# BURGER KING

## BURGER KING
## 1440 NAPPANEE ST.
## ELKHART, IN 46514

### GENERAL SIGNAGE NOTES

SIGN INSTALLER RESPONSIBILITIES:
1. PROVIDE ALL DRAWINGS NECESSARY FOR SIGN PERMITS.
2. APPLY FOR, OBTAIN, AND PAY FOR ALL REQUIRED SIGN PERMITS.
3. COORDINATE EXCAVATION OF SIGN FOUNDATIONS WITH G.C.
4. SET ANCHOR BOLTS OR BASE PLATES AS REQUIRED.
5. COMPLETE SIGN INSTALLATION.
6. REMOVE EXCESS DEBRIS, ROUGH GRADE AREA FOR LANDSCAPING.

GENERAL CONTRACTOR RESPONSIBILITIES:
1. COORDINATE EXCAVATION OF SIGN FOUNDATIONS WITH SIGN SUPPLIER.
2. PROVIDE POWER TO ALL SIGN LOCATIONS AS REQUIRED.
3. MAKE FINAL ELECTRICAL CONNECTIONS TO EACH SIGN.

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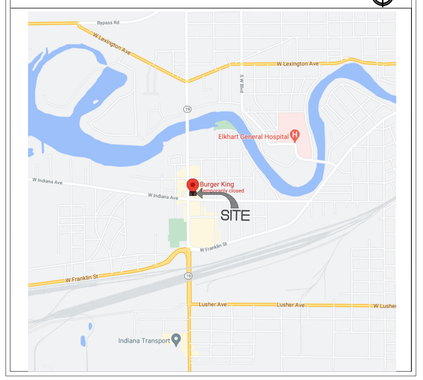
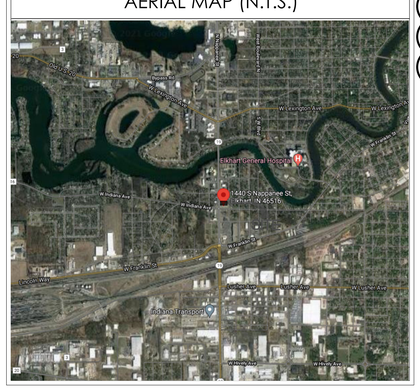
### VICINITY MAP (N.T.S.)




### AERIAL MAP (N.T.S.)




### NOTICE TO BIDDERS

THE "GENERAL CONTRACTOR," ITS "SUBCONTRACTORS," AND "VENDORS" SHALL REVIEW THE PROPOSED SITE FOR BIDDING PURPOSES AND TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS OF THE SITE AND PROPOSED SPACE. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS (DRAWINGS) AND EXISTING CONDITIONS SHALL BE SUBMITTED IN WRITING TO THE "ARCHITECT" AND OWNER BY THE "GENERAL CONTRACTOR" FOR CLARIFICATION. BY FAILURE TO CLARIFY DISCREPANCIES, GC SHALL BEAR RISK AND COST, AT NO CHARGE TO OWNER TO RECTIFY. GC AND VENDOR TO CHECK DRAWINGS AND CALL/EMAIL ARCHITECT IN REGARDS TO MOST RECENT DRAWINGS BEFORE ORDERING, MANUFACTURING, AND GOING TO SITE.

### PROJECT DATA

| PROJECT LOCATION: | OWNER: | ARCHITECT/ ENGINEER: |
|---|---|---|
| BURGER KING<br>1440 NAPPANEE ST.<br>ELKHART, IN 46514 | TODD WILLIAMS<br>TRIA CO.<br>34600 FREEDOM RD<br>FARMINGTON HILLS, MI 48335<br>ToddW@TriaCo.net<br>248.535.2300 | TECHNICAL GROUP, INC.<br>27300 HAGGERTY RD. SUITE F2<br>FARMINGTON HILLS, MI 48331<br><br>P: 248.426.8000 |
| **EQUIPMENT:** | **DECOR:** | **SITE SURVEY:** |
| FRANKE FOODSERVICE SYSTEMS AMERICAS, INC<br>800 AVIATION PARKWAY<br>SMYRNA, TN 37167<br>STEPHANIE RIVERO<br>PROJECT MANAGER<br>STEPHANIE.RIVERO@FRANKE.COM<br>615.462.4588 | FCC COMMERCIAL FURNITURE<br>8452 OLD HWY 99 N<br>ROSEBURG, OR 97470<br><br>P:800.322.7328<br>WWW.FCCFURN.COM | JONES PETRIE RAFINSKI CORP.<br>300 NIBCO PARKWAY<br>SUITE 250<br>ELKHART, IN 46516<br>P: 574.293.7762<br>MIKEL CURRIER<br>mcurrier@jpr1source.com<br>P: 574.232.4388 |

### LOCAL AUTHORITIES

| BUILDING DIVISION | HEALTH DEPARTMENT |
|---|---|
| CITY OF ELKHART<br>229 S 2ND ST.,<br>ELKHART, IN 46516<br>P: (574) 294-5474 | ELKHART COUNTY HEALTH DEPARTMENT<br>(ENVIRONMENTAL HEALTH)<br>608 OAKLAND AVE.<br>ELKHART, IN 46516<br>PHONE: (574) 523-2283 |

### GENERAL NOTES

IT IS THE RESPONSIBILITY OF THE CONTRACTOR WHO PERFORMS THE WORK TO ACQUIRE ALL NECESSARY PERMITS FOR WORKING WITHIN THE PUBLIC RIGHT-OF-WAY. BONDING REQUIREMENTS MAY BE APPLICABLE. CONTACT ELKHART PUBLIC WORKS AND UTILITIES FOR INFORMATION AND APPLICATIONS CONCERNING PERMITS.

THE CITY DOES MAINTAIN AN EROSION CONTROL ORDINANCE FOR CONSTRUCTION SITES. IT IS EXPECTED THAT RESPONSIBLE CONSTRUCTION TECHNIQUES WILL BE USED AND PUBLIC INFRASTRUCTURE WILL BE PROTECTED AT ALL TIMES.

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### CODE INFORMATION

PROJECT SCOPE: GROUND-UP BURGER KING BUILD

APPLICABLE CODES:
2014 INDIANA BUILDING CODE
2009 NATIONAL ELECTRIC CODE OF INDIANA
2012 INDIANA PLUMBING CODE
2014 INDIANA MECHANICAL CODE
2014 INDIANA FIRE CODE
ICC ANSI 117.1-2009
INDIANA ENERGY CONSERVATION CODE

OCCUPANCY TYPE: A-2: ASSEMBLY (NON-SPRINKLED)

CONSTRUCTION TYPE: V-B: WOOD FRAME

PROPOSED OCCUPANCY LOAD CALCULATIONS:

TOTAL AREA OF BUILDING: 3,130 SF

PROPOSED SEAT COUNT: 40

NUMBER OF EMPLOYEES (INCLUDING OWNERS AND MANAGERS): 6

TOTAL: 46

RESTROOM PLUMBING FIXTURES

FROM 2014 IBC , TABLE 2902.1

BUILDING OCCUPANCY CALCULATION (FROM TABLE 1004.1.1):
MAXIMUM OCCUPANTS (GREATEST OF OCCUP. CALCULATION OR SEAT COUNT NUMBERS) = 62
50% MALE AND 50% FEMALE = 62/2 = 31 EACH

31/75 = .41 =1 WC EACH RESTROOM. (TABLE 2902.1)

31/200 = .16 = 1 LAV EACH RESTROOM. (TABLE 2902.1)

| REQUIRED | | | PROVIDED | | |
|---|---|---|---|---|---|
| | MEN | WOMEN | | MEN | WOMEN |
| W.C. (1:75) | 1 | 1 | W.C. | 1 | 1 |
| URINAL* | - | - | URINAL | - | - |
| LAVATORY (1:200) | 1 | 1 | LAVATORY | 1 | 1 |

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### SHEET INDEX


| SHEET # | SHEET TITLE |
|---|---|
| T-1 | COVER SHEET |
| T-1.1 | ADA STANDARDS |
| CIVIL | |
| | TOPO & BOUNDARY BY OTHERS |
| C-1 | DEMO SITE PLAN |
| C-2 | PROPOSED SITE PLAN |
| C-3 | SITE DETAILS |
| C-3.1 | TRASH ENCLOSURE DETAILS |
| C-4 | SITE ELECTRICAL |
| C-5 | GRADING PLAN |
| C-5.1 | DRAINAGE AREA MAP |
| C-5.2 | UTILITY PLAN |
| C-6 | SOIL EROSION SITE PLAN |
| LS-1 | LANDSCAPE PLAN |
| SL-1 | SITE LIGHTING (BY OTHERS) |
| STRUCTURAL | |
| S-1 | FOUNDATION PLAN |
| S-1.1 | FOUNDATION DETAILS |
| S-2 | ROOF FRAMING PLANS AND DETAILS |
| S-3 | STRUCTURAL NOTES AND DETAILS |
| ARCHITECTURAL | |
| A-1 | PROPOSED FLOOR PLAN |
| A-1.1 | MISCELLANEOUS DETAILS |
| A-2 | PROPOSED EXTERIOR ELEVATIONS |
| A-2.1 | PROPOSED EXTERIOR ELEVATIONS |
| A-2.2 | EXTERIOR FINISH SCEHDULE |
| A-3 | BUILDING SECTIONS |
| A-3.1 | PROPOSED RESTROOM ELEVATIONS AND DETAILS |
| A-4 | REFLECTED CEILING PLAN |
| A-4.1 | REFLECTED CEILING DETAILS |
| A-5 | ROOF PLAN AND DETAILS |
| A-6 | WALL SECTIONS AND DETAILS |
| A-7 | WALL SECTIONS AND DETAILS |
| A-8 | WALL SECTIONS AND DETAILS |
| A-9 | WALL SECTIONS AND DETAILS |
| A-10 | DOOR AND WINDOW SCHEDULE |
| A-11 | MANUFACTURERS AND SUPPLIERS |
| EQ-1 | EQUIPMENT PLAN |
| MPE | |
| M-1 | H.V.A.C PLA N AND SCHEDULES |
| M-2 | ROOF H.V.A.C AND DETAILS |
| M-3 | BROILER-OVEN HOOD DRAWINGS |
| M-4 | BROILER - OVEN HOOD DRAWINGS |
| M-5 | BROILER - OVEN HOOD DRAWINGS |
| M-6 | GAYLORD FRYER HOOD DRAWINGS |
| M-7 | GAYLORD FRYER HOOD DRAWINGS |
| M-8 | FRYER HOOD DRAWINGS |
| M-9 | FRYER HOOD DRAWINGS |
| M-10 | FRYER HOOD DRAWINGS |
| M-11 | METAL - FAB DUCT INSTALLATION |
| P-1 | SANITARY AND GREASY WASTE PLAN & RISER |
| P-1.1 | SANITARY AND GREASY WASTE PLAN & RISER |
| P-2 | WASTE & GAS PLAN AND RISERS |
| E-1 | LIGHTING PLAN |
| E-2 | POWER PLAN |
| E-3 | ELECTRICAL PANELS AND RISERS |
| E-4 | TECHNOLOGY PLAN |
| E-5 | MASTER CONTRACTOR PANEL |


| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 04.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21


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AZIZ S. BOU-MARDA
REGISTERED
No. 910061
STATE OF INDIANA
PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
COVER SHEET

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET T-1

## ADAAG/ANSI REQUIREMENTS

PICTURE MENUS
1. SIGNAGE MUST BE PROVIDED AT THE DRIVE UP MENU/ORDER INTERCOM INDICATING PICTURE MENUS AVAILABLE UPON REQUEST AT THE PICK-UP WINDOW.
2. PROVIDE PICTURE MENUS AT THE WINDOW AND ORDER COUNTER.

ACCESSIBLE PARKING |
1. ALL ACCESSIBLE PARKING SPACES MUST BE WITHIN THE SHORTEST ACCESSIBLE ROUTE TO AN ACCESSIBLE ENTRANCE (36" WIDE MINIMUM AND UNOBSTRUCTED BY CURBS, VEHICLE OVERHANGS, PROTRUDING OBJECTS OR ANY OTHER BARRIERS) ADAAG 208.3 | DIAGRAM 3.6
2. PARKING MUST INCLUDE A VAN ACCESSIBLE PARKING SPACE WITH AN 8' WIDE MINIMUM ACCESS AISLE PROVIDED OR AN 11' WIDE PARKING SPACE WITH A 5' WIDE ACCESS AISLE. ADAAG 208.2.4, 502.2 | DIAGRAM 3.6
3. MUST PROVIDE A VERTICAL "VAN ACCESSIBLE" SIGN. ADAAG 502.2 | DIAGRAM 3.2
4. ALL VAN SPACES AND THEIR ACCESS AISLES MUST HAVE 98" OF VERTICAL CLEARANCE. ADAAG 502.5 | DIAGRAM 3.5
5. A SECOND VAN ACCESSIBLE PARKING SPACE MUST BE PROVIDED FOR LOTS WITH 26-50 TOTAL PARKING SPACES. ADAAG 208.2
6. EVERY ACCESSIBLE PARKING SPACE MUST BE AT LEAST 8' WIDE WITH THEIR ACCESSIBLE AISLES AT LEAST 5' WIDE. ADDGA 208.2, 502.3.1 | DIAGRAMS 3.4, 3.5
7. ALL ACCESSIBLE PARKING SPACES MUST HAVE AN AVERAGE SLOPE OF 2% OR LESS IN ANY DIRECTION. ADAAG 502.4
8. ALL ACCESS AISLES MUST HAVE AN AVERAGE SLOPE OF 2% OR LESS IN ANY DIRECTION. ADAAG 502.4
9.ALL ACCESS AISLES MUST BE FREE OF ENCROACHING RAMPS OR CURB RAMPS. ADAAG 502.4
10. ALL ACCESSIBLE PARKING SPACES MUST BE FREE OF ENCROACHING RAMOS OR CURB RAMPS. ADAAG 502.4
11. ALL ACCESSIBLE PARKING SPACES MUST HAVE AN INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA) VERTICAL SIGNAGE. ADAAG 502.6
10. EVERY VERTICAL SIGN WITH THE ISA MUST BE POSTED 60" MEASURED FROM THE PARKING SURFACE TO THE BOTTOM OF THE SIGN AT EACH SPACE. ADAAG 502.6 | DIAGRAM 3.4
12. STRIPES MUST BE PAINTED ON EACH ACCESS AISLE TO DISCOURAGE PARKING IN THAT SPACE. ADAAG 502.3.3 | DIAGRAM 3.5
13. A CURB OR TIRE STOP MUST BE PROVIDED AT EACH PARKING SPACE TO AVOID NARROWING A REQUIRED ACCESSIBLE ROUTE. ADAAG 403.5.1 | DIAGRAM 3.4

EXTERIOR ACCESSIBLE ROUTES |
1. ALL CROSSWALKS MUST BE DESIGNATED WITH PAINTED STRIPES OR DIFFERENT SURFACE MATERIAL. ADAAG 502.3
2.ACCESSIBLE ROUTES ARE REQUIRED TO BE FREE OF ABRUPT CHANGES IN LEVEL GREATER THAN 1/4" IN HEIGHT. ADAAG 206.2.1, 206.2.2, 403.4, 303. ANSI 302.1
3. ACCESSIBLE ROUTES ARE REQUIRED TO TO BE FREE OF GAPS GREATER THAN 1/2" WIDE. ADAAG 206.2.1, 206.2.2, 403.2, 302.3. ANSI 303.2
4. ALL ACCESSIBLE ROUTES MUST HAVE RUNNING SLOPES OF 5% OR LESS
5.ALL ACCESSIBLE PATHS TO BE AN AVERAGE SLOPE OF 2% OR LESS IN ANY DIRECTION. ADDGA 206.2.1/206.2.2 ANSI 403.3
6. ALL PEDESTRIAN PATHS ARE REQUIRED TO BE FREE OF OBJECTS PROTRUDING MORE THAN 4" (12" IF POST MOUNTED SUCH AS SIGNAGE) HORIZONTALLY, BETWEEN 17" AND 80" HIGH. ADAAG 307.2. ANSI 307.2, 307.3 | DIAGRAM 2.3
7. 80" HIGH MINIMUM HEAD CLEARANCE IS REQUIRED ALONG ALL PEDESTRIAN PATHS. ADAAG 307.4 ANSI 307.4 | DIAGRAM 2.4
8. THE EDGE BETWEEN ALL PEDESTRIAN PATHS AND VEHICULAR WAYS MUST BE IDENTIFIED BY A CHANGE IN LEVEL (CURBS) OR TRUNCATED DOME DETECTABLE WARNINGS. | DIAGRAM 2.1

TELEPHONES
1. THE PUBLIC PAY PHONE MUST BE ON AN ACCESSIBLE ROUTE WITH A 30" BY 48" MINIMUM CLEAR FLOOR SPACE. ADAAG 704.2.1
2. AT LEAST ONE PHONE AT THIS LOCATION MUST CONTAIN A VOLUME CONTROL AND MUST BE MARKED BY THE VOLUME CONTROL SYMBOL. ADAAG 704.3, 703.7.2.3
3. THE HIGHEST OPERABLE PART OF THE LOWEST PHONE MUST 48" OR LESS AFF. ADDGA 305
4. THE HANDSET CORD MUST BE AT LEAST 29" IN LENGTH. ADAAG 704.2.4

ACCESSIBLE CURB RAMPS |
1. SMOOTH TRANSITION BETWEEN THE ROAD AND EVERY CURB RAMP IS REQUIRED. ADAAG 406.2. ANSI 405.9.2
2. THE SLOPE OF EVERY ADJOINING GUTTER OR ROAD SURFACE MUST BE 5% OR LESS. ADAAG 406.2
3. EVERY CURB RAMP MUST A MINIMUM OF 36" WIDE. ADAAG 406.1 | DIAGRAM 3.8
4. EVERY CURB RAMP FRONT TO BACK MUST SLOPE 8.3% OR LESS. ADAAG 406.1,405.2 | DIAGRAM 3.13
5. ALL CURB RAMP FLARES MUST SLOPE 10% OR LESS. ADAAG 406.3 | DIAGRAM 3.14
6. DETECTABLE WARNING (TRUNCATED DOMES) MUST BE PROVIDED AT EVERY CURB RAMP.
7. DETECTABLE WARNINGS ON CURB RAMPS MUST CONTRAST VISUALLY WITH THE ADJOINING SURFACES. ADAAG 705.1 ANSI 406.14
8. LEVEL LANDINGS (2% OR LESS SLOPE IN ANY DIRECTION) 36 INCHES DEEP MINIMUM BY 36" WIDE MUST BE AT THE TOP OF EACH CURB RAMP. ADAAG 406.4 | DIAGRAM 3.13

RAMPS |
1. EVERY PORTION OF ROUTE MUST HAVE HANDRAILS ON BOTH SIDES WITH SLOPES GREATER THAN 5% AND A RISE OF MORE THAN 6". ADAAG 405.8, 505
2. ALL PORTIONS OF ANY ACCESSIBLE RAMPS MUST HAVE RUNNING SLOPES OF 8.3% OR LESS. ADAAG 405.2
3. ALL CROSS SLOPES MUST BE 2% OR LESS. ADAAG 405.3
4. THE CLEAR WIDTH OF EVERY RAMPED SECTION MUST BE AT LEAST 36". ADAAG 405.5 | DIAGRAM 3.9
5. THERE MUST BE A 5' LONG LANDING PROVIDED AT THE TOP AND BOTTOM OF EACH RAMPED SECTION. ADAAG 405.7 | DIAGRAM 3.9
6. ALL LANDINGS MUST BE AT LEAST AS WIDE AS THE RAMPED SECTION LEADING TO THEM. ADAAG 405.7 |DIAGRAM 3.9
7. AN INTERMEDIATE LANDING OF AT LEAST 5' IN LENGTH MUST BE PROVIDED WHEREVER THE RISE IS MORE THAN 30". ADAAG 405.6, 405.7 | DIAGRAM 3.9
8. ALL LANDINGS WHERE A CHANGE IN DIRECTION OCCURS MUST BE AT LEAT 60" DEEP BY 60" WIDE. ADAAG 405.7 | DIAGRAM 3.10
9. ALL LANDINGS MUST BE SLOPED 2% OR LESS. ADAAG 405.7.1, 302
10. A 12" MINIMUM EXTENDED GROUND SURFACE OR 4" HIGH EDGE PROTECTION MUST BE PROVIDED ALONG EACH SIDE OF EVERY RAMP SECTION. ADAAG 405.9
11. ALL HANDRAILS MUST BE LOCATED 34"-38" AFF AND MUST BE 1-1/4" TO 1-1/2" IN DIAMETER. ADAAG 405.8, 505 |DIAGRAM 3.12
12. EACH HANDRAIL MUST HAVE A 12" MINIMUM HORIZONTAL EXTENSION AT THE TOP AND BOTTOM OF EACH RAMP SECTION. ADAAG 405.8, 505 | DIAGRAM 3.12

ENTRY DOORS |
1. PUBLIC SIDEWALK OR RIGHT OF WAY TO ENTRY DOORS MUST HAVE A 36" WIDE MINIMUM UNOBSTRUCTED ACCESSIBLE ROUTE. ADAAG 206.4 | DIAGRAM 3.11
2.ENTRY DOOR IS REQUIRED TO HAVE ISA DECAL AND IF IT IS NOT ACCESSIBLE IT MUST HAVE DIRECTIONAL SIGNAGE INDICATING THE CLOSEST ACCESSIBLE ENTRANCE. ADAAG 216.6, 703.5 ANSI 703.2.9
3. ALL OPENING HARDWARE IS TO BE OPERATED WITH A CLOSED FIST. ADAAG 404.2.7 ANSI 404.2.6 | DIAGRAM 2.3
4. THE OPERABLE PORTION OF ALL PUBLIC USE DOOR HARDWARE MUST BE LOCATED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7
5. DOOR CLOSING SPEED IS TO BE 5 SECONDS OR MORE FROM 90 DEGREES TO 12 DEGREES FROM THE LATCH FOR ALL LEAVES OF THIS DOORWAY. ADAAG 404.2.8.1 ANSI 404.2.7.1
6. THE CLEAR WIDTH OF AT LEAST ONE SINGLE LEAF MUST BE 32" MINIMUM. ADAAG 404.2.3, 404.2.3 | FIGURE 404.2.4
7. THRESHOLD HEIGHT HEIGHT MAY NOT EXCEED 1/2" MAXIMUM. ADAAG 404.2.5 ANSI 404.2.4
8. ENTRY THRESHOLDS MUST NOT HAVE ABRUPT PORTIONS THAT ARE 1/4" HIGH MAXIMUM. ADAAG 404.2.5 ANSI 404.2.4
9. THE ENTRY THRESHOLD MUST HAVE A 1:2 MAXIMUM BEVEL FOR ANY PORTION THAT IS MORE THAN 1/4" HIGH. ADAAG 404.2.5. ANSI 303.3
10. THERE MUST BE A 10" HIGH SMOOTH PANEL OR KICK PLATE LOCATED ON THE BASE OF THE RUSH SIDE OF ALL LEAVES OF THE DOORWAY. ADAAG 404.2.10
11. REQUIRED MANEUVERING SPACE IS REQUIRED ON EACH SIDE OF THE DOOR SLOPED 2% OR LESS IN ALL DIRECTIONS. ADAAG 404.2.4 ANSI 404.2.3.5

QUEUING AISLE |
1. THERE MUST BE A 60" LONG BY 60" WIDE MINIMUM TURNING SPACE AT EVERY TURN IN THE AISLE PATH OR IF THE PATH IS AT LEAST 42" WIDE, THE DEPTH OF THE TURN MUST BE AT LEAST 48". ADAAG 304.3,403.5.2 | DIAGRAM 4.10
2. THE NARROWEST CLEAR WIDTH BETWEEN THE BARRIERS MUST BE A MINIMUM OF 36". 403.5.1 | DIAGRAM 4.10
3. QUEUING AISLE SEPARATION BARRIERS MUST HAVE DETECTABLE ELEMENTS. ADAAG 307.2 | DIAGRAM 4.9

## ADAAG/ANSI REQUIREMENTS

SERVICE COUNTER |
1. THE HEIGHT OF THE ACCESSIBLE ORDER COUNTER SHALL NOT EXCEED 34" MAXIMUM. ADAAG 902.3. (PREFERRED 33 1/2") ANSI 904.4.2 | DIAGRAM 4.13
2. THE WIDTH OF THE ACCESSIBLE ORDER COUNTER SHALL NOT BE LESS THAN 36" MINIMUM. ADAAG 902.3 ANSI 904.3 | DIAGRAM 4.13
3. THE HEIGHT OF THE ACCESSIBLE PICK-UP COUNTER SHALL NOT EXCEED 34" MAXIMUM. ADAAG 902.3 ANSI 904.4.2 | DIAGRAM 4.13
4. THE WIDTH OF THE ACCESSIBLE PICK-UP COUNTER SHALL NOT BE LESS THAN 36" MINIMUM. ADAAG 902.3 ANSI 904.3 | DIARGRAM 4.13
5. THE CREDIT CARD READER SHALL BE IN REACH OR ON A CORD LONG ENOUGH TO REACH THE LAP OF A CUSTOMER WHO USES A WHEELCHAIR. ADAAG 308 ANSI 902.3
6. THE SIGNATURE PAD WRITING SURFACE IS REQUIRED TO BE 34" AFF MAXIMUM OR ON A CORD LONG ENOUGH TO REACH THE LAP OF A CUSTOMER WHOSE USES A WHEELCHAIR. ADAAG 902.4 ANSI 902.3

SELF SERVICE CONDIMENTS AND DRINKS COUNTER |
1. IT IS REQUIRED TO HAVE AT LEAST ONE OF EACH CONTAINER, UTENSIL OR CONDIMENT LOCATED WITHIN 48" MAXIMUM AFF OR 46" MAXIMUM AFF FOR DEPTHS FROM 10" TO 24". ADAAG 308 | DIAGRAM 4.12, DIAGRAM 4.12
ANSI 308
2. IT IS REQUIRED TO HAVE AT LEAST ONE OF EACH TYPE OF DRINK DISPENSER LOCATED WITHIN 48" MAXIMUM AFF OR 46"MAXIMUM AFF FOR DEPTHS FROM 10" TO 24". ADAAG 308 ANSI 308 | DIAGRAM 4.12, DIAGRAM 4.12
3. THE TOP OF EACH SELF SERVICE COUNTER OR TRAY SLIDE IS NOT TO EXCEED 34" MAXIMUM AFF. ADAAG 902.3. (PREFERRED 33 1/2") ANSI 904.5.2 | DIAGRAM 4.13
4. THE CONTROL OF EVERY DISPENSER IS REQUIRED TO BE OPERABLE WITH A CLOSED FIST OR FLAIL HAND. ADAAG 309.4 ANSI 309.4 | DIAGRAM 2.3

INTERIOR ACCESSIBLE SEATING AND TABLES |
1. 5% OF THE SEATING POSITIONS IN EACH AREA MUST BE ACCESSIBLE. ADAAG 226.1
2. IT IS REQUIRED TO HAVE A 36" WIDE MINIMUM ACCESSIBLE ROUTE SERVING EVERY ACCESSIBLE SEATING LOCATION. ADAAG 403 ANSI 403
3. THE HEIGHT OF THE TABLE TOP IS REQUIRED TO BE BETWEEN 28" AND 34" MAXIMUM AT EVERY ACCESSIBLE SEATING POSITION. ADAAG 902.3 ANSI 902.3 | DIAGRAM 2.2
4. KNEE CLEARANCE OF 27" HIGH BY 30" WIDE BY 17" DEEP IS TO BE PROVIDED AT EVERY ACCESSIBLE SEATING POSITION. ADAAG 902.2 ANSI 902.2 | DIAGRAM 2.2
5. THE DINING AREA MUST HAVE AN AUDIBLE PUBLIC ALARM AND A VISUAL FIRE ALARM. ADAAG 702

EXTERIOR ACCESSIBLE SEATING AND TABLES
1. 5% OF THE SEATING POSITIONS IN EACH AREA MUST BE ACCESSIBLE. ADAAG 226.1
2. IT IS REQUIRED TO HAVE A 36" WIDE MINIMUM ACCESSIBLE ROUTE SERVING EVERY ACCESSIBLE SEATING LOCATION. ADAAG 403 ANSI 403
3. THE HEIGHT OF THE TABLE TOP IS REQUIRED TO BE BETWEEN 28" AND 34" MAXIMUM AT EVERY ACCESSIBLE SEATING POSITION. ADAAG 902.3 ANSI 902.3 | DIAGRAM 2.2
4. KNEE CLEARANCE OF 27" HIGH BY 30" WIDE BY 17" DEEP IS TO BE PROVIDED AT EVERY ACCESSIBLE SEATING POSITION. ADAAG 902.2 ANSI 902.2 | DIAGRAM 2.2
5. THE DINING AREA MUST HAVE AN AUDIBLE PUBLIC ALARM AND A VISUAL FIRE ALARM. ADAAG 702

INTERIOR ACCESSIBLE ROUTES AND ELEMENTS |
1. THERE MUST BE A 36" WIDE ACCESSIBLE ROUTE CONNECTING THE ACCESSIBLE ENTRY/ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE FACILITY INCLUDING SERVING AND CONDIMENT COUNTERS, DINING AREAS, RESTROOMS AND PLAYGROUNDS IF AVAILABLE. ADAAG 206.2.4, 402
2.ALL ACCESSIBLE ROUTES ARE REQUIRED TO BE STABLE, FIRM AND SLIP RESISTANT. ADAAG 206.2.4, 302.1, ANSI 302.1
3. ACCESSIBLE ROUTES ARE REQUIRED TO BE FREE OF ABRUPT CHANGES IN LEVEL GREATER THAN 1/4" IN HEIGHT. ADAAG 206.2.4, 403.4, 303, ANSI 303.2,
4. ACCESSIBLE ROUTES ARE REQUIRED TO BE FREE OF GAPS GREATER THAN 1/2" WIDE. ADAAG 206.2.4, 403.2, 302.3, ANSI 302.3.
5. ACCESSIBLE ROUTES ARE TO HAVE RUNNING SLOPES 5% OR LESS. ADAAG 206.2.4, 403.3, ANSI 405.2
6. ACCESSIBLE ROUTES ARE TO HAVE CROSS SLOPES 2% OR LESS. ADAAG 206.2.4, 403.3 ANSI 405.3

INTERIOR STAIRS
1. ANY STAIRS PART OF MEANS OF EGRESS MUST HAVE RISERS THAT ARE 4" MINIMUM TO 7" HIGH MAXIMUM. ADAAG 210
2. ALL STAIR TREADS MUST BE 11" MINIMUM IN DEPTH. ADAAG 504.02
3. ALL RISERS MUST BE CLOSED. 504.3
4. ALL NOSING MUST BE FREE OF PROTRUSIONS AND MUST BE EITHER FLUSH, SMOOTH OR BEVELED. ADAAG 504.5
5. HANDRAILS MUST BE PROVIDED ON BOTH SIDES OF THE STAIRS AND MUST BE LOCATED 34" TO 38" AFF AND HAVE A CLEARANCE OF 1-1/2" MINIMUM FROM THE VERTICAL SURFCE. ADAAG 505.1, 505.4, 505.5
6. ALL HANDRAIS MUST HAVE 12" MINIMUM OF EXTENSIONS AT BOTH THE TOP AND THE BOTTOM OF THE STAIRWAY. ADAAG 505.1

PROTRUDING OBJECTS |
1. ALL PEDESTRIAN PATHS ARE TO BE FREE OF OBJECTS PROTRUDING MORE THAN 4" (12" IF POST MOUNTED SUCH AS SIGNAGE) HORIZONTALLY, BETWEEN 27" AND 80" HIGH. ADAAG 307.2 ANSI 307.3 | DIAGRAM 2.4
2. IT IS REQUIRED TO HAVE 80" MINIMUM HEAD CLEARANCE ALONG ALL PEDESTRIAN PATHS. ADAAG 307.4 ANSI 307.4 | DIAGRAM 2.4

PLAY AREAS |
1. THERE MUST BE AT LEAST ONE ACCESSIBLE ENTRANCE AND ONE EXESSIBLE EXIT TO THE SOFT CONTAINED PLAY STRUCTURE (CAN BE THE SAME). ADAAG 1008.2.4.1
2. IF THERE ARE 4 OR MORE ENTRANCES TO THE SOFT CONTAINED PLAY STRUCTURE THERE MUST BE AT LEAST 2 ENTRANCES THAT ARE ACCESSIBLE. ADAAG 206.2.17.2,1008.2.4
3. THERE MUST BE A 60" MINIMUM WIDTH ACCESSIBLE ROUTE FROM THE ENTRY OF THE PLAY AREA TO EACH REQUIRED ENTRY AND EXIT OF THE SOFT CONTAINED PLAY STRUCTURE. ADAAG 1008.2.4
4. AN 80" HIGH MINIMUM HEAD CLEARANCE MUST BE PROVIDED ALONG ALL ACCESSIBLE ROUTES WITHIN THE PLAY AREA. ADAAG 1008.2
5. ALL ACCESSIBLE ROUTES MUST HAVE COMPLIANT LEVEL CHANGE AND EDGE TRANSITION CONDITIONS. 403.4, 405.2
6. THERE MUST BE A 60" DIAMETER OR T-TURN SPACE PROVIDED AT EACH ACCESSIBLE ENTRY TO THE SIFT CONTAINED PLAY STRUCTURE. ADAAG 1008.2.4.1, 304.3 | DIAGRAM 4.8
7. A TRANSFER PLATFORM MUST BE PROVIDED AT EACH ACCESSIBLE ENTRY AND EXIT OF THE SOFT CONTAINED PLAY STRUCTURE AND MUST BE AT LEAST 14" DEEP AND 24" WIDE AND LOCATED BETWEEN 11" AND 18" AFF. ADAAG 1008.2.2, 1008.3.1.1, 1008.3.1.2
8. THERE MUST BE A 30"X48" CLEAR FLOOR SPACE CENTERED (ALONG THE LONG SIDE) OF EACH TRANSFER PLATFORM. ADAAG 1008.3.1.3
9. AT LEAST ONE MEANS OF SUPPORT (HANDRAIL OR GRIPPING SURFACE) MUST BE PROVIDED AT EVERY TRANSFER PLATFORM. ADAAG 1008.3.1.4, 1008.3.2.3
10. ALL ACCESSIBLE ROUTES MUST HAVE A SLOPE OF 1:16 (6.2%) MAXIMUM. ADAAG 1008.2.5.1
11. THE MANUFACTURER MUST PROVIDE PROOF OF ADA COMPLIANCE FOR ALL TRADITIONAL NON-CONTAINED COMPOSITE STRUCTURES AND ANY FREE-STANDING PLAY EQUIPMENT. ADAAG 240.2

GAMES/KIOSK/VENDING |
1. ALL SELF SERVICE KIOSKS, VENDING MACHINES OR FREE STANDING GAME UNITS MUST BE ON AN ACCESSIBLE ROUTE WITH A 30"X48" MINIMUM CLEAR FLOOR SPACE. ADAAG 305.3
2. ALL CONTROLS AND OPERATING ELEMENTS MUST BE LOCATED WITHIN 48 " MAXIMUM AFF OR 46" MAXIMUM AFF FOR DEPTH FROM 10" TO 24". ADAAG 308
3. ALL CONTROLS OR OPERATING ELEMENTS MUST BE OPERABLE WITH A CLOSED FIST OR FLAIL HAND WITH 5LBS OR LESS OF FORCE. ADAAG 309.4 | DIAGRAM 2.3

## ADAAG/ANSI REQUIREMENTS

MEN'S RESTROOMS |
1. A SIGN MUST BE LOCATED OUT OF THE SWING OF ANY DOOR AT THE LATCH SIDE OF THE RESTROOM DOOR. ADAAG 703.4.2 ANSI 703.3.11 | DIAGRAM 4.6
2. THE RESTROOM SIGN MUST HAVE TACTILE CHARACTERS THAT ARE RAISED AT LEAST $\frac{1}{32}$". ADAAG 703.2.1 ANSI 703.2.4, 703.2.9 | DIAGRAM 4.6
3. THE RESTROOM SIGN MUST HAVE TACTILE CHARACTERS WITH HEIGHT BETWEEN $\frac{5}{8}$" AND 2" ADAAG 703.2.5 ANSI 703.2.4 TABLE 703.2.4 | DIAGRAM 4.6
4. THE RESTROOM SIGN WILL HAVE THE LOWEST TACTILE CHARACTER 48" MIN. AND THE BASELINE OF THE HIGHEST TACTILE CHARACTER 60" MAX. ADAAG 703.4.1 ANSI 703.3.10 | DIAGRAM 4.6
5. THE RESTROOM SIGN MUST HAVE BRAILLE. ADAAG 703.3 ANSI 703.3, 703.4 | DIAGRAM 4.6
6. THE RESTROOM SIGN MUST BE NON GLARE AND THE CHARACTERS MUST CONTRAST WITH THE BACKGROUND. ADAAG 703.5.1 ANSI 703.5.3 | DIAGRAM 4.6
7. THE FLOOR SURFACES IN THE RESTROOM CANNOT BE SLOPED GREATER THAN 2% IN ALL DIRECTIONS WITH NO ABRUPT CHANGE IN LEVEL GREATER THAN $\frac{1}{4}$" HIGH AND NO GAPS GREATER THAN $\frac{1}{2}$" WIDE. ADAAG 206.2.4, 302.3, 303, 403.2, 403.3, 403.4, ANSI 302.2, 303.3, 403.3
8. THERE MUST BE A 60" DIAMETER OR A T-TURN TURNING SPACE PROVIDED IN THE RESTROOM. ADAAG 304.3 | DIAGRAM 4.8
9. THERE MUST BE AN AUDIBLE AND VISUAL PUBLIC ALARM. ADAAG 702

MEN'S ENTRY DOOR |
1. ALL OPENING HARDWARE CAN BE OPERATED WITH A CLOSED FIST OR A FLAIL HAND AND MUST BE LOCATED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7 ANSI 404.2.6 | DIAGRAM 2.5
2. OPENING FORCE FOR ALL ACCESSIBLE INTERIOR AND EXTERIOR DOORS WILL NOT EXCEED 5 LBF. ADAAG 404.2.9 ANSI 404.2.8
3. DOOR CLOSING SPEED WILL BE 5 SECONDS OR MORE FROM 90 DEGREES TO 12 DEGREES FROM THE LATCH FOR ALL LEAVES OF THIS DOORWAY. ADAAG 404.2.8.1 ANSI 404.2.7.1
4. THE CLEAR WIDTH OF THE DOOR MUST BE A MINIMUM OF 32". ADAAG 404.2.3 | 404.2.4
5. THRESHOLDS FOR DOORS WILL NOT HAVE AN OVERALL HEIGHT GREATER THAN $\frac{1}{2}$" MAX, OR HAVE ABRUPT PORTIONS THAT ARE $\frac{1}{4}$" HIGH MAX. THE THRESHOLD MAY HAVE A 1:2 MAX BEVEL FOR ANY PORTION THAT IS GREATER THAN $\frac{1}{4}$" HIGH. ADAAG 404.2.5 ANSI 404.2.4
6. DOORS MUST HAVE A 10" HIGH SMOOTH SURFACE OR KICK PLATE LOCATED ON THE BASE OF THE PUSH SIDE OF ALL LEAVES OF THE DOORWAY. ADAAG 404.2.10
7. ALL DOORS MUST HAVE PULL AND PUSH SIDE MANEUVERING SPACES THAT COMPLY WITH FIGURE 404.2.4
8. THE REQUIRED MANEUVERING SPACES ON EACH SIDE OF THE DOOR MAY BE SLOPED 2% OR LESS IN ALL DIRECTIONS. ADAAG 404.2.4 ANSI 303.2

MEN'S LAVATORY |
1. THE TOP OF THE ACCESSIBLE LAVATORY MUST BE BETWEEN 28" TO 34" HIGH. ADAAG 213.3.4, 606.2, 606.3 | DIAGRAM 4.3
2. THERE MUST BE A 27" HIGH BY 30" WIDE BY 8" DEEP MINIMUM KNEE CLEARANCE UNDER THE LAVATORY ALONG WITH A 9" HIGH BY 30" WIDE BY 17" DEEP MINIMUM TOE CLEARANCE. ADAAG 213.3.4, 305.4, 306, 606.2 | DIAGRAM 4.3
3. ALL ACCESSIBLE LAVATORY PIPES MUST BE INSULATED OR OTHERWISE PROTECTED FROM CONTACT. ADAAG 213.3.4, 606.5 ANSI 606.6
4. THE FAUCET HARDWARE AT THE ACCESSIBLE LAVATORY MUST BE AUTOMATIC OR OPERABLE WITH A CLOSED FIST OR FLAIL HAND. ADAAG 213.3.4, 606.4 ANSI 606.4 | DIAGRAM 2.3
5. A MIRROR MUST BE PROVIDED THAT HAS A BOTTOM REFLECTING EDGE LOCATED A MAXIMUM OF 40" HIGH.

DISPENSERS/ACCESSORIES
1. IF THERE IS A CUSTOMER USE LIGHT SWITCH, IT MUST BE MAXIMUM 48" IN AN ACCESSIBLE LOCATION. ADAAG 205.1, 308, 309.3
2. THERE MUST BE AT LEAST ONE TYPE OF EACH DISPENSER ON AN ACCESSIBLE ROUTE WITH A 30"X48" MINIMUM CLEAR FLOOR SPACE AND MUST BE MOUNTED WITH CONTROLS 48" MAXIMUM AFF. ADAAG 305.3, 308
3. THE DIAPER CHANGING STATION MUST BE ON AN ACCESSIBLE ROUTE WITH AN ACCESSIBLE CLEAR FLOOR SPACE. ADAAG 305, 902.1, 902.2 ANSI 308
4. THE DIAPER CHANGING PULL DOWN HANDLE AND ALL OTHER OPERABLE CONTROLS MUST BE LOCATED AT A MAXIMUM OF 48" HIGH AND THE SURFACE MUST BE A MAXIMUM OF 28"TO34" HIGH WHEN OPENED. 305, 902.1, 902.3
5. THE KNEE CLEARANCE FOR THE DIAPER CHANGING STATION (WHEN OPEN) MUST PROVIDE FOR 27". 306, 902.1, 902.2
6. ACCESSIBLE DISPENSERS MUST BE OPERABLE WITHOUT PINCHING, GRASPING OR TWISTING OF THE WRIST AND REQUIRE 5 LBF OR LESS TO OPERATE. ADAAG 205, 309.4 ANSI 309.4

MEN'S TOILET |
1. THERE MUST ACCESSIBLE TOILET SEAT LOCATED 17" TO 19" AFF AND CENTERED 16" TO 18" FROM SIDEWALL. ADAAG 604.4, 604.2 | DIAGRAM 4.7
2. THE TOILET FLUSH CONTROL MUST BE AUTOMATIC OR LOCATED ON THE OPEN SIDE OF THE TOILET. ADAAG 604.6 | DIAGRAM 4.7
3. A HORIZONTAL REAR WALL GRAB BAR MUST BE PROVIDED THAT IS 1$\frac{1}{4}$" TO $\frac{1}{2}$" IN DIAMETER, 36" LONG MIN, EXTENDING 12" MIN FROM THE TOILET CENTERLINE TOWARDS THE NEAR SIDE WALL, CENTERED 33" TO 36" ABOVE THE FLOOR TO THE TOP OF THE GRIPPING SURFACE AND WITH NO OBSTRUCTIONS WITHIN 12" ABOVE OR 1$\frac{1}{2}$" BELOW THE BAR. ADAAG 604.5.2, 609 ANSI 604.1, 604.5.2, 609 | DIAGRAM 4.1
4. THE URINALS FLUSH CONTROL MUST BE AUTOMATIC OR 48" HIGH MAX AND BE OPERABLE WITH NO MORE THAN 5LBF OF PRESSURE. ADAAG 605.4 ANSI 604.6 | DIAGRAM 4.4
5.GRAB BARS AT THE SIDE SHALL BE AT LEAST 42" LONG POSITIONED NO MORE THAN 12" FROM THE REAR WALL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36" LONG. VERTICAL GRAB BARS TO BE 18" IN LENGTH AND 39-41" AFF AND 39-41" FROM REAR WALL (IBC 1607.7 & ANSI 604.8.4.1) (ICC/ANSI A117.1-2003 FIG. 604.5.1) ANSI 604.5.1, 609.4 | DIAGRAM 4.1
6. THE CENTERLINE OF THE TOILET COVER DISPENSER MUST BE LOCATED 7" TO 9" FROM THE FRONT OF THE CLOSET AND AT LEAST 1-1/2" BELOW THE SIDE WALL GRAB BAR OR AT LEAST 12" ABOVE THE GRAB BAR. IT ALSO MUST BE LOCATED 15" TO 48" MAXIMUM ABOVE THE FLOOR. ADAAG 604.7, 609.3 | DIAGRAM 4.7
7. IF THE ACCESSIBLE WATER CLOSET IS IN A COMPARTMENT, IT MUST HAVE AT LEAST 60" MINIMUM CLEARANCE MEASURED PERPENDICULAR FROM THE SIDE WALL PROVIDED. ADAAG 604.3 | DIAGRAM 4.7
8. WATER CLOSET MUST ALSO HAVE 56 MINIMUM CLEARANCE MEASURED FROM THE REAR WALL AND HAVE A WIDTH OF A MINIMUM OF 60". ADAAG 604.8.1.1 | DIAGRAM 4.7
9. IF THE WATER CLOSET IS WALL-HUNG, THE DEPTH OF THE COMPARTMENT MUST BE A MINIMUM OF 56". ADAAG 604.8.1.1
10. IF THE WATER CLOSET IS FLOOR-MOUNTED, THE COMPARTMENT MUST HAVE A DEPTH OF AT LEAST 59". ADAAG 604.8.1.1 | DIAGRAM 4.2
11. THE COMPARTMENT MUST PROVIDE AT LEAST 6" DEEP MINIMUM SPACE AT THE FRONT OF THE COMPARTMENT AND ONE OTHER SIDE. ADAAG 604.8.1.1 | DIAGRAM 4.8
12. IF THE TOILET COMPARTMENT IS SELF-CLOSING, PROVIDE A CLEAR OPENING WIDTH OF AT LEAST 32" AND WITHIN 4" OF THE COMPARTMENT CORNER DIAGONALLY OPPOSITE THE TOILET. ADAAG 604.8.1.2 | DIAGRAM 4.7
13. ALL ACCESSIBLE TOILET COMPARTMENT DOOR HARDWARE MUST BE CENTERED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7 | DIAGRAM 2.3
14. IF THE ACCESSIBLE COMPARTMENT DOOR IS OUT-SWINGING, THE EXTERIOR MANEUVERING SPACES MUST BE COMPLIANT WITH FIGURE 404.2.4 ADAAG 604.8.1.2 | FIGURE 404.2.4
15. ALL ACCESSIBLE COMPARTMENT DOOR HARDWARE MUST BE OPERABLE WITH A FIST OR FLAIL HAND. ADAAG 604.8.1.2, 404.2.7 | DIAGRAM 2.3
16. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR MUST BE EQUIPPED WITHA LOOP OR U-SHAPED HANDLE. ADAAG 604.8.1.2
17. AT LEAST ONE OF EACH HOOK AND DISPENSER IN THE ACACESSIBLE COMPARTMENT MUST BE AT 48" MAXIMUM AFF. ADAAG 213.3.7, 603.4, 604.8.3, 308
18. COMPARTMENT DOOR OPENINGS SHALL BE 4 INCHES (100MM) MAXIMUM FROM THE FRONT PARTITION. WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. | DIAGRAM 4.9.

URINALS |
1. THE LIP OF ONE URINAL MUST BE AT A MAXIMUM OF 17" HIGH. ADAAG 605.2 | DIAGRAM 4.4
2. THE CLEAR FLOOR SPACES AT THAT SAME URINAL MUST BE 30" WIDE (30" WIDE MINIMUM IF IN AN ALCOVE OVER 24" DEEP). ADAAG 605.3 | DIAGRAM 4.4
3. THE LIP OF THE URINAL MUST EXTEND AT LEAT 13-1/2" FROM THE REAR WALL. ADAAG 605.2 | DIAGRAM 4.4
4. THE URINAL'S FLUSH CONTROL MUST BE AUTOMATIC OR AT A MAXIMUM OF 48" HIGH AND OPERABLE WITH NO MORE THAN 5LBS OF PRESSURE. ADAAG 605.4 | DIAGRAM 4.4

MEN'S AMBULATORY COMPARTMENT
1. IF THERE ARE 6 OR MORE TOILET COMPARTMENTS AND URINALS COMBINED AN AMBULATORY COMPARTMENT MUST BE PROVIDED THAT IS 35" TO 37" WIDE AND AT LEAST 60" LONG. ADAAG 213.3.1, 604.8.2.1
2. THE COMPARTMENT DOOR MUST PROVIDE AT LEAST 32" OF CLEAR OPENING WIDTH AND ADAAG 604.8.2.2
3. ALL HARDWARE MUST BE OPERABLE WITH A CLOSED FIST AND MUST BE CENTERED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7
4. THE TOILET MUST BE CENTERED 17-19" FROM THE SIDE WALL. ADAAG 604.2
5. THERE MUST BE 2 HORIZONTAL SIDEWALL GRAB BARS PROVIDED IN THE AMBULATORY COMPARTMENT THAT ARE 1-1/4" TO 1-1/2" IN DIAMETER, 42" LONG MINIMUM, EXTENDING 54" MINIMUM FROM THE REAR WALL. ADAAG 604.8.2.3

## ADAAG/ANSI REQUIREMENTS

WOMEN'S OR 2ND SINGLE USER RESTROOM |
1. A SIGN MUST BE LOCATED OUT OF THE SWING OF ANY DOOR AT THE LATCH SIDE OF THE RESTROOM DOOR. ADAAG 703.4.2 ANSI 703.3.11 | DIAGRAM 4.6
2. THE RESTROOM SIGN MUST HAVE TACTILE CHARACTERS THAT ARE RAISED AT LEAST $\frac{1}{32}$". ADAAG 703.2.1 ANSI 703.2.4, 703.2.9 | DIAGRAM 4.6
3. THE RESTROOM SIGN MUST HAVE TACTILE CHARACTERS WITH HEIGHT BETWEEN $\frac{5}{8}$" AND 2" ADAAG 703.2.5 ANSI 703.2.4 TABLE 703.2.4 | DIAGRAM 4.6
4. THE RESTROOM SIGN WILL HAVE THE LOWEST TACTILE CHARACTER 48" MIN. AND THE BASELINE OF THE HIGHEST TACTILE CHARACTER 60" MAX. ADAAG 703.4.1 ANSI 703.3.10 | DIAGRAM 4.6
5. THE RESTROOM SIGN MUST HAVE BRAILLE. ADAAG 703.3 ANSI 703.3, 703.4 | DIAGRAM 4.6
6. THE RESTROOM SIGN MUST BE NON GLARE AND THE CHARACTERS MUST CONTRAST WITH THE BACKGROUND. ADAAG 703.5.1 ANSI 703.5.3 | DIAGRAM 4.6
7. THE FLOOR SURFACES IN THE RESTROOM CANNOT BE SLOPED GREATER THAN 2% IN ALL DIRECTIONS WITH NO ABRUPT CHANGE IN LEVEL GREATER THAN $\frac{1}{4}$" HIGH AND NO GAPS GREATER THAN $\frac{1}{2}$" WIDE. ADAAG 206.2.4, 302.3, 303, 403.2, 403.3, 403.4, ANSI 302.2, 303.3, 403.3
8. THERE MUST BE A 60" DIAMETER OR A T-TURN TURNING SPACE PROVIDED IN THE RESTROOM. ADAAG 304.3 | DIAGRAM 4.8
9. THERE MUST BE AN AUDIBLE AND VISUAL PUBLIC ALARM. ADAAG 702

WOMEN'S ENTRY DOOR |
1. ALL OPENING HARDWARE CAN BE OPERATED WITH A CLOSED FIST OR A FLAIL HAND AND MUST BE LOCATED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7 ANSI 404.2.6 | DIAGRAM 2.5
2. OPENING FORCE FOR ALL ACCESSIBLE INTERIOR AND EXTERIOR DOORS WILL NOT EXCEED 5 LBF. ADAAG 404.2.9 ANSI 404.2.8
3. DOOR CLOSING SPEED WILL BE 5 SECONDS OR MORE FROM 90 DEGREES TO 12 DEGREES FROM THE LATCH FOR ALL LEAVES OF THIS DOORWAY. ADAAG 404.2.8.1 ANSI 404.2.7.1
4. THE CLEAR WIDTH OF THE DOOR MUST BE A MINIMUM OF 32". ADAAG 404.2.3, 404.2.3 | FIGURE 404.2.4
5. THRESHOLDS FOR DOORS WILL NOT HAVE AN OVERALL HEIGHT GREATER THAN $\frac{1}{2}$" MAX, OR HAVE ABRUPT PORTIONS THAT ARE $\frac{1}{4}$" HIGH MAX. THE THRESHOLD MAY HAVE A 1:2 MAX BEVEL FOR ANY PORTION THAT IS GREATER THAN $\frac{1}{4}$" HIGH. ADAAG 404.2.5 ANSI 404.2.4
6. DOORS MUST HAVE A 10" HIGH SMOOTH SURFACE OR KICK PLATE LOCATED ON THE BASE OF THE PUSH SIDE OF ALL LEAVES OF THE DOORWAY. ADAAG 404.2.10
7. ALL DOORS MUST HAVE PULL AND PUSH SIDE MANEUVERING SPACES THAT COMPLY WITH FIGURE 404.2.4
8. THE REQUIRED MANEUVERING SPACES ON EACH SIDE OF THE DOOR MAY BE SLOPED 2% OR LESS IN ALL DIRECTIONS. ADAAG 404.2.4 ANSI 303.2

WOMEN'S LAVATORY |
1. THE TOP OF THE ACCESSIBLE LAVATORY MUST BE BETWEEN 28" TO 34" HIGH. ADAAG 213.3.4, 606.2, 606.3 | DIAGRAM 4.3
2. THERE MUST BE A 27" HIGH BY 30" WIDE BY 8" DEEP MINIMUM KNEE CLEARANCE UNDER THE LAVATORY ALONG WITH A 9" HIGH BY 30" WIDE BY 17" DEEP MINIMUM TOE CLEARANCE. ADAAG 213.3.4, 305.4, 306, 606.2 | DIAGRAM 4.3
3. ALL ACCESSIBLE LAVATORY PIPES MUST BE INSULATED OR OTHERWISE PROTECTED FROM CONTACT. ADAAG 213.3.4, 606.5 ANSI 606.6
4. THE FAUCET HARDWARE AT THE ACCESSIBLE LAVATORY MUST BE AUTOMATIC OR OPERABLE WITH A CLOSED FIST OR FLAIL HAND. ADAAG 213.3.4, 606.4 ANSI 606.4 | DIAGRAM 2.5
5. A MIRROR MUST BE PROVIDED THAT HAS A BOTTOM REFLECTING EDGE LOCATED A MAXIMUM OF 40" HIGH.

DISPENSERS/ACCESSORIES
1. IF THERE IS A CUSTOM USE LIGHT SWITCH, IT MUST BE MAXIMUM 48" IN AN ACCESSIBLE LOCATION. ADAAG 205.1, 308, 309.3
2. THERE MUST BE AT LEAST ONE TYPE OF EACH DISPENSER ON AN ACCESSIBLE ROUTE WITH A 30"X48" MINIMUM CLEAR FLOOR SPACE AND MUST BE MOUNTED WITH CONTROLS 48" MAXIMUM AFF. ADAAG 305.3, 308
3. THE DIAPER CHANGING STATION MUST BE ON AN ACCESSIBLE ROUTE WITH AN ACCESSIBLE CLEAR FLOOR SPACE. ADAAG 305, 902.1, 902.2 ANSI 308
4. THE DIAPER CHANGING PULL DOWN HANDLE AND ALL OTHER OPERABLE CONTROLS MUST BE LOCATED AT A MAXIMUM OF 48" HIGH AND THE SURFACE MUST BE A MAXIMUM OF 28"TO34" HIGH WHEN OPENED. 305, 902.1, 902.3
5. THE KNEE CLEARANCE FOR THE DIAPER CHANGING STATION (WHEN OPEN) MUST PROVIDE FOR 27". 306, 902.1, 902.2
6. ACCESSIBLE DISPENSERS MUST BE OPERABLE WITHOUT PINCHING, GRASPING OR TWISTING OF THE WRIST AND REQUIRE 5 LBF OR LESS TO OPERATE. ADAAG 205, 309.4 ANSI 309.4

WOMEN'S TOILET |
1. THERE MUST ACCESSIBLE TOILET SEAT LOCATED 17" TO 19" AFF AND CENTERED 16" TO 18" FROM SIDEWALL. ADAAG 604.4, 604.2 | DIAGRAM 4.7
2. THE TOILET FLUSH CONTROL MUST BE AUTOMATIC OR LOCATED ON THE OPEN SIDE OF THE TOILET. ADAAG 604.6 | DIAGRAM 4.7
3. A HORIZONTAL REAR WALL GRAB BAR MUST BE PROVIDED THAT IS 1$\frac{1}{4}$" TO $\frac{1}{2}$" IN DIAMETER, 36" LONG MIN, EXTENDING 12" MIN FROM THE TOILET CENTERLINE TOWARDS THE NEAR SIDE WALL, CENTERED 33" TO 36" ABOVE THE FLOOR TO THE TOP OF THE GRIPPING SURFACE AND WITH NO OBSTRUCTIONS WITHIN 12" ABOVE OR 1$\frac{1}{2}$" BELOW THE BAR. ADAAG 604.5.2, 609 ANSI 604.1, 604.5.2, 609 |DIAGRAM 4.1
4. THE URINALS FLUSH CONTROL MUST BE AUTOMATIC OR 48" HIGH MAX AND BE OPERABLE WITH NO MORE THAN 5LBF OF PRESSURE. ADAAG 605.4 ANSI 604.6 | DIAGRAM 4.4
5. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42" LONG POSITIONED NO MORE THAN 12" FROM THE REAR WALL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36" LONG. VERTICAL GRAB BARS TO BE 18" IN LENGTH AND 39-41" AFF AND 39-41" FROM REAR WALL (IBC 1607.7 & ANSI 604.8.4.1) (ICC/ANSI A117.1-2003 FIG. 604.5.1) ANSI 604.5.1, 609.4 | DIAGRAM 4.1
6. THE CENTERLINE OF THE TOILET DISPENSER MUST BE LOCATED 7" TO 9" FROM THE FRONT OF THE CLOSET AND AT LEAST 1-1/2" BELOW THE SIDE WALL GRAB BAR OR AT LEAST 12" ABOVE THE GRAB BAR. IT ALSO MUST BE LOCATED 15" TO 48" MAXIMUM ABOVE THE FLOOR. ADAAG 604.7, 609.3 | DIAGRAM 4.7
7. IF THE ACCESSIBLE WATER CLOSET IS IN A COMPARTMENT, IT MUST HAVE AT LEAST 60" MINIMUM CLEARANCE MEASURED PERPENDICULAR FROM THE SIDE WALL PROVIDED. ADAAG 604.3 | DIAGRAM 4.7
8. WATER CLOSET MUST ALSO HAVE 56 MINIMUM CLEARANCE MEASURED FROM THE REAR WALL AND HAVE A WIDTH OF A MINIMUM OF 60". ADAAG 604.8.1.1 | DIAGRAM 4.6
9. IF THE WATER CLOSET IS WALL-HUNG, THE DEPTH OF THE COMPARTMENT MUST BE A MINIMUM OF 56". ADAAG 604.8.1.1 | DIAGRAM 4.7
10. IF THE WATER CLOSET IS FLOOR-MOUNTED, THE COMPARTMENT MUST HAVE A DEPTH OF AT LEAST 59". ADAAG 604.8.1.1 | DIAGRAM 4.7
11. THE COMPARTMENT MUST PROVIDE AT LEAST 6" DEEP MINIMUM SPACE AT THE FRONT OF THE COMPARTMENT AND ONE OTHER SIDE. ADAAG 604.8.1.1 | DIAGRAM 4.7
12. IF THE TOILET COMPARTMENT IS SELF-CLOSING, PROVIDE A CLEAR OPENING WIDTH OF AT LEAST 32" AND WITHIN 4" OF THE COMPARTMENT CORNER DIAGONALLY OPPOSITE THE TOILET. ADAAG 604.8.1.2 | DIAGRAM 4.7
13. ALL ACCESSIBLE TOILET COMPARTMENT DOOR HARDWARE MUST BE CENTERED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7 | DIAGRAM 4.7
14. IF THE ACCESSIBLE COMPARTMENT DOOR IS OUT-SWINGING, THE EXTERIOR MANEUVERING SPACES MUST BE COMPLIANT WITH FIGURE 404.2.4 ADAAG 604.8.1.2 | FIGURE 404.2.4
15. ALL ACCESSIBLE COMPARTMENT DOOR HARDWARE MUST BE OPERABLE WITH A FIST OR FLAIL HAND. ADAAG 604.8.1.2, 404.2.7 | DIAGRAM 2.3
16. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR MUST BE EQUIPPED WITHA LOOP OR U-SHAPED HANDLE. ADAAG 604.8.1.2
17. AT LEAST ONE OF EACH HOOK AND DISPENSER IN THE ACACESSIBLE COMPARTMENT MUST BE AT 48" MAXIMUM AFF. ADAAG 213.3.7, 603.4, 604.8.3, 308

WOMEN'S AMBULATORY COMPARTMENT
1. IF THERE ARE 6 OR MORE TOILET COMPARTMENTS AND URINALS COMBINED AN AMBULATORY COMPARTMENT MUST BE PROVIDED THAT IS 35" TO 37" WIDE AND AT LEAST 60" LONG. ADAAG 213.3.1, 604.8.2.1
2. THE COMPARTMENT DOOR MUST PROVIDE AT LEAST 32" OF CLEAR OPENING WIDTH AND ADAAG 604.8.2.2
3. ALL HARDWARE MUST BE OPERABLE WITH A CLOSED FIST AND MUST BE CENTERED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7
4. THE TOILET MUST BE CENTERED 17-19" FROM THE SIDE WALL. ADAAG 604.2
5. THERE MUST BE 2 HORIZONTAL SIDEWALL GRAB BARS PROVIDED IN THE AMBULATORY COMPARTMENT THAT ARE 1-1/4" TO 1-1/2" IN DIAMETER, 42" LONG MINIMUM, EXTENDING 54" MINIMUM FROM THE REAR WALL. ADAAG 604.8.2.3

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

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SHEET TITLE
COVER SHEET

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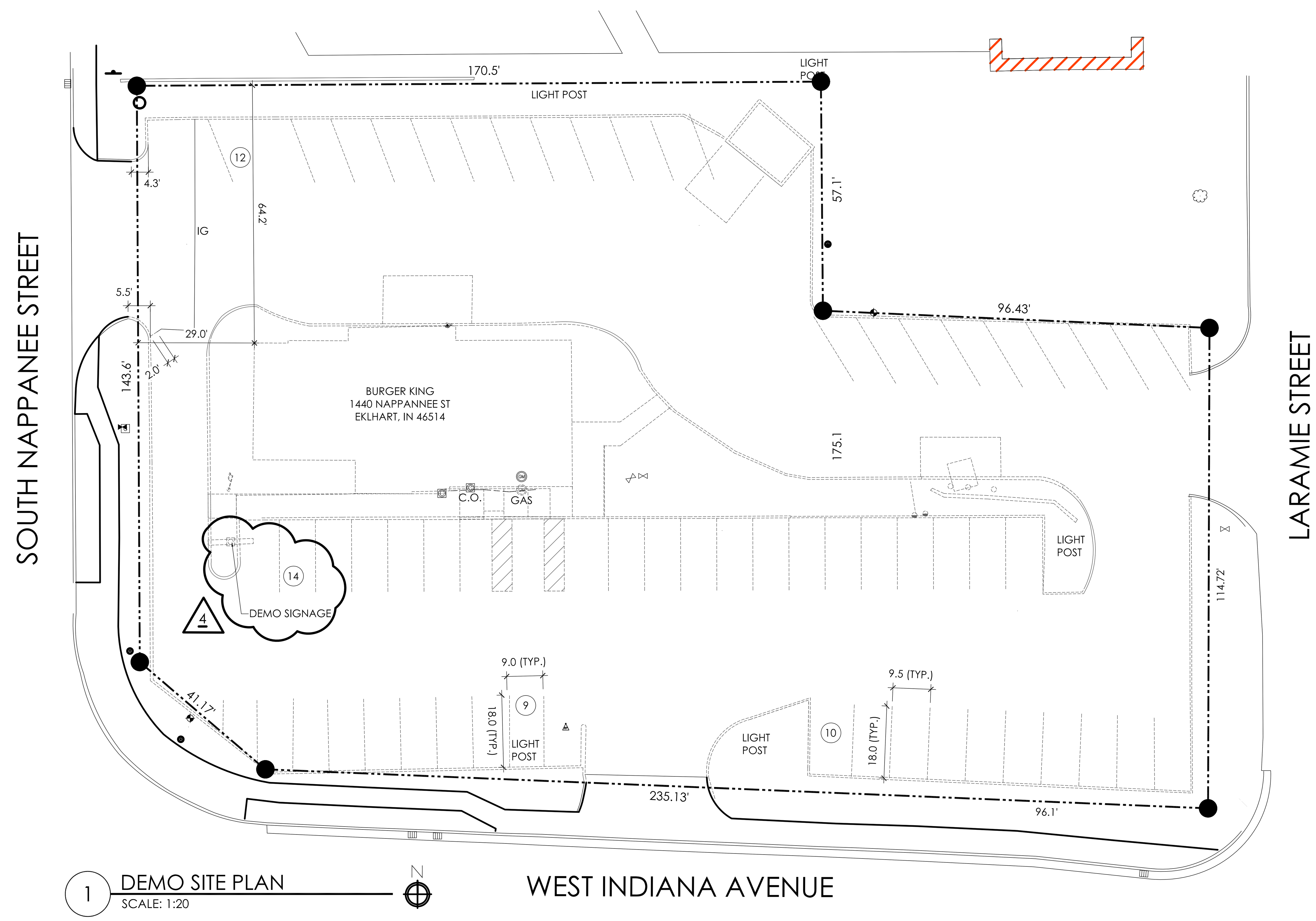
JOB #
TG-21668

SHEET
T-1.1




1 DEMO SITE PLAN
SCALE: 1:20

## GENERAL SIGNAGE NOTES

SIGN INSTALLER RESPONSIBILITIES:
1. PROVIDE ALL DRAWINGS NECESSARY FOR SIGN PERMITS.
2. APPLY FOR, OBTAIN, AND PAY FOR ALL REQUIRED SIGN PERMITS.
3. COORDINATE EXCAVATION OF SIGN FOUNDATIONS WITH G.C.
4. SET ANCHOR BOLTS OR BASE PLATES AS REQUIRED.
5. COMPLETE SIGN INSTALLATION.
6. REMOVE EXCESS DEBRIS, ROUGH GRADE AREA FOR LANDSCAPING.

GENERAL CONTRACTOR RESPONSIBILITIES:
1. COORDINATE EXCAVATION OF SIGN FOUNDATIONS WITH SIGN SUPPLIER.
2. PROVIDE POWER TO ALL SIGN LOCATIONS AS REQUIRED.
3. MAKE FINAL ELECTRICAL CONNECTIONS TO EACH SIGN.

4

## DEMO SCOPE OF WORK

DEMO EXISTING BUILDING INCLUDING SLAB AND FOUNDATION.

DEMO CONC. THROUGHOUT. (CURB CUTS TO ROADS TO REMAIN.)

DEMO OCU , MENU BOARD, AND PREVIEW BOARD AND FOUNDATIONS.

DEMO CURBS THROUGHOUT

DEMO SIDEWALK.

DEMO ADA RAMP AT BUILDING ENTRANCE.

MILL ASPHALT PARKING LOT TO SUBGRADE.

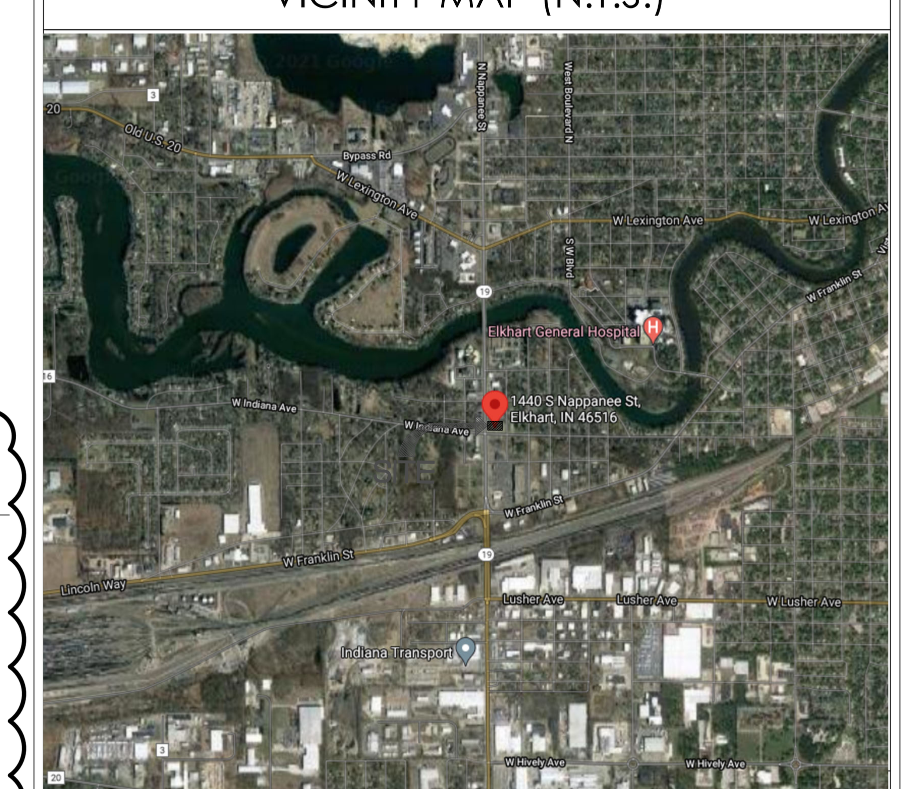
## STANDARD SPECIFICATIONS

GENERAL CONTRACTOR TO REFERENCE STANDARD SPECIFICATIONS OF THE CITY OF ELKHART WHICH CAN BE FOUND IN DIVISION C OF THE PROVIDED LINK.

https://elkhartindiana.org/wpfd_file/standard-specifications-for-construction-2019/

4

## VICINITY MAP (N.T.S.)




811
KNOW WHAT IS **BELOW**
**CALL** BEFORE
YOU DIG

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
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| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
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AZIZ S. BOU-MAROUN
REGISTERED
No. 910361
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

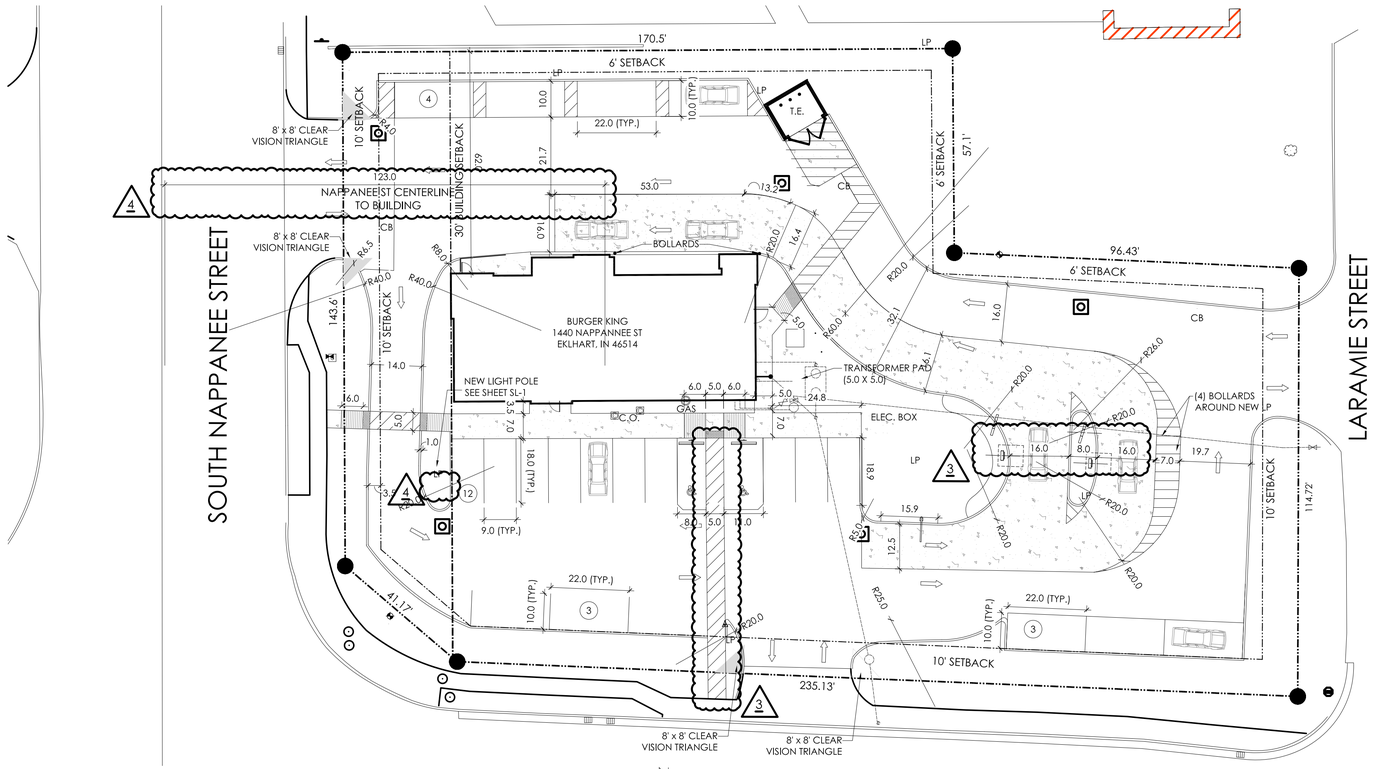
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
DEMO SITE PLAN

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

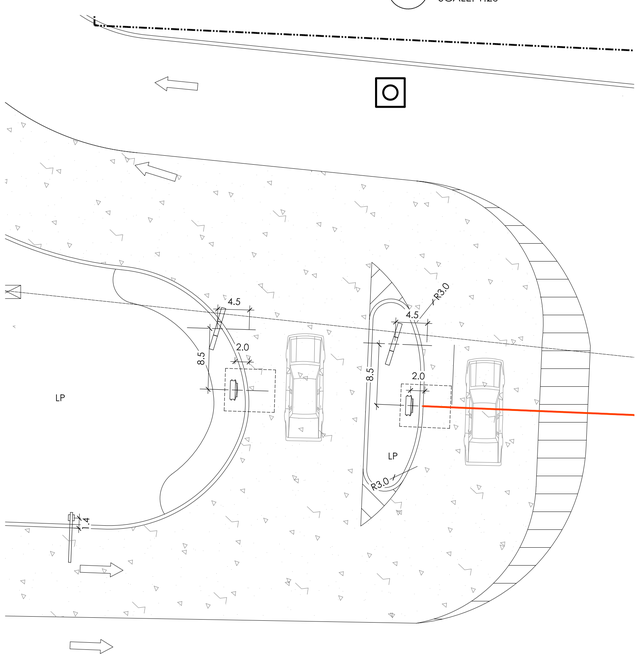
JOB # TG-21668

SHEET C-1

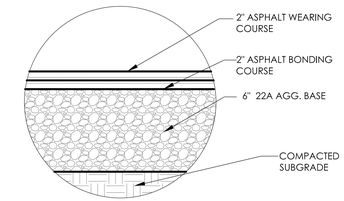



1 PROPOSED SITE PLAN
SCALE: 1:20

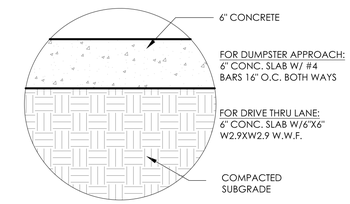
WEST INDIANA AVENUE




2 ENLARGED DRIVE THRU PLAN
SCALE: 1:10




3 ASPHALT PAVING DETAIL
SCALE: NTS




4 CONCRETE DETAIL
SCALE: NTS

## PROPOSED SCOPE OF WORK

INSTALL NEW CONCRETE CURBS AS SHOWN.

INSTALL CONC. DOUBLE DRIVE THRU LANE AS SHOWN.

INSTALL NEW CONC. PAD FOR TRASH ENCLOSURE.

INSTALL NEW STORM DRAIN AND CATCH BASIN.

INSTALL NEW CONC. SIDEWALKS. CONNECT TO CITY SIDEWALK.

INSTALL CLEARANCE SIGN AND FOUNDATION PER 20/20. REFER TO SHEET C-3 FOR DETAIL.

INSTALL NEW DT LOOPS AT OCUs AND DT WINDOW. NEW ELECTRICAL AND DATA LINES BY GC TO ALL DT COMPONENTS. (SEE SHEET E-1)

INSTALL DT CANOPY W/ INTERNAL OCU & BURY CONDUITS. OCU HAS NEW FOUNDATION & REFLECT NEW IMAGE. REFER TO SHEET C-3 FOR DETAIL.

LAY NEW ASPHALT PARKING LOT AND STRIPE AS PER LAYOUT .

STRIPE ACCESSIBLE PARKING STALLS AS PER PLAN. INSTALL PARKING SIGNAGE FOR ADA SPACES. REFER TO SHEET C-3 SITE DETAILS. ALL STRIPING TO BE WHITE IN ACCORDANCE WITH CITY.

INSTALL & SECURE NEW WHEEL STOPS AT ADA SPACES PER PLAN. SEE SHEET C-3 FOR INSTALLATION DETAIL.

INSTALL NEW BOLLARDS AT D/T WINDOWS.

PROVIDE DRIVE THRU MARKINGS AND ARROWS PER LAYOUT.

UPDATE LANDSCAPING AS REQUIRED AS PER OWNER. (SEE SHEET LS-1.)

INSTALL NEW LIGHT POLE. (SEE SHEET SL-1)

## GENERAL SIGNAGE NOTES

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GENERAL CONTRACTOR:

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## STANDARD SPECIFICATIONS

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3

## PARKING CALCULATION

| | |
|---|---|
| TOTAL NUMBER OF SEATS: | 40 |
| CALCULATION: | 40/2.5= 16 SPACES MIN. |
| TOTAL NUMBER OF EMPLOYEES: | 6 |
| CALCULATION: | 6/1= 6 SPACES MIN. |
| **NUMBER OF SPACES REQUIRED:** | **22** |
| **NUMBER OF SPACES PROVIDED:** | **22** |

## SITE AREA

| | |
|---|---|
| TOTAL SITE AREA: | 40,776 SF (0.94 ACRES) |
| BUILDING AREA: | 3,130 SF |
| NUMBER OF PARKING SPACES REQUIRED/PROVIDED: | 22 SPACES |
| NUMBER OF HANDICAP SPACES: | 2 (1 VAN ACCESSIBLE) |

| No. | Date | By | Notes |
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AZIZ S. BOU-MARUN
REGISTERED
No. 910361
STATE OF INDIANA
PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
PROPOSED SITE PLAN

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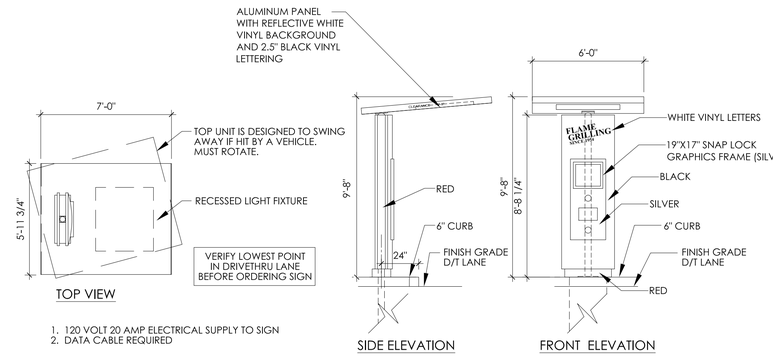
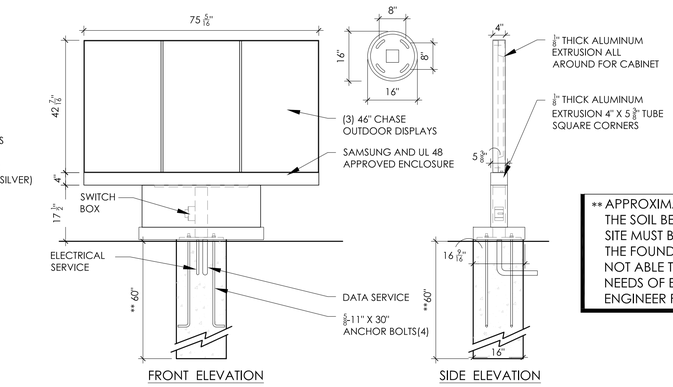
JOB #
TG-21668

SHEET
C-2



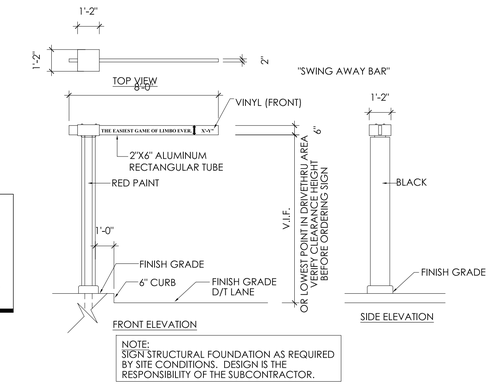

1. 120 VOLT 20 AMP ELECTRICAL SUPPLY TO SIGN
2. DATA CABLE REQUIRED

## 1 ORDER CONFIRMATION ELEVATIONS
SCALE: NO SCALE



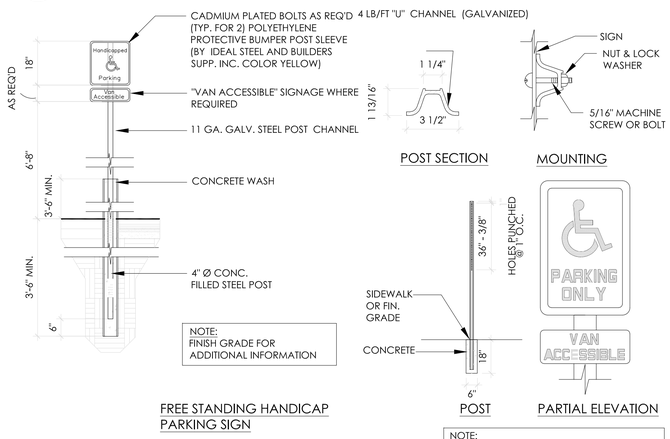

** APPROXIMATE FOUNDATION MEASUREMENTS. THE SOIL BEARING CAPACITY AT THE ERECTION SITE MUST BE CONSIDERED WHEN DESIGNING THE FOUNDATION. THE SIGN MANUFACTURER IS NOT ABLE TO PREDETERMINE THE SPECIFIC NEEDS OF EACH LOCATION. CONSULT A LOCAL ENGINEER FOR DESIGN SPECIFICATIONS.

## 2 MENU BOARD DETAILS
SCALE: NO SCALE



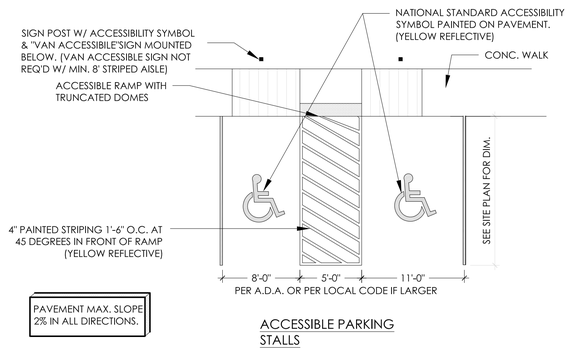

NOTE:
SIGN STRUCTURAL FOUNDATION AS REQUIRED BY SITE CONDITIONS. DESIGN IS THE RESPONSIBILITY OF THE SUBCONTRACTOR.

## 3 DRIVE THRU CLEARANCE SIGN DETAIL
SCALE: NO SCALE



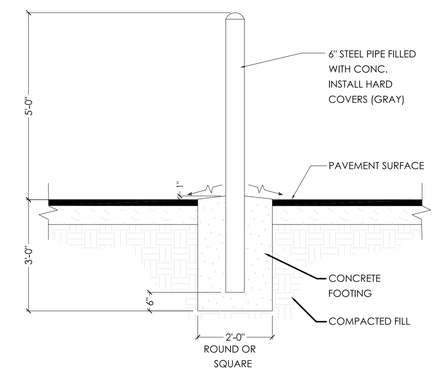

NOTE:
SIGN STRUCTURAL FOUNDATION AS REQUIRED BY SITE CONDITIONS. DESIGN IS THE RESPONSIBILITY OF THE SUBCONTRACTOR.

## 4 ACCESSIBLE PARKING, SIGN & RAMP DETAILS
SCALE: NO SCALE

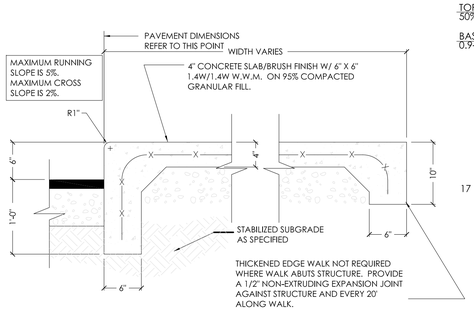



PAVEMENT MAX. SLOPE 2% IN ALL DIRECTIONS.

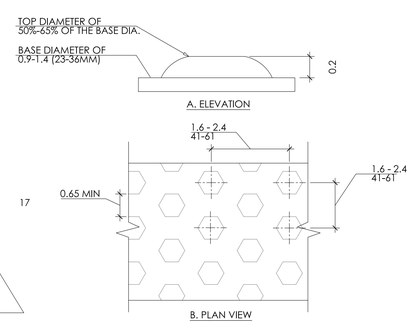
## 5 ACCESSIBLE PARKING/RAMP DETAIL
SCALE: NO SCALE



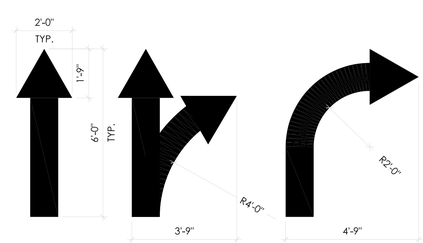

## 6 BOLLARD DETAIL
SCALE: NO SCALE



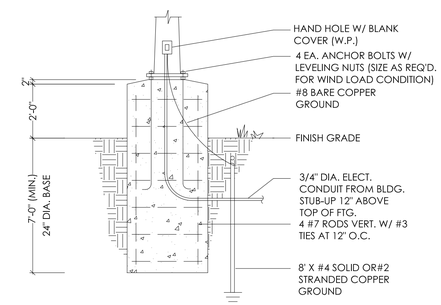

## 7 SIDEWALK DETAIL
SCALE: NO SCALE




## 8 TRUNCATED DOME DETAILS
SCALE: NO SCALE




## 9 PAINTED ARROW DETAILS
SCALE: NO SCALE




## 10 LIGHT POST FOUNDATION DETAIL
SCALE: NO SCALE

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AZIZ S. BOU-MARON REGISTERED No. 910381 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
SITE DETAILS

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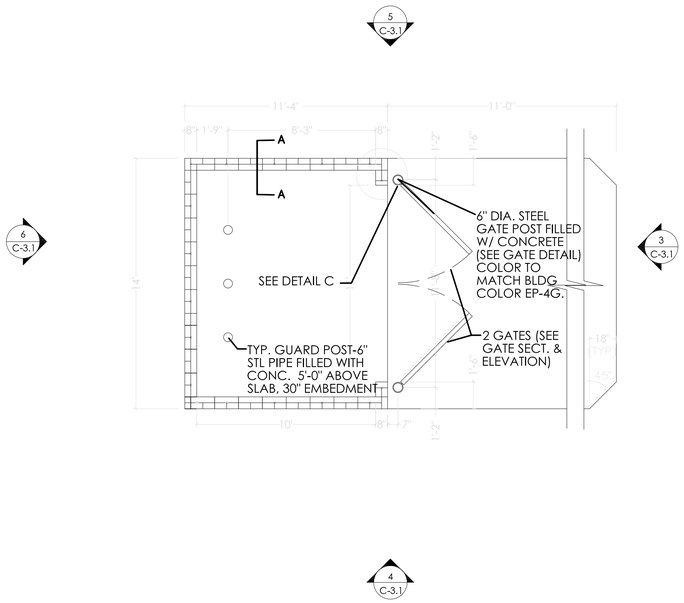
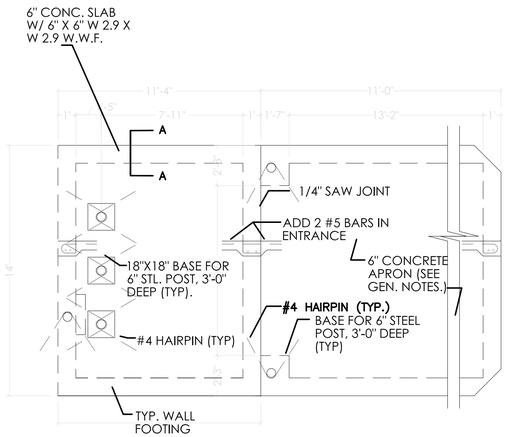
JOB # TG-21668

SHEET C-3




1 TRASH ENCLOSURE WALL PLAN

SCALE: $\frac{3}{16}$"=1'-0"

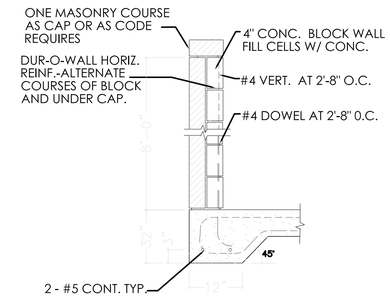



FOUNDATION PLAN 3/16"=1'-0"

NOTE:
THE CONCRETE TRASH ENCLOSURE APRON SHALL BE 6" THICK OF 3,000 PSI CONC. REINFORCED W/ #4 @16" O.C. EACH WAY. OPTIONAL TO COLOR CONCRETE BLACK USING ADMIXTURE (CHROMIX C-24 CHARCOAL BY SCOFIELD CO., OR EQUAL.)

2 TRASH ENCLOSURE FOUNDATION PLAN

SCALE: $\frac{3}{16}$"=1'-0"

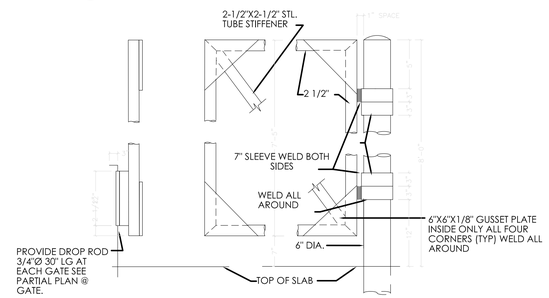



NOTES:

1. MASONRY VENEER TO MATCH BUILDING EB-1 (OR EB-1A IF USED) AND PAINT EP-4G ON 4" CONC. BLOCK WALL. SEE SECTION "A-A" FOR DETAILS.
2. 6" CONC. SLAB W/6"X6" W2.9XW2.9 W.W.F.
3. TYP. WALL FTG. 12" X 12" CONT. W/2#5 BOT. REINF.
4. 6" CONC. APRON W/#4 BARS 16" O.C. BOTH WAYS.
5. FOR SLAB FINISHED GRADES, SEE GRADING PLAN.
6. ALL STEEL & ALUMINUM FINISHES ARE TO BE PAINTED TO MATCH BUILDING COLOR EP-4G.
7. ALL PANELS FOR GATES ARE TO BE THRU-BOLTED TO TUBE FRAME WITH 3/8" GALV. BOLTS AND HARDWARE.

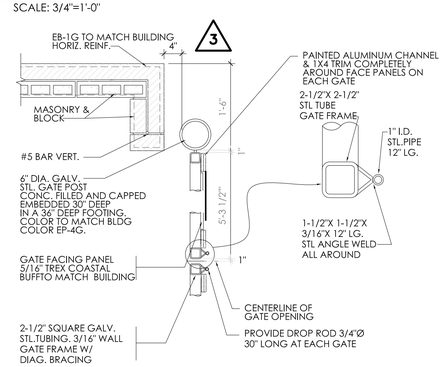
A SECTION AT GATE

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



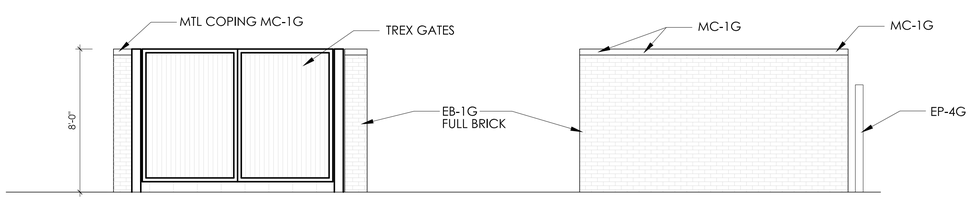

B PARTIAL SECTION AT GATE

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




C GATE HARDWARE DETAIL

SCALE: NO SCALE

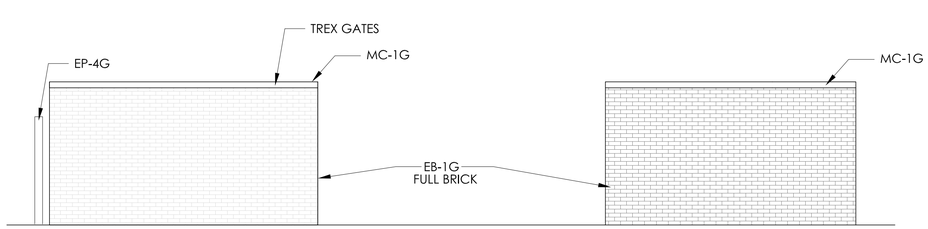



3 TRASH ENCLOSURE ELEVATION

SCALE: $\frac{1}{4}$"=1'-0"

4 TRASH ENCLOSURE ELEVATION

SCALE: $\frac{1}{4}$"=1'-0"




5 TRASH ENCLOSURE ELEVATION

SCALE: $\frac{1}{4}$"=1'-0"

6 TRASH ENCLOSURE ELEVATION

SCALE: $\frac{1}{4}$"=1'-0"

NOTE:
GATE HARDWARE DETAIL SIMILAR TO DETAIL C (SEE SHEET C-3.1)

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BURGER KING CORPORATION

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AZIZ S. BOU-MARON
REGISTERED
No. 910081
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
DUMPSTER ENCLOSURE DETAILS

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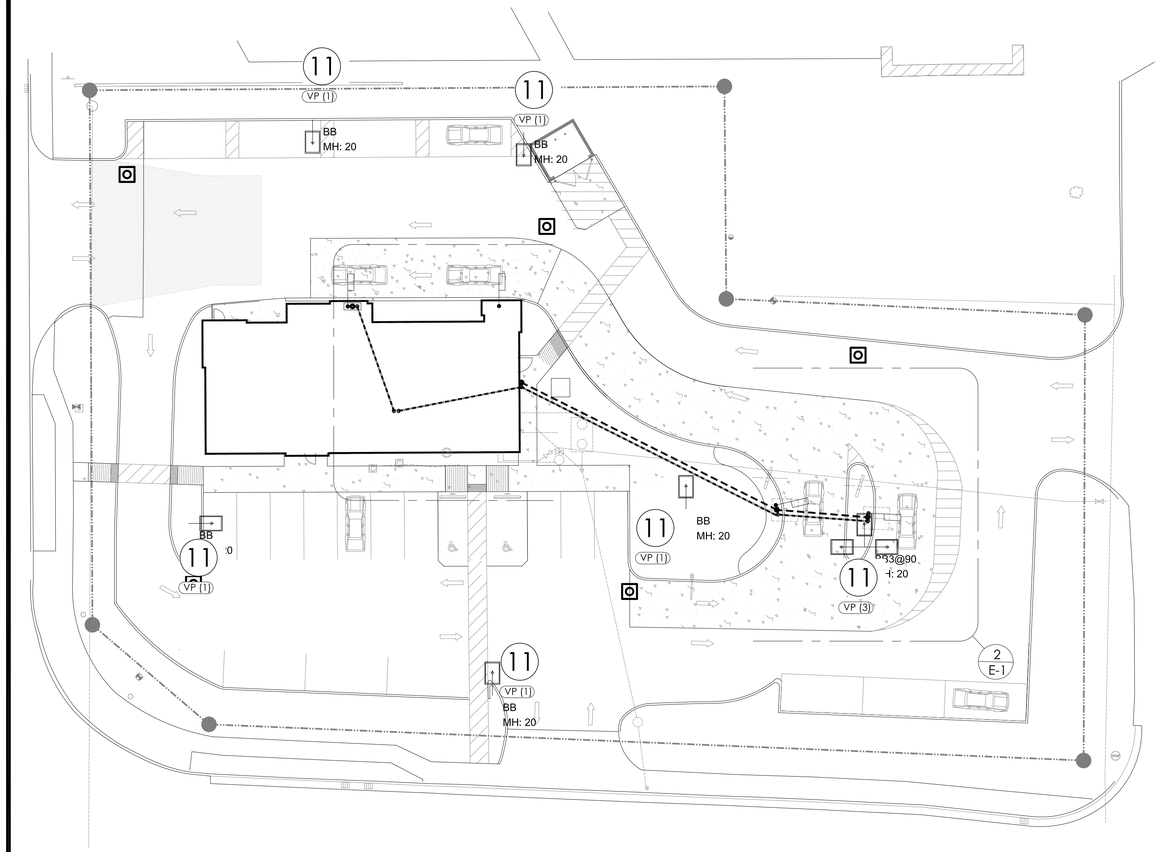
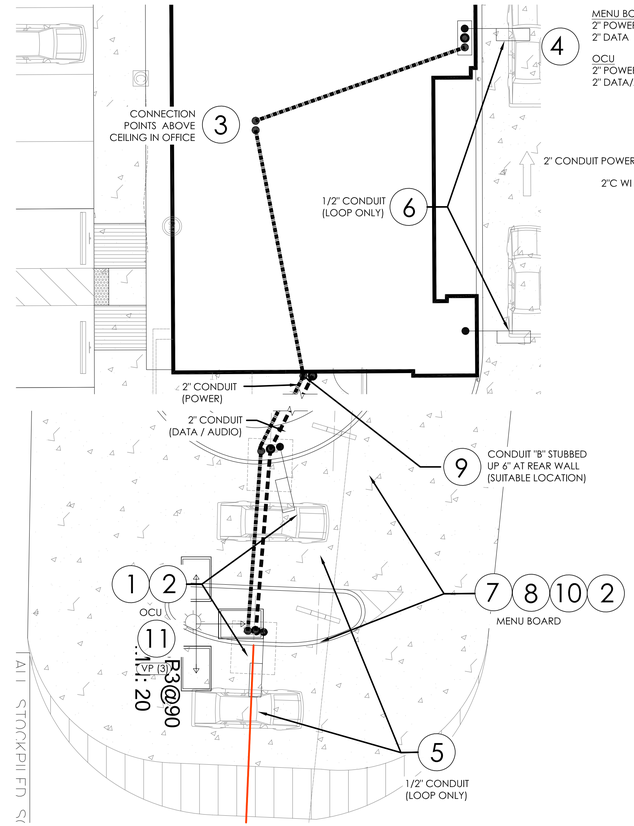
JOB # TG-21668

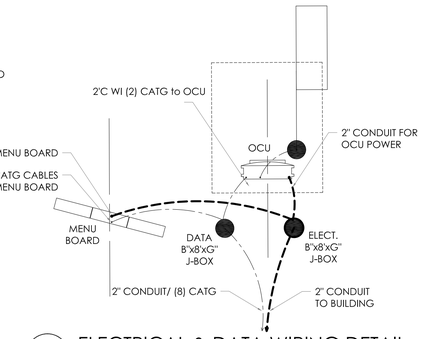
SHEET C-3.1




1 ELECTRICAL SITE LIGHTING PLAN
SCALE: 1:20




2 ELECTRICAL SITE PLAN
SCALE: 1:10

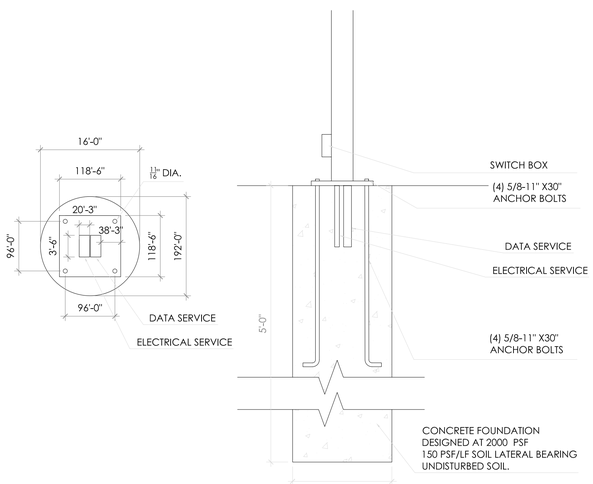



A ELECTRICAL & DATA WIRING DETAIL
NOT TO SCALE

30° ROTATION ANGLE SHOULD BE CONSIDERED OPTIMAL. ANGLES BETWEEN THE PREFERRED LAYOUT AND MINIMUM LAYOUT ARE ACCEPTABLE AS LONG AS,
I) THE DISTANCE FROM THE CENTERLINE OF THE SUPPORT POLES OF THE MENU BOARD AND TO THE FACE OF CURB ARE REDUCED BY 4" FOR EVERY 5 DEGREES OF ROTATION, AND:
(2) THE DISTANCE FROM THE CENTERLINE OF THE ORDER CONFIRMATION UNIT AND THE CENTERLINE OF THE MENU BOARD IS REDUCED BY 3" FOR EVERY 5 DEGREES OF ROTATION.

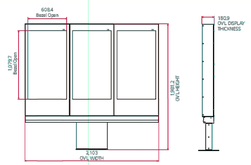
## LIGHT FIXTURE SCHEDULE

| FIXTURE TYPE: | TAG | SYMBOL | FIXTURE QUANTITY | CONFIG | QUANTITY | TENON TOP FITTERS | MOUNTING HEIGHT |
|---|---|---|---|---|---|---|---|
| VP-L/80NB-235/5K/T4/UNV/RA/** | VP (1) | | 5 | DBL45 | 5 | TTFVIPER | EXIST |
| VP-L/80NB-235/5K/T4/UNV/RA/** | VP (3) | | 1 | DBL45 | 3 | TTFVIPER | EXIST |



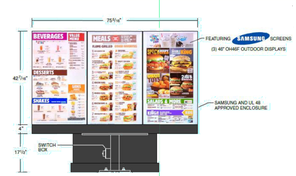

B MENU BOARD BASE PLATE/ FOUNDATION DETAIL
SCALE: 1"=1'-0"

### LG ODMB Specifications



| Specifications & Measurements | | | |
|---|---|---|---|
| Panel | Screen Size | | 49" |
| | Panel Technology | | IPS |
| | Aspect Ratio | | 16 : 9 |
| | Native Resolution | | 1,920 x 1,080 (FHD), M+ (WRGB) |
| | Brightness* | | 3,000-nit |
| | Viewing Angle *H x V) | | 178 x 178 |
| | Response Time | | 8 ms (G to G BW, Typ.) |
| | Surface Treatment | | Hard Coating (2H), Anti-reflection Treatment of the Front Polarizer (Haze 3% (Typ.)), QWP |
| | QWP Polarizer | | Yes |
| | Life Time | | 50,000 Hrs. |
| | Operation Hours | | 24 Hrs. |
| | Orientation | | Portrait Only |
| Connectivity | Input | | HDMI, DP, DVI-D, Audio I, USB 3.0 |
| | Output | | DP, External Speaker Out |
| | External Control | | RS232C In/out, RJ45 In |
| Physical Specification | Front Glass | | 6.8 mm (AR, Tempered & Laminated glass) |
| | Bezel Color | | Black |
| | Bezel Width | | 103.0 mm (T), 262.0 mm (B), 46.5 mm (L/R) |
| | Pre-sell Dimension | | 27.6" x 7.1" x 78" |
| | Menu-Board Dimension | | 106.4" x 7.1" x 78" |
| | Pre-sell Weight | | 220 lbs. |
| | Menu Board Weight | | 528 lbs. |
| Power | Power Supply | | 100-240v~, 50/60Hz |
| | Power Type | | Built-in Power |
| | Power Consumption | Typ./Max | 290 W / 440W |
| | | Smart Energy Saving | 145 W |

### Samsung/LSI ODMB Specifications



| Specifications & Measurements | | | |
|---|---|---|---|
| Display | Diagonal Size | TV | 46" |
| | | Screen | 45.0" /116.8cm |
| | Type | | 120Hz E-LED BLU |
| | Resolution | | 1920 x 1080 (16:9) |
| | Brightness (Typ.) | | 2,500 |
| | Contrast Ratio (Typ.) | | 5000:1 |
| | Viewing Angle (H/V) | | 178/178 |
| | Response Time (G-to-G) | | 6ms |
| | Operation Hour | | 24/7 |
| Connectivity | Input | RGB | N/A |
| | | Video | HDMI 1.4 (2), HDBaseT (LAN Common) |
| | | HDCP | HDCP 2.2 |
| | | USB | USB 2.0 (1) |
| | Output | Audio | Stereo Mini Jack |
| | External Control | | RS232C (In/Out), RJ45 (In/Out), HDBaseT |
| Power Type | Type | | Internal |
| | Power Supply | | AC100-240V~(+/-10%),50/60Hz |
| | Power Consumption | Max [W / H] | 468 |
| | | Typical [W / H] | 440 |
| | | Sleep Mode | <0.5W |
| | | Off Mode | <0.5W |
| Dimensions | Pre-sell (1 x 1) | | |
| | Menu Board (1 x 3) | | 75.3" x 4" x 42.4" |
| Weight | Pre-sell (1 x 1) | | |
| | Menu Board (1 x 3) | | |

## STANDARD SPECIFICATIONS

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4

## CONNECTIONS

1. DEDICATED 120V SINGLE PHASE CONSTANT POWER TO OCU.
2. 120V SINGLE PHASE POWER FOR CANOPY LIGHTS, MENUBOARD, OCU.
3. DATA AND SPEAKER CABLES CONNECT TO POS RACK IN OFFICE (PULL WITHOUT CONNECTORS).
4. AUDIO CABLES FOR SPEAKERS CONNECT TO MAIN UNIT AT THE DRIVE-THRU WINDOW.
5. PRIMARY DETECTOR LOOP WIRE CONNECTS.
6. SECONDARY DETECTOR LOOP CONNECTS TO POS THROUGH TIMING SYSTEM.
7. OUT DOOR MENU BOARD REQUIRES A DEDICATED 20 AMP BREAKER .
8. CONNECT THE ENCLOSURE'S GFCI TO POWER FEED. THE DUPLEX OUTLET FOR PLUGGING IN THE SICOM-PROVIDED POWER STRIP IS PRE-WIRED TO THE GFCI.
9. CAT5/CAT6 CABLE TO BE RAN FROM BACK OFFICE NETWORK SWITCH TO OUTDOOR MENU BOARD PEDESTAL.
10. STATIC LAN IP ADDRESS IN THE POS VLAN ASSIGNED FOR EACH SCREEN AS PER STANDARD.
11. ALL EXTERIOR LIGHTS (INCLUDING EXTERIOR BUILDING LIGHTS, POLE LIGHTS AND LIGHTBAND) TO BE CONNECTED TO PHOTOCELL, RE-USE EXISTING CIRCUITS AND INSTALL BREAKER LOCKS.

## VENDORS

SICOM MEDIA PLAYER

- **SICOM**
  MICHAEL SCHWARTZ (BKSALES@SICOM.COM)
  1-800-547-4266 EXT 5.

OUTDOOR DIGITAL MENU BOARD (ODMB)

- **SAMSUNG/LSI**
  SARA GROFCSIK (S.GROFCSIK@SEA.SAMSUNG.COM)

  STEPHANYA FLORES (S1.FLORES@PARTNER.SEA.SAMSUNG.COM)
- **LG**
  JOE INGERMAN (JOSEPH.INGERMAN@IGE.COM)
  847-941-8838

INSTALLATION

- **LSI**
  KEVIN TOWNSEND (KEVIN.TOWNSEND@LSI-INDUSTRIES.COM)
  330-494-1941

NOTE:
IF A ODMB IS PURCHASED WITH AN INTEGRATED OCU, PLEASE COORDINATE WITH YOUR SIGNAGE VENDOR FOR THEM TO PROVIDE A OCU COVER PLATE FOR THE OCU CANOPY.

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
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| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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BURGER KING CORPORATION

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FARMINGTON HILLS, MI 48331
P: (248) 426-8000 F: (248) 426-7004

AZIZ S. BOU-MARUN REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
SITE ELECTRICAL

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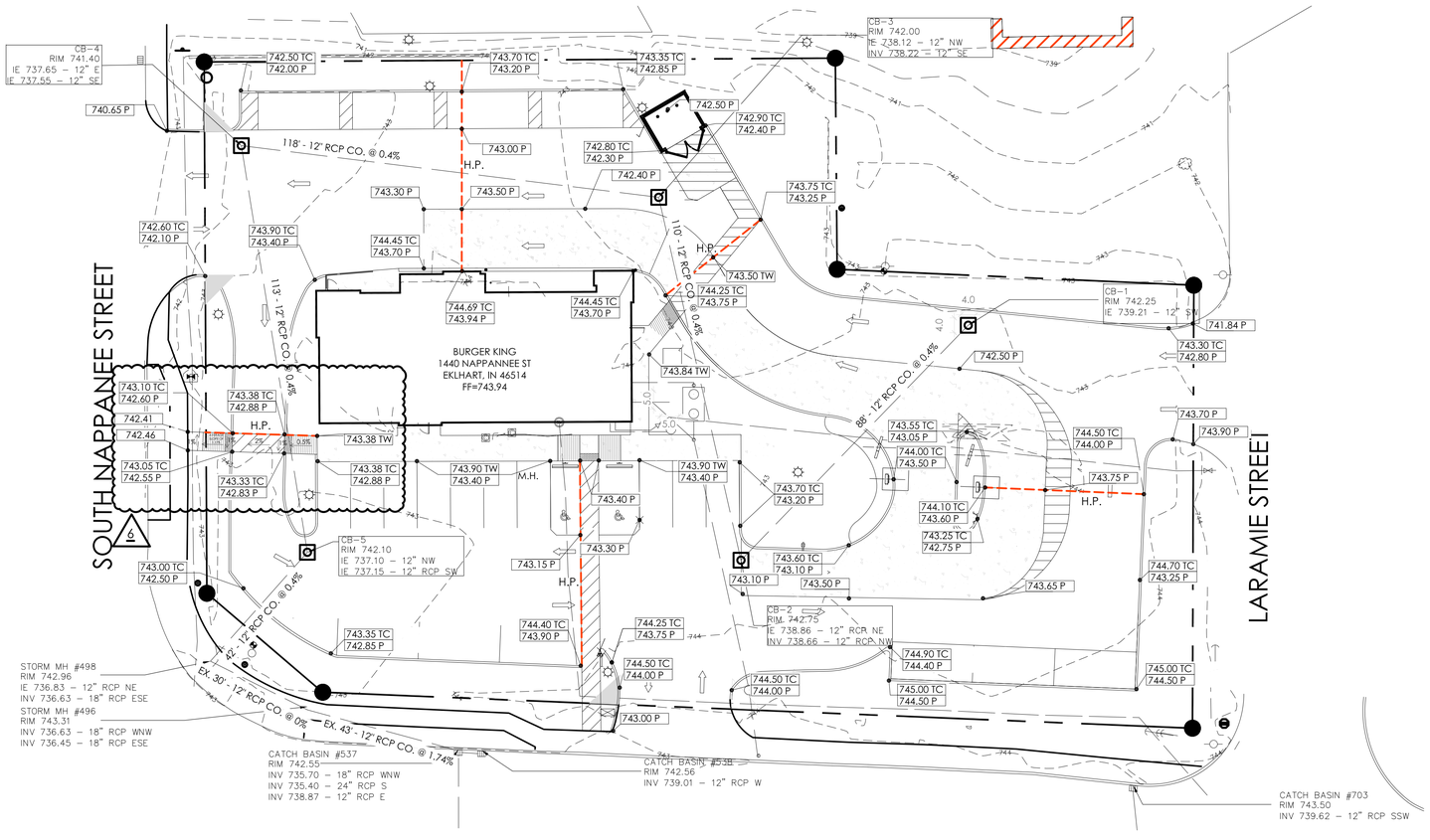
JOB #
TG-21668

SHEET
C-4




1 GRADING PLAN
SCALE: 1:20

## NOTES

1. THE INFORMATION DEPICTED ON THESE CONSTRUCTION DOCUMENTS IS AS ACCURATE AS POSSIBLE WITH REGARD TO THE INFORMATION PROVIDED BY THE SURVEYOR. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL EXISTING GRADES PRIOR TO CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE AND THE ENGINEER OF RECORD IMMEDIATELY OF ANY DISCREPANCY FOUND BETWEEN THE FIELD CONDITIONS AND THESE PLANS.
2. ALL PROPOSED SPOT ELEVATIONS AND CONTOURS SHOWN ON THE PLAN ARE PROPOSED FINISHED GRADES. FINISHED GRADE ADJACENT TO THE BUILDING SHALL BE 6" MINIMUM BELOW THE FINISHED FLOOR ELEVATION OF THE BUILDING INCLUDING ANY TOPSOIL, MULCH, AND/OR SOD. THE GENERAL CONTRACTOR SHALL ADJUST SUB GRADE ELEVATIONS ACCORDINGLY TO ENSURE POSITIVE DRAINAGE AWAY FROM THE BUILDING. SEE THE BUILDING PLANS FOR FURTHER DETAILS. GENERAL CONTRACTOR SHALL ALSO ADJUST SUB GRADE ELEVATION IN ALL LANDSCAPED ISLANDS TO ACCOUNT FOR TOPSOIL AND MULCH. SEE LANDSCAPE PLANS FOR FURTHER DETAIL.
3. WALKS AND SIDEWALKS SHALL HAVE A CONTINUOUS COMMON SURFACE NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING ½" AND SHALL BE A MINIMUM OF 48" IN WIDTH.
4. WALKING SURFACE CROSS SLOPES SHALL NOT EXCEED 2%.
5. WALKS, SIDEWALKS AND PEDESTRIAN WAYS SHALL BE FREE OF GRATING WHENEVER POSSIBLE. FOR GRATINGS LOCATED IN THE SURFACE OF ANY OF THESE AREAS, GRID OPENINGS IN THE GRATINGS SHALL BE LIMITED TO ½" IN THE DIRECTION OF TRAFFIC FLOW.
6. ON ACCESSIBLE ROUTES, WHEN THE SLOP IN THE DIRECTION OF TRAVEL OR ANY WALK EXCEEDS 1V:20H, IT SHALL COMPLY WITH THE PROVISIONS OF A PEDESTRIAN RAMP.
7. PER ADA STANDARDS FOR ACCESSIBLE DESIGN 4.5.2: ON ACCESSIBLE ROUTES, CHANGES IN ELEVATION UP TO ½" ARE ALLOWED. CHANGES GREATER THAN 1V:2H AND CHANGES GREATER THAN ½" MUST BE BEVELED.
8. ALL WALKS WITH CONTINUOUS SLOPE SHALL HAVE LEVEL AREAS AT LEAST 5 FEET IN LENGTH AT INTERVALS OF AT LEAST EVERY 400 FEET.
9. ASPHALT ELEVATION ADJACENT TO CATCH BASINS TO BE ½" ABOVE RIM ELEVATION SHOWN FOR CATCH BASIN (TYPICAL).
10. INSTALL ALL NECESSARY EROSION CONTROL MEASURES PRIOR TO THE START OF ANY GRADING ACTIVITIES. REFER TO THE EROSION CONTROL PLAN FOR DETAILS AND PROCEDURES.
11. NO GRADING ACTIVITIES SHALL BE PERFORMED OFF-SITE WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ADJACENT PROPERTY OWNER AND/OR JURISDICTION.
12. EXISTING GRADES SHALL BE MATCHED WITH THE LEGAL BOUNDARY UNLESS OTHER PROVISIONS HAVE BEEN MADE.
13. SOILS USED FOR STRUCTURAL FILL SHALL BE CLEAN AND FREE OF ORGANIC MATERIAL.
14. CONTRACTOR TO ADJUST AND/OR RECONSTRUCT TO GRADE ALL UTILITY STRUCTURES TO MEET PROPOSED GRADES.
15. SPOT ELEVATIONS SHOWN FOR CURB AND GUTTER ARE TOP OF CURB AND EDGE OF PAVEMENT. WHERE PROPOSED CURB MEETS EXISTING CURB CONTRACTOR SHALL MATCH EXISTING ELEVATIONS.
16. CONTRACTOR SHALL PROCURE AND CONFORM TO ALL CONSTRUCTION PERMITS REQUIRED.
17. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
18. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT.
19. ANY INSPECTION BY THE CITY, COUNTY OR OTHER AGENCIES SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS.
20. RECORD DRAWINGS. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON HE WILL RECORD ANY APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BE THE CITY UPON REQUEST.
21. THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM THE PROVIDED ALTA SURVEY. CONTRACTOR SHALL FIELD VERIFY SIZE'S LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
22. ALL EXISTING UTILITIES SHALL BE MAINTAINED IN PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR TO LEAVE EXISTING UTILITIES/FACILITIES IN AN EQUAL OR BETTER-THAN-ORIGINAL CONDITION.
23. CONTRACTOR TO REVIEW SOILS REPORT AND CONFIRM TO ALL RECOMMENDATIONS LISTED IN IT.
24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES TO ENSURE THAT PUBLIC STREETS AND RIGHT-OF-WAYS ARE KEPT CLEAN OF MUD, DUST OR DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BE ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.
25. IMMEDIATELY FOLLOWING FINE GRADING OPERATIONS, COMPACT SUB GRADE TO 95% OF THE MAXIMUM DRY DENSITY PER AASHTO-180 TEST METHOD (MODIFIED PROCTOR). SUB GRADE MUST BE INSPECTED AND APPROVED BY A SOIL ENGINEERING PRIOR TO PLACING EMBANKMENTS OR BASE ROCK.
26. UNLESS OTHERWISE SHOWN ON DRAWINGS, STRAIGHT GRADES SHALL BE RUN BETWEEN ALL FINISH GRADE ELEVATIONS AND/OR FINISH CONTOUR LINES SHOWN. FINISH PAVEMENT GRADES AT TRANSITION TO EXISTING PAVEMENT GRADES OR BE FEATHERED PAST JOINTS WITH EXISTING PAVEMENT AS REQUIRED TO PROVIDE A SMOOTH, FREE DRAINING SURFACE.
27. ALL EXISTING OR CONSTRUCTED MANHOLES, CLEANOUTS, MONUMENTS, GAS VALVES, WATER VALVES AND SIMILAR STRUCTURES SHALL BE ADJUSTED TO MATCH FINISH GRADE OF THE PAVEMENT, SIDEWALK, LANDSCAPED AREA OR MEDIAN STRIP WHEREIN THEY LIE.
28. ALL PLANTER AREAS SHALL BE BACKFILLED WITH APPROVED TOPSOIL MINIMUM 8" THICK. STRIPPING MATERIAL SHALL NOT BE USED FOR PLANTER BACKFILL.
29. CONTRACTOR SHALL HYDROUS ALL EXPOSED SLOPES AND DISTURBED AREAS WHICH ARE NOT SCHEDULED TO BE LANDSCAPED.
30. UNLESS OTHERWISE SHOWN OR INDICATED ON THE DRAWINGS, 6" NOMINAL CURB EXPOSURE USED FOR DESIGN OF ALL PARKING LOT AND STREET GRADES.
31. SIDEWALKS AND DRIVEWAYS SHALL BE CONSTRUCTED TO THE FULL THICKNESS SHOWN.
32. CONTRACTOR SHALL COORDINATE AND PAY ALL COSTS (IF ANY) ASSOCIATED WITH RECONNECTING TO EXISTING WATER, SANITARY SEWER AND STORM SEWER FACILITIES.
33. SANITARY AND STORM SEWER PIPES AND APPEARANCES SHALL BE TESTED FOR LEAKAGE. LEAKAGE TEST SHALL INCLUDE AN AIR TEST, ALL MANHOLES SHALL BE VACUUM TESTED FOLLOWING COMPLETION OF PAVING OR FINAL SURFACE.
34. PRIOR TO MANDREL TESTING AND/OR TV INSPECTION, FLUSH AND CLEAN ALL PIPES AND REMOVE ALL FOREIGN MATERIAL FROM MAINLINES AND MANHOLES.
35. CONTRACTOR SHALL CONDUCT DEFLECTION TEST (MANDREL TEST) OF ALL SANITARY AND STORM SYSTEM PIPES.
36. PRIOR TO FINAL GRADE AND PAVING, CONTRACTOR SHALL CONDUCT A COLOR TV ACCEPTANCE INSPECTION OF ALL SANITARY AND STORM SYSTEM PIPES. THE TV INSPECTION SHALL BE CONDUCTED BY AN APPROVED TECHNICAL SERVICES WHICH IS EQUIPPED TO MAKE AUDIO-VISUAL RECORDINGS OF THE TV INSPECTIONS ON DVD. THE DVD AND WRITTEN REPORT SHALL BE DELIVERED TO THE OWNER.

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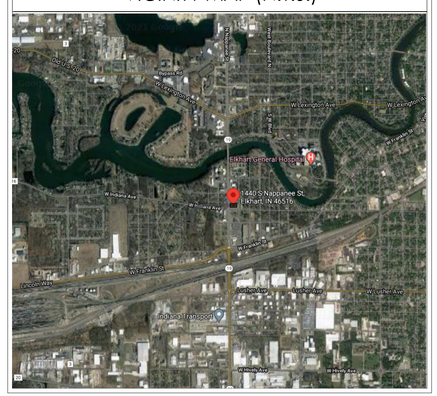
## VICINITY MAP (N.T.S.)




811
KNOW WHAT IS **BELOW**
**CALL** BEFORE
YOU DIG

## SITE AREA

| | |
|---|---|
| TOTAL SITE AREA: | 40,776 SF (0.94 ACRES) |
| BUILDING AREA: | 3,130 SF |
| NUMBER OF PARKING SPACES REQUIRED/PROVIDED: | 29 SPACES |
| NUMBER OF HANDICAP SPACES: | 2 (1 VAN ACCESSIBLE) |

| No. | Date | By | Notes |
|---|---|---|---|
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| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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AZIZ S. BOU-MARAR
REGISTERED
No. 910361
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
GRADING/UTILITY PLAN

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JOB #
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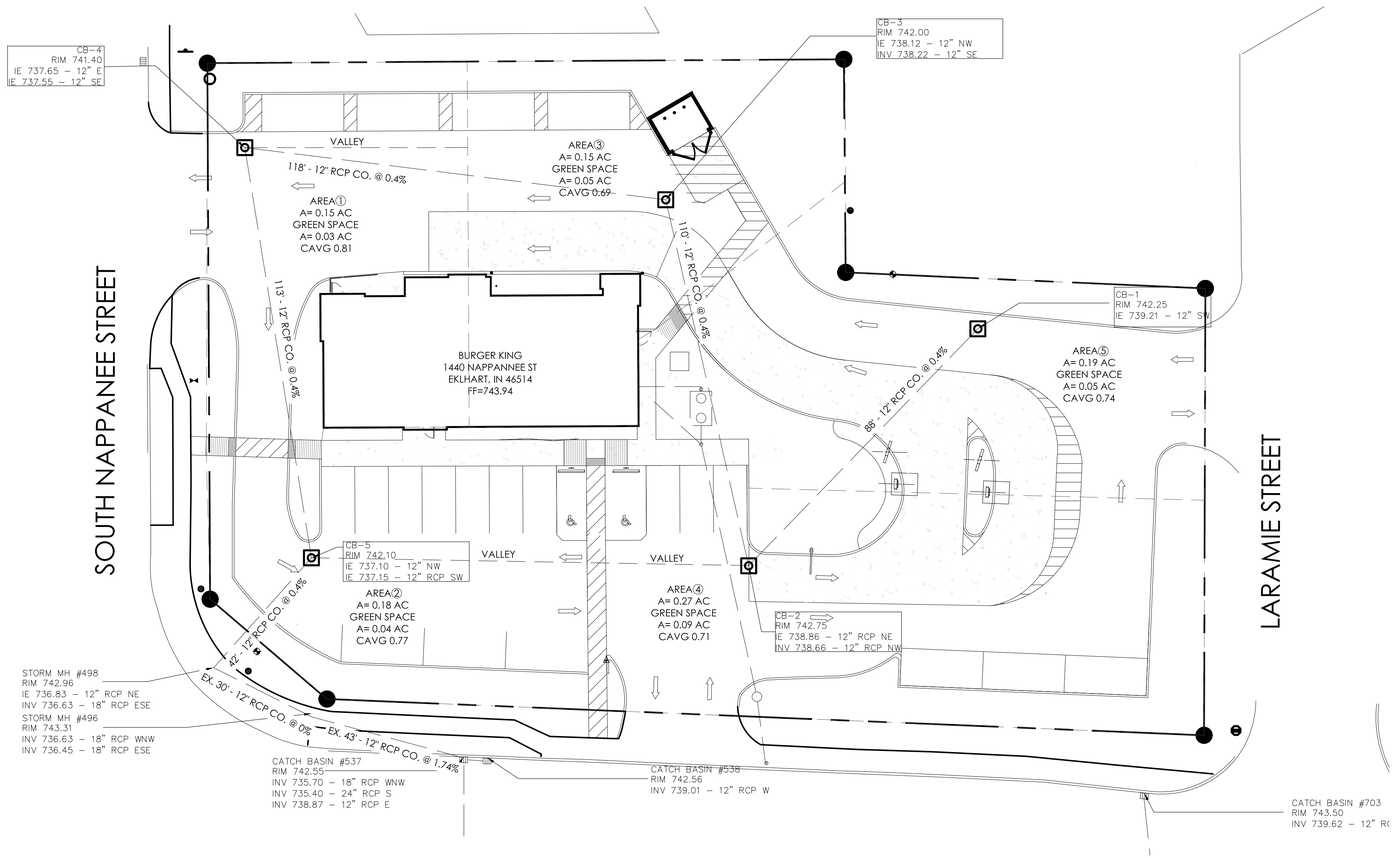
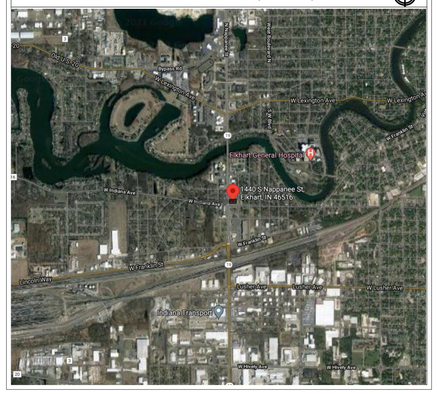
SHEET
C-5




1 DRAINAGE AREA MAP
SCALE: 1:20

N

## VICINITY MAP (N.T.S.)

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## RUNOFF COEFIECNT CALCULATION

| Area | Total Area | Impervious Area | Pervious Area | Average Runoff Coeffiecient |
|---|---|---|---|---|
| 1 | 0.16 | 0.13 | 0.03 | 0.81 |
| 2 | 0.18 | 0.14 | 0.04 | 0.77 |
| 3 | 0.15 | 0.10 | 0.05 | 0.69 |
| 4 | 0.27 | 0.18 | 0.09 | 0.71 |
| 5 | 0.19 | 0.14 | 0.05 | 0.74 |
| **Total Area** | **0.95** | **0.69** | **0.26** | |

## CATCH BASIN CALCULATION

| FROM M.H. | TO M.H. | Incr. AREA Acre | C (Avg) FACTOR | Equiv Area (CxA) | TOTAL Eq Area | TIME | Inten. in./hr. | FLOW-Q CFS | SUM of Flows | Pipe Size in. | n | SLOPE | LENGTH feet | CAPACITY CFS | VELOCITY FULL FLOW | TIME min. | Upstream HG | ELEV. Upper End | SEWER INVERT Upper End | SEWER INVERT Lower End |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CB1 | CB2 | 0.190 | 0.74 | 0.14 | 0.14 | 20.00 | 3.89 | 0.55 | 0.55 | 12 | 0.013 | 0.40% | 88 | 2.25 | 2.87 | 0.51 | 740.01 | 742.75 | 739.21 | 738.86 |
| CB2 | CB3 | 0.270 | 0.71 | 0.19 | 0.33 | 20.51 | 3.85 | 0.74 | 1.28 | 12 | 0.013 | 0.40% | 110 | 2.25 | 2.87 | 0.64 | 739.46 | 742.75 | 738.66 | 738.22 |
| CB3 | CB4 | 0.150 | 0.69 | 0.10 | 0.44 | 21.15 | 3.79 | 0.39 | 1.65 | 12 | 0.013 | 0.40% | 118 | 2.25 | 2.87 | 0.69 | 738.92 | 742.00 | 738.12 | 737.65 |
| CB4 | CB5 | 0.150 | 0.81 | 0.12 | 0.56 | 21.84 | 3.74 | 0.45 | 2.08 | 12 | 0.013 | 0.40% | 113 | 2.25 | 2.87 | 0.66 | 738.35 | 741.40 | 737.55 | 737.10 |
| CB5 | MH 478 | 0.180 | 0.77 | 0.14 | 0.70 | 22.49 | 3.68 | 0.51 | 2.58 | 12 | 0.013 | 0.40% | 42 | 2.25 | 2.87 | 0.24 | 738.57 | 742.10 | 737.10 | 736.83 |
| MH 498 | MH 496 | | | 0.14 | 0.70 | 22.74 | 3.67 | 0.51 | 2.55 | 18 | 0.013 | | 30 | | | | 738.59 | 742.96 | 736.63 | 736.63 |
| MH 496 | EXCB 537 | | | 0.14 | 0.70 | 22.74 | 3.67 | 0.51 | 0.51 | 18 | 0.013 | 1.74% | 43 | 13.85 | 7.84 | 0.09 | 738.59 | 743.31 | 736.45 | 735.70 |
| | | | | | | | | | | | | | | | Beginning H.G= | | 737.00 | | | |

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4

4

| No. | Date | By | Notes |
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STATE OF INDIANA
PROFESSIONAL ENGINEER

10.06.2022

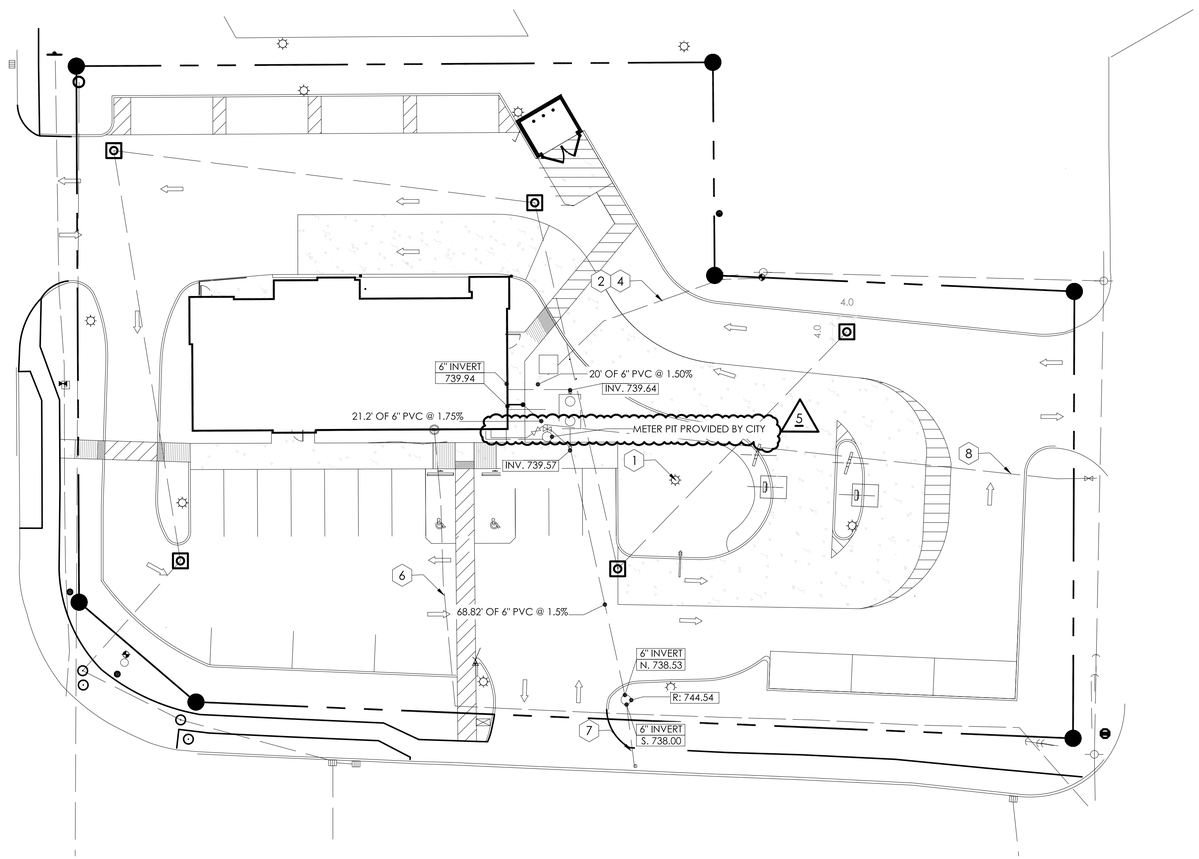
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
DRAINAGE AREA MAP

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

SHEET
C-5.1




1 UTILITY MAP
SCALE: 1:20

GENERAL NOTES

A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL ITEMS AND PERFORM ALL WORK NOT COVERED BY UTILITY COMPANIES. CONTRACTOR SHALL VERIFY ORIGIN OF SERVICE, INSTALLATION PROCEDURES, AND ALL STANDARDS FOR WORK WITH UTILITY COMPANIES PRIOR TO CONSTRUCTION. ON SITE TRENCHING SHALL BE MINIMIZED WHEN POSSIBLE. UTILITIES, CONDUITS, AND IRRIGATION SHALL MAKE USE OF SHARED TRENCHING WHEN PERMITTED. FOR TRENCHING INFORMATION, SEE DETAIL.

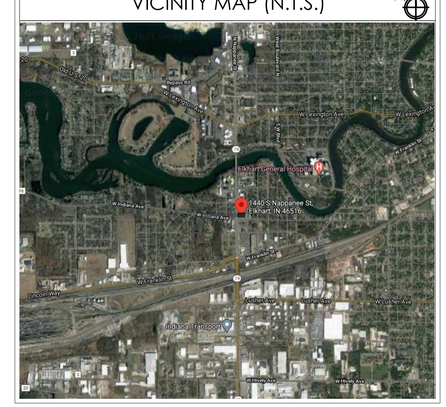
B. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY SIZES, TYPES, AND LOCATIONS SHOWN ON PLANS. ALL UTILITY WORK SHALL BE IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCY FOUND BETWEEN THE FIELD CONDITIONS, THESE PLANS, AND/OR GOVERNING REGULATIONS.

C. ALL PIPE LENGTHS ARE APPROXIMATE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.

D. PROVIDE CLEANOUTS, AS INDICATED BY "CO" OR "DCO", ON ALL SANITARY SEWER LATERALS.

E. EXISTING SANITARY MAIN LOCATED BY GIS DATA. CONTRACTOR SHALL FIELD LOCATE AND VERIFY DEPTHS PRIOR TO CONSTRUCTION.

VICINITY MAP (N.T.S.)




811
KNOW WHAT IS **BELOW**
**CALL** BEFORE
YOU DIG

SITE AREA

| | |
|---|---|
| TOTAL SITE AREA: | 40,776 SF (0.94 ACRES) |
| BUILDING AREA: | 3,130 SF |
| NUMBER OF PARKING SPACES REQUIRED/PROVIDED: | 29 SPACES |
| NUMBER OF HANDICAP SPACES: | 2 (1 VAN ACCESSIBLE) |

STANDARD SPECIFICATIONS

GENERAL CONTRACTOR TO REFERENCE STANDARD SPECIFICATIONS OF THE CITY OF ELKHART WHICH CAN BE FOUND IN DIVISION C OF THE PROVIDED LINK.

https://elkhartindiana.org/wpfd_file/standard-specifications-for-construction-2019/

KEYED NOTES ⟨X⟩

1. SITE LIGHT. SEE SITE LIGHTING ELECTRICAL PLAN AND PHOTOMETRIC PLAN
2. PROPOSED UNDERGROUND ELECTRIC SERVICE. CONTRACTOR TO INSTALL SERVICE PER ALL STATE AND LOCAL CODES, POWER COMPANY, N.F.P.A., AND N.E.C. STANDARDS AND COORDINATE WITH THE POWER COMPANY TO VERIFY THE TRANSFORMER LOCATION, SIZE, ORIGIN OF SERVICE, AND ALL STANDARDS FOR WORK. MINIMUM CONDUIT COVER SHALL BE 3 FT. SEE ARCHITECTURAL SHEETS FOR SECONDARY WIRING DESIGN. DIVISION OF WORK SHALL BE AS FOLLOWS: UTILITY COMPANY IS RESPONSIBLE FOR INSTALLING TRANSFORMER, FINAL CONNECTION, SOCKET AND METER. GENERAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING SECONDARY CONDUCTORS AND CONDUIT, CT CABINET, TRANSFORMER PAD (IF REQUIRED) AND TRENCHING AND BACKFILL.
3. PROPOSED UNDERGROUND TELEPHONE SERVICE. VERIFY EXACT ROUTING AND TERMINATION REQUIREMENTS WITH TELEPHONE COMPANY BEFORE STARTING WORK. CONTRACTOR TO COORDINATE WITH OTHER UTILITIES AND UTILIZE SHARED TRENCHING IF PERMITTED. MINIMUM CONDUIT COVER SHALL BE 3 FT. GENERAL CONTRACTOR TO COORDINATE WITH UTILITY COMPANY ON POINT OF CONNECTION. DIVISION OF WORK SHALL BE AS FOLLOWS: UTILITY COMPANY IS RESPONSIBLE FOR PROVIDING AND INSTALLING CABLE, AND FINAL CONNECTION. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING CONDUIT (WITH PULL WIRE), AND TRENCHING AND BACKFILL.
4. PROPOSED OVERHEAD ELECTRIC SERVICE FROM EXISTING SERVICE POLE TO EXISTING UTILITY POLE. CONTRACTOR TO INSTALL SERVICE PER ALL STATE AND LOCAL CODES, POWER COMPANY, N.F.P.A., AND N.E.C. STANDARDS AND COORDINATE WITH THE POWER COMPANY TO VERIFY THE TRANSFORMER LOCATION, SIZE, ORIGIN OF SERVICE, AND ALL STANDARDS FOR WORK.
5. PROPOSED OVERHEAD TELEPHONE SERVICE FROM EXISTING SERVICE POLE TO EXISTING UTILITY POLE. VERIFY EXACT ROUTING AND TERMINATION REQUIREMENTS WITH TELEPHONE COMPANY BEFORE STARTING WORK. CONTRACTOR TO COORDINATE WITH OTHER UTILITIES AND UTILIZE SHARED TRENCHING IF PERMITTED. GENERAL CONTRACTOR TO COORDINATE WITH UTILITY COMPANY ON POINT OF CONNECTION.
6. PROPOSED NATURAL GAS SERVICE. ALL MATERIALS AND INSTALLATION ARE TO BE IN ACCORDANCE WITH ALL STATE AND LOCAL CODES AND N.F.P.A. STANDARDS. DIVISION OF WORK SHALL BE AS FOLLOWS:UTILITY COMPANY IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE TAP AND METER. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE REGULATOR, PIPING, COPPER LOCATOR WIRE, DITCH TAPE, AND TRENCHING AND BACKFILL.
7. 6" SANITARY SEWER LATERAL. SEE NOTE E. PIPE SHALL BE P.V.C. ASTM D-3034 SDR 35. JOINTS SHALL CONFORM TO ASTM D-3212. PROVIDE CLEANOUTS AS INDICATED BY "CO" OR "DCO" PER DETAIL. COORDINATE LOCATION OF SANITARY SEWER LATERAL THROUGH FOUNDATION WITH STRUCTURAL DRAWINGS. MAINTAIN A MINIMUM OF 10' HORIZONTAL AND 18" VERTICAL SEPARATION FROM WATER.
8. DOMESTIC WATER SERVICE. THE WATER LINE, VALVES, AND FITTINGS SHALL BE INSTALLED PER UTILITY PROVIDER REQUIREMENTS INCLUDING THE WATER METER AND BACKFLOW DEVICE. CONTRACTOR TO VERIFY REQUIREMENTS OF LOCAL CODES, UTILITY COMPANIES AND GOVERNING OFFICIALS. PIPING SHALL BE TYPE 'K' COPPER. INCLUDE IN BASE BID ALL VALVES, PIPING STRUCTURES, ETC. THAT WILL BE REQUIRED. MINIMUM DEPTH OF WATER LINE SHALL BE 4'. DIVISION OF WORK SHALL BE AS FOLLOWS: GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING VALVES, PIPING, FITTINGS, METER IN BUILDING, AND BACKFLOW PREVENTER INSIDE BUILDING.
9. PROPOSED MINIMUM 1,575 GALLONS GREASE TRAP
10. EXISTING UTILITY POLE. UTILITY CONTRACTOR TO INSTALL TRANSFORMER AS NECESSARY.

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 04.29.2022 | AJG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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FARMINGTON HILLS, MI 48331
P: (248) 426-9000 F: (248) 426-7004

AZIZ S. BOU-MARON REGISTERED No. 910381 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

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BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
UTILITY PLAN

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JOB #
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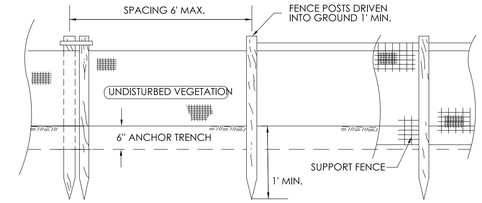
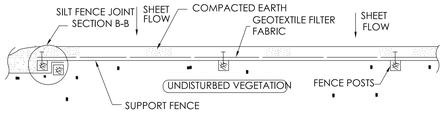
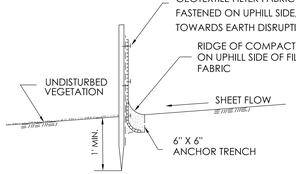
SHEET
C-5.2



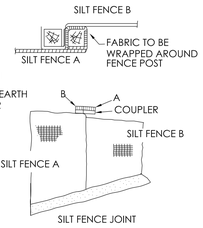

FRONT VIEW




PLAN VIEW

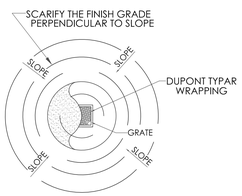



SECTION A-A

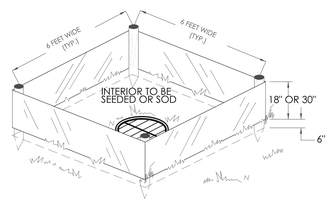



SECTION B-B

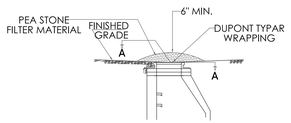
SILT FENCE DETAIL
NOT TO SCALE



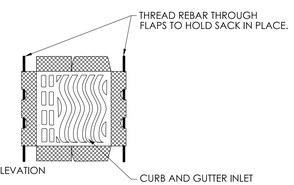

SECTION A - A

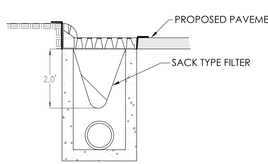



DRAIN GUARD DETAIL
NOT TO SCALE

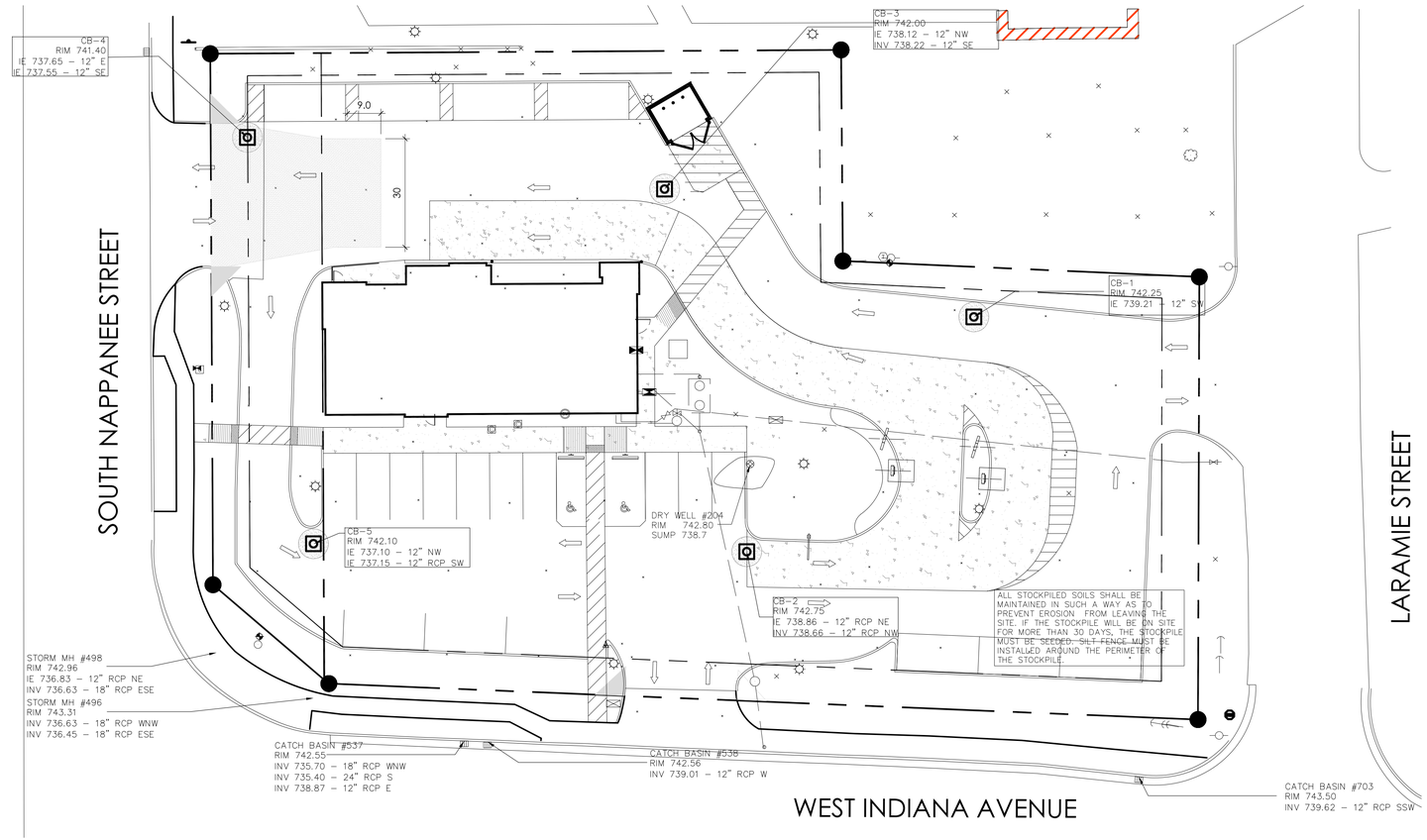



LOW POINT FILTER DETAIL
NOT TO SCALE




SILT SACK DETAIL
NOT TO SCALE
(USE IN R.O.W. & PAVEMENT AREAS)




1 SOIL EROSION SITE PLAN
SCALE: 1:20

N

## STANDARD SPECIFICATIONS

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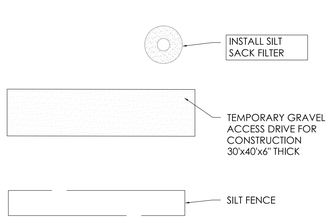
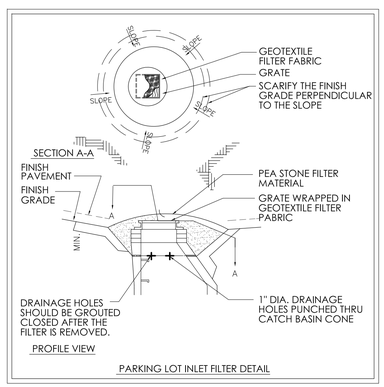
4

LEGEND




PARKING LOT INLET FILTER DETAIL

### SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE:

1. PLACE A SILT FENCE ALONG BOUNDARY LINES AS SHOWN ON PLAN & INSTALL TEMPORARY ACCESS DRIVE.
2. INSTALL UNDERGROUND UTILITIES & INSTALL INLET FILTERS
3. CONTRACTOR SHALL SHAPE AND PREPARE SUB GRADE TO ELEVATIONS AND CROSS SECTIONS SHOWN ON PLANS. BEGIN BUILDING CONSTRUCTION.
4. MAINTAIN EROSION AND SEDIMENTATION CONTROL MEASURES.
5. BRING PAVEMENT AREAS TO SUBGRADE BASE. REMOVE PARKING LOT FILTER AND PLACE PERMANENT COVERS AFTER PAVEMENT.
6. FINISH GRADING, REDISTRIBUTE TOP SOIL.
7. COMPLETE CONSTRUCTION OF BUILDING.
8. AFTER PAVING CONSTRUCTION, ALL DISTURBED AREAS SHALL BE TOP DRESSED WITH 3" TOP SOIL. AREAS BETWEEN EDGE OF PAVEMENT AND R.O.W. LINE TO BE SODDED, SEEDED AND MULCHED OR HYDRO SEEDED 15 DAYS AFTER PAVEMENT HAS BEEN INSTALLED. (WEATHER CONDITIONS PERMITTING).

### SOIL EROSION AND SEDIMENTATION CONTROL:

1. ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO CURRENT STANDARDS AND SPECIFICATIONS OF ELKHART, INDIANA
2. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT ANY DELAY.
3. EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN-MADE DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
4. EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED, PRIOR TO, OR AS THE FIRST STEP IN, CONSTRUCTION. SEDIMENT CONTROL PRACTICES SHALL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTATION OF SILT OFF THE SITE.
5. CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION AS REQUIRED AND AS DIRECTED IN THESE PLANS. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAS BEEN ACCOMPLISHED.
6. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING, OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED & MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.

   ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
7. ALL MUD/DIRT TRACKED ONTO EXISTING CITY/ COUNTY/STATE ROADS FROM THIS SITE, DUE TO CONSTRUCTION, SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER. ALL MUD/DIRT TRACKED OR SPILLED ON PAVED ROADS/SURFACES WITHIN THE SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR/BUILDER.
8. PLACE GEOTEXTILE FILTER CLOTH ON ALL CATCH BASINS DURING CONSTRUCTION.
9. ALL ONSITE AND OFFSITE AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER THAN ORIGINAL EXISTING CONDITIONS. ALL RESTORATION SHALL CONSIST OF A MIN. OF 4"TOPSOIL W/SEED AND MULCH OR 3"OF TOPSOIL AND CLASS "A" SOD WHERE EXISTING CONDITION REQUIRE SOD REPLACEMENT.

SOIL EROSION
CONTACT PERSON
TECHNICAL GROUP
ATTENTION: SHAHEEN
248-426-8000

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 04.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
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AZIZ S. BOU-MARON
REGISTERED
No. 910361
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
SOIL EROSION PLAN

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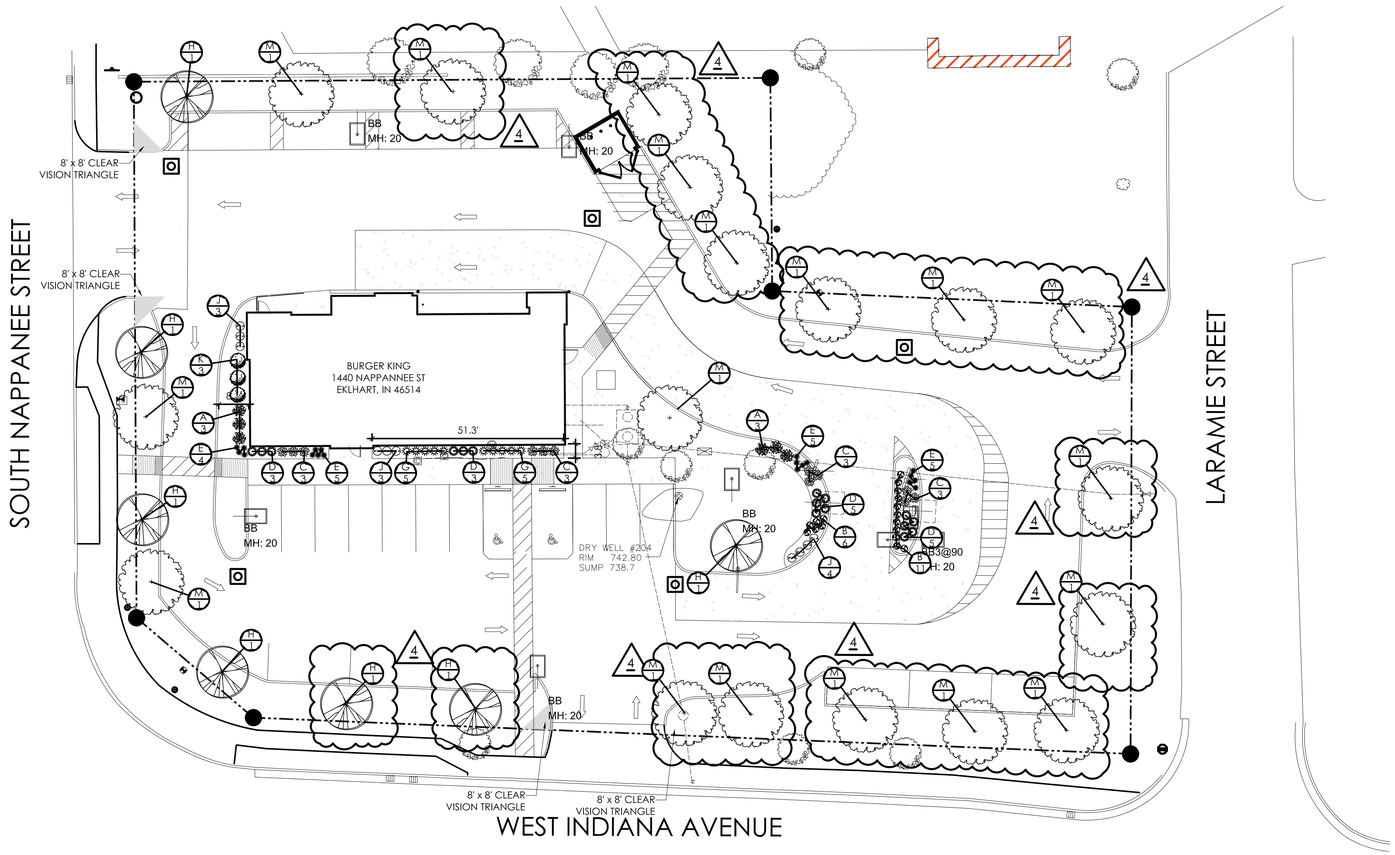
JOB # TG-21668

SHEET C-6




1 PROPOSED LANDSCAPE PLAN
SCALE: 1:20

N

## LANDSCAPE NOTES:

PLANTING:

* INSTALLATION OF ALL PLANT MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN ASSOCIATION OF NURSERYMEN LANDSCAPE STANDARDS AND WITH THE SPECIFICATIONS SET FORTH BY THE CITY OF ELKHART, IN.
* IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER TO MAINTAIN THE LANDSCAPING INSTALLED SO THAT IT IS HEALTHY, NEAT AND ORDERLY IN APPEARANCE AND IS FREE FROM REFUSE AND DEBRIS.
* ALL PLANTINGS SHALL BE COMPLETED WITHIN THREE (3) MONTHS, AND NO LATER THAN NOVEMBER 30, FROM THE DATE OF ISSUANCE OF A CERTIFICATE OF OCCUPANCY IF SUCH CERTIFICATE IS ISSUED DURING THE APRIL 1 - SEPTEMBER 30 PERIOD; IF THE CERTIFICATE IS ISSUED DURING THE OCTOBER 1 - MARCH 31 PERIOD; PLANTING SHALL BE COMPLETED NO LATER THAN THE ENSUING MAY 31; PLANTINGS SHALL THEREAFTER BE REASONABLY MAINTAINED,INCLUDING PERMANENCE AND HEALTH OF PLANT MATERIALS TO PROVIDE A SCREEN TO ABUTTING PROPERTIES AND INCLUDING THE ABSENCE OF WEEDS AND REFUSE.
* ALL PLANTING BEDS TO BE FILLED WITH FOUR INCHES (3") OF RIVER ROCK. PLANTING BEDS TO HAVE ONE-EIGHTH BY FOUR INCH (1/8"X4") BLACK ANODIZED PERMA-LOC ALUMINUM EDGING, OR APPROVED EQUIVALENT, ON BORDERS.
* DIG SHRUB PITS ONE FOOT (1') LARGER THAN THE SHRUB ROOTBALL, TREE PITS TWO FOOT(2') THAN TREE ROOTBALLS AND BACKFILL WITH ONE (1) PART TOP SOIL AND ONE(1) PART SOIL FROM EXCAVATED PIT.
* REMOVE TWINE AND WIRE FROM ROOTBALL AND PLANT TOPS.
* ORGANIC FRIABLE TOPSOIL SHALL BE EVENLY DISTRIBUTED AND FINE GRADED OVER ALL AREAS TO RECEIVE LAWNS AT UNIFORM DEPTH OF FOUR INCHES AFTER SETTLEMENT.
* ALL NEW LAWN AREAS SHALL BE SODDED WITH A GRADE A SOD PLANTED OVER THE TOPSOIL.
* TREES IN LAWN AREAS TO HAVE A THREE FOOT (3') CIRCLE OF MULCH 2"-3" DEEP; NOT MORE THAN 3". (HARDWOOD - NATURAL DARK BROWN).
* TOPSOIL SHALL BE FERTILE, FRIABLE, AND REPRESENTATIVE OF PRODUCTIVE SOIL, CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH AND SHALL BE DARK ORGANIC NATURAL SURFACE SOIL, EXCLUSIVE OF PEAT, MUCK, AND/OR DARK BROWN OR BLACK LOAM, CLAY LOAM, SILT LOAM, OR SANDY LOAM.
* REQUIRED LANDSCAPE MATERIAL SHALL SATISFY AMERICAN ASSOCIATION OF NURSERYMAN STANDARDS AND BE:

MATERIALS:

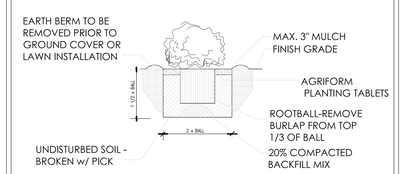
* PLANT MATERIAL SIZES (MINIMUM)

- EVERGREEN TREES..... 6' MIN. HEIGHT
- DECIDUOUS TREES..... 2 1/2" CALIPER
- SMALL DECIDUOUS TREES..... 2 1/2" CALIPER
- LARGE EVERGEEN SHRUBS ..... 2' - 3' HEIGHT
- DECIDUOUS SHRUBS..... 2' -3' SPREAD
- EVERGREEN SHRUBS..... 18" - 24" SPREAD
- GROUNDCOVER..... 18" - 24" SPREAD

GENERAL:

1. ALL LANDSCAPED AREAS SHALL BE EXCAVATED OF ALL BUILDING MATERIAL AND DEBRIS TO A MINIMUM DEPTH OF EIGHTEEN INCHES (18") AND BACKFILLED WITH A MEDIUM TEXTURED PLANTING SOIL. ALL LANDSCAPED AREAS ARE TO HAVE MINIMUM SIX INCHES (6") OF TOPSOIL AND ARE TO BE CROWNED A MINIMUM SIX INCHES (6") HIGHER THAN ADJACENT CURBS AND SIDEWALKS.
2. ALL WRITTEN DIMENSIONS OVERRIDE SCALE DIMENSIONS ON PLAN.
3. REPORT ALL CHANGES, SUBSTITUTIONS, OR DELETIONS TO THE ARCHITECT.
4. ALL BIDDERS MUST INSPECT THE SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.
5. ALL SPECIFICATIONS SUBJECT TO CHANGE DUE TO EXISTING SITE CONDITIONS.
6. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO APPROVE ALL PLANT MATERIAL.
7. DO NOT PLANT DECIDUOUS OR EVERGREEN TREES DIRECTLY OVER UTILITY LINES. MAINTAIN A FIVE FOOT (5') DISTANCE FROM CENTER OF UTILITIES FOR PLANTING HOLES. CALL 411 OR OUPS FORTY-EIGHT (48) HOURS PRIOR TO LANDSCAPE CONSTRUCTION FOR FIELD LOCATION OF UTILITY LINES.
8. MEASUREMENT AND QUANTITIES ARE ESTIMATES ONLY AND CONTRACTOR IS RESPONSIBLE FOR HIS/HER OWN QUANTITIES. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR 100% OF SOD REQUIRED INCLUDING AREAS IN R.O.W.
9. IRRIGATION IS REQUIRED ON 75%-100% OF THE PROPERTY WITH EMPHASIS ON AREAS ALONG PRIMARY AND SECONDARY ROADWAYS AND 100% OF ALL LANDSCAPE AREAS ADJACENT TO THE STRUCTURE. IN COMPLIANCE WITH SECTION 1136.09 (a)(2).
10. G.C. TO PROVIDE IRRIGATION. IRRIGATION TO BE DESIGNED BY OTHER. RAIN SENSOR & TIMER AS PART OF SPRINKLER SYSTEM DESIGN.
11. ALL SERVICE STRUCTURES TO BE SCREENED PER CHAPTER 1136.08.

## SHRUB PLANTING

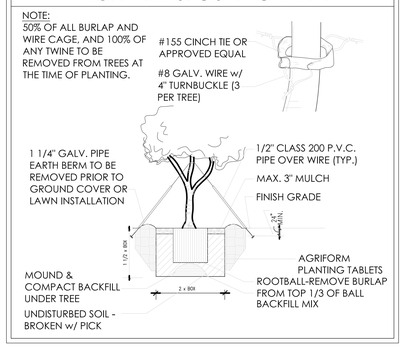



## INTERIOR LANDSCAPE CALCULATION

| | |
|---|---|
| TOTAL SITE SF: | 40,776 |
| INTERIOR LANDSCAPE SF: | 2,000 |
| CALCULATION: | 2,000 / 40,776 = .05 |
| **TOTAL INTERIOR LANDSCAPE COVERAGE REQUIRED:** | **5%** |
| **TOTAL INTERIOR LANDSCAPE COVERAGE PROVIDED:** | **5%** |

## BOX TREE & GUYING DETAIL

NOTE:
50% OF ALL BURLAP AND WIRE CAGE, AND 100% OF ANY TWINE TO BE REMOVED FROM TREES AT THE TIME OF PLANTING.




## PLANT LISTING

| KEY | QTY | BOTANICAL NAME | COMMON NAME | PLANTING HEIGHT | MATURE SIZE HEIGHT | MATURE SIZE SPREAD | TYPE |
|---|---|---|---|---|---|---|---|
| A | 6 | HYDRANGEA ARBORESCENS | ANNABELLE HYDRANGEA | 24" (MIN.) | 3'-5' | 3'-5' | POT |
| B | 17 | CALAMAGROSTIS 'KARL FOERSTER' | KARL'S FOERSTERS | 24" (MIN.) | 4'-5' | 12"-24" | GAL |
| C | 12 | HOSTAS SPECIES | HOSTA | 24" (MIN.) | 2'-3' | 2'-3' | POT |
| D | 16 | CARYOPTERIS X CLANDONENSIS 'BLUE' | BLUE MIST SPIREA | 12" (MIN.) | 16'-24" | 24"-30" | POT |
| E | 19 | HEMEROCALLIS 'LITTLE GRAPETTE' | 'LITTLE GRAPETTE' DAYLILY | 8" (MIN.) | 8'-12" | 10"-16" | GAL |
| F | 0 | TAXUS X MEDIE 'HICKSII | HICKS YEW | 36" (MIN.) | 2'-3' | 3'-6' | POT |
| G | 10 | PENNISETUM ALOPECUROIDES 'LITTLE BUNNY' | LITTLE BUNNY FOUNTAIN GRASS | 36" (MIN.) | 8'-10' | 24"-30" | GAL |
| H | 7 | SYRINGA RETICULATA | JAPANESE LILAC TREE | 10' (MIN.) | 20'-30' | 15'-20' | POT |
| J | 10 | LAVANDULA ANGUSTIFOLIA 'HIDCOTE' | ENGLISH LAVENDER | 16" (MIN.) | 16"-24" | 24"-30" | POT |
| K | 3 | BERVERUS THUNBERGII 'ATROPURPUREA NANA' | BARBERRY 'CRIMSON PYGMY' | 24" (MIN.) | 3'-4' | 3'-5' | POT |
| L | 0 | THUJA OCCIDENTALIS | ARBORVITAE - PYRAMIDALIS | 6' (MIN.) | 8'-10' | 3'-6' | POT |
| M | 18 | QUERCUS RUBRA | RED OAK TREE | 10' (MIN.) | 40'-60' | 30'-50' | POT |

## STANDARD SPECIFICATIONS

GENERAL CONTRACTOR TO REFERENCE STANDARD SPECIFICATIONS OF THE CITY OF ELKHART WHICH CAN BE FOUND IN DIVISION C OF THE PROVIDED LINK.

https://elkhartindiana.org/wpfd_file/standard-specifications-for-construction-2019/

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 04.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

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AZIZ S. BOU-MARO REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
PROPOSED LANDSCAPE PLAN

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

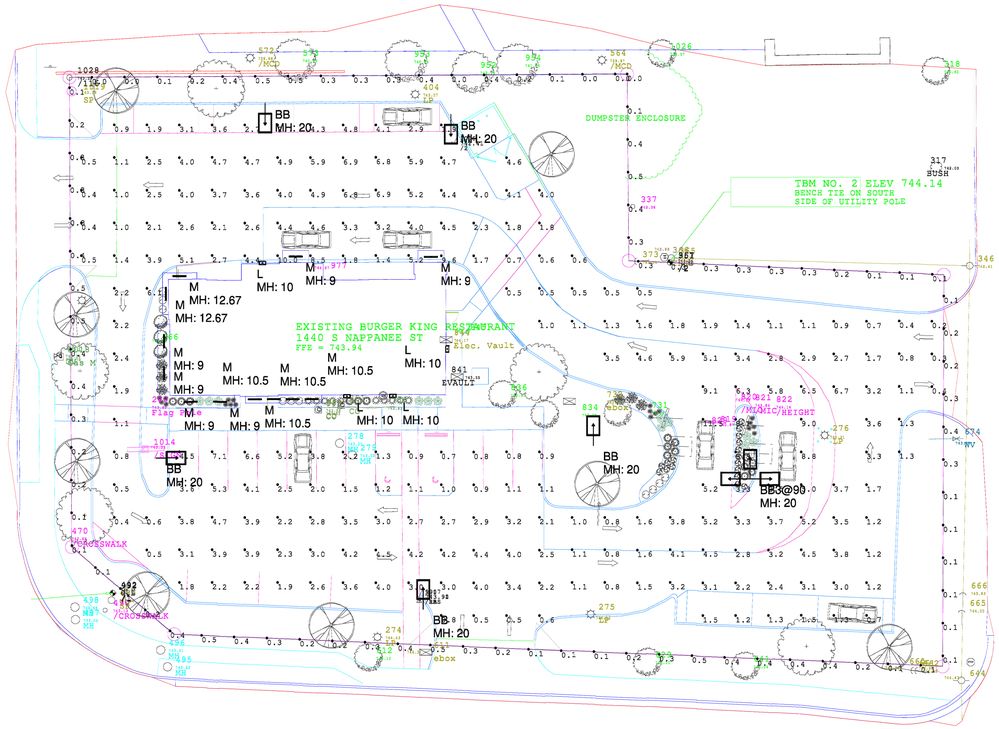
SHEET LS-1

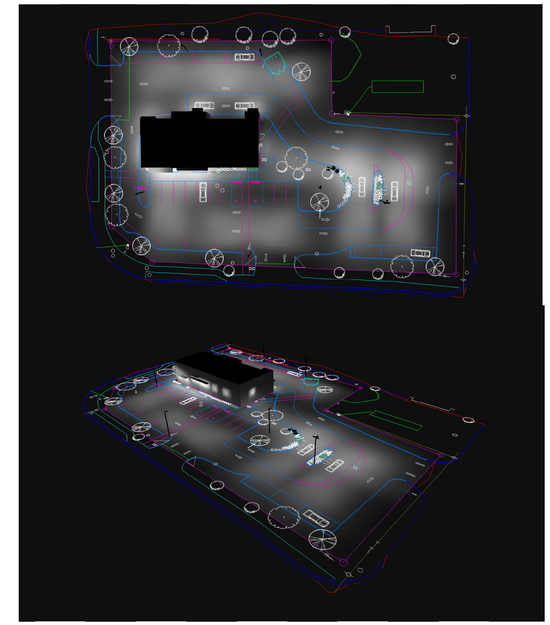
NOTES:

1. THE FOOTCANDLE LEVELS AS SHOWN ARE BASED ON THE FOLLOWING CRITERIA. ANY SUBSTITUTIONS IN SPECIFIED FIXTURES OR CHANGES TO LAYOUT WILL AFFECT LIGHTING LEVELS SHOWN AND WILL NOT BE THE RESPONSIBILITY OF SECURITY LIGHTING.

2. DISTANCE BETWEEN READINGS 10

DRWG. NO. EX50084-Rev2.AGI



Pole Fixtures Are Full Cutoff
Tilt=0
Calculation Grids Are At Grade
Pole Light Mounting Height=20ft (18' Pole + 2' Base)

| Calculation Summary | | | | | | | |
|---|---|---|---|---|---|---|---|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| PAVED SURFACE READINGS | Illuminance | Fc | 2.99 | 11.5 | 0.2 | 14.95 | 57.50 |
| PROPERTY LINE READINGS | Illuminance | Fc | 0.25 | 0.5 | 0.0 | N.A. | N.A. |

| Luminaire Schedule | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Symbol | Qty | Label | Arrangement | LLF | Description | Lum. Watts | EPA | Mtg Height | Pole Type |
| | 5 | BB | SINGLE | 0.900 | RAR-2-320L-165-5K7-4-BC | 154.2 | 0.617 | 20 | SES-18-40-1-TA-xx-xx (4") |
| | 4 | L | SINGLE | 0.900 | RWSC-36L-5K-DO-U-PS | 14.4 | N/A | 10 | N/A |
| | 12 | M | SINGLE | 0.698 | VO-RP-40DW277-4 | 28 | N/A | VARIES | N/A |
| | 1 | BB3@90 | 3 @ 90° | 0.900 | RAR-2-320L-165-5K7-4-BC | 154.2 | 1.486 | 20 | SES-18-40-1-TA-xx-xx (4") |

1. THIS LIGHTING DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS TO SECURITY LIGHTING SYSTEMS. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AID. FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIER RESPONSIBLE FOR THE PROJECT.

2. LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.

3. CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.

4. THIS LAYOUT MAY NOT MEET TITLE 24 OR LOCAL ENERGY REQUIREMENTS. IF THIS LAYOUT NEEDS TO BE COMPLIANT WITH TITLE 24 OR OTHER ENERGY REQUIREMENTS, PLEASE CONSULT FACTORY WITH SPECIFIC DETAILS REGARDING PROJECT REQUIREMENTS SO THAT REVISIONS MAY BE MADE TO THE DRAWING.

SECURITY LIGHTING INC
2150 Golf Road, Suite 440, Rolling Meadows, IL 60008
1-800-544-4848

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES

SCALE 1" = 20' 0" DATE 7/1/2022

DRAWN BY VH

POINT-BY-POINT FOOTCANDLE PLOT FOR:
BURGER KING
1440 S NAPPANEE ST
ELKHART, IN

DRAWING NUMBER
EX50084-Rev2.AGI

STANDARD SPECIFICATIONS

GENERAL CONTRACTOR TO REFERENCE STANDARD SPECIFICATIONS OF THE CITY OF ELKHART WHICH CAN BE FOUND IN DIVISION C OF THE PROVIDED LINK.

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AZIZ S. BOU-MARON REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
SITE LIGHTING

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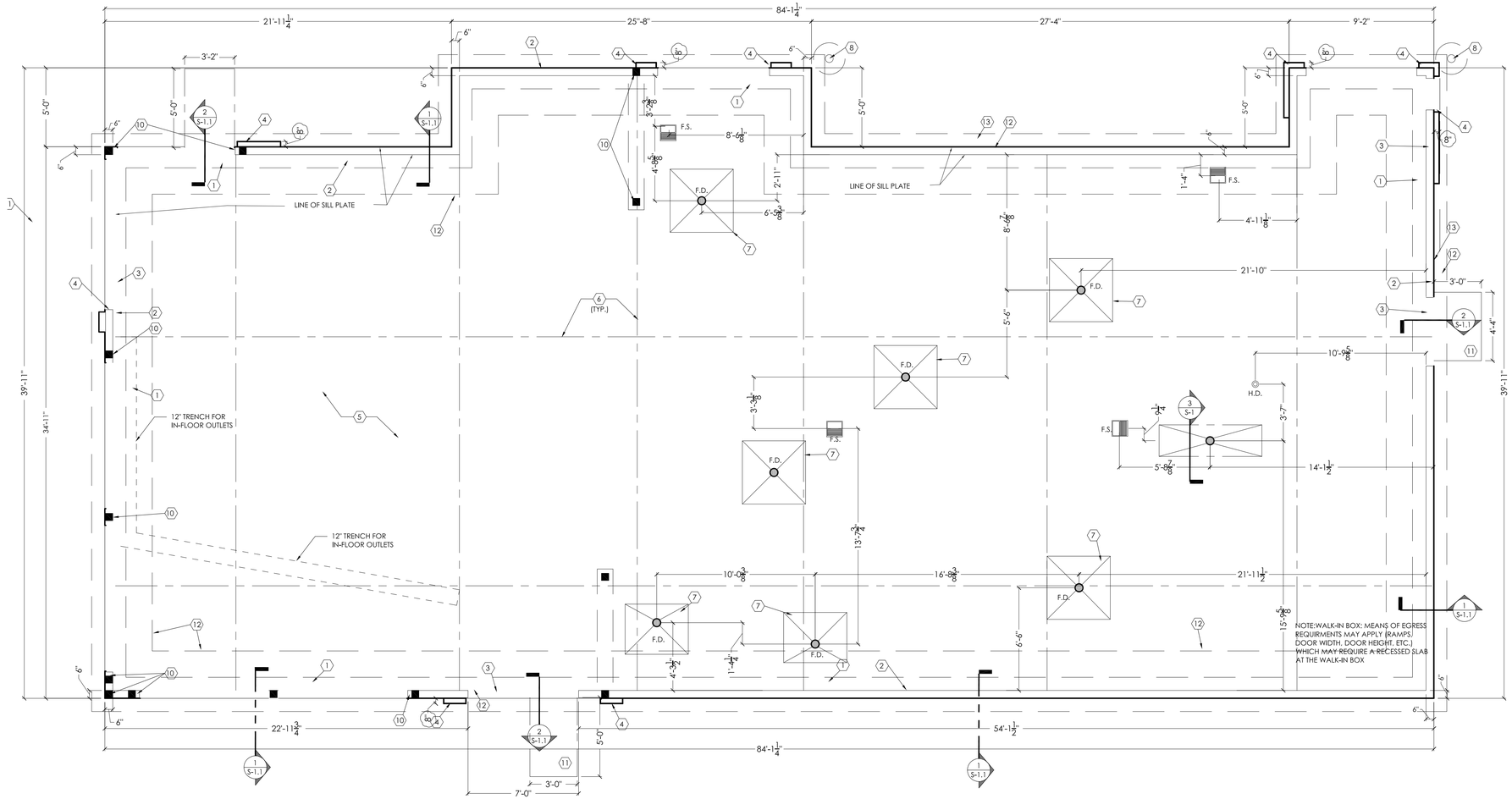
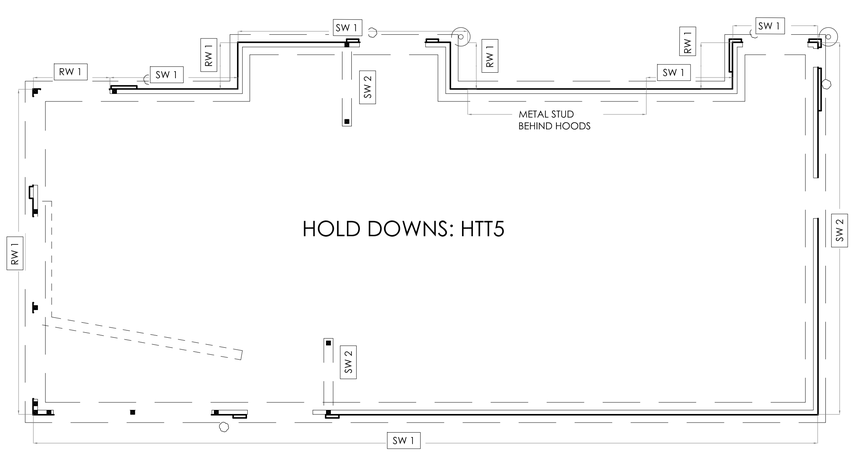
JOB #
TG-21668

SHEET
SL-1




## 1 FOUNDATION PLAN

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




## 2 SHEAR WALL PLAN

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

SW 1 — 2x6 @ 16" O.C. WOOD STUD
W/ 1/2 " PLYWOOD SHEATHING (ALL PANEL EDGES BLOCKED)
W/ 8d NAILS @ 6" O.C. AT PANEL EDGES AND 12" O.C. ON THE FIELD.
PROVIDE 6x6 POST OR PACKED STUDS AT EACH END OF SHEAR WALL AND AT CENTER FOR HOLDDOWN ATTACHMENT (USE SIMPSON HTT5)

SW 2 — 2x6 @ 16" O.C. WOOD STUD
W/ 1/2" PLYWOOD SHEATHING (ALL PANEL EDGES BLOCKED)
W/ 8d NAILS @ 4" O.C. AT EDGES AND 12" O.C. ON THE FIELD
PROVIDE 6x6 POST OR PACKED STUDS AT EACH END OF SHEAR WALL AND AT CENTER FOR HOLDDOWN ATTACHMENT (USE SIMPSON HTT5)

RW 1 — 2x6 @ 16" O.C. WOOD STUD
W/ 1/2" PLYWOOD SHEATHING (ALL PANEL EDGES BLOCKED)
W/ 8d NAILS @ 8" O.C. AT PANEL EDGES AND 6" O.C. AT INTERMEDIATE SUPPLIER
PROVIDE 6x6 POST OR PACKED STUDS AT EACH END OF SHEAR WALL AND AT CENTER FOR HOLDDOWN ATTACHMENT (USE SIMPSON HTT5)

## KEYED NOTES:

1. 18" WIDE x 42" MIN DEEP CONTINUOUS CONCRETE FOOTING WITH (3) #5 BARS CONTINUOUS TOP & BOTTOM
2. LINE OF SILL PLATE
3. EXTEND SLAB THRU AT OPENINGS (DETAIL 2/S-1.1)
4. PROVIDE 16" DEEP (4" A.F.F.) FOR FURR-OUT ELEMENTS AT TOWERS. CURB WIDTH TO BE DETERMINED BY FINISH FURR-OUT WIDTH. REFER TO SHEET A-1 FOR REQUIRED WIDTH AND DETAIL 1A/S-1.1.
5. 4" MIN. CONCRETE SLAB WITH 6x6-W1.4xW1.4 W.W.F. (MIN REINF'G) AT MID DEPTH OVER 6 MIL VAPOR BARRIER OVER 4" GRANULAR FILL.
6. CONTROL/CONSTRUCTION JOINTS - REFERENCE 4/S-1.1.
7. 4'x4' AREA SLOPED TO DRAIN @ 2% (TYP.)
8. 6"Øx 8'-0" STEEL BOLLARD, FILL WITH CONCRETE, TOP OF BOLLARD AT 5'-0" ABOVE SURFACE OF PAVING WITH 24"Ø x 3'-0" DEEP CONCRETE FOOTING (DETAIL S-1.1)
9. SHEAR WALL FOOTING - 12" x 2'-0" DEEP CONCRETE PAD W/ #4 BARS @ 12" O.C. BOTH DIRECTION, TOP & BOTTOM
10. 6X6 WOOD COLUMN OR (3)-2X6 BUILT-UP COLUMN
11. FROST BLOCK (SEE DETAIL ON S-1.1)
12. 2" HORIZONTAL INSULATION AROUND PERIMETER OF BUILDING

## GENERAL NOTES:

A. FOUNDATION PLAN WAS BASED ON AN ALLOWABLE BEARING CAPACITY OF 2500 PSF. SEE GEOTECHNICAL ENGINEERING REPORT BY TERRACON.

B. ALL SOIL EXCAVATIONS FOR FOOTINGS & COMPACTION SHALL BE INSPECTED AND APPROVED BY A QUALIFIED SOILS ENGINEER REPRESENTING THE OWNER PRIOR TO PLACING CONCRETE. EXCAVATIONS SHALL BE FREE OF WATER AT ALL TIMES.

C. NO ENGINEERED FILL SHALL BE PLACED UNTIL EXCAVATION BOTTOMS HAVE BEEN INSPECTED AND APPROVED BY A SOILS ENGINEER.

D. BACKFILLING:
D.1. BOTH SIDES OF FOUNDATION WALLS SHALL BE BACKFILLED SIMULTANEOUSLY SO AS TO PREVENT OVERTURNING OR LATERAL MOVEMENT OF WALLS.
D.2. NO FILL OR BACKFILL SHALL BE SETTLED BY THE USE OF WATER.

E. SEE SHEET S-3 FOR STRUCTURAL NOTES.

F. SEE ELECTRICAL SHEETS FOR LOCATIONS OF UNDERGROUND CONDUIT.

G. SEE PLUMBING PLAN FOR LOCATIONS OF UNDERGROUND PIPING.

H. GC SHALL COORDINATE PIPING WITH FOOTINGS AND/OR STEM WALL, AND REPORT TO A/E OF ANY PENETRATIONS.

I. ALL CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER FOUNDATION WALLS UNLESS NOTED OTHERWISE.

J. SOILS CONTRACTOR SHALL REFER AND CONFORM TO ALL RECOMMENDATIONS AND FINDINGS AS SET FORTH IN THE SOILS GEOLOGICAL REPORT. THE OWNER AND/OR ARCHITECT ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THE FINDINGS, OR FOR THE FINAL RECOMMENDATIONS, GRADING, TRENCHING, ETC. - CONTACT OWNER FOR INSTRUCTIONS PRIOR TO THE CONTINUATION OF WORK SHOULD ANY UNUSUAL CONDITIONS BECOME APPARENT DURING GRADING OR FOUNDATION CONSTRUCTION. EXISTING ELEVATIONS AND LOCATIONS TO BE JOINTED SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IF THEY DIFFER FROM THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER SO THAT MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.

K. REFER TO EQUIPMENT SUPPLIER DRAWINGS FOR LOCATIONS OF ALL FLOOR SINKS AND HUB DRAINS.

| No. | Date | By | Notes |
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AZIZ S. BOU-MARON REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

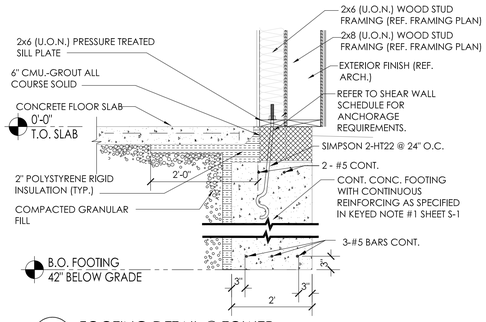
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
FOUNDATION PLAN

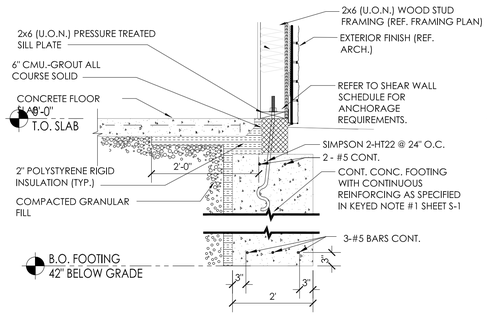
DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

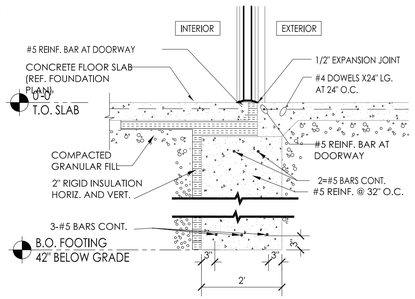
SHEET
S-1



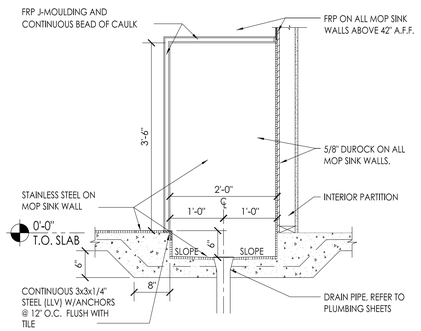

1A FOOTING DETAIL @ TOWER
SCALE: 3 / 4" - 1'-0"



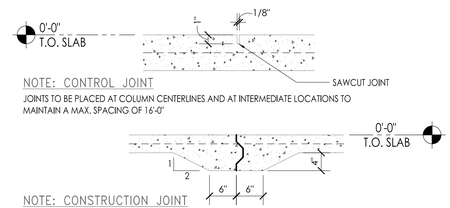

1 TYPICAL FOOTING DETAIL
SCALE: 3 / 4" - 1'-0"



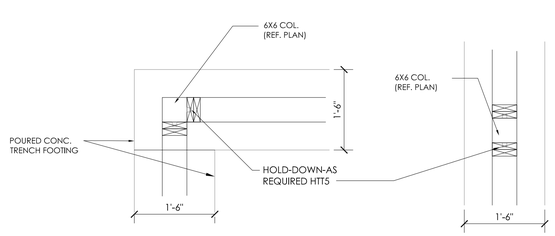

2 TYPICAL EXTERIOR DOOR SLAB DETAIL
SCALE: 3 / 4" - 1'-0"




3 MOP SINK SLAB DETAIL
SCALE: 3 / 4" - 1'-0"



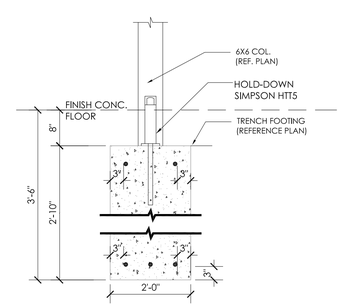

4 CONSTRUCTION/CONTROL JOINT
SCALE: 3 / 4" - 1'-0"




6.1 AT CORNER

6.2 TYPICAL

6 STEEL PLATE DETAIL
SCALE: 3 / 4" - 1'-0"




5 COLUMN/FOOTING SECTION
SCALE: 3 / 4" - 1'-0"

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AZIZ S. BOU-MARON
REGISTERED
No. 910361
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
FOUNDATION DETAILS

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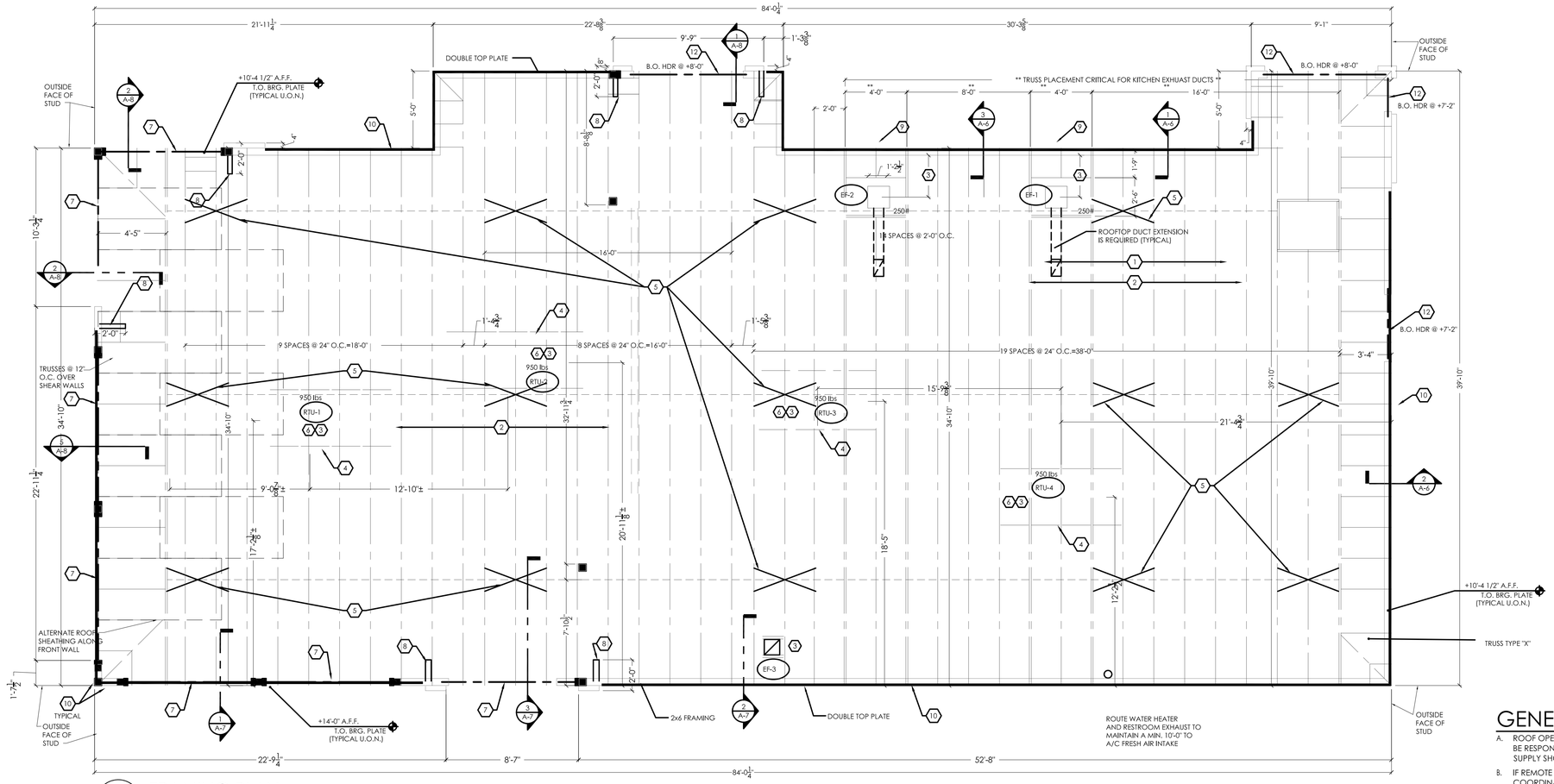
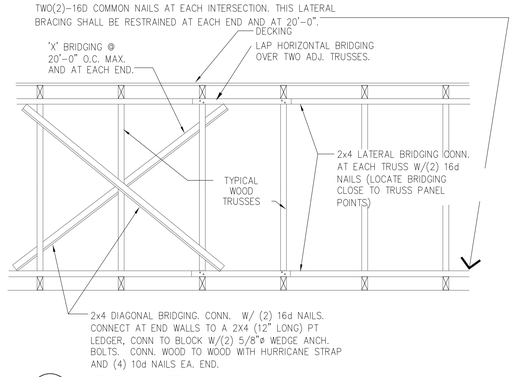
JOB #
TG-21668

SHEET
S-1.1




1 FRAMING PLAN
SCALE: 1 / 4" - 1'-0"

NOTE TO GENERAL CONTRACTOR:
WHERE THE CEILING IS NOT TO BE ATTACHED DIRECTLY TO THE UNDERSIDE OF THE TRUSES. THE TRUSSES SHALL BE LATERALLY BRACED WITH CONTINUOUS 1" X 4" MEMBERS NAILED TO THE UPPER SIDEOF THE BOTTOM CHORD AT A MAXIMUM OF 6'-0" ON CENTER WITH TWO(2)-16D COMMON NAILS AT EACH INTERSECTION. THIS LATERAL BRACING SHALL BE RESTRAINED AT EACH END AND AT 20'-0".




1 BRIDGING DETAIL
SCALE: NTS

## GENERAL NOTES:

A. ROOF OPENINGS FOR A/C UNITS: CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH MFR. AND SUPPLY SHOP DRAWINGS FOR INSTALLATION.

B. IF REMOTE COMPRESSORS ARE USED, CONTRACTOR SHALL COORDINATE INSTALLATION WITH EQUIPMENT MANUFACTURER.

C. SEE SHEET A-5 FOR DETAIL OF SCUPPERS, ROOF DRAINS, ROOF PENETRATIONS AND PITCH PANS.

D. REFERENCE MECHANICAL SHEETS FOR RTU MOUNTING DETAILS.

E. STRUCTURAL DESIGN CRITERIA: REFERENCE GENERAL NOTE, SHEET S-3.

F. TRUSS MANUF. TO SUBMIT SHOP DRAWINGS FOR APPROVAL, PRIOR TO FABRICATION.

G. REFERENCE SHEET S-3 FOR DETAILS OF TRUSS PROFILES.

H. ALL HORIZ. FRAMING LUMBER, INCLUDING 2x JOISTS, BEAMS AND HEADERS SHALL BE DENSE NO. 2 DOUGLAS FIR-LARCH OR BETTER.

I. ALL WOOD STUDS SHALL BE STRUCTURAL NO. 2 DOUGLAS FIR-LARCH OR BETTER.

J. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORT COLUMNS.

K. VERIFY EXACT LOCATIONS OF MECHANICAL UNITS WITH MECHANICAL CONTRACTOR.

L. ROOF TRUSSES TO BE 2'-6" MAX. IN DEPTH. IF DEEPER ROOF TRUSSES ARE REQUIRED, PLEASE NOTIFY ARCHITECT IMMEDIATELY.

M. WHERE MULTIPLE TRUSSES ARE INDICATED, TOP CHORDS SHALL BE BOLTED WITH 1/2 INCH DIAMETER BOLTS AT 4'-0" O.C., OR AS SPECIFIED BY THE TRUSS MANUFACTURER.

N. REFERENCE SHEET S-3 FOR STRUCTURAL NOTES.

## KEYED NOTES:

1. RATED SHEATHING BLOCKED AT PANEL EDGES WITH 8d NAILS AT 6" O.C. AND INTERMEDIATE SUPPORTS
2. PREFAB. WOOD TRUSSES AT 2'-0" O.C. MAX. (TYP) UNLESS NOTED
3. ROOF OPENING FOR MECHANICAL SYSTEMS. REF. TO MECH. SHEETS FOR SIZE OF ROOF PENETRATIONS.
4. (2) 2x8 BETWEEN TRUSSES LVS28-2 SIMPSON JOIST HANGER EACH END
5. WOOD BRIDGING. REFERENCE DETAIL 02/S-2
6. REFER TO M-2 FOR A/C CURB MOUNTING DETAIL.
7. FRONT: UPPER BEAMS (3) 2X12 WOOD STUDS; LOWER BEAMS (3) 2X10 WOOD STUDS
   SIDE: UPPER BEAMS 3 PLY 1 3/4" x 11 1/4" LVL; LOWER BEAMS (3) 2X10 WOOD STUDS
8. PROVIDE 2x4 FRAMED RETURN WALL AT RAISED PARAPET TOWER ELEMENT. REFER TO DETAILS #3 AND #4, SHEET A-8
9. CENTER LINE OF EXHAUST DUCT. VERIFY LOCATION IN FIELD. VERIFY DUCT SIZE WITH MANUFACTURER.
10. ALL WALL FRAMING TO BE 2x10 WOOD STUDS @ 16" O.C. (U.O.N.)
11. 2x4 BLOCKING @ 24" O.C. AT BOTTOM CHORD OF TRUSS FOR FOR BRACING OF NON-LOAD BEARING EXTERIOR WALLS.
12. WOOD HEADER (3) 2x10 W/ (2) 3/4" PLWD SPACERS. DOUBLE STUDS AT EACH END OF OPENING (4" MIN. BEARING)

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INQUOT SUBMITAL |

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Date: 08.02.21

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AZIZ S. BOU-MARON REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
FRAMING PLAN

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JOB # TG-21668

SHEET S-2

# STRUCTURAL NOTES

## A. GENERAL

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.
2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUB-CONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.
4. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING CONSTRUCTION. THIS INCLUDES ANY REQUIRED SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIE DOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
5. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
6. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO COORDINATE ALL DETAILS, DIMENSIONS, ELEVATIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.
7. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

## B. GOVERNING CODE: 2014 - INDIANA BUILDING CODE

1. ROOF SNOW LOADS
A. GROUND SNOW LOAD: Pg = 30 PSF. (FIGURE 1608.2)
B. FLAT-ROOF SNOW LOAD: Pf = 30 PSF. (ASCE 7, SECT 7.3)
C. SNOW EXPOSURE FACTOR: Ce = 1 (TABLE 1608.3.1)
D. SNOW LOAD IMPORTANCE FACTOR: Is = 1 (TABLE 1604.5)
E. SNOW THERMAL FACTOR: Ct = 1 (TABLE 1608.3.2)
F. ALL APPLICABLE EFFECTS DUE TO SNOW DRIFTING (SECTION 1608)

2. ROOF LIVE LOADS
A. MINIMUM ROOF LIVE LOAD = 30 PSF. (SECTION 1607.11.2)
B. SEE "PREFABRICATED WOOD TRUSSES" DESIGN CRITERIA FOR ADDITIONAL LOADING INFORMATION.

3. WIND LOADS
A. BASIC WIND SPEED = 115 MPH (FIGURE 1609)
B. WIND LOAD IMPORTANCE FACTOR: Iw = 1 (TABLE 1604.5)
C. WIND EXPOSURE CATEGORY "B" (SECTION 1609.4)

4. SEISMIC DESIGN DATA:
A. SEISMIC SITE CLASS - VFY WITH SOIL TEST BASED ON SECTION 1615.1
B. SEISMIC IMPORTANCE FACTOR: Ie = 1 (TABLE 1604.5)
C. SITE (SOIL) CLASS - VFY WITH SOIL TEST SECTION 1615.1.2
D. STRUCTURAL FRAMING AND SEISMIC RESISTING SYSTEM:
LIGHT-FRAMED WALLS WITH SHEAR PANELS
(TABLE 1617.6.2, ITEM 1 K)

## C. FOUNDATION

1. FOUNDATIONS ARE DESIGNED TO BEAR ON NATURAL GRADE OR FILL, WELL COMPACTED OF AN ALLOWABLE BEARING CAPACITY, INDICATED ON THE FOUNDATION PLAN.
2. A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO PERFORM SOIL BORINGS, PROVIDE A FOUNDATION REPORT AND VERIFY THAT THE REQUIRED MINIMUM BEARING CAPACITY WAS OBTAINED.
3. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.
4. BOTTOM OF FOOTING ELEVATION TO BE DETERMINED BY THE SOIL CONDITIONS AND FROST-LINE DEPTH.
5. ALL LONGITUDINAL REBARS IN THE WALL FOOTINGS, SHALL BE CONTINUOS AND SPLICED AS SPECIFIED. CONTINUE ALL HORIZONTAL REBARS AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

## D. REINFORCED CONCRETE

1. MATERIALS:
A. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 301-(LATEST EDITION) "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS."
B. STRUCTURAL CONCRETE:

| CLASS | LOCATION | F'c |
|---|---|---|
| I. | FOOTINGS, CAISSONS, & GRADE BEAMS | 3,000 |
| II. | INTERIOR SLABS ON GRADE, AND ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED | 3,500 |
| III. | PIERS PLACED INTEGRALLY WITH WALLS, EXTERIOR SLABS ON GRADE, AND ALL EXTERIOR CONCRETE (WITH AIR) NOT OTHERWISE IDENTIFIED | 4,000 |
| IV. | BACKFILL BELOW FOOTINGS AND GRADE BEAMS | 1,500 |

C. ALL DEFORMED REINFORCING BARS: FY = 60,000,
D. GALVANIZED WELDED WIRE FABRIC SHALL CONFORM TO ASTM A165 (LATEST EDITION). USE SHEET FORM, NOT ROLLED.

2. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.

3. CONTINGENCIES:
A. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT AND CONCRETE COVER OVER THE REINFORCING.

4. FOOTINGS:
A. VERTICAL DOWELS IN FOOTINGS TO MATCH VERTICAL WALL REINFORCING.
B. PROVIDE LEAN CONCRETE (CLASS IV) UNDER FOUNDATIONS FOR ACCIDENTAL OVER-EXCAVATION, SOFT SPOTS AND TRENCHES.

5. SPLICES: UNLESS NOTED OTHERWISE, MINIMUM LAP SPLICE LENGTHS TO BE AS FOLLOWS:
A. VERTICAL BARS IN WALLS, PIERS, OR COLUMNS (INCLUDING DOWELS) — 30 DIAMETER
B. HORIZONTAL BARS IN SLABS & FOOTING — 35 DIAMETER
C. HORIZONTAL BARS IN WALL — 45 DIAMETER

6. SAW-CUT & CONSTRUCTION JOINTS:
PROVIDE JOINTS IN ALL SLABS-ON-GRADE, AS INDICATED ON THE FOUNDATION PLAN.

7. CONCRETE COVER: UNLESS NOTED OTHERWISE, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:
A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
B. CONCRETE EXPOSED TO EARTH OR WEATHER:
#5 BARS AND SMALLER — 1-1/2 INCHES
OTHERS — 2 INCHES
C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER:
BEAM AND COLUMN BARS INCLUDING TIES, STIRRUPS AND SPIRALS — 1-1/2 INCHES
SLABS, WALLS, JOISTS:
#11 BARS AND SMALLER — 1 INCH
OTHERS — 1-1/2 INCHES

## E. STRUCTURAL STEEL

1. MATERIALS:
A. STRUCTURAL STEEL: ASTM A36, FY = 36 KSI: ASTM A572. ANCHOR BOLTS: ASTM A307 OR A36: ELECTRODES: SERIES E70: EXPANSION BOLTS: HILTI "KWIK BOLTS" OR APPROVED EQUAL.

2. SPECIFICATIONS: WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY: (ALL CODES - LATEST EDITION)
A. AISC SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
B. AISC CODE OF STANDARD PRACTICE.
C. STRUCTURAL WELDING CODE, AWS D1.1- OF THE AMERICAN WELDING SOCIETY.

3. CONNECTIONS:
CONNECTIONS TO BE DESIGNED BY THE FABRICATOR TO DEVELOP FULL STRENGTH OF MEMBER OR FORCES SHOWN ON THE PLANS, WHICHEVER GOVERNS. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS.

4. GALVANIZING: ALL SHELF ANGLES, LINTELS IN EXTERIOR WALLS, AND ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS SHALL BE HOT DIP GALVANIZED.

6. MISCELLANEOUS:
A. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
B. STEEL SUPPORTING OR CONNECTED TO HVAC AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON THE DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL RECONCILE EXACT SIZE AND LOCATION BEFORE PROCEEDING WITH HIS WORK.
C. GROUT UNDER BEARING PLATES, BASE PLATES, AND SETTING PLATES TO BE NON-SHRINKING TYPE.
D. STEEL BELOW GRADE TO BE PROTECTED BY A MIN. OF 3 INCHES OF CONCRETE.
E. PROVIDE HEAVY WASHER AT ALL ANCHOR BOLTS.
F. EMBEDMENT LENGTH OF EXPANSION BOLTS INTO SOLID MASONRY OR CONCRETE SHALL BE AS FOLLOWS:
1/2 INCH DIAMETER BOLTS --- 3 1/2 INCHES EMBEDMENT
3/4 INCH DIAMETER BOLTS --- 5 INCHES EMBEDMENT

## F. MASONRY

1. MATERIALS:
A. CONCRETE BLOCK: ASTM C90 (HOLLOW) ASTM C145 (SOLID).
B. MORTAR: ASTM C270 TYPE "S", AVERAGE COMPRESSIVE STRENGTH: 1800 PSI MINIMUM (AT 28 DAYS).
C. BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE.
D. JOINT REINFORCING: MILL GALVANIZED FINISH, 9 GAGE MINIMUM SIDE WIRES AND CROSS WIRES (LADDER OR TRUSS TYPE).
E. BAR REINFORCING: ASTM A615, GRADE 60.

2. REINFORCED MASONRY, WHERE VERTICAL BARS ARE TO BE GROUTED INTO CORES, THE FOLLOWING REQUIREMENTS APPLY:
A. PROVIDE DOWELS FROM FOOTING, SAME SIZE AND SPACING AS WALL BARS. LAP 12 INCHES MINIMUM WITH WALL BAR. EMBED INTO FOOTING 9 INCHES.
B. PROVIDE A CONTINUOUS VERTICAL CAVITY, AT LEAST 2"x3" IN SIZE, FREE OF MORTAR DROPPINGS.
C. AT SPLICES IN VERTICAL BARS, PROVIDE MECHANICAL COUPLERS OR 48 DIAMETER LAP.
D. ALL REINFORCEMENT MUST BE INSTALLED AND SECURELY ANCHORED IN PLACE PRIOR TO PLACEMENT OF GROUT.

3. MISCELLANEOUS:
A. FILL CORE SOLID AROUND ANCHOR BOLTS.
B. PROVIDE 100% SOLID BLOCKS OR SOLIDLY FILLED HOLLOW BLOCKS AT ALL EXPANSION BOLT LOCATIONS.
C. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
E. PROVIDE JOINT REINFORCING AT 16 INCHES, EXCEPT AS NOTED.
F. LAP JOINT REINFORCING 6 INCHES FOR STANDARD, 15 INCHES FOR HEAVY WEIGHT.
G. WHERE MASONRY UNITS ARE USED ABOVE HOLLOW UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF 100% SOLID MASONRY (OR SOLID GROUTED BLOCK) AT LEAST 8 INCHES HIGH BELOW TRANSITION.

## H. STRUCTURAL LUMBER

1. A. STUDS: STRUCTURAL LUMBER: DOUGLAS FIR-LARCH #2, OR APPROVED EQUAL:

| SIZE | Fb | Ft | Fv | Fc⊥ | Fc | E |
|---|---|---|---|---|---|---|
| 2x4 | 1,500 | 825 | 90 | 565 | 1,650 | 1,600,000 |
| 2x6 | 1,250 | 725 | 90 | 565 | 1,600 | 1,600,000 |
| 2x8 | 1,200 | 650 | 90 | 565 | 1,550 | 1,600,000 |
| 2x10 | 1,050 | 600 | 90 | 565 | 1,500 | 1,600,000 |
| 2x12 | 975 | 550 | 90 | 565 | 1,450 | 1,600,000 |

B. ROOF/WALL: ORIENTED STRAND BOARD: STRUCTURAL 1, EXPOSURE I, EXTERIOR GLUE. FOR ROOF AND WALLS PANEL IDENTIFICATION INDEX 24/16 - 5/8 INCH OR 24/0 - 1/2 INCH (WITH PLYWOOD CLIPS AT ROOF).
C. ROOF/WALL: PLYWOOD: C-CPLUGGED, STRUCTURAL 1, EXPOSURE 1. EXTERIOR GLUE FOR ROOF AND WALL PANEL IDENTIFICATION INDEX 24/16-5/8 INCH OR 24/0-1/2 INCH (WITH PLYWOOD CLIPS AT ROOF).
D. SILL PLATES: NO. 2 SPRUCE-PINE-FIR, OR EQUAL FC=675 PSI, FV=70 PSI, E= 1,200,000 PSI

2. SPECIFICATIONS: UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY THE LATEST REVISIONS OF:
A. NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENINGS.
B. U.S. PRODUCT STANDARD PS-1 FOR SOFTWOOD PLYWOOD - CONSTRUCTION AND INDUSTRIAL.

3. CONNECTIONS:
A. JOISTS TO BEAMS - 16 GA. GALVANIZED STD. JOIST HANGERS, UNLESS SHOWN OTHERWISE.
B. PLYWOOD TO ROOF TRUSSES OR RAFTERS - NAILED - USE 8d RING SHANK NAILS AT 6 INCHES O/C AT PANEL EDGES AND 12 INCHES C/C AT INTERMEDIATE SUPPORTS. PROVIDE PLYWOOD CLIPS AT MID-SPAN OF PLYWOOD BETWEEN SUPPORTS.

4. ALL STRUCTURAL WOOD TO BE SURFACED FOUR (4) SIDES (S-4-S) A AND MAXIMUM MOISTURE CONTENT OF 19 PERCENT.

5. ALL LUMBER AND PLYWOOD IN CONTACT WITH CONCRETE, STUCCO, MASONRY OR OTHER CEMENTITIOUS MATERIALS SHALL BE TREATED WITH AN E.P.A. ACCEPTABLE WOOD PRESERVATIVE (SUCH AS "AQC" - ALKALINE-COPPER-QUATERNARY OR "CBA-A" COPPER AZOLE TYPE A & B).

6. ALL WOOD CONNECTORS SHALL BE GALVANIZED STEEL OR RUST-PROOF PAINTED STEEL (U.O.N.). ALL GALVANIZED METAL CONNECTORS IN CONTACT WITH TREATED WOOD (ITEM #5) SHALL BE "TRIPLE-ZINK G-185" GALVANIZED. ANY FIELD WELDS (INTERIOR OR EXTERIOR) OF SUCH CONNECTORS SHALL BE WIRE BRUSH CLEANED AND RUST PROOF PAINTED.

7. MISCELLANEOUS:
A. USE ONE LINE OF SOLID BLOCKING OR CROSS BRIDGING AT 8'- 0" O/C MAX. FOR ALL JOISTS AND RAFTERS, USE SOLID BLOCKING AT JOIST AND RAFTER BEARING.
B. USE SOLID BLOCKING AT MID-HEIGHT FOR ALL EXTERIOR STUD WALLS AND INTERIOR BEARING PARTITIONS.
C. USE DOUBLE STUDS UNDER BEAM AND LINTEL BEARING, UNLESS SHOWN OTHERWISE.

## I. PREFABRICATED WOOD TRUSSES

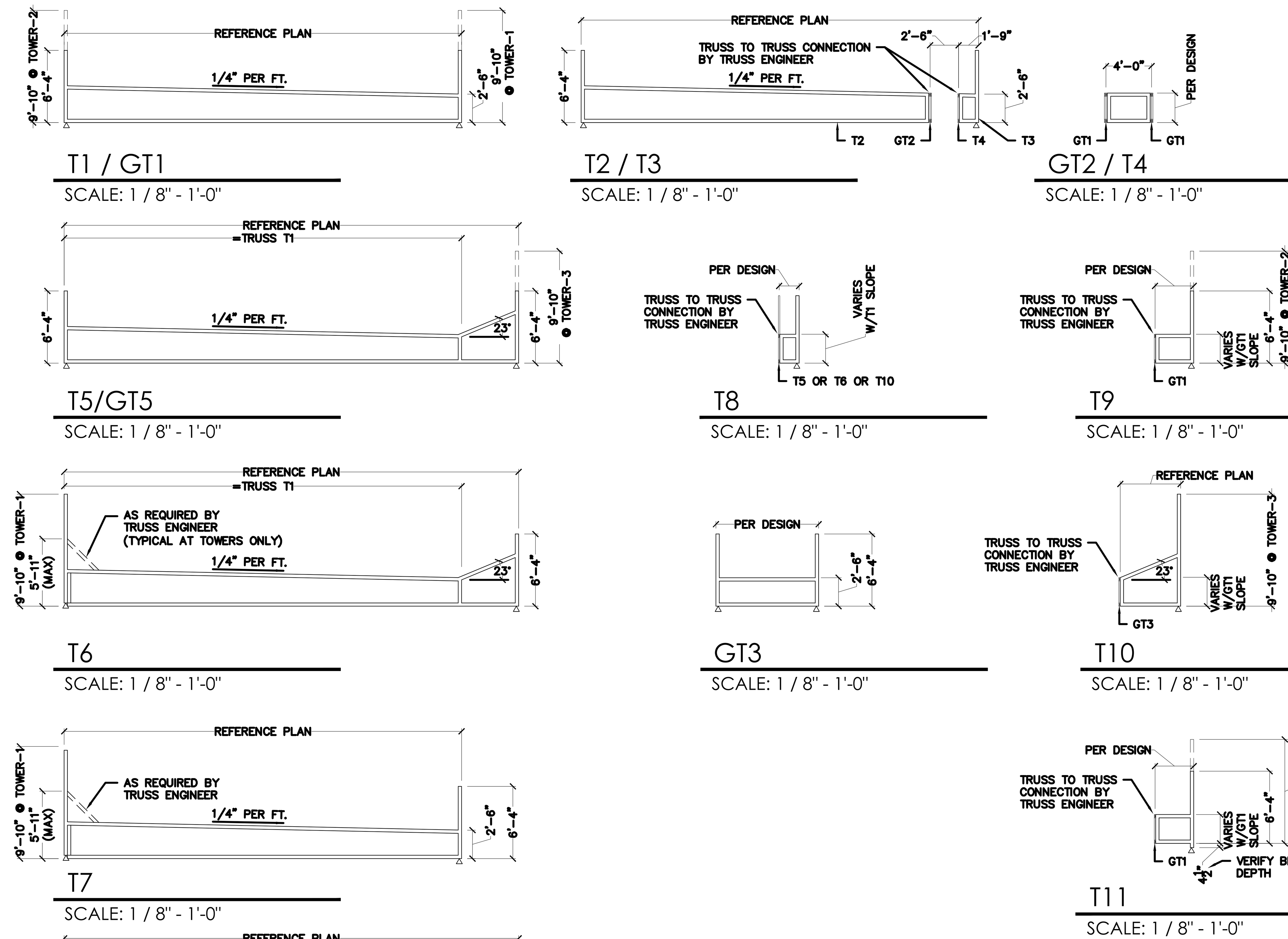
1. MATERIALS:
A. LUMBER: SEE "STRUCTURAL LUMBER" SECTION FOR WOOD INFORMATION.
B. METAL CONNECTOR PLATES: GALVANIZED SHEET STEEL ASTM A446 (LATEST EDITION) GRADE "A". COATING CLASS G60 PER ASTM A525 (LATEST EDITION). MANUFACTURED WITH HOLES, PLUGS, TEETH, OR PRONGS UNIFORMLY SPACED AND FORMED.
SEE "STRUCTURAL LUMBER" SECTION FOR GALVANIZED CONNECTIONS FOR TREATED WOOD.

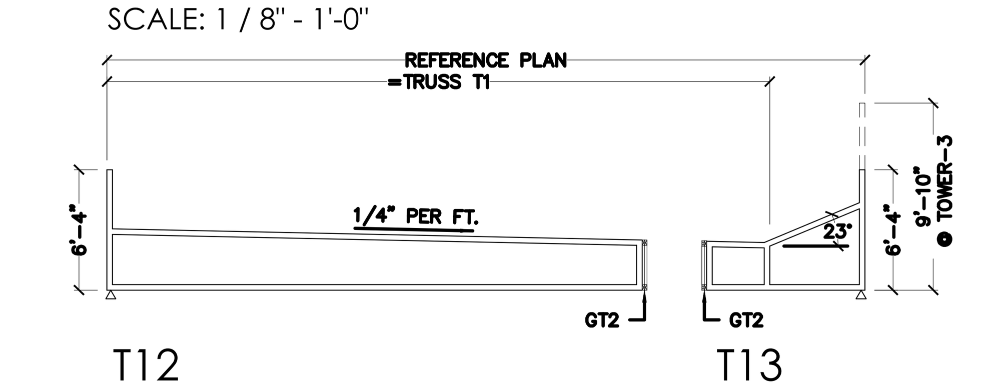
2. DESIGN CRITERIA:
A. LOADING:
TOP CHORD LIVE LOAD: 20 PSF
TOP CHORD DEAD LOAD: 20 PSF + MECH EQUIP.
BOTTOM CHORD DEAD LOAD: 10 PSF
NET WIND UPLIFT: 10 PSF
B. DESIGN OF MEMBERS AND CONNECTIONS IS TO BE BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF THIS PROJECT, EXPERIENCED IN SIMILAR DESIGN, RETAINED BY THE TRUSS MANUFACTURER.
C. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THE TRUSS DESIGN. IN ADDITION, SIGNED AND SEALED DESIGN CALCULATIONS FOR THESE TRUSSES SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW.
D. MEMBER SIZES SHOWN ARE MINIMUM SIZES.
E. MAXIMUM LIVE LOAD DEFLECTION IS TO BE L/360.
F. MAXIMUM TOTAL LOAD DEFLECTION IS TO BE L/240.

3. MISCELLANEOUS:
A. BOLT TOP CHORDS OF ALL MULTIPLE MEMBER TRUSSES TOGETHER WITH 1/2"Ø BOLTS AT 4'-0" O.C.. BOLT WEB MEMBERS TOGETHER WITH 1/2"Ø BOLTS AT 2'-0" O.C. AT CONCENTRATED LOADS, UNLESS OTHERWISE SPECIFIED BY THE TRUSS DESIGN ENGINEER.
B. VERIFY ALL DIMENSIONS, ELEVATIONS AND SLOPES PRIOR TO MANUFACTURING. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT.
C. WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED TO CONFORM TO THE GEOMETRY SHOWN ON THE DRAWINGS. WEB CONFIGURATIONS ARE TO BE DETAILED AS REQUIRED BY THE DESIGNER/FABRICATOR.
D. PROVIDE 2x4 BOTTOM CHORD BRIDGING AT A MAXIMUM SPACING OF 10'-0" O.C.

## J. ABBREVIATIONS:

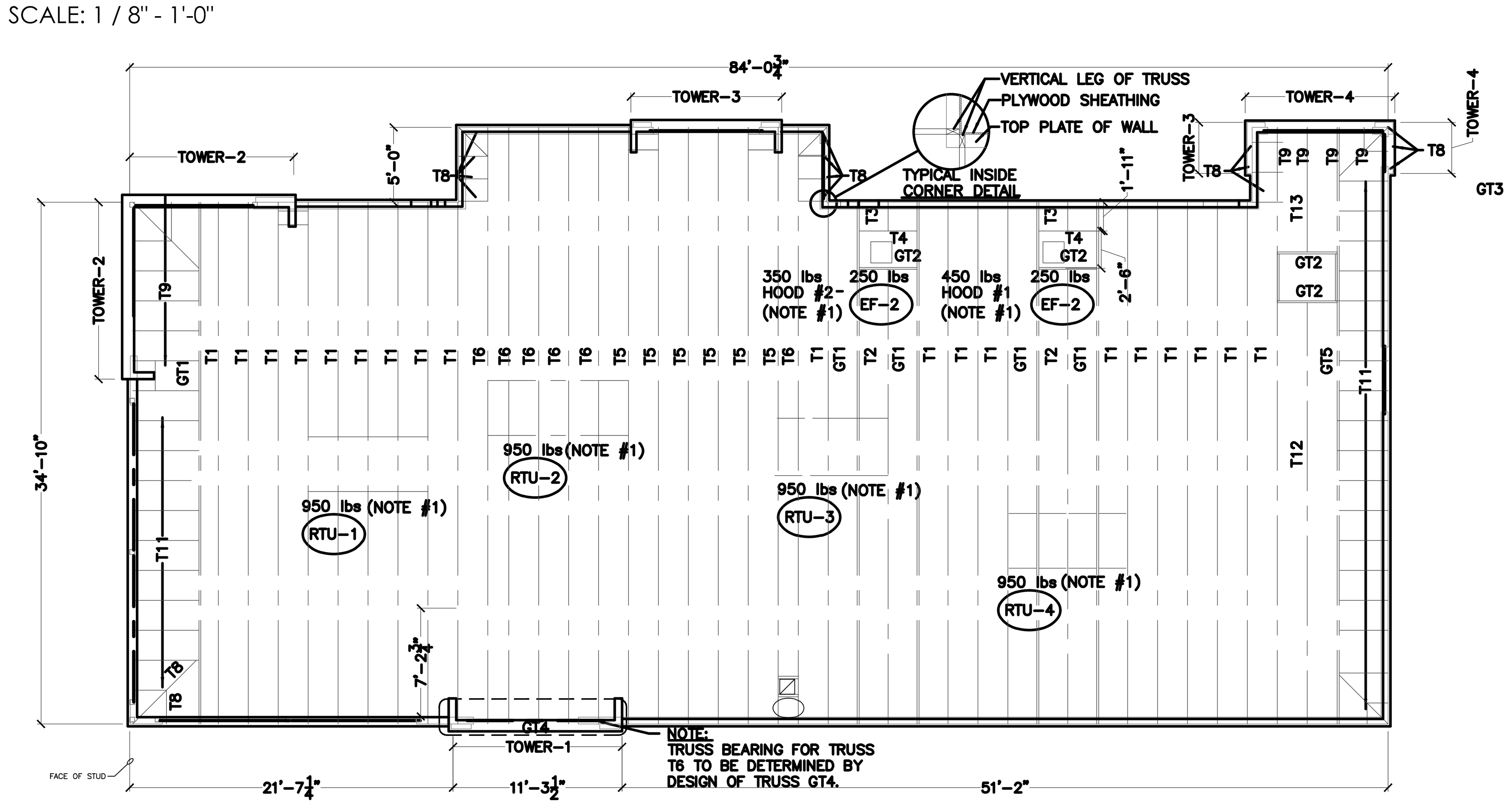
T = TOP
B = BOTTOM
C.M.U. = CONCRETE MASONRY UNIT
E.F. = EACH FACE
E.W. = EACH WAY
E.E. = EACH END
O.C. = ON CENTER
T.O.F. = TOP OF FOOTING ELEVATION
T.0.S. = TOP OF SLAB ELEVATION
T.O.W. = TOP OF WALL ELEVATIONS
S.O.G. = SLAB ON GRADE
W.W.F. = WELDED WIRE FABRIC
U.N.O. = UNLESS NOTED OTHERWISE
TYP = TYPICAL
T.B. = TRUSS BEARING ELEVATION
J.B. = JOIST BEARING ELEVATION
L.L.V. = LONG LEG VERTICAL
L.L.H. = LONG LEG HORIZONTAL




- TRUSS PROFILE PROVIDE FOR DESIGN INTENT ONLY. FIELD MEASUREMENTS REQUIRED FOR SITE SPECIFIC PROJECT.
- TRUSS DESIGN/MEMBER SIZES TO BE DETERMINED BY THE TRUSS ENGINEER BASED ON LOCAL DESIGN LOAD REQUIREMENTS.
- REFER TO GENERAL NOTES FOR ADDITIONAL INFORMATION
- TRUSS DRAWING SUBMITTALS TO BE SENT TO ENGINEER OF RECORD FOR APPROVAL PRIOR TO CONSTRUCTION.

TRUSS PROFILES
SCALE: 1 / 8" - 1'-0"




TRUSS LAYOUT
SCALE: 1 / 8" - 1'-0"

| No. | Date | By | Notes |
|---|---|---|---|
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Checked: SB
Scale: AS NOTED
Date: 08.02.21

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10.06.2022

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SHEET TITLE
STRUCTURAL NOTES AND DETAILS

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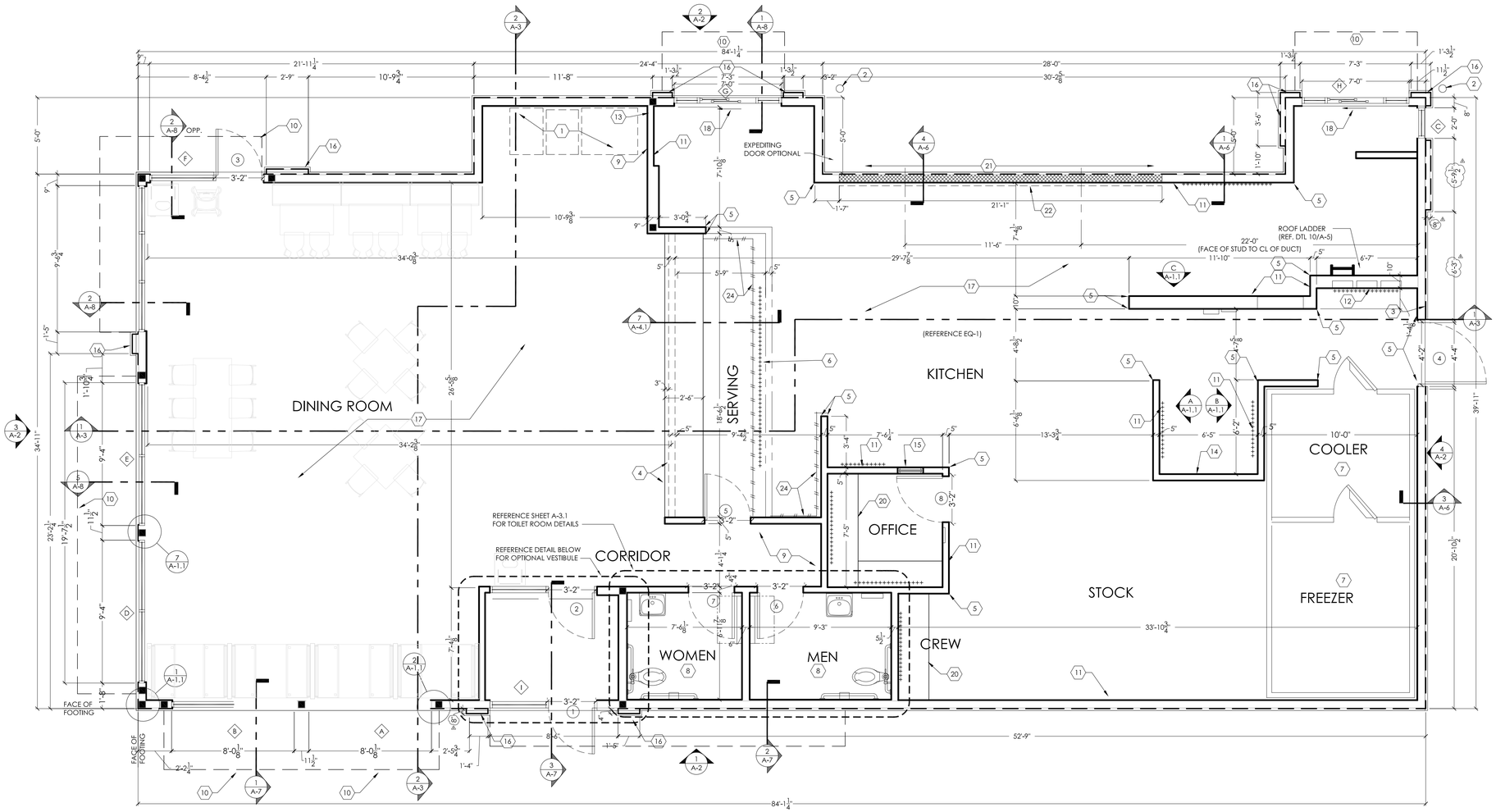
JOB #
TG-21668

SHEET
S-3




1 FLOOR PLAN
SCALE: 1 / 4" - 1'-0"

N

## GENERAL NOTES:

A. ALL DIMENSIONS ARE TO FACE OF STUDS
B. OVERALL DIMENSIONS TO EXTERIOR WALLS ARE THE SAME AS TO THE OUTSIDE FACE OF FOUNDATION WALL BELOW.
C. ALL ANGLED WALLS ARE AT 90° UNLESS NOTED OTHERWISE.
D. FIRE EXTINGUISHER, SHALL COMPLY WITH APPLICABLE BUILDING CODES AND LOCAL RESTRICTIONS.
E. ELEVATION OF DRIVE-THROUGH LANE 2" (MAXIMUM) BELOW FINISH FLOOR ELEVATION. DRIVE-THROUGH LANE AT SAME ELEVATION AS FINISH FLOOR IS PREFERRED. REFERENCE DETAIL #5, SHEET A-1.1
F. FOR DOOR AND WINDOW TYPES, REFER TO SHEET A-10.

## KEYED NOTES:

1. SELF-SERVE DRINKS AND CONDIMENT STAND. REFER TO KITCHEN DRAWINGS.
2. STEEL BOLLARD - REFER TO SHEET S-1.
3. ELECTRIC SERVICE. REFER TO ELECTRICAL DRAWINGS.
4. SERVICE COUNTER PARTITION BY G.C. REFER TO DETAILS ON SHEET E-4 FOR ADDITIONAL INFORMATION. COORDINATE COUNTER TOP/FINISHES INSTALLATION RESPONSIBILITIES WITH THE DECOR SUPPLIER. MAXIMUM COUNTER HEIGHT = 32" A.F.F.
5. CORNER GUARDS - REFER TO DETAIL #4, SHEET A-1.1.
6. MENU BOARD BULKHEAD ABOVE. REFER TO SHEET A-4.1
7. INTERIOR WALK-IN BOX WITH FLOOR ON CONCRETE SLAB. VERIFY SIZE WITH MANUFACTURER.
8. PROVIDE ADDITIONAL BLOCKING IN WALLS BEHIND URINAL SCREEN AND BEHIND PLUMBING FIXTURES FOR SUPPORT OF WATER LINES (TYPICAL).
9. ALL WALLS AT EXPOSED TRUSSES TO BE FRAMED AND FINISHED TO THE ROOF DECK.
10. LINE OF CANOPY ABOVE.
11. SUBSTRATE PANELS:
    KITCHEN - CREW - RESTROOMS
    5/8" USG "DUROCK" PANELS AT FINISH FLOOR TO 24" A.F.F.
    5/8" WATER RESISTANT GYPSUM BOARD FROM 24" A.F.F. TO 6" ABOVE FINISHED CEILING.
    DINING ROOM - CORRIDOR
    5/8" TYPE USG "SHEETROCK" TYPE "X" GYPSUM WALL BOARD.
    FINISH: CORONADO PAINT - LIGHT ORANGE PEEL APPLIED WITH CORONADO AIR ASSIST TIP (Z-122KD) OR EQUAL
12. ELECTRICAL PANELS
    OPTION #1:
    RECESS ELECTRICAL CONTACTOR PANEL AND PANELS "A", "B" AND "M" IN FURRED OUT WALL ADJACENT TO EXTERIOR FRAMING. G.C. TO VERIFY PANEL SIZES PRIOR TO FURR-OUT TO INSURE ADEQUATE SPACE.
13. PROVIDE 10"x10" FINISHED OPENING THROUGH WALL CENTERED AT 13" A.F.F. FOR ROUTING OF UTILITIES.
14. CAN WASH - DUROCK SUBSTRATE ON ALL THREE SIDES, FLOOR TO CEILING.
15. ~~OFFICE WINDOW - REFERENCE SHEET A-10.~~
16. 8" DEEP FURR-OUT ELEMENT, 22" FINISH WIDTH MINIMUM (U.N.O.). REFER TO WALL SECTIONS. PROVIDE 16" DEEP CONCRETE CURB (REF. FOUNDATION PLAN) AND FRAMING AS REQUIRED FOR FINISH DIMENSION REQUIREMENTS.
17. TILE FLOOR.
18. DRIVE-THROUGH SLIDING WINDOW.
19. +++++++ INDICATES 5/8" PLYWOOD BACKING ON WALLS FOR EQUIPMENT AS INDICATED ON PLAN OR SHELF SUPPORT FROM 48" A.F.F. TO 96" A.F.F., BEHIND 3-COMPARTMENT SINK AND PREP SINK AND ON BULKHEAD AT MENU BOARD WALL FROM 6'-8" A.F.F. TO BOTTOM OF ROOF TRUSSES.
20. COUNTER TOP - REFERENCE DETAIL #6, A-1.1.
21. USG 5/8" DUROCK (BOTH SIDES) ON 3-5/8", 18 GAUGE CEE STUD FRAMING AT 16" O.C. BEHIND HOOD. WALL TO EXTEND 18" BEYOND EACH END OF HOOD.
22. STAINLESS STEEL PANELS BELOW AND 18" WIDE AT EACH SIDE OF HOOD SUPPLIED BY HOOD MANUFACTURER AND INSTALLED BY G.C.
23. 4" CONCRETE WALK BETWEEN DRIVE-THROUGH BUMP-OUTS. CONCRETE WALK IS NOT REQUIRED IF EXPEDITING DOORS ARE NOT USED.
24. —#—#—#— INDICATES 3"x12" SUBWAY TILE. REFER TO DECOR.
    REMAINING BACK OF HOUSE WALLS TO BE FINISHED IN FIBERGLASS REINFORCED PANELS. FRP-1G

3

## B.O.H FINISH SCHEDULE

| CODE | MATERIAL | LOCATION | SOURCE | PRODUCT | COLOR | DIMENSIONS |
|---|---|---|---|---|---|---|
| CT-10G | TILE | BACK OF HOUSE | GRANITE FIANDRE/ EUROWEST | TCG0606142 | CAPITOL GRAY TX | 6" x 6" |
| FRP-1G | FIBERGLASS REINFORCED PANEL | BACK OF HOUSE | MARLITE | FRP SYMMETRIX 204561B (4'x8') 204551 (4'x10') WHITE/BLK CORE NO TOP COAT (GRAY SCORE LINE) | A916 G312 | 6" x 6" |
| GR-6G | TILE | BACK OF HOUSE | LATICRETE | SPECTRALOCK 2000 IG | #45 RAVEN | |
| | | | CUSTOM BUILDING PRODUCTS | CEG-IG INDUSTRIAL GRADE 100% SOLIDS EPOXY GROUT | #370 DOVE GRAY | |

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 04.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

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P: (248) 426-8000 F: (248) 426-7004

AZIZ S. BOU-MARON REGISTERED No. 910381 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

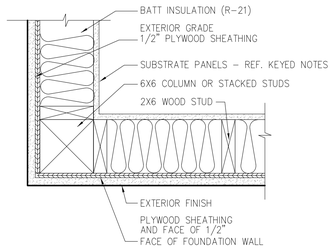
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
FLOOR PLAN

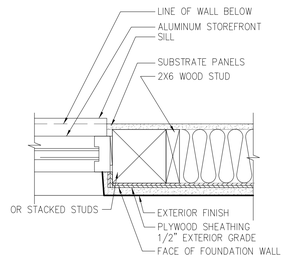
DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

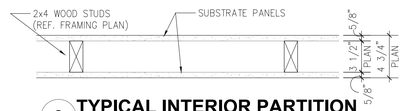
SHEET
A-1



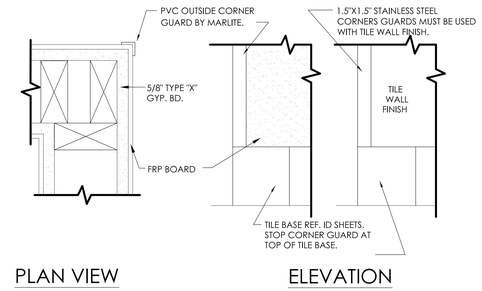

1 **PLAN DETAIL**
SCALE: 1-1/2" = 1'-0"



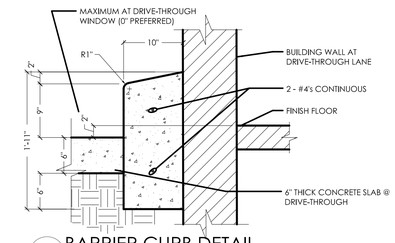

2 **PLAN DETAIL**
SCALE: 1-1/2" = 1'-0"



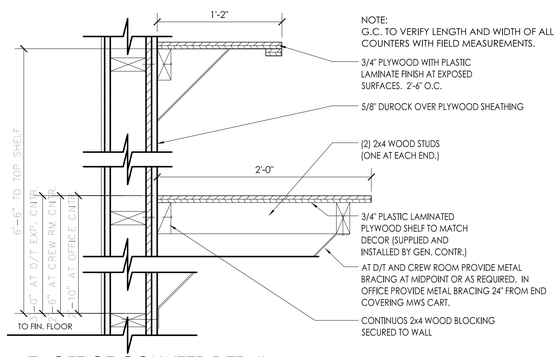

3 **TYPICAL INTERIOR PARTITION**
SCALE: 1-1/2" = 1'-0"



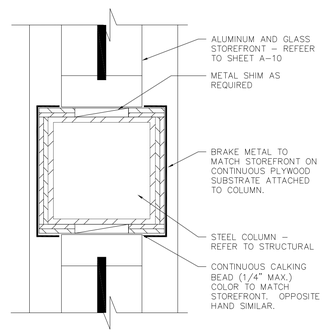

4 CORNER GUARD DETAIL
SCALE: 1-1/2" = 1'-0"



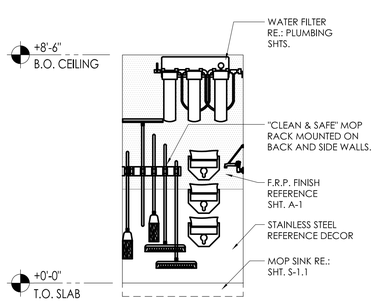

5 BARRIER CURB DETAIL
SCALE: 1" = 1'-0"



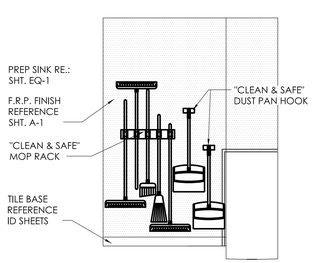

6 OFFICE COUNTER DETAIL
SCALE: 1-1/2" = 1'-0"



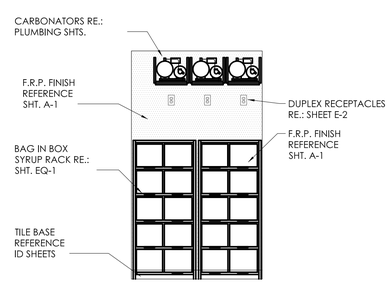

7 **COLUMN**
**BRAKE METAL ENCLOSURE**
SCALE: 3" = 1'-0"




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




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




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

| No. | Date | By | Notes |
|---|---|---|---|
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| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INQUOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP, inc.
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FARMINGTON HILLS, MI 48331
P: (248) 426-0600 F: (248) 426-7004

10.06.2022

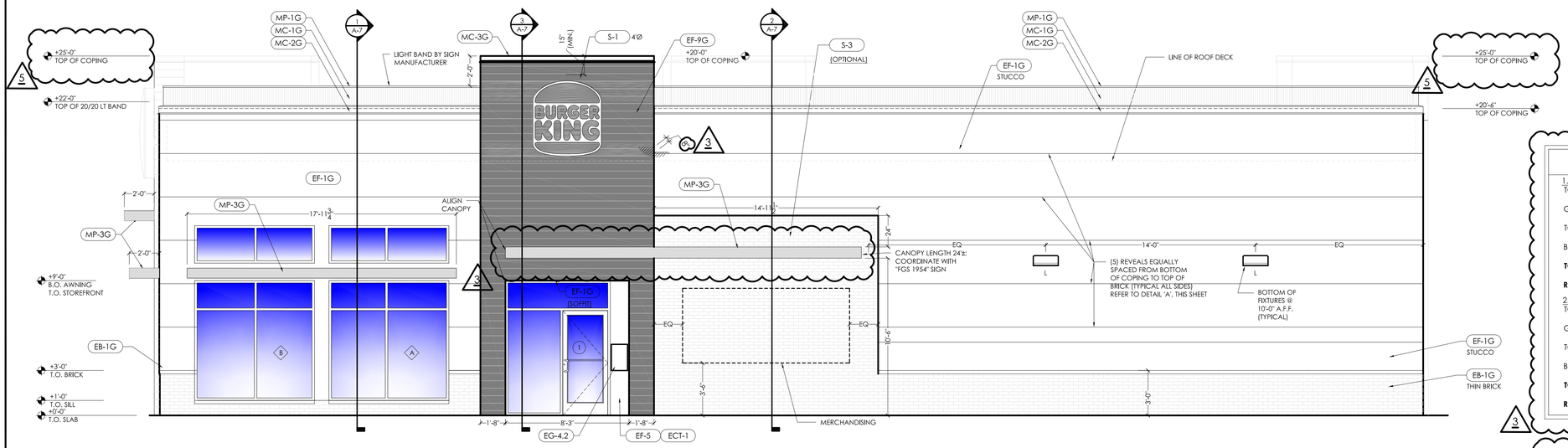
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
MISCELLANEOUS DETAILS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

SHEET
A1.1




1 MAIN ENTRANCE ELEVATION

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

## FACADE CALCULATIONS

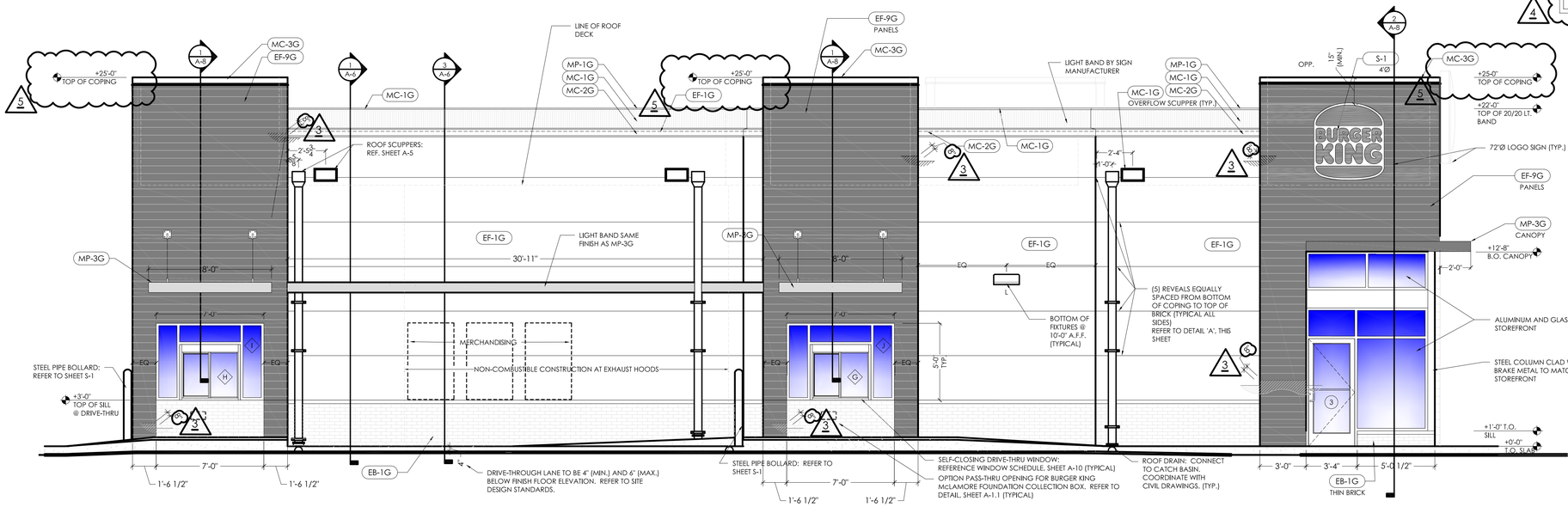
| | |
|---|---|
| 1. MAIN ENTRANCE FACADE | |
| TOTAL FACADE SQFT: | 1850 SQFT |
| GLAZING: | 231 SQFT / 13% |
| TOWER: | 278 SQFT / 15% |
| BRANDING: | 176 SQFT / 9.5% |
| **TOTAL %:** | **37.5%** |
| **REQUIRED %:** | **33%** |
| 2. DRIVE THROUGH FACADE | |
| TOTAL FACADE SQFT: | 1870 SQFT |
| GLAZING: | 153 SQFT / 8% |
| TOWER: | 744 SQFT / 40% |
| BRANDING: | 95 SQFT / 5% |
| **TOTAL %:** | **53%** |
| **REQUIRED %:** | **33%** |

## MECHANICAL SCREENING

****CONTRACTOR TO FIELD VERIFY IF HVAC UNITS ARE VISIBLE FROM THE STREET. IF THEY ARE VISIBLE THE CONTRACTOR IS REQUIRED TO INSTALL THE PROVIDED SCREENING METHOD.****

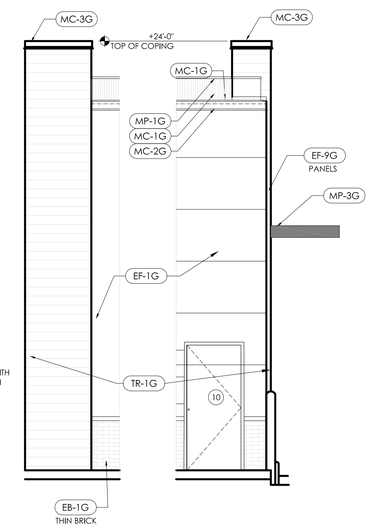
SCREENING SPECS:

V6JN3 (3" blade spacing) - 66.6% free area for a 48" wide x 48" high panel with a 0.35 horizontal wind load coefficient. Weight: 4.11 lbs per sq ft of louver face area.




2 DRIVE THROUGH ELEVATION

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




5 DRIVE THROUGH SIDE ELEVATION

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

6 DRIVE THROUGH SIDE ELEVATION

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

| No. | Date | By | Notes |
|---|---|---|---|
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Checked: SB

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AZIZ S. BOU-MARON REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

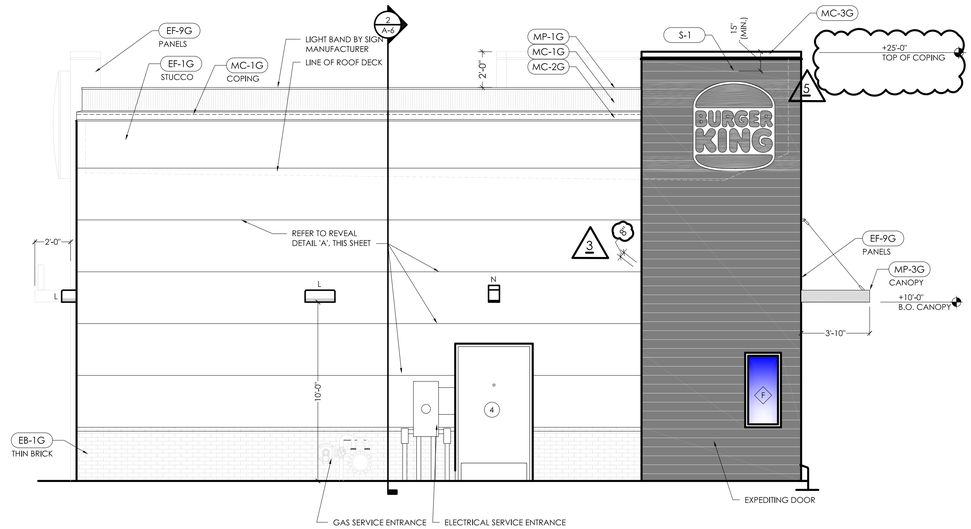
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
EXTERIOR ELEVATIONS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

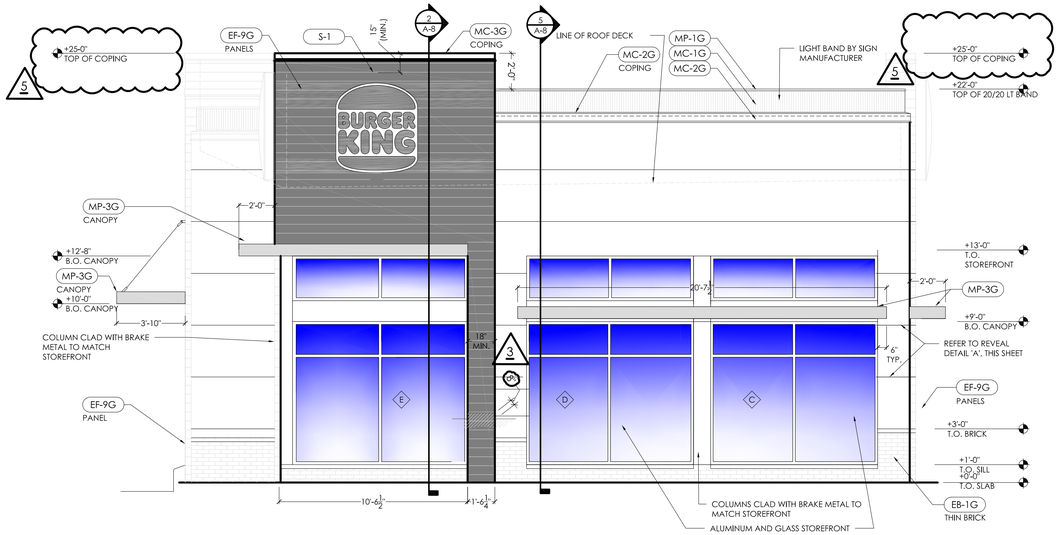
JOB # TG-21668

SHEET A-2



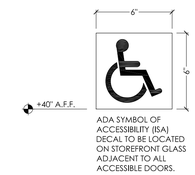

4 REAR ELEVATION

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

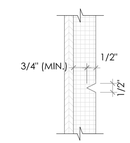



3 FRONT ELEVATION

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




A




B EFIS HORIZ. REVEALS

SCALE: NO SCALE

## FACADE CALCULATIONS

| | |
|---|---|
| 1. REAR FACADE<br>TOTAL FACADE SQFT: | 900 SQFT |
| GLAZING: | 9 SQFT / 1% |
| TOWER: | 215 SQFT / 24% |
| BRANDING: | 70 SQFT / 8% |
| **TOTAL %:** | **33%** |
| **REQUIRED %:** | **33%** |
| 2. FRONT FACADE<br>TOTAL FACADE SQFT: | 814 SQFT |
| GLAZING: | 300 SQFT / 36% |
| TOWER: | 295 SQFT / 36% |
| BRANDING: | 57 SQFT / 7% |
| **TOTAL %:** | **79%** |
| **REQUIRED %:** | **33%** |

3

## MECHANICAL SCREENING

****CONTRACTOR TO FIELD VERIFY IF HVAC UNITS ARE VISIBLE FROM THE STREET. IF THEY ARE VISIBLE THE CONTRACTOR IS REQUIRED TO INSTALL THE PROVIDED SCREENING METHOD.****

SCREENING SPECS:

V6JN3 (3" blade spacing) - 66.6% free area for a 48" wide x 48" high panel with a 0.35 horizontal wind load coefficient. Weight: 4.11 lbs per sq ft of louver face area.

4

| No. | Date | By | Notes |
|---|---|---|---|
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BURGER KING CORPORATION

TGi TECHNICAL GROUP, inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P: (248) 426-0000 F: (248) 426-7000

AZZ S. BOU-MARO
REGISTERED
No. 910061
STATE OF INDIANA
PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
EXTERIOR ELEVATIONS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

SHEET
A-2.1

## BURGER KING - 20/20 GARDEN GRILL EXTERIOR

### EXTERIOR MATERIALS & FINISH SCHEDULE (not all specs are used on every project)

02/05/21

| CODE | MATERIAL | LOCATION | MANUFACTURER | DESCRIPTION | | | ADDITIONAL INFORMATION |
|---|---|---|---|---|---|---|---|
| | | | | PRODUCT | COLOR | DIMENSION | |
| EB-1G | EXTERIOR BRICK | GENERAL | EVOLUTION BRICK | MOD / QS TUMBLED (FULL BRICK) | OLDE HILLSBORO | | CONTACT: GABE POWERS (502) 558-4612<br>**NOTE: USE WITH EGR-3G** |
| | | | | (THIN BRICK) | SIERRA TUMBLED | | |
| | | | PINE HALL BRICK | FACE BRICK | OLD IRVINGTON O/S | | CONTACT: THERESA BEANE (800) 334-8689 - tbeane@pinehallbrick.com<br>**NOTE: USE WITH EGR-3G** |
| | | | H.C. MUDDOX BRICK | THIN BRICK | BK WEST COAST BLEND | | CONTACT: ERIN LYNCH (916) 206-7831<br>**NOTE: USE WITH EGR-3G** |
| EB-1AG (ALTERNATE FOR EB-1G) | EXTERIOR FINISH FIBER CEMENT BRICK PANELS | GENERAL | NICHIHA FIBER CEMENT | NICHIHA CANYON BRICK PANELS | "SHALE BROWN" - STAGGERED JOINTS - UNPAINTED IF NO OTHER BRICK IS PRESENT.<br>(ON REMODELS, IF THERE IS ANY EXISTING BRICK ON THE BUILDING, THE EXISTING BRICK AND THE NICHIHA BRICK MUST BE PAINTED TO MATCH EP-4G) | 18" X 6' | CONTACT NICHIHA CUSTOMER SERVICE (770) 805-9466<br>BK@NICHIHA.COM<br>**INSTALL PER MANUFACTURER'S SPECIFICATIONS**<br>**VERTICAL APPLICATIONS ONLY (NOT FOR USE ON SOFFITS)** |
| ECT-1G | EXTERIOR CERAMIC TILE | ACCENT AT BUILDING FRONT | GRANITI GIANDRE / EUROWEST | SENSIBLE STONE ED5052 | "RED NATURAL"<br>STACKED BOND PATTERN | 12" X 24" | CONTACT: JOY DETER AT EUROWEST (714) 309-9551<br>OR JOY KLEIN (813) 334-3302<br>jklein@transamerica.com<br>**NOTE: USE WITH EGR-4G** |
| ECT-18G | EXTERIOR CERAMIC TILE | INLINE RESTAURANTS ONLY | GRANITI GIANDRE / EUROWEST | ROVERE ANTICO LEGNI HIGH TECH | PAR 15334 "ROVERE"<br>STACKED BOND PATTERN | 6" X 36" | CONTACT: JOY DETER AT EUROWEST (714) 309-9551<br>OR JOY KLEIN (813) 334-3302<br>jklein@transamerica.com<br>**NOTE: USE WITH EGR-9G** |
| EF-1G | EXTERIOR FINISH - STUCCO, STO, FIBER CEMENT SIDING PANELS | GENERAL | STO OR APPROVED EQUAL | STO POWERWALL STUCCO SYSTEM<br>TEXTURE: FINE SAND<br>OR STO THERM CI EIFS SYSTEM | COLOR TO MATCH EP-2G<br>PPG "DESERT DUNE" | | CONTACT: TIM SALERNO AT STO CORP (407) 466-5371 |
| | | | NICHIHA FIBER CEMENT | NICHIHA TUFFBLOCK | PREPAINTED TO MATCH EP-2G - PPG "DESERT DUNE"<br>STACKED BOND PATTERN | 18" X 6' | CONTACT NICHIHA CUSTOMER SERVICE (770) 805-9466<br>BK@NICHIHA.COM<br>**INSTALL PER MANUFACTURER'S SPECIFICATIONS**<br>**VERTICAL APPLICATIONS ONLY (NOT FOR USE ON SOFFITS)** |
| EF-4G | EXTERIOR FINISH STUCCO | GENERAL | STO OR APPROVED EQUAL | STO POWERWALL STUCCO SYSTEM | COLOR TO MATCH EP-4G<br>PPG "GRANITE" | | CONTACT: TIM SALERNO AT STO CORP (407) 466-5371 |
| EF-8G (ALTERNATE FOR EF-9G) | EXTERIOR FINISH STONE | EXTERIOR SIGN ARCHONS | BORAL STONE PRODUCTS | COUNTRY LEDGESTONE | "ASPEN" | | CONTACT:800-255-1727<br>Susan King Susan.King@boral.com<br>culturedstone@boral.com |
| EF-9G | EXTERIOR FINISH FIBER CEMENT | EXTERIOR SIGN ARCHONS | NICHIHA FIBER CEMENT | VINTAGE WOOD EF762 | "CEDAR" | 18" X 10' | CONTACT NICHIHA CUSTOMER SERVICE (770) 805-9466<br>BK@NICHIHA.COM<br>**INSTALL PER MANUFACTURER'S SPECIFICATIONS. VERTICAL SEAMS SHALL BE MINIMIZED. ALL SPANS OF 10' OR MORE SHALL HAVE VERTICAL SEAMS ALIGNED IN THE CENTER OF THE ARCHON. SEAMS TO BE CAULKED WITH EC-1G OR USE "H-MOLD" FACTORY TRIMS. ALL TRIMS SHALL BE FACTORY PAINTED TO MATCH PANELS.**<br>**VERTICAL APPLICATIONS ONLY (NOT FOR USE ON SOFFITS)** |
| TR-1G | ALUMINUM TRIMS | | | | | | |
| EC-1G | EXTERIOR CAULK | | ADSEAL PRODUCTS | ADSEAL 458-63 | "VINTAGE WOOD CEDAR" | | CONTACT: MATT KLINGE AT ADFAST (314) 753-0964<br>matt.klinge@adfastcorp.com<br>**NOTE: USE WITH EF-9G** |
| EP-2G | EXTERIOR PAINT | EXTERIOR GENERAL | PPG | **PRIMER:** 17-921<br>**PAINT:** 6-2045XI | "DESERT DUNE" 1023-4, former "TANNERS TAUPE"<br>PPG1023-4 | | CONTACT: KEVIN LASTACY @ PPG<br>Corporate National Accounts Manager<br>(616) 335-3259<br>klastacy@ppg.com |
| EP-4G | EXTERIOR PAINT | EXTERIOR WAINSCOT | | **PRIMER:** 17-921<br>**PAINT:** 6-2045XI | "GRANITE" 1022-6 , former "MONTERREY CLIFFS"<br>10YY 14/080 | | |
| EP-6G | EXTERIOR PAINT | LOGO SIGN CABINETS & BURGER KING CHANNEL LETTER CABINETS | | **PRIMER:** 6-212<br>**PAINT:** 6-230 | "STEPPING STONE" 1010-4 , former "BURGER KING SILVER"<br>Custom Formula | | **NOTE: FOR REMODELS ONLY**<br>**NOT FOR USE ON ROOFS.**<br>SEE EP-6AG & EP-6BG |
| EP-6AG | EXTERIOR PAINT | EXISTING MANSARD ROOFS, SHINGLES & BARREL TILE | | **PRIMER:** 17-921<br>**PAINT:** 90-1110 | "DOVER GRAY" 1001-1 , former "GRYMMYS GREY"<br>00NN 20/000 | | **NOTE: BY EXCEPTION FOR REMODELS ONLY** |
| EP-6BG | EXTERIOR PAINT | EXISTING STANDING SEAM METAL ROOF | | **PRIMER:** 90-712<br>**PAINT:** 90-1110 | "GRAY STONE" 1009-4 , former "MARCH WIND"<br>Custom Formula | | **NOTE: BY EXCEPTION FOR REMODELS ONLY** |
| EP-8BG | EXTERIOR PAINT | METAL COPING AT ARCHON TOWERS | | **PRIMER:** 17-921<br>**PAINT:** 6-2045XI | "CARAVEL BROWN" 1079-6 , former "CEDAR"<br>Custom Formula | | |
| EXT-1G | EXTERIOR PAINT | POLES & POLE SIGN | | **PRIMER:** 90-712<br>**PAINT:** 90-353 | "BLACK" | | |
| EXT-2G | EXTERIOR PAINT | SIGNS | | **PRIMER:** 90-712<br>**PAINT:** 90-375 | Tint to match<br>PPG 1006-6 "DECONSTRUCTION" | | |
| EP-2G | EXTERIOR PAINT | EXTERIOR GENERAL | SHERWIN-WILLIAMS | **PRIMER:**<br>Loxon Concrete & Masonry A24W300<br>**PAINT:**<br>Superpaint Ext Satin A89 Series<br>Satin | "TAUPE TONE"<br>SW 7633 | | Contact: GLENN REMLER, ARCHITECTURAL ACCOUNT EXECUTIVE<br>phone: (954) 547-1217<br>email: Glenn.J.Remler@Sherwin.com |
| EP-4G | EXTERIOR PAINT | EXTERIOR WAINSCOT | | **PRIMER:**<br>Loxon Concrete & Masonry A24W300<br>**PAINT:**<br>Superpaint Ext Satin A89 Series<br>Satin | "HOMESTEAD BROWN"<br>SW 7515 | | |
| EP-6G | EXTERIOR PAINT | LOGO SIGN CABINETS & BURGER KING CHANNEL LETTER CABINETS | | **PRIMER:**<br>Kem Bond HS B50A28<br>**PAINT:**<br>Silver Brite B59S11 | FACTORY FINISH SILVER | | **NOTE: FOR REMODELS ONLY**<br>**NOT FOR USE ON ROOFS.** |
| EP-6AG | EXTERIOR PAINT | EXISTING MANSARD ROOFS, SHINGLES & BARREL TILE | | **PRIMER:**<br>Pro Industrial Pro-Cryl Primer B66-310<br>**PAINT:**<br>Pro Industrial High Performance Acrylic B66-660<br>Eggshell | "WESTCHESTER GRAY"<br>SW 2849 | | **NOTE: BY EXCEPTION FOR REMODELS ONLY** |
| EP-6BG | EXTERIOR PAINT | EXISTING STANDING SEAM METAL ROOF | | **PRIMER:**<br>Pro Industrial Pro-Cryl Primer B66-310<br>**PAINT:**<br>Pro Industrial High Performance Acrylic B66-660<br>Eggshell | "MARCH WIND"<br>Custom Formula | | **NOTE: BY EXCEPTION FOR REMODELS ONLY** |
| EP-8G | EXTERIOR PAINT | METAL COPING AT ARCHON TOWERS | | **PRIMER:**<br>Pro Industrial Pro-Cryl Primer B66-310<br>**PAINT:**<br>Pro Industrial High Performance Acrylic B66-650<br>Semi-Gloss | "CEDAR"<br>Custom Formula | | |
| EXT-1G | EXTERIOR PAINT | POLES & POLE SIGN | | **PRIMER:**<br>Pro Industrial Pro-Cryl Primer B66-310<br>**PAINT:**<br>Pro Industrial High Performance Acrylic B66-600<br>Gloss | FACTORY FINISH BLACK | | |
| EXT-2G | EXTERIOR PAINT | SIGNS | | **PRIMER:**<br>Pro Industrial Pro-Cryl Primer B66-310<br>**PAINT:**<br>Pro Industrial High Performance Acrylic B66-600<br>Gloss | FACTORY FINISH TO MATCH<br>SW 6075 "GARRET GRAY" | | |
| EGR-3G | GROUT | BRICK | MAPEI | | #5 "CHAMOIS" | | **NOTE: USE WITH EB-1G** |
| EGR-4G | GROUT | CERAMIC TILE | CUSTOM BUILDING PRODUCTS | POLYBLEND SANDED | #335 "WINTER GRAY" | | **NOTE: USE WITH ECT-1G**<br>***** FOR SETTING MATERIALS USE COMPLETE CONTACT RAPID SET**<br>***** SEAL GROUT WITH AQUAMIX SEALERS CHOICE GOLD** |
| EGR-9G | GROUT | INLINE RESTAURANTS ONLY CERAMIC TILE | LATICRETE | POLYBLEND SANDED | #66 "CHESTNUT BROWN" | | **NOTE: USE WITH ECT-18G**<br>***** CONTRACTOR TO ALLOW 1/16" MAX FOR GROUT JOINT**<br>***** FOR SETTING MATERIALS USE COMPLETE CONTACT RAPID SET**<br>***** SEAL GROUT WITH AQUAMIX SEALERS CHOICE GOLD**<br>Contact: Kirby Davis at Laticrete (203) 671-7210 |
| MC-1G | METAL COPING | TOP OF LIGHT BAND WALL CAP | W.P. HICKMAN SYSTEMS, INC. | PERMA SNAP PLUS | A-30 "SILVERSMITH" | | CONTACT: W.P. HICKMAN COMPANY (828)676-1700 - WWW.WPH.COM |
| MC-2G | METAL COPING | BELOW LIGHT BAND | | PERMA SNAP PLUS | FACTORY FINISH TO MATCH EP-2G<br>PPG "TANNERS TAUPE" | | |
| MC-3G | METAL COPING | TOP OF ARCHON | | PERMA SNAP PLUS | TO BE PAINTED TO MATCH EP-8G<br>PPG "CEDAR" | | |
| MP-1G | | PARAPET LIGHT BAND | LEKTRON<br>*SEE APPROVED SIGN SUPPLIERS | LED LIGHT BAND | | *SEE PLANS | PRODUCT INFORMATION: KEVIN RUBOTTOM AT LEKTRON<br>(800) 634-4059 OR (918) 622-4978<br>Email: KRubottom@lektroninc.com |
| MP-3G | METAL CANOPY | ABOVE DOORS AND WINDOWS | *SEE APPROVED CANOPY SUPPLIERS | CUSTOM METAL CANOPY | COLOR: CLEAR ANODIZED | *SEE PLANS | |
| | | | | | | | |
| | | | | | | | |

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
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BURGER KING CORPORATION

TECHNICAL GROUP, inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P:(248) 426-8000 F:(248) 426-7004

10.06.2022

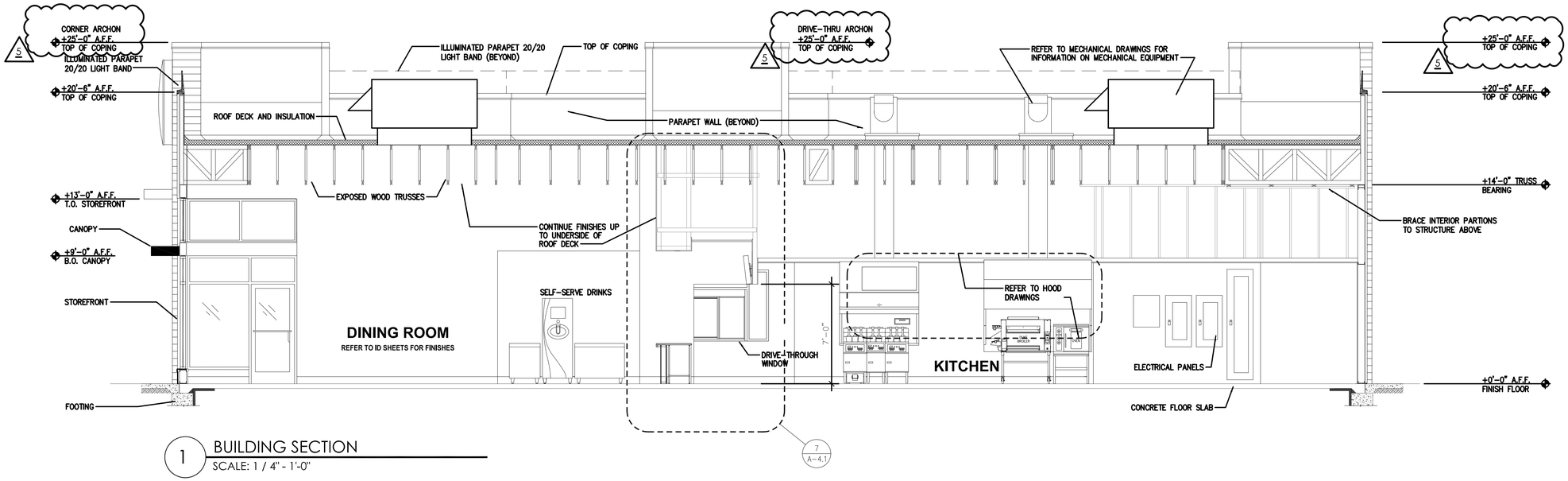
PROJECT
BURGER KING
1440 NAPPANEE ST,
ELKHART, IN 46514

SHEET TITLE
EXTERIOR FINISH SCHEDULE

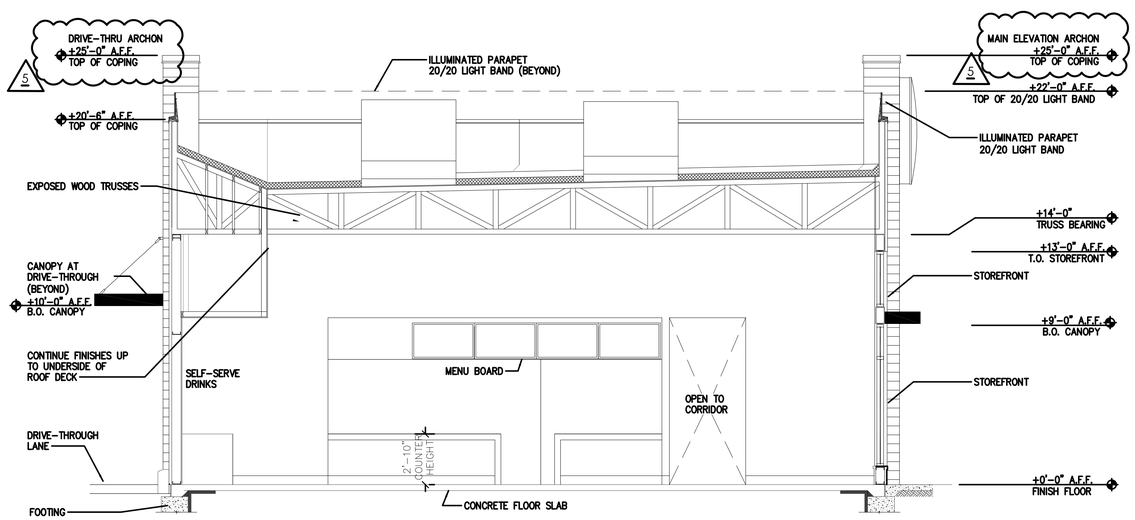
DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET A-2.2




1 BUILDING SECTION
SCALE: 1 / 4" - 1'-0"
EXTERIOR/INTERIOR FINISHES NOT SHOWN




2 BUILDING SECTION
SCALE: 1 / 4" - 1'-0"
EXTERIOR/INTERIOR FINISHES NOT SHOWN

| No. | Date | By | Notes |
|---|---|---|---|
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| 6 | 09.06.2022 | JB | INQUOT SUBMITTAL |

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Checked: SB

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BURGER KING CORPORATION

TECHNICAL GROUP, Inc.
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FARMINGTON HILLS, MI 48331
P: (248) 426-8000 F: (248) 426-7004

AZIZ S. BOU-MANSOUR
REGISTERED
No. 910381
STATE OF INDIANA
PROFESSIONAL ENGINEER

10.06.2022

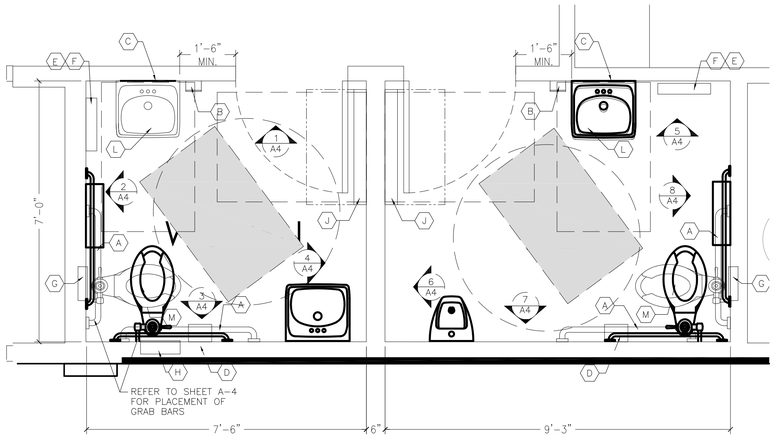
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
BUILDING SECTIONS

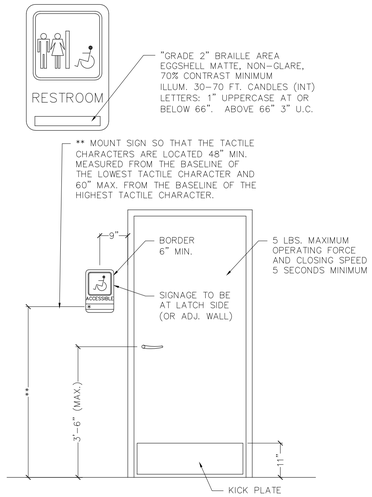
DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

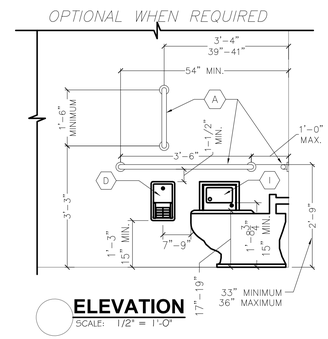
SHEET
A-3




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




RESTROOM SIGN DETAIL
SCALE: 1/2" = 1'-0"




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

# GENERAL NOTES:

A. FOR INTERIOR FINISHES, REFER TO INTERIOR DECOR SHEETS.
B. PLUMBING FIXTURES TO BE PROVIDED BY THE GENERAL CONTRACTOR.
C. ALL PLUMBING FIXTURES, FAUCETS AND ACCESSORIES TO BE ADA COMPLIANT
D. ALL EXPOSED PIPING UNDER LAVATORIES TO BE INSULATED TO PROTECT FROM CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

# RESTROOM / KITCHEN ACCESSORIES:

(A) GRAB BAR: BOBRICK 250 LBF. MINIMUM
33" MIN. TO 36" MAX. HEIGHT TO THE TOP OF THE GRIPPING SURFACE.
PROVIDE THE REQUIRED QUANTITY AND LENGTH AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE GOVERNING CODE. THE BAR SHALL BE 1-1/2" IN DIAMETER AND MOUNTED WITH 1-1/2" CLEARANCE FROM THE WALL.

(B) WALL MOUNTED SOAP DISPENSER AND HAND SANITIZER DISPENSER (36" MAX. HEIGHT) SUPPLIED BY "ECOLAB" AND INSTALLED BY THE G.C.
NOTE: SOAP AND HAND SANITIZER DISPENSERS TO BE PROVIDED AT EACH KITCHEN HANDSINK.

(C) MIRROR: (BOTTOM OF REFLECTIVE SURFACE AT 40" MAXIMUM HEIGHT)
MODEL B-165-1836 (18"x36") STAINLESS STEEL CHANNEL FRAME MIRROR WITH THEFT RESISTANT SCREWS BY BOBRICK OR APPROVED EQUIVALENT.

(D) TOILET PAPER HOLDER:
OPTION 1: BOBRICK B-3888, SUPPLIER – HAINES JONES & CADBURY
OPTION 2: 9" TWIN JUMBO MODEL #58250 BY NORTH AMERICAN CORPORATION.

(E) PAPER WASTE RECEPTACLE: (REQUIRED) MODEL B-3644 AS MANUFACTURED BY BOBRICK OR APPROVED EQUIVALENT. (ROUGH OPENING 17-3/16"W x 30-5/8"H x 8-1/8"D MIN.)

(F) ELECTRIC HAND DRYER: ASI ROVAL SERIES AUTOMATIC TOUCH-FREE SENSOR HAND DRYER.MODEL: ASI ROVAL 20199
NOTE: HAND DRYER TO BE INSTALLED AT A MAXIMUM HEIGHT OF 48" FROM FINISH FLOOR ELEVATION TO TOP OF SENSOR OR PER ADA REQUIREMENTS.
NOTE: PROVIDE PAPER TOWEL DISPENSER "SAN JAMAR" MODEL #T-1490BK AT EACH HAND SINK IN KITCHEN.

(G) TOILET SEAT COVER DISPENSER:
BOBRICK B-3013, SUPPLIER – HAINES JONES & CADBURY

(H) URINAL SCREEN: (OPTION 1) NEVAMAR WK0017T COLOR: VENERABLE OLD OAK
(OPTION 2) BOBRICK 1080/1180 DURALINE SERIES #EO-09 COLOR: BLACK

(I) SANITARY NAPKIN DISPOSAL: BOBRICK B-353, RECESSED.

(J) COAT HOOK: BOBRICK MODEL B-6717 TO BE MOUNTED ON INSIDE OF EACH RESTROOM DOOR FOR SINGLE OCCUPANCE RESTROOMS AND EACH RESTROOM STALL DOOR FOR MULTIPLE OCCUPANCY RESTROOMS. MOUNT AT 38"-40" A.F.F. FOR ADA ACCESSIBLE LOCATIONS AND AT 48" A.F.F. MAXIMUM FOR NON-ADA ACCESSIBLE LOCATIONS.

(K) BABY CHANGING STATION: KOALA KARE #KB110-SSWM (HORIZONTAL) WALL MOUNTED OR #KB200-01 (HORIZONTAL) WALL MOUNTED IN GREY.
SANITARY BED LINERS FOR BABY CHANGING STATION: KOALA KARE #KB150-99
NOTE:
CHANGING STATION OPTION TO COMPLY WITH ALL ACCESSIBILITY REQUIREMENTS. PROVIDE BLOCKING AS REQUIRED FOR STATION SUPPORT.

(L) LAVATORY FAUCET: WATERFRONT MODEL: 300988 SINGLE LEVER HANDLE LAVATORY FAUCET, CHROME-PLATED FINISH

(M) WATER CLOSET:
AMERICAN STANDARD – MADERA FLOWISE 15" HEIGHT ELONGATED FLUSHOMETER TOILET, SUPPLIER – HAINES JONES & CADBURY

(N) WATER CLOSET– ADA:
AMERICAN STANDARD – MADERA FLOWISE 16 1/2" HEIGHT 1.6 GPF FLUSHOMETER TOILET SYSTEM, SUPPLIER – HAINES JONES & CADBURY

(O) URINAL– ADA:
AMERICAN STANDARD – WASHBROOK FLOWISE UNIVERSAL URINAL – HAINES JONES & CADBURY

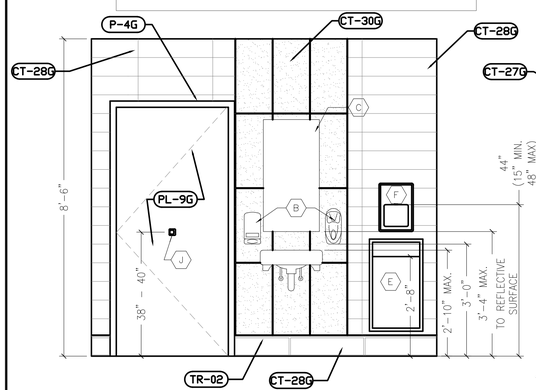
(P) LAVATORY:
CUSTOM THROUGH SINK "GLACIER WHITE"
COMMERCIAL INTERIORS MANUFACTURING (CIM) OR HAINES JONES & CADBURY

OPTIONAL:

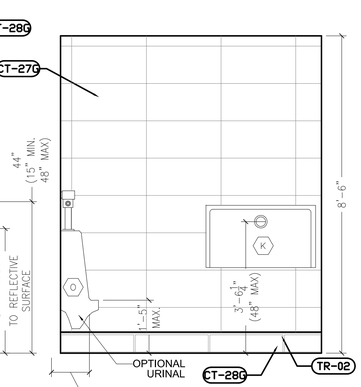
TOILET STALL PARTITIONS: NEVAMAR WK0017T COLOR: VENERABLE OLD OAK

(OPTIONAL) BOBRICK 1080/1180 DURALINE SERIES #EO-09 COLOR: BLACK OR PHENOLIC URINAL SCREEN AND TOILET PARTITIONS MAY BE USED AS AN ALTERNATE TO NEVAMAR SPECIFICATION.

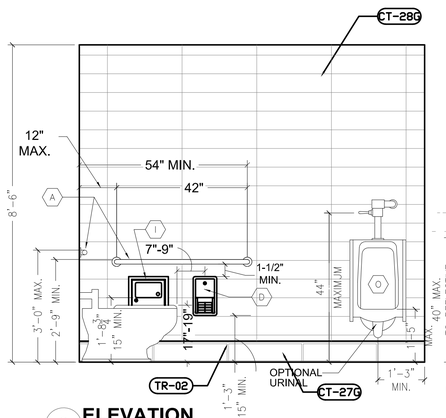
NOTE:
REFER TO 20/20 GARDEN GRILL DECOR GUIDELINES FOUND AT DESIGNWITHBK.COM (INTERIOR DESIGN GUIDELINES) FOR REQUIRED RESTROOM GRAPHICS.



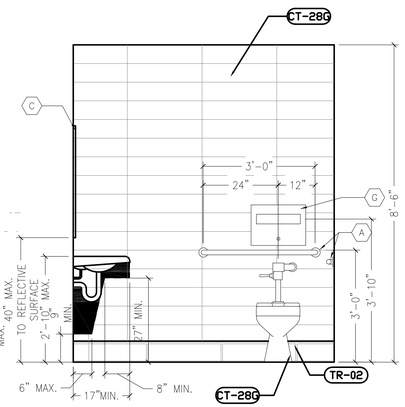

1 ELEVATION
SCALE: 1/2" = 1'-0"




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




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




4 ELEVATION
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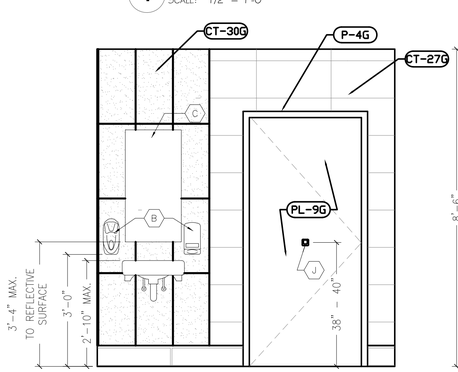


5 ELEVATION
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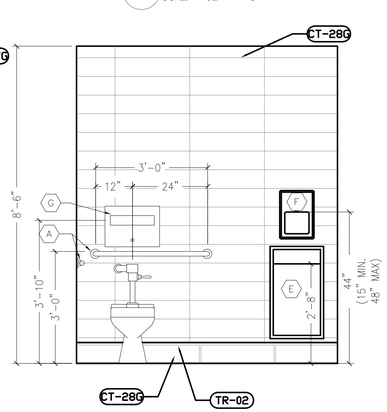
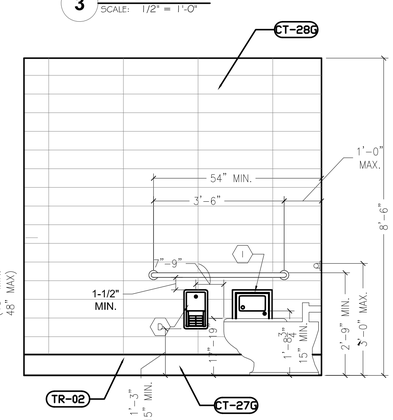
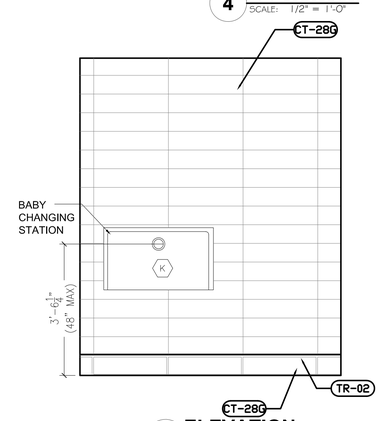



6 ELEVATION
SCALE: 1/2" = 1'-0"




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




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

| No. | Date | By | Notes |
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| 5 | 09.06.2022 | JB | INDOT SUBMITTAL |
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BURGER KING CORPORATION

TECHNICAL GROUP, Inc
27800 MACGRIFFY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P:(248) 426-8000 F:(248) 426-7004

AZIZ S. BOU-MARONE
REGISTERED
No. 910361
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
PROPOSED RESTROOM ELEVATIONS AND DETAILS

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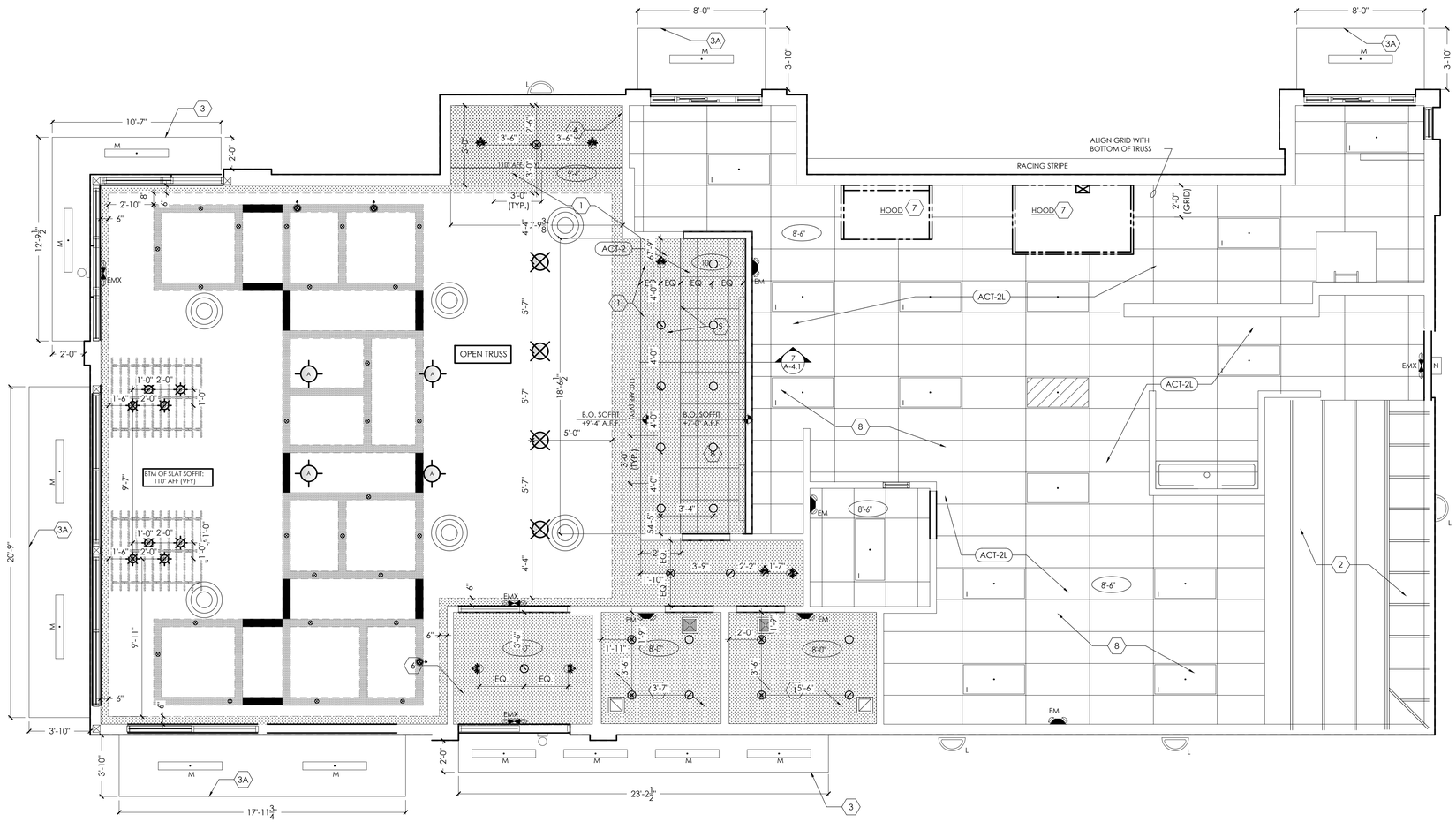
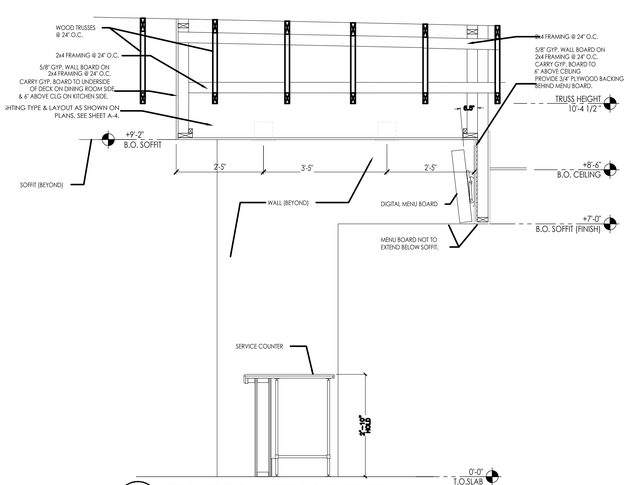
JOB #
TG-21668

SHEET
A-3.1

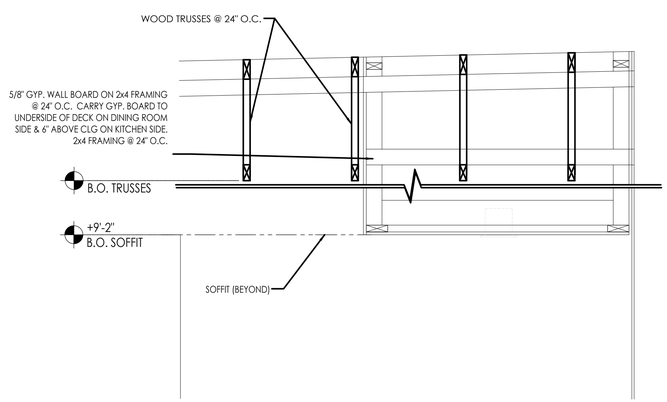



1 REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

N




2 FRONT COUNTER SOFFIT DETAIL
SCALE: 1/2" = 1'-0"




3 DRINK STATION SOFFIT DETAIL
SCALE: 1/2" = 1'-0"

NOTE:

DINING ROOMS ARE DESIGNED TO A 35 - 40 FOOT-CANDLE LEVEL. KITCHENS ARE DESIGNED TO 70 FOOT-CANDLE LEVEL. RESTROOMS ARE DESIGNED TO 70 FOOT-CANDLE. FOR ADDITIONAL INFORMATION ON LIGHTING REQUIREMENTS REFER TO BURGER KING LIGHTING STANDARDS POSTED @ DESIGNWITHBK.COM/COMMON DOCUMENTS.

3

## CEILING SPECIFICATIONS

| | |
|---|---|
| ACT-1G | CORTEGA #770 |
| LOCATION: | DINING |
| MANUFACTURER: | ARMSTRONG |
| COLOR: | SEPIA |
| GRID: | 2X2 ANGLED TEGULAR 15/16 IN SEPIA |
| DIMENSION: | 2'X2'X3/4" |
| CONTACT: | LOUIS J. JOHN-NTL ACCOUNTS MANAGER (407) 697-6768 LJJOHN@ARMSTRONG.COM |
| ACT-2G | KITECHENZONE #BP672 |
| LOCATION: | SERVICE AISLE/BACK OF HOUSE |
| MANUFACTURER: | ARMSTRONG |
| COLOR: | WHITE |
| GRID: | PRELUDE 15/16" EXPOSED TEE GRID IN WHITE |
| DIMENSION: | 2'X4'X1/2" (BOH) 2'X2'X1/2" (SERVICE ISLE) |
| CONTACT: | ARMSTRONG STRATEGIC ACCOUNTS (800.442.4212) |
| P-3G | |
| LOCATION: | FACE OF SOFFIT |
| MANUFACTURER: | PPG 10YY 30/106 EGGSHELL |
| PRIMER: | PPG 6-2 |
| COLOR: | STONESMITH |
| P-5G | GYP. CEILINGS |
| LOCATION: | CORRIDOR SOFFIT AND RESTROOMS |
| MANUFACTURER: | PPG 6-441 EGGSHELL |
| COLOR: | WHITE ON WHITE |
| P-6G | GYP. CEILINGS |
| LOCATION: | OPEN CEILING |
| MANUFACTURER: | PPG 6-417 SPEEDHIDE ZERO INT. VOC LATEX EGGSHELL |
| COLOR: | CABIN FEVER |
| P-15G | |
| LOCATION: | MAIN WALLS AND SOFFITS |
| MANUFACTURER: | PPG 6-411 |
| PRIMER: | PPG 6-2 |
| COLOR: | ASHEN PPG 1023-3 |
| SL-1G | TRELLIS SOFFIT |
| LOCATION: | DINING ROOM TRELLIS |
| MANUFACTURER: | OMNOVA SOLUTIONS |
| PRODUCT: | SURF(X) 3D LAMINATES ON SUNTRAIT |
| COLOR: | ALMOND CHERRY |
| CONTACT: | DUSTIN SMITH (314)489-2374 DUSTIN.SMITH@OMNOVA.COM |

## GENERAL NOTES:

A. ALL DIMENSIONS SHOWN ON REFLECTED CEILING PLAN ARE FROM FACE OF WALL FINISH UNLESS NOTED OTHERWISE.
B. THE REFERENCE HEIGHTS INDICATED ON PLAN ARE FROM FINISH FLOOR (F.F.)
C. GENERAL CONTRACTOR TO COORDINATE DINING ROOM LIGHTING WITH APPROVED INTERIOR DECOR DRAWINGS.
D. CONTRACTOR SHALL VERIFY FIXTURE QUANTITIES AND ALSO MAKE PROPER ADJUSTMENTS FOR ANY CHANGES IN PLAN DUE TO ADDITIONAL REQUIREMENTS, LOCAL CODES, ETC.
E. FOR H.V.A.C. PLAN, SECTIONS, DUCT LOCATIONS, SUPPLY AND RETURN GRILLE SIZES AND ADDITIONAL INFORMATION, REFERENCE SHEET M-1.
F. ALL FIXTURES SHALL BE LOCATED IN THE CENTER OF CEILING TILES UNLESS NOTED OTHERWISE.
G. REFERENCE SHEET E-1 FOR LIGHTING LAYOUT REQUIREMENTS AND ADDITIONAL INFORMATION.
H. REFERENCE INTERIOR DECOR SHEETS FOR FINISH SPECIFICATIONS.
I. CONTRACTOR TO COORDINATE PENDANT LIGHT LOCATIONS WITH DECOR SUPPLIER DRAWINGS.

## KEYED NOTES:

1. GYPSUM BOARD CEILING/SOFFIT
2. EXPOSED TRUSSES ABOVE WALK-IN BOX. REFER TO W.I.B. DRAWINGS FOR INTERIOR LIGHT FIXTURES
3. PREFABRICATED METAL CANOPY
4. STAINLESS STEEL SERVICE CHASE
5. MENU BOARD AND HEADER. REFERENCE DTL 7/A-4.1
6. SOFFIT ABOVE ENTRY.
   -CEILING PAINT TO MATCH INTERIOR CEILING IF VESTIBULE IS ENCLOSED.
   -CEILING PAINT TO BE EP-2G IF VESTIBULE IS OPEN. (REFER TO EXTERIOR FINISH SCHEDULE)
7. MECHANICAL EXHAUST HOOD ABOVE
8. SUSPENDED ACCOUSTICAL TILE CEILING. REFER TO FINISH SCHEDULE.
9. EXPOSED WOOD TRUSSES TO BE PAINTED. REFER TO ID SHEETS FOR COLOR.
10. EXPOSED PLYWOOD ROOF DECK SHEATHING REFER TO ID SHEETS FOR COLOR.

## SYMBOLS LEGEND

| SYMBOL | DESCRIPTION | |
|---|---|---|
| | SUPPLY AIR DIFFUSERS | REF. SHEET M-1 FOR SPECIFICATIONS |
| | RETURN AIR GRILLES | |
| | EXHAUST FAN GRILLES | |
| A | SINGLE PENDANT. COORDINATE LOCATION AND QUANTITY WITH DECOR SUPPLIER. | REFERENCE SHEET E-1.1 FOR SPECIFICATIONS |
| B | SINGLE PENDANT. COORDINATE LOCATION AND QUANTITY WITH DECOR SUPPLIER. | |
| C6w | 6" DIAMETER RECESSED DOWNLIGHT | |
| D6w | 6" DIAMETER ADJUSTABLE WALL WASH DOWNLIGHT | |
| E | ADJUSTABLE TRACK LIGHT | |
| F | PROFILE LIGHT | |
| G | 2" DIAMETER DOWNLIGHT | |
| G1 | 2" DIAMETER WALL WASH DOWNLIGHT | |
| I | 2x4 RECESSED FLAT LENS (NIGHT LIGHT WHEN SHOWN HATCHED) | |
| K | 12x12 RECESSED SOFFIT LIGHT | |
| L | SURFACE MOUNTED EXTERIOR WALL SCONCE (ALSO USED IN OPEN CANOPIES) | |
| M | WET LISTED 4'-0" CANOPY LIGHT (USED UNDER AWNINGS AND CLOSED CANOPIES) | |
| N | WALL MOUNTED SECURITY LIGHT | |
| EM | EMERGENCY LIGHT | |
| EMX | EXIT LIGHT | |

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AJG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

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AJIZ S. BOU-MATAR REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 N APPANEE ST.
ELKHART, IN 46514

SHEET TITLE
REFLECTED CEILING PLAN

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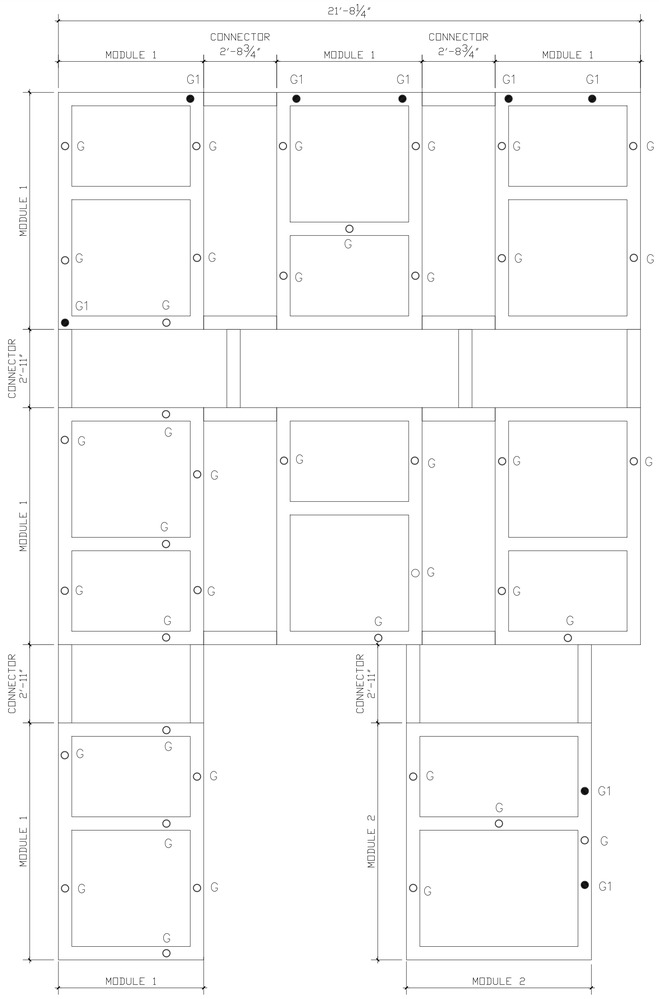
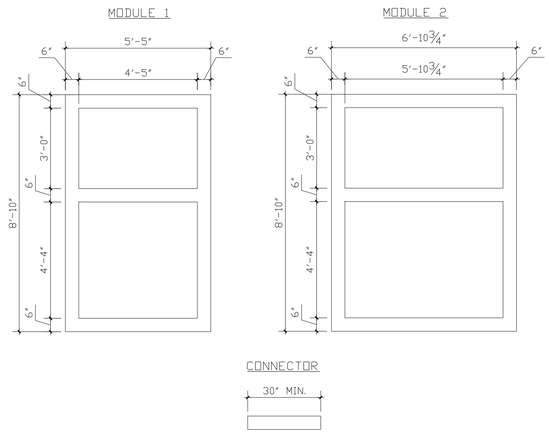
JOB #
TG-21668

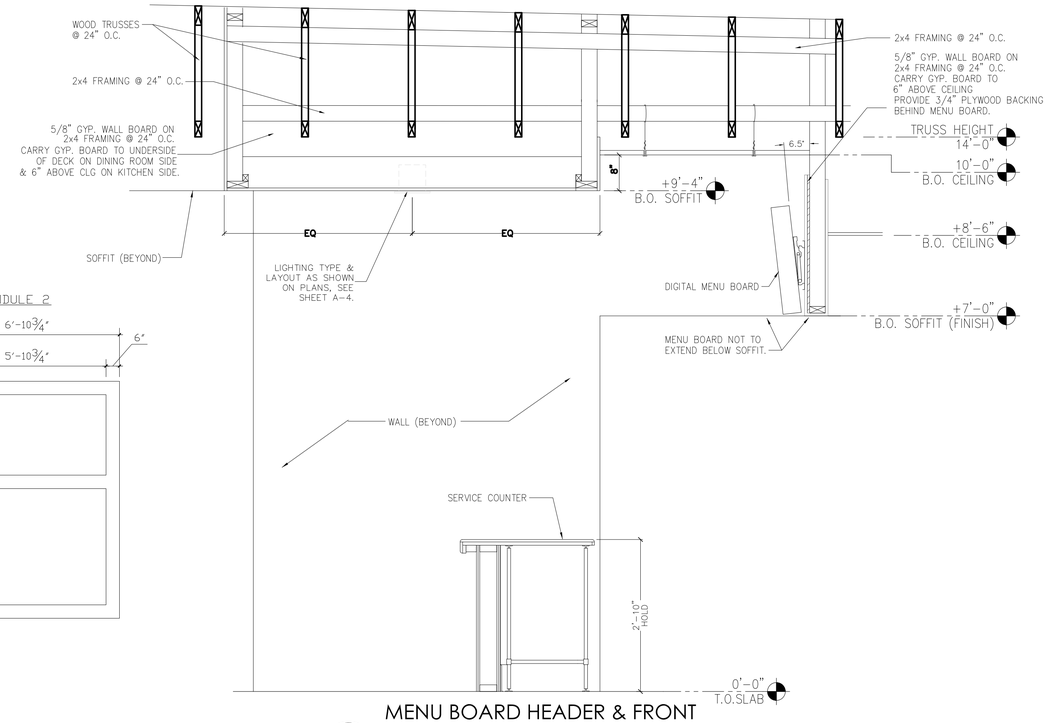
SHEET
A-4



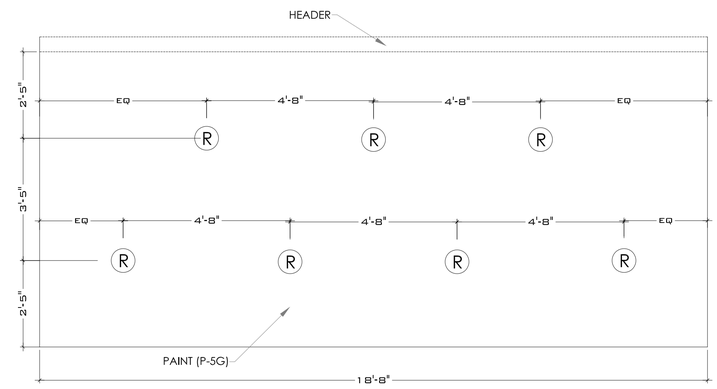




NOTES:
1. SUSPENDED TRELLIS 3D LAMINATE ON PVC BOARD. SURF (X) OMNOVA SOLUTIONS ALMOND CHERRY 12 MIL.
2. GENERAL DIMENSIONS 6"x6" SUSPENDED FROM AN OPEN TRUSS CEILING
3. SUSPENDED SYSTEM: UNISTRUT ELEMENTS AND THREADED RODS
4. FIT UNISTRUT BETWEEN JOIST SYSTEM WITH SUFFICIENT EXCESS ALLOW FOR MOVEMENT DURING INSTALLATION. PROVIDE (2) 3/8"-16 NUT AND ONE (1) WASHER (ID:0.375,OD 1.00)
5. NUMBER OF MODULES SHALL BE PER BUILDING CONDITIONS. ALL MODULES SHALL BE INTERCONNECTED
6. ADJUST CONNECTION ELEMENTS DIMENSION PER BUILDING CONDITIONS.
7. LIGHT FIXTURES SHALL BE LOCATED AT THE MODULES, NOT THE CONNECTING ELEMENTS. CONCEALED LED LIGHTS PER BURGER KING LIGHTING STANDARDS. THE MINIMUM NUMBER OF CONCEALED TRELLIS LIGHT FIXTURES SHALL COMPLY WITH BUILDING CODES AND REGULATIONS. FOR LIGHT FIXTURE TYPES REFER TO LIGHT FIXTURE SCHEDULE FOUND ON DESIGNWITHBK.COM (COMMON DOCUMENTS

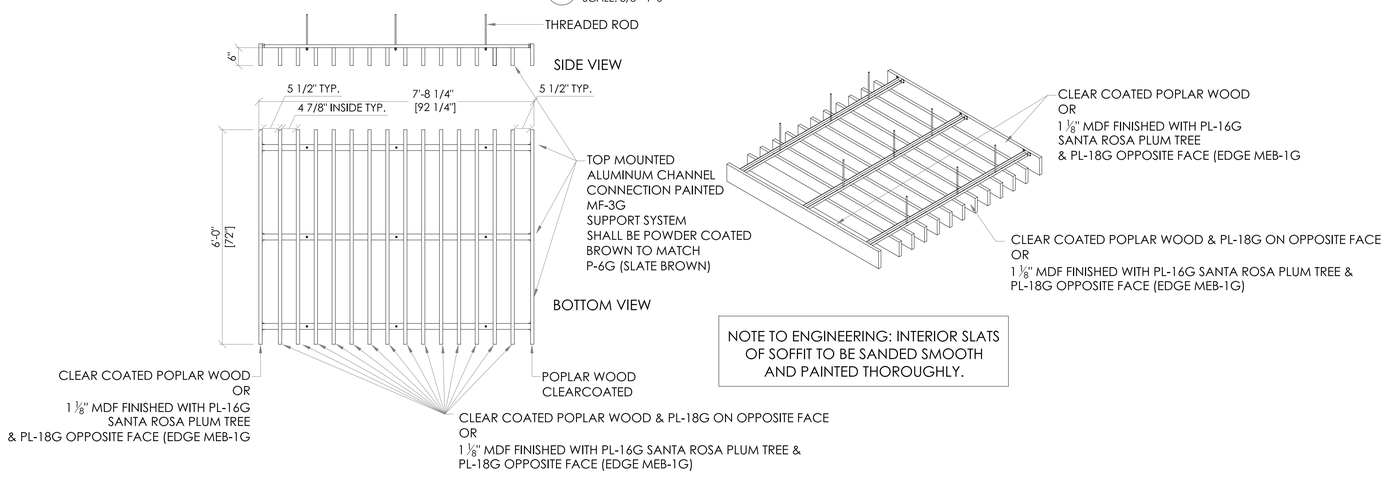
4 TRELLIS DETAILS
SCALE: 3/8"=1'-0"




7 MENU BOARD HEADER & FRONT SERVICE COUNTER SOFFIT DETAIL
SCALE: 3 / 4" - 1'-0"

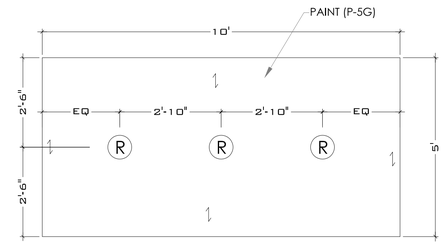



8 FRONT SERVICE COUNTER SOFFIT DETAIL
SCALE: 1/2" = 1'-0"




NOTE TO ENGINEERING: INTERIOR SLATS OF SOFFIT TO BE SANDED SMOOTH AND PAINTED THOROUGHLY.

5 PERGOLA DETAIL
SCALE: 1/2" = 1'-0"




9 BEVERAGE STATION SOFFIT DETAIL
SCALE: 1/2" = 1'-0"

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AZIZ S. BOU-MARO REGISTERED No. 910381 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
REFLECTED CEILING DETAILS

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JOB # TG-21668

SHEET A-4.1

# GENERAL ROOFING NOTES:

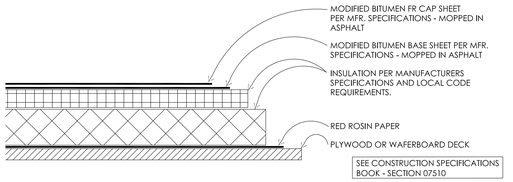
1. ROOFING SUBCONTRACTOR TO COORDINATE LOCATION OF H.V.A.C. UNITS AND ROOF TOP ACCESSORIES WITH STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR PLACEMENT AND TAPERED RIGID INSULATION BOARD LAY-OUT AND SUBSEQUENT INSTALLATION IN ORDER TO AVOID PONDING WATER CONDITIONS ATTRIBUTABLE TO BOARD LAY-OUT ISSUES.
2. ROOF SYSTEMS SPECIFIED SHALL BE APPLIED ONLY BY MANUFACTURER APPROVED APPLICATOR IN ORDER TO MEET GUARANTEE REQUIREMENTS.
3. COORDINATE LOCATION OF MECHANICAL UNITS WITH STRUCTURAL AND MECHANICAL DRAWINGS.
4. HVAC CONDENSATE LINES TO TERMINATE AT ROOF DRAIN OR AS REQUIRED BY LOCAL CODE.
5. REFER TO STRUCTURAL AND M-E-P DRAWINGS FOR ADDITIONAL INFORMATION.
6. ALL CURBS AND PIPE PENETRATIONS SHALL HAVE A MINIMUM OF 16" CLEAR FROM EACH OTHER FOR ROOF FLASHING PURPOSES. ALL EQUIPMENT SHALL HAVE A MINIMUM OF 16" CLEAR FROM ALL ADJACENT PARAPETS. ALL HVAC MOUNTED EQUIPMENT (DISCONNECT BOXES, GFCI, PIPE SUPPORTS) SHALL NOT BE CLOSER THAN 16' FROM EACH OTHER OR CURB. NO UNISTRUT PIPE SUPPORTS SHALL BE USED AS VERTICAL MEMBERS FOR MOUNTING EQUIPMENT TO ROOF SURFACE.
7. PONDING WATER IS DEFINED AS WATER THAT DOES NOT DRAIN OR DISSIPATE FROM THE ROOF WITHIN 48 HOURS AFTER PRECIPITATION.
8. CONTRACTOR SHALL "SUGAR-IN" ALL ASPHALT. BLEED-OUT ON PLIES WITH ADDITIONAL GRANULES TO MATCH EXISTING COLORATION OF THE MINERAL SURFACE CAP SHEET.
9. ALL FLASHING CEMENTS, ASPHALTS, PRODUCTS AND ACCESSORIES SHALL BE APPROVED BY ROOFING MANUFACTURER WITH THE MANUFACTURES'S BRAND. ALL ASPHALTS SHALL BE AMERICAN MANUFACTURED PRODUCTS.

# KEYED NOTES:

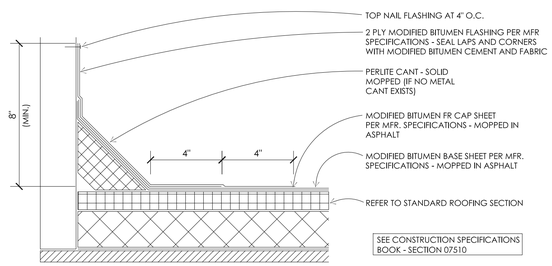
1. TWO-PLY MODIFIED BITUMEN MEMBRANE W/GLASS FIBER REINFORCEMNT. BOTTOM PLY SHALL BE UNSURFACED. TOP PLY SHALL HAVE WHITE MINERAL SURFACE.
2. ROOF ACCESS SCUTTLE. REFERENCE DETAIL. THIS SHEET.
3. PREFABRICATED METAL CANOPY. REFERENCE SHEETS A-7, A-8.
4. VENT THROUGH ROOF - PROVIDE PREFABRICATED DURO-LAST VENT FLASHING FOR ALL VENTS AND PIPE PENETRATIONS. REFERENCE DETAIL #6. THIS SHEET.
5. INSTALL MODIFIED BITUMEN SACRIFICE SHEET AS SPECIFIED AT KITCHEN EXHAUST.
6. ROOF CRICKET WITH SLOPE TO MATCH ROOF. REFER TO DETAIL #3. THIS SHEET.
7. ROOF DRAIN AND OVERFLOW ROOF SCUPPERS - REFER TO DETAILS #4 AND #7 THIS SHEET.
8. ROOFTOP AIR CONDITIONING UNIT - REFER TO MECHANICAL PLANS.
9. EXHAUST FAN - REFER TO MECHANICAL PLANS
10. ILLUMINATED PARAPET LIGHT BAND.
11. METAL COPING.
12. PVC CONDENSATE DRAIN (SIZE AS SHOWN) WITH PIPE SUPPORTS EVERY 5'-0". TERMINATE CONDENSATE DRAIN AT PRIMARY SCUPPER. REFER TO DETAIL #9, THIS SHEET FOR ADDITIONAL INFORMATION.
13. PROVIDE PITCH PAN WITH CONDUIT OVER OFFICE FOR SATELLITE DISH/ANTENNA.
14. EQUIPMENT STAND FOR WALK-IN BOX COOLER/FREEZER CONDENSERS AND ICE MACHINE CONDENSER. REFER TO EQUIPMENT STAND DETAIL #8, THIS SHEET.

# GENERAL NOTES:

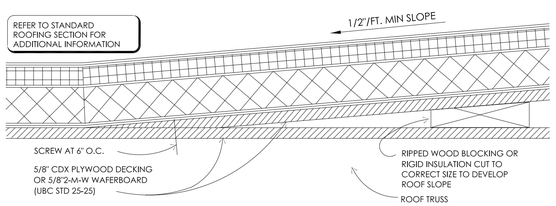
A. THE ROOF STRUCTURE SHALL NOT BE USED FOR STOCKPILING OF EQUIPMENT OR MATERIALS UNLESS APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER AND THE JOIST MANUFACTURER.
B. THE ROOFING SYSTEM SHALL BE AS PER DRAWINGS AND PER MANUFACTURERS SPECIFICATIONS.
C. COORDINATE ROOF ELEVATIONS WITH STRUCTURAL DRAWINGS. REFER TO SPECIFICATION SHEET FOR ROOF RELATED ITEMS, INCLUDING GUARANTEES, CURBS, FLASHING, ETC.



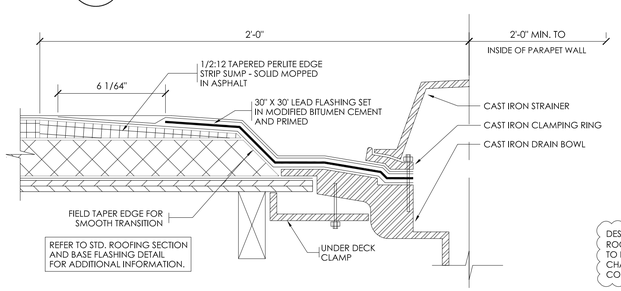

1 STANDARD ROOFING SECTION
SCALE: 3" - 1'-0"



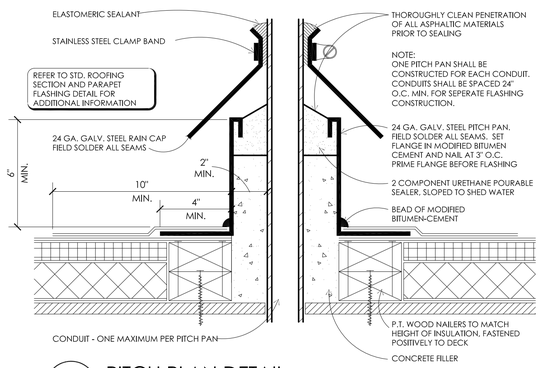

2 STANDARD BASE FLASHING CONFIGURATION
SCALE: 3" - 1'-0"



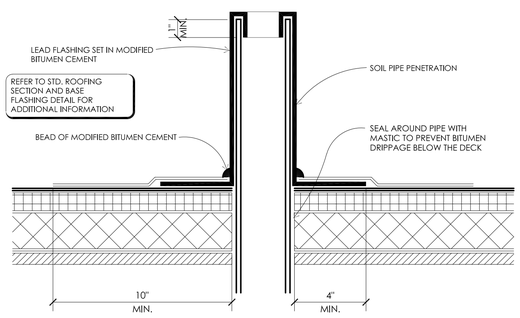

3 TYPICAL CRICKET DETAIL
SCALE: 3" - 1'-0"



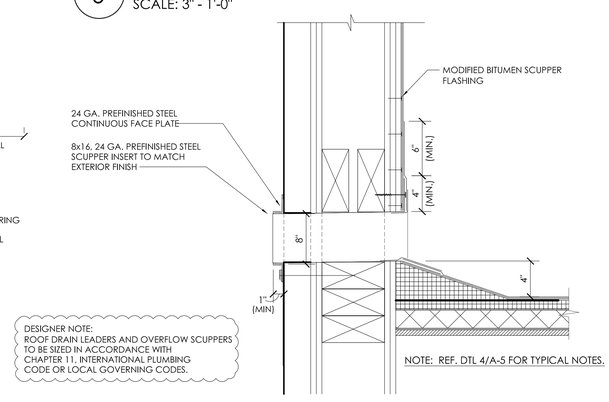

4 ROOF DRAIN DETAIL
SCALE: 3" - 1'-0"



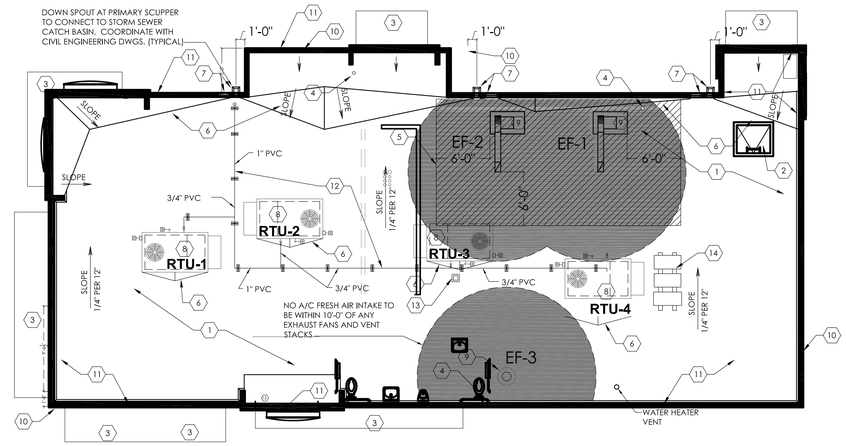

5 PITCH PLAN DETAIL
SCALE: 3" - 1'-0"




6 SOIL PIPE FLASHING DETAIL
SCALE: 3" - 1'-0"

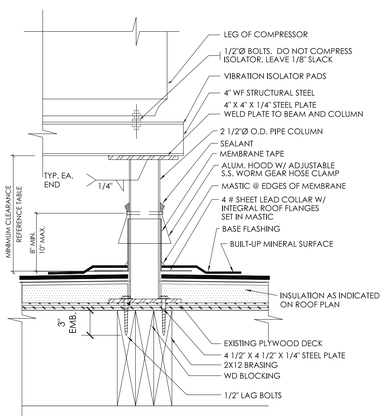



7 OVERFLOW SCUPPER DETAIL
SCALE: 3" - 1'-0"




A ROOF PLAN
SCALE: 1/8" - 1'-0"

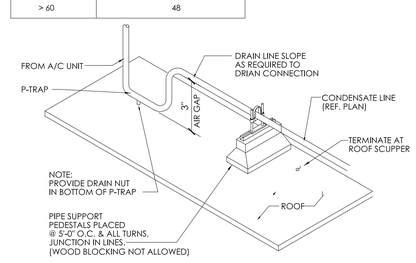
NOTE
ALL ROOFING DETAILS TO BE VERIFIED AND COORDINATED WITH MANUFACTURERS SPECIFICATIONS AND WARRANTIES.



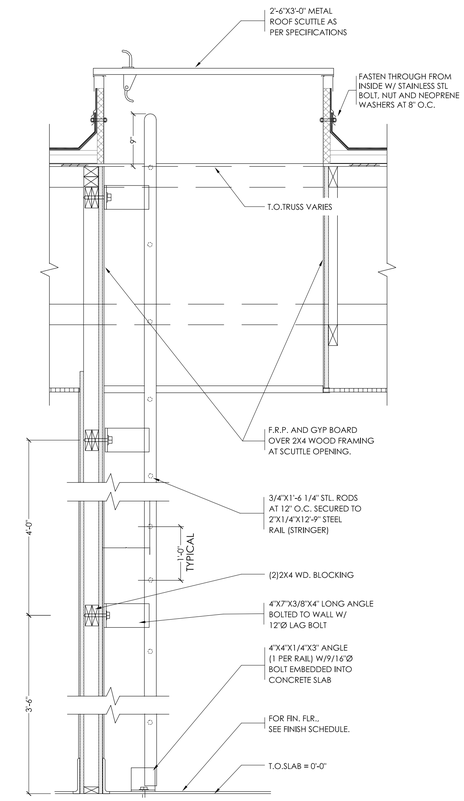

8 EQUIPMENT STAND DETAIL
SCALE: 3" - 1'-0"

VERIFY W/ EQUIPMENT SUPPLIER IF IN CONTRACT.

| CLEARANCE BELOW RAISED ROOF MOUNTED MECHANICAL UNITS (INCHES) | |
|---|---|
| WIDTH OF UNIT | MINIMUM CLEARANCE ABOVE ROOF SURFACE |
| < 24 | 14 |
| 24 < 36 | 18 |
| 36 < 48 | 24 |
| 48 < 60 | 30 |
| > 60 | 48 |




9 CONDENSATE LINE SUPPORT DETAIL
SCALE: 3" - 1'-0"




10 ROOF SCUTTLE DETAIL
SCALE: 3/4" - 1'-0"

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AZIZ S. BOU-MARON REGISTERED No. 910381 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 MAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
ROOF PLAN & DETAILS

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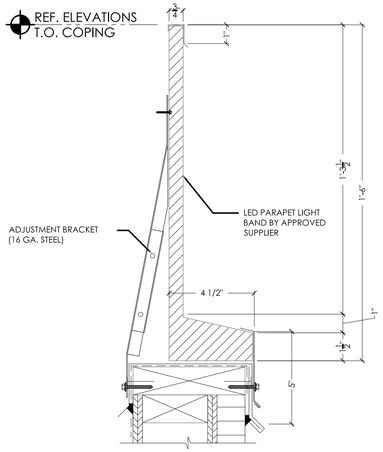
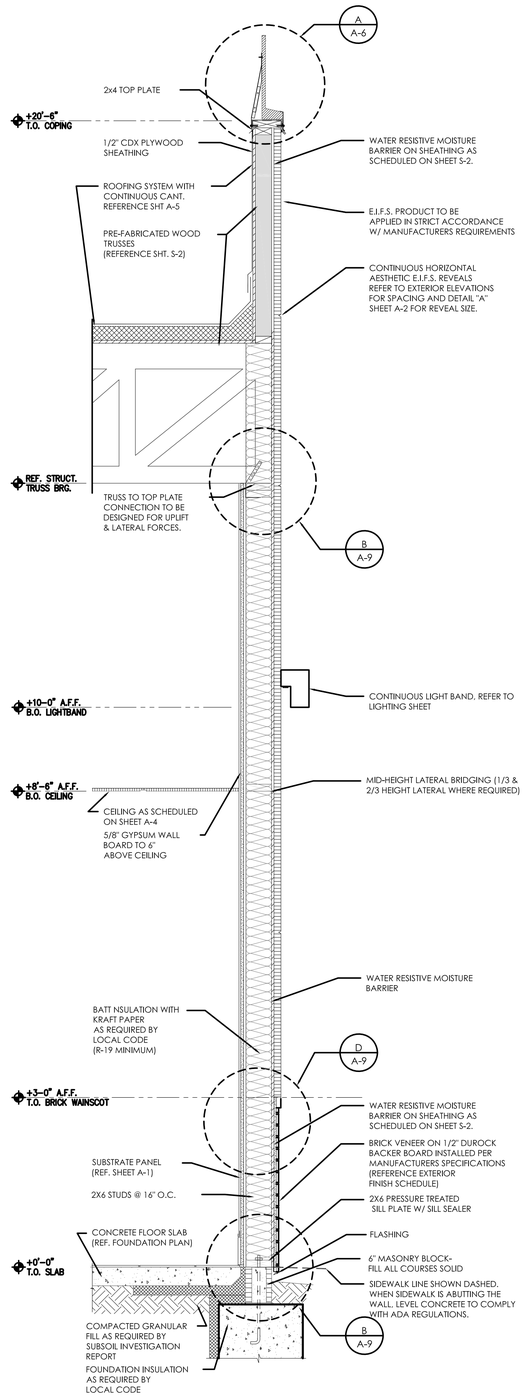
SHEET A-5



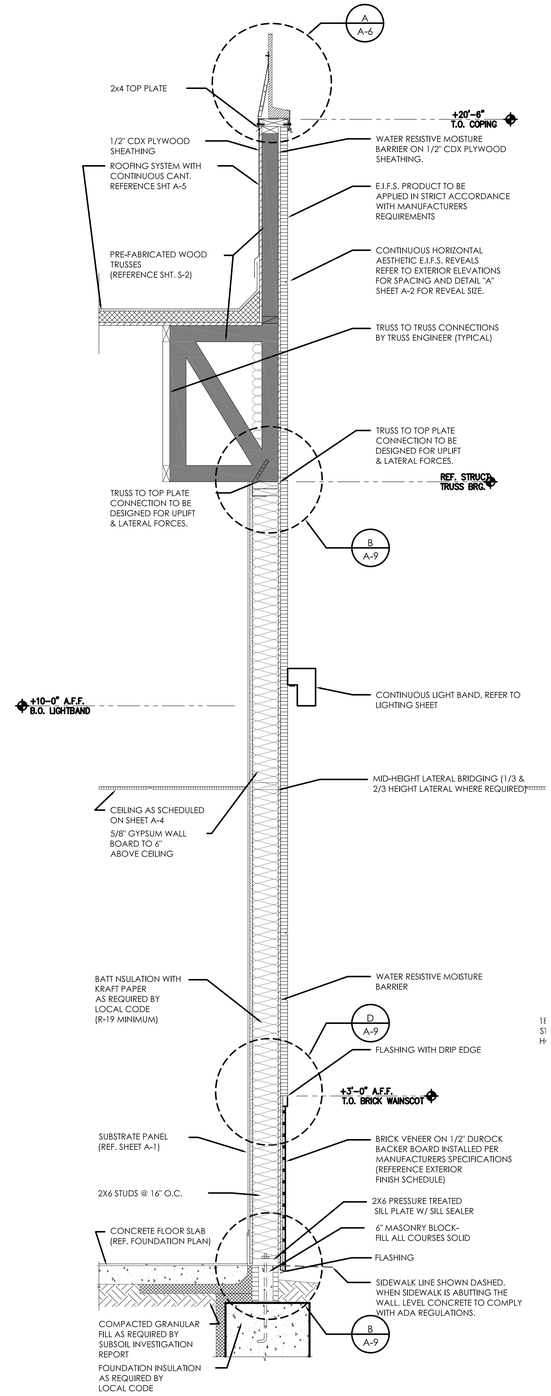

## A PARAPET LIGHT BAND DETAIL

SCALE: 3' - 1'-0"



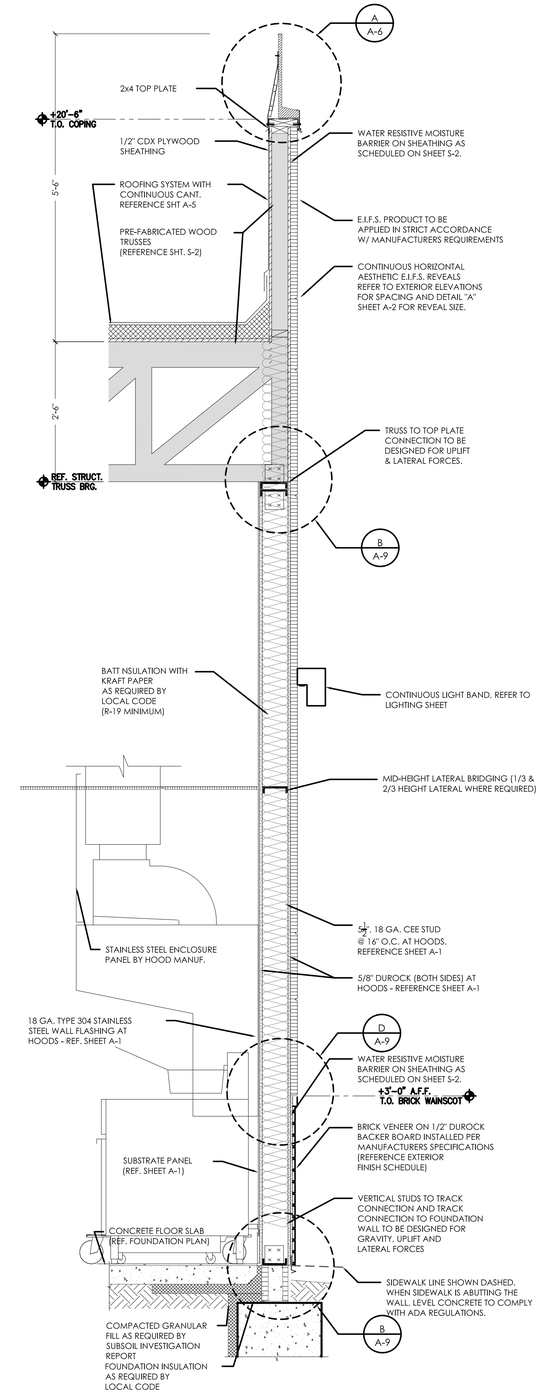

## 1 KITCHEN SIDE WALL

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




## 2 REAR KITCHEN WALL

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




## 3 KITCHEN HOOD WALL

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

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| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

TGi TECHNICAL GROUP, Inc.
27800 MIDDLEBELT RD. SUITE F2
FARMINGTON HILLS, MI 48331
P: (248) 426-8000 F: (248) 426-7004

AZIZ S. BOU-MARONE REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

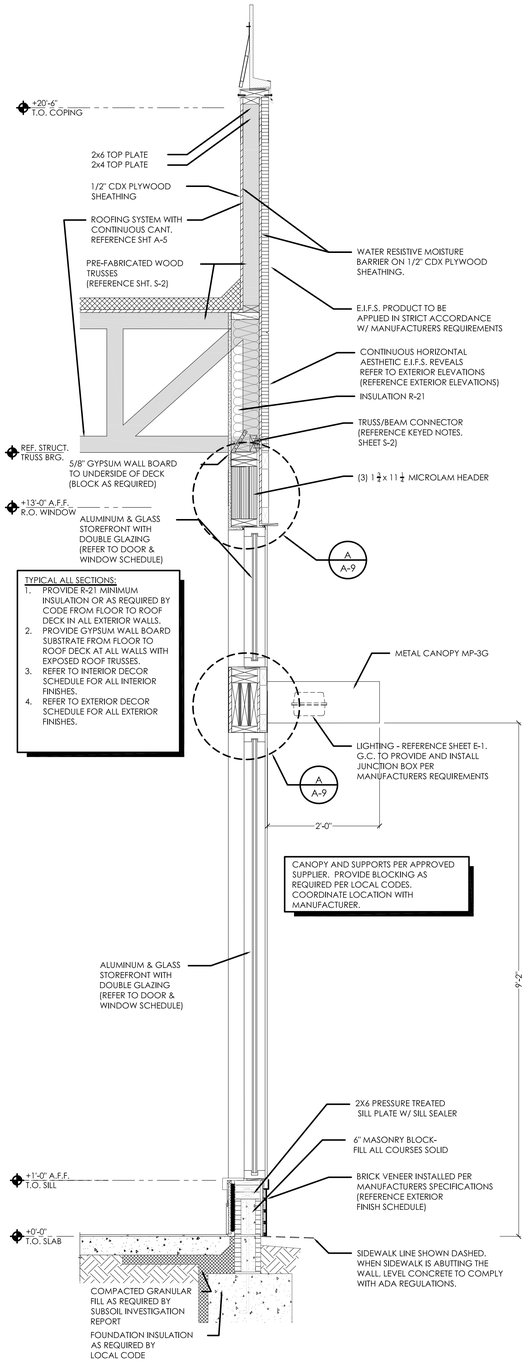
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
WALL SECTIONS AND DETAILS

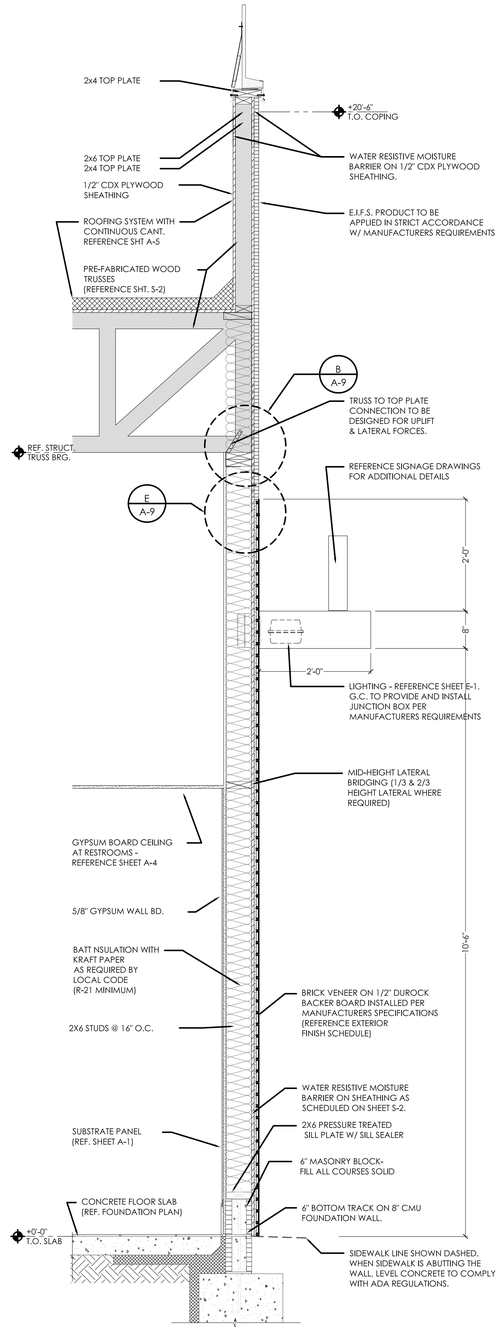
DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

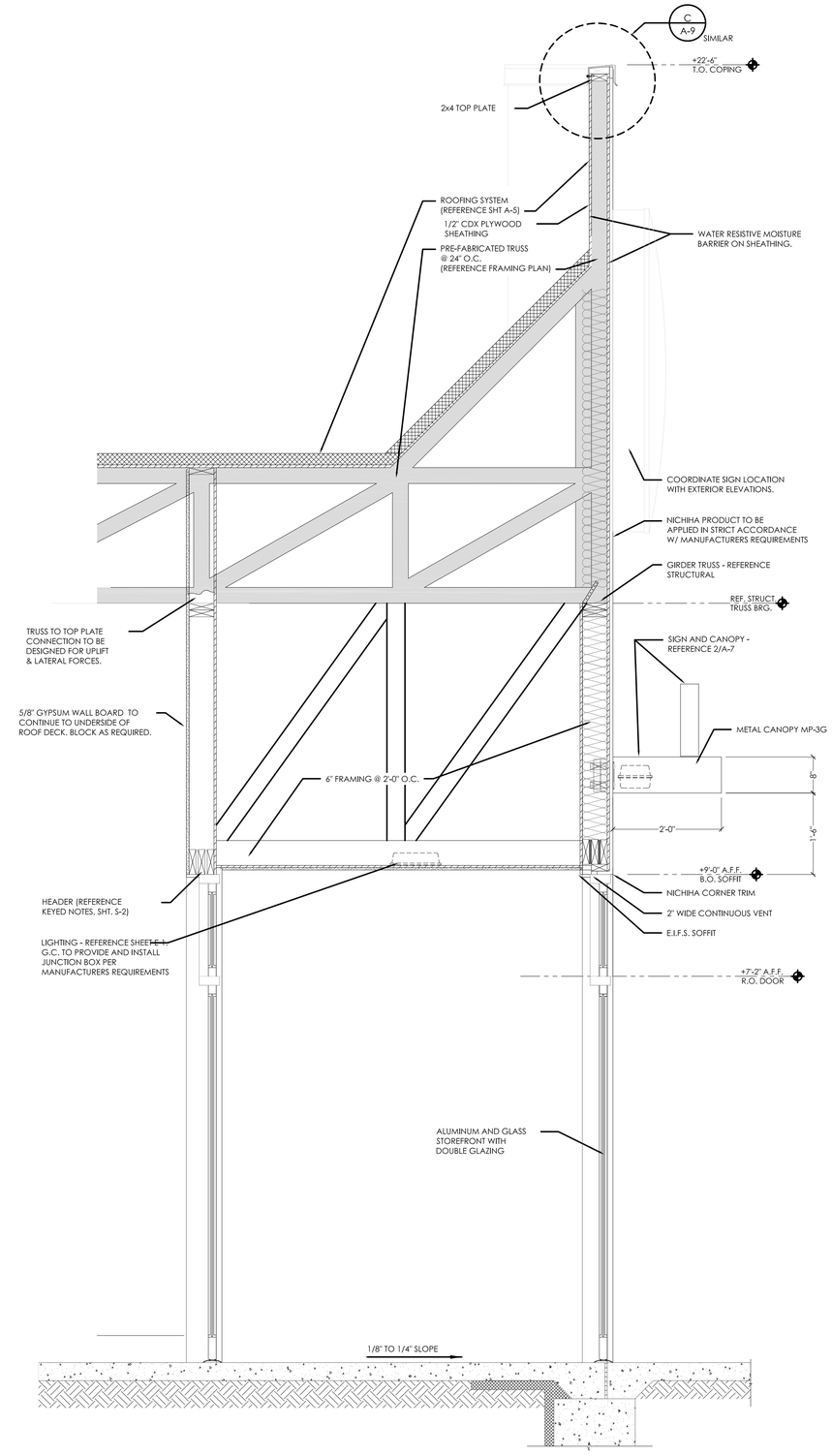
SHEET
A-6




1 DINING ROOM SIDE WALL
SCALE: 3 / 4" - 1'-0"




2 MAIN ENTRANCE WALL
SCALE: 3 / 4" - 1'-0"




3 MAIN ENTRANCE TOWER
SCALE: 3 / 4" - 1'-0"

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 04.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP, Inc.
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AZIZ S. BOU-MARON REGISTERED No. 910381 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

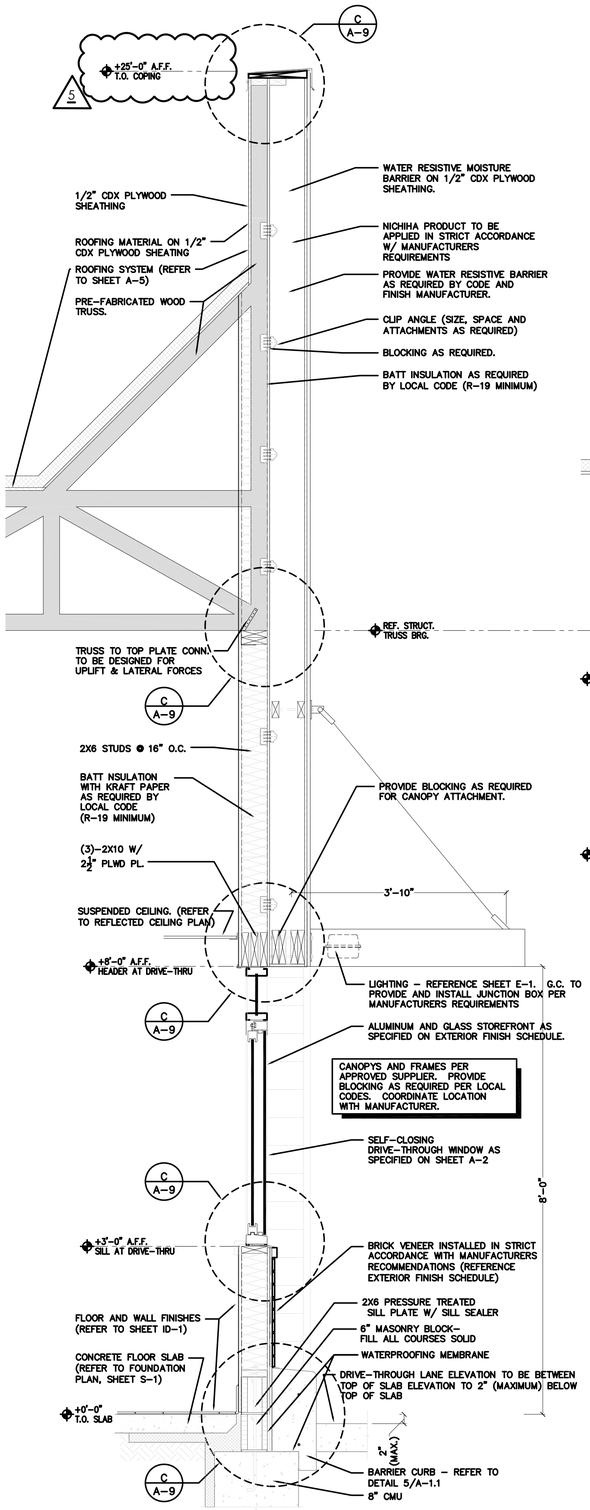
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
WALL SECTIONS AND DETAILS

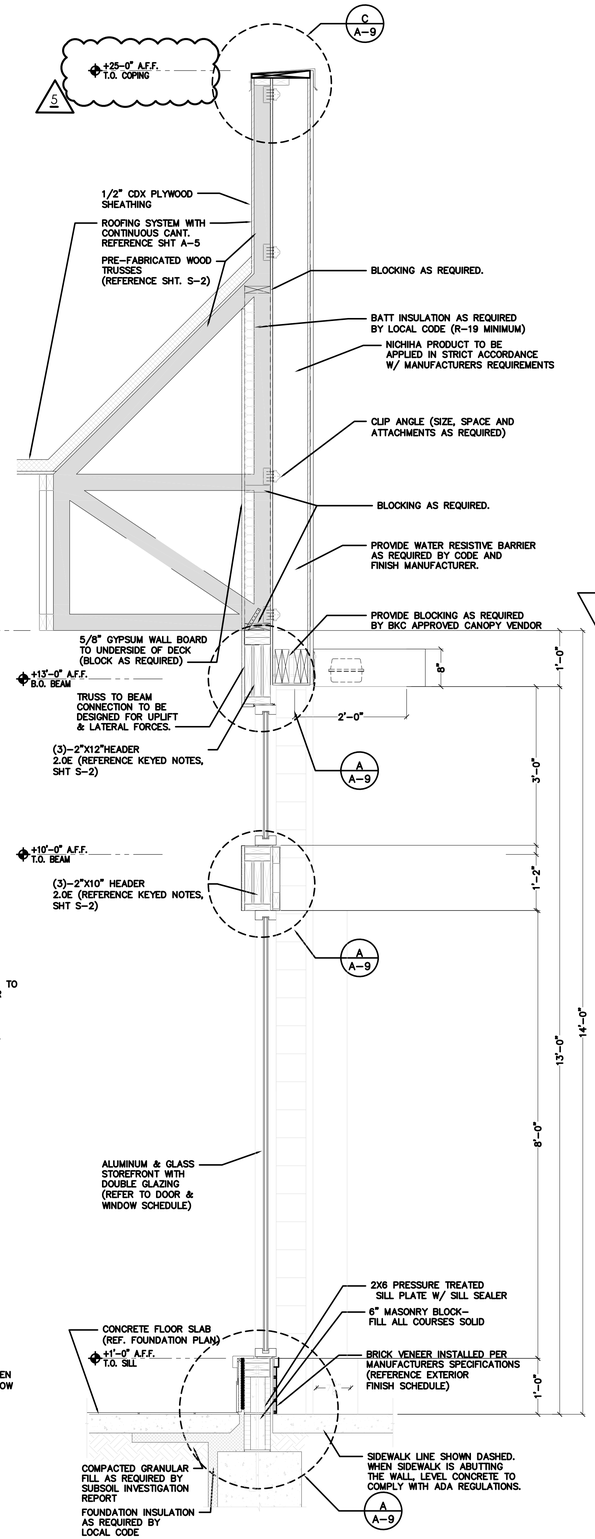
DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

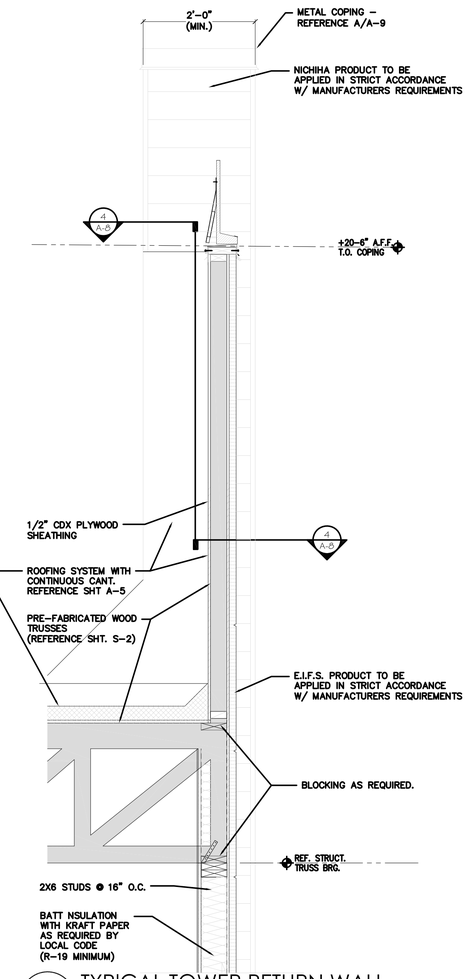
SHEET
A-7



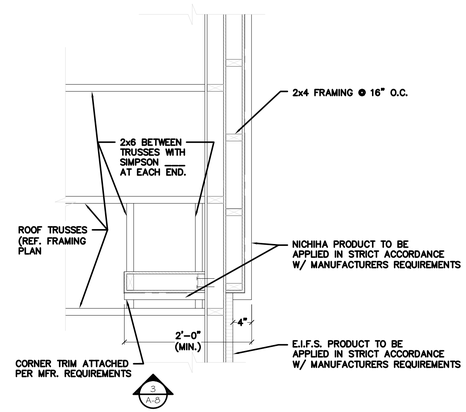

1 DRIVE-THROUGH WINDOW WALL
SCALE: 3 / 4" - 1'-0"



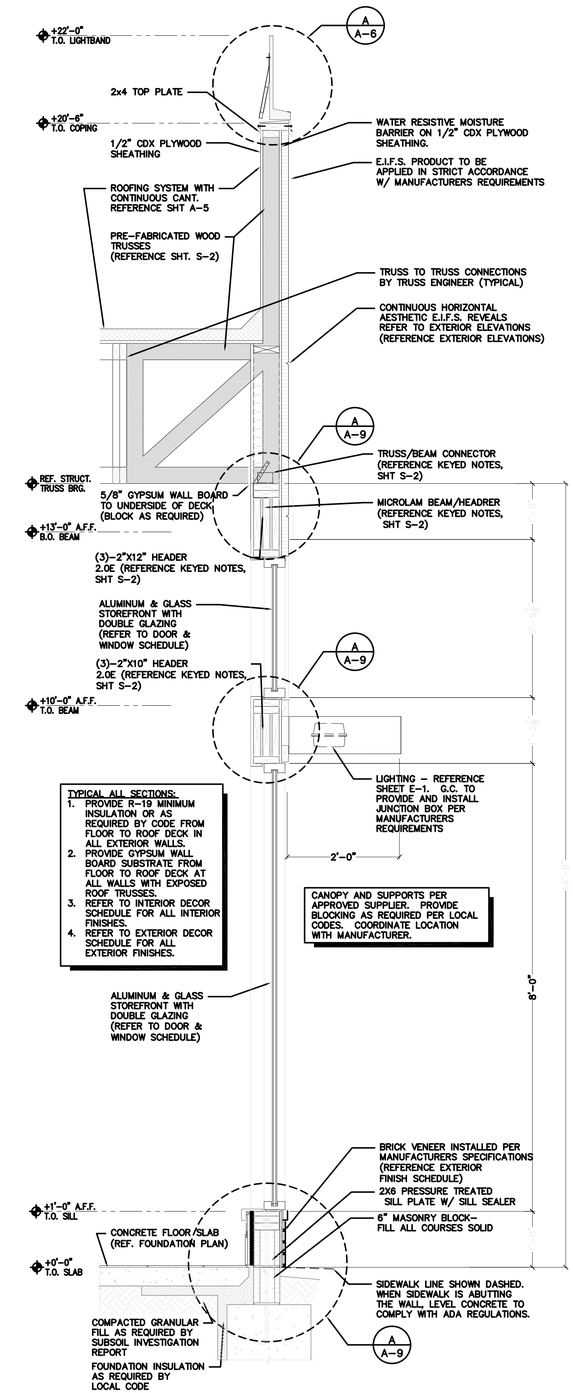

2 FRONT DINING ROOM WALL
SCALE: 3 / 4" - 1'-0"




3 TYPICAL TOWER RETURN WALL
SCALE: 3 / 4" - 1'-0"




4 SECTION (PLAN) AT TYPICAL TOWER RETURN WALL
SCALE: 3 / 4" - 1'-0"




5 DINING ROOM FRONT WALL
SCALE: 3 / 4" - 1'-0"

| No. | Date | By | Notes |
|---|---|---|---|
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| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

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BURGER KING CORPORATION

TECHNICAL GROUP Inc.
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AZIZ S. BOU-MARON REGISTERED No. 910081 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

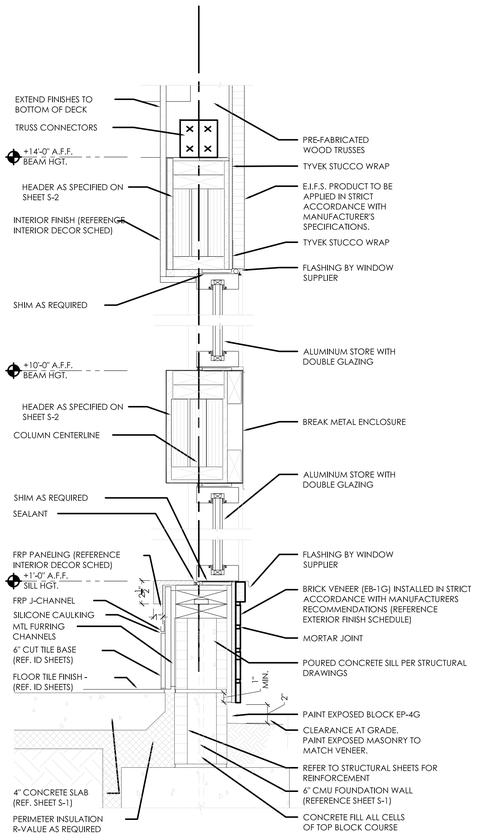
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
WALL SECTIONS

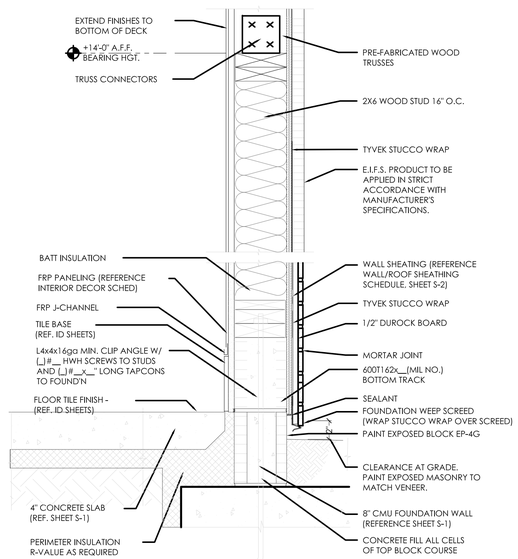
DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

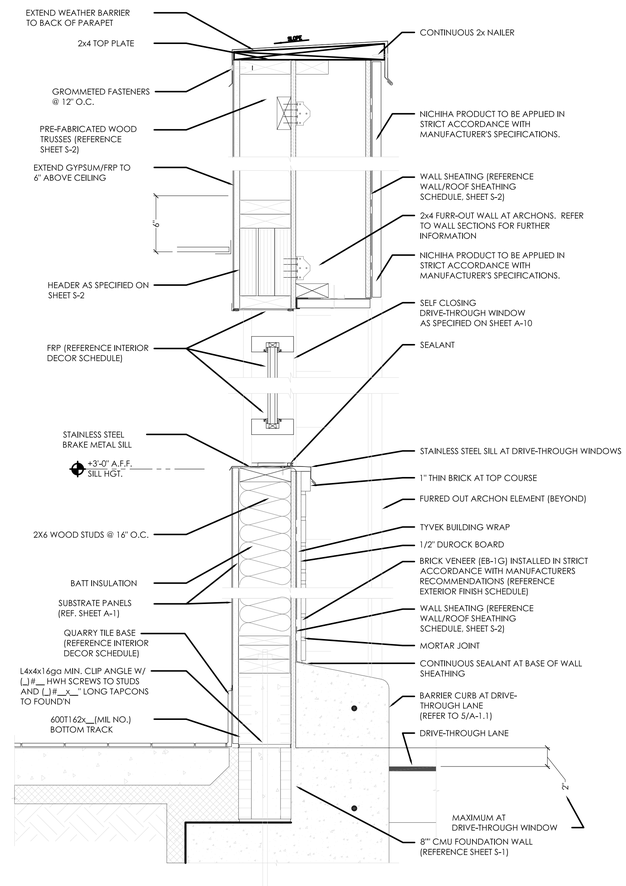
SHEET
A-8



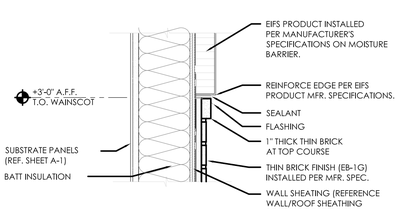

A BASE-SILL-HEADER-CAP DETAILS
SCALE: 1 1 / 2" - 1'-0"



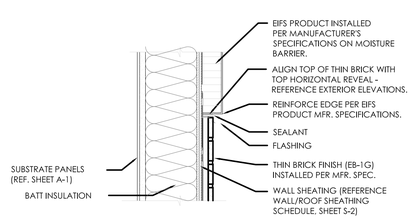

B BASE-SILL-HEADER DETAILS
SCALE: 1 1 / 2" - 1'-0"




C DRIVE-THROUGH BASE-SILL-HEADER-CAP DETAILS
SCALE: 1 1 / 2" - 1'-0"




D WAINSCOT/STUCCO TRANSITION
SCALE: 1 1 / 2" - 1'-0"




E THIN BRICK/STUCCO TRANSITION @ MAIN ENTRY WALL
SCALE: 1 1 / 2" - 1'-0"

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
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AZIZ S. BOU-MARO REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
WALL SECTIONS AND DETAILS

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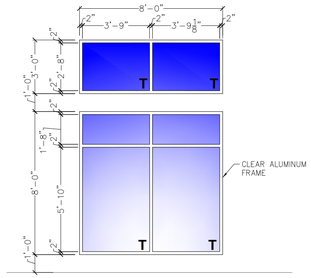
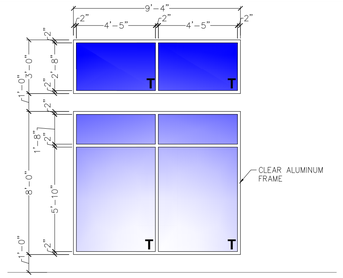
JOB #
TG-21668

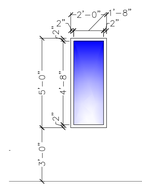
SHEET
A-9



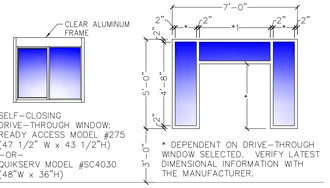

**WINDOW** (A)(B)
SCALE: 1/4" = 1'-0"




**WINDOW** (C)(D)(E)
SCALE: 1/4" = 1'-0"

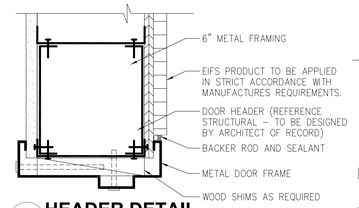



**WINDOW** (F)
SCALE: 1/4" = 1'-0"

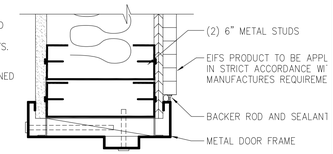



**WINDOW** (G)(H)
SCALE: 1/4" = 1'-0"

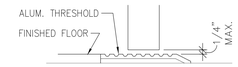
NOTE: ALL WWINDOW OPENING SIZES TO BE VERIFIED ON SITE PRIOR TO FABRICATION



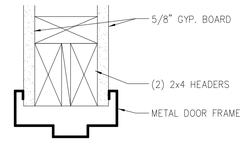

**A HEADER DETAIL**
SCALE: 3" = 1'-0"



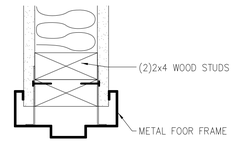

**B JAMB DETAL**
SCALE: 3" = 1'-0"




**C THRESHOLD DETAL**
SCALE: 3" = 1'-0"




**D HEADER DETAIL**
SCALE: 3" = 1'-0"



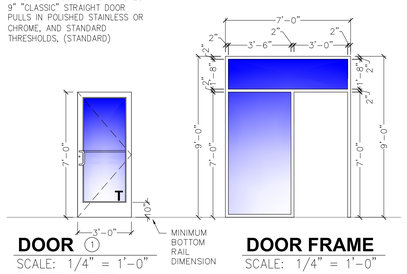

**E JAMB DETAIL**
SCALE: 3" = 1'-0"

**DOOR**
OPENING: 3'-0"x7'-0"x1 3/4"x AD x AF
MATERIAL: ALUMINUM / GLASS
FINISH: CLEAR

**HARDWARE**
HINGES, OFFSET PIVOTS
LOCKSET: ADAMS RITE DEAD BOLT, MS 1852S
FLUSH BOLTS, 1 PAIR
SURFACE CLOSER:
NORTON 1605 WITH BACK CHECK
9" "CLASSIC" STRAIGHT DOOR
PULLS IN POLISHED STAINLESS OR CHROME, AND STANDARD
THRESHOLDS, (STANDARD)

**FRAME**
MATERIAL: ALUMINUM
FINISH: CLEAR

**REMARKS**
DUMMY CYLINDERS
SHALL BE PROVIDED ON THE EXTERIOR OF ALL DOORS EXCEPT AT MAIN ENTRY.




**DOOR** (1)
SCALE: 1/4" = 1'-0"
**T = TEMPERED**

**DOOR FRAME**
SCALE: 1/4" = 1'-0"

**HEAD**
REFER TO SHEET A-9

**JAMB**
REFER TO SHEET A-9

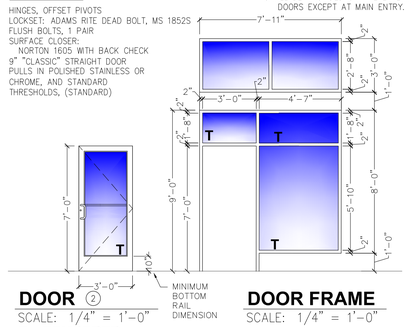
**SILL** (G)

**DOOR**
OPENING: 3'-0"x7'-0"x1 3/4"x AD x AF
MATERIAL: ALUMINUM / GLASS
FINISH: CLEAR

**HARDWARE**
HINGES, OFFSET PIVOTS
LOCKSET: ADAMS RITE DEAD BOLT, MS 1852S
FLUSH BOLTS, 1 PAIR
SURFACE CLOSER:
NORTON 1605 WITH BACK CHECK
9" "CLASSIC" STRAIGHT DOOR
PULLS IN POLISHED STAINLESS OR CHROME, AND STANDARD
THRESHOLDS, (STANDARD)

**FRAME**
MATERIAL: ALUMINUM
FINISH: CLEAR

**REMARKS**
DUMMY CYLINDERS
SHALL BE PROVIDED ON THE EXTERIOR OF ALL DOORS EXCEPT AT MAIN ENTRY.




**DOOR** (2)
SCALE: 1/4" = 1'-0"
**T = TEMPERED**

**DOOR FRAME**
SCALE: 1/4" = 1'-0"

**HEAD**
REFER TO SHEET A-9

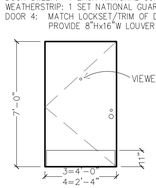
**JAMB**
REFER TO SHEET A-9

**SILL** (G)

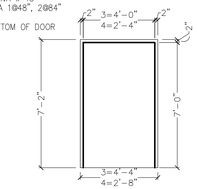
**DOOR**
OPENING: 4'-0"x7'-0"x1 3/4"x MD x MF
MATERIAL: HOLLOW METAL
FINISH: PAINT - REFER TO SHEET A-2

**HARDWARE**
DOOR TO RECEIVE:
HINGES: 4 EACH HAGER: BB1168 4 1/2" x 4 1/2" x USP x NRP
EXIT DEVICE: 1 EACH VON DUPRIN 22EO x 689 (DOOR #3)
CLOSER: 1 EACH LCN 4116 EDA (DOOR #3) & LCN 4116 EDA (DOOR #4)
VIEWER: 1 EACH ROCKWOOD 622 x 626
KICKPLATES: 1 EACH HAGER 193S 10"x2" LDW 628 (INSTALL W/FLAT HEAD PHILLIPS HEAD SCREWS)
THRESHOLD: 1 EACH NATIONAL GUARD 325 x 48" x AL
DOOR SWEEP: 1 EACH NATIONAL GUARD 200NA x 48"
WEATHERSTRIP: 1 SET NATIONAL GUARD 160SA 1048", 2084"
DOOR 4: MATCH LOCKSET/TRIM OF DOOR #4
PROVIDE 8"Hx16"W LOUVER AT BOTTOM OF DOOR

**FRAME**
MATERIAL: HOLLOW METAL
FINISH: PAINT - REFER TO SHEET A-2




**DOOR** (3)(4)
SCALE: 1/4" = 1'-0"




**DOOR FRAME**
SCALE: 1/4" = 1'-0"

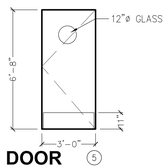
**HEAD** (A)
**JAMB** (B)
**SILL** (C)

**DOOR**
OPENING: 3'-0"x6'-8"x1 3/4"WD x AF
MATERIAL: SOLID CORE HPL
FINISH: REFERENCE ID SHEETS.

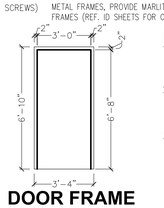
**HARDWARE**
EACH DOOR TO RECEIVE:
HINGES: 3 EACH HAGER: BB1279 4 1/2 x 4 1/2 x 652
LOCKSET: 1 EACH SCHLAGE, AL53PD SAT x 626
CLOSER: 1 EACH LCN 4111 EDA
FLOOR STOP: 1 EACH HAGER 241F x US26D
KICKPLATES: 2 EACH HAGER 193S 10"x2" LDW 628 (INSTALL W/FLAT HEAD PHILLIPS HEAD SCREWS)
SILENCERS: 3 EACH HAGER 307D RBR
DOOR VIEWER: 1 EACH ROCKWOOD 622 x 626

**FRAME**
MATERIAL: ALLUMINUM
FINISH: REFERENCE ID SHEETS.

**REMARKS**
SIGN PACKAGE: 1 "KITCHEN" AND CORRESPONDING SIGNAGE IN GRADE TWO BRAILLE PER ADA REQUIREMENTS. SIGNS FURNISHED BY DECOR SUPPLIER. SIGNS INSTALLED BY GENERAL CONTRACTOR PER ADA REQUIREMENTS.
AS AN OPTION IN LIEU OF SOLID CORE DOORS AND HOLLOW METAL FRAMES, PROVIDE MARLITE HPL DOORS WITH ALUMINUM FRAMES (REF. ID SHEETS FOR COLOR)




**DOOR** (5)
SCALE: 1/4" = 1'-0"




**DOOR FRAME**
SCALE: 1/4" = 1'-0"

**HEAD** (D)
**JAMB** (E)
**SILL** (F)

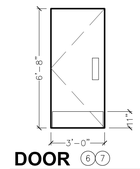
**DOOR**
OPENING: 3'-0"x6'-8"x1 3/4"x WD x MF
MATERIAL: SOLID CORE HPL
FINISH: REFERENCE ID SHEETS

**HARDWARE**
EACH DOOR TO RECEIVE:
HINGES: 3 EACH HAGER: BB1279 4 1/2 x 4 1/2 x 652
LOCKSET: ** 1 EACH FALCON: D271 X 626
CLOSER: 1 EACH LCN 4111 EDA
PUSH PLATE: 1 EACH HAGER 30S 4x16 628
PULL PLATE:*** 1 EACH HAGER H33E 4x16 628
FLOOR STOP: 1 EACH HAGER 241F x US26D
KICKPLATES: 2 EACH HAGER 193S 10"x2" LDW 628 (INSTALL W/FLAT HEAD PHILLIPS HEAD SCREWS)
SILENCERS: 3 EACH HAGER 307D RBR
NOTE:
UNDERCUT DOOR 1" FOR AIR FLOW WHEN HVAC SUPPLY NOT PROVIDED. (REF. SHEET M-1)

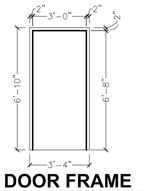
**FRAME**
MATERIAL: ALLUMINUM
FINISH: REFERENCE ID SHEETS

**REMARKS**
SIGN PACKAGE: 1 "LADIES", 1 "GENTLEMEN" AND CORRESPONDING SIGNAGE IN GRADE TWO BRAILLE PER ADA REQUIREMENTS. SIGNS FURNISHED BY DECOR SUPPLIER. SIGNS INSTALLED BY GENERAL CONTRACTOR PER ADA REQUIREMENTS.
AS AN OPTION IN LIEU OF SOLID CORE DOORS AND HOLLOW METAL FRAMES, RPOVIDE MARLITE HPL DOORS WITH ALUMINUM FRAMES (REF. ID SHEETS FOR COLOR)

** DELETE IF MULTIPLE OCCUPANCY RESTROOM
***OPTIONAL SANITGRASP #SG-101




**DOOR** (6)(7)
SCALE: 1/4" = 1'-0"




**DOOR FRAME**
SCALE: 1/4" = 1'-0"

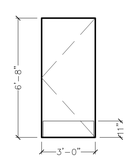
**HEAD** (D)
**JAMB** (E)
**SILL** (F)

**DOOR**
OPENING: 3'-0"x6'-8"
MATERIAL: SOLID CORE HPL/GLASS
FINISH: REFERENCE ID SHEETS.

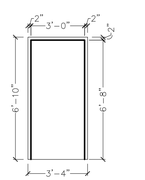
**HARDWARE**
DOOR TO RECEIVE:
HINGES: 3 EACH HAGER: BB1279 4 1/2 x 4 1/2 x 652
LOCKSET: 1 EACH SCHLAGE, AL53PD SAT x 626
FLOOR STOP: 1 EACH HAGER 241F x US26D
KICKPLATES: 2 EACH HAGER 193S 10"x2" LDW 628 (INSTALL W/FLAT HEAD PHILLIPS HEAD SCREWS)
SILENCERS: 3 EACH HAGER 307D RBR

**FRAME**
MATERIAL: ALLUMINUM
FINISH: REFERENCE ID SHEETS.

**REMARKS**
AS AN OPTION, IN LIEU OF SOLID CORE DOORS AND HOLLOW METAL FRAMES, PROVIDE MARLITE HPL DOORS WITH ALUMINUM FRAMES (REF. ID SHEETS FOR COLOR)

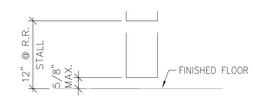



**DOOR** (8)
SCALE: 1/4" = 1'-0"

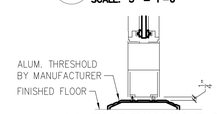



**DOOR FRAME**
SCALE: 1/4" = 1'-0"

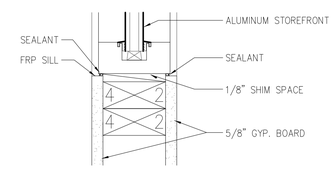
**HEAD** (D)
**JAMB** (E)
**SILL** (F)




**F THRESHOLD DETAIL**
SCALE: 3" = 1'-0"




**G THRESHOLD DETAIL**
SCALE: 3" = 1'-0"

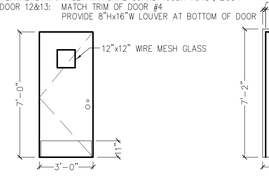



**H OFFICE SILL DETAIL**
SCALE: 3" = 1'-0"

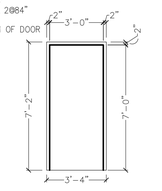
**DOOR**
OPENING: 4'-0"x7'-0"x1 3/4"x MD x MF
MATERIAL: HOLLOW METAL
FINISH: PAINT - REFER TO SHEET A-2

**HARDWARE**
DOOR TO RECEIVE:
HINGES: 4 EACH HAGER: BB1168 4 1/2" x 4 1/2" x USP x NRP
EXIT DEVICE: 1 EACH SCHLAGE L9453 MORTISE WITH ADA THUMBTURN
CLOSER: 1 EACH LCN 4111 EDA
VIEWER: 1 EACH ROCKWOOD 622 x 626
KICKPLATES: 1 EACH HAGER 193S 10"x2" LDW 628 (INSTALL W/FLAT HEAD PHILLIPS HEAD SCREWS)
THRESHOLD: 1 EACH NATIONAL GUARD 325 x 48" x AL
DOOR SWEEP: 1 EACH NATIONAL GUARD 200NA x 48"
WEATHERSTRIP: 1 SET NATIONAL GUARD 160SA 1048", 2084"
DOOR 12&13: MATCH TRIM OF DOOR #4
PROVIDE 8"Hx16"W LOUVER AT BOTTOM OF DOOR

**FRAME**
MATERIAL: HOLLOW METAL
FINISH: PAINT - REFER TO SHEET A-2




**DOOR** (9)(10)
SCALE: 1/4" = 1'-0"




**DOOR FRAME**
SCALE: 1/4" = 1'-0"

**HEAD** (A)
**JAMB** (B)
**SILL** (C)

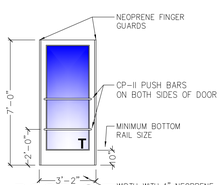
**INTERIOR ENTRY INTO PLAYGROUND:**

**DOOR**
OPENING: 3'-2"x7'-0"x1 3/4"x AD x AF
MATERIAL: ALUMINUM / GLASS
FINISH: CLEAR

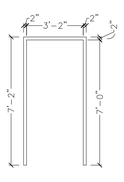
**HARDWARE**
HARDWARE SET TO BE PROVIDED BY STOREFRONT MFR.
1 OVERHEAD CONCEALED CLOSER (KAWNEER HUSKEY II DUEL SWING)
1 KAWNEER BOTTOM CENTER PIVOT
2 CP-II PUSH BARS ON BOTH SIDES OF DOOR AS INDICATED
2 KAWNEER 1" BLACK NEOPRENE FINGER GUARDS MOUNTED ON BOTH STILES.
1 ADAMS RITE 1852A DEADBOLT LOCK

**FRAME**
MATERIAL: ALUMINUM
FINISH: CLEAR

**REMARKS**
DUMMY CYLINDERS
SHALL BE PROVIDED ON THE EXTERIOR OF ALL DOORS EXCEPT AT MAIN ENTRY.




**DOOR** (PG)
SCALE: 1/4" = 1'-0"
**T = TEMPERED**

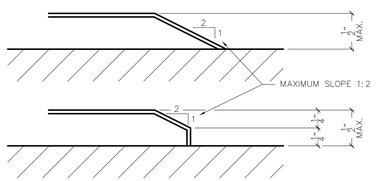



**DOOR FRAME**
SCALE: 1/4" = 1'-0"

**HEAD**
REFER TO SHEET A-9

**JAMB**
REFER TO SHEET A-9

**SILL** (G)




**ACCESSIBLE THRESHOLD REQUIREMENTS**
SCALE: 1'-0" = 1'-0"

## Specified Products and Approved Equals

| | | | |
|---|---|---|---|
| **Hinges - Provide features, functions, size and finish as shown in hardware sets.** | | | |
| HAGER | BB1279 | BB1168 | 253 |
| MCKINNEY | TA2714 | T4A3786 | |
| BOMMER | BB5000 | BB5004 | |
| **Locks - Provide features, functions and finish as shown in hardware sets.** | | | |
| FALCON - DEADLOCK | D871 | | NO SUBSTITUTIONS |
| SCHLAGE | AL53PD | AL405 | |
| YALE | AU5307LN | AU5302LN | |
| FALCON | B511D | B301D | |
| **Exit Device - Provide features, functions and finish as shown in hardware sets.** | | | |
| VON DUPRIN | 22 EO | | |
| YALE | 2100 EO | | |
| SARGENT | 3828 EO | | |
| **Closers - Provide features, functions and finish as shown in hardware sets.** | | | |
| LCN | 4461 | 4115 H-CUSH | |
| YALE | 3301 | 4425T/4421T | |
| DORMA | 8616 | 8916 DST/8956 DST | |

**Push/Pull, KP, Stops, Etc. - Provide features, functins, size and finish as shown in hardware sets.**

| | | | | | | |
|---|---|---|---|---|---|---|
| HAGER | KICKPLT 193S | PULL PLT H33E | PUSH PLT 30S | FL STOP 241F | WALL STOP 236W | VIEWER 1756 |
| ROCKWOOD | K1050 B3E | BF106 X 70C | 70C | 441CU | 409 | 622 |
| TRIMCO | K0050 | 1017-3x2 1/2 PROJ. | 1001-3 | 1211 | 1270WV | 976U |

**Weatherstripping, Thresholds, Etc. - provide features, functions, size and finish as shown in hardware sets.**

| | | | |
|---|---|---|---|
| NATIONAL GUARD | THRESHOLD 325A | SWEEP 200NA | WEATHERSTRIP 160SA |
| PEMKO | 229A | 315CN | 303AS |
| ZERO | 1675A | 39A | 99A |

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INQUOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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BURGER KING CORPORATION

TGI TECHNICAL GROUP, Inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P: (248) 960-8000 F: (248) 426-7004

AZIZ S. BOU-MARON REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
DOOR AND WINDOW SCHEDULE

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

SHEET
A-10

# DIRECTORY OF MANUFACTURERS AND SUPPLIERS

This list is intended to assist the contractor in sourcing building materials and products. In many cases, approved Burger King materials and products may be purchased directly from these sources at a national accounts price. For a complete listing of approved manufacturers, see plans and specifications, and visit RSI's eRedbook.

**UPDATE: 7-15-2021**

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **DIVISION 4 - MASONRY** | | **DIVISION 9 - FINISHES** | | **DIVISION 15 - MECHANICAL** | | **EQUIPMENT, PLAYGROUNDS AND DÉCOR** | | |
| PINE HALL BRICK CO.<br>(THIN BRICK & FACE BRICK)<br>2701 SHOREFAIR DRIVE, NW<br>WINSTON-SALEM, NC 27105<br>THERESA BEANE: (800) 334-8689<br>TBEANE@PINEHALLBRICK.COM | EVOLUTION BRICK<br>(THINK BRICK, PANELIZED THIN BRICK & FACE BRICK)<br>126 OLD HIGHWAY 60 EAST<br>HARDINSBURG, KY 40143<br>GABE POWERS: (502) 558-4612<br>gabe@evolutionbrick.com | FOR FINISH MATERIALS, AND CONTACTS, REFER TO FINISH SCHEDULES FOUND IN THE "COMMON DOCUMENTS" SECTION OF THE WWW.DESIGNWITHBK.COM WEBSITE. | | RINNAI<br>(INSTANT WATER HEATERS)<br>RINNAI NATIONAL ACCOUNT PRICING THROUGH HAINES, JONES, & CADBURY<br>bk@hjcinc.com OR 800-459-7099 | EVERPURE, INC<br>(WATER FILTERS)<br>1040 MUIRFIELD DRIVE<br>HANOVER PARK, IL. 60133<br>SEAN TEAL 630-306-0296<br>sean.teal@pentair.com | SICOM (XENIAL)<br>(POS, IDMB&ODMB HARDWARE/SOFTWARE, SPEED OF SERVICE TIMER, KITCHEN MINDER -CHEF)<br>4434 MEADOW DRIVE<br>DOYLESTOWN, PA, 18901<br>bksales@sicom.com<br>MICHAEL SCHWARTZ 215-489-2500 EXT 2249<br>michael.schwartz@xenial.com | STRATACACHE<br>(CONTROLLERS FOR INTERIOR MENU BOARDS AND OUTDOOR DIGITAL MENU BOARDS)<br>40 North Main Street<br>Dayton Ohio 45423<br>KEVIN FENTON (678)427-3139<br>kfenton@stratacache.com | BMC USA LLC<br>(INTERIOR & EXTERIOR DÉCOR)<br>2655 SOUTH LE JEUNE ROAD, SUITE 905<br>CORAL GABLES, FL 33134<br>EMILIO MARTINEZ FERNÁNDEZ<br>emiliomartinez@bmcec.com |
| HC MUDDOX BRICK CO.<br>(FACE BRICK)<br>4875 BRADSHAW ROAD<br>SACRAMENTO, CA 95827<br>ERIN LYNCH 916-206-7831 | BORAL STONE<br>(MANUFACTURED STACKED STONE)<br>1370 GRAND AVENUE, SUITE B<br>SAN MARCOS, CA 92078<br>SUSAN KING (413) 207-7285<br>Susan.King@boral.com<br>culturedstone@boral.com | ARMSTRONG STRATEGIC ACCOUNTS<br>(CEILING TILE)<br>CHERYL SMITH 252-214-4426<br>cbsmith@armstrongceilings.com<br>OR ARMSTRONG STRATEGIC ACCOUNTS<br>(800) 442-4212<br>armstrongcsa@armstrongceilings.com | USG INTERIORS<br>(CEILING TILE)<br>JOHN FUNES 312.436.5841<br>JFUNES@USG.COM<br><br>NOTE: USE PROGRAM QUOTE # 00103139 TO RECEIVE NATIONAL BKC PRICING | RHEEM<br>(WATER HEATERS)<br>RHEEM NATIONAL ACCOUNT PRICING THROUGH HAINES, JONES, & CADBURY<br>bk@hjcinc.com OR 800-459-7099 | SELECTO SCIENTIFIC, INC<br>(WATER FILTERS)<br>3980 LAKEFIELD COURT<br>SUWANEE, GA. 30024<br>CUSTOMER SERVICE (800)635-4017 x3 | Samsung/LSI<br>(INTERIOR & OUTDOOR DIGITAL MENU BOARD SCREENS)<br>10000 ALLIANCE ROAD<br>CINCINNATI, OH 45242<br>DAVID WATFORD 850-826-4602<br>d.watford@sea.samsung.com | PANASONIC<br>(DRIVE THRU HEADSETS)<br>2 RIVERVIEW PLAZA, 6TH FLOOR<br>NEWARK, NJ 07102<br>THERESA MURPHY 201-492-0925<br>theresa.murphy@us.panasonic.com | CASABLANCA DESIGN GROUP<br>(DECOR)<br>811 PICKENS INDUSTRIAL DRIVE<br>MARIETTA, GA 30026<br>JOHN HARRISON 770-423-9575<br>John.Harrison@cdg.com |
| **DIVISION 5 - METALS** | **DIVISION 6 - WOODS, COMPOSITES** | **DIVISION 10 - SPECIALTIES** | | | | | | |
| ADDISON STEEL<br>(STRUCTURAL STEEL)<br>ADDISON, IL<br>256-747-1554 | REDBUILT TRUSSES<br>(PRE-FABRICATED ENGINEERED TRUSSES)<br>Delaware, OH 43015<br>JARVIS JACKSON 740-368-4229<br>jjackson@redbuilt.com | BOBRICK/KOALA KARE PRODUCTS<br>(RESTROOM ACCESSORIES, TOILET PARTITIONS & HARDWARE, BABY CHANGING TABLES & HIGHCHAIRS)<br>CONTACT:<br>HAINES, JONES, & CADBURY (HJC)<br>RESTROOM REMODELS COMPANY<br>HAMILTON PARKER | SPROVERI'S CUSTOM COUNTERS<br>(CORIAN VANITY SINKS)<br>55 LAURA DRIVE<br>ADDISON, IL 60101<br>CONTACT:<br>HAINES, JONES, & CADBURY (HJC)<br>RESTROOM REMODELS COMPANY | 3M FOOD SERVICE<br>(WATER FILTERS)<br>3M CENTER<br>BLDG. 223-2N-20<br>ST. PAUL, MN. 55144-1000<br>DAVID RADCLIFF 518-281-7754<br>dpradliff@mmm.com<br>foodservice@mmm.com | ANTUNES<br>(WATER FILTERS)<br>180 KEHOE BOULEVARD<br>CAROL STREAM, IL 60188<br>SUSAN SUTTER 630-784-3447<br>susan.sutter@antunes.com | LG ELECTRONICS<br>(INTERIOR & OUTDOOR DIGITAL MENU BOARD SCREENS)<br>2000 MILLBROOK DRIVE<br>LINCOLNSHIRE, IL 60069<br>MICHAEL HA 847-941-8855<br>michael1.ha@lge.com | 3M FOOD SERVICE BUSINESS<br>(DRIVE THRU HEADSETS)<br>3M CENTER<br>BLDG. 223-2N-20<br>ST. PAUL, MN. 55144-1000<br>JOE CIAMPI: 704-771-2449<br>jjciampi@mmm.com | CHARTER HOUSE INC.<br>(INTERIOR & EXTERIOR DÉCOR)<br>4660 136 AVENUE<br>HOLLAND, MI. 49424<br>800-314-7659<br>KEITH LEBERT 248-996-0315<br>keith.lebert@charter-house.com |
| **DIVISION 7 - THERMAL MOISTURE PROTECTION** | | | | | | | | |
| DURO-LAST ROOFING<br>(FLAT ROOFING)<br>525 MORLEY DRIVE<br>SAGINAW, MI 48601<br>nationalaccounts@duro-last.com 800-432-9331 | BASF CORPORATION<br>(POLYURETHANE ROOFING SYSTEMS)<br>1703 CROSS POINT AVE<br>HOUSTON, TX 77054<br>ANDREW FOPPE (980) 218-1894<br>andrew.foppe@basf.com | HAINES, JONES, AND CADBURY (HJC)<br>(RESTROOM PLUMBING & ACCESSORIES, TOLIET PARTITIONS, CORIAN SINKS, WATER HEATERS, HIGH CHAIRS)<br>310 SW 24TH STREET<br>BENTONVILLE, AR 72712<br>bk@hjcinc.com OR 800-459-7099 | RESTROOM REMODELS COMPANY<br>(RESTROOM PLUMBING & ACCESSORIES, CORIAN SINKS)<br>15 HAMMATT STREET<br>IPSWICH, MA 01938<br>Krislynn Maciel 978-525-0008<br>kris@restroomremodels.com | ECOLAB<br>(WATER FILTERS)<br>1801 RIVERBEAND WEST DRIVE<br>FORT WORTH, TX 76118<br>AL POWELL 816-206-2513<br>al.powell@ecolab.com | CARRIER CORPORATION<br>(AIR CONDITIONING)<br>6304 CARRIER PARKWAY<br>SYRACUSE, NY. 13221<br>KEN REVILLA 954-218-0070<br>Ken.revilla@carrier..com | HM ELECTRONICS, INC (HME)<br>(DRIVE THRU HEADSETS)<br>14110 STOWE DRIVE<br>POWAY, CA. 92064<br>STEVE LEE 858-848-3704<br>SLee@hme.com | FRANKE<br>(KITCHEN EQUIPMENT CONSOLIDATOR, SMALLWARES, HOODS)<br>800 AVIATION PARKWAY<br>SMYRNA, TN. 37086<br>CUSTOMER SERVICE: 800-877-5178<br>fs-bkparts.us@franke.com<br>JOHN EDMONDS 615-267-1563<br>john.edmonds@franke.com | ELKAY SYSTEMS (FORMERLY ISI)<br>(DECOR)<br>241 NORTH BROADWAY, SUITE 600<br>MILWAUKEE, WI 53202<br>CHRISTINA GUTIERREZ 414.847.0709<br>christina.gutierrez@elkay.com |
| BERRIDGE ROOFING<br>(METAL ROOF)<br>TYLER HALL<br>SAN ANTONIO, TX.<br>210-650-7047 | TAMKO ROOFING PRODUCTS<br>(FLAT ROOFING)<br>P.O. BOX 1404<br>JOPLIN, MO. 64802<br>800-641-4691 | AMERICAN STANDARD<br>(RESTROOM ACCESSORIES)<br>1 CENTENNIAL AVENUE<br>PISCATAWAY, NJ. 08854<br>CONTACT:<br>HAINES, JONES, & CADBURY (HJC)<br>RESTROOM REMODELS COMPANY<br>HAMILTON PARKER | HAMILTON PARKER COMPANY<br>(RESTROOM PLUMBING & ACCESSORIES, HIGH CHAIRS)<br>1865 LEONARD AVENUE<br>COLUMBUS, OH 43219<br>JIM CAMPBELL 614-358-7806<br>jimcampbell@hamiltonparker.com | TRANE<br>(AIR CONDITIONING UNITS, RTU's/SPLIT SYSTEMS CONTROLS)<br>2884 CORPORATE WAY<br>MIRAMAR, FL. 33025<br>CHRIS ST. JOHN 407-325-7123<br>bkhvac@trane.com | LOREN COOK CO<br>(EXHAUST FANS)<br>2015 E. DALE<br>SPRINGFIELD, MO 65803-4637<br>BRENT FULLERTON 417-869-6474<br>bfullerton@lorencook.com | QUALSERV SOLUTIONS<br>(KITCHEN EQUIPMENT CONSOLIDATOR, SMALLWARES)<br>7400 SOUTH 28th STREET<br>FORT SMITH, AR. 72908<br>BRITTANY GOODWIN (479)646-8386 x335<br>BGoodwin@qualservsolutions.com | DUKE MANUFACTURING<br>(BROILERS & PRODUCT HOLDING UNITS)<br>2305 NORTH BROADWAY<br>ST. LOUIS MO. 63102<br>RICK GARRIGA 306-606-2084<br>rgarriga@dukemfg.com | FCC COMMERCIAL FURNITURE<br>(INTERIOR & EXTERIOR DÉCOR)<br>8452 OLD HWY. 99 NORTH<br>ROSEBURG, OR. 97470<br>PRESTON O'HARA<br>800-322-7328 EXT 284<br>preston.ohara@fccfurn.com |
| FIRESTONE METAL PRODUCTS<br>(METAL ROOF)<br>250 WEST 96TH STREET<br>INDIANAPOLIS, IN 46260<br>YUSUKE KOREEDA: 615-345-9991<br>koreedayusuke@firestonebp.com | G.A.F.<br>(FLAT ROOF)<br>1361 ALPS ROAD<br>WAYNE, NJ. 07470<br>(201) 628-3000<br>800-766-3411 | SAN JAMAR<br>(KITCHEN PAPER TOWEL DISPENSORS & SUPPLIES)<br>555 KOOPMAN LANE<br>ELKHORN, WI.<br>CONTACT:<br>FRANKE, INC.<br>H&K INTERNATIONAL<br>QUALSERV SOLUTIONS | WORLD DRYER, CO<br>(HAND DRYERS)<br>CONTACT:<br>HAINES, JONES, & CADBURY (HJC)<br>RESTROOM REMODELS COMPANY<br>HAMILTON PARKER | FRANKE, INC.<br>(BROILER AND FRYER VENTILATION HOODS)<br>800 AVIATION PARKWAY<br>SMYRNA, TN 37086<br>800-877-5718<br>fs-bkparts.us@franke.com | AMEREX CORPORATION<br>(FIRE PROTECTION SYSTEMS)<br>7595 GADSDEN HIGHWAY<br>TRUSSVILLE, AL 35173-0081<br>JAMES KNOWLES 205-655-5721<br>james.knowles@amerex-fire.com<br>www.amerex-fire.com | H & K INTERNATIONAL<br>(KITCHEN EQUIPMENT CONSOLIDATOR, SMALLWARES, HOODS)<br>2200 SKYLINE DR<br>DALLAS, TX 75223<br>HEATHER VALVERDE 561-626-1020<br>heather.valverde@hki.com | NIECO CORPORATION<br>(BROILERS)<br>7950 CAMERON DRIVE<br>WINDSOR, CA 95492<br>GUIDO NAVA 630-303-6824<br>gnava@nieco.com | FACILITY CONCEPTS, INC (FCI)<br>(DECOR)<br>7676 ZIONSVILLE ROAD<br>INDIANAPOLIS, IN 46268<br>(800)915-8890<br>customerservice@fcius.com<br>KEN WEAVER<br>kweaver@fcius.com |
| NICHIHA USA LLC<br>(FIBERCEMENT PANELS)<br>6465 EAST JOHNS CROSSING, SUITE 250<br>JOHNS CREEK, GA 30097<br>NICHIHA CUSTOMER SERVICE (770) 805-9466<br>BK@NICHIHA.COM | | H&K INTERNATIONAL<br>(STAINLESS STEEL BATHROOM SINKS)<br>2200 SKYLINE DRIVE<br>MESQUITE, TX 75149<br>HEATHER VALVERDE 214-818-3521<br>heather.valverde@hki.com | ZURN INDUSTRIES<br>(PLUMBING FIXTURES)<br>CONTACT:<br>HAINES, JONES, AND CADBURY<br>or RESTROOM REMODELS COMPANY | H&K INTERNATIONAL<br>(BROILER AND FRYER VENTILATION HOODS)<br>2200 SKYLINE DRIVE<br>MESQUITE, TX 75149<br>HEATHER VALVERDE 214-818-3521<br>heather.valverde@hki.com | GAYLORD INDUSTRIES, INC<br>(BROILER AND FRYER VENTILATION HOODS)<br>10900 SOUTHWEST AVERY STREET<br>TUALATIN, OR, 97062<br>ROB CARMICHAEL 770-265-2562<br>Rob.Carmichael@gaylordventilation.com | TRIMARK USA<br>(KITCHEN EQUIPMENT CONSOLIDATOR, SMALLWARES FOR AAFES ORDERS ONLY)<br>2601 HOPE CHURCH ROAD<br>WINSTON-SALEM, NC 27103<br>BILLY HIGH 336-354-4262<br>billy.high@trimarkusa.com | PITCO FRIALATOR<br>(FRYERS)<br>10 FERRY STREET<br>CONCORD, NH. 03301<br>MARK MCCABE: 603-230-5509<br>MMcCabe@pitco.com | SEATING CONCEPTS<br>(DECOR)<br>125 CONNELL STREET<br>ROCKDALE, IL. 60436<br>(815)730-7980<br>ZACH DEPYSSLER<br>zdepyssler@seating-concepts.com |
| | | Customer 1st LLC<br>(SAFES)<br>8899 EAST DAILY ROAD, SUITE #51<br>PEKIN, IN 47165<br>MIKE MARCOSA -877-768-9970<br>mike@customer1stsafes.com | ECOLAB FOOD SAFETY SPECIALTIES INC, DBA DAYDOTS<br>(FIRST AID KITS)<br>201 EAST JOHN CARPENTER FREEWAY<br>IRVING, TX 75062<br>ANNA MALHIS 800-321-3687<br>customercare@daydots.com | | | FRYMASTER CORPORATION<br>(FRYERS)<br>8700 LINE AVE<br>SHREVEPORT, LA 71106<br>JOAN SALAH 813-504-9262<br>Joan.Salah@welbilt.com | LANCER CORP.<br>(BEVERAGE SYSTEM)<br>6655 LANCER BLVD<br>SAN ANTONIO, TX. 78219<br>GREG EDWARDS: 817-692-5094<br>greg.edwards@lancercorp.com | NAUTICAL FURNISHINGS, LLC<br>(LIMITED DÉCOR ITEMS)<br>60 NW 60TH STREET<br>FT. LAUDERDALE, FL 33309<br>MICHAEL HOGLUND: 954-771-1100<br>mhoglund@nauticalfurnishings.com |
| **DIVISION 8 - DOORS AND WINDOWS** | | **DIVISION 10 - SIGNS & CANOPIES** | | **DIVISION 16 - ELECTRICAL** | | | | |
| QUIKSERV<br>(DRIVE-THRU WINDOWS & AIR CURTAINS)<br>11441 BRITTMOORE PARK DRIVE<br>HOUSTON, TX. 77041<br>800-388-8307<br>BRIAN MCCLOSKEY<br>bmccloskey@quikserv.com | MARLITE<br>(RESTROOM PARTITIONS, ALUMINUM FRAMES & DOORS, DOOR HARDWARE, (HINGES, LOCKS, ETC)<br>202 HARGER STREET<br>DOVER, NH 44622<br>800-377-1221<br>ANITA CRAIG 330-260-7621 acraig@Marlite.com | ALLEN INDUSTRIES, INC<br>(CANOPIES AND SIGNS)<br>11351 49TH STREET NORTH<br>CLEARWATER, FL 33762<br>MEGAN PYRTLE 336-615-8688<br>bk@allenindustries.com | LEKTRON, INC<br>(LED PARAPET LIGHT BANDS)<br>7450 E. 46th PLACE<br>TULSA, OK. 74145<br>LANCE MITCHELL 918-622-4978<br>BurgerKing@LektronInc.com | SECURITY LIGHTING SYSTEMS<br>(FULL STORE PACKAGE LIGHTING FOR INTERIOR/EXTERIOR BUILDING & SITE LIGHTS, SURVEYS AND PHOTOMETRICS)<br>2100 GOLF ROAD, SUITE 460<br>ROLLING MEADOWS, IL. 60008<br>WHITNEY WATSON: 800-544-4848 EXT 131<br>wilg@securitylighting.com | HERMITAGE LIGHTING NATIONAL ACCOUNTS<br>(MASTER LIGHTING CONSOLIDATOR, SURVEYS AND PHOTOMETRICS)<br>3640 TROUSDALE DRIVE<br>NASHVILLE, TN. 37204<br>WYATT CULVER (615) 843-3379<br>wculver@gohermitage.com | FBD PARTNERSHIP, LP<br>(FROZEN BEVERAGE)<br>8161 INTERCHANGE PARKWAY SUITE 115<br>SAN ANTONIO, TX 78218<br>JOE CLEMENTS 214-732-9555<br>jclements@fbdfrozen.com | CORNELIUS, INC.<br>(BEVERAGE SYSTEM)<br>101 BROADWAY STREET WEST<br>OSSEO, MN 55369<br>ROSS DAVIS: 630-659-8690<br>ross.davis@cornelius.com | COMMERCIAL INTERIOR MANUFACTURERS, INC<br>(LIMITED DÉCOR ITEMS)<br>158 HOLLY STREET<br>JASPER, GA. 30143<br>AUSTIN HOLAN 706.299.0327<br>austin@cimgbiz.com |
| READY ACCESS<br>(DRIVE THRU WINDOWS & AIR CURTAINS)<br>1815 ARTHUR DRIVE WEST<br>CHICAGO, IL. 60185<br>KELLY MCGOLDRICK: 800-621-5045 EXT 113<br>kelly@ready-access.com | COMMERCIAL INTERIORS MANUFACTURING<br>(RESTROOM PARTITIONS, HOLLOW METAL FRAMES & DOORS, HARDWARE (HINGES, LOCKS, ETC)<br>158 HOLLY STREET<br>JASPER, GA 30143<br>AUSTIN HOLAN: 706.299.0327<br>austin@cimgbiz.com | ENTERA SIGNS<br>(CANOPIES AND SIGNS)<br>1200 ENTERA DRIVE<br>PANAMA CITY, FL. 32401<br>MATT CZAJKOWSKI 850-691-9652<br>matt@enterabranding.com | CUMMINGS SIGNS, INC<br>(CANOPIES AND SIGNS)<br>105 DALTON PLACE WAY<br>KNOXVILLE, TN 37912<br>JOEL EFFLER 615-872-5483<br>joel.effler@cummingssigns.com | LSI INDUSTRIES INC.<br>(INTERIOR AND EXTERIOR LIGHTING, SURVEYS AND PHOTOMETRICS)<br>10000 ALLIANCE ROAD<br>CINCINNATI, OH. 45242<br>BOB LUCAS 480-368-9399 OR 602-740-9894<br>Bob.Lucas@LSI-INDUSTRIES.com | ENERGYWISE SOULUTIONS, LLC<br>(MASTER LIGHTING CONSOLIDATOR, SURVEYS AND PHOTOMETRICS)<br>8550 UNITED PLAZA BOULEVARD, SUITE 702<br>BATON ROUGE, LA 70809<br>JENNIFER WADDICK 877-225-1336<br>jennifer@energywisemail.com | INTERNATIONAL COLD STORAGE (ICS)<br>(WALK-IN COOLERS / FREEZERS, DRY STORAGE COMPARTMENTS)<br>215 EAST 13th STREET<br>ANDOVER, KS. 67002<br>LYNNE CLATTERBUCK 316-218-4126<br>Lynne.clatterbuck@icsco.com | TAYLOR ULTIMATE SERVICES, INC<br>(SHAKE MACHINE, FROZEN BEVERAGE MACHINE)<br>1780 NORTH COMMERCE PKWY<br>WESTON, FL. 33326<br>RJ PIEDRA: 954-217-9100<br>raul@taylorus.com | TWENTY FOUR 7 GLOBAL SOLUTIONS, INC.<br>(GARDEN GRILL, PRIME & ROYAL CHAIRS AND BARSTOOLS)<br>898 NORTH SEPULVEDA BLVD, SUITE 465<br>EL SEGUNDO, CA 90245<br>GIANNE WON 323-319-2727<br>gianne.won@twentyfour7-global.com |
| HAMILTON PARKER COMPANY<br>(HOLLOW METAL FRAMES & DOORS, WOOD DOORS, HARDWARE (HINGES, LOCKS, ETC)<br>1865 LEONARD AVENUE<br>COLUMBUS, OH 43219<br>JIM CAMPBELL 614-358-7806<br>jimcampbell@hamiltonparker.com | 3M COMMERCIAL CORE DIVISION<br>(WINDOW FILM)<br>3M CENTER<br>ST. PAUL, MN<br>JOE CIAMPI: 704-771-2449 OR 800-328-0033<br>jjciampi@mmm.com | SIGN RESOURCE<br>(CANOPIES AND SIGNS)<br>6135 DISTRICT BLVD.<br>MAYWOOD, CA. 90270<br>KEN SIEGERT 810-241-0272<br>ken.siegert@signresource.com | FEDERAL HEATH SIGN CO<br>(CANOPIES AND SIGNS)<br>12704 DUPONT CIRCLE<br>TAMPA FL 33626<br>FIONA PAUL 813-855-4415<br>fpaul@federalheath.com | CREE LIGHTING<br>(INTERIOR AND EXTERIOR LIGHTING, SURVEYS AND PHOTOMETRICS)<br>9201 WASHINGTON AVENUE<br>RACINE, WI 53406<br>ELVIR SULJIC 262-884-3332<br>esuljic@creelighting.com | VAOPTO, LLC<br>(INTERIOR AND EXTERIOR BUILDING LIGHTING)<br>5178 WEST PATRICK LANE<br>LAS VEGAS, NV 89188<br>Linda Xu (702)517-5789<br>linda@vaopto.com | MANITOWOC ICE<br>(ICE MACHINES)<br>2110 SOUTH 26TH STREET<br>MANITOWOC, WI 54221<br>JOAN SALAH 813-504-9262<br>Joan.Salah@welbilt.com | KOLPAK, A WELBILT COMPANY<br>(WALK-IN COOLERS / FREEZERS)<br>952 KISSWICH MANOR LANE<br>BALDWIN, MO 63011<br>JOAN SALAH 813-504-9262<br>Joan.Salah@welbilt.com | WAUSAU TILE, INC<br>(EXTERIOR DÉCOR FURNITURE & ACCESSORIES)<br>P.O. BOX 1520<br>WAUSAU, WI 54402<br>RACHEL BATHKE 715-241-0320<br>RRBathke@wausautile.com |
| FINGERSAFE USA, INC.<br>(FINGER IN JAMB SAFETY - PLAYGROUNDS)<br>115 WEST OGLETHORPE AVENUE<br>SAVANNAH, GA 31401<br>orders@fingersafe.com<br>MEAGAN KUJAWSKI 912-234-6120<br>Meagan@Fingersafe.com | | DAKTRONICS, INC<br>(DIGITAL READERBOARD)<br>210 DAKTRONICS DRIVE<br>BROOKINGS, SD 57006<br>GREG BREYFOGLE 407-310-3695<br>Greg.Breyfogle@daktronics.com | OPTEC DISPLAYS, INC<br>(DIGITAL READERBOARD)<br>1700 SOUTH DESOTO PLACE<br>ONTARIO, CA 91768<br>Chad Engstrom (626)252-8333<br>cengstrom@optec.com | KONTECHUSA<br>(INTERIOR AND EXTERIOR BUILDING LIGHTING)<br>18045 ROLAND STREET<br>CITY OF INDUSTRY, CA 91748<br>(866) 236-8701<br>Miguel Martinez (626)622-1325<br>mmartinez@kontechusa.com | HILL PHOENIX POWER SYSTEMS DIVISION<br>(FACTORY INTEGRATED SWITCH GEAR)<br>8166 INDUSTRIAL BLVD<br>COVINGTON, GA. 30014<br>dfr-info@doverfoodretail.com 770-285-3264 | HOSHIZAKI AMERICA<br>(ICE MACHINES)<br>618 HIGHWAY 74 SOUTH<br>PEACHTREE CITY, GA 30269<br>ANGIE WARREN (770)487-2331 x11329<br>adwarren@hoshizaki.com | SCOTSMAN ICE SYSTEMS<br>(ICE MACHINES)<br>775 CORPORATE WOODS PARKWAY<br>VERNON HILLS, IL 60061<br>Evolution Team (800)726-8762 x15204<br>team.resolution@scotsman-ice.com | APA COLOR GRAPHICS<br>(LIMITED DECOR ITEMS & GRAPHICS)<br>2929 PACIFIC DRIVE<br>NORCROSS, GA<br>800.543.5775<br>CHUCK BOGEL 404.355.1355<br>chuck@apacolorgraphics.com |
| | | NRS - NATIONAL READERBOARD SUPPLY<br>(READERBOARD LETTERS & SUPPLIES)<br>160 PAHLONE PARKWAY<br>PONCHA SPRINGS, CO 81242<br>Patrick Case 800-243-6676<br>Sales@nationalreaderboard.com | | | | PLAY SYSTEMS/SII (SUPERIOR PLAY SYSTEMS)<br>(PLAYGROUND MANUFACTURER)<br>1050 COLUMBIA DR.<br>CARROLLTON, GA 30717<br>SHAN MCGUIRE 678-390-1915<br>https://superiorplay.com/ | SOFT PLAY, LLC<br>(PLAYGROUND MANUFACTURER, SAFETY SURFACING, NON-CONTAINED PLAY EQUIPMENT)<br>13620 EAST REESE BLVD. SUITE 300<br>HUNTERSVILLE, NC. 28078<br>BROCK HODGE 704-948-3430<br>brock.hodge@softplay.com | VGS, INC<br>(GRAPHICS)<br>1696 MABRY MILL DRIVE, SW<br>NORTH CANTON, OH 44709<br>BURGERKING@VGS-INC.COM<br>(800)201-0301 x1 |
| | | | | | | | | LSI INDUSTRIES<br>(GRAPHICS)<br>10000 ALLIANCE ROAD<br>CINCINNATI, OH. 45242<br>BOB LUCAS 480-368-9399 OR 602-740-9894<br>Bob.Lucas@LSI-INDUSTRIES.com |
| | | | | | | | | MOSS RETAIL AND ENVIRONMENTS<br>(GRAPHICS)<br>2643 WEST CHICAGO AVE<br>CHICAGO, IL 60622<br>bk@mossinc.com<br>Scott Metzger 847.238.4245<br>smetzger@mossinc.com |

| No. | Date | By | Notes |
|---|---|---|---|
| 1 | --- | DB | FOR SUBMITTAL TO CITY PLANNING |

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Checked: SB
Scale: AS NOTED
Date: --.--.21

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BURGER KING CORPORATION

TECHNICAL GROUP, inc.
37716 HILLS TECH DRIVE
FARMINGTON HILLS, MI 48331
P:(248) 426-8000 F:(248) 426-7004

07.13.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
MANUFACTURERS AND SUPPLIERS

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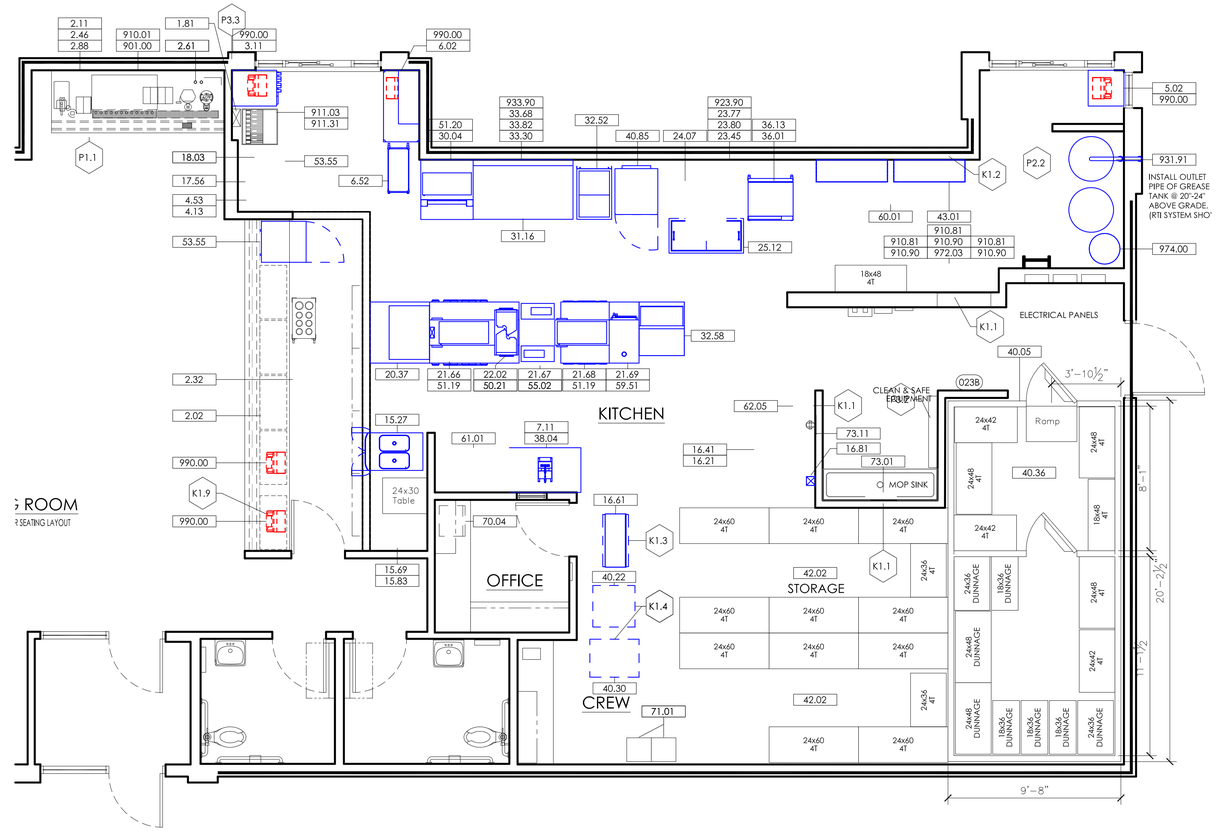
JOB # TG-21668

SHEET A-11

# KES EQUIPMENT SCHEDULE

| ITEM # | QTY. | DESCRIPTION | MANUFACTURER | MODEL # | UL # | NSF | |
|---|---|---|---|---|---|---|---|
| 1.81 | 1 | SERVICE CHASE | FRANKE | - | - | 2 | FRANKE |
| 2.02 | 10 | DRY STORAGE SHELVING | INTERMETRO | - | - | 2 | FRANKE |
| 2.04 | 20 | UNDERCOUNTER POST | INTERMETRO | - | - | 2 | FRANKE |
| 2.11 | 1 | CUP LID HOLDER | FRANKE | - | - | - | FRANKE |
| 2.32 | 1 | MOBILE CUP DISPENSER CART | FRANKE | - | - | 2 | FRANKE |
| 2.46 | 1 | STRAW DISPENSER | VOLLRATH | 3815-28 | - | 2 | FRANKE |
| 2.61 | 2 | UNIVERSAL CONDIMENT HOLDER | FRANKE | - | - | 2 | FRANKE |
| 2.88 | 1 | EXTREME COUNTERTOP DISPENSER | SERVER PRODUCTS | ECD 07500 | - | - | FRANKE |
| 3.11 | 1 | 24"W x 30"D DRIVE THRU TABLE W/CUP DISPENSER | FRANKE | - | - | 2 | FRANKE |
| 4.13 | 1 | DRIVE THRU TABLE W/ HAND SINK | FRANKE | 18006428 | - | 2 | FRANKE |
| 4.53 | 1 | DROP-IN-SINK | ADVANCE TABCO | DI-1-5 | - | 2 | FRANKE |
| 5.02 | 1 | POS TABLE | FFSUS | - | - | 2 | FRANKE |
| 6.02 | 1 | DRIVE THRU WORKSTATION | INTERMETRO | BKROC2448DT | - | 2 | FRANKE |
| 6.52 | 1 | 14" X 30" ORDER ASSEMBLY CART | INTERMETRO | BKBC1430 | - | - | FRANKE |
| 7.11 | 1 | SLICER, SABER KING | PRINCE CASTLE | 980-000-00 | - | 2 | FRANKE |
| 15.27 | 1 | HEAT TREAT COMBINATION SHAKE/SUNDAE MACHINE | TAYLOR | C606 | SA2650 | 6 | FRANKE |
| 15.69 | 1 | FROZEN BEVERAGE DISPENSER | FBD | 12-7361-0010 | - | 2 | FRANKE |
| 15.83 | 1 | FROZEN BEVERAGE DISPENSER CART | FBD | 12-2516-0003 | - | 2 | FRANKE |
| 16.21 | 1 | ICE MACHINE | HOSHIZAKI | KM1301SRJ-BK | - | 12 | FRANKE |
| 16.41 | 1 | ICE STORAGE BIN | HOSHIZAKI | B-800SF-BK | - | 2 | FRANKE |
| 16.61 | 1 | ICE MACHINE REMOTE CONDENSING UNIT | HOSHIZAKI | URC-14F | - | 2 | FRANKE |
| 16.81 | 1 | WALL SERVICE CHASE | FRANKE | - | - | 2 | FRANKE |
| 17.56 | 1 | INFUSION TEA COFFEE BREWER | BUNN-O-MATIC | ITCB-DV | - | 2 | FRANKE |
| 18.03 | 2 | ICED TEA DISPENSER - SLIM | BUNN-O-MATIC | - | - | - | FRANKE |
| 20.37 | 1 | 41" EXPEDITER STATION STD FLOW | FRANKE | EXPO5 | E163328 | 2 | FRANKE |
| 21.66 | 1 | 60" PREP MODULE "A" - (ABCD/ACBD) | FRANKE | - | - | 2 | FRANKE |
| 21.67 | 1 | 28" BUN TOASTER MODULE "B" | FRANKE | - | - | 2 | FRANKE |
| 21.68 | 1 | 32.5" PREP MODULE "C" | FRANKE | - | - | 2 | FRANKE |
| 21.69 | 1 | 20" PREP MODULE "D" | FRANKE | - | - | 2 | FRANKE |
| 22.02 | 1 | UNIVERSAL ONCUE MICROWAVE OVERSHELF | FRANKE | - | - | - | FRANKE |
| 23.45 | 1 | 91" BROILER HOOD | FRANKE | 18022081 | - | 2 | FRANKE |
| 23.77 | 1 | EXHAUST FAN | FRANKE | 18020256 | UL 762 | 2 | FRANKE |
| 23.80 | 1 | ROOF CURB | FRANKE | 18018809 | - | 2 | FRANKE |
| 24.07 | 1 | BROILER | DUKE | FBB-NO-120 | - | 4 | FRANKE |
| 25.12 | 1 | 50" MEAT WELL FREEZER | FRANKE | - | - | 2 | FRANKE |
| 30.04 | 1 | 35" FRY STATION - ROC | FRANKE | - | - | 4 | FRANKE |
| 31.16 | 1 | 3 - BANK FRYER | PITCO | BK-SSH60W/55/60W-FD | - | 4 | FRANKE |
| 32.52 | 1 | PRODUCT HOLDING FREEZER | FRANKE | - | - | 7 | FRANKE |
| 32.58 | 1 | REFRIGERATED BATTER STATION | H&K | 52976 | - | 7 | FRANKE |
| 33.30 | 1 | 67" FRYER HOOD | FRANKE | 18022081 | - | 2 | FRANKE |
| 33.68 | 1 | EXHAUST FAN | FRANKE | 18020256 | UL 762 | 2 | FRANKE |
| 33.82 | 1 | ROOF CURB | FRANKE | 18018809 | - | 2 | FRANKE |
| 36.01 | 1 | CONVECTION OVEN | LANG MANUF. | ECOH-PP2-08BK | - | - | FRANKE |
| 36.13 | 1 | CONVECTION OVEN STAND | FRANKE | - | - | 2 | FRANKE |
| 38.04 | 1 | 30"W x 24"D x 36"H WORK TABLE W/ 4" BACKSPLASH | FRANKE | - | - | 2 | FRANKE |
| 38.04 | 1 | 48"W x 30"D x 36"H WORK TABLE | FRANKE | - | - | 2 | FRANKE |
| 40.05 | 1 | WALK-IN COOLER/FREEZER BOX | NORLAKE | - | - | 7 | FRANKE |
| 40.22 | 1 | WALK-IN COOLER CONDENSING UNIT | NORLAKE | MHMD010AC | - | 7 | FRANKE |
| 40.30 | 1 | WALK-IN FREEZER CONDENSING UNIT | NORLAKE | MSLD020AC | - | 7 | FRANKE |
| 40.36 | 1 | WALK-IN COOLER EVAPORATOR | NORLAKE | E1MD0078A-TA2 | - | 7 | FRANKE |
| 40.41 | 1 | WALK-IN FREEZER EVAPORATOR | NORLAKE | E1LD0056B-TE2 | - | 7 | FRANKE |
| 40.85 | 1 | REACH-IN FREEZER | TURBO AIR | M3F24-2-N | - | 7 | FRANKE |
| 41.02 | 28 | COLD STORAGE SHELVING | INTERMETRO | - | - | 2 | FRANKE |
| 41.03 | 8 | RACK DUNNAGE - COLD | NEW AGE | - | - | 2 | FRANKE |
| 42.02 | 60 | DRY STORAGE SHELVING | INTERMETRO | - | - | 2 | FRANKE |
| 42.20 | 88 | POST | INTERMETRO | - | - | 2 | FRANKE |
| 43.01 | 1 | DOUBLE SMARTWALL SHELVING | INTERMETRO | BKSWP8446DBL | - | 3 | FRANKE |
| 50.21 | 2 | MICROWAVE | ACP | OC24HBK | - | 2 | FRANKE |
| 51.19 | 2 | MULTI-PRODUCT HOLDING UNIT | DUKE | HS2-34-2086T2R | - | 4 | FRANKE |
| 51.20 | 1 | MULTI-PRODUCT HOLDING UNIT | DUKE | HS2-24-2084T1R | - | 4 | FRANKE |
| 53.55 | 2 | REACH-IN UNDERCOUNTER REFRIGERATOR - FIELD REVERSIBLE DOOR | TURBO AIR | MUR-28-N-1C | - | 7 | FRANKE |
| 55.02 | 2 | RAPID VERTICAL TOASTER | ANTUNES | BKT-2V | - | 4 | FRANKE |
| 59.51 | 1 | EGG COOKER | A.J. ANTUNES & CO. | ES-1200 | E49407 | 4 | FRANKE |
| 60.01 | 1 | 3 COMPARTMENT SINK | FRANKE | - | - | 2 | FRANKE |
| 61.01 | 1 | ONE COMPARTMENT SINK W/ LH DRAINBOARD | FRANKE | - | - | 2 | FRANKE |
| 62.05 | 1 | HANDS-FREE WASH STATION SINK | JOHN BOOS | PBHS-W-KVMB-1 | - | 2 | FRANKE |
| 70.04 | 1 | SAFE W/ ANCHORING | FIRE KING SECURITY | BSD2920 | - | | FRANKE |
| 71.01 | 2 | LOCKER | PENCO PRODUCTS | EL/10/S/GRAY | - | - | FRANKE |
| 73.01 | 1 | WATER FILTER | EVERPURE | CB20-312E | - | 2 | FRANKE |
| 73.11 | 1 | FILTER FEEDER SCALE INHIBITOR | EVERPURE | SR-X | - | 2 | FRANKE |
| 901.00 | 1 | 9'-8" ROC MAIN BEVERAGE STATION | FRANKE | 18023142 | - | 2 | OTHERS |
| 910.01 | 1 | ICE/SODA DISPENSER | LANCER | IBD 4500-44 | UL763 | 18 | OTHERS |
| 910.81 | 3 | CARBONATOR | LANCER | 85-1923-00 | UL403 | 2 | OTHERS |
| 910.90 | 3 | SHELF CARBONATOR F/ LANCER | LANCER | 82-3876 | - | 2 | OTHERS |
| 911.03 | 1 | ICE/SODA DISPENSER | LANCER | 85-2378T-124 | - | 18 | OTHERS |
| 911.31 | 1 | ICE/SODA CONVERSION STAND | LANCER | 84-0058 | - | 2 | OTHERS |
| 923.90 | 1 | FIRE PROTECTION SYSTEM | VERIFY | VERIFY | - | - | OTHERS |
| 931.91 | 1 | SHORTENING DISPOSAL CADDY SYSTEM | DARLING INT. | 1500-C | - | 2 | OTHERS |
| 933.90 | 1 | FIRE PROTECTION SYSTEM | VERIFY | VERIFY | - | - | OTHERS |
| 972.03 | 1 | BAG-N-BOX SYRUP RACK | CORNELIUS | 621065776 | - | 2 | OTHERS |
| 974.00 | 1 | CO2 BULK SYSTEM | VERIFY | VERIFY | - | - | OTHERS |
| 990.00 | 5 | P.O.S. SYSTEM | VERIFY | VERIFY | - | - | OTHERS |




## EQUIPMENT PLAN

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

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INQUOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP, Inc.
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FARMINGTON HILLS, MI 48331
T:(248) 762-8000 F:(248) 426-7004

AZIZ S. BOU-MARO REGISTERED No. 910381 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

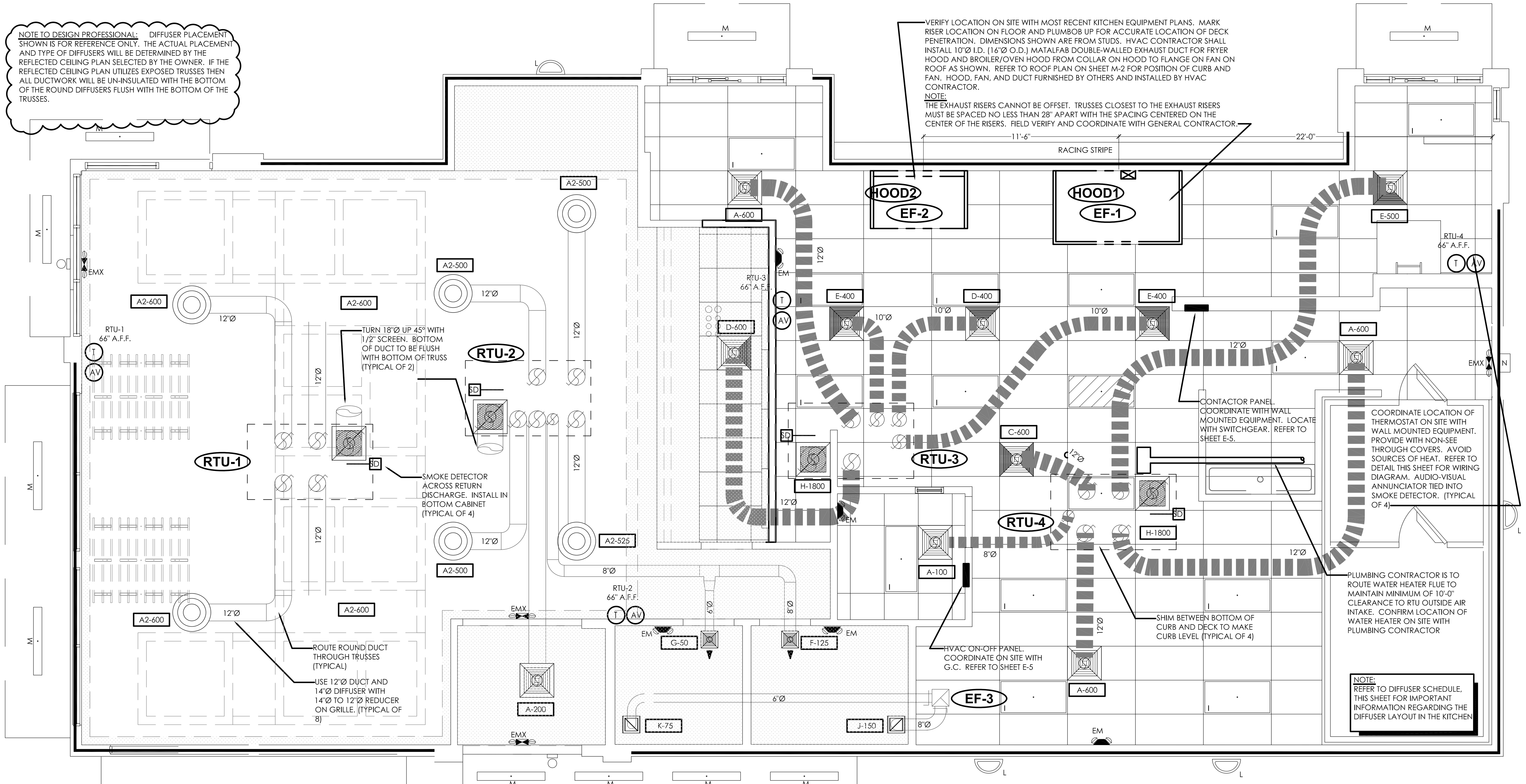
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
EQUIPMENT PLAN

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET EQ-1




## H.V.A.C. PLAN
SCALE: 1/4" = 1'-0"

## PLENUMIZED CURB INSTALLATION NOTES

1. CAREFULLY LOCATE AND MARK ROOF CURB LOCATIONS SO THAT DUCT WORK CAN BE INSTALLED IN THE APPROXIMATE LOCATIONS AS SHOWN BY THE FLOOR PLAN. PAY ATTENTION TO THE LOCATION OF THE ROOF STRUCTURE IN ORDER TO ACCOMMODATE THE DUCT DROPS.
2. MARK THE EXACT LOCATION OF EACH ROOF CURB. LAY OUT ALL EQUIPMENT LOCATIONS IN ORDER TO MAINTAIN PROPER CLEARANCES FROM EXHAUST FANS AND VENTS AS WELL AS PROVIDING FOR PROPER SERVICE CLEARANCES.
3. GENERAL CONTRACTOR SHALL CUT ROOF DECKING MATERIAL TAKING CARE TO AVOID CUTTING ANY STRUCTURAL COMPONENTS. GENERAL CONTRACTOR SHALL ALSO INSTALL ANY NECESSARY FRAMING OR BLOCKING AT OPENINGS.
4. WITH ROOF CURB UPSIDE DOWN (SOLID METAL BOTTOM UP) MEASURE AND MARK THE LOCATION OF ANY JOISTS OR OTHER FRAMING MEMBERS THAT MUST BE AVOIDED. MEASURE AND MARK THE LOCATION OF ALL THE DUCT TAPS.
5. CUT ALL DUCT TAPS INTO THE BOTTOM PANEL OF THE ROOF CURB. BE CAREFUL NOT TO DAMAGE THE ROOFING SURFACE WHILE MAKING THESE CUTS.
6. INSTALL DUCT TAP FITTINGS AND MANUAL DAMPERS INTO THE OPENINGS PREVIOUSLY CUT. SEAL ALL CONNECTIONS ON BOTH THE BOTTOM AND THE TOP SIDES OF THE TAPS.
7. FLATTEN TAB OF START COLLAR INSIDE CURB, TIGHT AGAINST INSULATION. SEAL INSIDE OF COLLAR AND TABS TO INSULATION USING MASTIC DUCT SEALER. ALLOW SEALER TO DRY PRIOR TO PROCEEDING.
8. APPLY DUCT SEALER TO OPEN END OF COLLAR. SLIDE INNER CORE OF FLEXIBLE DUCT ONTO COLLAR, AND CONNECT PANDUIT STRAP PER MANUFACTURERS INSTRUCTIONS.
9. SLIDE OUTER INSULATION SLEEVE OF FLEX TIGHT TO BOTTOM OF CURB. SEAL INSULATION TO BOTTOM OF CURB WITH PRESSURE-SENSITIVE FOIL TAPE. DO NOT USE TAPE MEANT FOR RIGID DUCTBOARD. SQUEEGEE OUT ALL AIR BUBBLES FOR PROPER ADHESION.
10. TURN CURB RIGHT SIDE UP, LEVEL CURB BETWEEN BOTTOM OF CURB AND DECK, INSTALL IN ROOF OPENING. SECURE CURB TO ROOF FRAMING AS REQUIRED.
11. GENERAL CONTRACTOR OR ROOFING CONTRACTOR SHALL FLASH AND ROOF IN THE CURB AS DETAILED ON THE DRAWINGS.
12. INSIDE BUILDING, THE DUCT RUNS SHALL BE INSTALLED FROM THE TAPS TO THE DIFFUSER LOCATIONS AS SHOWN ON THE PLANS. SUPPORT PER SMACNA AND LOCAL CODES.
13. NOTE: IF NECESSARY, FLEX DROPS MAY BE CONNECTED TO TAPS AFTER CURB HAS BEEN INSTALLED. REFER TO STEPS #8 AND #9.

## AIR BALANCE SCHEDULE

| TAG | SUPPLY AIR | OUTSIDE AIR | RETURN AIR | EXHAUST AIR | BLDG. PRESSURE | % OUTSIDE AIR |
|---|---|---|---|---|---|---|
| RTU-1 | 2400 CFM | 600 CFM | 1800 CFM | | + 600 CFM | 25 |
| RTU-2 | 2400 CFM | 600 CFM | 1800 CFM | --- | + 600 CFM | 25 |
| RTU-3 | 2400 CFM | 600 CFM | 1800 CFM | --- | + 600 CFM | 25 |
| RTU-4 | 2400 CFM | 600 CFM | 1800 CFM | --- | + 600 CFM | 25 |
| | | | | | | |
| EF-1 | --- | --- | --- | 1100 CFM* | - 1100 CFM | --- |
| EF-2 | --- | --- | --- | 800 CFM* | - 800 CFM | --- |
| EF-3 | --- | --- | --- | 225 CFM | - 225 CFM | --- |
| | | | | | | |
| TOTAL | 9600 CFM | 2400 CFM | 7200 CFM | 2125 CFM | + 275 CFM | 25 |

*NOTE: UPON START-UP VERIFY THAT THE EXHAUST FAN CURRENT SENSOR IS SET TO THE MOTOR AMPERAGE. IF IT IS NECESSARY TO ADJUST THE AMPERAGE OF THE EXHAUST HOOD FAN MOTOR, THE FAN MOTOR CURRENT SENSOR MUST BE RESET BY THE ELECTRICAL CONTRACTOR AS FOLLOWS: ADJUST UNDERCURRENT POTENTIOMETER TO MINIMUM (CLOCKWISE IS MAXIMUM.) APPLY CURRENT. ONCE CURRENT IS STABILIZED, INCREASE UNDERCURRENT POT UNTIL RED LED LIGHTS. WITHIN SEVEN SECONDS TURN DOWN UNTIL RED LIGHT TURNS OFF. IF A LIGHT REMAINS ON FOR MORE THAN TEN SECONDS, DISCONNECT SUPPLY VOLTAGE TO RESET. SEE MANUFACTURERS OPERATION-INSTALLATION INSTRUCTIONS THAT SHIP WITH THE FAN. WITH LIMITED BUILDING PRESSURE, THE ±10% TOLERANCE IS NOT ACCEPTABLE. SET CFM AS SPECIFIED. ENSURE THAT EXHAUST FAN PULLEY IS ADJUSTED FOR PROPER ALIGNMENT.

## AIR DEVICE SCHEDULE

| SYM. | SIZE | TYPE | DUCT SIZE | MODEL# | FINISH | BOOT SIZE | OPENING SIZE | QTY. |
|---|---|---|---|---|---|---|---|---|
| A* | 24X24 | SUPPLY 4 WAY | 12"Ø | NCA12 | WHITE | 12"Ø | T-BAR | 5 |
| A2** | 26"Ø | SUPPLY ROUND | 12"Ø* | PARCD-14 | WHITE | --- | --- | 8 |
| B* | 24X24 | SUPPLY 3 WAY | 12"Ø | NCA12-3 | WHITE | 12"Ø | T-BAR | 0 |
| C* | 24X24 | SUPPLY 2 WAY (PARALLEL) | 12"Ø | NCA12-2P | WHITE | 12"Ø | T-BAR | 1 |
| D* | 24X24 | SUPPLY 3 WAY | 10"Ø | NCA12-2C | WHITE | 10"Ø | T-BAR | 2 |
| E* | 24X24 | SUPPLY 2 WAY (CORNER) | 10"Ø | NCA10-3 | WHITE | 12"Ø | T-BAR | 3 |
| F | 12X12 | SUPPLY 1 WAY W/O.B.D. | 8"Ø | 630 | WHITE | 12X12 | SIZE + 1/4" | 1 |
| G | 12X12 | SUPPLY 1 WAY W/O.B.D. | 6"Ø | 630 | WHITE | 12X12 | SIZE + 1/4" | 1 |
| H | 24X24 | RETURN | 18"Ø | 630TB | WHITE | 22X22 | T-BAR | 4 |
| J | 12X12 | EXHAUST | 8"Ø | 630 | WHITE | 12X12 | SIZE + 1/4" | 1 |
| K | 12X12 | EXHAUST | 8"Ø | 630 | WHITE | 12X12 | SIZE + 1/4" | 1 |

ALL DIFFUSERS SHALL BE MANUFACTURED BY METALAIRE OR EQUIVALENT AND 100% ALUMINUM CONSTRUCTION
* PROVIDE WITH PVCR9 SLIDING-BLADE DAMPER
** PROVIDE WITH EIGHT 14"Ø-TO-12"Ø REDUCERS FOR INSTALLATION ON TOP OF DIFFUSERS
NOTE: LOCATION AND ORIENTATION OF DIRECTIONAL BLOW PATTERN DIFFUSERS IN THE KITCHEN IS CRITICAL. INSTALLER WILL ENSURE PROPER INSTALLATION OF DIFFUSERS. CONTACT THE NCA CONSULTANTS PROJECT COORDINATOR IMMEDIATELY WITH ANY CONFLICTS THAT PREVENT INSTALLATION PER THE PROPOSED DESIGN.

## PACKAGE ROOFTOP UNIT SCHEDULE (RTU-1,2,3,4)

| | |
|---|---|
| TAG | RTU-1, 2, 3, 4 |
| MANUFACTURER | TRANE |
| MODEL | YSC072A3EMA (6 TON) |
| LOCATION, CURB DIMENSIONS | ROOF, 80" X 46" |
| TYPE OF HEAT | NATURAL GAS |
| TOTAL COOLING CAPACITY, MBTU/HR | 75.0 |
| SENSIBLE COOLING CAPACITY, MBTU/HR | 53.2 |
| ENTERING AIR CONDITIONS, DB°F/WB°F | 80/67 |
| AMBIENT AIR DB TEMPERATURE, °F | 95 |
| SUPPLY AIR, CFM | 2400 |
| OUTSIDE AIR, CFM | SEE SCHEDULE |
| EXTERNAL STATIC PRESSURE, "WG | 0.75 |
| BHP - MEDIUM STATIC MOTOR | 2.2 |
| E.E.R. | 11.2 |
| GAS INPUT MBTU/HR | 105/150 |
| GAS OUTPUT MBTU/HR | 84/120 |
| UNIT WEIGHT, LBS. | 950 |
| ELECTRICAL REQUIREMENT, V/PHASE/HZ | 208-230/3/60 |
| MINIMUM CIRCUIT AMPERAGE | 36.5 |
| MAXIMUM OVER CURRENT PROTECTION | 50 |

ACCESSORIES:
1. 100% ECONOMISER WITH BAROMETRIC RELIEF
2. NCA PLENUMIZED CURB. TO ORDER CALL TOLL-FREE (877) 530-0078.
3. ONE YEAR COMPLETE PARTS AND LABOR WARRANTY
4. ADDITIONAL FOUR YEAR PARTS WARRANTY COVERING COMPRESSORS
5. SMOKE DETECTOR (SEE HVAC ROOF PLAN, SHEET M-2)
6. AQUAGUARD AG-3180E MOISTURE SENSOR FOR PRIMARY PAN
NOTE: COORDINATE RTU PLACEMENT ON SITE PRIOR TO SETTING EQUIPMENT. IF ADJUSTMENT IS NECESSARY MAINTAIN FRESH AIR INTAKE CLEARANCES

## FAN SCHEDULE

| TAG | EF-1 | EF-2 | EF-3 |
|---|---|---|---|
| MANUFACTURER | COOK | COOK | COOK |
| MODEL | 120 CPS-BK | 100 CPS-BK | 100C10DH |
| LOCATION | ROOF | ROOF | ROOF |
| AREA SERVED | BROILER | FRYERS | RESTROOM |
| CFM | 1100* | 800* | 225 |
| STATIC PRESSURE, "WG | 1.85" | 2.5" | 0.25 |
| FAN HORSEPOWER | 1.0 | 1.0 | 1/25 |
| FAN RPM | 1957 | 2675 | 911 |
| DRIVE | BELT | BELT | DIRECT |
| ELECTRICAL REQUIREMENT, V/Ø/HZ | 208-230/1/60 | 208-230/1/60 | 120/1/60 |
| ROOF OPENING, INCHES | 22X22 | 22X22 | 13.5X13.5 |
| ROOF CURB | YES | YES | YES |
| BACKDRAFT DAMPER | NO | NO | YES |
| BIRDSCREEN | NO | NO | YES |
| GREASE TROUGH | YES | YES | NO |
| INTERLOCK | YES | YES | NO |

* SEE AIR BALANCE SCHEDULE
NOTE: VERIFY ALL INFORMATION WITH MANUFACTURER PRIOR TO ORDERING AND INSTALLATION

## NCA HVAC EQUIPMENT PACKAGE

PLAN AND SPECIFICATIONS AS PER P.E. SEAL

BURGER KING CORPORATION HAS A NATIONAL ACCOUNT AGREEMENT WITH THE NCA GROUP. NCA SHALL VISIT THE SITE, AS AUTHORIZED, TO VERIFY ALL MATERIALS, EQUIPMENT, AND INSTALLATION ARE PER THE PROFESSIONAL ENGINEER SEAL. PLANS ARE NCA DESIGN COPYRIGHT 2018.

FOR COMPLETE INFORMATION AND PRICING ON THE FOLLOWING PACKAGE OF EQUIPMENT AND ACCESSORIES CONTACT THE NCA GROUP MARKETING DEPARTMENT TOLL-FREE AT (877) 530-0078.

HEATING COOLING EQUIPMENT PACKAGE
INCLUDES ALL ROOFTOP (OR SPLIT SYSTEM) AIR CONDITIONING EQUIPMENT WITH ALL ACCESSORIES AS SPECIFIED ON THESE PLANS.

FAN PACKAGE
INCLUDES ALL FANS WITH ALL ACCESSORIES AS SPECIFIED ON THESE PLANS.

AIR DEVICE PACKAGE
INCLUDES ALL GRILLES, REGISTERS AND DIFFUSERS PER PLANS. SQUARE TO ROUND TRANSITIONS PROVIDED WHERE REQUIRED.

CURB PACKAGE
INCLUDES ONE-PIECE, FULLY WELDED NCA PLENUMIZED ROOF CURBS FOR ALL ROOF MOUNTED HEATING/COOLING EQUIPMENT, AND ALL FAN CURBS. ALTERNATIVES TO NCA PLENUMIZED CURBS MAY NOT BE USED.

EXHAUST HOOD PACKAGE
INCLUDES EXHAUST FANS, HOODS, SHROUDS AND ANSUL SYSTEM, AS CODE REQUIRES.

CONTROLS PACKAGE
INCLUDES PRESET DIGITAL THERMOSTATS, THERMOSTAT WIRE, LOCKING COVERS, AND AS CODE REQUIRES SMOKE DETECTORS AND AUDIBLE-VISUAL DEVICES; OCCUPIED/UNOCCUPIED PANEL, AND INTERLOCK PANEL, IF REQUIRED.

NOTE: "RE-ENGINEERING" DEVIATIONS FROM THE SHOWN DESIGN AND REQUIRED HVAC EQUIPMENT MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND PROFESSIONAL ENGINEER. UNAUTHORIZED SUBSTITUTIONS OR ALTERATIONS WILL VOID THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER AND LEAVE VIOLATORS RESPONSIBLE FOR RESUBMISSION OF SIGNED AND SEALED DRAWINGS

HVAC SYSTEM
**N • C • A**
CONSULTANTS/GROUP
NATIONAL CORPORATE ACCOUNT SERVICES, INC.

**DRAWINGS SHOWN ARE FOR PROTOTYPICAL CONSIDERATIONS ONLY. SITE-SPECIFIC DESIGN IS REQUIRED BY BURGER KING CORPORATION. AS A COURTESY, NCA CONSULTANTS PROVIDES SITE-SPECIFIC DESIGN WITH SITE-SPECIFIC PROFESSIONAL ENGINEER SEAL UNDER AN AGREEMENT BETWEEN NCA CONSULTANTS AND BURGER KING CORPORATION.**

**FOR SITE-SPECIFIC DESIGN, ARCHITECTS EMAIL REFLECTED CEILING PLAN, ELEVATIONS, KITCHEN PLANS, FLOOR PLAN, SITE PLAN, EXTERIOR ELEVATIONS, AND ROOF STRUCTURAL PLAN TO DESIGN@NCACONSULTANTS.COM**

**TO CONTACT THE NCA CONSULTANTS BY PHONE, CALL TOLL-FREE (877) 530-0078.**

| DATE | DESCRIPTION | BY |
|---|---|---|
| 10-12-18 | PROTOTYPE USE ONLY | KM |

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ATTENTION GENERAL CONTRACTOR: "RE-ENGINEERING" DEVIATIONS FROM THE SHOWN DESIGN AND REQUIRED HVAC EQUIPMENT MUST BE APPROVED IN ADVANCE BY THE ARCHITECT AND PROFESSIONAL ENGINEER. UNAUTHORIZED SUBSTITUTIONS OR ALTERATIONS WILL VOID THE SIGNATURE AND SEAL OF THE PROFESSIONAL ENGINEER AND LEAVE VIOLATORS RESPONSIBLE FOR RESUBMISSION OF SIGNED AND SEALED DRAWINGS.

## CONTRACTORS NOTES

HVAC CONTRACTOR
1. THE HVAC CONTRACTOR SHALL FURNISH AND INSTALL THE HVAC SYSTEM AS SHOWN IN THE NCA HVAC EQUIPMENT PACKAGE NOTE, THIS SHEET. ALL FANS SHALL BE U.L. LISTED.
2. THE HVAC CONTRACTOR SHALL INSTALL THE EXHAUST HOOD. REFER TO MOST RECENT KITCHEN PLANS ON SITE. HOOD EXHAUST DUCT IS FACTORY-MANUFACTURED, NON-WELD, DOUBLE-WALLED DUCT WITH ZERO-CLEARANCE TO COMBUSTIBLES RATING. MANUFACTURED BY METAL-FAB. INSTALL ALL HOOD EXHAUST DUCT PER MANUFACTURERS PUBLISHED REQUIREMENTS THAT SHIP WITH THE DUCTWORK. VERIFY LOCATION ON SITE WITH MOST RECENT KITCHEN EQUIPMENT PLAN.
3. ALL AIR CONDITIONING UNIT CURBS SHALL BE SUPPLIED BY NCA CONSULTANTS.
4. ALL AIR CONDITIONING UNIT CURBS SHALL BE FABRICATED BY NCA CONSULTANTS FROM 18 GA. GALVANIZED METAL WITH WELDED SEAMS, WATER TIGHT AND INTERNALLY INSULATED.
5. SHIMS SHALL BE PROVIDED BY HVAC CONTRACTOR BETWEEN THE ROOF DECK AND THE CURB AS NEEDED TO COMPENSATE FOR ROOF PITCH.
6. ALL FLEX DUCT SHALL BE FOIL-BACKED, R-6, U.L. LISTED, CLASSIFIED AS A CLASS 1 AIR DUCT, AND MEET LOCAL CODE REQUIREMENTS.
7. EXCLUDING ANY EXPOSED DUCTWORK, ALL NON-FLEXIBLE DUCT AND ALL AIR DISTRIBUTION DEVICES SHALL BE INSULATED WITH R-6, 2" X .75 DENSITY FOIL-BACKED INSULATION, WITH FIRE AND SMOKE RATING [25]-[50].
8. ALL DUCTWORK SHALL BE INDEPENDENTLY HUNG FROM STRUCTURAL MEMBERS.
9. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED PER SMACNA LOW-VELOCITY DUCT MANUAL (LATEST ISSUE).
10. UNLESS OTHERWISE NOTED, EVERY SUPPLY TAP COLLAR SHALL HAVE A LOCKING MANUAL VOLUME DAMPER.
11. THE HVAC CONTRACTOR SHALL COORDINATE DIFFUSER LOCATIONS ON SITE WITH THE MOST RECENT REFLECTED CEILING PLAN.
12. THE HVAC CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE COVERING A ONE-YEAR PERIOD FOR ALL EQUIPMENT AND AN ADDITIONAL FOUR-YEAR PERIOD FOR THE COMPRESSORS IN THE AIR CONDITIONING UNITS.
13. UPON COMPLETION OF PROJECT THE HVAC CONTRACTOR SHALL HIRE AN A.A.B.C. OR N.E.B.B. CERTIFIED, INDEPENDENT TEST AND BALANCE COMPANY TO CONDUCT A COMPLETE, CERTIFIED TEST AND BALANCE OF ALL HVAC EQUIPMENT. PROVIDE A WRITTEN REPORT TO NCA CONSULTANTS. ALL CAPACITIES MUST BE SET TO AMOUNTS INDICATED ON THE FLOOR PLANS AND SCHEDULES.
14. THE HVAC CONTRACTOR SHALL VERIFY LOCATIONS OF THE EXHAUST HOOD AND EF-1 FROM MOST RECENT KITCHEN EQUIPMENT PLANS ON SITE. THIS IS TO ENSURE NO OFFSETS IN EXHAUST DUCTWORK.
15. HVAC CONTRACTOR IS TO MAKE ALL LOW-VOLTAGE WIRING FINAL CONNECTIONS FOR ALL HVAC EQUIPMENT INCLUDING SENSORS, THERMOSTATS, AUDIO-VISUAL ANNUNCIATORS, ROOF-TOP UNITS, SMOKE DETECTORS, CONTACTOR PANEL, AND CONTROL PANEL.

GENERAL CONTRACTOR
1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO RECEIVE, OFFLOAD, AND STORE ALL HVAC MATERIALS WHICH ARRIVE AT THE JOB SITE. JOINT EFFORT BETWEEN G.C. AND M.C. SHALL BE UNDERTAKEN TO POSITION HOODS IN THE KITCHEN, FOR INSTALLATION.
2. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENING TO ENSURE THAT NO OFFSETS ARE REQUIRED IN THE EXHAUST DUCTWORK FROM THE KITCHEN HOOD. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT PLAN AND EXHAUST HOOD PLANS. OBTAIN THE CORRECT PLANS FROM THE KITCHEN EQUIPMENT SUPPLIER.
3. RTU ROOF OPENING SIZES AND ROOF CURBS ARE BASED ON EQUIPMENT SHOWN. IF OTHER EQUIPMENT IS USED, VERIFY ROOF OPENING REQUIREMENTS. MAKE PENETRATION AS NEEDED FOR INSTALLATION OF NEW CURB AND RTU. COORDINATE ON SITE WITH HVAC CONTRACTOR. ENSURE THAT ROOFING MATERIAL DOES NOT COVER THE TOP OF ANY HVAC EQUIPMENT CURB.
4. ANY FRAMING REQUIRED FOR HVAC WORK SHALL BE BY THE GENERAL CONTRACTOR.
5. GENERAL CONTRACTOR IS TO PROVIDE ANY SCREENING, GUARD RAILS, ETC. FOR ROOF-MOUNTED HVAC EQUIPMENT PER IBC AND LOCAL CODES.
6. ANY EXPOSED HVAC WORK IN THE DINING ROOM IS TO BE PREPARED, PRIMED, AND PAINTED BY THE GENERAL CONTRACTOR.
7. NOTE: EXCLUDING THE DUCT THAT SHIPS WITH THE HOODS, THE EXHAUST RISERS CANNOT HAVE ADDITIONAL, 'FIELD' OFFSETS. TRUSSES CLOSEST TO THE EXHAUST RISERS MUST BE SPACED SO THAT NO ADDITIONAL OFFSETS ARE NEEDED. FIELD VERIFY AND COORDINATE WITH GENERAL CONTRACTOR.

ELECTRICAL CONTRACTOR
1. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL PITCH POCKETS FOR POWER AND CONTROL WIRING TO MAINTAIN 12" MINIMUM CLEARANCE FROM BACK PANEL OF AIR CONDITIONING UNITS AND EXHAUST FANS. ELECTRICAL CONTRACTOR SHALL NOT PENETRATE BOTTOM OF RTU CURB AND EXHAUST FANS.
2. THE ELECTRICAL CONTRACTOR SHALL INSTALL THE CONTACTOR PANEL, ON-OFF PANEL, AND LOW-VOLTAGE CONTROL WIRING FOR ALL AIR CONDITIONING UNITS AND CONTROLS. COORDINATE AIR CONDITIONING AND ELECTRICAL PLANS. REFER TO SHEET E-5 FOR PANEL INFORMATION. FOR PROJECTS WITHOUT A PANEL THE ELECTRICAL CONTRACTOR WILL INTERLOCK THE COOKING APPLIANCE AND HVAC EQUIPMENT PER NFPA96.
3. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECTS FOR ALL HVAC EQUIPMENT.
4. THE ELECTRICAL CONTRACTOR SHALL USE A MINIMUM OF 4'-6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MAY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.
5. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ANY ADDITIONAL INTERLOCK REQUIRED BY LOCAL CODE BETWEEN THE HVAC EQUIPMENT, SMOKE DETECTORS, EXHAUST FANS, AND COOKING APPLIANCES.
6. ELECTRICAL CONTRACTOR SHALL RUN LINE VOLTAGE FROM THE CURRENT SENSOR LOCATED IN THE GREASE EXHAUST FAN TO THE CONTACTOR PANEL LOCATED BY THE SWITCHGEAR.
7. FOR EACH UNIT, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ONE SINGLE-GANG RECEPTACLE TEST STATION FOR THE REMOTE SENSOR, AND ONE DOUBLE-GANG RECEPTACLE TEST STATION FOR THE ANNUNCIATOR, WITH GREEN AND RED LIGHT INDICATORS. THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE ADDITIONAL RECEPTACLES IN MANAGERS OFFICE FOR THERMOSTATS.

PLUMBING CONTRACTOR
1. THE PLUMBING CONTRACTOR IS TO PROVIDE AND INSTALL PITCH POCKETS FOR CONDENSATE DRAINS/GAS PIPING FOR ALL A/C UNITS AND EXHAUST FANS. PLUMBING CONTRACTOR SHALL NOT PENETRATE BOTTOM OF RTU CURB.
2. THE PLUMBING CONTRACTOR TO COORDINATE PLUMBING VENT STACKS WITH OUTSIDE AIR INTAKES OF A/C UNITS. MAINTAIN 10'-0" MINIMUM CLEARANCE OR PER LOCAL CODE.
3. THE PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL FLUE GAS EXHAUST VENT FOR WATER HEATER. MAINTAIN 10'-0" MINIMUM HORIZONTAL OR 3' VERTICAL CLEARANCE TO AIR INTAKES.

UPON COMMENCEMENT OF ROUGH-IN AS SCHEDULED BY NCA CONSULTANTS, THE AIR CONDITIONING CONTRACTOR IS TO REMAIN ON THE JOB SITE FULL TIME UNTIL THE ROUGH-IN IS 100% COMPLETE. THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT WILL VERIFY.
UPON COMMENCEMENT OF TRIM-OUT AS SCHEDULED BY NCA CONSULTANTS, THE AIR CONDITIONING CONTRACTOR IS TO REMAIN ON THE JOB SITE FULL TIME UNTIL THE TRIM-OUT IS 100% COMPLETE. THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT WILL VERIFY.

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

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Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP, inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P:(248) 426-8000 F:(248) 426-7004

AZIZ S. BOU-MAROUN REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST,
ELKHART, IN 46514

SHEET TITLE
H.V.A.C. PLAN AND SCHEDULES

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET M-1

HVAC SYSTEM

**N • C • A**

CONSULTANTS/GROUP

NATIONAL CORPORATE ACCOUNT SERVICES, INC.

DRAWINGS SHOWN ARE FOR PROTOTYPICAL CONSIDERATIONS ONLY. SITE-SPECIFIC DESIGN IS REQUIRED BY BURGER KING CORPORATION. AS A COURTESY, NCA CONSULTANTS PROVIDES SITE-SPECIFIC DESIGN WITH SITE-SPECIFIC PROFESSIONAL ENGINEER SEAL UNDER AN AGREEMENT BETWEEN NCA CONSULTANTS AND BURGER KING CORPORATION.

FOR SITE-SPECIFIC DESIGN, ARCHITECTS EMAIL REFLECTED CEILING PLAN, ELEVATIONS, KITCHEN PLANS, FLOOR PLAN, SITE PLAN, EXTERIOR ELEVATIONS, AND ROOF STRUCTURAL PLAN TO DESIGN@NCACONSULTANTS.COM

TO CONTACT THE NCA CONSULTANTS BY PHONE, CALL TOLL-FREE (877) 530-0078.

| DATE | DESCRIPTION | BY |
|---|---|---|
| 10-2-14 | PROTOTYPE USE ONLY | KM |

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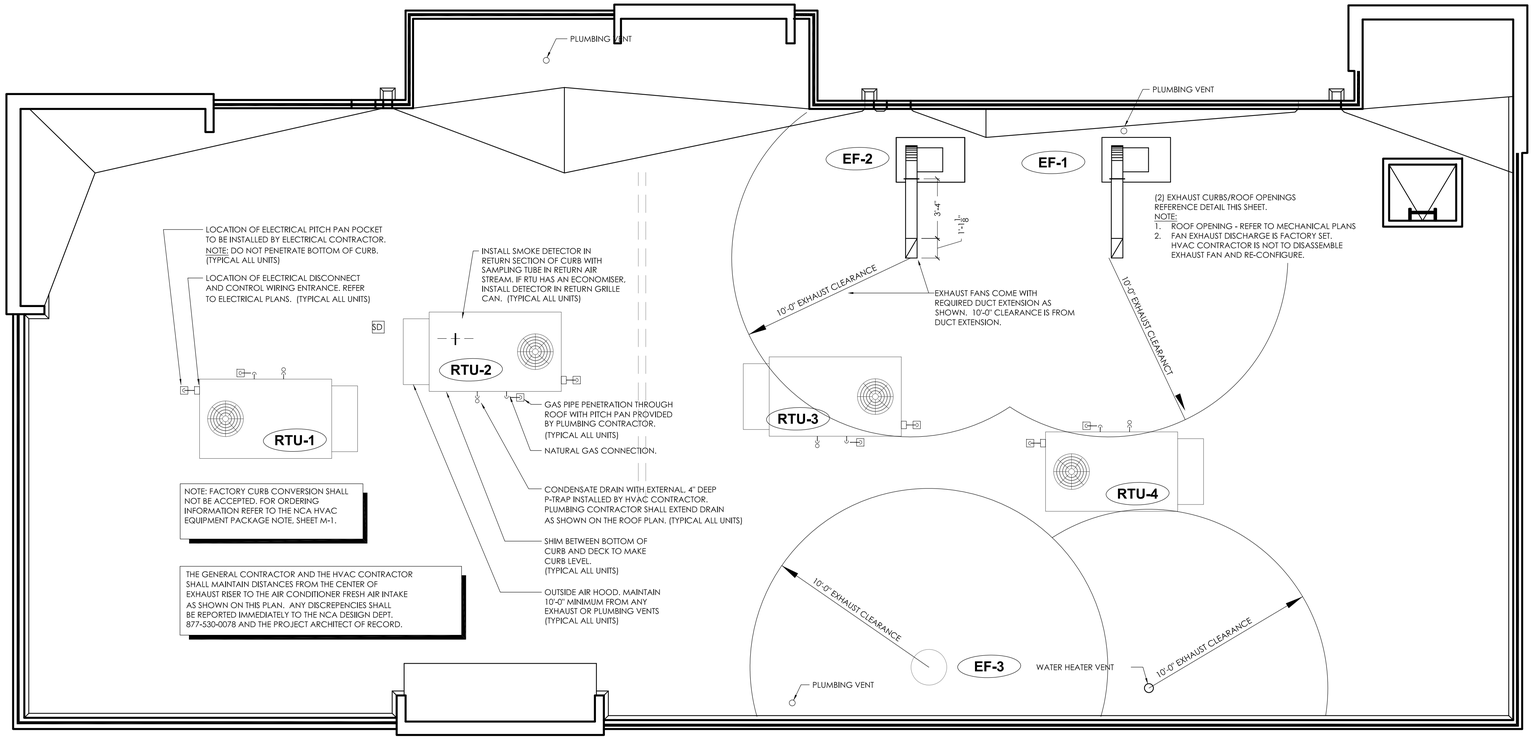
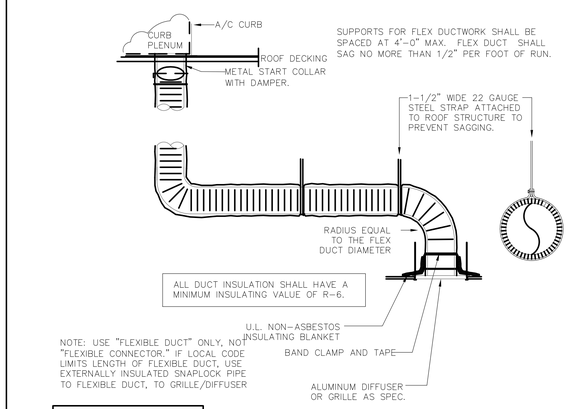



## H.V.A.C. ROOF PLAN

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



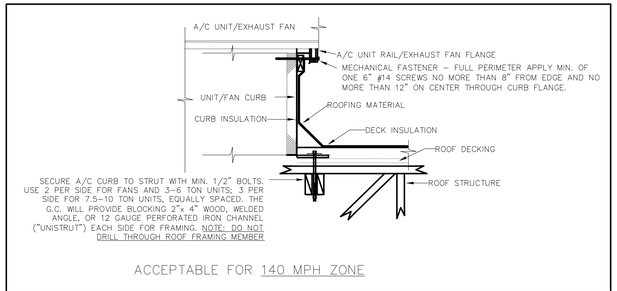

| DUCT SCHEDULE | |
|---|---|
| SIZE | GAUGE |
| 6"ø – 8"ø | 28 |
| 10"ø – 12"ø | 26 |
| 14"ø – 16"ø | 24 |
| 18"ø – 20"ø | 22 |

DUCT SUPPORT

SUPPORT DUCTWORK WITH 1-1/2" WIDE 22 GAUGE STEEL STRAPS FIRMLY ATTACHED TO THE BUILDING STRUCTURE. SPACING SHALL BE MAXIMUM 10-0" FOR RIGID DUCTWORK, AND MINIMUM 4'-0" FOR FLEXIBLE DUCTWORK. 12 GAUGE WIRE MAY BE SUBSTITUTED FOR STRAPS IF 1-1/2" WIDE 22 GAUGE STEEL SADDLES ARE USED TO FULLY ENCIRCLE DUCT. REFER TO THE HVAC DUCT CONSTRUCTION STANDARDS PUBLISHED BY SMACNA FOR ADDITIONAL DETAILS. FULLY COMPLY WITH MECHANICAL CODES.

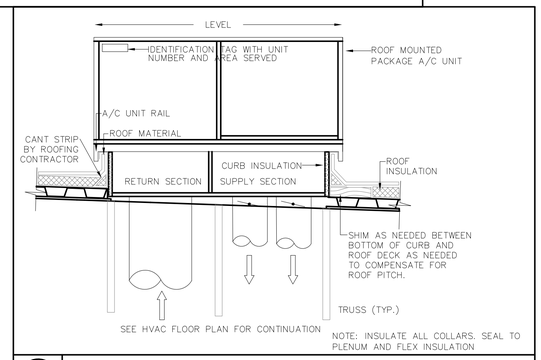
### FLEXDUCT CONNECTION/INSTALL DETAIL

NOT TO SCALE



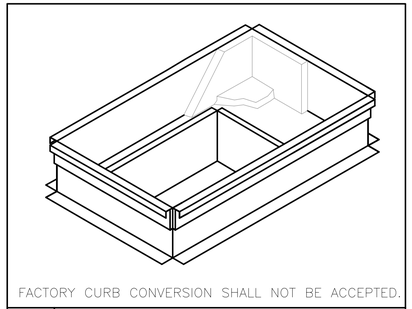

### ROOF EQUIP. CURB MOUNTING DETAIL

NOT TO SCALE




### DUCT RISER/LEVELING DETAIL

NOT TO SCALE




### NCA PLENUMIZED AC CURB DETAIL

NOT TO SCALE

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| 6 | 09.06.2022 | JB | IN-DOT SUBMITTAL |

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TGi TECHNICAL GROUP, Inc.
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P: (248) 560-8000 F: (248) 420-7004

AZIZ S. BOU-MARON
REGISTERED
No. 910361
STATE OF INDIANA
PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
H.V.A.C. ROOF PLAN AND DETAILS

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JOB #
TG-21668

SHEET
M-2

7'-7" NORTH AMERICAN BROILER/OVEN HOOD

FOR BURGER KING CORPORATION

BROILER/OVEN HOOD MODEL: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7)

Manufactured by:

GAYLORD INDUSTRIES

10900 SW. AVERY ST.
TUALATIN, OREGON 97062
UNITED STATES OF AMERICA
PHONE: 503-691-2010
EMAIL: INFO@GAYLORDUSA.COM

Drwg no.: C-12644

Sheet: 1
Rev. :05

MODEL NUMBER DESCRIPTION

BROILER/OVEN HOOD MODEL NUMBER DESCRIPTION
ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7)

- HOOD LENGTH IN FT.-IN.
- BROILER/OVEN HOOD
- NORTH AMERICA HOOD
- CUSTOMER I.D.
- HOOD DEPTH
- OUTBOARD EXTRACTORS
- WALL MOUNTED PROXIMITY STYLE
- SERIES

DRAWING INDEX



| Sheet # | Description |
|---|---|
| 01 | COVER SHEET |
| 02 | INDEX AND MODEL NUMBER DESCRIPTION |
| 03 | CONTACT INFORMATION |
| 04 | LISTING, TESTING AND APPROVALS |
| 05 | SPECIFICATIONS |
| 06 | ELEVATION VIEW WITH NIECO BROILER |
| 06.1 | ELEVATION VIEW WITH DUKE BROILER |
| 07 | SECTION VIEW WITH NIECO BROILER |
| 07.1 | SECTION VIEW WITH DUKE BROILER |
| 08 | LEFT AND RIGHT END VIEWS AND LABELING LOCATION |
| 09 | PLAN VIEW |
| 10 | FRONT ELEVATION VIEW-UTILITY CHASE |
| 11 | PLAN VIEW-UTILITY CHASE |
| 12 | TYPICAL GAS APPLIANCE CONNECTION DETAILS |
| 13 | PLAN VIEW-FIRE SYSTEM PIPING LOCATIONS |
| 14 | AMEREX PRE-PIPING DETAILS |
| 14.1 | OPTIONAL ANSUL PRE-PIPING DETAILS |
| 15 | STANDARD FRYER HOOD MOUNTED FIRE SYSTEM ARRANGEMENT |
| 16 | OPTIONAL WALL MOUNTED FIRE SYSTEM ARRANGEMENT |
| 17 | ENCLOSURE PANEL DETAILS |
| 18 | HOOD HANGING DETAILS |
| 19 | WALL FLASHING DETAILS |
| 20 | EXHAUST FAN DETAILS |
| 21 | ROOF CURB MOUNTING INSTRUCTIONS |
| 22 | EXHAUST FAN DUCT EXTENSION DETAILS |
| 23 | METAL-FAB GREASE DUCT DETAILS |
| 23.1 | OPTIONAL SQUARE DUCT KIT |
| 24 | PROCEDURE TO CONFIRM HOOD EXHAUST VOLUME |
| 25 | BK HOOD-EXHAUST FAN-FIRE SYSTEM-HVAC SYSTEM CONTROL MATRIX |



| REV | DWN.BY | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | ADD SHEET 23.1 |
| 04 | CG | 8/08/11 | ADDED 2 SHEET'S REVISED TO ELX |
| 03 | SN | 6/22/10 | ADDED SHEET |
| 02 | SN | 2/24/10 | NO CHANGE |

MODEL #: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) — DRAWN BY: SN — GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — DATE: 11/25/09 — SCALE: NTS — DWG. NO.: C-12644 — SHEET NO.: 2 — REV. NO.: 05

## Contact Information for the Job Site Contractor

**Overview**

Typically the package provided by Gaylord Industries includes the following:
1. One Hood
2. One Metal Fab UL listed grease exhaust duct system
3. One Loren Cook exhaust fan
4. One Amerex fire system, to serve both Broiler & Fryer Hoods.

The shipment from Gaylord includes the following:
1. Broiler Hood
2. Broiler Hood Enclosure Panels
3. Broiler Hood Wall Flashing
4. One Exhaust Fan Discharge Duct Extension

The Metal-Fab grease exhaust duct systems are dropped shipped from their factory in Wichita, Kansas.

NOTE 1 : If optional Square Duct Kit is ordered, the kit will be shipped with the hood.

The Loren Cook exhaust fans and roof curb is dropped shipped from their factory in Springfield, Missouri.

**Contact Information**

**Shipment Information**
For shipment information on any of the equipment including the Metal-Fab duct, Loren Cook fan and Amerex fire system contact:
Gaylord Industries, Tualatin, Oregon:
1. John Anderson Direct Phone: 971-223-1238
E-Mail: johna@gaylordusa.com

**Hood Installation Questions**
Gaylord Industries, Tualatin Oregon:
1. John Anderson Direct Phone: 971-223-1238
E-Mail: johna@gaylordusa.com

**Metal-Fab Duct Installation Questions**
Metal-Fab Inc., Wichita, Kansas
1. Customer Service, Commercial Vent Products: 800-835-2830

**Loren Cook Fan Installation Questions**
Loren Cook Company, Springfield, Missouri:
1. David Ray Office Phone: 417-869-6474

**Amerex Fire System Installation Questions**
The Hood has been factory pre-piped for an Amerex fire system. The package from Gaylord includes complete installation of the Amerex fire system including all plans, permits, check out and certification. The local Amerex distributor will bring all the system components at the time of installation.

**Contact Information (Cont.)**

Important Note: The local Amerex distributor will make contact with the general contractor to set up the installation schedule. If you have not heard from the distributor contact:
Amerex Corporation, Trussville, Alabama
1. Karen Mann Office Phone: 205-655-5730

**Ansul Fire System Installation Questions**
Note: As an option , the hoods may be pre piped for an Ansul R-102 fire system. If this option is used, Gaylord does not provide complete installation.

If you have questions regarding Ansul installations & you do not know your local Ansul Distributor, contact:
Ansul Inc., Marinette, WI.
Office Phone: 800-862-6785

| REV | DWN.BY | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | ADD NOTES ON SQUARE DUCT OPTION |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX |
| 03 | SN | 6/22/10 | NO CHANGE |
| 02 | SN | 2/24/10 | NO CHANGE |

MODEL #: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) — DRAWN BY: SN — GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — DATE: 11/25/09 — SCALE: NTS — DWG. NO.: C-12644 — SHEET NO.: 3 — REV. NO.: 04

HOOD LISTING AND APPROVAL REFERENCE

BROILER/OVEN HOOD
INTERTEK TESTING SERVICES, INC.
**BROILER HOOD IS E.T.L. LISTED EXHAUST HOODS WITHOUT EXHAUST DAMPERS, REPORT NO. 3130583CRT-008. TESTED UNDER U.L.STANDARD 710.**

NATIONAL FIRE PROTECTION ASSOCIATION
**MEETS ALL REQUIREMENTS OF NFPA-96 "STANDARD FOR VENTILATION CONTROL & FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS"**

NSF-NATIONAL SANITATION FOUNDATION
**MEETS ALL REQUIREMENTS OF NSF STANDARD NO.2 'FOOD SERVICE EQUIPMENT'**

MECHANICAL CODES
**MEETS ALL REQUIREMENTS OF THE UMC, BOCA, SBCCI AND IMC.**

NEW YORK CITY DEPARTMENT OF BUILDING
**MEA NO. 113-89-M**

| REV | DWN.BY | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX |
| 03 | SN | 6/22/10 | NO CHANGE |
| 02 | SN | 2/24/10 | NO CHANGE |

MODEL #: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) — DRAWN BY: SN — GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — DATE: 11/25/09 — SCALE: NTS — DWG. NO.: C-12644 — SHEET NO.: 4 — REV. NO.: 05

NORTH AMERICAN BROILER/OVEN HOOD SPECIFICATIONS

**Broiler/Oven Hood Specifications**
Gaylord Model ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7), canopy style wall mounted broiler/oven hood 7'-7" long x 43" front to back. The hood is specifically designed to go over a Nieco MPB94 or Duke FBB broiler and a half size convection oven. The hood is designed for either a Standard or Reverse ROC building. The ends and front panels are insulated double wall construction, and the top is covered with 3" thick insulation. The hood utilizes patented high efficiency stainless steel Gaylord XGS Extractors. The extractor testing mirror ASTM Standard F2519 -2005, and are ETL Listed to UL Standard 1046. The hood design includes a built in 5" air space at the back for allowing direct mounting to a limited combustible wall (sheet rock on metal studs) for compliance to NFPA-96. Also built into the back of the hood are utility raceways that are used for gas piping and electrical services. The hood includes factory pre-piping for an Amerex KP fire extinguishing system or as an option may be pre-piped for an ANSUL R-102 fire system. The hood is constructed of all 18 gauge, type 300 series stainless steel, number 4 finish.

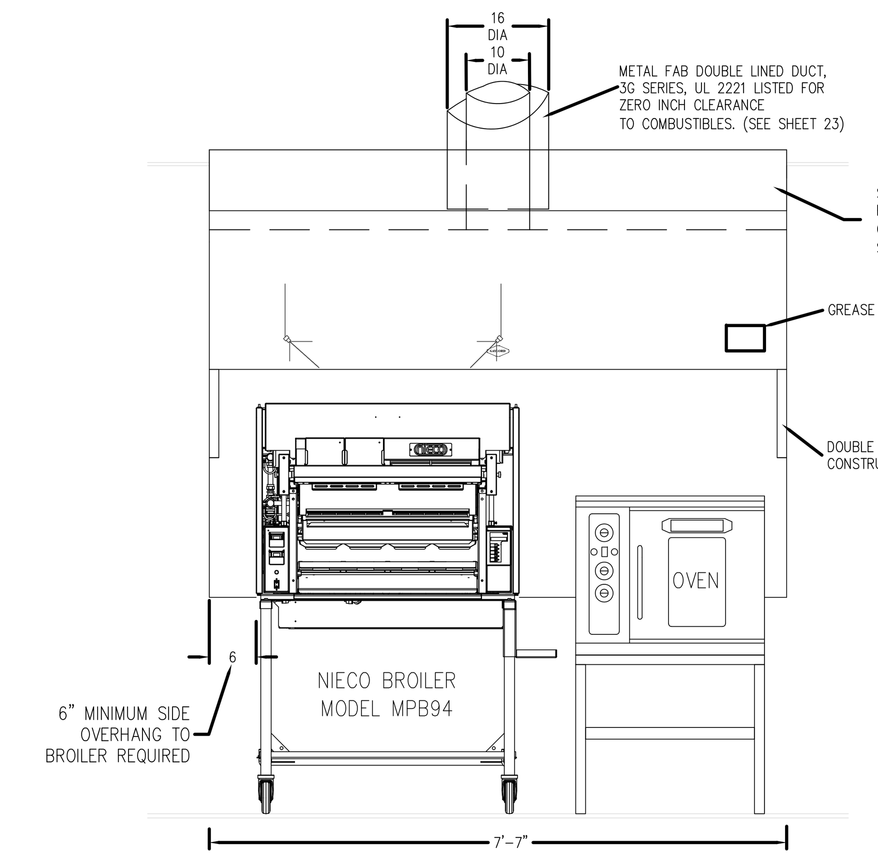
**Enclosure Panels** Included is a stainless steel enclosure kit to fill the space between the top of the hood and the finished ceiling. The panels are constructed of 18 gauge type 430 stainless steel, number 4 finish.

**Wall Flashing** One set of wall flashing for broiler/oven hood as shown on the drawings. Flashing is constructed of 18 gauge type 430 stainless steel, number 4 finish.

**Hanging Weight:** The hanging weight of the broiler/oven hood is 450 lbs.

| REV | DWN.BY | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX |
| 03 | SN | 6/22/10 | MODIFIED WORDING |
| 02 | SN | 2/24/10 | NO CHANGE |

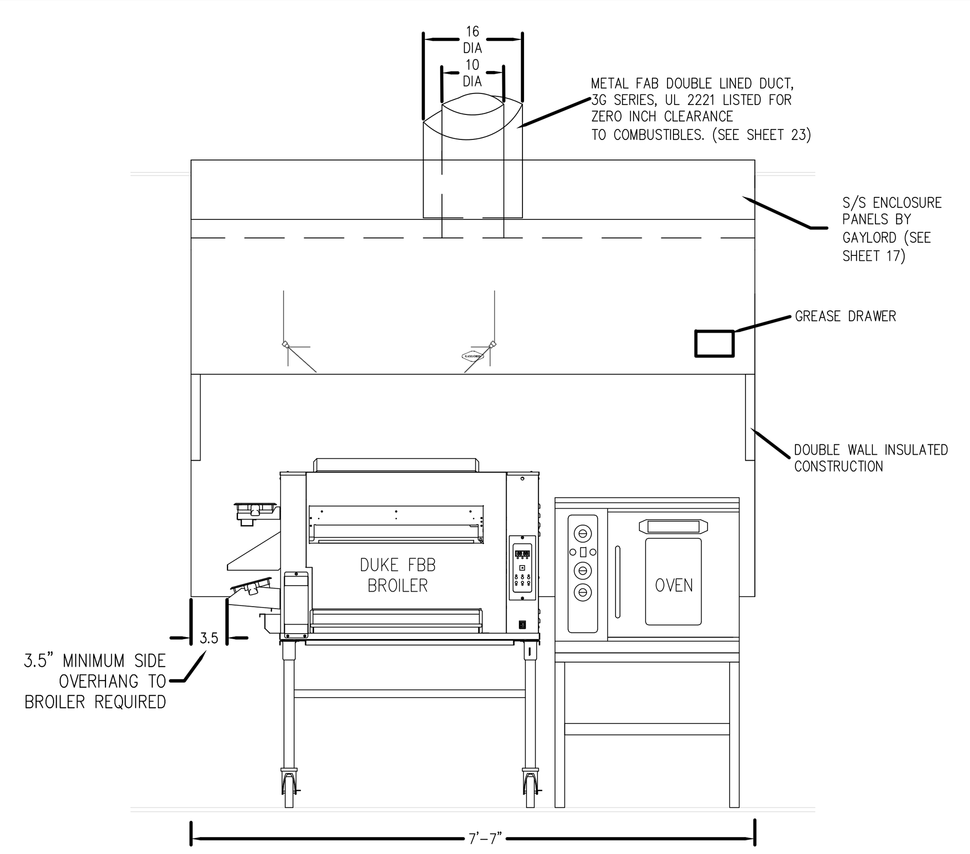
MODEL #: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) — DRAWN BY: SN — GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — DATE: 11/25/09 — SCALE: N.T.S. — DWG. NO.: C-12644 — SHEET NO.: 5 — REV. NO.: 05




FRONT ELEVATION
WITH NIECO BROILER MPB94

| REV | DWN.BY | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX |
| 03 | SN | 6/22/10 | NO CHANGE |
| 02 | SN | 2/24/10 | LOWERED MOUNTING HEIGHT |

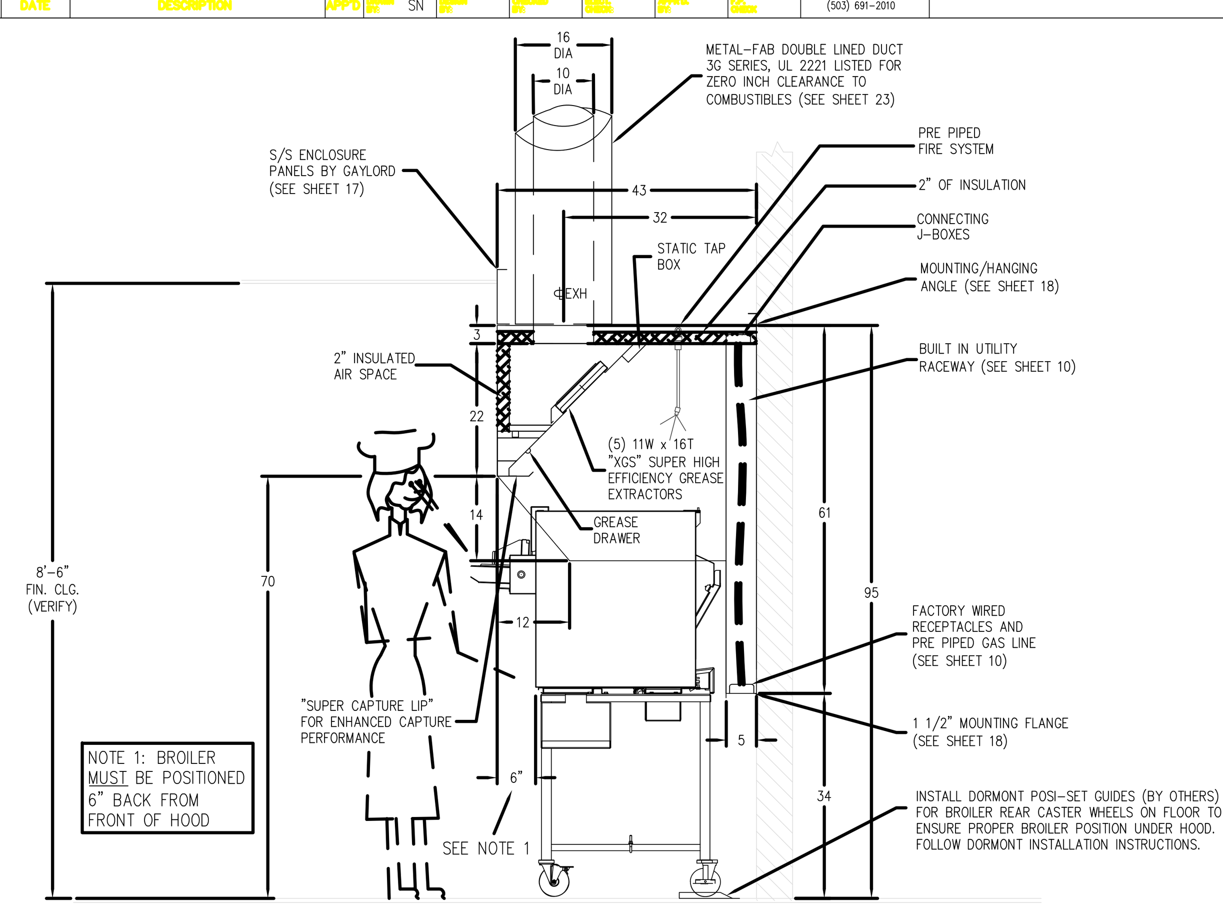
MODEL #: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) — DRAWN BY: SN — GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — DATE: 11/25/09 — SCALE: N.T.S. — DWG. NO.: C-12644 — SHEET NO.: 6 — REV. NO.: 05




FRONT ELEVATION
WITH DUKE FBB BROILER

| REV | DWN.BY | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE |
| 04 | CG | 8/08/11 | ADDED THIS SHEET & NEW EQUIP. |
| 03 | SN | 6/22/10 | NO CHANGE |
| 02 | SN | 2/24/10 | LOWERED MOUNTING HEIGHT |

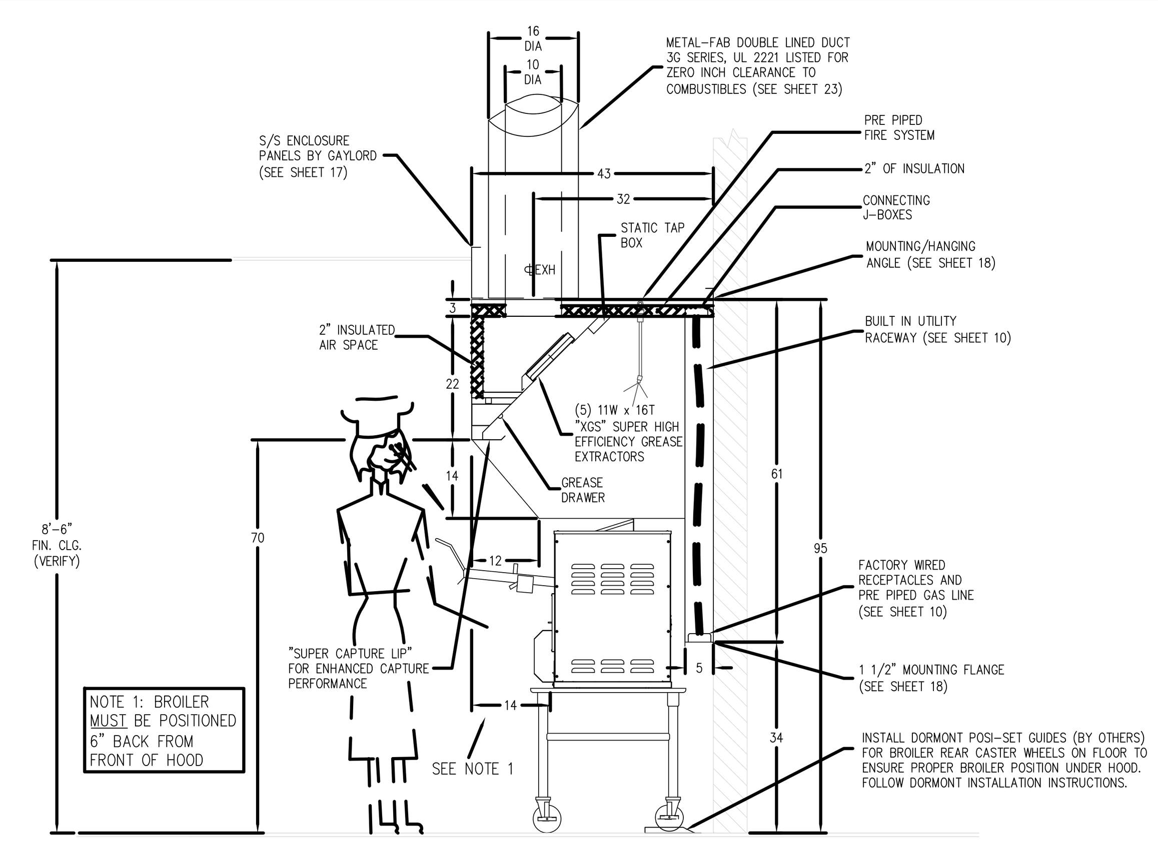
MODEL #: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) — DRAWN BY: SN — GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — DATE: 11/25/09 — SCALE: N.T.S. — DWG. NO.: C-12644 — SHEET NO.: 6.1 — REV. NO.: 05




BROILER HOOD SECTION WITH NIECO MPB94 BROILER

| REV | DWN.BY | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX |
| 03 | SN | 6/22/10 | MOVED DUCT FORWARD 3" |
| 02 | SN | 2/24/10 | LOWERED MOUNTING HEIGHT |

MODEL #: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) — DRAWN BY: SN — GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — DATE: 11/25/09 — SCALE: N.T.S. — DWG. NO.: C-12644 — SHEET NO.: 7 — REV. NO.: 05




BROILER HOOD SECTION VIEW
SHOWN WITH DUKE BROILER

| REV | DWN.BY | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX |
| 03 | SN | 6/22/10 | MOVED DUCT FORWARD 3" |
| 02 | SN | 2/24/10 | LOWERED MOUNTING HEIGHT |

MODEL #: ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) — DRAWN BY: SN — GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — DATE: 11/25/09 — SCALE: N.T.S. — DWG. NO.: C-12644 — SHEET NO.: 7.1 — REV. NO.: 05

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P:(248) 426-8000 F:(248) 426-7004

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10.06.2022

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1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
BROILER-OVEN HOOD DRAWINGS

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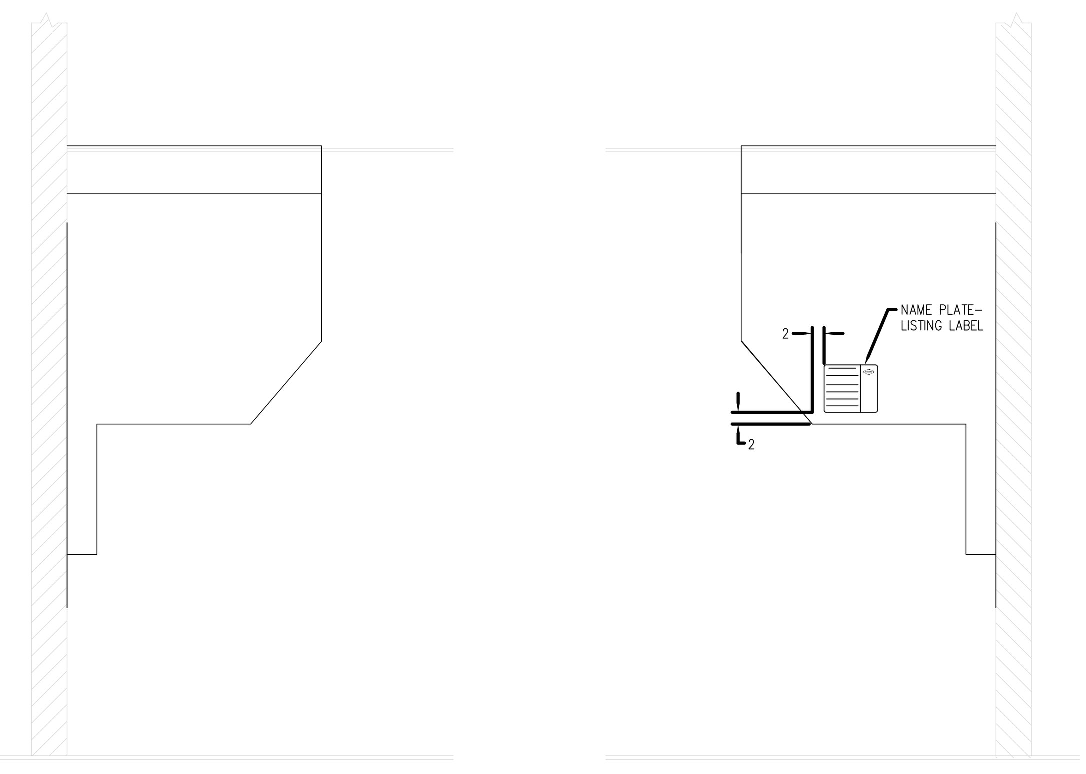
JOB # TG-21668

SHEET M-3



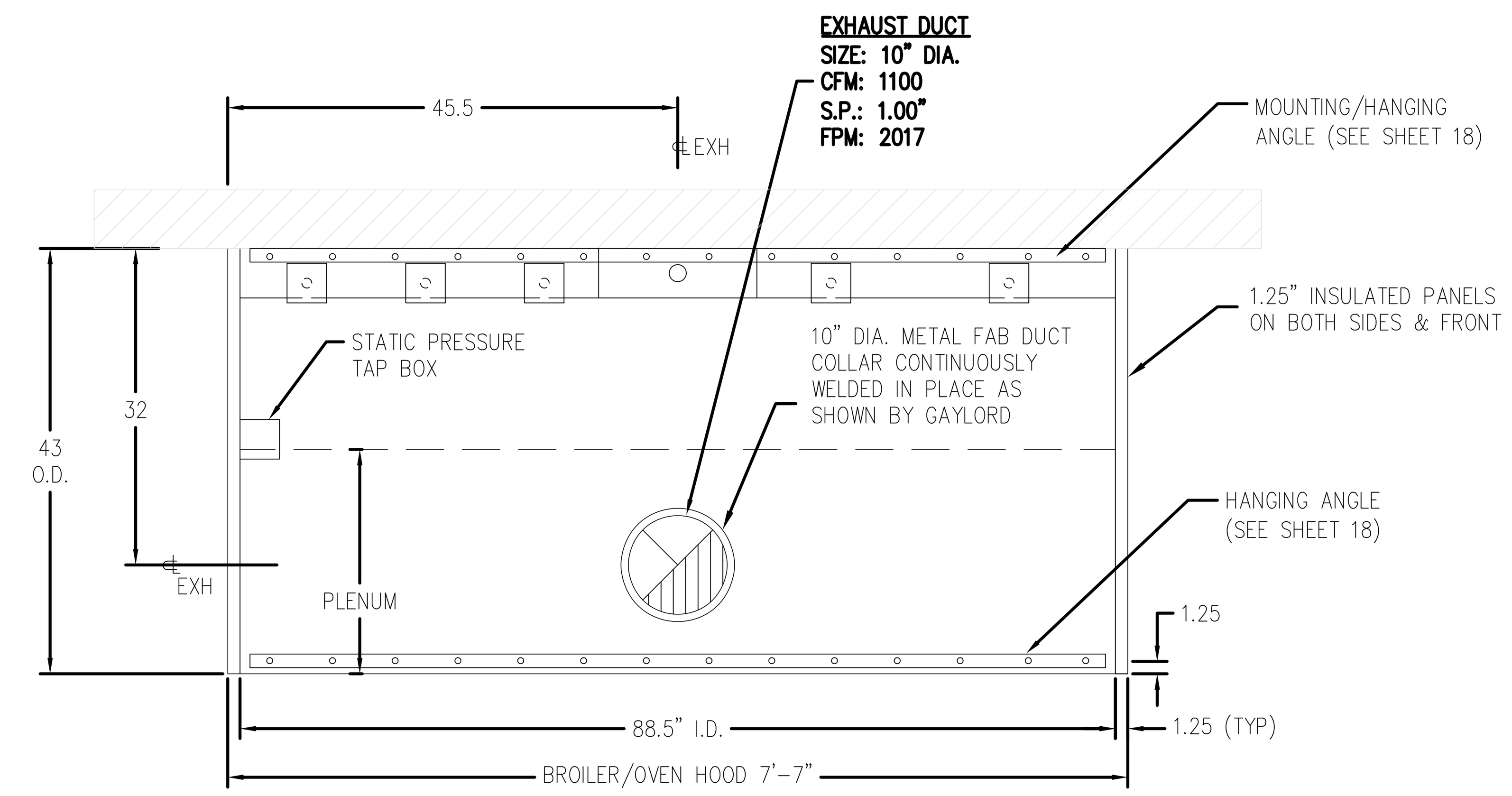

BROILER/OVEN HOOD LEFT END VIEW

BROILER/OVEN HOOD RIGHT END VIEW

## BROILER/OVEN HOOD SIDE PANEL AND LABELING DETAIL

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | NO CHANGE | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
11/25/09 · N.T.S. · C-12644 · SN · 8 · 05



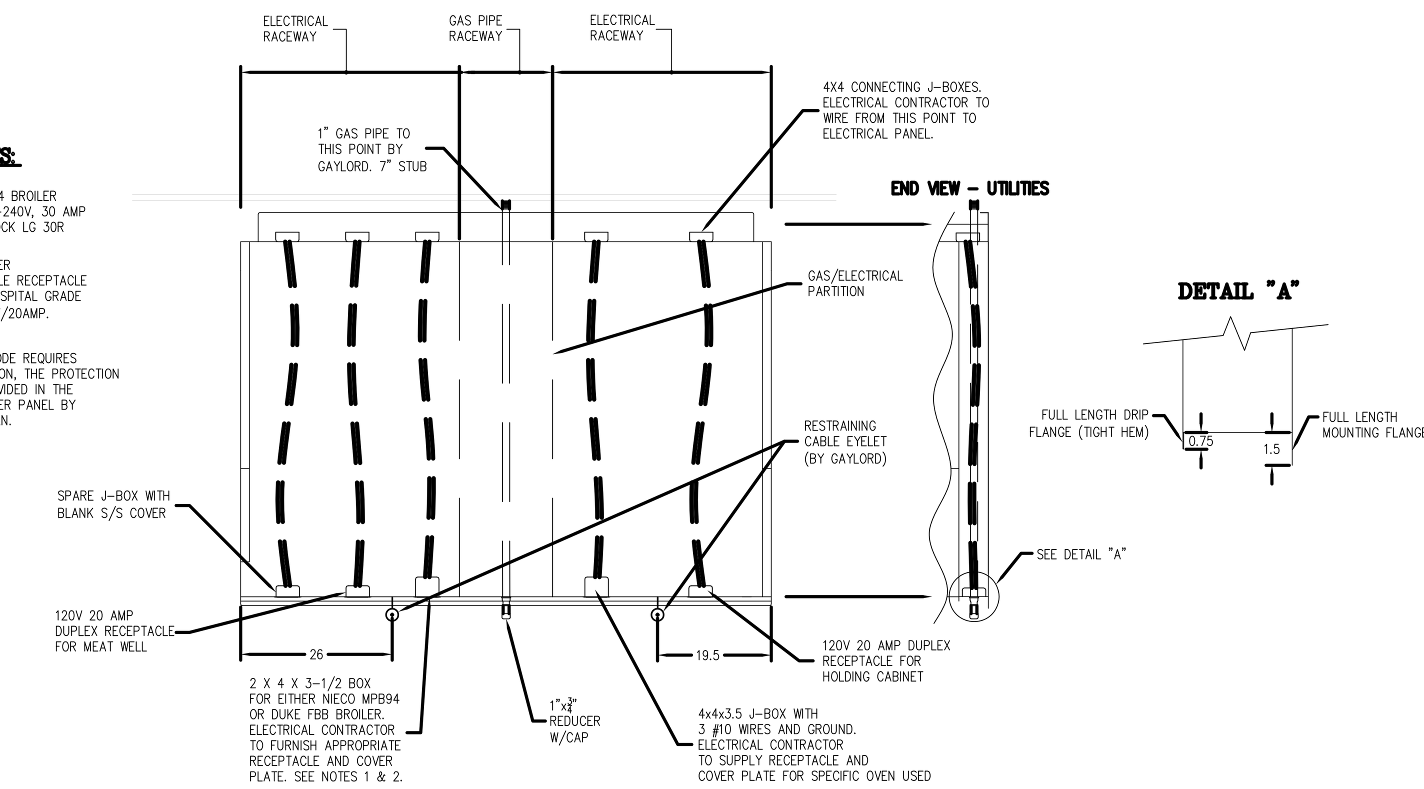

## PLAN VIEW

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | CHANGED DUCT & UTILITY LOCATIONS | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
11/25/09 · N.T.S. · C-12644 · SN · 9 · 05

**NOTES:**

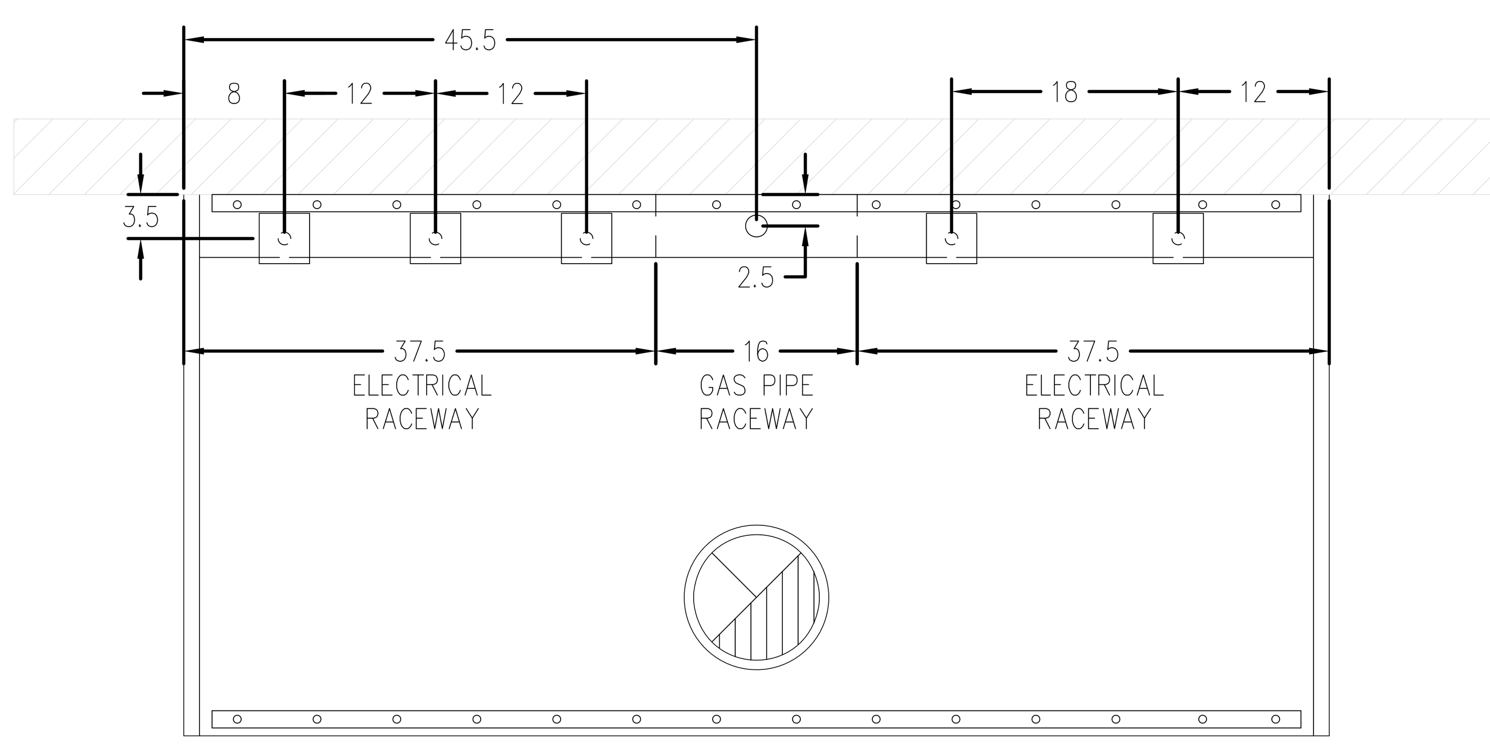
1. NIECO MPB94 BROILER REQUIRES 208-240V, 30 AMP NEMA TWIST LOCK LG 30R
2. DUKE BROILER REQUIRES SINGLE RECEPTACLE NEMA 520R HOSPITAL GRADE (ORANGE) 120V/20AMP.
3. IF LOCAL CODE REQUIRES G.F.I. PROTECTION, THE PROTECTION SHALL BE PROVIDED IN THE CIRCUIT BREAKER PANEL BY THE ELECTRICIAN.




## FRONT ELEVATION – UTILITY CHASE

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | CHANGED UTILITY LOCATIONS | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

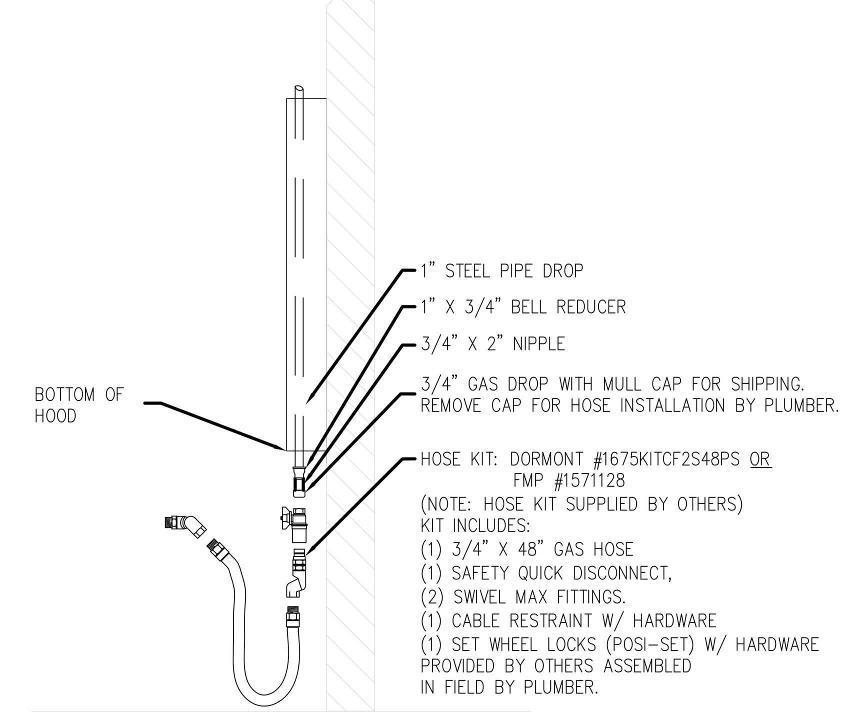
GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
11/25/09 · N.T.S. · C-12644 · SN · 10 · 05




## PLAN VIEW – UTILITIES

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | CHANGED UTILITY LOCATIONS | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

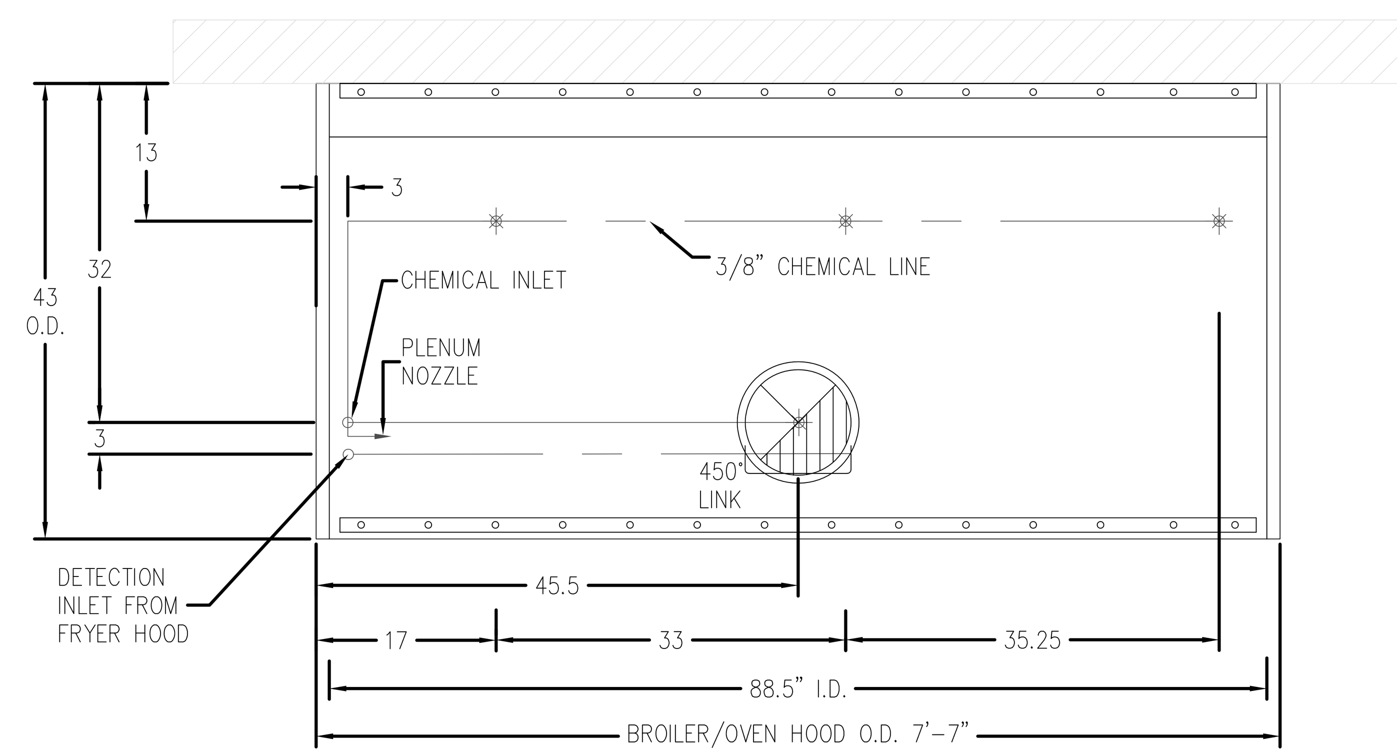
GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
11/25/09 · N.T.S. · C-12644 · SN · 11 · 05




## TYPICAL GAS APPLIANCE CONNECTION

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | NO CHANGE | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

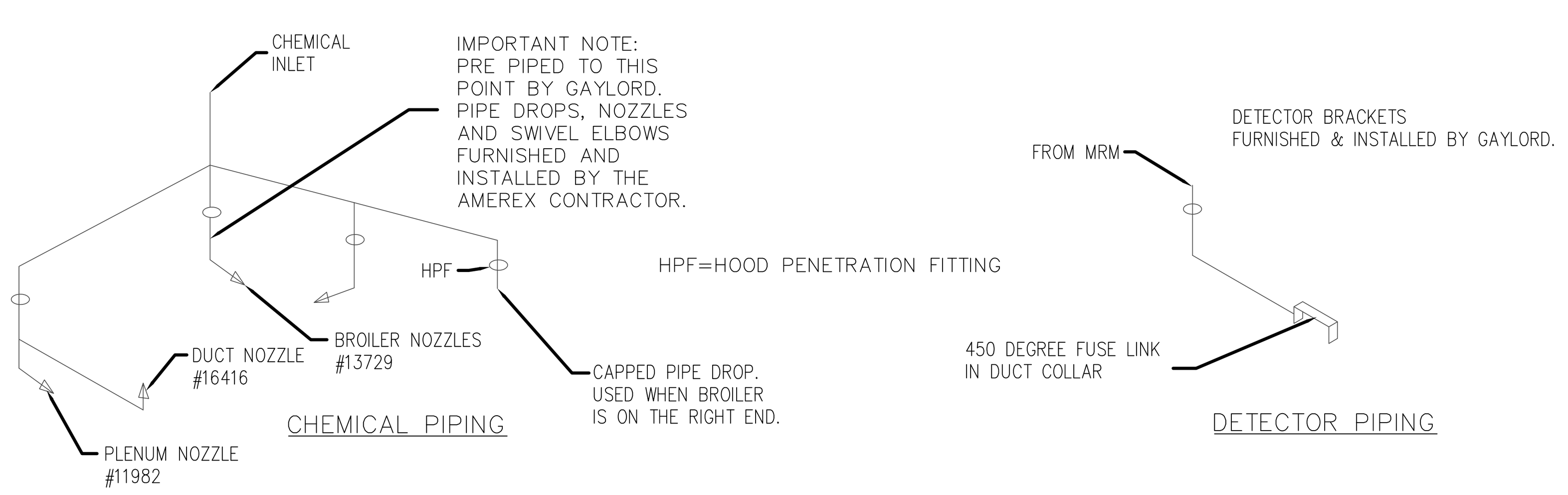
GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
11/25/09 · N.T.S. · C-12644 · SN · 12 · 05




## PLAN VIEW – FIRE SYSTEM PIPING LOCATIONS

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | CHANGED DUCT & F.P. LOCATIONS | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
11/25/09 · N.T.S. · C-12644 · SN · 13 · 05

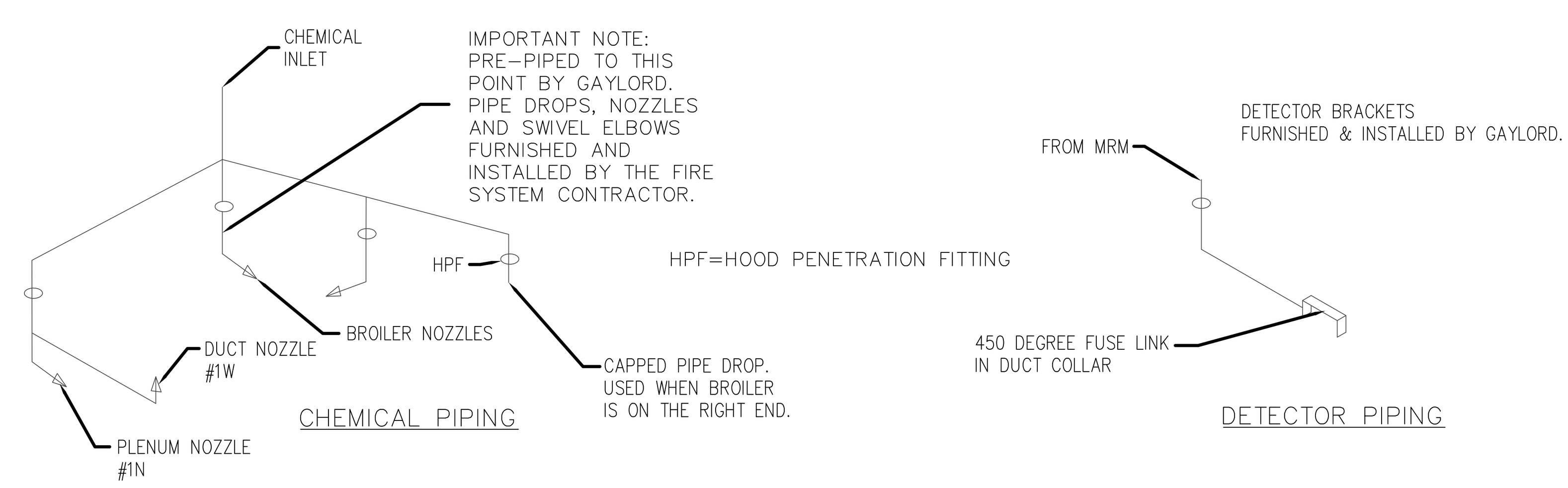



IMPORTANT NOTE:
ALL BLOW OFF CAPS TO BE HIGH TEMPERATURE METAL PART NUMBER 12504

## AMEREX PIPING DETAILS BROILER/OVEN HOOD

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | CHANGED WORDING | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
11/25/09 · N.T.S. · C-12644 · SN · 14 · 05

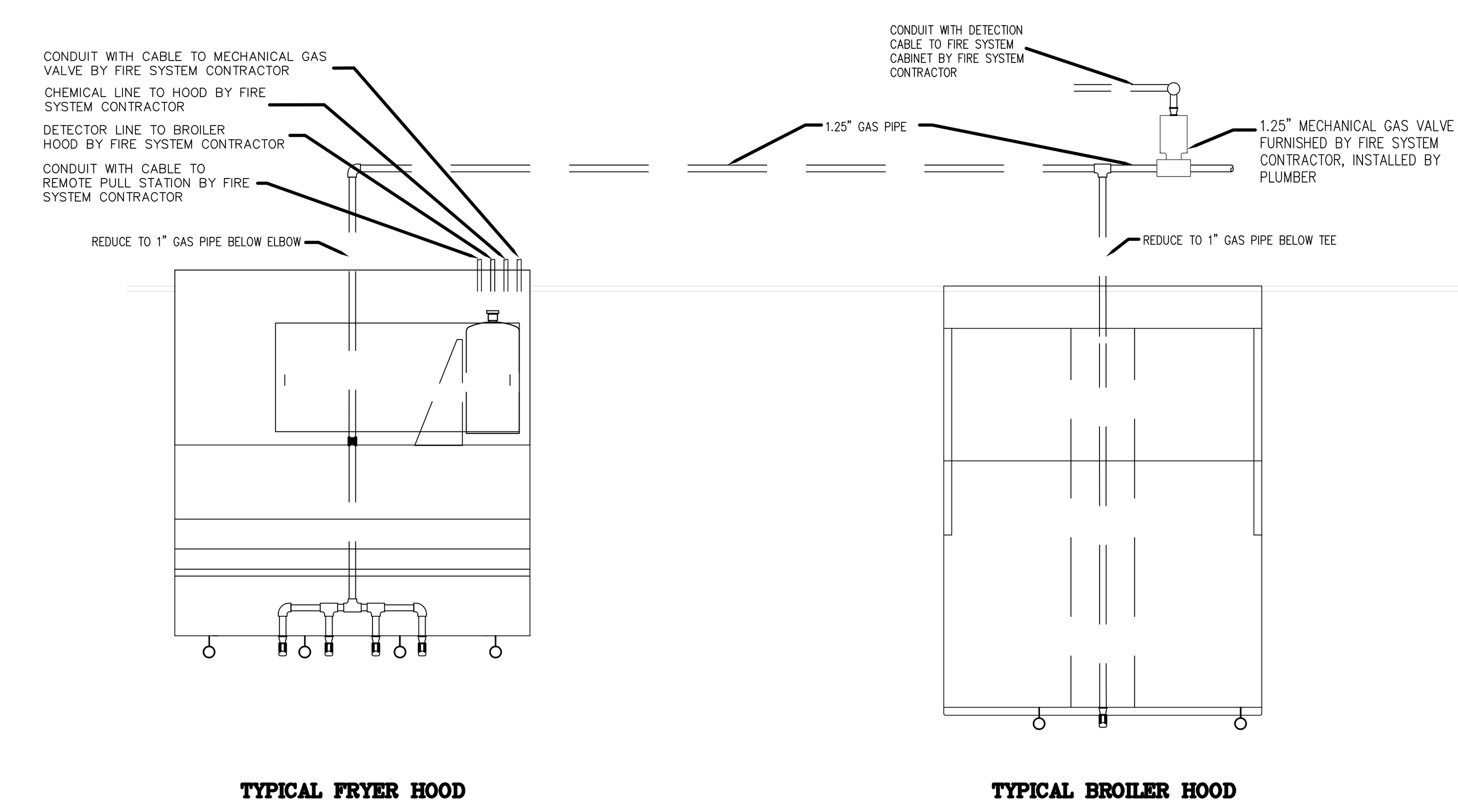



IMPORTANT NOTE:
ALL BLOW OFF CAPS TO BE HIGH TEMPERATURE METAL

## OPTIONAL ANSUL PIPING DETAILS BROILER/OVEN HOOD

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | | | |
| 03 | SN | 6/22/10 | ADDED THIS SHEET | | | | |

GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
6/22/10 · N.T.S. · C-12644 · SN · 14.1 · 05




## TYPICAL STANDARD HOOD MOUNTED FIRE SYSTEM ARRANGEMENT USING ONE SYSTEM TO SERVE BOTH HOODS

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | CHANGED NOTES | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

GAYLORD — 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010
NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION
11/25/09 · N.T.S. · C-12644 · SN · 15 · 05

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP, inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P:(248) 426-8000 F:(248) 426-7004

AZIZ S. BOU-MAROUN REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

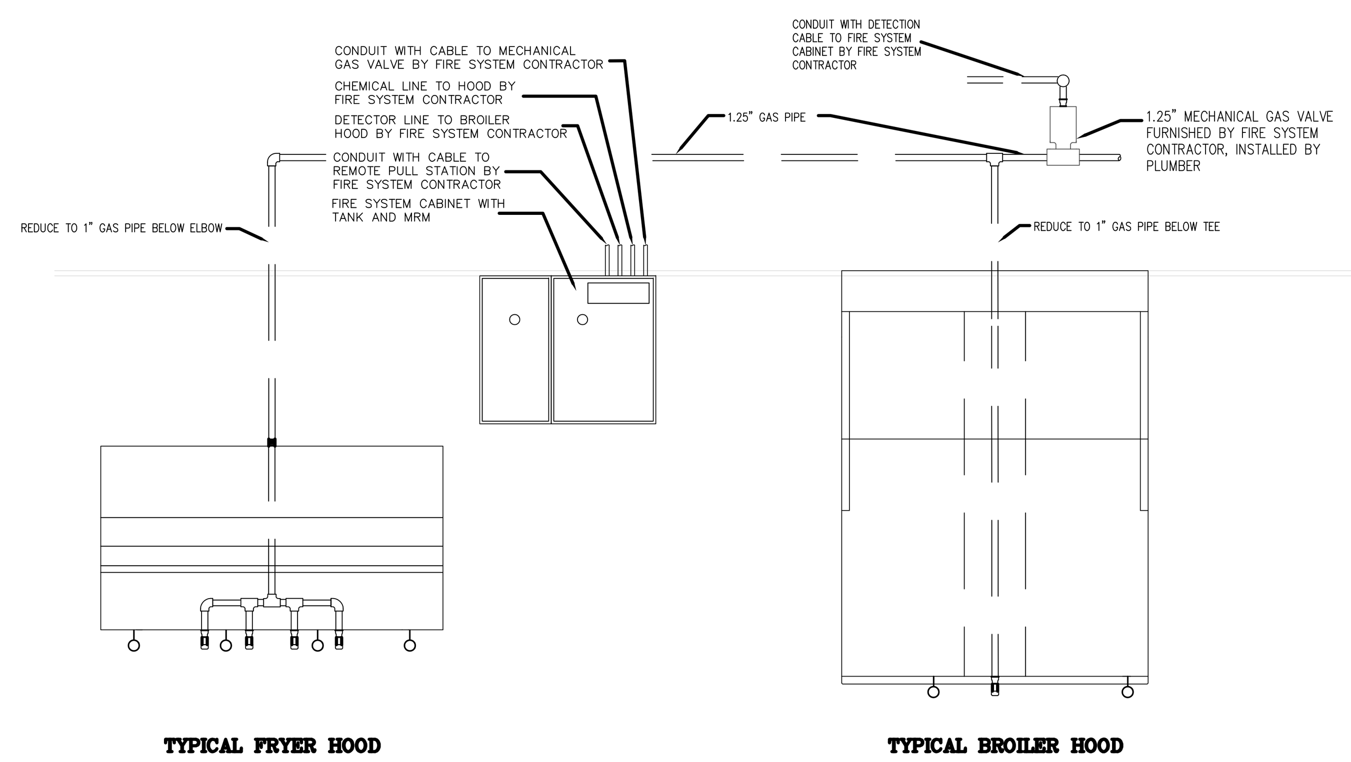
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
BROILER-OVEN HOOD DRAWINGS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

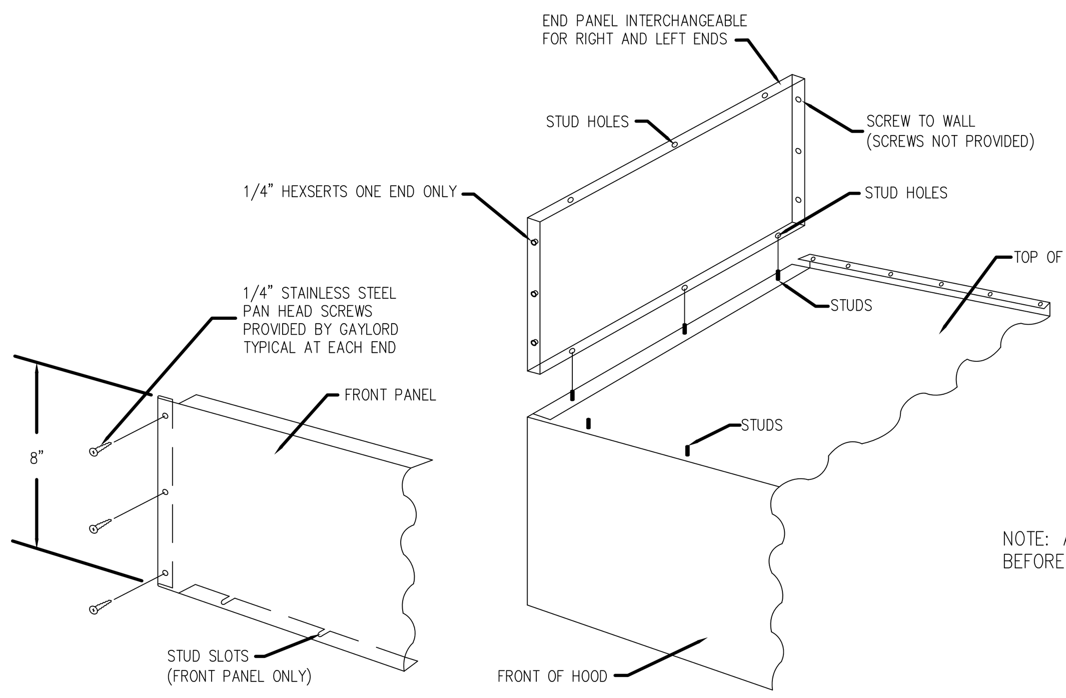
SHEET M-4




**TYPICAL OPTIONAL WALL MOUNTED FIRE SYSTEM ARRANGEMENT USING ONE SYSTEM TO SERVE BOTH HOODS**

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | CHANGED NOTES | | | | |
| 02 | SN | 2/24/10 | NO CHANGE | | | | |

GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 11/25/09, N.T.S., C-12644, SN, 16, 05

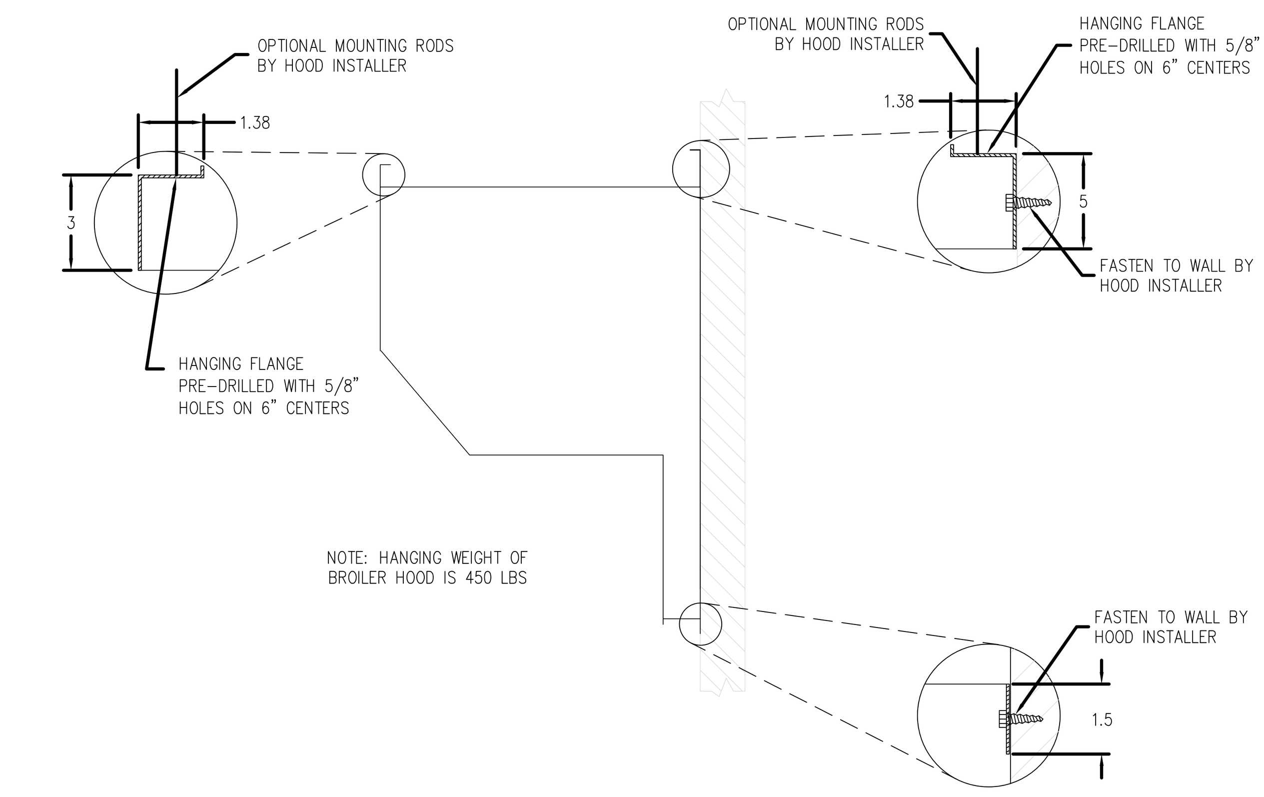



NOTE: ATTACH SIDE PANELS BEFORE ATTACHING FRONT PANEL

**BROILER HOOD ENCLOSURE PANELS INSTALLATION INSTRUCTIONS**

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | CHANGED ENCLOSURE PANEL DESIGN | | | | |
| 02 | SN | 2/24/10 | CHANGED PANEL HEIGHT | | | | |

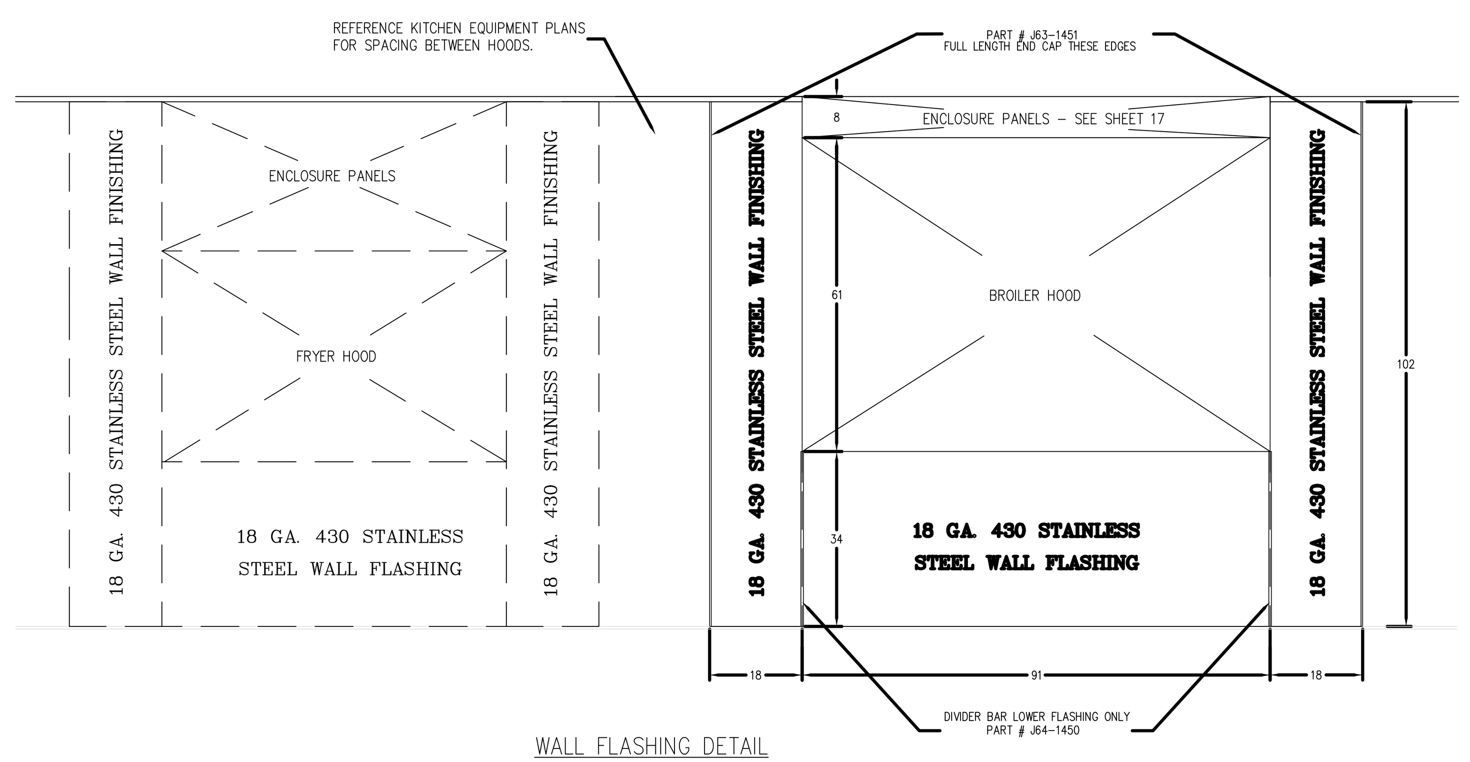
GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 11/25/09, N.T.S., C-12644, SN, 17, 05




**HANGING DETAIL FOR BROILER/OVEN HOOD**

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | NO CHANGE | | | | |
| 02 | SN | 2/25/10 | NO CHANGE | | | | |

GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 11/25/09, N.T.S., C-12644, SN, 18, 05




WALL FLASHING DETAIL
PROVIDED BY GAYLORD

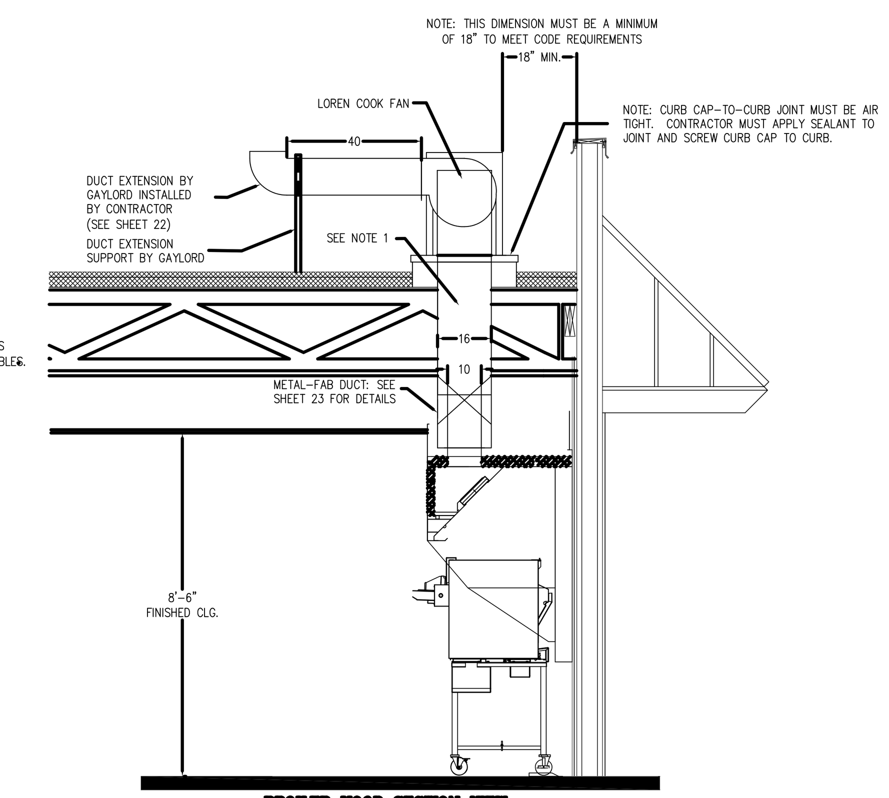
| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | ADDED FRYER HOOD AS REFERENCE | | | | |
| 02 | SN | 2/25/10 | CHANGED LOWER FLASHING DIMENSION | | | | |

GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 11/25/09, N.T.S., C-12644, SN, 19, 05

BROILER/OVEN EXHAUST FAN SPECS
COOK MODEL 120 CPS: 1100 CFM, 1.50" S.P. CCW ROTATION, 3/4 HP 208V/1 PH/60 MOTOR, UL 762, HI TEMP EZ CLEAN COAT, STEEL ACCESS DOOR, HANGING GREASE TROUGH, PREWIRED NEMA DISCONNECT,TOP HORIZONTAL DISCHARGE WITH PUNCHED UL762 FLANGE, CURB CAP & INLET BOX, ROOF CURB, AND PRE-WIRED CURRENT SENSOR

ROOF CURB SPECS
COOK MODEL RCG-30x46x12
NO NAILER

NOTE 1
U.L. LISTED GREASE EXHAUST DUCT MANUFACTURED BY METAL-FAB, MODEL 3G SERIES LISTED FOR "0" TO COMBUSTIBLES.




BROILER HOOD SECTION VIEW

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | MOVED DUCT & FAN FORWARD 3" | | | | |
| 02 | SN | 2/25/10 | CHANGEDTO 120 CPS FAN | | | | |

GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 11/25/09, N.T.S., C-12644, SN, 20, 05

## Instructions for Mounting the Roof Curb Typical for both the Fryer & Broiler fans

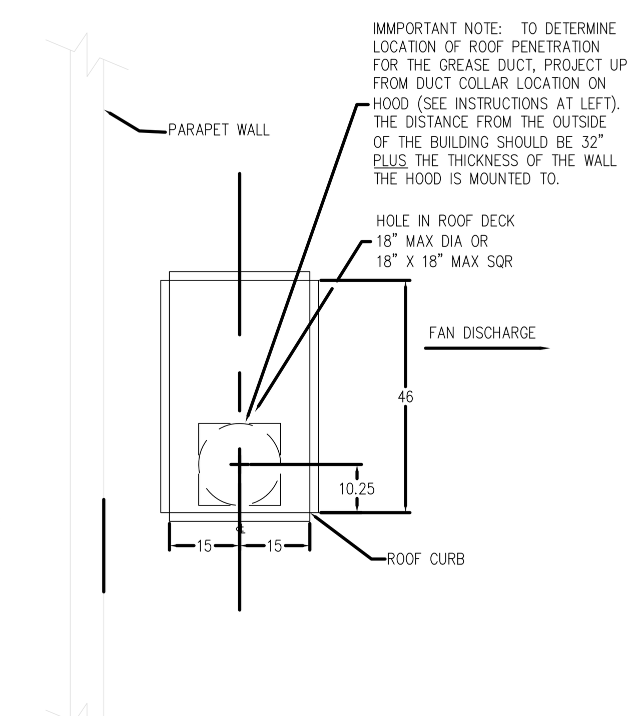
### Cutting Hole in The Roof Deck

1. The hood exhaust duct collar is located , left to right, in the center of the hood, and located 29" off the sheet-rocked kitchen wall to the center of the duct.
2. Project this centerline dimension to the roof deck and cut a hole a minimum of 17" in diameter and no greater than 18". A square hole of the same dimension may also be cut.

### Spotting the Roof Curb

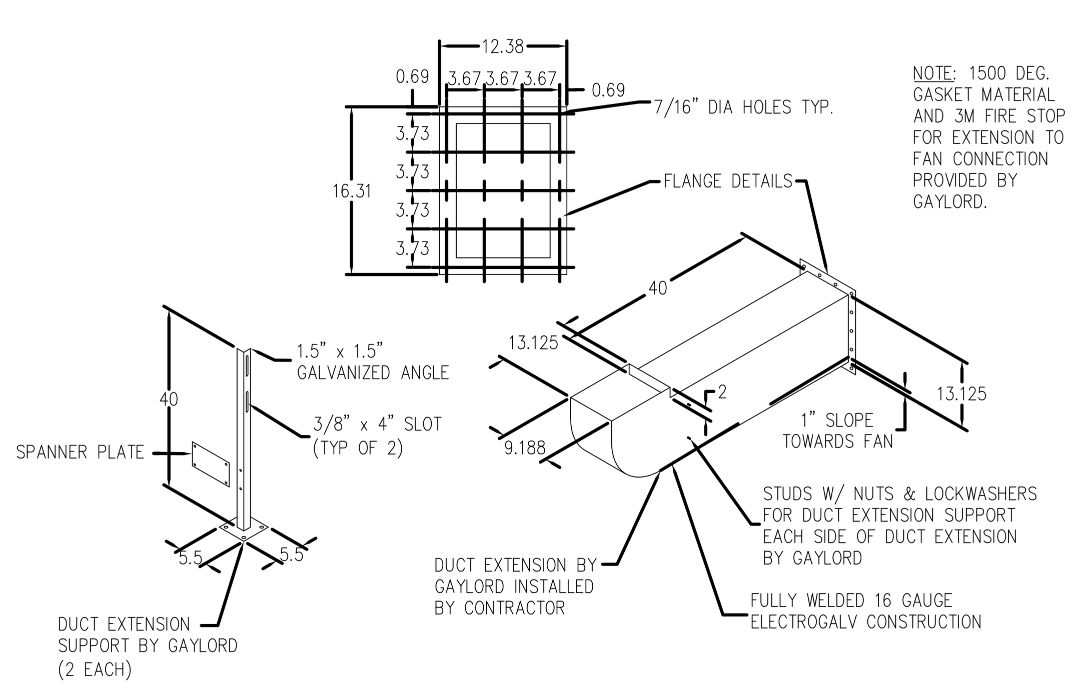
1. The roof curb is not symmetrical and therefore it is very important that it be installed per these instructions.
2. The curb is set at parallel the parapet wall as shown on the illustration at the right.
3. The discharge of the exhaust fan is horizontal and faces away from the roof parapet.
4. As you face the parapet wall (imagine fan outlet facing you when in place) the left out side edge of the curb should be 10.25" to the left of the centerline of the hole cut in the roof deck. You should then have 35.75" from the centerline of the hole to the right hand edge of the curb.
5. The curb should be set away from the parapet wall so that it is centered over the hole in the roof deck.
6. Attach the curb to the roof with the appropriate number and size of screws through the roof curb flange.

**STOP**
Do not install the exhaust fan. The Metal-Fab grease duct must be installed before the exhaust fan. Refer to Sheet #24 and Metal-Fab Factory Instructions.




| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | ADDED DIMENSION NOTES | | | | |
| 02 | SN | 2/25/10 | NO CHANGE | | | | |

GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 11/25/09, N.T.S., C-12644, SN, 21, 05




NOTE: 1500 DEG. GASKET MATERIAL AND 3M FIRE STOP FOR EXTENSION TO FAN CONNECTION PROVIDED BY GAYLORD.

**BROILER/OVEN HOOD EXHAUST FAN DUCT EXTENSION**

INSTALLATION INSTRUCTIONS

After the exhaust fan is mounted on the curb, use the following instructions to install the Fan Duct Extension:

1. Attach the two fan discharge extension support legs to the duct extension with the nuts provided. Do not tighten.
2. Attach the spanner plate to the two duct extension support legs with the bolts and nuts provided. Tighten
3. Apply a 1/8" bead of 3M Fire Stop (provided) to the exhaust fan outlet flange and the fan discharge extension flange.
4. Place the 1500 degree gasket material on one of the flanges, allowing the 3M fire stop to hold it in place.
5. Clamp the two flanges together and bolt together with the bolts, washers, and nuts provided. Tighten
6. Adjust the support legs so the duct extension slopes slightly towards the fan and tighten the nuts.
7. Screw the duct extension support leg flanges to the roof with the appropriate size screws. These screws are not provided by Gaylord.

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | NO CHANGE | | | | |
| 02 | SN | 2/25/10 | CHANGED TO MATCH CPS120 SPECS | | | | |

GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 11/25/09, N.T.S., C-12644, SN, 22, 05

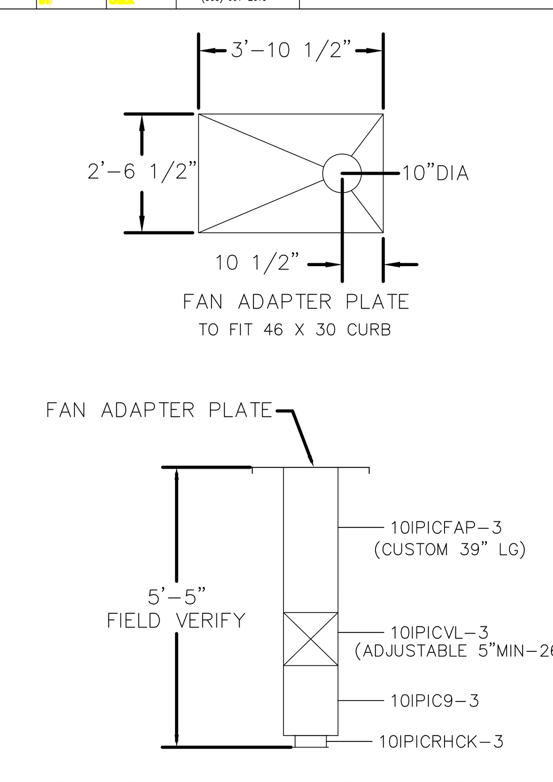
NOTES:

1. METAL-FAB GREASE DUCT IS UL LISTED FOR 0" CLEARANCE TO COMBUSTIBLES:
> UL 1978
> UL 2221
> UL FILE #MH25506

2. INSTALLATION INSTRUCTIONS ARE INCLUDED WITH THE METAL-FAB PRODUCT. THESE INSTRUCTIONS CAN ALSO BE FOUND AT: http://www.metal-fabcommercial.com/media/L2502.pdf

3. ADDITIONAL METAL-FAB INFORMATION CAN BE OBTAINED BY VISITING www.greaseduct.com OR CALLING 800-835-2830

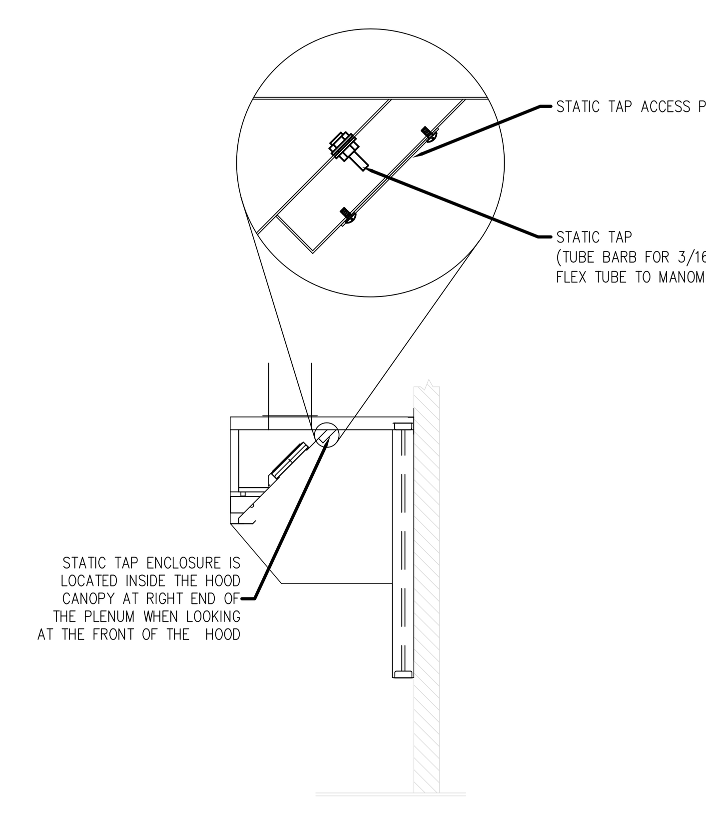
4. THE MAXIMUM DISTANCE FROM THE RESTAURANT FLOOR TO THE TOP OF THE EXHAUST CURB THAT THIS COMBINATION OF DUCT COMPONENTS AND HOOD WILL FIT IS 13'-9" (165"). VERIFY PRIOR TO ORDERING PRODUCT. ADDITIONAL SPOOL PIECES CAN BE ADDED FOR REACHING GREATER DISTANCES.




METAL-FAB DUCT COMPONENTS

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 03 | SN | 6/22/10 | ADDED NOTES | | | | |
| 02 | SN | 2/25/10 | CHANGED LENGTH TO 5' 5" | | | | |

GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 11/25/09, N.T.S., C-12644, SN, 23, 05




GAYLORD RECOMMENDS MEASURING THE STATIC PRESSURE IN THE PLENUM AS THE MEANS BY WHICH TO DETERMINE EXHAUST FLOW. THE STATIC TAP IS ACCESSED BEHIND A PLATE LOCATED AS SHOWN IN THE DRAWING TO THE LEFT.

REQUIREMENTS:
- A MANOMETER THAT READS IN INCHES OF WATER COLUMN AND A 3/16" ID FLEXIBLE TUBE TO CONNECT THE STATIC TAP TO THE MANOMETER
- READING MUST BE TAKEN AT ROOM TEMPERATURE WITH COOKING EQUIPMENT OFF AND COOL

THE PROPER STATIC PRESSURE READING FOR THE 1100 CFM SPECIFIED FOR THIS HOOD AND COOKING EQUIPMENT = 0.29 IN W.G.

**PROCEDURE TO CONFIRM HOOD EXHAUST VOLUME**

| REV | DWN.BY | DATE | DESCRIPTION | APP'D | MODEL # | ITEM # | WORK ORDER |
|---|---|---|---|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE | | ELX-ND-BDL-PM-OB-43-(BK-NA-BOH-7-7) | | |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX | | | | |
| 03 | SN | 6/22/10 | ADDED THIS SHEET | | | | |

GAYLORD, 10900 SW. AVERY ST. TUALATIN OR 97062-1149 (503) 691-2010 — NORTH AMERICAN BROILER/OVEN HOOD 7'-7" BURGER KING CORPORATION — 6/22/10, N.T.S., C-12644, SN, 24, 05

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP, inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P:(248) 426-8000 F:(248) 426-7004

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST,
ELKHART, IN 46514

SHEET TITLE
BROILER-OVEN HOOD DRAWINGS

DO NOT SCALE THIS PRINT, USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET M-5

## BK ROC HOOD / EX. FAN / FIRE SYSTEM / HVAC CONTROL MATRIX AS OF 10-14-09

| ACTION | REACTION: EX FAN | ELECT PWR TO COOKING EQUIP | MECH. GAS VALVE | HVAC UNITS | MAKE-UP AIR UNIT (IF APP-LICABLE) | COMMENTS |
|---|---|---|---|---|---|---|
| FAN SW TURNED ON | ON | ON | ON | ON | ON | HVAC UNITS MUST BE ON BEFORE EX FAN CAN COME ON |
| FAN SW TURNED OFF | OFF | OFF | ON | ON | OFF | |
| FIRE SYSTEM DISCHARGES | ON | OFF | OFF | OFF | OFF | |
| SLIPPING FAN BELT | ON | OFF | ON | ON | OFF | POWER TO COOKING EQUIP. OFF VIA CURRENT SENSOR |
| BROKEN FAN BELT | ON | OFF | ON | ON | OFF | POWER TO COOKING EQUIP. OFF VIA CURRENT SENSOR |
| POWER OUTAGE | OFF | OFF | ON | OFF | OFF | |
| HVAC SYSTEM TURNED OFF | OFF | OFF | ON | OFF | OFF | |

| REV | INIT. | DATE | DESCRIPTION |
|---|---|---|---|
| 05 | JA | 11/5/11 | NO CHANGE |
| 04 | CG | 8/08/11 | REVISED MODEL # TO ELX |
| 03 | SN | 6/22/10 | CHANGED SHEET NUMBER |
| 02 | SN | 2/25/10 | NO CHANGE |

MODEL # ELX-ND-EDL-PM-OB-43-(BK-NA-BOH-7-7) | ITEM # | WORK ORDER

GAYLORD
10900 SW. AVERY ST.
TUALATIN
OR 97062-7149
(503) 691-2010

NORTH AMERICAN BROILER/OVEN HOOD
7'-7"
BURGER KING CORPORATION

DATE 11/25/09
SCALE N.T.S.
DWG C-12644
SHT 25 REV 05

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AJG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

TGi TECHNICAL GROUP INC.
27800 MIDDLEBELT RD. SUITE F2
FARMINGTON HILLS, MI 48331
P: (248) 426-8000 F: (248) 426-7004

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
BROILER-OVEN HOOD DRAWINGS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

SHEET
M-6

# 5'-7" NORTH AMERICAN FRYER HOOD

FOR BURGER KING CORPORATION

FRYER HOOD MODEL: ELX-ND-BD-38-(BK-NAFH-5-7)

Manufactured by:

GAYLORD INDUSTRIES

10900 SW. AVERY ST.
TUALATIN, OREGON 97062
UNITED STATES OF AMERICA
PHONE: (503) 691-2010
EMAIL: INFO@GAYLORDUSA.COM

Drwg no.: C-12634

Sheet: 1
Rev. :07

## MODEL NUMBER DESCRIPTION

FRYER HOOD MODEL NUMBER DESCRIPTION
ELX-ND-BD-38-(BK-NAFH-5-7)

- HOOD LENGTH FT-IN
- NORTH AMERICAN FRYER HOOD
- CUSTOMER I.D.
- HOOD DEPTH IN INCHES
- BACKSHELF STYLE
- SERIES

## INDEX



| Sheet # | Description |
|---|---|
| 01 | COVER SHEET |
| 01.1 | MODEL # & INDEX |
| 02 | CONTROL CONTACT SHEET |
| 03 | SPECIFICATIONS |
| 03.1 | HOOD LISTING & APPROVAL REFORENCES |
| 04 | FRYER HOOD OVERVIEW |
| 05 | FRONT ELEVATION |
| 06 | FRYER HOOD SECTION VIEW |
| 07 | FRYER HOOD RIGHT END VIEW- HOOD LABLE & POSI-SET LOCATION |
| 08 | PLAN VIEW |
| 09 | FRONT ELEVATION-UTILITIES |
| 10 | FRONT ELEVATION - PLAN VIEW - UTILITIES |
| 11 | TYPICAL GAS APPLIANCE CONNECTION DETAIL |
| 12 | PLAN VIEW - FIRE SYSTEM PIPING LOCATIONS |
| 13 | HOOD MOUNTED FIRE SYSTEM DETAIL |
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| 16 | OPTIONAL ANSUL PREPIPING DETAILS - FRYER HOOD |
| 17 | HOOD MOUNTED FIRE SYSTEM ARRANGEMENT - FRYER HOOD |
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| 19 | FRYER HOOD EXHAUST DUCT EXTENSION DETAIL |
| 20 | FRYER HOOD ENCLOSURE PANELING DETAIL |
| 21 | HANGING DETAIL FOR FRYER HOOD |
| 22 | WALL FLASHING DETAIL |
| 23 | FRYER HOOD SECTION DETAIL |
| 24 | ROOF CURB MOUNTING DETAIL |
| 25 | EXHAUST FAN DUCT EXTENTION DETAILS |
| 26 | METAL-FAB GREASE DUCT DETAILS |
| 26.1 | OPTIONAL SQUARE DUCT KIT |
| 27 | PROCEDURE TO CONFIRM HOOD EXHAUST VLUME |
| 28 | BK HOOD-FAN FIRE SYSTEM-HVAC CONTROL MATRIX |



| | | | | | |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| 07 | JFA | 04/11/13 | No Change | | |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | |

DIMENSION TOLERANCE ± 1/4" (6mm)

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MODEL # | ITEM # | WORK ORDER #

GAYLORD INDUSTRIES TUALATIN, OR TEL: (503) 691-2010 Email: gaylord@gaylordusa.com

NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP.

DATE: 11-08-10 | DRAWING NO.: C-12634 | REV. NO.: 07 | SHEET NO.: 1.1 | DRAWN BY: JH | DWG. CHECK: | ELECT. CHECK: | F.P. CHECK: | S.E. APPROVAL:

## Contact Information for the Job Site Contractor

**Overview**

Typically the package provided by Gaylord Industries includes the following:
1. One Hood
2. One Metal Fab UL listed grease exhaust duct system
3. One Loren Cook exhaust fan
4. One Amerex fire system, to serve both Broiler & Fryer Hoods.

The shipment from Gaylord includes the following:
1. Broiler Hood
2. Broiler Hood Enclosure Panels
3. Broiler Hood Wall Flashing
4. One Exhaust Fan Discharge Duct Extension

The Metal-Fab grease exhaust duct systems are dropped shipped from their factory in Wichita, Kansas.

NOTE 1 : If optional Square Duct Kit is ordered, the kit will be shipped with the hood.

The Loren Cook exhaust fans and roof curb is dropped shipped from their factory in Springfield, Missouri.

**Contact Information**

**Shipment Information**
For shipment information on any of the equipment including the Metal-Fab duct, Loren Cook fan and Amerex fire system contact:
Gaylord Industries, Tualatin, Oregon:
1. John Anderson Direct Phone: 971-223-1238
E-Mail: johna@gaylordusa.com

**Hood Installation Questions**
Gaylord Industries, Tualatin Oregon:
1. John Anderson Direct Phone: 971-223-1238
E-Mail: johna@gaylordusa.com

**Metal-Fab Duct Installation Questions**
Metal-Fab Inc., Wichita, Kansas
1. Customer Service, Commercial Vent Products: 800-835-2830

**Loren Cook Fan Installation Questions**
Loren Cook Company, Springfield, Missouri:
1. David Ray Office Phone: 417-869-6474

**Amerex Fire System Installation Questions**
The Hood has been factory pre-piped for an Amerex fire system. The package from Gaylord includes complete installation of the Amerex fire system including all plans, permits, check out and certification. The local Amerex distributor will bring all the system components at the time of installation.

**Contact Information (Cont.)**

Important Note: The local Amerex distributor will make contact with the general contractor to set up the installation schedule. If you have not heard from the distributor contact:
Amerex Corporation, Trussville, Alabama
1. Karen Mann Office Phone: 205-655-5730

**Ansul Fire System Installation Questions**
Note: As an option , the hoods may be pre piped for an Ansul R-102 fire system. If this option is used, Gaylord does not provide complete installation.

If you have questions regarding Ansul installations & you do not know your local Ansul Distributor, contact:
Ansul Inc., Marinette, WI.
Office Phone: 800-862-6785

ELX-ND-BD-38-(BK-NA-FH-5-7) | MODEL # | ITEM # | WORK ORDER #
07 JFA 04/11/13 No Change
06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #
REV DWN. BY DATE DESCRIPTION CHK'D
GAYLORD INDUSTRIES
NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP.
DATE: 11-08-10 | DRAWING NO.: C-12634 | REV. NO.: 07 | SHEET NO.: 02 | DRAWN BY: JH

# NORTH AMERICA 5' - 7" FRYER HOOD SPECIFICATIONS

**Fryer Hood Specifications**
Gaylord model ELX-ND-BD-38-(BK-NA-FH-5-7) low proximity, wall mounted hood 5'-7" long x 38" front to back. The hood is designed to go over either a 3 Basket/2 Basket/3 Basket Fryer Configuration, or a four 2 basket fryer configuration. This hood is not designed for a 3 Basket/2 Basket/Fry Dispenser/3 Basket configuration. The hood utilizes patented high efficiency stainless steel Gaylord XGS Extractors. The hood design includes a built in 3" air space at the back for allowing direct mounting to a limited combustible wall (sheet rock on metal studs) for compliance to NFPA-96. Also built into the back of the hood are utility raceways that are used for gas piping and electrical services. The hood includes factory pre-piping for an Amerex KP fire extinguishing system or as an option may be pre-piped for an ANSUL R-102 fire system. The hood is constructed of all 18 gauge, type 300 series stainless steel, number 4 finish.

**Enclosure Panels**
Included is an enclosure kit to fill the space between the top of the hood and the finished ceiling. Lift-out doors in the front and right panels are provided to gain access to the duct access panel, fire protection equipment and static pressure tap. Panels are constructed of 18 gauge type 430 stainless steel, number 4 finish.

**Optional Wall Flashing**
One set of wall flashing for the fryer hood as shown on the drawings. Flashing constructed of 18 gauge type 430 stainless steel, number 4 finish.

**Hanging Weight:**
The hanging weight of the fryer hood is 350 lbs.

ELX-ND-BD-38-(BK-NA-FH-5-7) | MODEL # | ITEM # | WORK ORDER #
07 JFA 04/11/13 No Change
06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #
GAYLORD INDUSTRIES
NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP.
DATE: 11-08-10 | DRAWING NO.: C-12634 | REV. NO.: 07 | SHEET NO.: 03 | DRAWN BY: JH

## HOOD LISTING AND APPROVAL REFERENCE

FRYER HOOD
INTERTEK TESTING SERVICES, INC.
FRYER HOOD IS E.T.L. LISTED: EXHAUST HOODS WITHOUT EXHAUST DAMPERS, REPORT NO. 3192993CRT-002.
TESTED TO U.L. STANDARD 710 REQUIREMENTS.

NATIONAL FIRE PROTECTION ASSOCIATION
MEETS ALL REQUIREMENTS OF NFPA-96 "STANDARD FOR VENTILATION CONTROL & FIRE PROTECTION OF COMMERCIAL COOKING OPERATIONS"

NSF-NATIONAL SANITATION FOUNDATION
MEETS ALL REQUIREMENTS OF NSF STANDARD NO.2 "FOOD SERVICE EQUIPMENT"

MECHANICAL CODES
MEETS ALL REQUIREMENTS OF THE UMC, BOCA, SBCCI AND IMC.

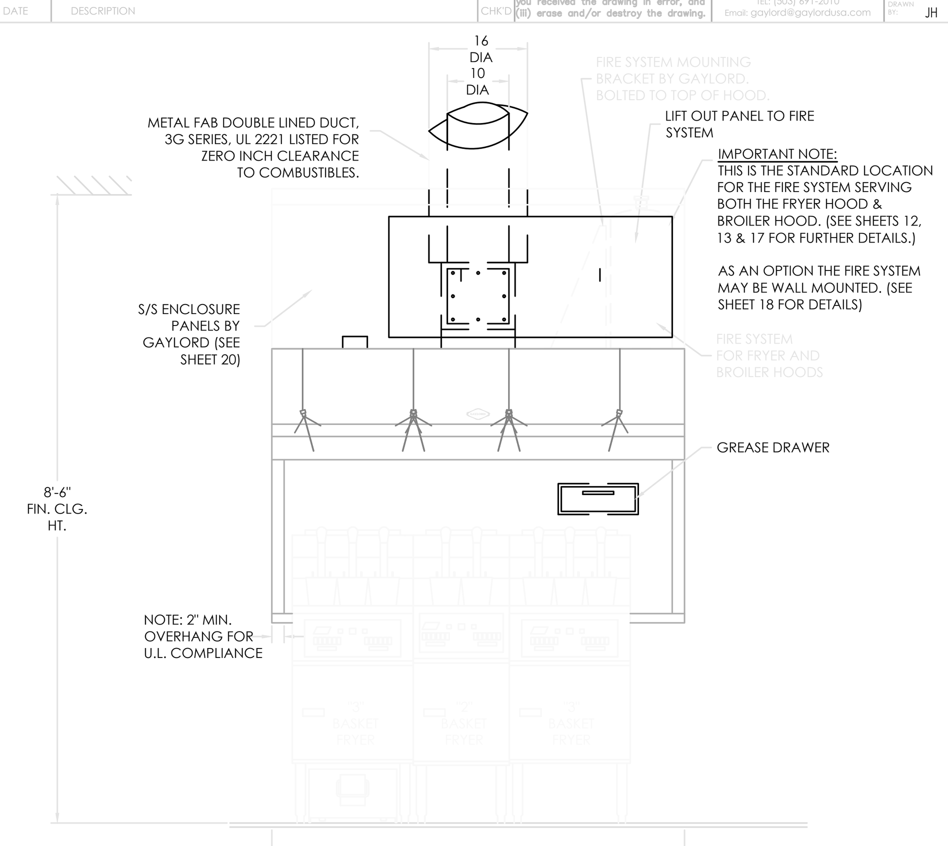
ELX-ND-BD-38-(BK-NA-FH-5-7) | MODEL # | ITEM # | WORK ORDER #
07 JFA 04/11/13 No Change
06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #
GAYLORD INDUSTRIES
NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP.
DATE: 11-08-10 | DRAWING NO.: C-12634 | REV. NO.: 07 | SHEET NO.: 03.1 | DRAWN BY: JH

**IMPORTANT NOTE:**
This drawing depicts two basic fryer configurations approved by Burger King Corporation.

FRONT ELEVATION 1
1ST BEST PRACTICE

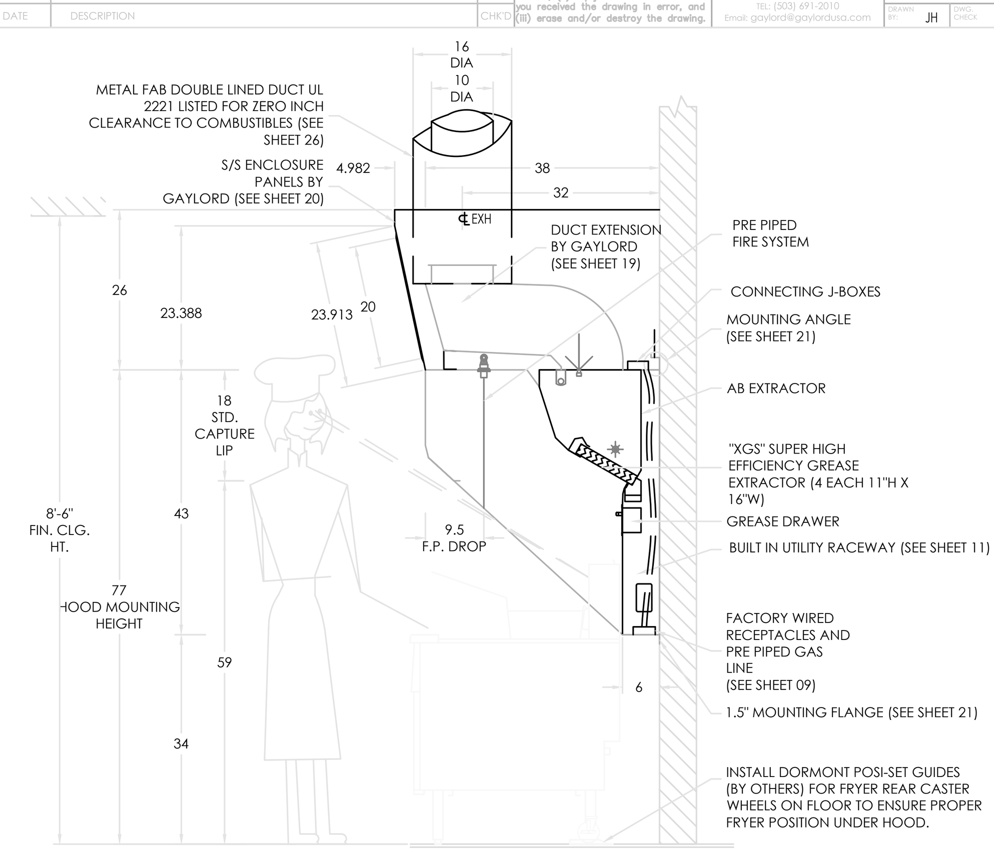
FRONT ELEVATION 2
2ND BEST PRACTICE

ELX-ND-BD-38-(BK-NA-FH-5-7) | MODEL # | ITEM # | WORK ORDER #
07 JFA 04/11/13 No Change
06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #
GAYLORD INDUSTRIES
NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP.
DATE: 11-08-10 | DRAWING NO.: C-12634 | REV. NO.: 07 | SHEET NO.: 04 | DRAWN BY: JH



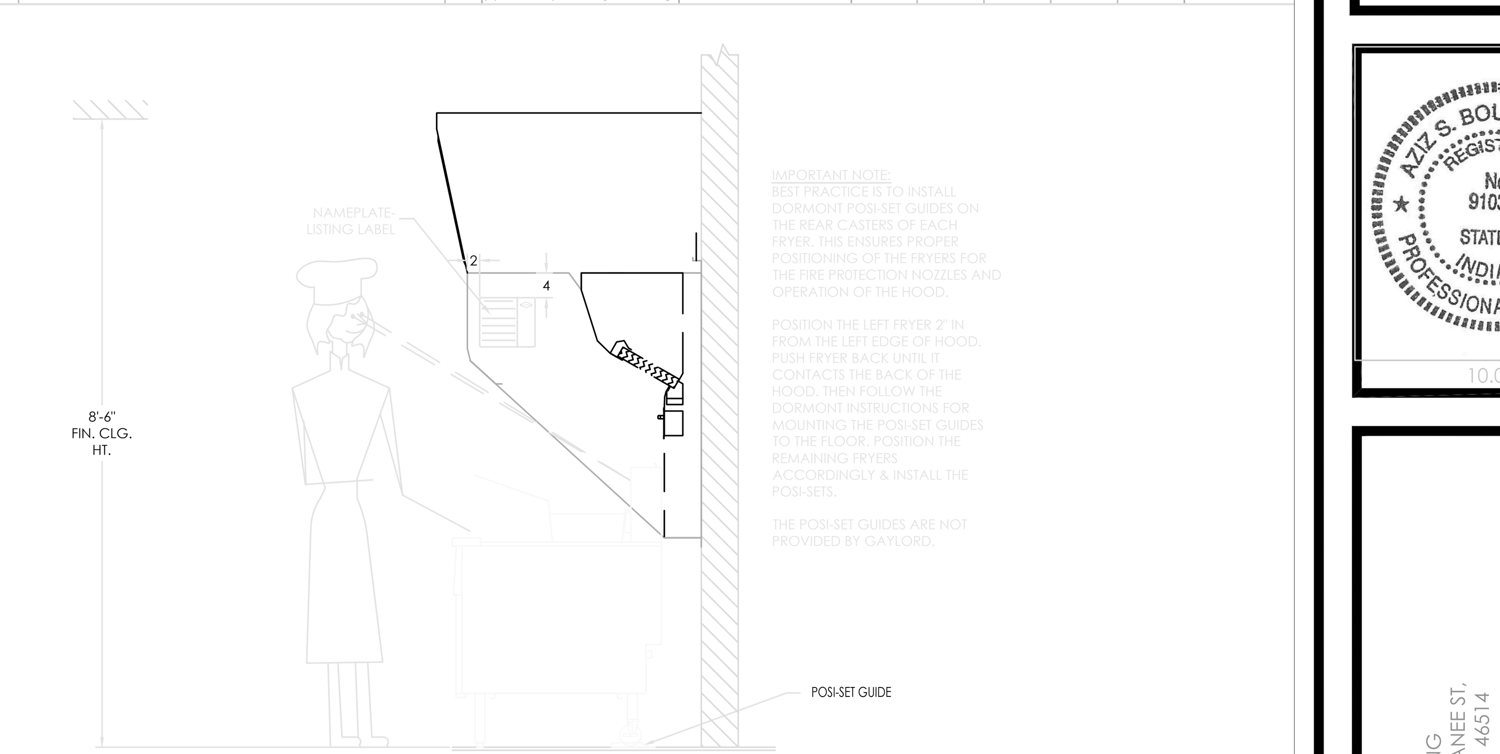

FRONT ELEVATION

ELX-ND-BD-38-(BK-NA-FH-5-7) | MODEL # | ITEM # | WORK ORDER #
07 JFA 04/11/13 No Change
06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #
GAYLORD INDUSTRIES
NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP.
DATE: 11-08-10 | DRAWING NO.: C-12634 | REV. NO.: 07 | SHEET NO.: 05 | DRAWN BY: JH




FRYER HOOD SECTION VIEW

ELX-ND-BD-38-(BK-NA-FH-5-7) | MODEL # | ITEM # | WORK ORDER #
07 JFA 04/11/13 No Change
06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #
GAYLORD INDUSTRIES
NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP.
DATE: 11-08-10 | DRAWING NO.: C-12634 | REV. NO.: 07 | SHEET NO.: 06 | DRAWN BY: JH




FRYER HOOD RIGHT END VIEW: HOOD LABELING & POSI-SET LOCATION

ELX-ND-BD-38-(BK-NA-FH-5-7) | MODEL # | ITEM # | WORK ORDER #
07 JFA 04/11/13 No Change
06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #
GAYLORD INDUSTRIES
NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP.
DATE: 11-08-10 | DRAWING NO.: C-12634 | REV. NO.: 07 | SHEET NO.: 07 | DRAWN BY: JH

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP, inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P:(248) 426-8000 F:(248) 426-7004

AZIZ S. BOU-MAROUN REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
GAYLORD FRYER HOOD DRAWINGS

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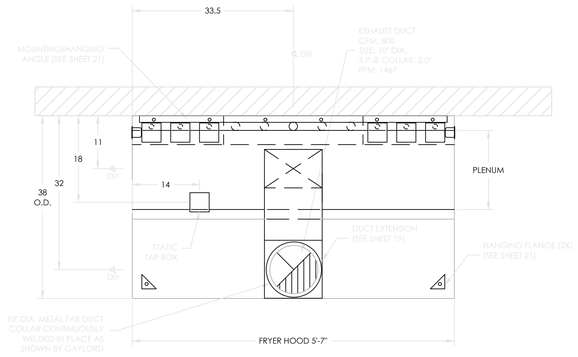
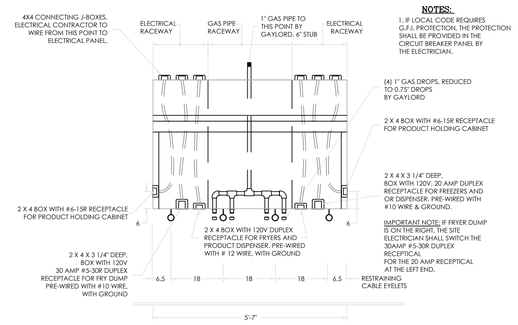
JOB # TG-21668

SHEET M-7




PLAN VIEW

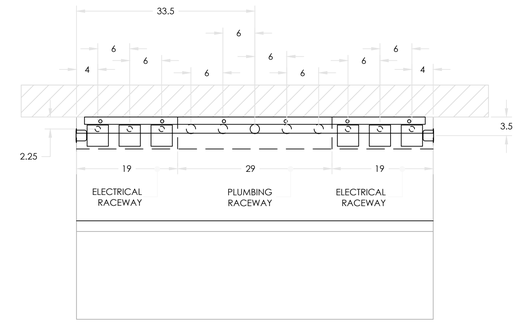



NOTES:

1. IF LOCAL CODE REQUIRES G.F.I. PROTECTION, THE PROTECTION SHALL BE PROVIDED IN THE CIRCUIT BREAKER PANEL BY THE ELECTRICIAN.

IMPORTANT NOTE: IF FRYER DUMP IS ON THE RIGHT, THE SITE ELECTRICIAN SHALL SWITCH THE 30AMP #5-30R DUPLEX RECEPTICAL FOR THE 20 AMP RECEPTICAL AT THE LEFT END.

FRONT ELEVATION-UTILITIES




PLAN VIEW UTILITIES

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 04/11/13 | No Change | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-08-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 08 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |

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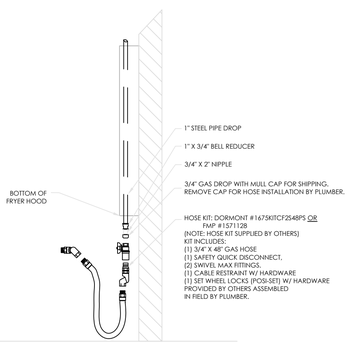
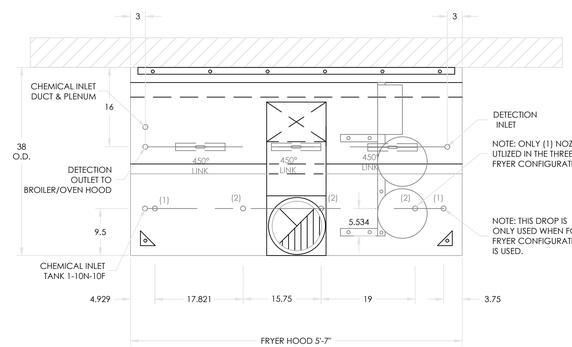
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 04/11/13 | No Change | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-08-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 09 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 04/11/13 | No Change | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-08-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 10 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |

IMPORTANT NOTE:
THIS DRAWING DEPICTS BEST PRACTICE FOR INDIVIDUAL FRYERS. FOR A FRYER BATTERY, USE A SINGLE 1" HOSE KIT:
DORMONT #16100KITCF2648PS OR
FMP #1571129
(NOTE: HOSE KIT SUPPLIED BY OTHERS)



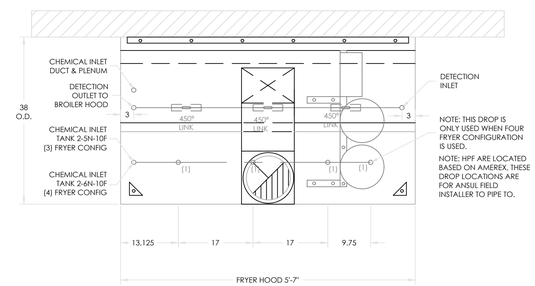

TYPICAL GAS APPLIANCE CONNECTION




NOTE: ONLY (1) NOZZLE IS UTLIZED IN THE THREE FRYER CONFIGURATION.

NOTE: THIS DROP IS ONLY USED WHEN FOUR FRYER CONFIGURATION IS USED.

PLAN VIEW - AMEREX FIRE SYSTEM PIPING LOCATIONS




NOTE: THIS DROP IS ONLY USED WHEN FOUR FRYER CONFIGURATION IS USED.

NOTE: HPF ARE LOCATED BASED ON AMEREX, THESE DROP LOCATIONS ARE FOR ANSUL FIELD INSTALLER TO PIPE TO.

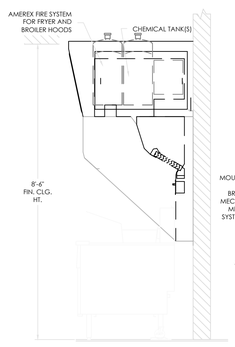
PLAN VIEW - OPTIONAL ANSUL FIRE SYSTEM PIPING LOCATIONS

FIRE PROTECTION SYSTEM NOTES
ANSUL R-102-MS

PLACEMENT OF FIRE PROTECTION NOZZLES MUST BE VERIFIED IN RELATION TO THE COOKING EQUIPMENT, PRIOR TO VENTILATOR FABRICATION.

FACTORY PRE-PIPED FOR ANSUL SYSTEM, NOT INCLUDING APPLIANCE DROPS, WITH SURFACE MOUNTED DETECTION BRACKETS, BY GAYLORD.
ANSUL TANKS, HARDWARE AND FIELD INSTALLATION BY OTHERS.
ANSUL SYSTEM FACTORY PRE-PIPED CHEMICAL LINES INCLUDING DUCT AND PLENUM WITH NOZELES INSTALLED, MAIN APPLIANCE DROPS (SEE PLAN OF VENTILATOR DRAWING) CAPPED, TERMINATING AT THE TOP OF VENTILATOR WITH ANSUL DISCONNECT FITTING AND CHROME PLATED 3/8" COUPLER. INCLUDES FACTORY PRE-PIPED DETECTION LINES WITH SURFACE MOUNTED DETECTOR BRACKETS. INSTALLATION BY CERTIFIED FACTORY INSTALLERS.
EXCLUDES:
* PLANS AND PERMITS
* PERMITS AND PREVAILING WAGE
* PARTS AND INSTALLATION OF CHEMICAL AND DETECTION LINES FROM TANK(S) TO CONNECTION POINTS ON HOOD
* TANKS AND INSTALLATION OF TANKS AND ALL RELATED COMPONENTS
* GAS VALVE(S) AND INSTALLATION OF GAS VALVE(S)
* PARTS FOR AND INSTALLATION OF REMOTE PULL STATION(S)
* ELECTRICAL DISCONNECTS
* PARTS AND LABOR FOR ANY ELECTRICAL INTERCONNECTIONS
* JOB SITE, REPOSITIONING OF TERMINATED APPLIANCE
* ANY OTHER COOKING EQUIPMENT(S) NOT INSTALLED PER GAYLORD APPROVED DRAWINGS
* TRIP TEST AND CERTIFICATION
* APPLIANCE PIPE DROP(S) AND NOZELES
* CHEMICAL
* DETECTOR CABLE
* FUSIBLE LINKS AND LINKAGE
* MANUAL RESET BUTTON(S)
* ASSEMBLED DUCT SYSTEM(S)
* INSPECTION AND SERVICING

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ANSUL R-102-MS / ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 04/11/13 | No Change | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-08-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 11 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |




FRYER HOOD HOUSING MOUNTED AMEREX FIRE SYSTEM DETAIL




FIRE SYSTEM BRACKET DETAIL UNIVERSAL FOR AMEREX OR ANSUL SYSTEM

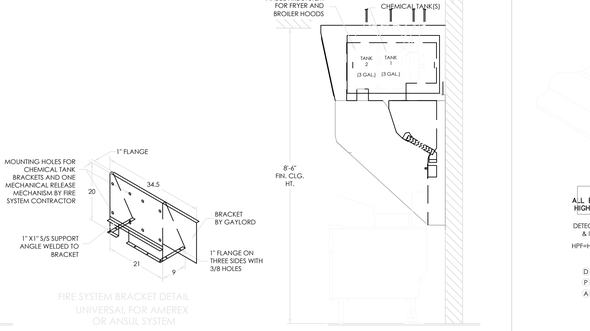



FRYER HOOD HOUSING MOUNTED OPTIONAL ANSUL FIRE SYSTEM DETAIL

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ANSUL R-102-MS / AMEREX-KP-2T-15N / ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 4/11/13 | No Change | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-09-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 14 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | AMEREX-KP-2T-15N / ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 04/11/13 | CHANGE TO 3 DETECTOR BRACKETS | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-08-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 12 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |

IMPORTANT NOTE:
HOODS MUST NOT BE SEPARATED PAST 26"-0" TO MEET AMEREX REQUIREMENTS.




IMPORTANT NOTE:
ALL BLOW OFF CAPS TO BE HIGH TEMPERATURE METAL

DETECTOR BRACKETS FURNISHED & INSTALLED BY GAYLORD.

HPF=HOOD PENETRATION FITTING

D = DUCT NOZZLE
P = PLENUM NOZZLE
A = APPLIANCE NOZZLE

| AMEREX FLOW POINT CALCULATION CHART | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | FRYER HOOD | | | | BROILER HOOD (EMS) | | BROILER HOOD (NECO) | |
| NOZZLE PART # | FLOW POINTS EACH | TOTAL # OF NOZZLES REQUIRED | FLOW POINTS EACH | TOTAL FLOW POINTS | TOTAL # OF NOZZLES REQUIRED | TOTAL FLOW POINTS | TOTAL # OF NOZZLES REQUIRED | TOTAL FLOW POINTS |
| #11982 PLENUM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| #16416 DUCT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| #11982 PRYER | 1 | 4 | 1 | 4 | | | | |
| #12129 DUKE MFRM | 2 | | | | 2 | 4 | | |
| #12129 NECO MFRM | 2 | | | | | | 2 | 4 |
| TOTAL FLOW POINTS | | | | 8 | | 6 | | 6 |

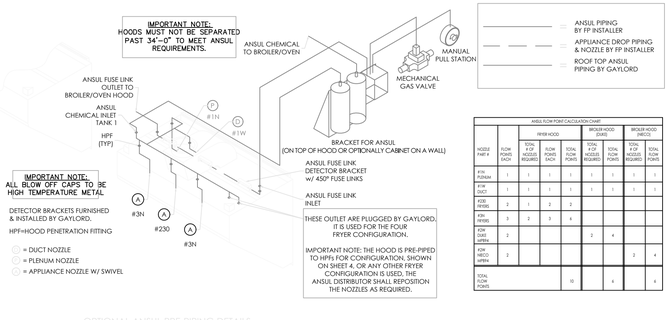
THIS OUTLET IS PLUGGED BY GAYLORD. IT IS USED FOR THE FOUR FRYER CONFIGURATION.

IMPORTANT NOTE: THE HOOD IS PRE-PIPED WITH NOZZLE DROPS FOR THREE FRYER CONFIGURATION, AS SHOWN ON SHEET 4 FRONT ELEVATION #1, IF THE FOUR FRYER CONFIGURATION, AS SHOWN ON SHEET 4 ELEVATION #2, IS USED, OR ANY OTHER FRYER CONFIGURATION IS USED. THE AMEREX DISTRIBUTOR SHALL REPOSITION THE NOZZLES BY "ARMKIS" OVER AS REQUIRED.

AMEREX PRE-PIPING DETAILS FRYER HOOD

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | AMEREX-KP-2T / ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 4/11/13 | Change to 3 detector brackets | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-10-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 15 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |

IMPORTANT NOTE:
HOODS MUST NOT BE SEPARATED PAST 34"-0" TO MEET ANSUL REQUIREMENTS.




IMPORTANT NOTE:
ALL BLOW OFF CAPS TO BE HIGH TEMPERATURE METAL

DETECTOR BRACKETS FURNISHED & INSTALLED BY GAYLORD.

HPF=HOOD PENETRATION FITTING

D = DUCT NOZZLE
P = PLENUM NOZZLE
A = APPLIANCE NOZZLE W/ SWIVEL

THESE OUTLET ARE PLUGGED BY GAYLORD. IT IS USED FOR THE FOUR FRYER CONFIGURATION.

IMPORTANT NOTE: THE HOOD IS PRE-PIPED TO HPFs FOR CONFIGURATION, SHOWN ON SHEET 4, OR ANY OTHER FRYER CONFIGURATION IS USED. THE ANSUL DISTRIBUTOR SHALL REPOSITION THE NOZELES AS REQUIRED.

| ANSUL FLOW POINT CALCULATION CHART | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | FRYER HOOD | | | | BROILER HOOD (EMS) | | BROILER HOOD (NECO) | |
| NOZZLE PART # | FLOW POINTS EACH | TOTAL # OF NOZZLES REQUIRED | FLOW POINTS EACH | TOTAL FLOW POINTS | TOTAL # OF NOZZLES REQUIRED | TOTAL FLOW POINTS | TOTAL # OF NOZZLES REQUIRED | TOTAL FLOW POINTS |
| #1N PLENUM | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| #1W DUCT | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| #230 PRYER | 2 | 1 | 2 | 2 | | | | |
| #3N PRYER | 3 | 2 | 3 | 6 | | | | |
| #2W DUKE MFRM | 2 | | | | 2 | 4 | | |
| #2W NECO MFRM | 2 | | | | | | 2 | 4 |
| TOTAL FLOW POINTS | | | | 10 | | 6 | | 6 |

OPTIONAL ANSUL PRE-PIPING DETAILS FRYER HOOD

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ANSUL R-102-MS / ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 04-11-13 | Add note for field install of drops | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-08-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 13 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | ANSUL R-102-MS / ELX-ND-BD-38-(BK-NA-FH-5-7) | |
| | | | | | | | | MODEL # / ITEM # | WORK ORDER # |
| 07 | JFA | 4/11/13 | Change notes on appliance drops | | | | | NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. | 11-10-10 / C-12634 / 07 |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | | | | | JH | 16 |
| REV | DWN. BY | DATE | DESCRIPTION | CHK'D | DWN | CHK'D | APPROVAL | | |

| NO. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INCIDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

BURGER KING CORPORATION

TECHNICAL GROUP, inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
T:(248) 426-8630 F:(248) 426-7000

AZIZ S. BOU-MARON REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

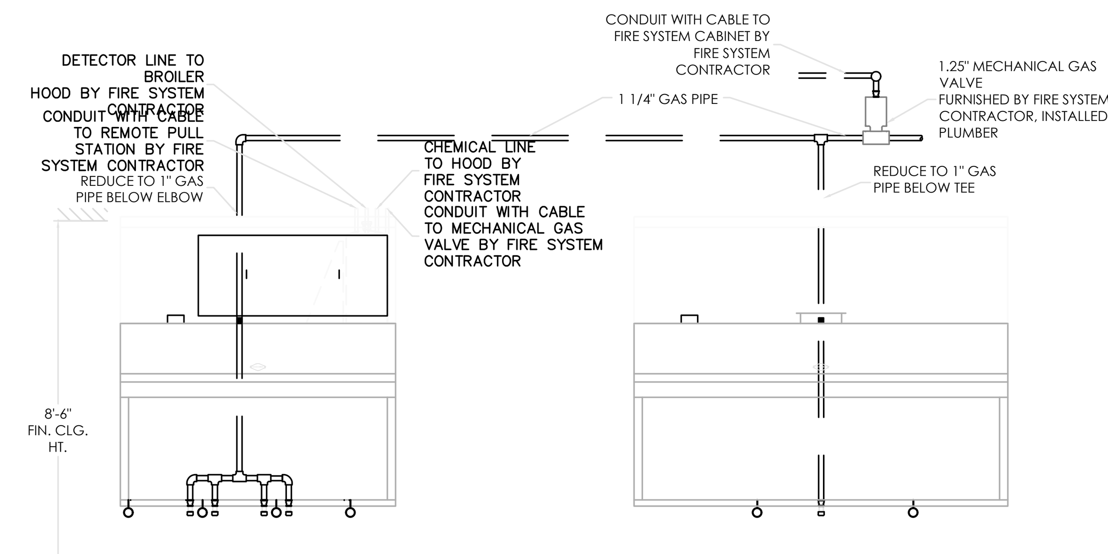
PROJECT
BURGER KING
1440 MAPPANES ST.
ELKHART, IN 46514

SHEET TITLE
FRYER HOOD DRAWINGS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET M-8




TYPICAL FRYER HOOD — TYPICAL BROILER HOOD

TYPICAL STANDARD HOOD MOUNTED FIRE SYSTEM ARRANGEMENT USING ONE SYSTEM TO SERVE BOTH HOODS

ELX-ND-BD-38-(BK-NA-FH-5-7) | MODEL # | ITEM # | WORK ORDER #

| REV | DWN. BY | DATE | DESCRIPTION | CHK'D |
|---|---|---|---|---|
| 07 | JFA | 4/11/13 | No Change | |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | |

DIMENSION TOLERANCE ± 1/4" (6mm)

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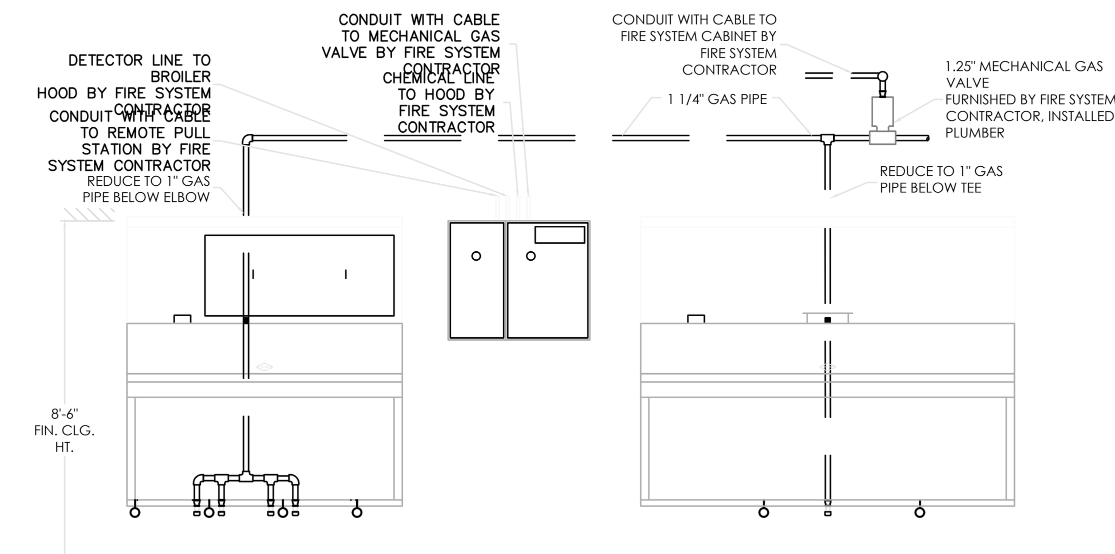
GAYLORD® INDUSTRIES, TUALATIN, OR, TEL: (503) 691-2010, Email: gaylord@gaylordusa.com

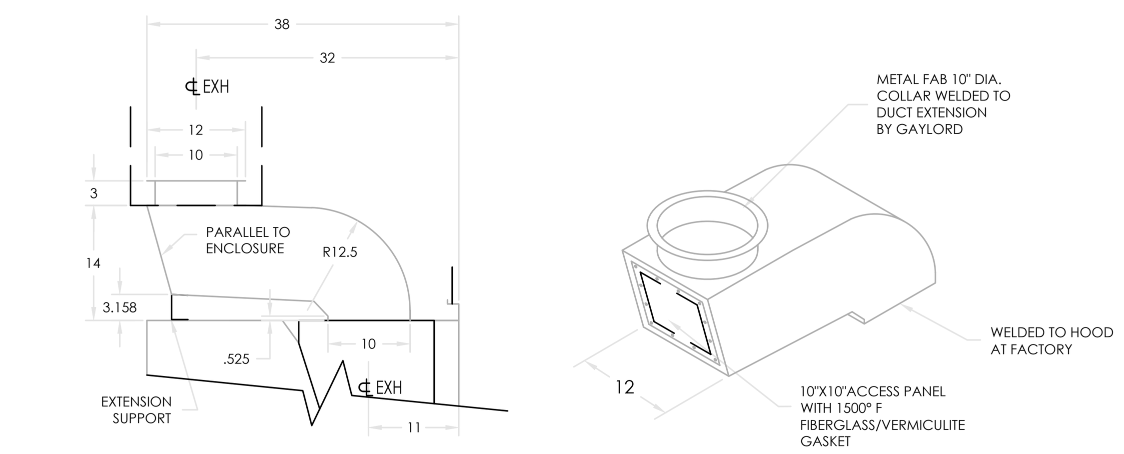
NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — DRAWN BY: JH — DATE: 11-10-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 17




TYPICAL FRYER HOOD — TYPICAL BROILER HOOD

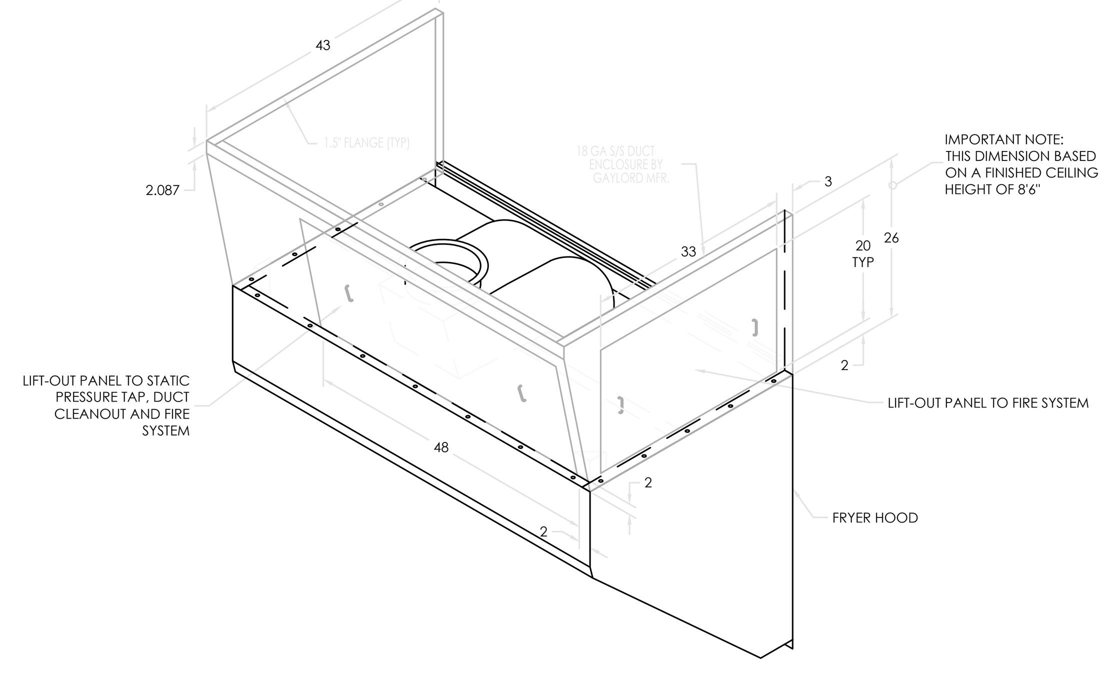
TYPICAL OPTIONAL WALL MOUNTED FIRE SYSTEM ARRANGEMENT USING ONE SYSTEM TO SERVE BOTH HOODS

NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — ELX-ND-BD-38-(BK-NA-FH-5-7) — DRAWN BY: JH — DATE: 11-10-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 18 — 07 JFA 4/11/13 No Change; 06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #



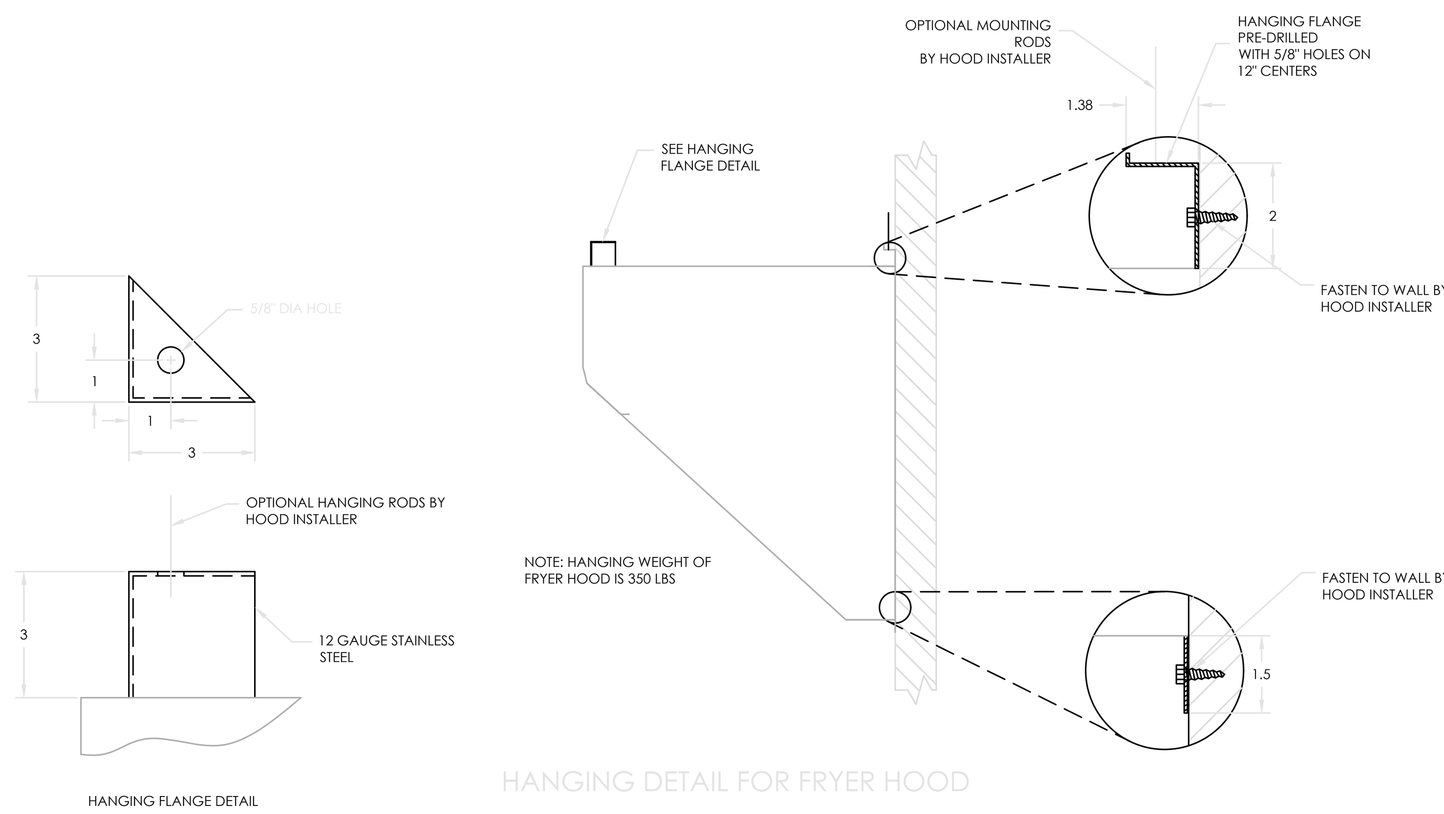

FRYER HOOD EXHAUST DUCT EXTENSION STAINLESS STEEL

NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — ELX-ND-BD-38-(BK-NA-FH-5-7) — DRAWN BY: JH — DATE: 11-11-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 19 — 07 JFA 4/11/13 No Change; 06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #



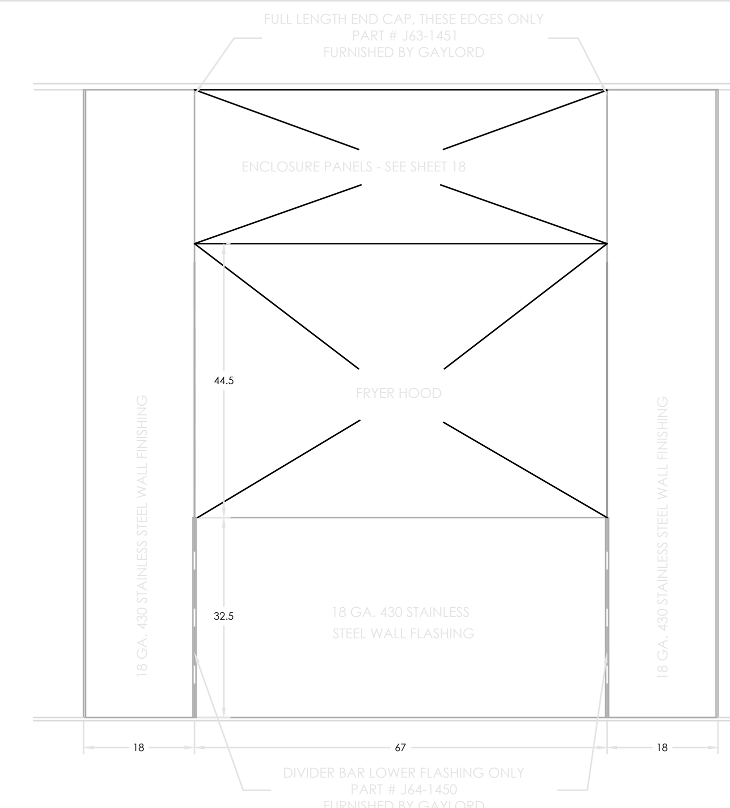

FRYER HOOD ENCLOSURE PANELING DETAIL

NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — ELX-ND-BD-38-(BK-NA-FH-5-7) — DRAWN BY: JH — DATE: 11-11-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 20 — 07 JFA 4/11/13 No Change; 06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #




HANGING DETAIL FOR FRYER HOOD

NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — ELX-ND-BD-38-(BK-NA-FH-5-7) — DRAWN BY: JH — DATE: 11-10-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 21 — 07 JFA 4/11/13 No Change; 06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #



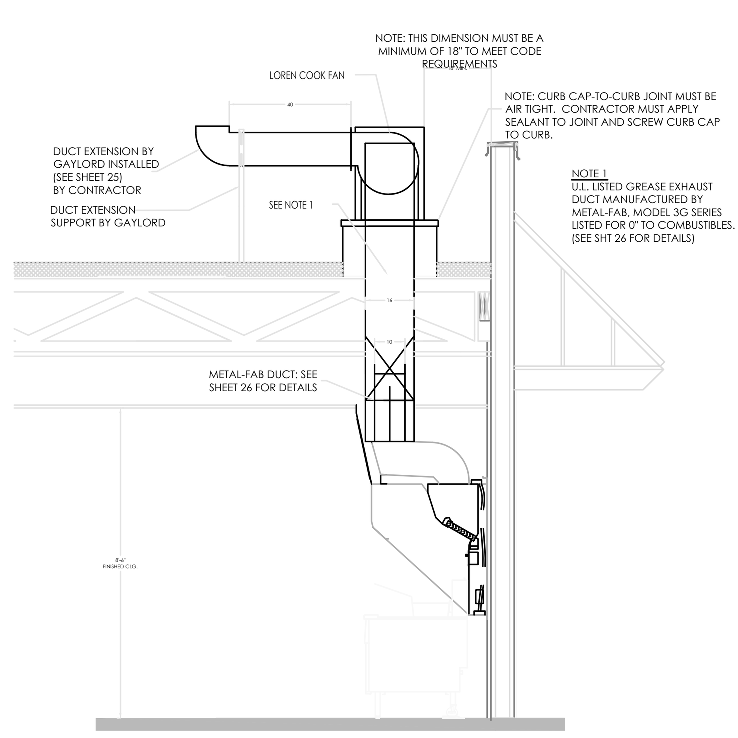

WALL FLASHING DETAIL

PROVIDED BY GAYLORD

NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — ELX-ND-BD-38-(BK-NA-FH-5-7) — DRAWN BY: JH — DATE: 11-11-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 22 — 07 JFA 4/11/13 No Change; 06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #

FRYER EXHAUST FAN SPECS
COOK MODEL 100 CPS: 800 CFM, S.P 2.5, CCW ROTATION 2675 RPM, 1 HP 208V/1 PH/60 MOTOR, UL 762, HI-TEMP EZ CLEAN COAT, STEEL ACCESS DOOR, STEEL DRAIN, HANGING GREASE TROUGH, PREWIRED NEMA 3 DISCONNECT,TOP HORIZONTAL DISCHARGE WITH UL 762 PUNCHED FLANGE, PREWIRED CURRENT SENSOR, ROOF CURB AND CURB CAP & INLET BOX.

ROOF CURB SPECS
COOK MODEL RCG-30x46x18
NO NAILER




FRYER HOOD SECTION VIEW

NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — ELX-ND-BD-38-(BK-NA-FH-5-7) — DRAWN BY: JH — DATE: 11-11-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 23 — 07 JFA 4/11/13 No Change; 06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #

**Instructions for Mounting the Roof Curb Typical for both the Fryer & Broiler fans**

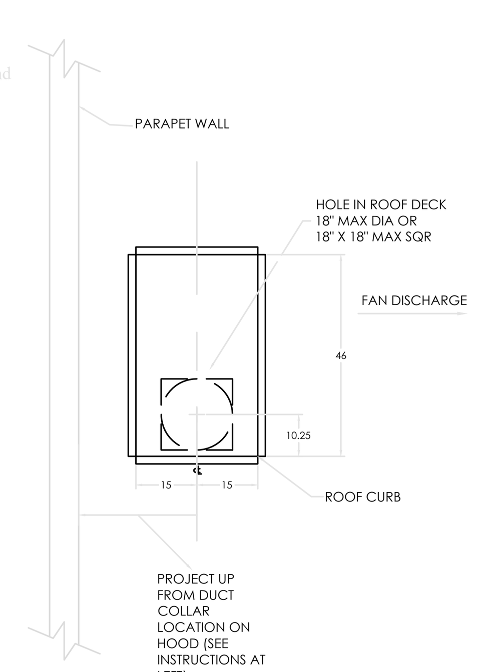
**Cutting Hole in The Roof Deck1. One Hood**

1. The hood exhaust duct collar is located , left to right, in the center of the hood, and located 32" off the sheet-rocked kitchen wall to the center of the duct.
2. Project this centerline dimension to the roof deck and cut a hole a minimum of 17" in diameter and no greater than 18". A square hole of the same dimension may also be cut. A square hole of the same dimension may also be cut.

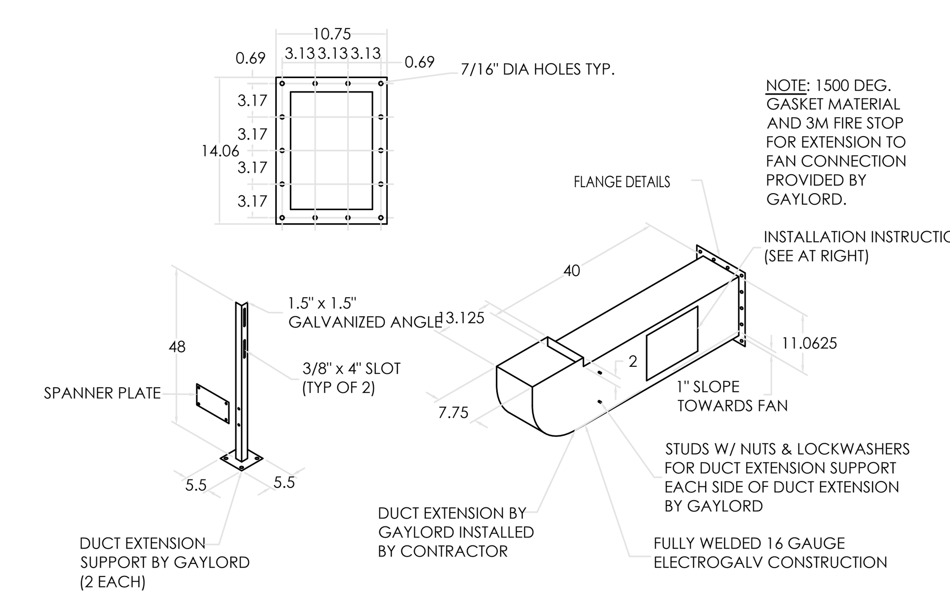
**Spotting the Roof Curb**

1. The roof curb is not symmetrical and therefore it is very important that it be installed per these instructions.
2. The curb is set at parallel the parapet wall as shown on the illustration at the right.
3. The discharge of the exhaust fan is horizontal and faces away from the roof parapet.
4. As you face the parapet wall (imagine fan outlet facing you when in place) the left out side edge of the curb should be 10.25" to the left of the centerline of the hole cut in the roof deck. You should then have 35.75" from the centerline of the hole to the right hand edge of the curb.
5. The curb should be set away from the parapet wall so that it is centered over the hole in the roof deck.
6. Attach the curb to the roof with the appropriate number and size of screws through the roof curb flange.

**STOP**
Do not install the exhaust fan. The Metal-Fab grease duct must be installed before the exhaust fan. Refer to Sheet #26 and Metal-Fab Factory Instructions.




NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — ELX-ND-BD-38-(BK-NA-FH-5-7) — DRAWN BY: JH — DATE: 11-11-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 24 — 07 JFA 4/11/13 No Change; 06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #




FRYER HOOD EXHAUST FAN DUCT EXTENSION

**INSTALLATION INSTRUCTIONS**

After the exhaust fan is mounted on the curb, use the following instructions to install the Fan Duct Extension:

1. Attach the two fan discharge extension support legs to the duct extension with the nuts provided. Do not tighten.
2. Attach the spanner plate to the two duct extension support legs with the bolts and nuts provided. Tighten
3. Apply a 1/8" bead of 3M Fire Stop (provided) to the exhaust fan outlet flange and the fan discharge extension flange.
4. Place the 1500 degree gasket material on one of the flanges, allowing the 3M fire stop to hold it in place.
5. Clamp the two flanges together and bolt together with the bolts, washers, and nuts provided. Tighten
6. Adjust the support legs so the duct extension slopes slightly towards the fan and tighten the nuts.
7. Screw the duct extension support leg flanges to the roof with the appropriate size screws. These screws are not provided by Gaylord.

NORTH AMERICA FRYER HOOD 5'-7" FOR BURGER KING CORP. — ELX-ND-BD-38-(BK-NA-FH-5-7) — DRAWN BY: JH — DATE: 11-11-10 — DRAWING NO.: C-12634 — REV. NO.: 07 — SHEET NO.: 25 — 07 JFA 4/11/13 No Change; 06 JFA 11/5/11 MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED #

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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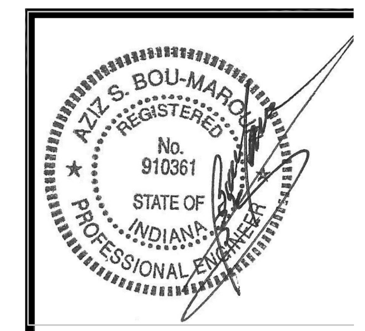
FARMINGTON HILLS, MI 48331
P:(248) 426-8000 F:(248) 426-7004




10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST,
ELKHART, IN 46514

SHEET TITLE
FRYER HOOD DRAWINGS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET M-9

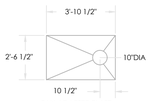
NOTES:

1. METAL-FAB GREASE DUCT IS UL LISTED FOR 0" CLEARANCE TO COMBUSTIBLES:
> UL 1978
> UL 2221
> UL FILE #MH25506

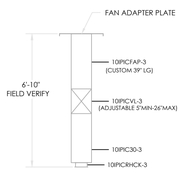
2. INSTALLATION INSTRUCTIONS ARE INCLUDED WITH THE METAL-FAB PRODUCT. THESE INSTRUCTIONS CAN ALSO BE FOUND AT:
http://www.metal-fabcommercial.com/media/12502.pdf

3. ADDITIONAL METAL-FAB INFORMATION CAN BE OBTAINED BY VISITING www.greaseduct.com OR CALLING 800-835-2830

4. THE MAXIMUM DISTANCE FROM THE RESTAURANT FLOOR TO THE TOP OF THE ROOF DECK THAT THIS COMBINATION OF DUCT COMPONENTS AND HOOD WILL FIT IS 13'-10" (166"). VERIFY PRIOR TO ORDERING PRODUCT. THIS COMBINATION WILL FIT PROTOTYPICAL ROC AND ROC 20/20 ROOF DECK HEIGHTS. IF THE BUILDING IS A 20/20 EDGE OR A NON-STANDARD ROC BUILDING, ADDITIONAL SPOOLS MAY BE NECESSARY FOR ADDITIONAL COST. CONTACT GAYLORD FOR INFORMATION.




FAN ADAPTER PLATE
10 FIT 46 X 30 CURB




FRYER HOOD DUCT

## METAL-FAB DUCT COMPONENTS

| | | | | |
|---|---|---|---|---|
| 07 | JFA | 4/11/13 | No Change | |
| 06 | JFA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | |
| REV | DRN. BY | DATE | DESCRIPTION | CHK'D |

ELX-ND-BD-38-(BK-NA-FH-S-7)

DIMENSION TOLERANCE ± 1/4" (6mm)

MODEL # | ITEM # | WORK ORDER #

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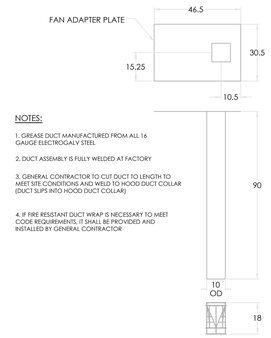
GAYLORD® INDUSTRIES
Knowledge Is Power
Tel. (908) 691-2000
Email: gaylord@gaylordusa.com

NORTH AMERICA FRYER HOOD
5'-7"
FOR BURGER KING CORP.

| | |
|---|---|
| | 11-11-10 |
| | C-12634 |
| | 07 |
| | 26 |

DRAWN BY: JH | CHK'D | APPR'D | CHK'D | APPROVAL



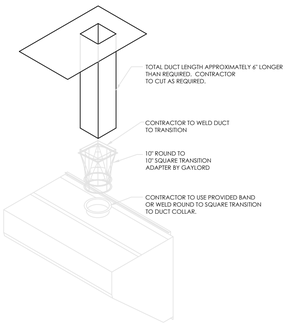

NOTES:

1. GREASE DUCT MANUFACTURED FROM ALL 16 GAUGE ELECTROGALV STEEL

2. DUCT ASSEMBLY IS FULLY WELDED AT FACTORY

3. GENERAL CONTRACTOR TO CUT DUCT TO LENGTH TO MEET SITE CONDITIONS AND WELD TO HOOD DUCT COLLAR (DUCT SLIPS INTO HOOD DUCT COLLAR)

4. IF FIRE RESISTANT DUCT WRAP IS NECESSARY TO MEET CODE REQUIREMENTS, IT SHALL BE PROVIDED AND INSTALLED BY GENERAL CONTRACTOR




## OPTIONAL SQUARE DUCT KIT

USE THIS DUCT KIT WHEN METAL-FAB DUCT IS NOT USED.

| | | | | |
|---|---|---|---|---|
| 07 | JFA | 4/11/13 | No Change | |
| 06 | JFA | 11/5/11 | ADD THIS SHEET | |
| REV | DRN. BY | DATE | DESCRIPTION | CHK'D |

ELX-ND-BD-38-(BK-NA-FH-S-7)

DIMENSION TOLERANCE ± 1/4" (6mm)

MODEL # | ITEM # | WORK ORDER #

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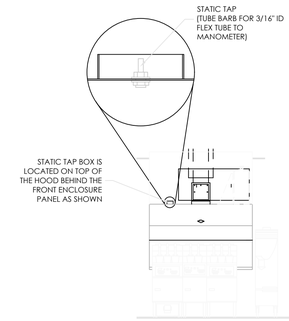
NORTH AMERICA FRYER HOOD
5'-7"
FOR BURGER KING CORP.

| | |
|---|---|
| | 11-11-10 |
| | C-12634 |
| | 07 |
| | 26.1 |

DRAWN BY: JA | CHK'D | APPR'D | CHK'D | APPROVAL




GAYLORD RECOMMENDS MEASURING THE STATIC PRESSURE IN THE PLENUM AS THE MEANS BY WHICH TO DETERMINE EXHAUST FLOW. THE STATIC TAP IS ACCESSED BEHIND A PLATE LOCATED AS SHOWN IN THE DRAWING TO THE LEFT.

REQUIREMENTS:
- A MANOMETER THAT READS IN INCHES OF WATER COLUMN AND A 3/16" ID FLEXIBLE TUBE TO CONNECT THE STATIC TAP TO THE MANOMETER
- READING MUST BE TAKEN AT ROOM TEMPERATURE WITH COOKING EQUIPMENT OFF AND COOL

THE PROPER STATIC PRESSURE READING FOR THE 850 CFM SPECIFIED FOR THIS HOOD AND COOKING EQUIPMENT = 0.37 IN W.G.

## PROCEDURE TO CONFIRM HOOD EXHAUST VOLUME

| | | | | |
|---|---|---|---|---|
| 07 | JFA | 4/11/13 | No Change | |
| 06 | JA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | |
| REV | DRN. BY | DATE | DESCRIPTION | CHK'D |

ELX-ND-BD-38-(BK-NA-FH-S-7)

DIMENSION TOLERANCE ± 1/4" (6mm)

MODEL # | ITEM # | WORK ORDER #

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NORTH AMERICA FRYER HOOD
5'-7"
FOR BURGER KING CORP.

| | |
|---|---|
| | 11-11-10 |
| | C-12634 |
| | 07 |
| | 27 |

DRAWN BY: JH | CHK'D | APPR'D | CHK'D | APPROVAL

| BK ROC HOOD / EX. FAN / FIRE SYSTEM / HVAC CONTROL MATRIX AS OF 10-14-09 | | | | | | |
|---|---|---|---|---|---|---|
| | REACTION | | | | | |
| ACTION | EX FAN | ELECT PWR TO COOKING EQUIP | MECH. GAS VALVE | HVAC UNITS | MAKE-UP AIR UNIT (IF APP-LICABLE) | COMMENTS |
| FAN SW TURNED ON | ON | ON | ON | ON | ON | HVAC UNITS MUST BE ON BEFORE EX FAN CAN COME ON |
| FAN SW TURNED OFF | OFF | OFF | ON | ON | OFF | |
| FIRE SYSTEM DISCHARGES | ON | OFF | OFF | OFF | OFF | |
| SLIPPING FAN BELT | ON | OFF | ON | ON | OFF | POWER TO COOKING EQUIP, OFF VIA CURRENT SENSOR |
| BROKEN FAN BELT | ON | OFF | ON | ON | OFF | POWER TO COOKING EQUIP, OFF VIA CURRENT SENSOR |
| POWER OUTAGE | OFF | OFF | ON | OFF | OFF | |
| HVAC SYSTEM TURNED OFF | OFF | OFF | ON | OFF | OFF | |

ELX-ND-BD-38-(BK-NA-FH-S-7)

DIMENSION TOLERANCE ± 1/4" (6mm)

MODEL # | ITEM # | WORK ORDER #

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NORTH AMERICA FRYER HOOD
5'-7"
FOR BURGER KING CORP.

| | |
|---|---|
| | 11-11-10 |
| | C-12634 |
| | 07 |
| | 28 |

DRAWN BY: JH | CHK'D | APPR'D | CHK'D | APPROVAL

| | | | | |
|---|---|---|---|---|
| 07 | JFA | 4/11/13 | No Change | |
| 06 | JA | 11/5/11 | MOVE C-12680 REV 01 TO C-12634 REV 6 BK APROVED # | |
| REV | DRN. BY | DATE | DESCRIPTION | CHK'D |

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | IN-BOT SUBMITTAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP, inc.
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P: (248) 426-8001 F: (248) 426-7001

AZIZ S. BOU-MANSOUR
REGISTERED
No. 910361
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
FRYER HOOD DRAWINGS

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JOB #
TG-21668

SHEET
M-10

HVAC SYSTEM

**N • C • A**

CONSULTANTS/GROUP

NATIONAL CORPORATE ACCOUNT SERVICES, INC.

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**FOR SITE-SPECIFIC DESIGN, ARCHITECTS EMAIL REFLECTED CEILING PLAN, ELEVATIONS, KITCHEN PLANS, FLOOR PLAN, AND ROOF STRUCTURAL PLAN TO DESIGN@NCACONSULTANTS.COM**

**TO CONTACT THE DESIGN DEPARTMENT BY PHONE CALL TOLL-FREE (877) 530-0078.**

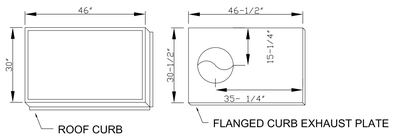
| DATE | DESCRIPTION | BY |
|---|---|---|
| 12-01-14 | PROTOTYPE USE ONLY | AM |

NOT FOR CONSTRUCTION

## STEP-1

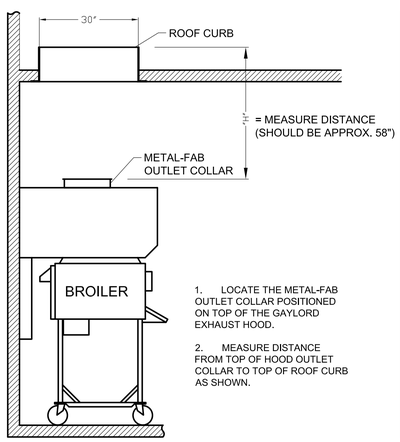
A. COORDINATE WITH THE LATEST KITCHEN EQUIPMENT PLANS PRIOR TO INSTALLATION OF CURB. VERIFY WITH GENERAL CONTRACTOR.
B. MARK AND PLUMBOB THE LOCATION OF THE ROUND OPENING FROM FLOOR TO DECK.
C. PLACE CURB OVER OPENING BY USING DIMENSION GIVEN BELOW.
D. WHEN GREASE FLANGE ARRIVES PLACE ON CURB WITH ROUND OVER OPENING IN DECK.

HVAC CONTRACTOR SHALL NOT DISASSEMBLE THE EXHAUST FAN TO RECONFIGURE THE EXHAUST DISCHARGE




PLAN VIEW OF ROOF CURBS

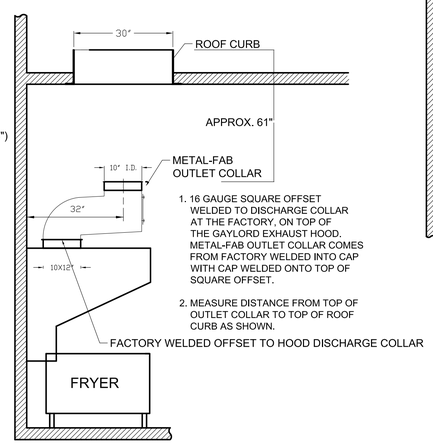
## STEP-2 BROILER HOOD




1. LOCATE THE METAL-FAB OUTLET COLLAR POSITIONED ON TOP OF THE GAYLORD EXHAUST HOOD.

2. MEASURE DISTANCE FROM TOP OF HOOD OUTLET COLLAR TO TOP OF ROOF CURB AS SHOWN.

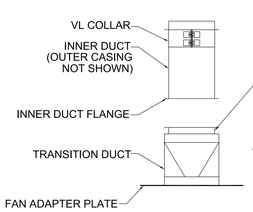
## STEP-2 (FRYER HOOD)



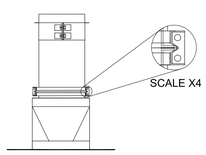

1. 16 GAUGE SQUARE OFFSET WELDED TO DISCHARGE COLLAR AT THE FACTORY, ON TOP OF THE GAYLORD EXHAUST HOOD. METAL-FAB OUTLET COLLAR COMES FROM FACTORY WELDED INTO CAP WITH CAP WELDED ONTO TOP OF SQUARE OFFSET.

2. MEASURE DISTANCE FROM TOP OF OUTLET COLLAR TO TOP OF ROOF CURB AS SHOWN.

## STEP-3



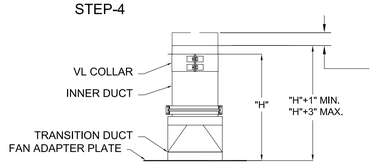

1. REMOVE THE OUTER CASING & INSULATION FROM THE VARIABLE LENGTH (VL) DUCT. (DO NOT DISCARD INSULATION OR CASING. IT WILL BE USED LATER).
2. PLACE THE "TRANSITION DUCT/FAN ADAPTER PLATE" UPSIDE DOWN ON THE ROOF (FAN ADAPTER PLATE AGAINST ROOF).
3. APPLY 1/4" BEAD OF SEALANT (PROVIDED) TO FLANGE.
4. APPLY SEALANT TO INSIDE GROOVE OF V-BAND. (THE V-BAND IS USED TO CLAMP INNER DUCT FLANGES TOGETHER.)
5. SET INNER DUCT FLANGE ON TRANSITION DUCT FLANGE.




1. ATTACH THE V-BAND CLAMP OVER THE INNER DUCT FLANGES.

**NOTE:** WHEN ATTACHING CLAMP BAND USE A RUBBER MALLET (OR OTHER) TO AID IN ASSEMBLY. TIGHTEN V-BAND CLAMP USING HEX DRIVE SCREWS PROVIDED TO COMPLETE A LIQUID TIGHT SEAL.

## STEP-4

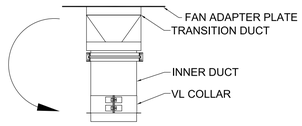



1. LOOSEN AND RELOCATE VL COLLAR TO "H" DIMENSION AS MEASURED IN STEP 1. RETIGHTEN SCREWS ON COLLAR. (DO NOT REMOVE COLLAR FROM PIPE SECTION.)

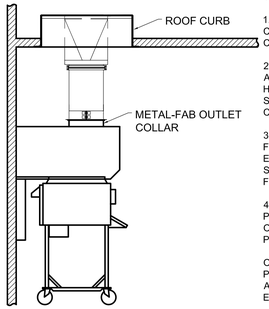
2. IF NEEDED, TRIM EXCESS DUCT LENGTH TO FINISHED LENGTH OF "H"+3 USING "H" LENGTH MEASURED IN STEP 2.

NOTE: FINISHED LENGTH OF "H"+1" (MINIMUM) UP TO "H+3" (MAXIMUM) IS ACCEPTABLE.

## STEP-4b Rotate duct 180°




## STEP-5 (BROILER)




THE FOLLOWING INSTRUCTIONS ARE USED TO ALIGN THE GREASE DUCT TO THE HOOD OUTLET COLLAR.

1. TURN THE DUCT ASSEMBLY OVER & CAREFULLY SLIDE THROUGH THE FAN CURB.

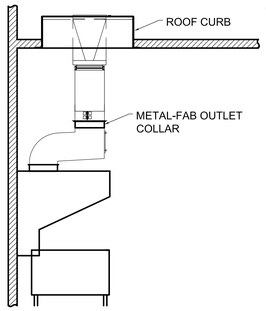
2. CONTINUE LOWERING THE ASSEMBLY, AS IT APPROACHES THE HOOD, ALIGN THE OUTLET COLLAR & SLIP THE ASSEMBLY INTO THE COLLAR.

3. CHECK THE FAN ADAPTER PLATE FOR PROPER POSITION. THE OUTSIDE EDGE OF THE FAN ADAPTER PLATE SHOULD BE APPROXIMATELY 1/4" FROM EDGE OF ROOF CURB.

4. **NOTE:** IF THE FAN CURB IS NOT PROPERLY ALIGNED TO THE HOOD OUTLET COLLAR, THE FAN ADAPTOR PLATE CAN BE TRIMMED TO RE-ALIGN.

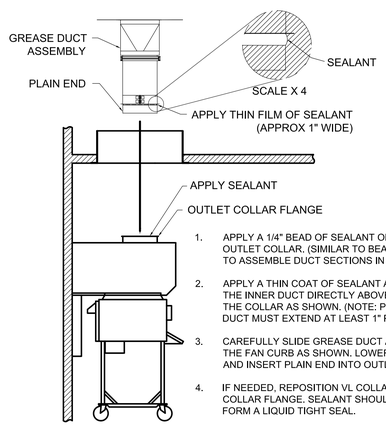
ONCE ALIGNMENT IS ESTABLISHED PROCEED TO **STEP-6** TO SEAL AND ASSEMBLE GREASE DUCT TO EXHAUST HOOD.

## STEP-5 (FRYER)




NOTE: ALL REMAINING INSTRUCTIONS PERTAIN TO BOTH BROILER EXHAUST HOOD AND FRYER EXHAUST HOOD, AS IN STEP-5.

## STEP-6




1. APPLY A 1/4" BEAD OF SEALANT ONTO THE FLANGE OF THE OUTLET COLLAR. (SIMILAR TO BEAD OF SEALANT USED TO ASSEMBLE DUCT SECTIONS IN STEP 3).

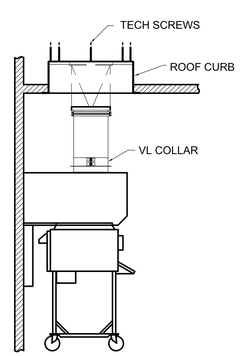
2. APPLY A THIN COAT OF SEALANT ABOUT 1" WIDE ON THE INNER DUCT DIRECTLY ABOVE THE FLANGE OF THE COLLAR AS SHOWN. (NOTE: PLAIN END OF THE INNER DUCT MUST EXTEND AT LEAST 1" PAST FLANGED COLLAR).

3. CAREFULLY SLIDE GREASE DUCT ASSEMBLY THROUGH THE FAN CURB AS SHOWN. LOWER ASSEMBLY INTO BUILDING, AND INSERT PLAIN END INTO OUTLET COLLAR OF HOOD.

4. IF NEEDED, REPOSITION VL COLLAR UP AGAINST OUTLET COLLAR FLANGE. SEALANT SHOULD BE COMPRESSED TO FORM A LIQUID TIGHT SEAL.

5. SECURE DUCT ASSEMBLY TO FAN CURB USING TECH SCREWS (NOT SUPPLIED). **IMPORTANT: RECTANGULAR PLATE OF DUCT ASSEMBLY MUST BE EVENLY CENTERED OVER FAN CURB. BEFORE SECURING TO FAN CURB, VERIFY THAT OUTER SURFACE OF GREASE DUCT MAINTAINS A MINIMUM 1-INCH CLEARANCE TO COMBUSTIBLE MATERIALS.**

6. **HVAC CONTRACTOR SHALL PROVIDE AND INSTALL HIGH TEMP SEALANT OR GASKET TO THE OUTER PERIMETER OF THE GREASE FLANGE.**




METAL-FAB INC.

IPIC-3G Factory-Built Grease Duct Installation Instructions
Specific for Burger King Restaurant Installation
(Forward Discharge Assembly)

Note: These instructions have been developed in coordination for use with kitchen exhaust hood manufactured by Gaylord Industries.

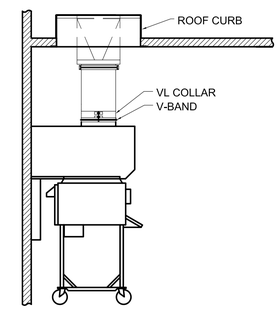
GENERAL INFORMATION

Metal-Fab Model IPIC-3G grease duct is "Listed" by Underwriters Laboratories for kitchen exhaust duct applications for continuous operations at 500° F and intermittent operation at 2000° F. IPIC-3G is further "Classified" by Underwriters Laboratories as equivalent to a 2-hr. fire rated grease duct enclosure as per UL 2221 test standard and listed for Zero inch clearance to combustibles for sizes up to and including 24-inch inside diameter.

Warning: During this installation, field application of factory-supplied insulation must be installed at joints and on Variable Length / Adjustable Length components. Do not substitute insulation with other makes or brands. Upon completion of installation, 2 layers of 1.5-inch insulation (supplied by manufacturer) must be applied directly around the inner duct as described in these instructions in order to maintain the Zero-inch clearance to combustibles rating as per the manufacturer's UL listing.

FOR QUESTIONS CALL METAL-FAB @ 1-800-835-2830 X 4165

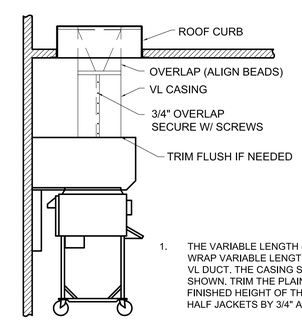
## STEP-7




1. APPLY A BEAD OF SEALANT TO V-BAND CLAMP AND ATTACH TO JOINT AS SHOWN. REF. TO STEP 3.

2. TIGHTEN SCREWS ON VL COLLAR. (FOR MORE POSITIVE SEAL, APPLY SEALANT TO VL COLLAR SLOT AND FLARED OUT END OF COLLAR PRIOR TO TIGHTENING SCREWS.)

## STEP-8




1. THE VARIABLE LENGTH (VL) CASING IS MADE UP OF (2) HALF-JACKETS. WRAP VARIABLE LENGTH (VL) CASING COMPLETELY AROUND THE INSULATED VL DUCT. THE CASING SHOULD OVERLAP THE DUCT ABOVE THE VL AS SHOWN. TRIM THE PLAIN END OF (VL) CASING SPACE IF NEEDED TO FIT THE FINISHED HEIGHT OF THE VARIABLE LENGTH (VL). OVERLAP SEAMS OF THE HALF JACKETS BY 3/4" AND SECURE USING SCREWS PROVIDED.

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| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 04.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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BURGER KING CORPORATION

TECHNICAL GROUP inc
27300 HAGGERTY RD. SUITE F2
FARMINGTON HILLS, MI 48331
P: (248) 426-8300 F: (248) 426-7004

RUI S. BOU-MATAR
REGISTERED
No. 910081
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

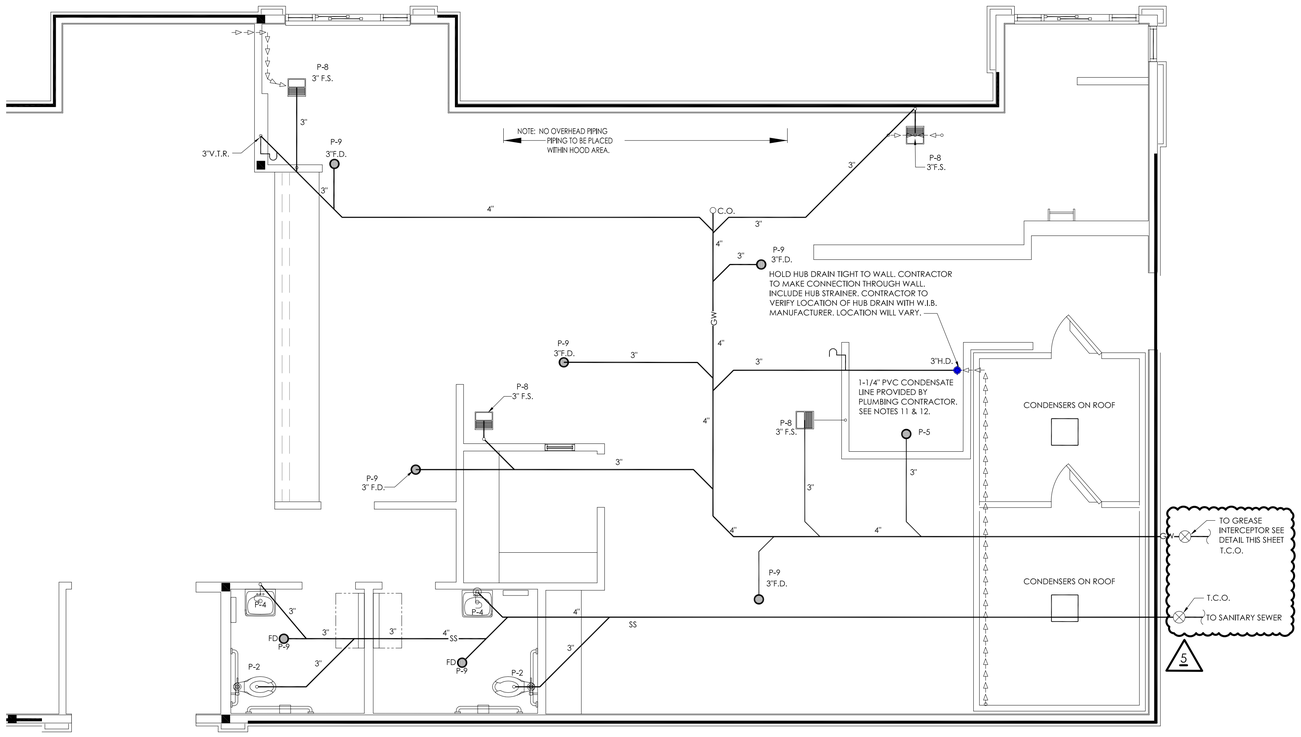
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
METAL-FAB DUCT INSTALLATION

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

SHEET
M-11

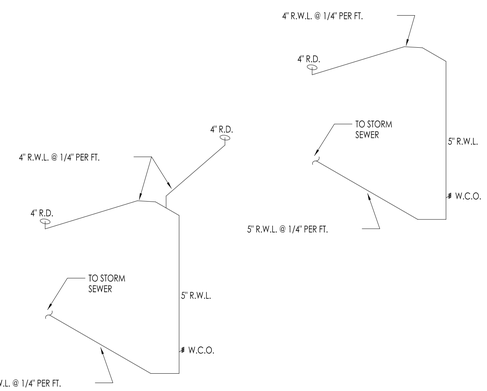



## SANITARY AND GREASY WASTE PLAN

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

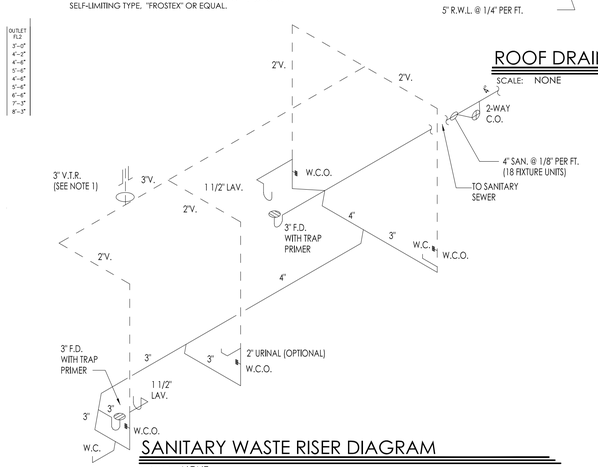
## NOTES:

1. PLUMBING CONTR. TO COORDINATE VENT STACKS WITH OUTSIDE AIR INTAKES OF A/C UNITS AND SUPPLY FANS & MAINTAIN AT LEAST 10'-0" MIN. CLEARANCE OR AS PER LOCAL CODE REQUIREMENTS. FLAT VENTS ARE NOT ALLOWED.
2. INCREASE V.T.R.'S TO SIZE REQUIRED BY LOCAL CODES AND CONDITIONS AS REQUIRED FOR FROST ENCLOSURE. FLAT VENTS ARE NOT ALLOWED.
3. RUN SYRUP LINES FROM SODA FACTORY TO DRINK DISPENSER ABOVE CEILING.
4. CAST IRON PIPE MAY BE USED UNDER SLAB IN LIEU OF PVC ONLY IF REQUIRED BY CODE.
5. PROVIDE CONDENSATE LINES FROM A/C UNITS ABOVE CEILING ACCORDING TO LOCAL CODE REQUIREMENTS.
6. RESEAL FLOOR DRAINS ACCORDING TO LOCAL REQUIREMENTS.
7. SAFEWASTE PIPING ABOVE AND ALONG FLOOR SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
8. COORDINATE SAFEWASTE LINE CONNECTIONS WITH EQUIPMENT ROUGH-IN.
9. P.V.C. (SCHEDULE 40) PIPE CAN BE USED FOR VENTS AND WASTE ONLY IF APPROVED BY LOCAL BUILDING CODES. SEE SPECS. FOR ADD'L. INFO.
10. SEE FOUNDATION PLAN FOR EXACT LOCATION OF FLOOR DRAINS AND FLOOR SINKS.
11. IF WALK-IN-BOX CONDENSATE LINE IS REQUIRED BY LOCAL CODE, PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL 1 $\frac{1}{4}$" CONDENSATE LINE. AND SEAL AROUND ALL PENETRATIONS THROUGH THE WALK-IN-BOX.
12. HEAT TAPE IS PROVIDED BY WALK-IN-BOX MANUFACTURER AND INSTALLED BY ELECTRICAL CONTRACTOR. IT IS TO BE SELF-LIMITING TYPE. "FROSTEX" OR EQUAL.



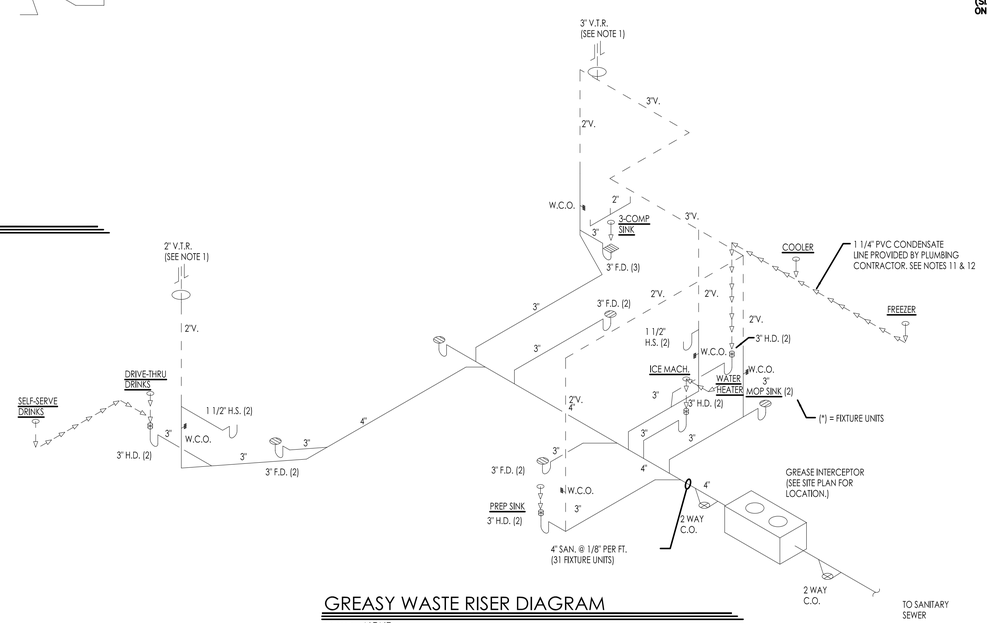

## ROOF DRAIN RISER DIAGRAM

SCALE: NONE




## SANITARY WASTE RISER DIAGRAM

SCALE: NONE




## GREASY WASTE RISER DIAGRAM

SCALE: NONE

## LEGEND

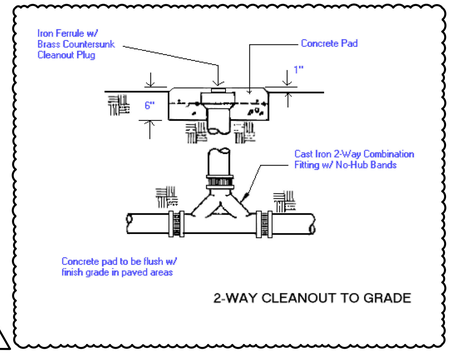
LEGEND MAY CONTAIN ITEMS NOT USED IN THIS BUILDING. CONTRACTOR TO VERIFY.

- GW — GREASY WASTE LINE
- SS — SANITARY WASTE LINE
- RAIN — RAIN WATER LINE
- SAFEWASTE PIPING
- F.C.O.- FLOOR CLEANOUT
- F.D.- FLOOR DRAIN
- F.S.- FLOOR SINK
- HUB OR FUNNEL DRAIN
- V.T.R.- VENT THRU-ROOF
- FIXTURE TRAP
- W.C.O.- WALL CLEAN OUT
- VENT PIPING

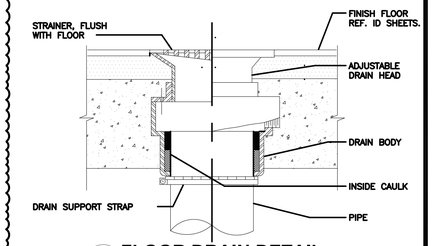
## PLUMBING FIXTURE SCHEDULE

| MARK | FIXTURE | MANUFACTURER | MODEL NUMBER | MODEL NAME | VALVE |
|---|---|---|---|---|---|
| P-1 | WATER CLOSET | * REFER TO SHEET A-3.1 FOR IMAGE SPECIFIC FIXTURES | | | |
| P-2 | WATER CLOSET - ADA | * REFER TO SHEET A-3.1 FOR IMAGE SPECIFIC FIXTURES | | | |
| P-3 | URINAL - ADA | * REFER TO SHEET A-3.1 FOR IMAGE SPECIFIC FIXTURES | | | |
| P-4 | LAVATORIES | * REFER TO SHEET A-3.1 FOR IMAGE SPECIFIC FIXTURES | | | |
| P-5 | MOP SINK | CAST IN PLACE | | | CHICAGO #897-CP -OR- AMERICAN STANDARD #8344.111 -OR- KOHLER #8907 |
| P-6 | WATER HEATER | RINNAI -OR- RINNAI | C199I<br>RUR98I | REU-KBD3237FFUDC-US<br>REU-KBP3237FFUD-US | |
| P-7 | MIXING VALVE | WATTS | LFMMVM1-UT | | |
| P-8 | FLOOR SINK | JOSAM | 49300 (49320A AT 3-COMP SINK) | | |
| | | J.R. SMITH | 3100 (3111 AT 3-COMP SINK) | | |
| | | ZURN | Z1910 (Z1900 AT 3-COMP SINK) | | |
| P-9 | FLOOR DRAIN | JOSAM | 30000-50 | | |
| | | J.R. SMITH | 2010-AP | | |
| | | ZURN | Z-415B-P | | |

NOTES:
1. COMPARABLE FIXTURES BY AMERICAN STANDARD, ELJER AND KOHLER ARE ACCEPABLE
2. TOILET SEATS TO BE CHURCH 9500SSC, KOHLER K-4671-C, OLSONITE #10C OR EQUAL.
3. IN SINGLE USE RESTROOMS ALL FIXTURE MUST BE ADA COMPLIANT.

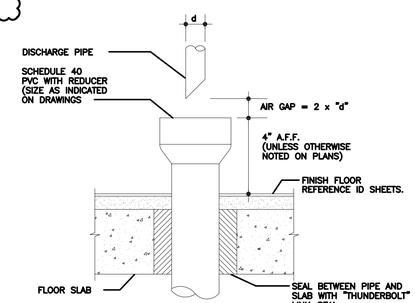



## 2-WAY CLEANOUT TO GRADE



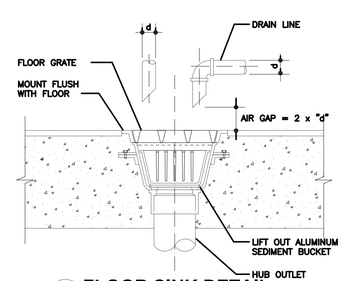

## FLOOR DRAIN DETAIL

SCALE: NONE




## HUB DRAIN DETAIL

SCALE: NONE




## FLOOR SINK DETAIL

SCALE: NONE

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Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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BURGER KING CORPORATION

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T:(248) 427-0000 F:(248) 427-7004

AZIZ S. BOU-MARONE
REGISTERED
No. 910081
STATE OF INDIANA
PROFESSIONAL ENGINEER
10.06.2022

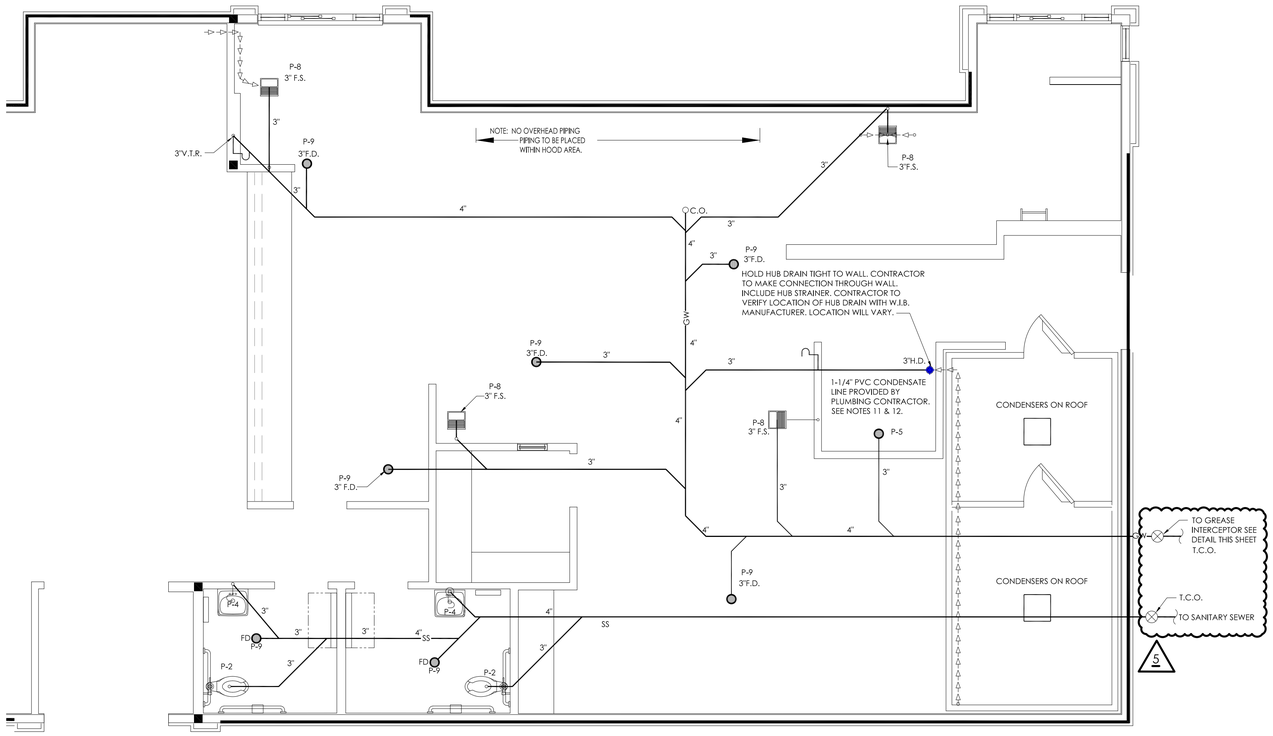
PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
SANITARY AND GREASY WASTE PLAN & RISER

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-21668

SHEET
P-1




## SANITARY AND GREASY WASTE PLAN

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

## NOTES:

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12. HEAT TAPE IS PROVIDED BY WALK-IN-BOX MANUFACTURER AND INSTALLED BY ELECTRICAL CONTRACTOR. IT IS TO BE SELF-LIMITING TYPE, "FROSTEX" OR EQUAL.

## GREASE INTERCEPTOR SIZE CALCULATION

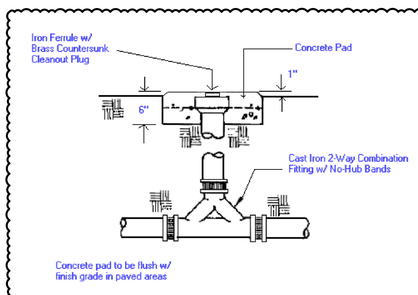
**M X W X R X S = INTERCEPTOR SIZE**

| | |
|---|---|
| **M=** MEALS SERVED AT PEAK HOUR | **M=** 70 |
| **W=** WASTE FLOW RATE | **W=** 5 |
| **R=** RETENTION TIME | **R=** 1.5 |
| **S=** STORAGE FACTOR | **S=** 3 |

**70 X 5 X 1.5 X 3 = 1,575**

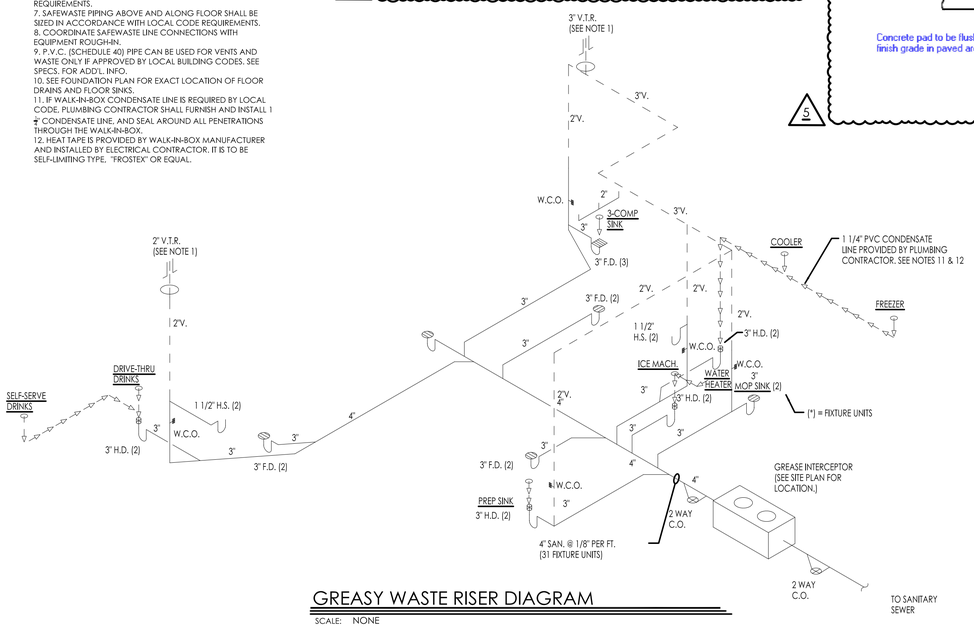
**MINIMUM INTERCEPTOR SIZE = 1,575**

5




2-WAY CLEANOUT TO GRADE

5




## GREASY WASTE RISER DIAGRAM

SCALE: NONE

## LEGEND

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| | | J.R. SMITH | 3100 (3111 AT 3-COMP SINK) | | |
| | | ZURN | Z1910 (Z1900 AT 3-COMP SINK) | | |
| P-9 | FLOOR DRAIN | JOSAM | 30000-50 | | |
| | | J.R. SMITH | 2010-AP | | |
| | | ZURN | Z-415B-P | | |

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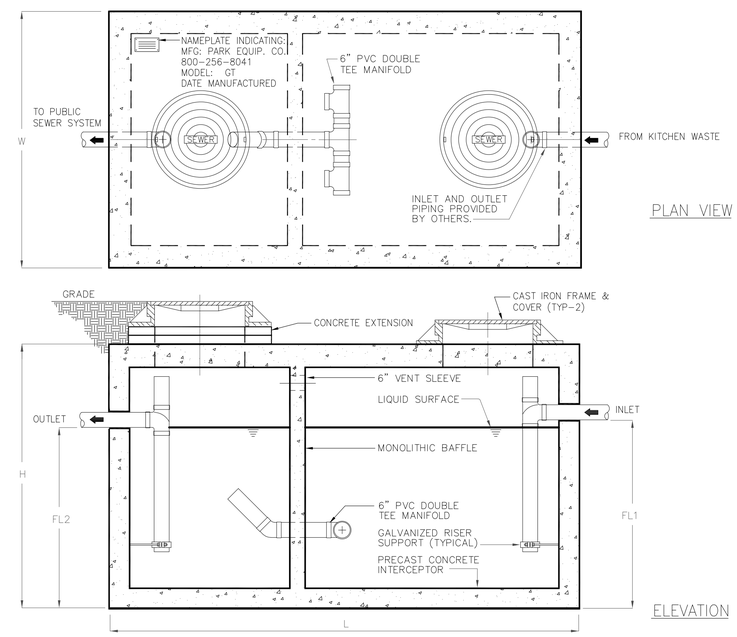


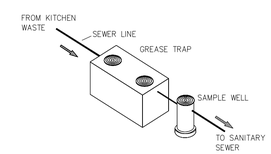


Typical applications include commercial and industrial food service kitchens where excessive grease may interfere with the proper drainage of the sewer system. The grease interceptor is generally buried below grade for gravity flow sewer systems. A sample well is utilized on the outlet side for sampling by the local water authority.

### Specifications

CONCRETE : Class 1 concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor, first stage of wall and baffle with sectional riser to required depth. (Monolithic baffle required, slide-in type is not acceptable)

REINFORCEMENT: Grade 60 reinforced with steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30. Manhole shall be nominal 24 inch diameter and be traffic duty.

5

GREASE INTERCEPTOR SCHEDULE

| MODEL NO. | CAPACITY USGal | GREASE CAP. (LBS) | EMPTY WT (LBS) | LENGTH L | WIDTH W | HEIGHT H | INLET FL1 | OUTLET FL2 |
|---|---|---|---|---|---|---|---|---|
| GT-500 | 500 | 1,200 | 7,000 | 7'-10" | 4'-4" | 4'-6" | 3'-3" | 3'-0" |
| GT-750 | 750 | 1,700 | 10,000 | 7'-10" | 4'-4" | 6'-0" | 4'-5" | 4'-2" |
| GT-1000 | 1,000 | 2,300 | 13,200 | 8'-8" | 5'-0" | 6'-0" | 4'-9" | 4'-6" |
| GT-1575 | 1,575 | 3,500 | 20,000 | 9'-2" | 5'-8" | 7'-0" | 5'-9" | 5'-6" |
| GT-2000 | 2,000 | 4,600 | 24,000 | 13'-0" | 7'-0" | 6'-0" | 4'-9" | 4'-6" |
| GT-2500 | 2,500 | 5,700 | 27,000 | 13'-0" | 7'-0" | 7'-0" | 5'-9" | 5'-6" |
| GT-3000 | 3,000 | 6,900 | 30,000 | 13'-0" | 7'-0" | 8'-0" | 6'-9" | 6'-6" |
| GT-3500 | 3,500 | 8,000 | 33,000 | 13'-0" | 7'-0" | 8'-6" | 7'-6" | 7'-3" |
| GT-4000 | 4,000 | 9,240 | 36,000 | 13'-0" | 7'-0" | 9'-6" | 8'-6" | 8'-3" |

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

### Engineering Data

The grease interceptor is structurally & hydraulically engineered to conform to regional plumbing codes recommended in most cities. Consult with local authorities for specific application requirements.

Shop drawings shall include complete structural & bouyancy calculations certified by a licensed professional engineer.

Consult with Park Equipment Company for exact excavation dimensions & shipping information.

EPA

MEMBER

3

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
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Drawn By: CP

Checked: SB

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BURGER KING CORPORATION

TGI TECHNICAL GROUP, Inc.
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FARMINGTON HILLS, MI 48331
P:(248) 426-8800 F:(248) 426-7004

AZIZ S. BOU-MARON REGISTERED No. 910381 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
SANITARY AND GREASY WASTE PLAN & RISER

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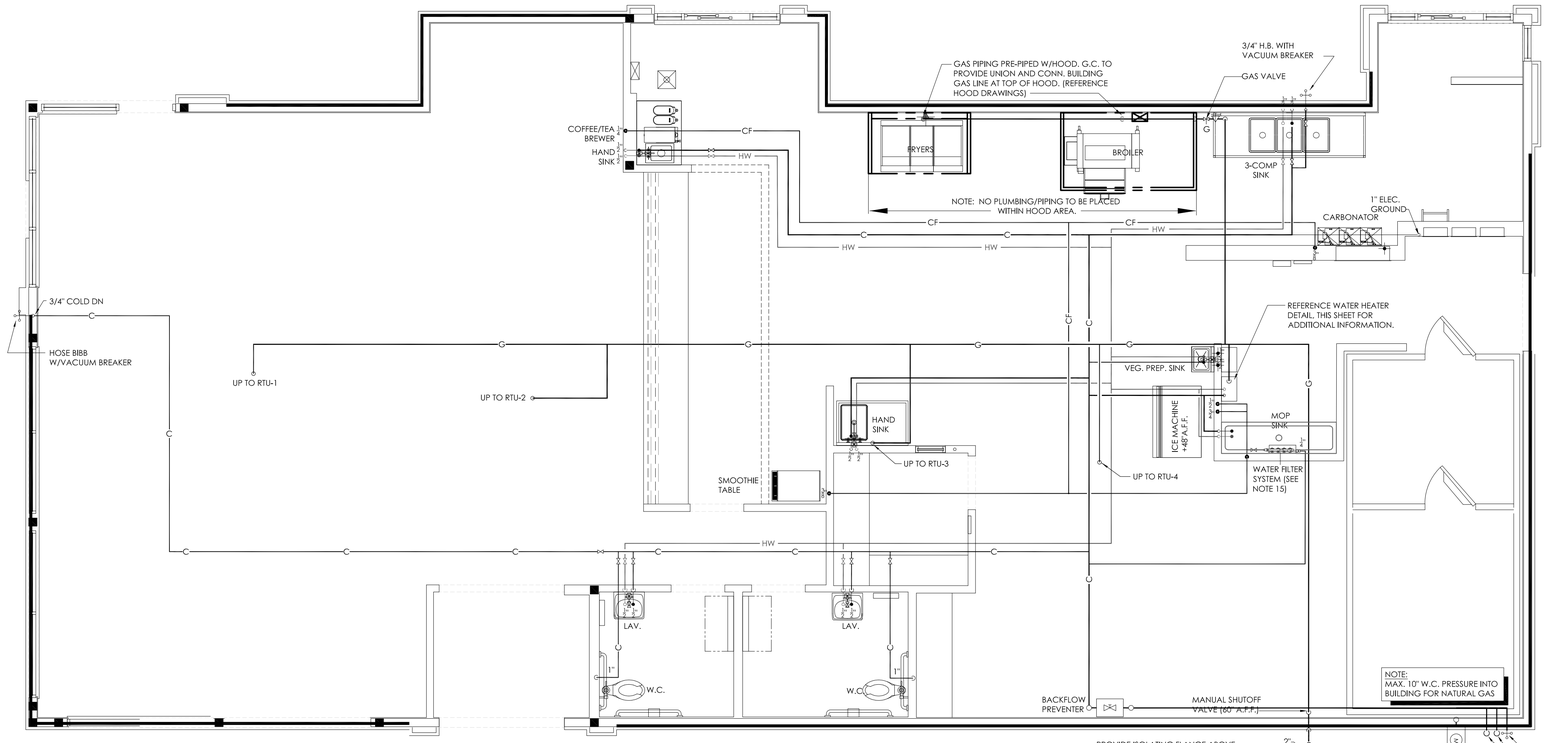
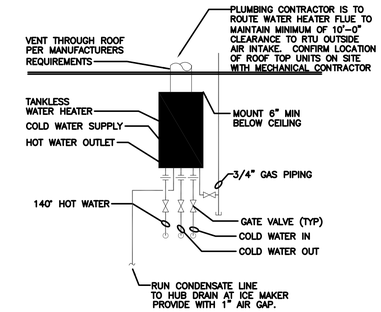
JOB # TG-21668

SHEET P-1.1




## WATER AND GAS PLAN

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



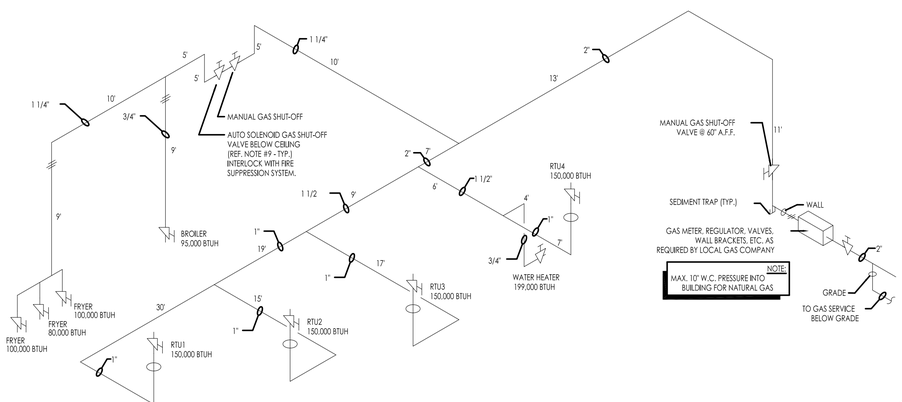

## WATER HEATER DETAIL

SCALE: NONE

NOTE: CONFIGURATION MAY VARY BASED ON UNIT SELECTED.

## LEGEND

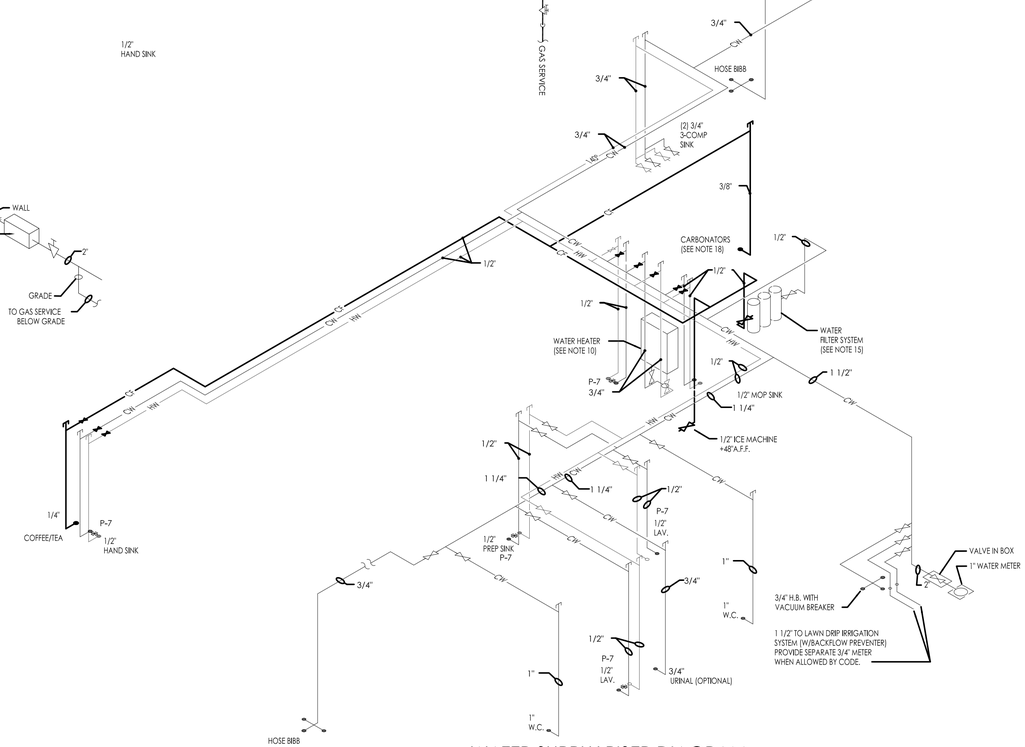
| | |
|---|---|
| LICF | LIME INHIBITED COLD WATER FILTER SYSTEM |
| C | COLD WATER |
| CF | COLD WATER FILTER SYSTEM |
| 120° | HOT WATER (120°) |
| 140° | HOT WATER (140°) |
| | UNDERGROUND PIPING |
| G | GAS PIPING |
| | GATE VALVE |
| G G | GAS SHUT-OFF VALVE |
| | CHECK VALVE |
| | HOSE BIBB W/ VACUUM BREAKER |
| G G | MECHANICAL GAS SHUT-OFF VALVE |
| | GLOBE VALVE |




## GAS SUPPLY RISER DIAGRAM

SCALE: NONE

TOTAL LOAD = 1,169,000 BTUH
TOTAL LENGTH TO FURTHEST APPLIANCE = 90'




## WATER SUPPLY RISER DIAGRAM

SCALE: NONE

## INSULATION SCHEDULE

| ZONE | PIPE SIZE UNDER 1" DIA. | PIPE SIZE OVER 1" DIA. |
|---|---|---|
| A&B | 4" THICK | 3" THICK |
| C | 3" THICK | 2" THICK |
| D&E | 3/4" THICK | 1" THICK |

## NOTES:

1. DO NOT SCALE DRAWINGS
2. GENERAL CONTRACTOR AND PLUMBING CONTRACTOR SHALL VERIFY GAS REQUIREMENTS OF THIS PROJECT BEFORE BIDDING AND PROCEEDING WITH WORK. SEE SHEET M-1 FOR GAS REQUIREMENTS OF A/C UNITS.
3. ALL HOT AND COLD WATER PIPING LOCATED ABOVE CEILING AREAS BUT BELOW ROOF INSULATION SHALL BE INSULATED WITH 3/4" FIBERGLASS LOW PRESSURE TYPE WITH DUAL TEMPERATURE JACKET. ALL HOT AND COLD WATER PIPING LOCATED OUTSIDE OF BUILDING INSULATION ENVELOPE SHALL BE INSULATED TO THICKNESS SPECIFIED IN INSULATION SCHEDULE SHOWN ON THIS SHEET. ALL UNDERGROUND PIPES LOCATED INSIDE BUILDING TO BE ENCASED IN FLEXIBLE POLYETHYLENE.
4. LOCATE COLD WATER PIPES IN FURRED OUT SPACES AT TOILET ROOMS (ZONES A AND B ONLY).
5. PROVIDE FROST PROOF HOSE BIBBS (ZONES A, B, C AND D)
6. PROVIDE SEPARATE SHUT-OFF VALVES FOR ALL EQUIPMENT AND PLUMBING FIXTURES REQUIRING WATER CONNECTIONS.
7. PROVIDE COUPLINGS TO ALL EQUIPMENT AS REQUIRED.
8. PLUMBING CONTRACTOR TO FURNISH AND INSTALL U.L. LISTED MECHANICAL GAS SHUT-OFF VALVES FOR FIRE PROTECTION SYSTEMS. VALVES CAN BE OBTAINED FROM THE FIRE PROTECTION SYSTEM SUPPLIER.
9. PROVIDE CATEGORY III STAINLESS STEEL VENT AS SPECIFIED BY MANUFACTURER. LAST PORTION OF PIPE SHALL EXTEND A MINIMUM OF 36" ABOVE ROOF SURFACE.
10. PROVIDE BACKFLOW PREVENTER ON COFFEE MAKERS, ICE MACHINE AND OTHER WATER LINES AS REQUIRED BY LOCAL CODES.
11. PROVIDE WOOD BLOCKING AS REQUIRED FOR FIXTURES AND PIPING. (REFERENCE SHEET A-1)
12. CONTRACTOR TO PROVIDE 3/4" DIAMETER HOT AND COLD WATER LINES AT TRASH ENCLOSURE WITH MIXING VALVE AT CAN WASH INSIDE OF BUILDING.
13. INSTANTANEOUS GAS WATER HEATER AS SPECIFIED ON SHEET P-1 IS NOT RECOMMENDED FOR USE IN EXTREMELY COLD CLIMATES (ZONE A) DUE TO ITS INABILITY TO PRODUCE LARGE QUANTITIES OF HOT WATER OR MAINTAIN WATER TEMPERATURES IN EXCESS OF 130°F.
14. FILTERED WATER AT THE VEGETABLE PREP SINK IS OPTIONAL. UNFILTERED COLD WATER MAY BE USED IN ITS PLACE.
15. APPROVED WATER FILTER SYSTEMS:
    - 15.1. EVERPURE MODEL #CB20312 OR SELECTO SCIENTIFIC MODE #MF620CC. NOTE: PROVIDE LIME INHIBITOR AS MAY BE REQUIRED.
    - 15.2. PLUMBING CONTRACTOR TO PROVIDE AND INSTALL WATER FILTER FOR FOUNTAIN DRINKS AT THE BAG-IN-BOX WALL. VERIFY FILTER REQUIREMENTS WITH COKE VENDER.
16. CUTTING AND NOTCHING OF 2x4 BEARING WALL NOT TO EXCEED 7/8". BORED HOLES IN 2x4 BEARING WALLS NOT TO EXCEED 2-1/8".
17. PE PIPING TO BE USED UNLESS NOT ALLOWED BY LOCAL CODES.
18. PLUMBING CONTRACTOR TO PROVIDE WATER FILTER FOR DRINK SYSTEM. COORDINATE REQUIREMENTS WITH THE EQUIPMENT SUPPLIER.
19. PROVIDE TEMPERATURE VALVES AT ALL LAVS, HAND SINKS, AND PREP SINKS.

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INQUOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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10.06.2022

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SHEET TITLE
WATER & GAS PLAN AND RISERS

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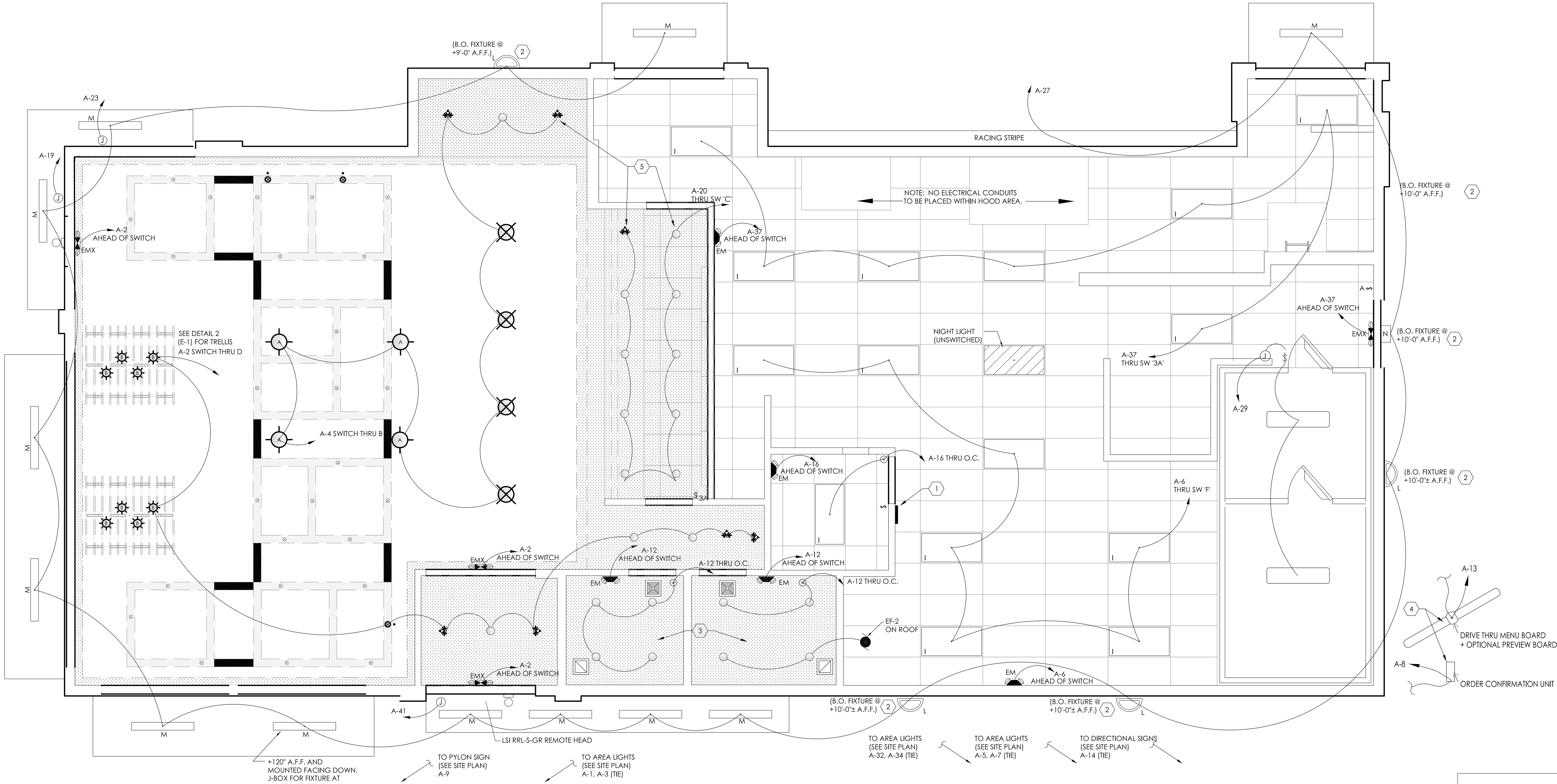
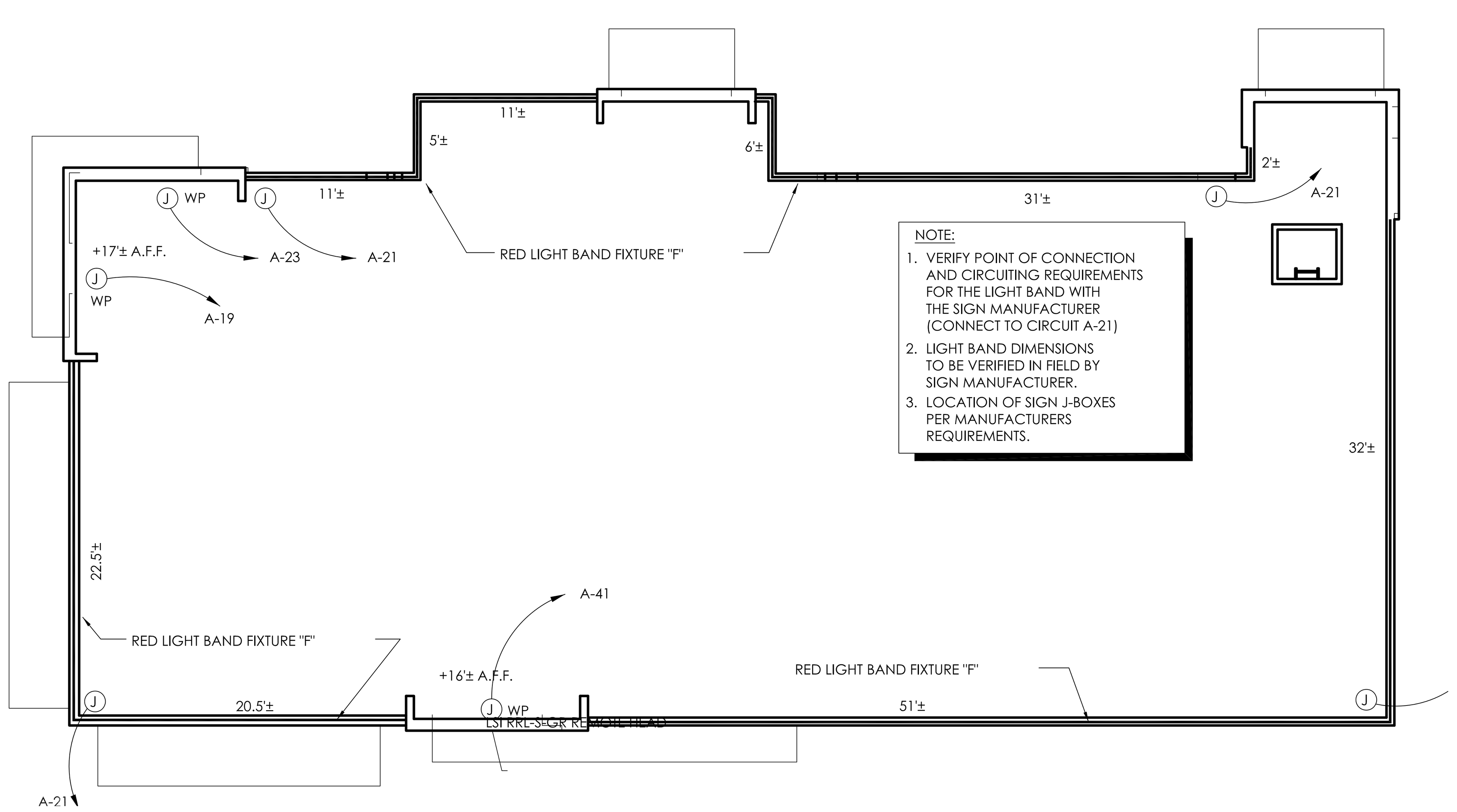
JOB # TG-21668

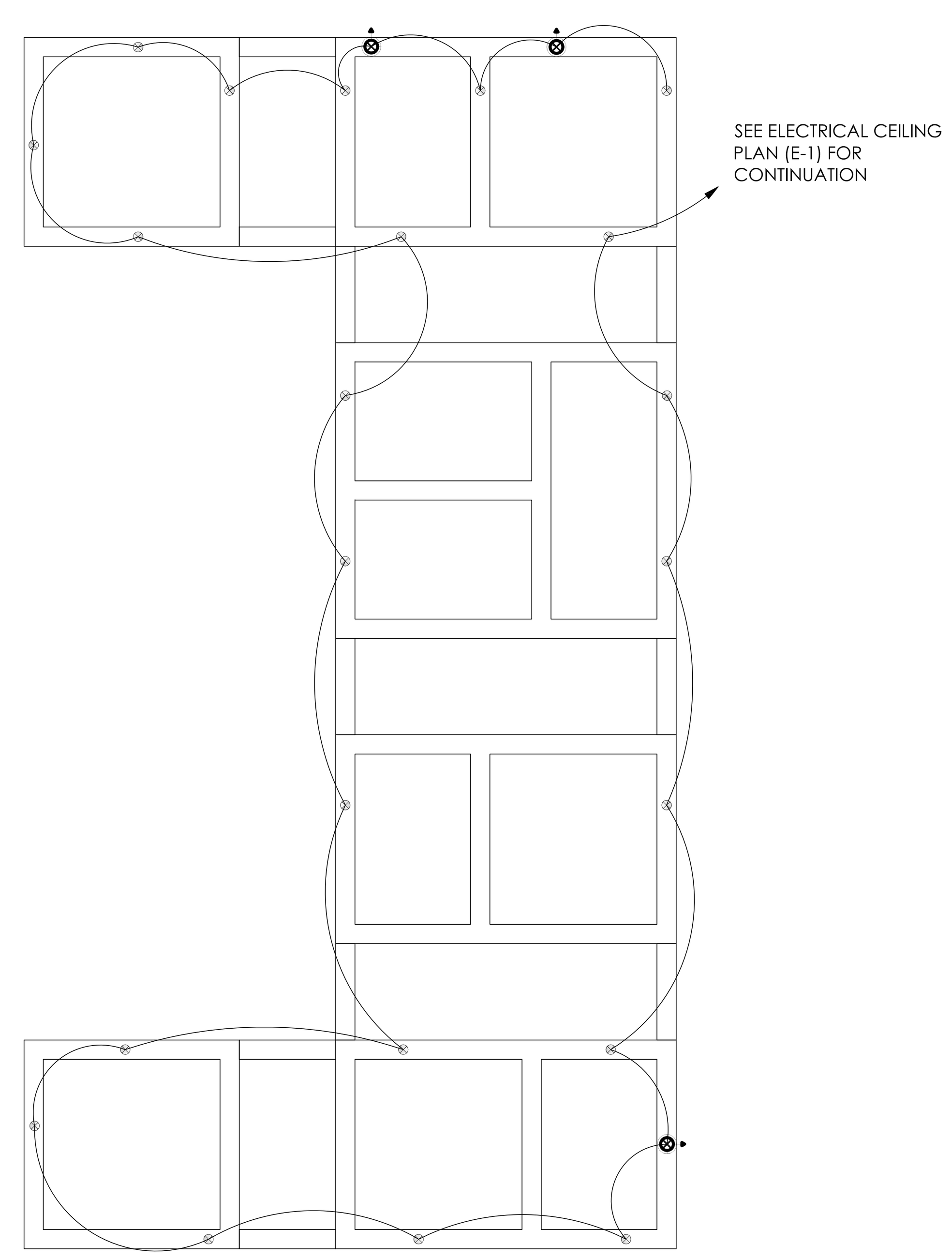
SHEET P-2




1 ELECTRICAL LIGHTING PLAN
SCALE: 1/4" - 1'-0"



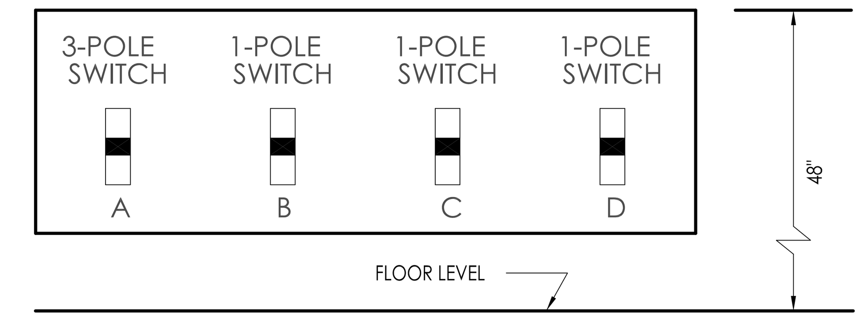

2 PARAPET LIGHT FIXTURE PLAN
SCALE: 1/8" - 1'-0"




A TRELLIS POWER PLAN
SCALE: 1/4"=1'-0"

## SYMBOL LEGEND

| SYMBOL | DESCRIPTION |
|---|---|
| | SWITCHES |
| $ | TOGGLE SWITCH - SINGLE POLE |
| $3 | TOGGLE SWITCH - THREE POLE |
| ⊙ | OCCUPANCY SENSOR |




1 SWITCH BANK DETAIL
SCALE: NONE

NOTE: NUMBER OF SWITCHES REQUIRED MAY VARY BASED ON LIGHTING CONFIGURATION - VERIFY REQUIREMENTS.

## GENERAL NOTES:

A. REFER TO SHEET E-1.1 FOR LIGHT FIXTURE SPECIFICATIONS
B. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION AND MOUNTING HEIGHTS OF LIGHT FIXTURES. COORDINATE FIXTURE LOCATIONS WITH DECOR DRAWINGS.
C. ALL WORK AND MATERIALS SHALL BE BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
D. MC CABLE ONLY PERMITTED FOR LIGHT WHIPS. ALL OTHER TO BE E.M.T CONDUIT IN CEILING AND WALLS - RIGID CONDUIT UNDER SLAB.
E. PROVIDE JUNCTION BOXES AT LIGHT FIXTURES PER MANUFACTURERS REQUIREMENTS. (TYPICAL FOR ALL LIGHTING FIXTURES)
F. WHERE TRUSSES ARE EXPOSED, RUN ALL ELECTRICAL CONDUITS ABOVE THE BOTTOM CHORD OF THE TRUSS.

## KEYED NOTES:

1. SWITCH BANK: REFERENCE DETAIL #1, THIS SHEET.
2. ALL EXTERIOR LIGHTS THROUGH PHOTO CELL. ELECTRICAL CONTRACTOR TO PROVIDE "PARAGON" PHOTOCELL CW 201-00 MOUNTED ON ROOF FACING NORTH. MAKE ADJUSTMENTS FOR ANY AMBIENT LIGHT.
3. PROVIDE HARDWARE FOR INSTALLATION IN GYPSUM BOARD CEILINGS.
4. ELECTRICAL CONTRACTOR TO COORDINATE WITH THE DRIVE THROUGH SIGN SUPPLIER FOR EXACT ELECTRICAL REQUIREMENTS.
5. ALL LIGHT FIXTURES OVER FOOD SERVICE AREA TO BE PROVIDED WITH LENS.
6. INSTALL NEW MENUBOARD. E.C. TO PROVIDE ELEC. AS NEEDED.

## LIGHTING FIXTURE NOTES

1. CONTRACTOR SHALL CHECK AND VERIFY FIXTURE QUANTITY AND MAKE PROPE ADJUSTMENTS FOR ANY CHANGES IN PLAN SHOWN DUE TO ADDITIONAL REQUIREMENTS SUCH AS VESTIBULES, LOCAL CODES, ETC.
2. SEE SITE LIGHTING DRAWING FOR AREA LIGHTING POLES SPECIFICATIONS AND DETAILS

**BURGER KING 20/20 GARDEN GRILL INTERIOR**
**INTERIOR LIGHT FIXTURE SCHEDULE**

06.01.21

STANDARD TRELLIS (6"x 6")

| TYPE | | VENDOR | CATALOG No. | New Part Number | WATTAGE | COLOR TEMP | REMARKS |
|---|---|---|---|---|---|---|---|
| A | | NAUTICAL | BK304 & SP30S-18-60D-927-03 LED EDISON STYLE 10 WATT | | 10 | 2700 | SHAKER PENDANT LAMP |
| A1 | | NAUTICAL | BK-GG-A2 CUSTOM PENDANT LIGHT RED LED CLEAR ANTIQUE STYLE 6 WATT | | 10 | 2700K | RED PENDANT LIGHT |
| A2 | | NAUTICAL | BK-LT-11 | | | | GREEN CAST GUARD WAREHOUSE LIGHT |
| B | | NAUTICAL | BK305 & LED 8W EDISON INCANDESCENT LED CLEAR ANTIQUE STYLE 6 WATT | | 6 | 2700K | BRONZE CAGE PENDANT LIGHT |
| B1 | | NAUTICAL | BK305 & LED 8W EDISON INCANDESCENT LED CLEAR ANTIQUE STYLE 6 WATT | | 6 | 2700K | BRONZE CAGE WALL SCONCE LIGHT |
| C6w | | CREE | LR6-10L-30K-120V-A-DR-RC6-12W-GU24 | LR6X-10L-30K/ RC6-UNI | 12.5 | 3000 | 6" DIAMETER, WHITE, RECESSED DOWN LIG |
| | | SECURITY | SLSDBXQL-LB6LEDA30KWH | | 14 | 3000 | |
| | | LSI | LCD6 13 LED 30 48 UE TR6RL HAZ WH | | 13 | 3000 | |
| | | JUNO | SP34505-930-6-WWH | | 11 | 3000 | |
| | | VAOPTO | VO-DL-6WW20-85E26-110-WHITE | | 18 | 3500 | |
| | | ENERGYWISE | EWRR61130W-L7 | | 11 | 3000 | |
| D6w | | CREE | LE6C-GU24W-RR6-GU24 | CR6T-G-825L-27K-1227/RR6-UNI | 12 | 3000 | 6" DIAMETER, WHITE, RECESSED DOWN LIGHT & WALL WASHER |
| | | LSI | PDL6KADJ-LED-07-30-120-PDL6KADJHSGNC | | 14 | 3000 | |
| | | VAOPTO | VO-DL-6WW13-90K90A | | 13 | 3000 | |
| | | JUNO | SP34506-27K-6WWH | | 11 | 3000 | |
| | | ENERGYWISE | EWRRA61030W | | 10 | 3000 | |
| E | | JUNO | R600L3KNBZ | | 10 | 2700 | TRACK LIGHT |
| F | | CREE | SCG-CM-BL-GU24-CR6-800L-30K-120V-GU24CTGA | SC6CMBLGU24/CR6T-825L-30K/CR6T-TRMBKBB-1 | | | PENDANT LIGHT |
| | | SECURITY | LBC6CM-LB6LEDA1030KBL | | 12 | 3000 | |
| | | ENERGYWISE | EWLBC6BLK | | | 3000 | |
| G | | JUNO | SP34378B-9-F1-SSN | | 10 | 3000 | 2" DIAMETER DOWN LIGHT, SATIN NICKEL F |
| | | ZANIBONI | D2LUNA20930A3CSNP0BK0P | | 9 | 3000 | |
| G1 | | JUNO | SP34378A-930-F1-SN | | 10 | 3000 | 2" DIAMETER WALL WASHER, SATIN NICKEL |
| | | ZANIBONI | D2LUN2O0930A3CSNP0BK0D | | 9 | 3000 | |
| I | | CREE | CL-E-TFA04A-24R-40N | C-TR-FP24-50L-340K-WH | 42 | 4000 | 1. TO BE USED IN KITCHEN |
| | | SECURITY | LJT24-40-MLG-FSA12-EU-C388 | | 45 | 4000 | 2. 2x4 RECESSED |
| | | LSI | SFP24 LED 50 UE DIM 40 | | 50 | 4000 | |
| | | VAOPTO | VO-PL-2NW4-60 | | 60 | 4000 | |
| | | ENERGYWISE | EWMLFP24EP4841 | | 48 | 4100 | |
| J | | CREE | CL-E-TR14L2404U | C-TR-FP14-37L-40K-WH | 42 | 3500 | 1. FOR REMODELS ONLY |
| | | SECURITY | LJT14-35LWG-FSA12-EDU-C388 | | 27 | 3500 | 2. TO BE USED IN RESTROOMS |
| | | LSI | SFP14 LED 40 UE DIM 35 FK14 | | 40 | 3500 | 3. 1x4 RECESSED |
| | | VAOPTO | VO-PL-1XWW4-50 | | 50 | 3000 | |
| | | ENERGYWISE | EWMLFP14EP3535 | | 35 | 3500 | |
| PG | | CREE | CL-E-TFA03A-22R-40N | C-TR-FP22-31L-40K-WH | 32 | 3500 | 1. TO BE USED IN PLAYGROUND |
| | | SECURITY | LJT22-35MLG-FSA12 EU | | 35 | 3500 | 2. 2x2 RECESSED |
| | | LSI | SFP22 LED 30 UE DIM 35 FK22 | | 30 | 3500 | |
| | | VAOPTO | VO-PL-2XWW2-36 | | 36 | 3000 | |
| | | ENERGYWISE | EWMLFP22EP3535 | | 36 | 3500 | |
| EM | | CREE | EM22RWH | C-EE-A-EMG-2L-BB-REM-WH | 11 | | EMERGENCY LIGHT |
| | | SECURITY | CU2 | | 1 | 3000 | |
| | | LSI | LTEMWH | | (2) 1 LED | | |
| | | VAOPTO | VO-EM | | 2 | 5000 | |
| | | ENERGYWISE | EWCU2 | | 1 | 3000 | |
| EMX | | CREE | EXDMBRWH | C-EE-A-EX-2LDF-RED-BB | 11 | | EXIT / EMERGENCY LIGHT |
| | | SECURITY | CCRRC | | 4 | | |
| | | LSI | LPRXRUWBWHLD11R | | (2) 1 LED | | |
| | | VAOPTO | VO-EMX-R1 | | 2 | 5000 | |
| | | ENERGYWISE | EWCCR | | 4 | 3000 | |
| T | | TOOSHLIGHTS | MASTER FORMAT 26 55 10 Lights: Full color, RGB LEDs Power: Power Over Ethernet (POE), Low Voltage DC. Use CAT 5 or CAT 6, shielded cable. | | | | RESTROOM WALL MOUNTED OCCUPANCY INDICATOR LIGHT |
| WIB | | CREE | WS4-50L-57K-10V-FD | WS4C-60L-LFA-50K-8-UL | 55 | 5300 | TO BE USED IN WALK IN BOX ONLY |
| | | SECURITY | LXEM4-50ML-RFA-EU | | 53 | 5000 | |
| | | LSI | EG34SLEDHOCWUE | | 52 | 5300 | |
| | | VAOPTO | VO-TF-14W | | 32 | 5000 | |
| | | ENERGYWISE | EWMLED-LSV2XT8USE4806 | | 36 | | |
| O | | CREE | LS4-25L-35K-10V | | 23 | 3500 | PLAYGROUND PENDANT LIGHT |
| O1 | | CREE | LS8-80L-35K-10V | | 88 | 3500 | PLAYGROUND PENDANT LIGHT |

**CONTACT INFORMATION**

| | | | |
|---|---|---|---|
| CREE<br>ELVIR SULJIC<br>262-884-3332<br>esuljic@creelighting.com | HERMITAGE "MASTER CONSOLIDATOR"<br>WYATT CULVER<br>615-843-3379<br>wyatt@hlg.co | ENERGYWISE<br>JENNIFER WADDICK<br>877-225-1336<br>jennifer@energywisemail.com | JUNO / ACUITY BRANDS<br>BRETT D KINZLER<br>o 847-813-8350 m 847-312-1578<br>brett.kinzler@acuitybrands.com |
| SECURITY LIGHTING<br>WHITNEY WATSON<br>630-550-9320 | NAUTICAL FURNISHINGS<br>MICHAEL HOGLUND<br>954-771-1100 | VaOpto<br>LINDA XU<br>702-517-5789 | ZANIBONI LIGHTING<br>JENNIFER MORRIS<br>727-213-0410 |

## LIGHTING CONTROLS

A. PROVIDE MANUAL SWITCH IN ALL ROOMS.
B. PROVIDE OCCUPANCY SENSORS IN RESTROOMS AND OFFICE.
C. PROVIDE ASTRONOMICAL TIME CLOCK WITH A MAX 3 HR OVERRIDE FOR ALL INTERIOR LIGHTS.
D. PROVIDE TIMECLOCK AND PHOTOCELL FOR ALL EXTERIOR LIGHTING AND SIGNAGE.

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
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Drawn By: CP
Checked: SB
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10.06.2022

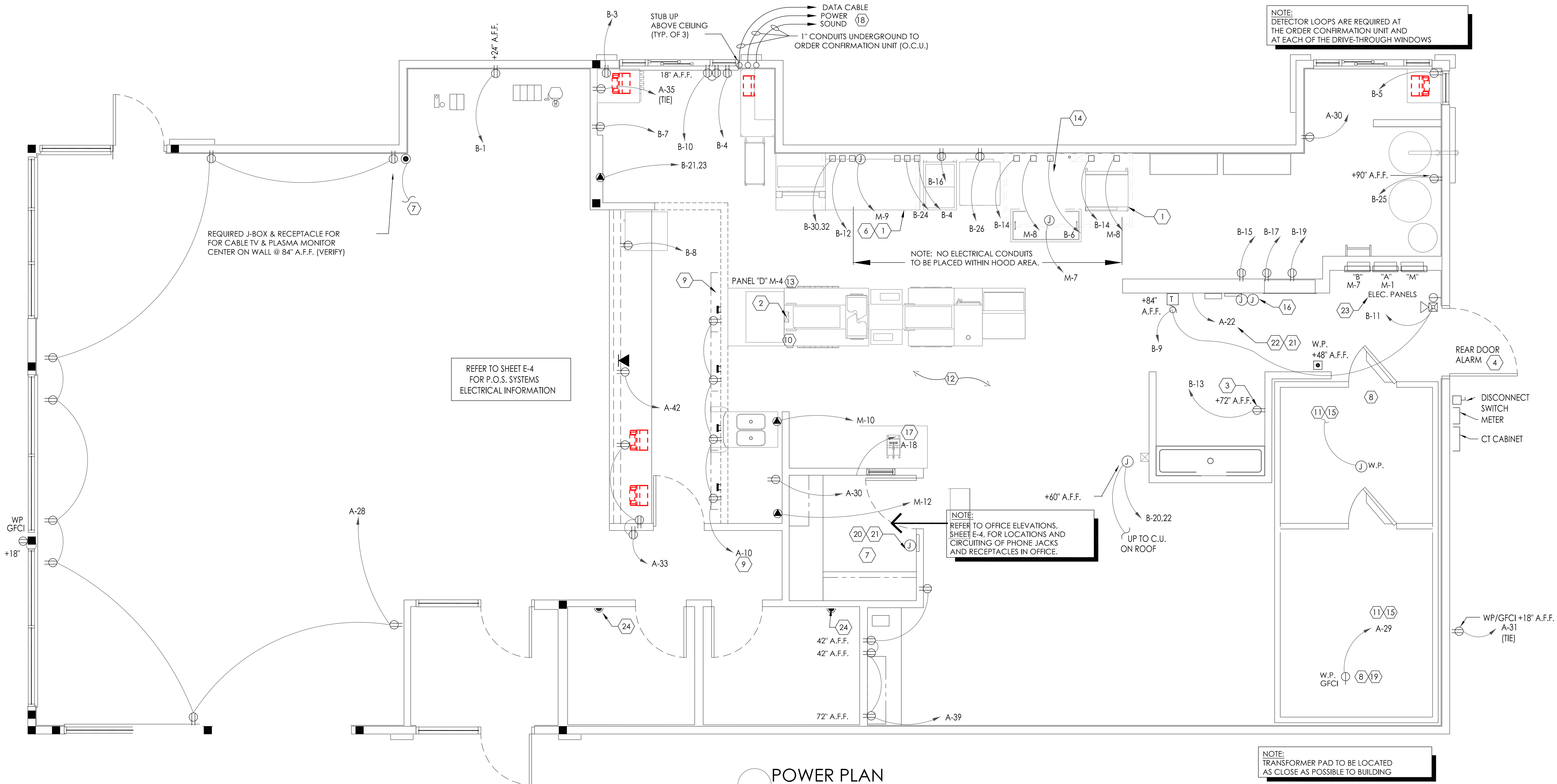
PROJECT
BURGER KING
1440 NAPPANEE ST,
ELKHART, IN 46514

SHEET TITLE
LIGHTING PLAN

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET E-1




## POWER PLAN

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

### ELECTRICAL CONTRACTOR (EC) - GENERAL NOTES:

A. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES AND STANDARDS.
B. ALL DEVICE BOXES SHALL BE INSTALLED FLUSH AND CONDUITS RUN CONCEALED IN FINISHED AREAS EXCEPT AS SPECIFICALLY SHOWN/NOTED OTHERWISE.
C. INSTALL POWER AND CONTROL WIRING AND REQUIRED CONTROL COMPONENTS FOR AIR CONDITIONING SYSTEMS AS SHOWN/NOTED ON THE DRAWINGS AND PER OTHER APPLICABLE DRAWINGS/INSTRUCTIONS. REFERENCE MECHANICAL DRAWINGS.
D. WIRE SIZE SHALL BE #12 (MINIMUM) UNLESS OTHERWISE NOTED. WIRE SIZES SMALLER THAN #6 AWG SHALL BE THHN/THWN. #6 AWG WIRE AND LARGER SHALL BE THW, UNLESS NOTED OTHERWISE.
E. WIRE (CONDUCTOR) COLORS SHALL BE AS PER APPLICABLE CODES.
F. ALL CONDUCTORS SHALL BE COPPER.
G. ALL CONDUCTORS SHALL BE RUN IN CONDUIT, EXCEPT LOW VOLTAGE CONTROL AND COMMUNICATIONS CABLES.
H. ALL MATERIALS SHALL BE UL APPROVED.
I. ALL BRANCH CIRCUITS, EXCEPT INTERIOR LIGHTING, EXTERIOR BUILDING SIGNS, PARAPET LIGHTING AND SOFFIT LIGHTING TO HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC 250-122.
J. PVC (SCHEDULE 40) PERMITTED BELOW SLAB AND BELOW GRADE ONLY.
K. IT IS INTENDED THAT AN EQUIPMENT GROUND CONDUCTOR (GREEN) SHALL BE RUN IN POWER CIRCUIT CONDUITS WHETHER OR NOT THE CONDUIT IS PVC.
L. ALL EMPTY CONDUITS TO BE PROVIDED WITH NYLON PULL STRING.
M. NEW TYPEWRITTEN PANEL DIRECTORY SHALL BE FURNISHED AFTER JOB IS COMPLETED REFLECTING ALL AS BUILT CONDITIONS.
N. ALL BRANCH CIRCUITS SHALL BE PROPERLY PHASE BALANCED.
O. ALL DATA EQUIPMENT TO BE FED BY A DEDICATED CIRCUIT WHICH CONSISTS OF A POWER CIRCUIT THAT FEEDS THIS TYPE OF EQUIPMENT ONLY WITH A SEPARATE GREEN GROUNDING CONDUCTOR CARRIED ALL THE WAY BACK TO THE PANEL TO BE CONNECTED TO THE GROUNDING SYSTEM.
P. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE UNLESS OTHERWISE NOTED.
Q. EC SHALL VERIFY INTERIOR DECOR THEME TO BE USED AND COORDINATE WITH SAID THEME.
R. EC SHALL INSTALL AND CONNECT WIRING TO ALL SIGNS.
S. EC TO COORDINATED ROUGHING-IN TO ALL EQUIPMENT WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLING CONDUITS.
T. ALL CONDUIT RUNS TO KITCHEN EQUIPMENT SHALL BE RUN ABOVE CEILING.
U. MAINTAIN 12" CLEARANCE BETWEEN P.O.S. COMMUNICATION CONDUITS AND LIGHTING FIXTURES AS WELL AS POWER CONDUITS..
V. CUTTING AND NOTCHING OF 2x4 BEARING WALL FRAMING NOT TO EXCEED 7/8". BORING HOLES IN 2x4 BEARING WALL FRAMING NOT TO EXCEED 2 1/8".
W. ALL B.O.H. & SERVICE AREA OUTLETS TO BE G.F.C.I.
X. ALL P.O.S. OUTLETS TO BE DEDICATED CIRCUITS (ORANGE).

### ELECTRICAL CONTRACTOR (EC) - H.V.A.C.:

A. THE EC SHALL FURNISH AND INSTALL PITCH PANS FOR POWER AND CONTROL WIRING AND TO MAINTAIN 12" MINIMUM CLEARANCE FROM BACK PANEL OF AIR CONDITIONING UNITS.
B. EC SHALL INSTALL ALL LOW-VOLTAGE CONTROL WIRING FOR ALL AIR CONDITIONING UNITS AND FANS. COORDINATE AIR CONDITIONING AND ELECTRICAL PLANS.
C. EC SHALL FURNISH AND INSTALL DISCONNECTS FOR AIR CONDITIONING UNITS.
D. EC SHALL USE A MINIMUM OF 4'-6" SEALTITE FLEXIBLE CONDUIT WHEN WIRING KITCHEN HOOD EXHAUST FANS ON ROOF SO THAT FANS MY BE REMOVED FROM CURBS AND PLACED ON ROOF FOR CLEANING EXHAUST DUCTWORK.
E. IF REQUIRED BY LOCAL CODE, EC SHALL PROVIDE COMPONENTS - AUDIBLE AND VISUAL ANNUNCIATORS AND SINGLE-GANG RECEPTACLES TEST STATIONS WITH GREEN AND RED LIGHT INDICATORS. EACH KITCHEN UNIT WILL BE EQUIPPED AND THE FIRE AND MECHANICAL INSPECTORS WILL DETERMINE SUITABLE LOCATION FOR TEST STATIONS. ANNUNCIATORS AND TEST STATION WILL BE LOOPED IN THE CIRCUITRY OF THE SMOKE DETECTION DEVICES. WIRING WILL BE SUPPLIED AND COMPLETED BY THE EC.

### ELECTRICAL CONTRACTOR (EC) - KITCHEN EQUIPMENT:

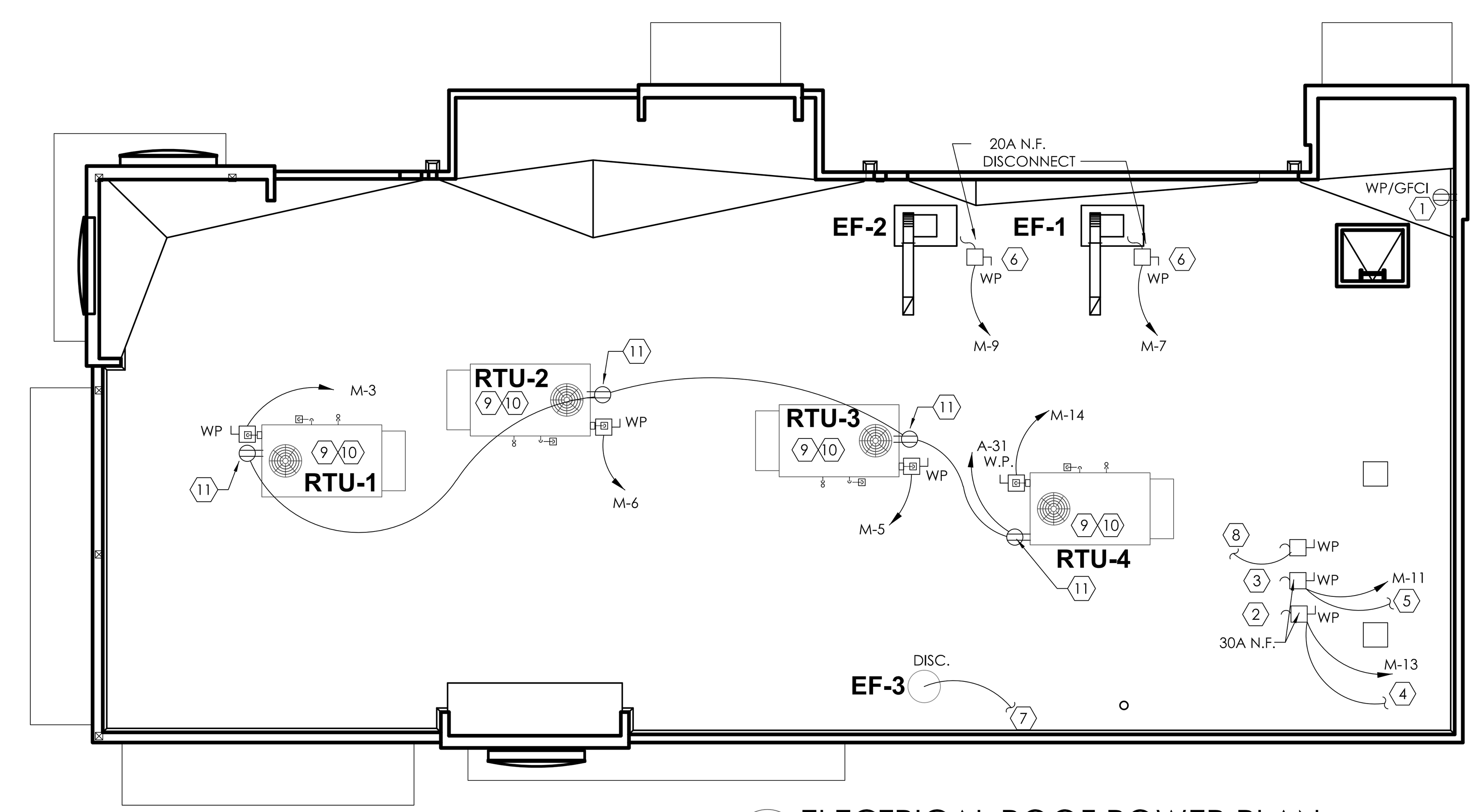
A. EC TO PROVIDE AND INSTALL RECEPTACLES, CAPS AND CORDS AS REQUIRED. CAPS AND CORDS ARE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
B. EC TO CONNECT ELECTRICAL SERVICE DIRECTLY TO EQUIPMENT ACCORDING TO THE MANUFACTURERS'S INSTRUCTIONS.
C. EC TO RECONNECT ELECTRICAL CIRCUITS ON PRE-WIRED EQUIPMENT DISASSEMBLED FOR SHIPMENT.
D. WHERE EQUIPMENT IS NOT PRE-WIRED, EC TO CONNECT THE ELECTRICAL SERVICE AND PROVIDE INTER-WIRING AS REQUIRED.
E. WHERE RECEPTACLES ARE PROVIDED WITH THE EQUIPMENT, EC TO PROVIDE AND INSTALL ELECTRICAL SERVICE DOWN FROM ABOVE THROUGH THE SERVICE CHASE PROVIDE WITH THE EQUIPMENT.
F. KITCHEN EQUIPMENT SUPPLIER DRAWINGS INCLUDE ONLY THOSE RECEPTACLES REQUIRED FOR SPECIFIC KITCHEN EQUIPMENT. REFER TO THE ARCHITECTS/ENGINEERS ELECTRICAL DRAWINGS FOR LOCATIONS OF UTILITY AND GENERAL PURPOSE RECEPTACLES.
G. EC TO VERIFY THE UTILITY REQUIREMENTS FOR ITEMS NOT PROVIDED BY THE KITCHEN EQUIPMENT SUPPLIER.
H. ALL PORTIONS OF WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND NATIONAL CODES, ORDINANCES AND STANDARDS.
I. NOTIFY THE KITCHEN EQUIPMENT SUPPLIER PROJECT MANAGER IMMEDIATELY OF COMPLIANCE WITH A LOCAL, STATE OR NATIONAL CODE IS IN CONFLICT WITH THESE DRAWINGS.

### ELECTRICAL CONTRACTOR (EC) - WALK-IN COOLER/FREEZER:

A. EC TO PROVIDE AND INSTALL A HEATING ELEMENT ON THE COOLER AND FREEZER CONDENSATE DRAIN LINES.
B. EC TO CONNECT THE PRIMARY ELECTRICAL SERVICE TO THE CONDENSING UNITS AND INTER-WIRE TO THE EVAPORATOR COIL(S), CONTROLS, LIGHTING FIXTURES AND DOOR PERIMETER HEATERS.

## KEYED NOTE - ROOF:

1. OPTIONAL WEATHERPROOF OUTLET 30" A.F.R. FOR TV VIDEO CAMERA. RUN CONDUIT TO BLDG. INT., VERIFY SIZE AND LOCATION WITH OWNER.
2. REMOTE FREEZER COMPRESSOR CONDENSING UNIT.
3. REMOTE COOLER COMPRESSOR CONDENSING UNIT.
4. TO FREEZER EVAPORATOR.
5. TO COOLER EVAPORATOR.
6. STUB-UP CONDUIT ADJ. TO ROOF CURB AND PROVIDE SEAL TIGHT CONNECTION TO DISCONNECT WITH SUFFICIENT SLACK TO ALLOW REMOVAL OF FAN FOR SERVICING.
7. FOR CONTINUATION, SEE LIGHTING PLAN, SHEET E-1.
8. DOWN TO ICE MACHINE.
9. SEE ELECTRICAL RISER SHEET E-3 FOR ELECTRICAL REQUIREMENTS TO MECHANICAL EQUIPMENT
10. RUN CONTROL WIRES VIA MASTER RELAY CONTROL PANEL. SEE SHEET E-5.
11. 120V/ 1Ø WATER PROOF, GFCI RECEPTACLE BY ELECTRICAL CONTRACTOR.




## ELECTRICAL ROOF POWER PLAN

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

## SYMBOL LEGEND

| DETAIL | DESCRIPTION |
|---|---|
| | TOGGLE SWITCH – SINGLE POLE HUBBELL #1221–I |
| | PUSHBUTTON SWITCH |
| | SINGLE RECEPTACLE HUBBELL #5361–I |
| | DUPLEX RECEPTACLE HUBBELL #5362–I |
| | 208V RECEPTACLE HUBBELL 208V, 1ø – #5352–I 208V, 3ø – #8420 |
| | TELEPHONE OUTLET WITH BUSHED HOLE COVERPLATE |
| | JUNCTION OR GANG BOX |
| | CABLE TELEVISION OUTLET |
| | BUZZER / BELL |
| | REAR DOOR ALARM |
| | TRANSFORMER |

## ABBREVIATIONS

| | |
|---|---|
| A–3 | CONDUIT RUN WITH ARROW DENOTING HOMERUN. SUBSCRIPT INDICATES PANEL AND CIRCUIT NO. GROUND CONDUCTOR REQUIRED IN ALL CONDUITS BUT NOT INDICATED |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTING |
| W.P. | WEATHERPROOF |
| A.F.F. | ABOVE FINISHED FLOOR. |
| I.G. | ISOLATED GROUND |

## KEYED NOTES - PLAN:

1. FRYER HOOD: PRE-WIRED (WITH RECEPTACLES BY HOOD MANUFACTURER. ELECTRICAL CONTRACTOR TO MAKE CONNECTION AT JUNCTION BOX AT THE TOP OF THE HOOD.
BROILER HOOD: PRE-WIRED (WITH DUPLEX RECEPTACLES) BY HOOD MANUFACTURER. ELECTRICAL CONTRACTOR TO MAKE CONNECTION AT JUNCTION BOX AT THE TOP OF THE HOOD. ELECTRICAL CONTRACTOR TO PROVIDE RECEPTACLE AND COVER PLATE FOR THE OVEN AND BROILER BASED ON EQUIPMENT SELECTED.
2. ELECTRICAL CONTRACTOR TO RUN CONDUITS AND WIRE THROUGH THE EQUIPMENT CHASE AND CONNECT TO CIRCUITS PROVIDED IN THE JUNCTION BOX BY EQUIPMENT MANUFACTURER.
3. VERIFY POWER REQUIREMENTS FOR SELECTED WATER HEATER.
4. REAR DOOR ALARM: "MONITOR 4000" BY SECURITY PRODUCTS, INC. OR APPROVED EQUAL. MOUNT SIMPLEX RECEPTACLE FOR POWER SUPPLY 6" ABOVE CEILING.
5. PERMANENTLY CONNECTED KITCHEN EQUIPMENT NOT SUPPLIED WITH ON/OFF UNIT SWITCH (WHICH IS PART OF THE APPLIANCE) TO SERVE AS A DISCONNECTING MEANS. UNIT SHALL BE SUPPLIED WITH A DISCONNECT AS PER N.E.C., FURNISHED BY THE ELECTRICAL CONTRACTOR.
6. G.C. TO VERIFY ELECTRICAL REQUIREMENTS FOR FIRE SUPPRESSION SYSTEM AND AUTO-SELENOID GAS SHUT-OFF VALVE.
7. RUN 2" CONDUIT TO MANAGERS OFFICE FOR CABLE TV.
8. HEAT TAPE IS PROVIDED BY THE WALK-IN BOX MANUFACTURER AND INSTALLED BY THE ELECTRICAL CONTRACTOR. CONTRACTOR SHALL COORDINATE INSTALLATION AND SUPPLY 120V CIRCUIT AND RECEPTACLE AS DIRECTED BY BOX MANUFACTURER.
9. DIGITAL MENU BOARDS (VERIFY 3 OR 4 BOARD INSTALLATION): PROVIDE (1) DUPLEX RECEPTACLE FOR 120V CIRCUIT AND (1) P-RING FOR DATA CABLE AT EACH MENU BOARD SCREEN. REFER TO DETAIL, SHEET E-4.
10. STAINLESS STEEL SERVICE CHASE TO CEILING FURNISHED BY THE EQUIPMENT MANUFACTURER.
11. CONTRACTOR SHALL OBTAIN WIRING DIAGRAM FROM THE WALK-IN BOX MANUFACTURER AND INSTALL AS DIRECTED.
12. CONTRACTOR SHALL COORDINATED EQUIPMENT INSTALLATION WITH THE EQUIPMENT MANUFACTURER'S INSTALLATION PERSONNEL.
13. PRE-WIRED BRANCH CIRCUITS DISCONNECTED FOR SHIPMENT TO BE RE-CONNECTED BY GC PER MANUFACTURER'S INSTALLATION SPECIFICATIONS.
14. ELECTRICAL CONTRACTOR TO PROVIDE CORD AND PLUG AND WIRE TO BROILER BASED ON EQUIPMENT SELECTED.
15. CONTRACTOR SHALL COORDINATE CONDUIT RUN BETWEEN FREEZER/COOLER EVAPORATORS AND ROOF-TOP REFRIGERATION UNIT WITH THE MANUFACTURER'S FURNISHED WIRING HARNESS.
16. ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOXES INSIDE WALL @ 48" A.F.F. WITH STUB-UPS TO CEILING FOR AMEREX PULL STATION AS REQUIRED BY EQUIPMENT SUPPLIER.
17. SMOKE DETECTOR ALARM PANEL: REFER TO SHEET M-1 FOR LOCATION OF A/C UNITS SMOKE DETECTORS.
18. (3) 1"Ø CONDUIT TO BASE OF DRIVE-THROUGH ORDER STATION FOR DRIVE-THROUGH COMMUNICATIONS SYSTEM, SOUND, DATA AND POWER.
19. 6" BELOW CEILING FOR CONDENSATE DRAIN LINE TAPE HEATER.
20. TO MASTER RELAY PANEL. REFER TO SHEET E-5
21. MANUAL ON-OFF CONTROL PANEL. REFER TO SHEET E-5
22. MASTER CONTACTOR PANEL. REFER TO SHEET E-5 AND NOTE #23, BELOW.
23. SWITCH GEAR OPTION #1:
RECESS ELECTRICAL CONTACTOR PANEL & PANELS 'A', 'B', & 'M' IN FURRED OUT WALL ADJACENT TO EXTERIOR FRAMING. G.C. TO VERIFY PANEL SIZES PRIOR TO FURR-OUT TO INSURE ADEQUATE SPACE.
SWITCH GEAR OPTION #2:
HILL PHOENIX INTEGRATED WALL UNIT INCLUDES PANELS 'A', 'B', 'M' AND MASTER CONTACTOR PANEL IN ONE CABINET. UNIT TO BE SURFACE MOUNTED ON 4" HIGH CONCRETE CURB. REFERENCE SHEET E-3 AND E-5 FOR ADDITIONAL INFORMATION.
24. PROVIDE VISUAL STROBE ALARM MOUNTED AT 80" A.F.F. TIE TO H.V.A.C. SMOKE ALARM SYSTEM.

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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TECHNICAL GROUP, inc.
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10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST,
ELKHART, IN 46514

SHEET TITLE
POWER PLAN

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JOB # TG-21668

SHEET E-2

# ELECTRICAL PANEL SCHEDULE

**PANEL:** A  **SERVICE:** 120/208V, 3P, 4W + GND  **FEEDERS:** SEE ONE LINE DIAGRAM
**PANEL TYPE:** SQ-D "NQOD" OR EQUAL  **BUS RATING:** 200 A M.L.O.  **MOUNTING:** NEMA-1 RECESSED

| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE | CB/P | | A B C | | CB/P | WIRE | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AREA LIGHTS ** | | 1080 | 10 | 20/2 | 1 | | 2 | 20/1 | 12 | 750 | | DINING RM. LIGHTS |
| | | 1080 | 10 | | 3 | | 4 | 20/1 | 12 | 810 | | DINING RM. LIGHTS |
| AREA LIGHTS ** | | 1080 | 10 | 20/2 | 5 | | 6 | 20/1 | 12 | 1500 | | KITCHEN AREA LIGHTS |
| | | 1080 | 10 | | 7 | | 8 | 20/1 | 12 | 720 | | OCU / CREDIT CARD SWIPE |
| PYLON SIGNS * ** | | 1200 | 12 | 20/1 | 9 | | 10 | 20/1 | 12 | 900 | | DIGITAL MENU BOARD #94A |
| SPARE | | | | | 11 | | 12 | 20/1 | 12 | 400 | | RESTROOM LIGHTS/EF-2 |
| DRIVE-THRU MENU SIGNS | | 720 | 12 | 20/1 | 13 | | 14 | 20/1 | 12 | 720 | | DIRECTIONAL SIGNS |
| SPARE | | | | 20/1 | 15 | | 16 | 20/1 | 12 | 45 | | OFFICE LIGHTS |
| SPARE | | | | 20/1 | 17 | | 18 | 20/1 | 12 | 360 | | SMOKE DETECTOR ALARM PANEL |
| LOGO ** | | 1200 | 12 | 20/1 | 19 | | 20 | 20/1 | 12 | 130 | | SERVICE AREA LIGHTS |
| PARAPET LIGHT BAND ** | | 240 | 10 | 20/1 | 21 | | 22 | 20/1 | 12 | 720 | | RELAY PANEL |
| CHANNEL LETTERS / LOGO ** | | 1200 | 12 | 20/1 | 23 | | 24 | | | | | SPARE |
| SPARE | | | | 20/1 | 25 | | 26 | 20/1 | 12 | 180 | | TELEPHONE REC. |
| EXTERIOR BUILDING LIGHTS ** | | 1475 | 12 | 20/1 | 27 | | 28 | 20/1 | 12 | 660 | | DINING RECEPTACLE |
| COOL/FRZR LIGHTS/DOOR HTR/HE. | | 400 | 12 | 20/1 | 29 | | 30 | 20/1 | 12 | 360 | | KITCHEN RECEPTACLES |
| ROOF/EXTERIOR RECEPTACLES | | 720 | 12 | 20/1 | 31 | | 32 | 20/2 | | 1080 | | AREA LIGHTS ** |
| SPARE | | | | 20/1 | 33 | | 34 | | | 1080 | | |
| D/T SPEED/SERVICE #90C CAMERA | | 540 | 12 | 20/1 | 35 | | 36 | 20/1 | 12 | 720 | | OFFICE RECEPTACLES |
| KITCHEN AREA LIGHTS | | 1200 | 12 | 20/1 | 37 | | 38 | 20/2 | 12 | 1500 | | VESTIBULE DUCT HEATER *** |
| CREW/STORAGE RECEPTACLES | | 540 | 12 | 20/1 | 39 | | 40 | | 12 | 1500 | | |
| LOGO ** | | 1200 | 12 | 20/1 | 41 | | 42 | 20/1 | 12 | 300 | | SAFE #70 |

**TOTAL CONNECTED LOAD:** 29,390 VA  **PHASE 'A':** 11080 VA
**TOTAL CONNECTED AMPS:** 81.6 AMP  **PHASE 'B':** 10250 VA
**PHASE 'C':** 8060 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTER
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.

PANEL 'A' NOTES:
1. ** ELECTRICAL CONTRACTOR TO WIRE THESE CIRCUITS THRU MASTER CONTACTOR PANEL. REFERENCE WIRING DIAGRAMS SHEET E-5.
2. ALL BREAKERS SHALL BE RATED FOR SWITCHING DUTY.
3. * VERIFY CIRCUIT REQUIREMENTS FOR PYLON SIGN.
4. *** ZONES A & B ONLY. COORDINATE WITH HVAC.

# ELECTRICAL PANEL SCHEDULE

**PANEL:** M  **A.I.C. RATING:** 42,000  **SERVICE:** 120/208V, 3P, 4W + GND  **FEEDERS:** SEE ONE LINE DIAGRAM
**PANEL TYPE:** SQ-D "I-LINE" OR EQUAL  **SIZE:** 600 AMP MCB  **MOUNTING:** NEMA-1 RECESSED

| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE | CB/P | | A B C | | CB/P | WIRE | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PANEL A | | 11080 | 3/0 | 200/3 | 1 | | 2 | 200/3 | 3/0 | 7594 | | PANEL B |
| | | 10250 | | | | | | | | 7032 | | |
| | | 8060 | | | | | | | | 10398 | | |
| RTU-1 | HACR | 3140 | #8 | 50/3 | 3 | | 4 | 100/3 | 1/0 | 15360 | | PANEL D |
| | | 3140 | | | | | | | | 13440 | | |
| | | 3140 | | | | | | | | 8040 | | |
| RTU-3 | HACR | 3140 | #8 | 50/3 | 5 | | 6 | 50/3 | #8 | 3140 | | RTU-2 |
| | | 3140 | | | | | | | | 3140 | | |
| | | 3140 | | | | | | | | 3140 | | |
| EF-1 #23A | | 350 | #12 | 20/2 | 7 | | 8 | 30/3 | #10 | 3240 | | BISCUIT OVEN #36 |
| | | 350 | | | | | | | | 3240 | | |
| | | | | | | | | | | 3240 | | |
| EF-2 #33A | | 350 | #12 | 20/2 | 9 | | 10 | 45/3 | #8 | 7280 | | SHAKE MACHINE |
| | | 350 | | | | | | | | 7280 | | |
| | | | | | | | | | | 7280 | | |
| WALK-IN BOX COOLER CONDENSER #40 | | 465 | #12 | 20/2 | 11 | | 12 | 30/3 | #10 | 1700 | | FROZEN COKE MACHINE #14 |
| | | 465 | | | | | | | | 1700 | | |
| | | | | | | | | | | | | |
| WALK-IN BOX FREEZER CONDENSER #40 | | 3024 | #10 | 30/3 | 13 | | 14 | 50/3 | #8 | 3140 | | RTU-4 |
| | | 3024 | | | | | | | | 3140 | | |
| | | 3024 | | | | | | | | 3140 | | |

**TOTAL CONNECTED LOAD:** 165,897 VA  **PHASE 'A':** 63003 VA
**TOTAL CONNECTED AMPS:** 460.8 AMPS  **PHASE 'B':** 59651 VA
**PHASE 'C':** 43243 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTOR
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.

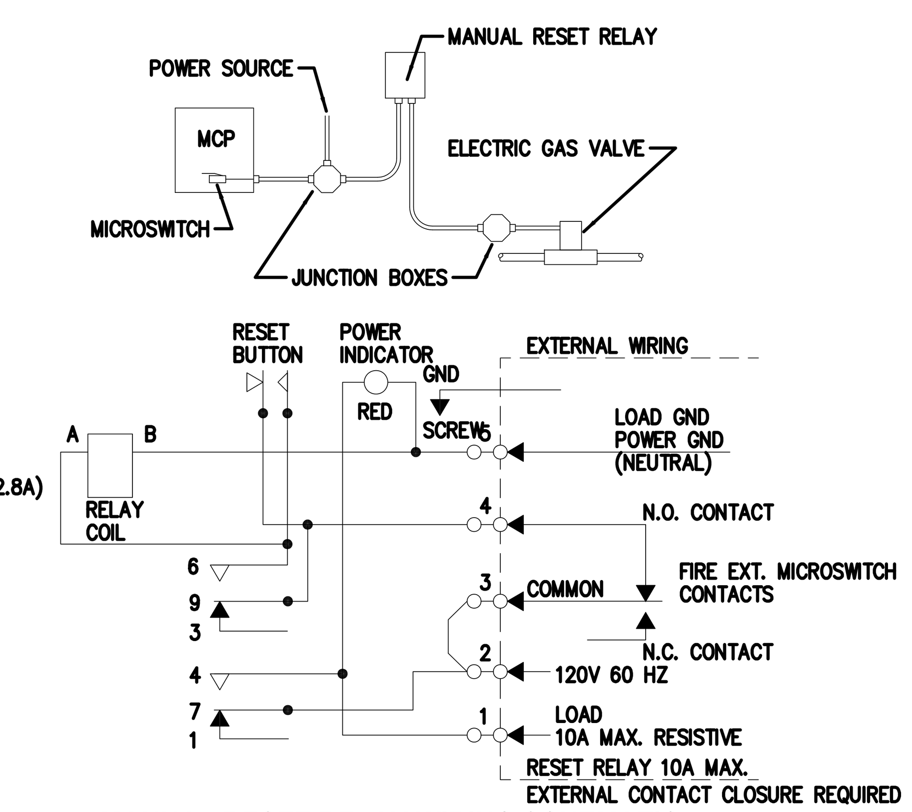
**LOAD SUMMARY**

KITCHEN LOADS
A 0
B 20368
D 36840
M 102170
TOTAL 159378 X 65% = 103596

LIGHTING LOADS
A 19670
B 0
D 0
M 19670
TOTAL 39340 X 125% = 49175

REMAINING LOADS
A 9720
B 4656
D 0
M 53456
TOTAL 67832 X 100% = 67832

TOTAL ADJUSTED LOAD = 220,602.7 (612.8A)




MANUAL RESET RELAY WIRING SCHEMATIC

## AMEREX AUTOMATIC FIRE CONTROL SYSTEM

SCALE: NONE

# ELECTRICAL PANEL SCHEDULE

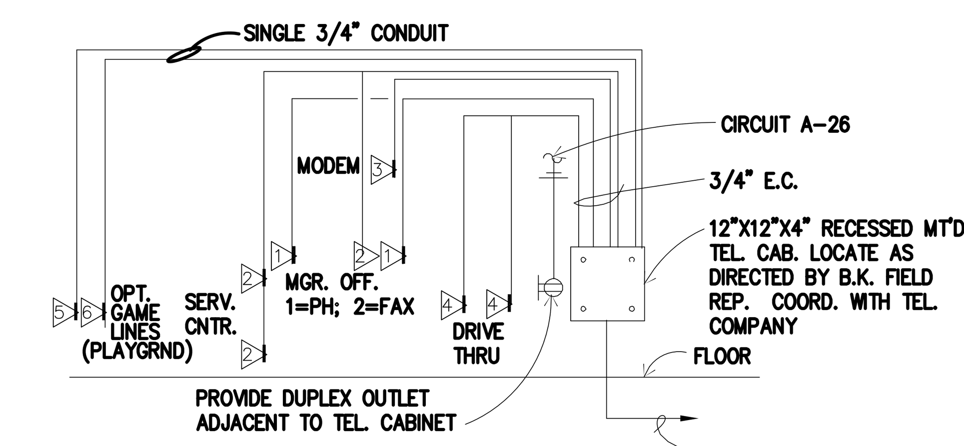
**PANEL:** B  **SERVICE:** 120/208V, 3P, 4W + GND  **FEEDERS:** SEE ONE LINE DIAGRAM
**PANEL TYPE:** SQ-D "NQOD" OR EQUAL  **SIZE:** 200 AMP MLO  **MOUNTING:** NEMA-1 RECESSED

| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE | CB/P | | A B C | | CB/P | WIRE | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SELF-SERVE DRINK DISPENSER #10 | | 600 | 12 | 20/1 | 1 | | 2 | 20/1 | | | | SPARE |
| P.O.S. RECEPTACLES ■ | IG/LO | 1320 | 12 | 20/1 | 3 | | 4 | 20/1 | | | | SPARE |
| P.O.S. RECEPTACLES ■ | IG/LO | 1320 | 12 | 20/1 | 5 | | 6 | 20/1 | 12 | 400 | | BROILER |
| DRIVE-THRU DRINK DISPENSER #11 | | 600 | 12 | 20/1 | 7 | | 8 | 20/1 | 12 | 1200 | | U/C REFRIGERATOR #53 |
| REAR DOOR BUZZER | | 720 | 12 | 20/1 | 9 | | 10 | 20/1 | 12 | 576 | | SERVICE CTR/D.T. RECEPT. |
| DOOR ALARM | | 720 | 12 | 20/1 | 11 | | 12 | 30/1 | 12 | 2400 | | FRY HOLD STATION #30 |
| WATER HEATER | | 300 | 12 | 20/1 | 13 | | 14 | 20/1 | 12 | 700 | | MEAT FREEZER #25 |
| CARBONATOR | | 744 | 12 | 20/1 | 15 | | 16 | 20/1 | 12 | 552 | | FRY FREEZER #32 |
| CARBONATOR | | 744 | 12 | 20/1 | 17 | | 18 | 20/1 | | | | SPARE |
| CARBONATOR | | 744 | 12 | 20/1 | 19 | | 20 | 20/2 | 12 | 1300 | HACR | ICE MACHINE |
| COFFEE/TEA BREWER #17 | | 1820 | 12 | 20/2 | 21 | | 22 | | 12 | 1300 | | |
| | | 1820 | 12 | | 23 | | 24 | 20/1 | 12 | 1344 | | FRYER CONTROLS #31 ** |
| SHORTENING STORAGE UNIT #31B | | 500 | 12 | 20/1 | 25 | | 26 | 20/1 | | | | SPARE |
| SPARE | | | | 20/1 | 27 | | 28 | 20/1 | | | | SPARE |
| SPARE | | | | 20/1 | 29 | | 30 | 20/2 | 12 | 1650 | | PRODUCT HOLDING UNIT #51 |
| SPARE | | | | 20/1 | 31 | | 32 | | 12 | 1650 | | |
| SPARE | | | | 20/1 | 33 | | 34 | 20/1 | | | | SPARE |
| SPARE | | | | 20/1 | 35 | | 36 | 20/1 | | | | SPARE |
| SPARE | | | | 20/1 | 37 | | 38 | 20/1 | | | | SPARE |
| SPARE | | | | 20/1 | 39 | | 40 | 20/1 | | | | SPARE |
| SPARE | | | | 20/1 | 41 | | 42 | 20/1 | | | | SPARE |

**TOTAL CONNECTED LOAD:** 25,024 VA  **PHASE 'A':** 7594 VA
**TOTAL CONNECTED AMPS:** 69.5 AMP  **PHASE 'B':** 7032 VA
**PHASE 'C':** 10398 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTER
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.

PANEL 'B' NOTES:
1. * PROVIDE ISOLATED GROUND BUS.
2. ** CONTRACTOR SHALL WIRE THESE CIRCUITS THRU MASTER CONTACTOR PANEL. REFERENCE WIRING DIAGRAM SHEET E-5.
3. ■ PROVIDE HLO-1 HANDLE LOCK-OFF.




TELEPHONE NOTE:
PROVIDE NYLON PULLCORD IN EACH CONDUIT.

## TELEPHONE RISER DIAGRAM

SCALE: NONE

# ELECTRICAL PANEL SCHEDULE

**PANEL:** D  **SERVICE:** 120/208/240V, 3P, 4W + GND  **FEEDERS:** SEE ONE LINE DIAGRAM
**BUS RATING:** 150A M.L.O.  **MOUNTING:** FURNISHED BY EQUIPMENT SUPPLIER

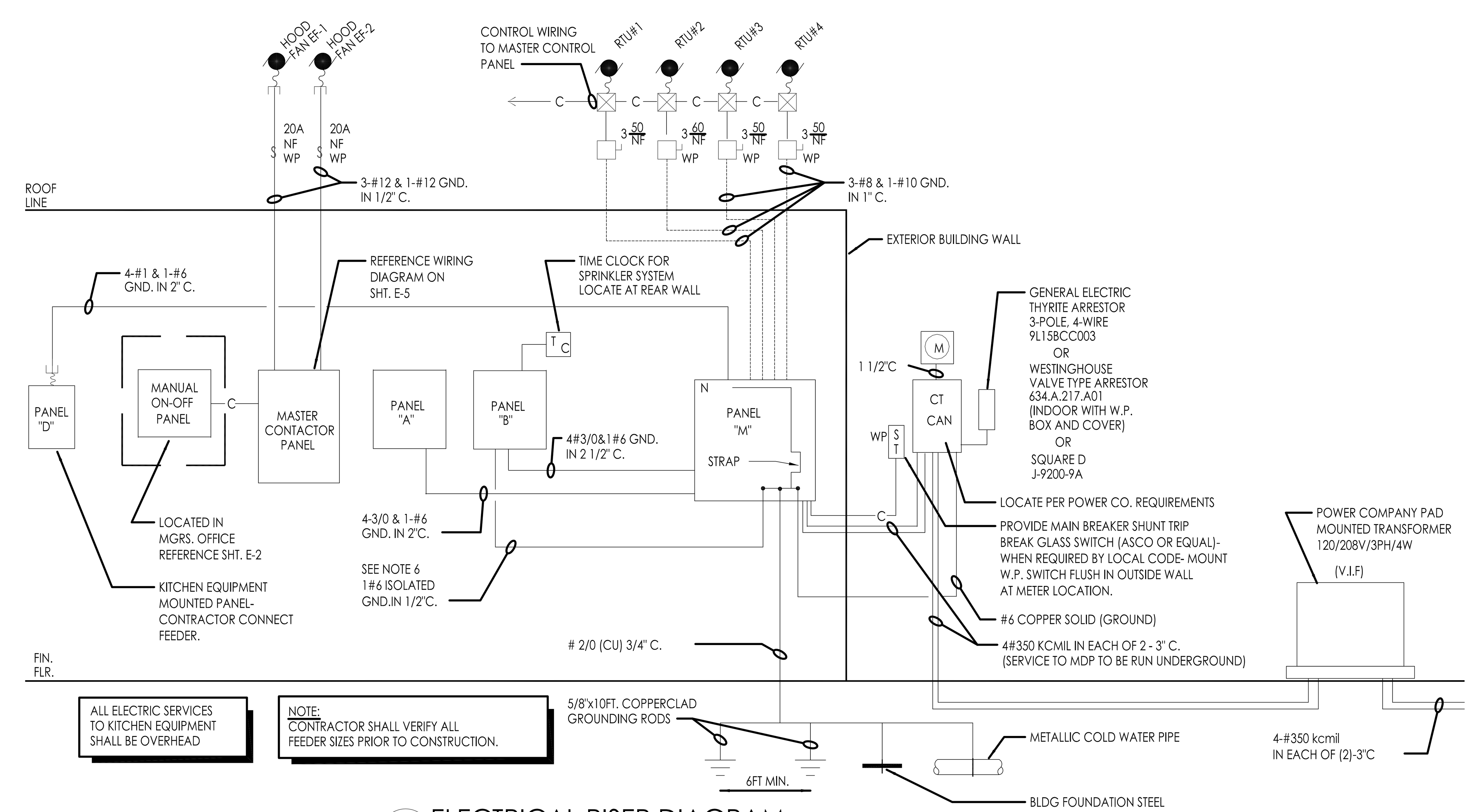
| LOAD DESCRIPTION | NOTE | LOAD VOLT-AMP | WIRE | CB/P | | A B C | | CB/P | WIRE | LOAD VOLT-AMP | NOTE | LOAD DESCRIPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PHU/MICROWAVE | | 1920 | 12 | 20/2 | 1 | | 2 | 20/2 | 12 | 1920 | | PHU |
| | | 1920 | 12 | | 3 | | 4 | | 12 | 1920 | | |
| PHU/MICROWAVE | | 1920 | 12 | 20/2 | 5 | | 6 | 20/2 | 12 | 1920 | | PHU |
| | | 1920 | 12 | | 7 | | 8 | | 12 | 1920 | | |
| SPACE | | | | 20/2 | 9 | | 10 | 20/2 | 12 | 1920 | | EGG COOKER |
| SPACE | | | | | 11 | | 12 | | 12 | 1920 | | |
| BUN TOASTER | | 2880 | 10 | 30/2 | 13 | | 14 | 20/1 | 12 | 1920 | | SPARE |
| | | 2880 | 10 | | 15 | | 16 | 20/1 | 12 | 1920 | | SANDWICH STATION |
| SPACE | | | | | 17 | | 18 | 30/2 | 10 | 2880 | | VERTICAL TOASTER |
| SPACE | | | | | 19 | | 20 | | | 2880 | | |
| SPACE | | | | | 21 | | 22 | 20/1 | 12 | 360 | | REFRIGERATOR (32.58) |
| SPACE | | | | | 23 | | 24 | | | | | SPACE |

**TOTAL CONNECTED LOAD:** 36,840 VA  **PHASE 'A':** 15360 VA
**TOTAL CONNECTED AMPS:** 102.3 AMP  **PHASE 'B':** 13440 VA
**PHASE 'C':** 8040 VA

**NOTES:**
(TC) = WIRE THROUGH CONTACTOR.
(HACR) = HACR TYPE BREAKER.
(LO) = LOCKED BREAKER
(GFCI) = GROUND FAULT CIRCUIT INTERRUPTOR
(IG) = WIRE SEPARATE TO ISOLATED GROUND BUS.

RISER NOTES:
1. ALL FUSED DISCONNECT SWITCHES TO BE PROVIDED BY CONTRACTOR.
2. REFER TO PANEL NOTES.
3. REFER TO GENERAL NOTES, SHEET E-2
4. "T.C." INDICATES TIME CLOCK (OR TIME SWITCH)
5. SEE MASTER CONTACTOR PANEL WIRING DIAGRAM FOR ADDITIONAL CIRCUITS FROM PANELS THAT ARE CONTROLLED THROUGH THE MASTER CONTACTOR PANEL
6. PROVIDE AN ISOLATED GROUND BUS IN PANEL & RUN CIRCUIT GROUND WIRE TO THIS BUS. RUN A #6 GREEN GROUND FROM THIS BUS TO MAIN SERVICE GROUND POINT.
7. MASTER CONTACTOR PANEL AND MANUAL ON-OF PANEL TO BE INCLUDED IN ELECTRICAL CONTRACTORS SCOPE OF WORK.

ELECTRICAL DISTRIBUTION PANELS, MASTER CONTACTOR PANEL AND MANUAL ON/OFF PANEL MAY BE PURCHASED AS A LOOSE GEAR PACKAGE THROUGH:
SUNCOAST ENVIRONMENTAL CONTROLS, INC.
8566 115TH AVENUE NORTH
LARGO, FLORIDA 34643
PHONE (877) 544-6679




## ELECTRICAL RISER DIAGRAM

SCALE: NONE

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIE |
| 3 | 06.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITTAL |

Drawn By: CP
Checked: SB
Scale: AS NOTED
Date: 08.02.21

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AZIZ S. BOU-MAROUN REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER
10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
ELECTRICAL PANELS AND RISERS

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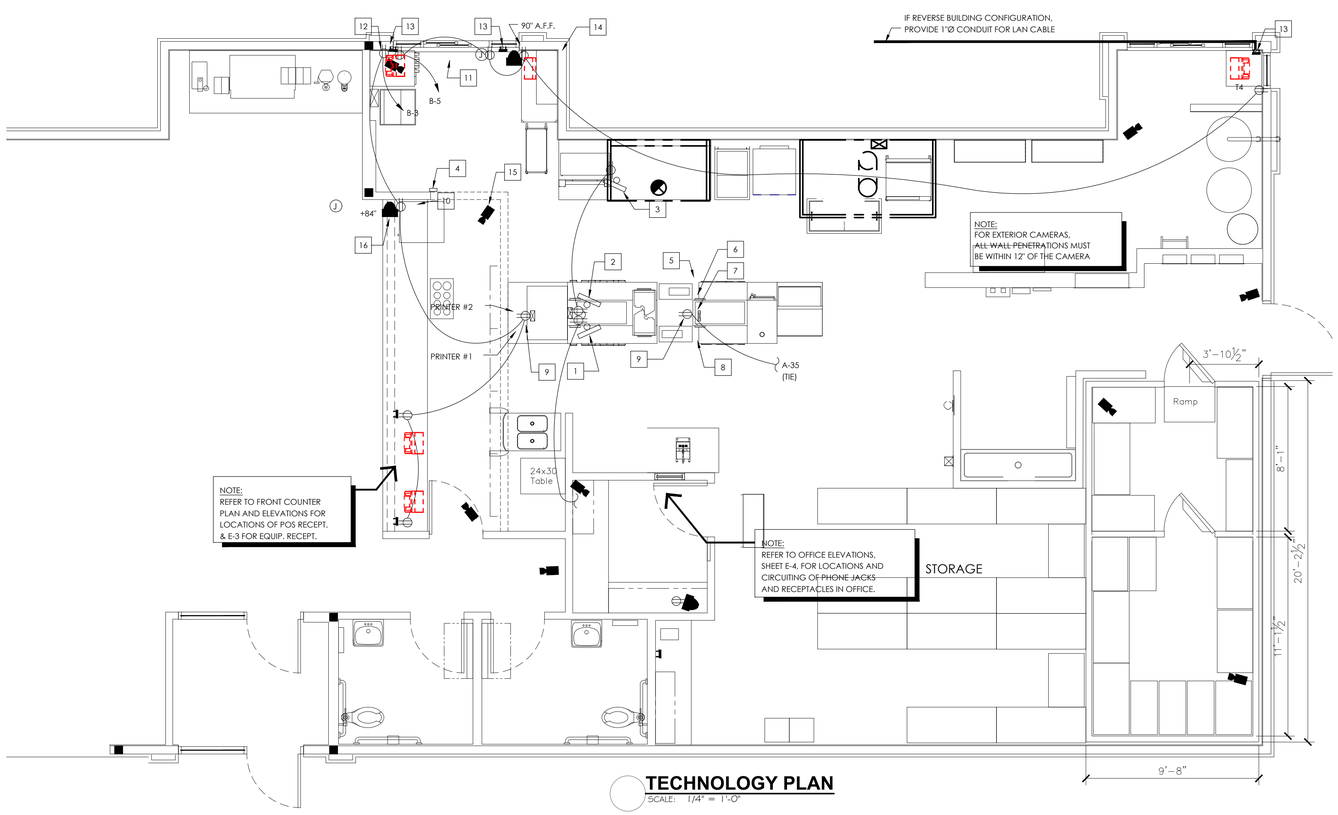
JOB # TG-21668

SHEET E-3




## TECHNOLOGY PLAN
SCALE: 1/4" = 1'-0"

## GENERAL NOTES:

A. CONTRACTOR TO VERIFY WHICH SYSTEM IS TO BE INSTALLED. REQUIREMENTS CAN VARY DEPENDING ON MANUFACTURER. THE CONTRACTOR IS CAUTIONED TO VERIFY ALL REQUIREMENTS PRIOR TO CONSTRUCTION.

B. CONTRACTOR TO PROVIDE ALL RECEPTACLE OUTLETS, CONDUITS AND J-BOXES AS INDICATED ON PLAN.

C. CONTRACTOR TO VERIFY AND COORDINATE LOCATION OF VIDEO DISPLAY DEVICES W/ BURGER KING REPRESENTATIVE.

D. MAINTAIN P.O.S. CABLES A MIN. OF 12" AWAY FROM ANY FLUORESCENT LIGHT SOURCES ABOVE CEILING.

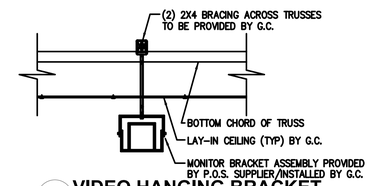
E. ELECTRICAL CONTRACTOR TO IDENTIFY P.O.S. JUNCTION BOXES ABOVE CEILING "GROUND P.O.S. ONLY".

## KEYED PLAN NOTES:

1. DISPLAY #1 AND BUMB BAR. PROVIDE 4"ø CONDUIT FOR VIDEO, BUMP BAR AND PRINTERS. PROVIDE CEILING MOUNTED RECEPTACLES. (TYPICAL FOR DISPLAY #1, #2 AND #3)
2. DISPLAY #2 AND BUMP BAR
3. DISPLAY #3 AND BUMP BAR
4. STOCK LEVEL LIGHT CONTROLLER @ 60" A.F.F.
5. TOTAL SERVICE TIME DISPLAY
6. GRADE DISPLAY
7. CLOCK-RECEPT. IN CHASE
8. STOCK LEVEL DISPLAY RECEPT. IN CHASE
9. EQUIPMENT MOUNTED RECEPTACLES BY K.E.S. CIRCUITING RUNS BY E.C.
10. J-BOX W/ 3/4" CONDUIT @ 84" A.F.F.
11. CEILING MOUNTED D/T TIMER WINDOW TIME DISPLAY
12. 90" A.F.F. FOR D/T LAND MONITOR.
13. P-RING @ 24" A.F.F. W/ 1" CONDUIT TO ABOVE CLG.
14. J-BOX W/1" CONDUIT TO CLG. FOR PHU DATA CABLE. (LOCATE NEXT TO PHU RECEPT.)
15. SECURITY CAMERA (TYPICAL)
16. SECURITY MONITOR (TYPICAL)

## SYMBOL LEGEND

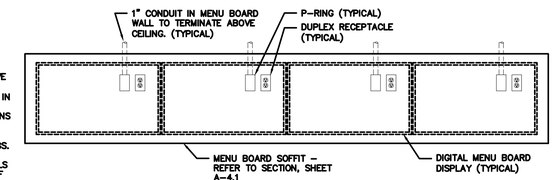
| DETAIL | DESCRIPTION |
|---|---|
| | DUPLEX 125V-20A-2 POLE-3 WIRE STRAIGHT BLADE RECEPTACLE OUTLET - WALL MTD. (24" A.F.F., - U.O.N.) |
| | SINGLE 125V-20A-2 POLE-3 WIRE STRAIGHT BLADE RECEPTACLE OUTLET - WALL MTD. (24" A.F.F., - U.O.N.) |
| | DRYWALL P-RING |
| | BUMP-BAR |
| | TELEPHONE OUTLET FOR P.O.S. MODEM (ALL OUTLETS HOMERUN IN 3/4" CONDUIT TO TELEPHONE BACKBOARD) MOUNT 96" A.F.F. |
| | P.O.S. PRINTER DEVICE |
| | P.O.S. REGISTER DEVICE |
| D | VIDEO DISPLAY DEVICE (CEILING MTD.) |
| | SECURITY CAMERA BY "PRIVID-EYE" CONTACT: LARRY SATTLER, 954-581-1756 |
| | SECURITY MONITOR BY "PRIVID-EYE" PROVIDE DUPLEX RECEPTACLE @ 84" A.F.F. (VERIFY) CONNECT TO P.O.S. CIRCUIT |



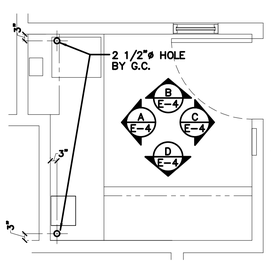

## VIDEO HANGING BRACKET
SCALE: NONE

### NOTES:

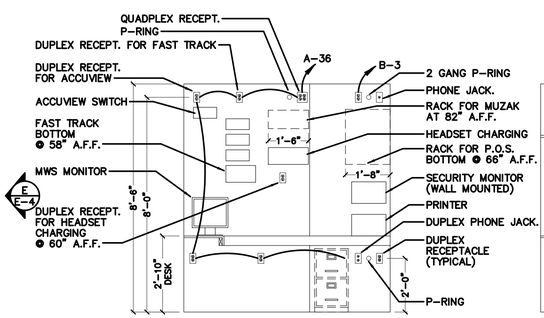
1. (1) DUPLEX RECEPTACLE PER SCREEN
2. (1) P-RING PER SCREEN WITH 1" CONDUIT TO ABOVE CEILING. DATA CABLE TO RUN TO MEDIA PLAYER(S) IN OFFICE
3. VERIFY NUMBER OF SCREENS USED (3 OR 4) PRIOR TO INSTALLATION OF RECEPTACLES AND P-RINGS.
4. DETERMINE SCREEN AND MOUNTING BRACKET MODELS PRIOR TO INSTALLATION OF RECEPTACLES AND P-RINGS.
5. REFER TO SHEET E-2, POWER PLAN FOR CIRCUITING REQUIREMENTS.



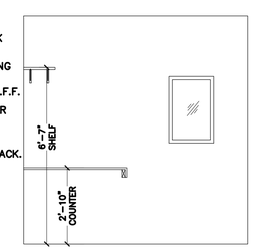

## DIGITAL MENU BOARD INSTALLATION
SCALE: 1/2" = 1'-0"



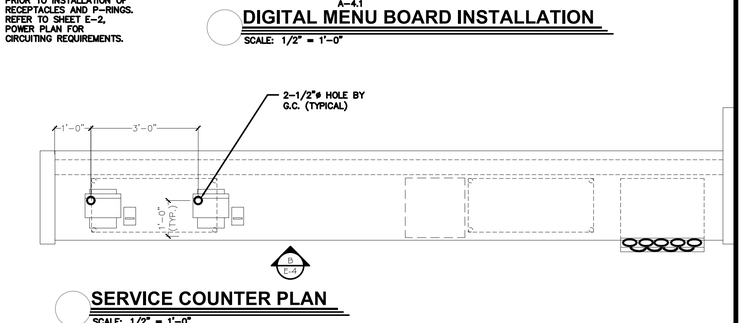

## OFFICE PLAN
SCALE: 3/8" = 1'-0"



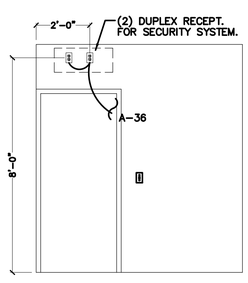

## A ELEVATION
SCALE: 3/8" = 1'-0"



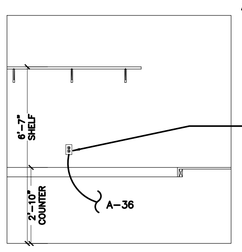

## B ELEVATION
SCALE: 3/8" = 1'-0"



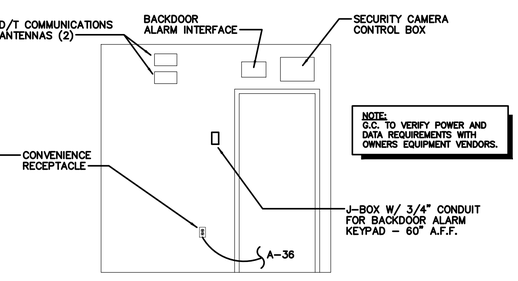

## SERVICE COUNTER PLAN
SCALE: 1/2" = 1'-0"



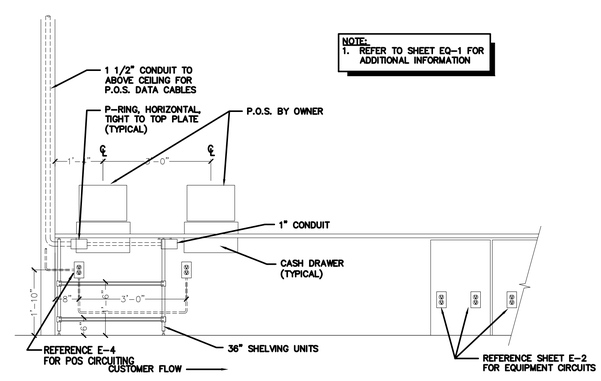

## C ELEVATION
SCALE: 3/8" = 1'-0"




## D ELEVATION
SCALE: 3/8" = 1'-0"




## E ELEVATION
SCALE: 3/8" = 1'-0"




## B KITCHEN SIDE COUNTER ELEVATION
SCALE: 1/2" = 1'-0"

| No. | Date | By | Notes |
|---|---|---|---|
| 2 | 02.17.2022 | AS | STATE BUILDING AND ENGINEERING REVIEW |
| 3 | 04.29.2022 | AG | TECHNICAL REVIEW COMMENTS |
| 4 | 07.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 5 | 08.25.2022 | JB | TECHNICAL REVIEW MEETING REVISIONS |
| 6 | 09.06.2022 | JB | INDOT SUBMITAL |

Drawn By: CP

Checked: SB

Scale: AS NOTED

Date: 08.02.21

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P:(248) 426-8000 F:(248) 426-0304

AZIZ S. BOU-MARON REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST.
ELKHART, IN 46514

SHEET TITLE
TECHNOLOGY PLAN

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # TG-21668

SHEET E-4

## "MORNING ARRIVAL"

STEP 1

TURN THE KITCHEN UNOCCUPIED–OCCUPIED SWITCH TO THE THE OCCUPIED POSITION. THE KITCHENS AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTAT SET POINT.

NOTE: THE AIR CONDITIONING FAN WILL START AND RUN CONTINUOUSLY. EXHAUST FAN WILL NOT RUN UNTIL THIS SWITCH IS IN THE OCCUPIED POSITION.

STEP 2

TURN ON THE EXHAUST FAN SWITCH TO THE ON POSITION THIS WILL ALLOW YOU TO TURN ON THE FRYERS AND BROILER.

## "RESTAURANT OPEN FOR BUSINESS"

STEP 1

TURN THE DINING UNOCCUPIED–OCCUPIED SWITCH TO THE THE OCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM NIGHT SETBACK MODE TO THE THERMOSTAT SET POINT.

STEP 2

TURN THE SIGN AND PARKING LOT LIGHTING SWITCHES TO THE AUTO POSITION, THIS WILL ENGAGE THE LIGHTING PHOTOCELLS SO THAT THE LIGHTS WILL AUTOMATICALLY COME ON AFTER DARK. TURN THE SWITCH TO THE ON POSITION TO OVER RIDE THE PHOTOCELLS AT ANY TIME THE LIGHTING MUST REMAIN ON.

## "RESTAURANT CLOSE FOR BUSINESS"

STEP 1

TURN THE DINING UNOCCUPIED–OCCUPIED SWITCH TO THE UNOCCUPIED POSITION. THE DINING AIR CONDITIONING SYSTEM WILL GO FROM THE THERMOSTAT SET POINT TO THE NIGHT SET BACK MODE.

STEP 2

TURN THE SIGN AND PARKING LOT LIGHTING SWITCHES TO THE OFF POSITION, THIS WILL DISENGAGE THE LIGHTING PHOTOCELLS.

STEP 3

TURN THE EXHAUST FAN SWITCH TO THE OFF POSITION THE BROILERS EXHAUST FAN WILL CONTINUE TO RUN FOR 15 MINUTES FOR A COOL DOWN CYCLE, AND THEN SHUT OFF AUTOMATICALLY.

NOTE: THE FRYERS AND BROILER SHOULD BE TURNED OFF AND ALLOWED TO COOL DOWN BEFORE TURNING THE HOOD OFF. TO PREVENT ACCIDENTAL ANSUL DISCHARGE, THE BROILERS HOOD WILL ALWAYS RUN 15 MINUTES AFTER THE EXHAUST FAN SWITCH IS TURNED TO THE OFF POSITION.

## "EMPLOYEES LEAVING THE BUILDING"

STEP 1

WHEN READY TO EXIT THE BUILDING PUSH THE SECURITY DEPARTURES SWITCH. THE PARKING LOT LIGHTS WILL COME BACK ON FOR 15 MINUTES THEN SHUT OFF AUTOMATICALLY.

## "MANAGER/LAST PERSON LEAVING THE BUILDING"

STEP 1

TURN THE KITCHEN UNOCCUPIED–OCCUPIED SWITCH TO THE UNOCCUPIED POSITION. THE KITCHENS AIR CONDITIONING SYSTEM WILL GO FROM THE THERMOSTAT SET POINT TO THE NIGHT SET BACK MODE.

STEP 2

WHEN READY TO EXIT THE BUILDING PUSH THE SECURITY DEPARTURE SWITCH. THE PARKING LOT LIGHTS WILL COME BACK ON FOR 15 MINUTES THEN SHUT OFF AUTOMATICALLY.

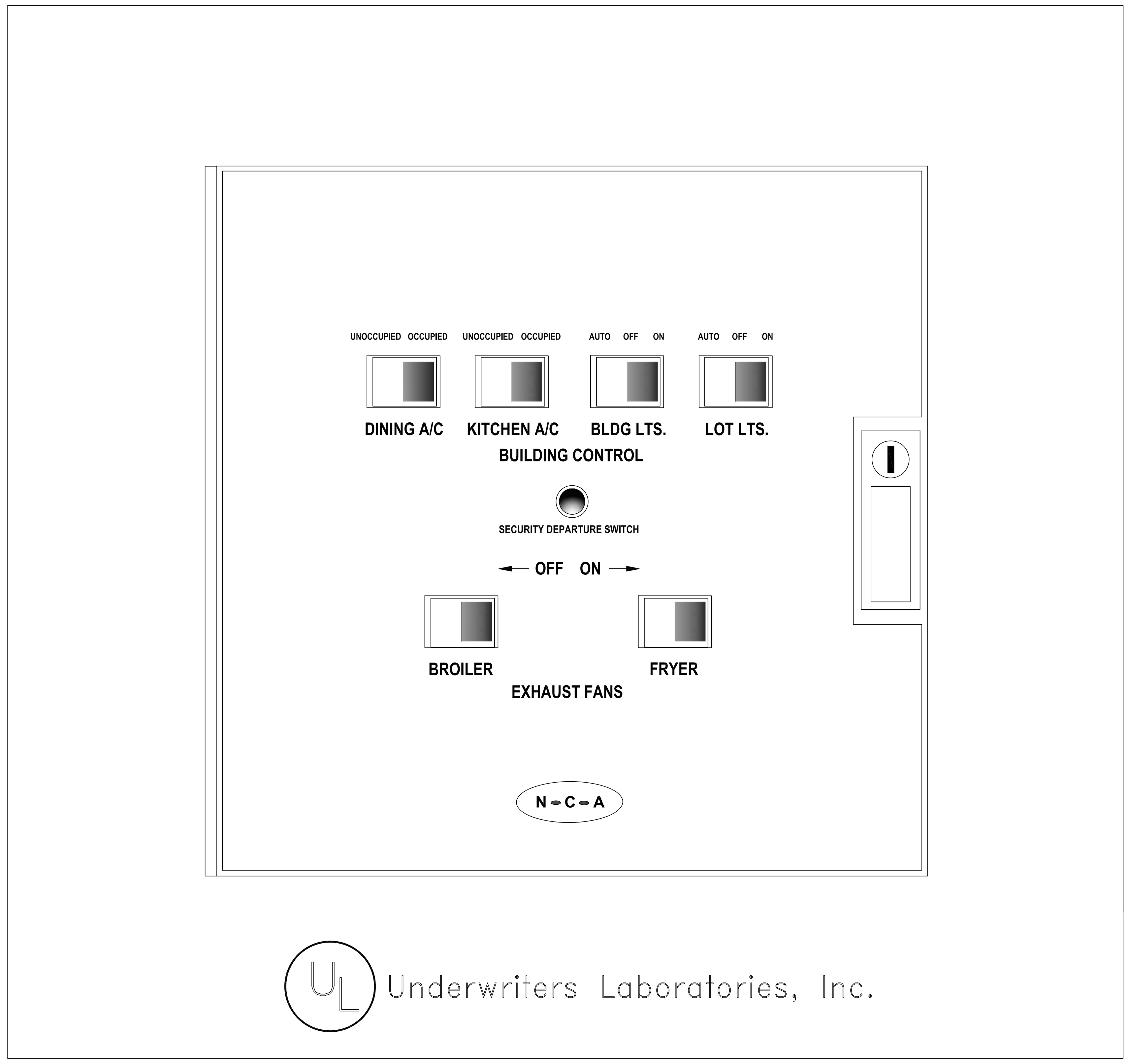
## "HOOD VENTILATION SYSTEM NOTE"

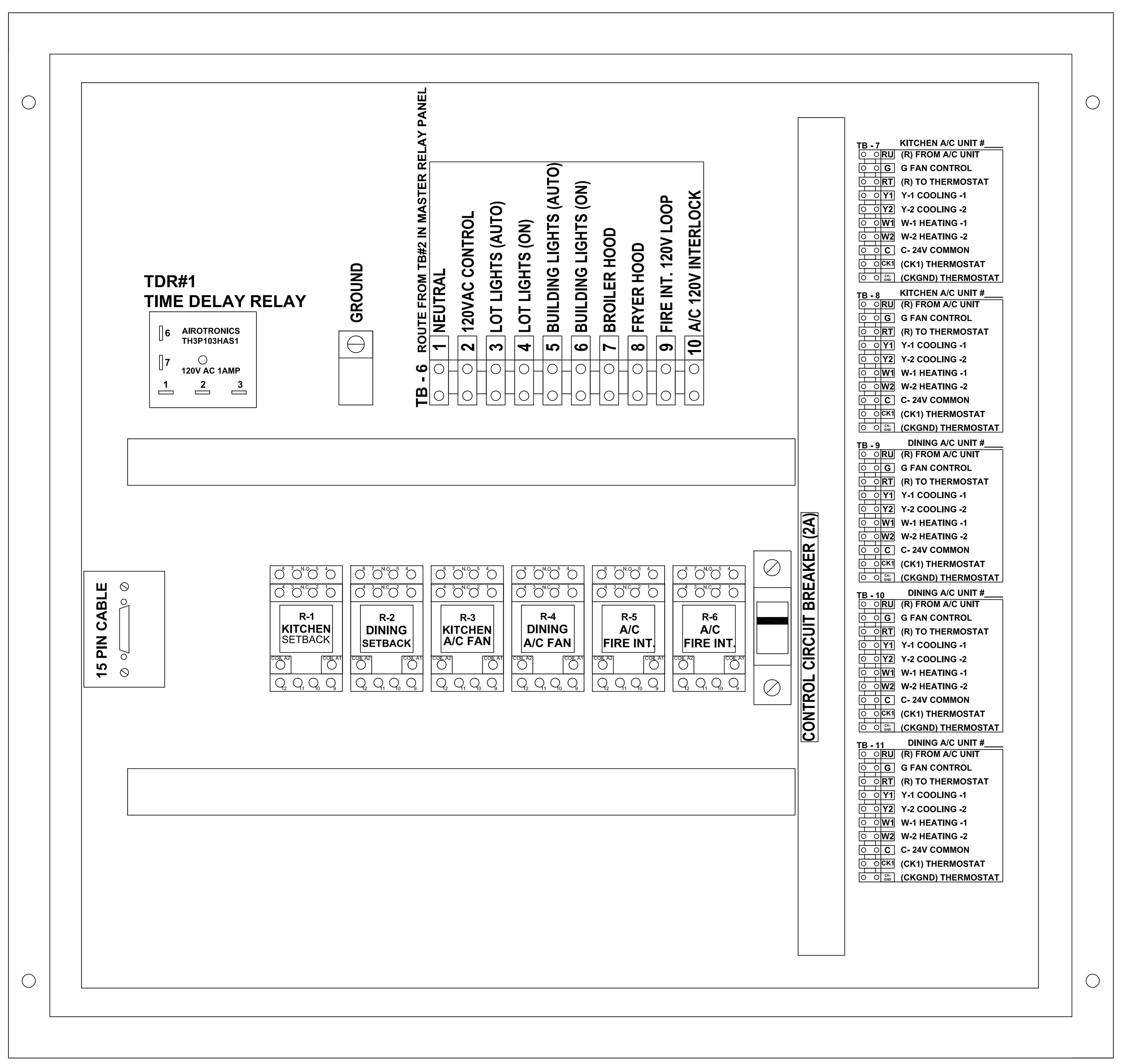
WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE (SUCH AS A BELT BREAKING) IT WILL DISABLE THE LINE VOLTAGE TO THE EXHAUST FAN(S), FRYER AND BROILER APPLIANCES. THE EXHAUST FAN SWITCH SHOULD BE PLACED IN THE OFF POSITION AND THE FAN SHOULD BE CHECKED AND/OR REPAIRED BEFORE TURNING THE SWITCH TO THE ON POSITION.

## "PARKING LOT LIGHTING NOTE"

WHEN THE PARKING LOT LIGHTS ARE TURNED OFF, THEY MUST COOL DOWN FOR ABOUT 10 MINUTES BEFORE THEY WILL COME BACK ON.

*NOTE: IF IT IS NECESSARY TO ADJUST THE AMPERAGE OF THE BROILER EXHAUST HOOD FAN MOTOR, THE FAN MOTOR CURRENT SENSOR MUST BE RESET AS FOLLOWS: ADJUST UNDERCURRENT POTENTIOMETER TO MAXIMUM (CLOCKWISE IS MAXIMUM.) APPLY CURRENT. ONCE CURRENT IS STABILIZED, DECREASE UNDERCURRENT POT UNTIL RED LIGHT TURNS OFF. WITHIN SEVEN SECONDS TURN UP UNTIL RED LIGHT TURNS ON. IF A LIGHT REMAINS OFF FOR MORE THEN TEN SECONDS, DISCONNECT SUPPLY VOLTAGE TO RESET. SEE INSTALLATION INSTRUCTIONS PN MRP COVER.




# SEQUENCE OF OPERATION

## MANUAL CONTROL SYSTEM

THE A/C UNITS UNOCCUPIED-OCCUPIED SWITCH IS USED TO: TURN THE STORE ON IN THE MORNING AND OFF IN THE EVENING.

WHEN A/C UNIT UNOCCUPIED-OCCUPIED SWITCH IS TURNED TO THE ON POSITION:
THE AIR CONDITIONING SYSTEM WILL GO FROM NIGHT MODE TO SYSTEM ON.

THE AIR CONDITIONING FANS WILL START AND RUN CONTINUOUSLY.

THE OUTDOOR DAMPERS WILL OPEN TO A PRESET POSITION. (OPTIONAL)

DAMPERS WILL NOT OPEN DURING NIGHT SET BACK MODE. (OPTIONAL)

THE AIR CONDITIONERS WILL BEGIN TO COOL OR HEAT AT THE OCCUPIED TEMPERATURE SETPOINT.

THE COOKING EQUIPMENT AND EXHAUST FANS CAN NOW BE TURNED ON WHEN NEEDED.

WHEN A/C UNOCCUPIED-OCCUPIED SWITCH IS TURNED TO THE OFF POSITION:
EXHAUST FANS, SUPPLY FANS, AND EVAPORATOR BLOWERS WILL SHUT DOWN.

THE HEATING AND COOLING OPERATION SHALL REVERT TO SYSTEM NIGHT SET BACK MODE.

THE COOKING EQUIPMENT SHALL BE DISABLED.

THE SIGNAGE LIGHTING & LOT LIGHTING SHALL BE DISABLED IF SWITCHES ARE IN THE OFF POSITION.

THE PARKING LOT POLE LIGHTS & SECURITY LIGHTS SHALL REMAIN ON FOR 15 MIN AFTER THE SECURITY DEPARTURE SWITCH IS ACTIVATED.

WHEN THE HOOD EXHAUST FAN CURRENT SENSOR DETECTS A DROP IN AMPERAGE IT WILL DISABLE THE LINE VOLTAGE TO THE FRYER AND BROILER APPLIANCES.

## HOOD VENTILATION SYSTEM

IF THE HOOD VENTILATION SWITCH IS IN THE OPEN POSITION, THE HOOD VENTILATION SYSTEM CAN BE STARTED.

THE BROILER SYSTEM AND THE FRYER SYSTEM SHALL BE STARTED BY MOVING THE ON/OFF SWITCH TO THE ON POSITION. IF EITHER THE BROILER OR FRYER SWITCH IS IN THE ON POSITION, THE MAKE-UP AIR UNIT (IF APPLICABLE) SHALL START AUTOMATICALLY.

ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM SHALL DE-ENERGIZE THE MAKE UP AIR UNIT, ALL A/C UNITS, AND THE CONTROLLED COOKING EQUIPMENT. THE BROILER AND THE FRYER EXHAUST SYSTEM SHALL CONTINUE TO OPERATE. THE FIRE SUPPRESSION SYSTEM SHALL BE MANUALLY RESET.

## EXTERIOR LIGHTING CONTROL

ALL OF THE EXTERIOR LIGHTING SHALL BE CONTROLLED, WITH THE EXCEPTION OF THE SECURITY LIGHTS WHICH SHALL BE OPERATED BY ITS OWN PHOTOCELL. SECURITY LIGHTING IS OPTIONAL.

THE SIGNAGE SELECTOR SWITCH (3-POS.) CONTROLS THE PRIME SIGN, ALL MARQUEE SIGNS, AND BUILDING ACCENT LIGHTING.

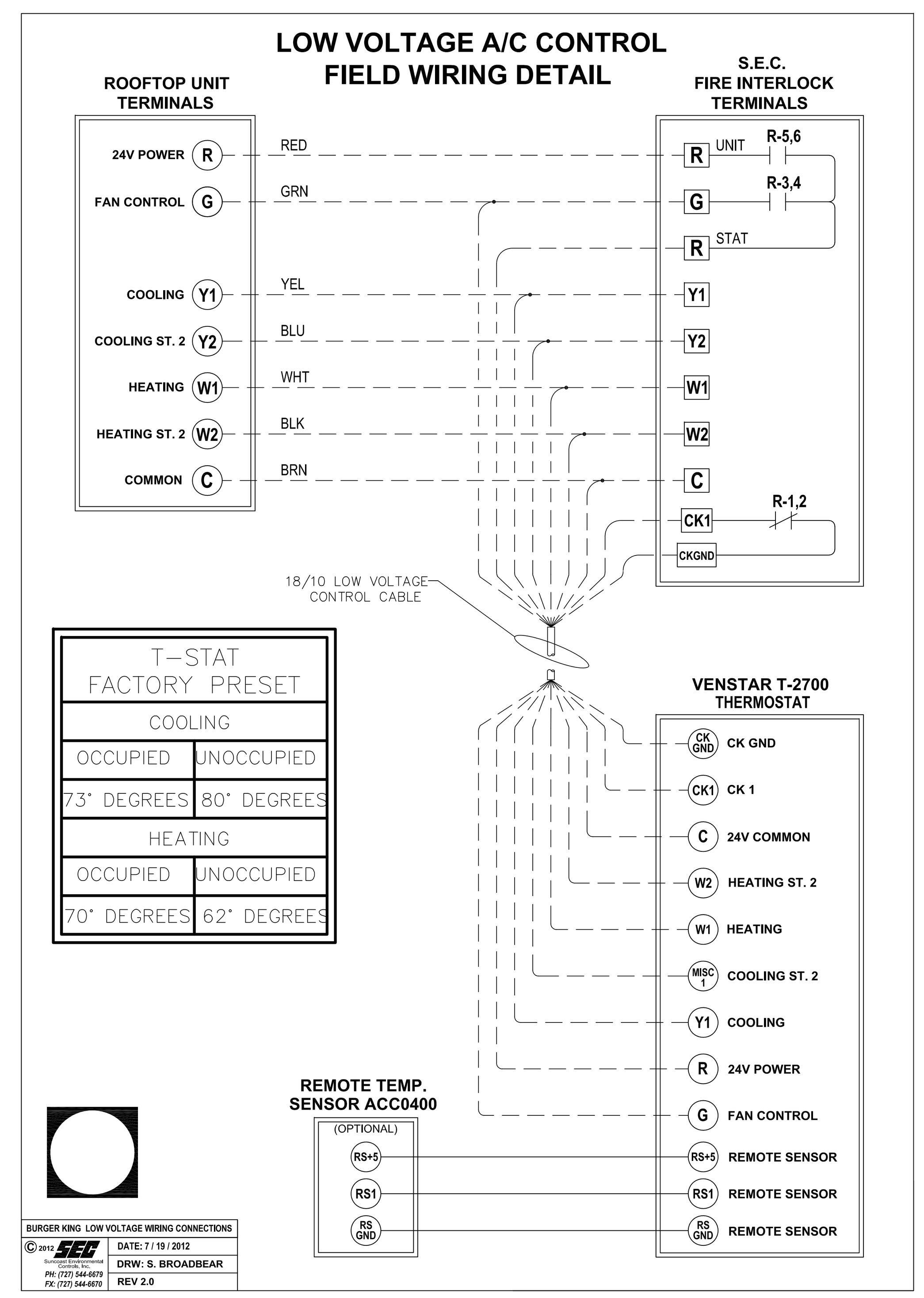
ON POSITION: LIGHTING SHALL BE ON PERMANENTLY.

OFF POSITION: LIGHTING SHALL BE OFF PERMANENTLY.

AUTO POSITION: LIGHTING SHALL BE CONTROLLED BY THE PHOTO CELL.

THE LOT LIGHTS THREE POSITION SWITCH WORKS THE SAME AS THE SIGNAGE SWITCH.

NOTE: UNOCCUPIED-OCCUPIED / MASTER RELAY PANEL SHALL BE COMPLETE WHEN SHIPPED TO THE JOB SITE. NO INTERNAL WIRING SHALL BE REQUIRED. MAKE ALL EXTERNAL WIRING CONNECTIONS AS REQUIRED.




## ELECTRICAL CONTRACTOR NOTES:

1. RUN 0NE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE "UNOCCUPIED-OCCUPIED" PANEL.
2. RUN 0NE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE "UNOCCUPIED-OCCUPIED" PANEL TO THE THERMOSTAT LOCATION.
3. RUN 0NE (10) CONDUCTOR 18 GAUGE THERMOSTAT CABLE FROM THE ROOFTOP AIR CONDITIONING UNIT TO THE NIGHT SETBACK THERMOSTAT LOCATION, IF NOT CONTROLLED WITH P-374-2700 T-STAT. REFER TO SHEET M-1
4. TERMINATION OF ALL 24 VOLT AIR CONDITIONING CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR.
5. ELECTRICAL CONTRACTOR SHALL RUN LINE VOLTAGE FROM THE CURRENT SENSOR LOCATED IN THE BROILER HOOD EXHAUST FAN TO THE CONTACTOR PANEL LOCATED BY THE SWITCHGEAR.

HVAC SYSTEM

N-C-A

CONSULTANTS / GROUP

NATIONAL CORPORATE ACCOUNT SERVICES, INC.

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**FOR SITE–SPECIFIC DESIGN, ARCHITECTS EMAIL REFLECTED CEILING PLAN, ELEVATIONS, KITCHEN PLANS, FLOOR PLAN, SITE PLAN, EXTERIOR ELEVATIONS, AND ROOF STRUCTURAL PLAN TO DESIGN@NCACONSULTANTS.COM**

**TO CONTACT THE NCA CONSULTANTS BY PHONE, CALL TOLL–FREE (877) 530–0078.**

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|---|---|---|
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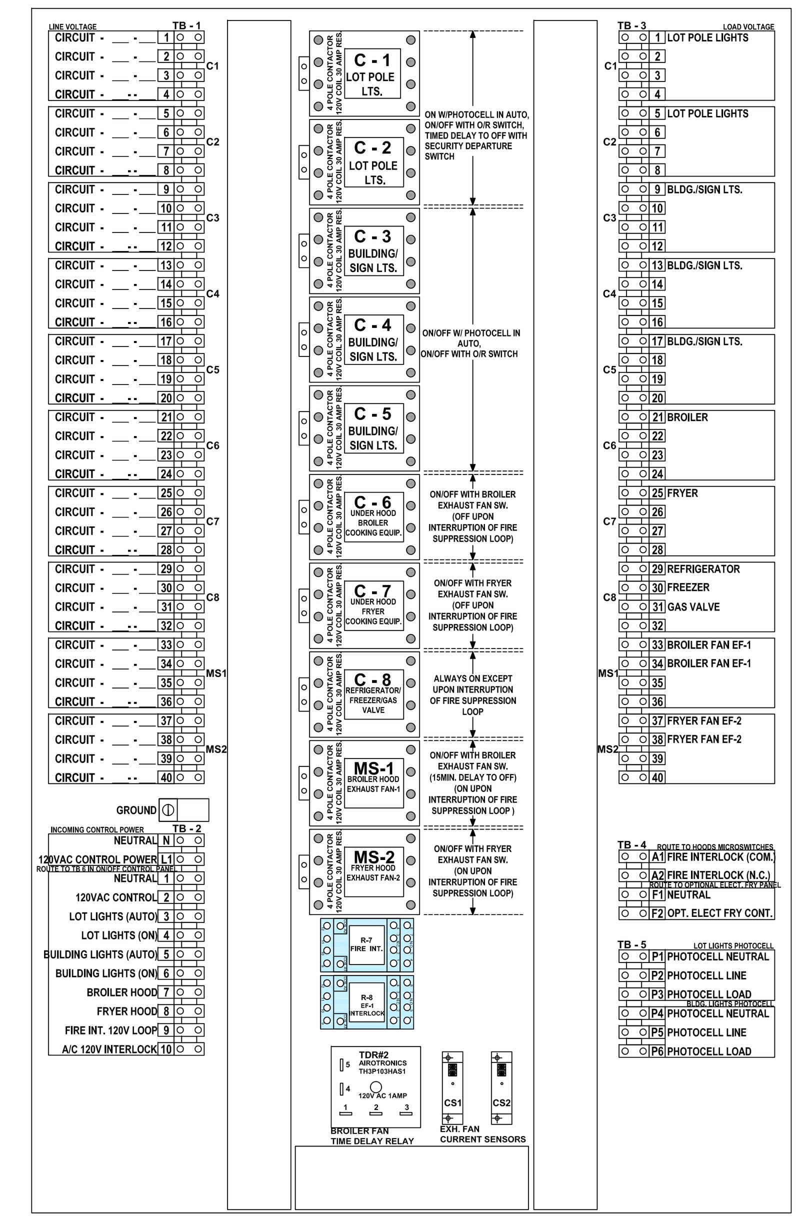


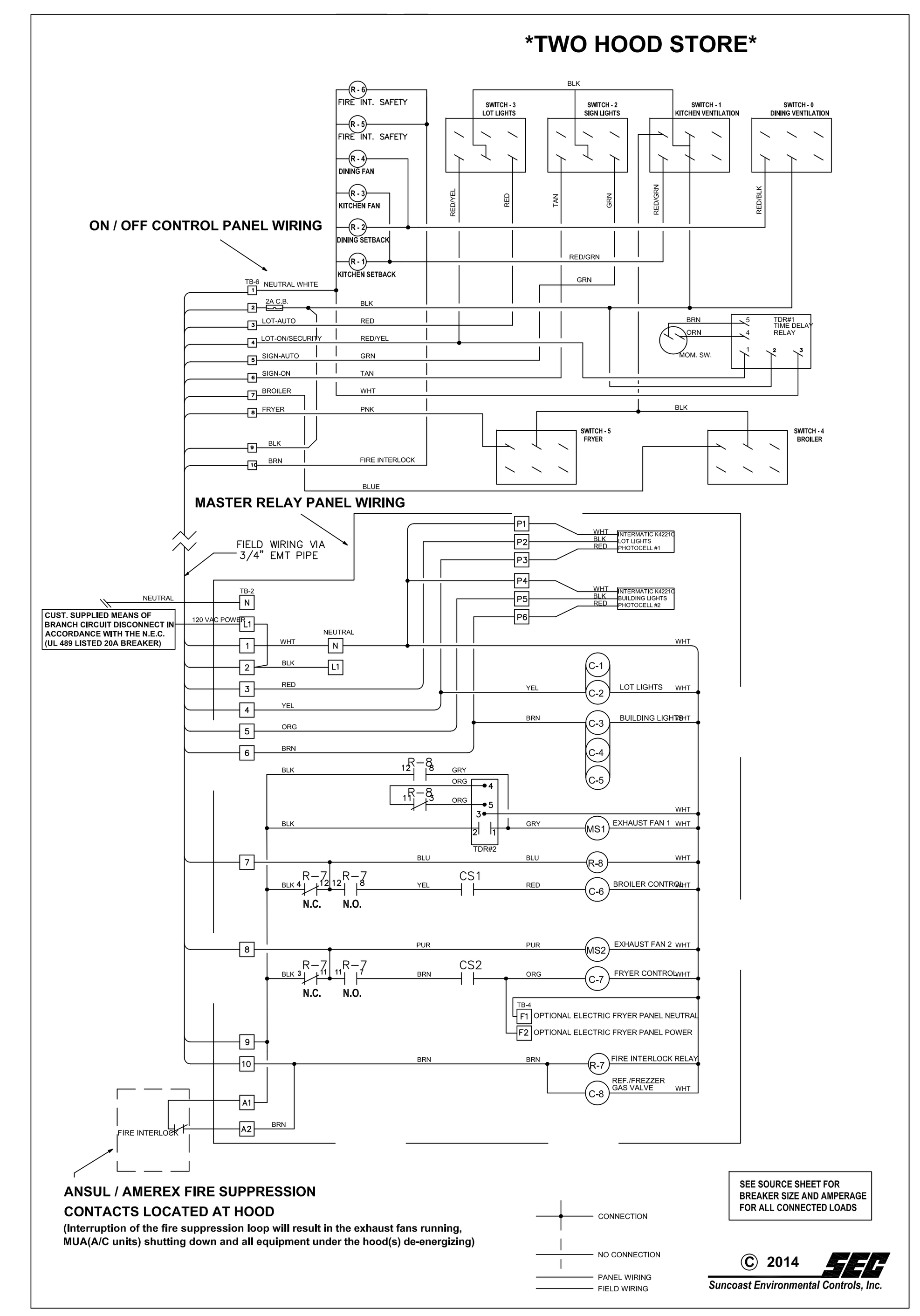


PANEL SCHEMATIC DIAGRAMS


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| No. | Date | By | Notes |
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Checked: SB

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Date: 08.02.21


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AZIZ S. BOU-MAROUN REGISTERED No. 910361 STATE OF INDIANA PROFESSIONAL ENGINEER

10.06.2022

PROJECT
BURGER KING
1440 NAPPANEE ST,
ELKHART, IN 46514

SHEET TITLE
MASTER CONTACTOR PANEL

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JOB # TG-21668

SHEET E-5