW KIOSK LV DATA CABLING.
- NEW P.O.S. COUNTER. RELOCATE ALL EXISTING RECEPTACLE, DATA, ETC. OUTLETS OR U.N.O. EXTEND WIRES, CONDUITS, AND DATA CABLING TO NEW OUTLET LOCATION IF FEASIBLE, OTHERWISE, RUN NEW WIRING/ CABLING AS REQUIRED. RECONNECT TO ITS EXISTING POWER CIRCUIT AT PANEL/ DATA PORT SERVER.
- WIRE WITH 2 #10 THWN CU., 1 #10 CU. BOND, 3/4"C. (THROUGH-OUT RUN)
- PROVIDE 20A, 120V, 1PH DUPLEX RECEPTACLE FOR ORDER READY BOARD 'ORB' MONITOR (MINI).
- PROVIDE 20A, 120V, 1PH DUPLEX RECEPTACLE FOR ORDER READY BOARD 'ORB' SCANNER.
- COUNTER BAKED GOODS DISPLAY CASE.

20A, 120V, 1PH DUPLEX RECEPTACLE FOR FUTURE ABOVE

- WIRE WITH 2 #12 THWN CU., 1 #12 CU. ISOLATED GRD, 1 #12 CU GRD, 3/4"C. (THROUGH-OUT RUN)
- NEW 4"X4"X4" PULLBOX MOUNTED AT +10"A.F.F. PROVIDE 2-1/2"C WITH PULLWIRE AND EXTEND TO ABOVE CEILING FOR POS AND DATA CABLES. RUN CONDUIT IN ADJACENT FULL HEIGHT WALL. COORDINATE EXACT LOCATION AND CONDUIT ROUTING WITH MCDONALD'S PROJECT MANAGER PRIOR TO ROUGH-IN.

NOTES:

KIOSK 2

TO MTMB ←

KIOSK 1

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- 3. IDENTIFICATIONS: PROVIDE PRE-PRINTED MACHINE MADE LABELS AND ATTACH TO EACH WALL PLATE. IDENTIFY PANEL AND CIRCUIT OF CONTROLLED FIXTURES, IDENTIFY CONTAINED CIRCUITS IN EACH JUNCTION AND PULL BOX CLEARLY ON COVER.
- 4. CONDUIT AND RACEWAY SHOWN ARE DIAGRAMMATIC IN NATURE. EXACT ROUTING AND REQUIREMENTS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO INSTALLATION.
- 5. FLOOR, WALL AND CEILING PENETRATIONS MUST BE SEALED WITH A STOPPING SYSTEM, APPROPRIATE TO THE PENETRATED FLOOR OR WALL TYPE, INSTALLED IN
- 6. CIRCUIT CONDUIT AND RACEWAY SHALL BE CONCEALED IN WALL OR CEILING.

ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

- ALL 120V CIRCUIT WIRING ON THIS PLAN SHALL BE SIZED WITH #12 THHN CU CONDUCTORS FOR HOT. NEUTRAL AND GROUND THROUGH-OUT RUN U.N.O.
- 8. LOCATION, MOUNTING HEIGHTS AND ADDITIONAL REQUIREMENTS OF ALL NEW POWER OUTLET, DATA OUTLET, CONDUIT STUB-OUT, ETC. SHALL BE COORDINATED WITH MCDONALD'S PROJECT MANAGER PRIOR TO COMMENCEMENT OF WORK.
- 9. LOCATION, MOUNTING HEIGHTS, ADDITIONAL REQUIREMENTS AND DETAILS OF FRONT COUNTER MODIFICATION WORKS. REFER TO MCDONALD'S MODULAR FRONT COUNTER STANDARD DRAWINGS.
- 10. ALL NEW DINING AREA RECEPTACLE OUTLETS SHALL BE COMBINATION USB CHARGER AND TAMPER-RESISTANT DUPLEX OUTLET, U.N.O. MANUFACTURED BY HUBBELL USB15X2W.





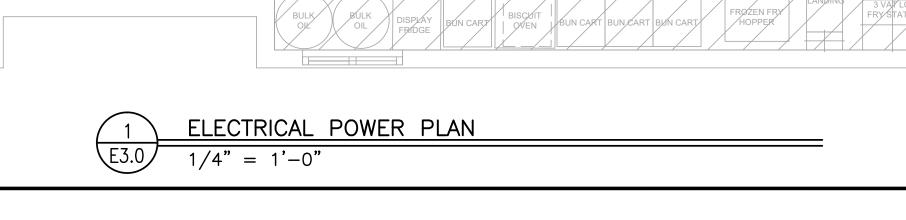
NAME: OMID ARDEBILI, PE

LICENSE NO: PE-2017006932

PLAN

Electrical Engineer OMID ARDEBILI P.E.

23110 N 45TH PLACE PHOENIX, AZ 85050 P: 480.361.6269 F: 480.247.4993 Project Manager: OA Project Number: ED19007



(15) NEW PANEL 'CP'

ALL EXISTING POWER, TELEPHONE, DATA, ETC IN THIS AREA ARE EXISTING TO REMAIN. NO WORK DONE IN THIS AREA.

				ARD SCHEDULE						<u>'LP'</u>						EXISTING	PANE	ELBO	DAR	D
	MOU ENCL	NTIN	G	OFFICE FLUSH NEMA 1			VOLTA PHASE WIRE		120	/ 3 4	208				MAINS R C.B. TYP	ATING 250A MLO				
NOTE		RE SI		CIRCUIT DESCRIPTION / AREA SERVED	CONN. LOAD (VA)	СВ	POLE	CKT NO.	DEMA	ND LOAD	C (VA)	CKT NO.	POLE	СВ	CONN. LOAD (VA)	CIRCUIT DESCRIPTION / AREA SERVED	H	IRE SI		NO
				TRANSFORMER	0			1	0 1200			2	1	20	1200	OFFICE RECEPT ABOVE N. CABINET	EX	EX	EX	E
					0			3		0 1200		4	1	20	1200	OCS SYSTEM - COD	EX	EX	EX	E
					0			5	\triangle	1200	0 1200	6	1	20	1200	FRENCH FRYER	EX	EX	EX	E
,2,N ,S	10	10	10	LTS - DINING / VESTIBULE / DRINKING STATION (RECESSED DOWNLIGHT)	528	20	1	K	660		1200	8	1	20	900	ROOF BEAMS	EX	EX	EX	1,
,EX	EX	EX	EX	COUNTER LIGHTS	900	20	1	9	1120	1125	\triangle	10	1	20	1200	FRONT BUILD	EX	EX	EX	Е
,2,7, N.S	10	10	10	LTS - NIGHT LIGHTS / EMERGENCY LIGHTS	170	20	1	11		12.00	212.5 1125	12	1	20	900	ROOF BEAMS	EX	EX	EX	1,
13	EX	EX	EX	NIGHT LIGHTS	900	20	1	13	1125 720		1120	14	1	20	720	ROOFRECEPTACLE	EX	EX	EX	Е
,EX	EX	EX	EX	LTS - RESTROOM	132	20	1	15	-	165		16	1	20	900	SOFFIT LIGHTS	EX	EX	EX	1,
,EX	EX	EX	EX	UNDERCOUNTER LIGHTS	900	20	1	17		1120	1125 1125	18	1	20	900	SOFFIT LIGHTS	EX	EX	EX	1,
,EX	EX	EX	EX	KITCHEN LIGHTS	900	20	1	19	1125 1125		1120	20	1	20	900	SOFFIT LIGHTS	EX	EX	EX	1,
,EX	EX	EX	EX	KITCHEN LIGHTS	900	20	1	21		1125 1125		22	1	20	900	SOFFIT LIGHTS	EX	EX	EX	1,
EX	EX	EX	EX	DINING RECEPTACLE	1080	20	1	23		,,,,,	1080 1500	24	1	20	1200	FASCIA SIGN	EX	EX	EX	1,
,EX	EX	EX	EX	FLAG LIGHTS	900	20	1	25	1125 1125		1000	26	1	20	900	PARKING LOT LIGHTS	EX	EX	EX	1.
EX	EX	EX	EX	ESMS	1200	20	1	27	1120	1200 1125	1	28	1	20	900	PARKING LOT LIGHTS	EX	EX	EX	1,
EX	EX	EX	EX	ROAD SIGN DCO	180	20	1	29		TILO	180 1125	30	1	20	900	PARKING LOT LIGHTS	EX	EX	EX	1,
,EX	EX	EX	EX	SEC. LTS. & DR. ALARM	900	20	1	31	1125 1125		1120	32	1	20	900	PARKING LOT LIGHTS	EX	EX	EX	1,
,EX	EX	EX	EX	DT MENU BOARD	900	20	1	33	1125	1125 1125	1	34	1	20	900	PARKING LOT LIGHTS	EX	EX	EX	1,
EX	EX	EX	EX	FLAT GRILL STATION	1200	20	1	35		1	1200	36	1	20	325	LTS - CUSTOMER SERVICE / POS	10	10	10	1,
EX	EX	EX	EX	CLAM GRILL STATION	1200	20	1	37	1200 1500		<u> </u>	38	2	30	1200	ROAD SIGN	EX	٠.	EX	
EX	EX	EX	EX	FILET FRYER	1200	20	1	39	1000	1200 1500		40			1200	130	EX			1,
EX	EX	EX	EX	FILET FRYER	1200	20	1	41	~	\	1200		1	20	900	ROOF BEAMS	EX	EX	EX	1,
OT/	AL I	OAD	PF	R PHASE				+	14280	14340	126	1		1		14.340 VA / 120 V = 120	AME	PS		_

PΑ	NE	LE	30	ARD SCHEDULE						<u>'CP'</u>						PROVIDE WITH ISOLATED GR	OUN	D BL	ISS	
		AOITA NITIN USO.	G	BACK OF HOUSE FLUSH NEMA 1	SL		VOLTA PHASE WIRE		120	/ 3 4	208				MAINS R C.B. TYP	ATING 125A MLO	ERIES 65-10			
NOTE		RE S	ZE H	CIRCUIT DESCRIPTION / AREA SERVED	CONN. LOAD (VA)	СВ	POLE	CKT NO.	DEMA	ND LOA	DS (VA)	CKT NO.	POLE	СВ	CONN. LOAD (VA)	CIRCUIT DESCRIPTION / AREA SERVED	H	RE SI	ZE G	NO
	10	10	10	KIOSK 1	720	20	1	1	720 1080			2	1	20	1080	RECEPT - DINING	10	10	10	
	10	10	10	KIOSK 2	720	20	1	3		720 720	-	4	1	20	720	RECEPT - DINING	10	10	10	
	12	12	12	RECEPT - P.O.S. COUNTER (FUTURE GOOD DISPLAY CASE)	360	20	1	5			360 720	6	1	20	720	RECEPT - DINING	12	12	12	
	12	12	12	RECEPT - SERVING AREA ORB MONITOR (MINI) / ORB SCANNER	360	20	1	7	360 0			8	1	20	0	SPARE				
	12	12	12	J-BOX FOR PUCK LIGHT IN HAPPY MEAL DISPLAY	180	20	1	9		180	-	10	1	20	0	SPARE	П			
				SPARE	0	20	1	11			0 540	12	1	20	540	RECEPT - CREW ROOM	12	12	12	
	-			SPARE	0	20	1	13	0		-	14	1	20	0	SPARE				
				SPARE	0	20	1	15		0	-	16	1	20	0	SPARE				
				SPARE	0	20	1	17			0	18	1	20	0	SPARE	П			
				SPACE	0			19	0			20			0	SPACE				
				SPACE	0			21		0	-	22			0	SPACE				
				SPACE	0			23			0	24			0	SPACE				
				SPACE	0			25	0	1		26			0	SPACE				
				SPACE	0			27	-	0		28			0	SPACE				
				SPACE	0			29			0	30			0	SPACE				
оти	AL L	OAD	PE	R PHASE				_	2160	1620	1620				-	2,160 VA / 120 V = 18	AME	s	_	

PANELBOARD SCHEDULE NOTES: (NOT ALL NOTES MAY BE USE

- 1 CONTINUOUS LOAD OR LARGEST MOTOR TAKEN AT 125%.
- 2 VIA TIMECLOCK/CONTACTOR 3 - CIRCUIT BREAKER WITH LOCK-ON DEVICE.
- 4 CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OPEN POSITION
- 5 CIRCUIT BREAKER WITH GROUND FAULT CIRCUIT INTERRUPTER
- 6 CIRCUIT BREAKER WITH SHUNT TRIP
- 7 LABEL IN RED BOLD LETTERS "EMERGENCY LIGHT" IN COMPLIANCE WITH NEC 700.12(F)

PANELBOARD GENERAL NOTES:

1.) EACH MULTIWIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT FOR SINGLE PHASE INSTALLATION: PROVIDE 2-POLE CIRCUIT BREAKER OR (2) SINGLE-POLE CIRCUIT BREAKERS WITH U.L. LISTED HANDLE-TIE.

FOR THREE PHASE INSTALLATION: PROVIDE 3-POLE CIRCUIT BREAKERS OR (3) SINGLE-POLE CIRCUIT BREAKERS WITH U.L. LISTED HANDLE-TIE.

2.) THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTIWIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD

EX - DENOTES EXISTING LOAD/ WIRE/ CIRCUIT BREAKER

NE - DENOTES NEW LOAD ON EXISTING CIRCUIT BREAKER.

SEE FAULT CURRENT CALCULATION.

R - DENOTES EXISTING LOAD TO BE REMOVED.

S - NEW SWITCH RATED CIRCUIT BREAKER

N - DENOTES NEW LOAD AND CIRCUIT BREAKER TO MATCH EXISTING

MAKE, MODEL, TYPE, ETC. COORDINATE WITH MANUFACTURER

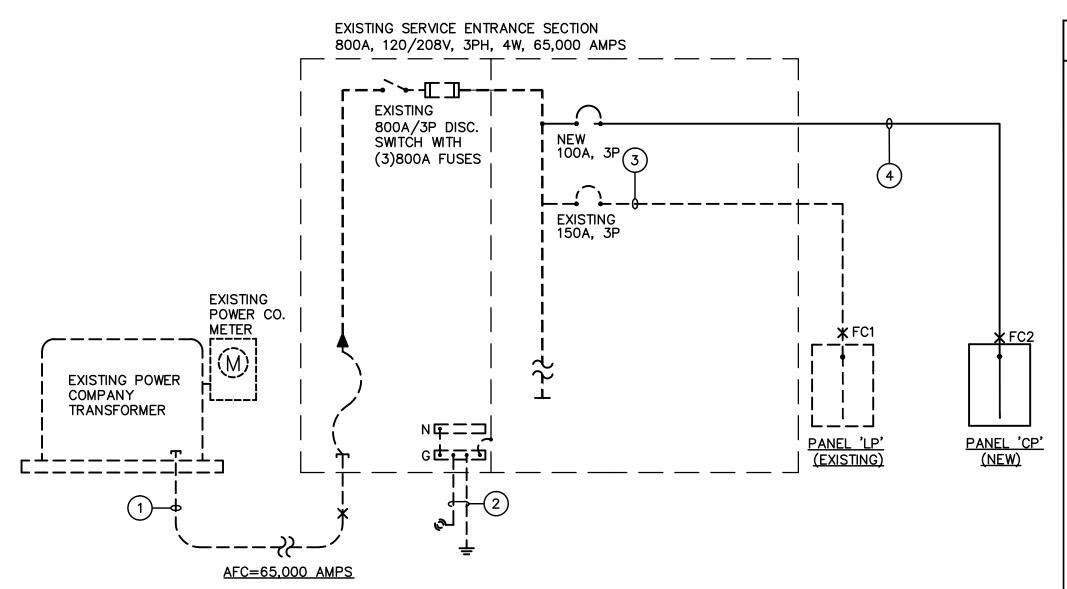
ORRECT TYPE OF CIRCUIT BREAKER TO ACHIEVE SERIES RATING

SYSTEM, 65-10 KAIC PRIOR TO ORDERING. IF NOT FEASIBLE, FULLY RATE NEW CB.

3.) ELECTRICAL CONTRACTOR SHALL PROVIDE TYPE WRITTEN PANELBOARD CIRCUIT DIRECTORY CARDS FOR EACH PANELBOARD THAT LEGIBLY IDENTIFY EVERY CIRCUITS CLEAR, EVIDENT AND SPECIFIC PURPOSE OR USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUITS TO BE DISTINGUISHED FROM ALL OTHERS (NEC 408.4) ADDITIONALLY, ELECTRICAL CONTRACTOR SHALL ETCH OR PERMANENTLY MARK THE COVERPLATES OF RECEPTACLES AND THE JUNCTION BOXES OF LUMNAIRES AND EQUIPMENT WITH THE CIRCUIT'S IDENTIFICATION (STICK-ON LABELS ARE NOT ACCEPTABLE). TAG EACH CIRCUIT CONDUCTOR AT EACH JUNCTION BOX, OUTLET, SWITCH, ETC. WITH THE CIRCUIT'S IDENTIFICATION. (PANEL ORIGINATION AND CIRCUIT NO.)

4.) ELECTRICAL CONTRACTOR SHALL UPDATE PANELBOARD DIRECTORIES.

FIXTURE	MANUFACTURER	DESCRIPTIONICATALOGNO		LAMPS	VOLT	MOUNTING &	DEMARKS	SEE
ID	MANUFACTURER	DESCRIPTION/CATALOG NO.	NO	TYPE	VOLI	HEIGHT	REMARKS	NOTE
F12S	SECURITY LIGHTING	LB6LEDA10L-35K-9-SA / DBXQL	1	12W LED 1038 LUMENS	120	RECESSED/ CEILING	6" LED RECESSED DOWNLIGHT WITH ANONIZED TRIM	
F12SE	SECURITY LIGHTING	LB6LEDA10L-35K-9-SA / DBXQL / LG125TXX	1	12W LED 1038 LUMENS	120	RECESSED/ CEILING	6" LED RECESSED DOWNLIGHT WITH ANONIZED TRIM XX-VERIFY CEILING TYPE. REFER TO LIGHTING PLAN ON SHEET E2.0	
F12SA	SECURITY LIGHTING	LB6LEDA10L-35K-9-WW-SA / DBXQL	1	12W LED 1038 LUMENS	120	RECESSED/ CEILING	LED ADJUSTABLE WALL WASHER DOWNLIGHT	
F12R	SECURITY LIGHTING	LBXXXLEDR-10L359XX/RK-CFR	1	12W LED 1038 LUMENS	120	RECESSED/ CEILING	FIELD VERIFY RECESSED DOWNLIGHT DIAMETER SIZE (4", 6" OR 8") AND TRIM COLOR.	
F13	SECURITY LIGHTING	LF4SL-4LFSL20L-35K-SP-SL-DL-B24	1	25W LED 2000 LUMENS	120	RECESSED/ CEILING	4" LED RECESSED DOWNLIGHT	
F13E	SECURITY LIGHTING	LF4SL-4LFSL20L-35K-SP-SL-DL-B24/ LG125TXX	1	25W LED 2000 LUMENS	120	RECESSED/ CEILING	4" LED RECESSED DOWNLIGHT XX-VERIFY CEILING TYPE. REFER TO LIGHTING PLAN ON SHEET E2.0	
F20	F20 SECURITY LIGHTING EVEURWE		0.25	FURNISHED / FIXTURE	120	SURFACE/ CEILING	FIXTURE SHALL HAVE INTEGRAL BATTERY BACK-UP. SEE LIGHTING PLAN.	



ONE-LINE DIAGRAM (PARTIAL) SCALE : NONE

IMPORTANT NOTES:

- ELECTRICAL CONTRACTOR SHALL CONDUCT ELECTRICAL LOAD MONITORING TEST TO EXISTING PANELS 'LP' IN ACCORDANCE WITH NEC 220.87, TO ENSURE EXISTING PANEL CAN ACCOMMODATE NEW LOADS, PRIOR TO COMMENCEMENT OF WORK. PROVIDE ENGINEER OF RECORD WITH THE RESULTS. COORDINATE WITH ENGINEER OF RECORD FOR FURTHER DIRECTION. (LOAD MONITORING TEST SHALL CONTINUOUSLY RECORDED OVER A MINIMUM 30-DAY PERIOD MEASURING OF AVERAGE POWER DEMAND OVER A 15-MINUTE PERIOD, NEC 220.87 (1) EXCEPTION.)
- ELECTRICAL CONTRACTOR SHALL SECURE 'SES-PP' HIGH KW DEMAND FROM POWER COMPANY, PRIOR TO COMMENCEMENT OF WORK. PROVIDE ENGINEER OF RECORD WITH THE DATA. COORDINATE WITH ENGINEER OF RECORD FOR FURTHER DIRECTION.
- CHANGES ON THE ELECTRICAL DESIGN WHICH RESULTED FROM THE LOAD TEST FROM THE EXISTING PANELS AND 'SES-PP', SHALL REQUIRE ELECTRICAL PLAN CITY RESUBMITTAL.

LOAD CALCULATIONS SUMMARY REMOVED LIGHTING LOADS: DINING AREA/CUSTOMER SERVICE AREA/P.O.S. AREA/BREAK ROOM/RESTROOM: (53) RECESSED DOWNLIGHT AT 12W LED EACH .. = 636 VA (10) RECESSED DOWNLIGHT (1-13W CFL) AT 14W EACH ... = 140 VA (2) 2'X4' FLOURESCENT RECESSED (3-32W T8 LAMPS) AT 95W EACH .. **NEW LIGHTING/POWER LOADS:** DINING AREA/CUSTOMER SERVICE AREA/P.O.S. AREA/BREAK ROOM/RESTROOM: (58) TYPE 'F12S' & 'F12SE'; LED RECESSED DOWNLIGHT AT 12W EACH = (13) TYPE 'F12SA'; LED WALL WASHER AT 12W EACH = 156 VA (15) TYPE 'F13' & 'F13E'; LED RECESSED DOWNLIGHT AT 25W EACH (17) RECEPTACLE AT 180W EACH = 3060 VA (1) RECEPTACLE FOR FLAT SCREEN TV AT 300W EACH .. = 300 VA (2) KIOSK AT 720W EACH (1) RECEPT FOR ORB MINI MONITOR AND ORB SCANNER ... = 360 VA (2) RECEPT FOR FUTURE BAKED GOODS DISP. CASE AT 180W EACH TOTAL NEW ADDED LOADS (NEW LOADS - REMOVED LOADS) TOTAL NEW ADDED LOADS THIS PROJECT IN AMPS (AT 120/208V, 3PH)

		FAUL1	CURREN	IT CAL	CULATIONS	S (THRE	E PHAS	E)				9
FAULT 'FCn'	POINT OF CALCULATED FAULT	FAULT ORIGIN	FAULT @ ORIGIN AFC	LINE VOLTS (V)	CU-MAG=1 CU-NMAG=2 AL-MAG=3 AL-NMAG=4	WIRE LENGTH L (FT)	WIRE SIZE (AWG)	NO OF SETS N	"C" VALUE (COND.)	"f" FACTOR	"M" FACTOR 1 (1+F)	CALCULATED FAULT 'FC'
FC1	PANEL 'LP1'	SES-MDP	65,000	208	1	32	1/0	1	8925	1.94	0.34	22,121
FC2	PANEL 'CP'	SES-MDP	65,000	120	2	29	1	1	7493	3.63	0.22	14,049

FAULT CURRENT NOTES:

- 1. PROVIDE ENGRAVED NAMEPLATES TO COMPLY WITH NEC 110.22 AS FOLLOWS
 - A. NAMEPLATE AT DOWNSTREAM PANEL 'CP' TO READ: (FOR TWO TIERED SERIES RATED SYSTEMS)
- CAUTION SERIES COMBINATION SYSTEM RATED 65,000/10.000 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED. 2. NO DESIGN CHANGES MAY BE MADE TO THE SYSTEMS WITHOUT PRIOR APPROVAL FROM THE DESIGN ELECTRICAL ENGINEER AND THE ELECTRICAL
- INSPECTOR. 3. REFER TO PANELBOARD SCHEDULES FOR PANEL RATING.
- 4. CONDUCTOR LENGTH SHOWN ARE SHORTEST PATH FOR USE IN CALCULATIONS ONLY AND ARE NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION. ACTUAL LENGTH MUST BE FIELD MEASURED AND VERIFY BY THE CONTRACTOR, AND REPORTED TO ENGINEER IF DESIGN CHANGES ARE REQUIRED.

GENERAL NOTES:

- CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS UNDER WHICH HE IS TO PERFORM HIS WORK. NO ALLOWANCE WILL BE MADE FOR FAILURE TO COMPLY.
- ELECTRICAL WORK SHALL COMPLY WITH THE LATEST ENACTED EDITIONS OF THE NEC AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES AND ORDINANCES.
- FURNISH AND INSTALL ALL NECESSARY LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS REQUIRED TO INSTALL COMPLETE AND OPERATIONAL ELECTRICAL SYSTEMS ACCORDING TO THE INTENT OF THESE DRAWINGS AND ASSOCIATED SPECIFICATIONS WHETHER ITEMIZED OR NOT.
- THE ELECTRICAL CONTRACTOR SHALL HAVE THOROUGHLY EXAMINED THE SITE AND FAMILIARIZED HIMSELF WITH THE EXISTING CONDITIONS, AND SHALL HAVE MADE ALLOWANCE THEREFORE IN PREPARING HIS PROPOSAL. HE SHALL VERIFY EXISTING CONDITIONS, PULL BOXES, ELECTRICAL DISTRIBUTION SYSTEMS AND DEMOLITION REQUIREMENTS PRIOR TO SUBMITTING A BID.
- IN THE EVENT OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE DRAWINGS, THE ELECTRICAL CONTRACTOR SHALL BID NEW CONDITIONS, WIRES AND NECESSARY EQUIPMENT IN ORDER TO COMPLETE THE JOB AND PROVIDE A FULLY OPERABLE AND AND ACCEPTABLE SYSTEMS. EXTRAS WILL NOT BE ALLOWED FOR WORK NOT INDICATED OR NOTED ON THE DRAWINGS WHEN SUCH WORK IS APPARENT FROM AN INSPECTION OF THE PREMISES AT THAT TIME.
- ALL MATERIALS USED ON THIS PROJECT SHALL BE LISTED AND BEAR THE LABEL OF UNDERWRITERS LABORATORIES AND APPROVED FOR ITS INTENDED USE.
- ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND NEC 110.3.
- ALL EQUIPMENT EXPOSED TO WEATHER CONDITIONS SHALL BE WEATHERPROOF, NEMA RATED AS REQUIRED PER NEMA AND U.L. STANDARDS UNO.
- ALL RACEWAYS AND CONDUITS SHALL HAVE A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR COLOR GREEN, SIZED IN CONFORMITY WITH NEC 250.122.
- 10. ADDITIONAL EXIT SIGNS AND EMERGENCY LIGHTING MAY BE REQUIRED. ADDITIONAL FIXTURES SHALL BE LOCATED AS DIRECTED BY THE LOCAL BUILDING INSPECTOR OR ARCHITECT.
- 11. THE ELECTRICAL CONTRACTOR SHALL TAG EACH CIRCUIT CONDUCTOR AT EACH JUNCTION BOX, OUTLET, SWITCH, ETC. WITH THE CORRESPONDING PANEL AND BRANCH CIRCUIT DESIGNATION IN COMPLIANCE WITH NEC 408.4 FOR REQUIRED CIRCUIT IDENTIFICATION.
- WORKMANSHIP SHALL BE OF THE HIGHEST GRADE. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE APPROVAL OF THE OWNER.

KEYED NOTES:

- 1. EXISTING POWER COMPANY SECONDARY FEEDERS.
- 2. EXISTING GROUNDING SYSTEM TO REMAIN.
- 3. EXISTING 4 #1/0 CU., 1 #6 CU. BOND IN 2"C.
- 4. NEW 4 #1 XHHW CU., 1 #4 CU. ISOLATED GRD. 1 #6 CU. GRD IN 1-1/2°C.

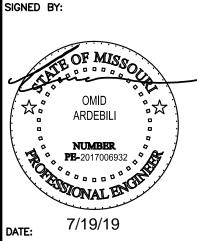
THE FEEDER SIZES SHOWN ON THE ONE-LINE DIAGRAM WERE SIZED BASED ON THE SIZE OF OVER CURRENT PROTECTION (CB/FUSE) RATINGS, PER NEC TABLE 310.16. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDUCTOR SIZES PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES SHALL INFORM THE ENGINEER OF RECORD.

RENOVATION NOTES:

- ELECTRICAL SYSTEM LAYOUTS INDICATED ARE GENERALLY DIAGRAMMATIC AND LOCATIONS OF OUTLETS AND EQUIPMENT ARE APPROXIMATE: EXACT ROUTING OF RACEWAYS, CABLES, WIRING, LOCATIONS OF OUTLETS AND EQUIPMENT SHALL BE GOVERNED BY STRUCTURAL CONDITIONS AND COORDINATED WITH WORK OF OTHER TRADES. DO NOT SCALE INFORMATION OFF OF DRAWINGS, UNLESS EXACT DIMENSIONS ARE GIVEN.
- 2. ANY ITEMS NOT MENTIONED ON THESE NOTES OR NOT INDICATED ON THE PLANS BUT WHICH ARE NECESSARY FOR SUCCESSFUL AND EFFICIENT OPERATION OF THE WORK SHALL BE HELD TO BE IMPLIED AND SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTRACT.
- 3. GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
- 4. EXISTING CONDUIT RUNS ARE GENERALLY NOT SHOWN. EXISTING RUN SHALL BE VERIFIED AS TO EXACT LOCATION.
- 5. EXISTING ELECTRICAL WIRING WHICH WILL NOT BE MADE OBSOLETE AND WHICH WILL BE DISTURBED DUE TO CONSTRUCTION CHANGES REQUIRED BY THIS CONTRACT SHALL BE RESTORED TO OPERATING CONDITION, AS REQUIRED AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE SHOWN AND/OR DIRECTED, OUTLETS AND CONDUIT RUNS SHALL BE RELOCATED. IN SOME CASES IT MAY BE NECESSARY TO EXTEND CONDUITS AND PULL IN NEW WIRING OR INSTALL JUNCTION BOXES AND SPLICE IN NEW WIRING OR REPLACE OLD WIRING WITH NEW.
- 6. MAINTAIN CONTINUITY OF CIRCUIT WHERE EXISTING EQUIPMENT OR DEVICE IS TO BE REMOVED AND DOWN STREAM DEVICES MAY BE AFFECTED.
- OUTLETS FROM WHICH FIXTURES, SWITCHES, RECEPTACLES AND/OR OTHER ELECTRICAL DEVICES ARE MOVED AND WHICH ARE NOT REPLACED OR REUSED SHALL BE REMOVED OR, IF IT IS NOT POSSIBLE TO REMOVE, PLACE A BLANK COVER ON THE OUTLET BOX. WHERE OUTLETS. BOXES, ETC., ARE COMPLETELY REMOVED, THE CONTRACTOR SHALL CUT OFF CONDUITS AND REMOVE
- WHERE CONDUITS EXTENDING THROUGH FLOORS ARE TO BE ABANDONED, THE CONTRACTOR SHALL CUT AND CAP OR PLUG CONDUIT, THAT IT WILL NOT PROTRUDE ABOVE THE
- WHERE EXISTING CONDUIT IS TO BE ABANDONED, THE CONDUIT SHALL BE REMOVED IF IT IS EXPOSED, IN A CRAWL SPACE OR IN AN ACCESSIBLE CEILING. REMOVE ALL CONDUIT AND WIRE BACK TO PANEL IF NOT BEING REUSED. WHERE IT IS IMPOSSIBLE TO REMOVE THE CONDUIT, IT SHALL BE CUT OFF CAPPED OR PLUGGED.
- 10. THE CONTRACTOR SHALL FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING PAINTING AND/OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THIS SPECIFICATION. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- 11. THE CONTRACTOR SHALL EMPLOY QUALIFIED AND EXPERIENCED WORKMEN FOR THIS WORK. ALL RESTORATION WORK SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.
- THE CONTRACTOR SHALL EXERCISE CARE SO THAT ONLY THE CONSTRUCTION INDICATED OR REASONABLY IMPLIED TO REMOVED SHALL BE DEMOLISHED. THE EXISTING CONSTRUCTION TO REMAIN SHALL BE LEFT INTACT AND UNDAMAGED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLITION AND CONSTRUCTION DEBRIS GENERATED FROM ALL WORK. TAKING CARE TO PREVENT EXCESSIVE LOADING OF FLOOR ASSEMBLIES.

- PROVIDE ARC-FLASH MARKINGS. SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS THAT ARE IN OTHER THAN DWELLING OCCUPANCIES AND ARE LIKELY TO REQUIRE EXAMINATION. ADJUSTMENT. SERVICING, OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT. IN COMPLIANCE WITH N.E.C. 110.16.
- 2. COORDINATE WITH PANELBOARD MANUFACTURER CORRECT TYPE OF CIRCUIT BREAKERS TO ACHIEVE SERIES RATING SYSTEM PRIOR TO ORDERING. IF NOT FEASIBLE, FULLY RATE NEW CIRCUIT BREAKER. SEE FAULT CURRENT CALCULATIONS FOR MINIMUM SHORT CIRCUIT RATING.
- ELECTRICAL CONTRACTOR SHALL UPDATE PANELBOARD CIRCUIT DIRECTORIES.

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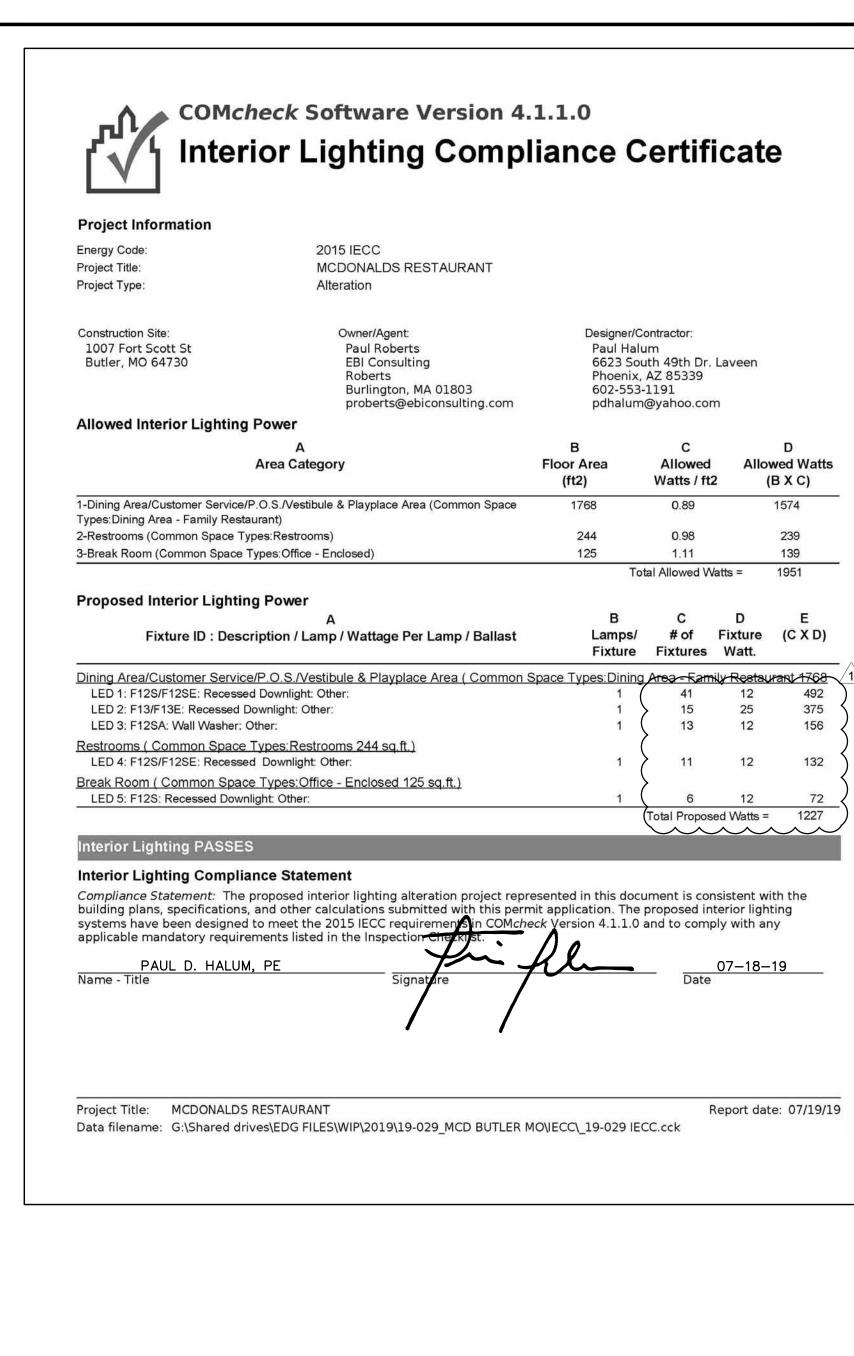
NAME: OMID ARDEBILI, PE **LICENSE NO:** PE-2017006932

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Electrical Engineer

23110 N 45TH PLACE PHOENIX, AZ 85050 P: 480.361.6269 F: 480.247.4993 Project Manager: OA Project Number: ED1900

OMID ARDEBILI P.E.





SIGNED BY:

OF MISSON

OMID

ARDEBILI

NUMBER

PE-2017006932

7/19/19

DATE:

NAME: OMID ARDEBILI, PE LICENSE NO: PE-2017006932

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ECC INTERIOR LIGHTING

COMPLIANCE CERTIFICATE

COMPLIANCE SCOTT ST BUTLER, MO

COO7 FORT SCOTT ST SCOTT ST

PROJECT NO. 41180

Electrical Engineer
OMID ARDEBILI P.E.

23110 N 45TH PLACE PHOENIX, AZ 85050 P: 480.361.6269 F: 480.247.4993 Project Manager: OA Project Number: ED19007 E5.0