

BURGER KING

Frankfort

161 Arrowhead Court
Frankfort, Kentucky 40604

STORE #
-

ROC-40 TALL 20/20: November 2018
Downloaded: June 25, 2020

CONSTRUCTION SET

Issued: 03.14.22

Ampler Restaurant Group
1850 PARKWAY PLACE, # 1100
MARIETTA, GA. 30067

OWNER

Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
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STRUCTURAL

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M.E.P. ENGINEER

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214 Oceanside Drive, Nashville, TN 37204
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CIVIL ENGINEERS

INSIDE OUT LANDSCAPE DESIGN
100 Old Georgetown Road Frankfort, Kentucky
Phone: 502-695-7020

LANDSCAPE ARCHITECT

BUILDING DATA

ADOPTED CODES:	2018 KENTUCKY BUILDING CODE		
CONSTRUCTION:	GROUP A-2, TYPE V-B NON-SPRINKLED		
USE:	FOOD OR DRINK CONSUMPTION		
DESCRIPTION:	BURGER KING RESTAURANT		
LOT:	1.00 ACRE, MAP 86 PARCEL 017.11		
BUILDING SIZE:	RESTAURANT	2,830 sq. ft.	
PARKING:	REQUIRED:	24 SPACES	
	PROVIDED:	34 SPACES	
ACCESSIBLE PARKING:	REQUIRED:	2 SPACES	
	PROVIDED:	2 SPACES	

(SQUARE FOOTAGES ARE APPROXIMATE)

INTERIOR AREA & FIRE EXIT CALCULATIONS			
	Ratio	Subtotal	Rounded
905.8 sf Dining	15	60.4	61
49.1 sf Q-Line (Standing)	5	9.8	10
1,244.2 sf Kitchen	200	6.2	7
199.5 sf Storage	300	0.7	1
64.7 sf Office	100	0.6	1
125.5 sf Restrooms ("net")	0	0.0	0
47.1 sf Pathway ("net")	0	0.0	0
194.1 sf Perimeter Wall	0	0.0	0
2,830 sf Totals			80

Exit width = persons * 0.20" (IBC 1005.3.2)
Min number exits (IBC Table 1006.3.2)
2018 IBC Occupant Load - Table 1004.5

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78 TOTAL SHEETS

GENERAL NOTES

- ALL GYPSUM BOARD TO BE TYPE "X" FIRE RATED TO AFFORD ONE (1) HOUR CONSTRUCTION OR AS REQUIRED.
- WHEN REFERENCE IS MADE TO MATERIAL SYSTEM, ALL PARTS AND MATERIALS PERTINENT TO THE MANUFACTURER'S SYSTEM SPECIFIED SHALL BE FURNISHED AND INSTALLED.
- THIS PROJECT COMPLIES WITH THE "AMERICANS WITH DISABILITIES ACT", (ADA) - TO THE MAXIMUM EXTENT FEASIBLE.

ARCHITECTURAL SYMBOLS LEGEND

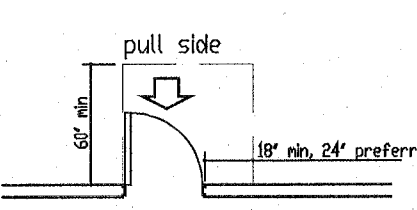
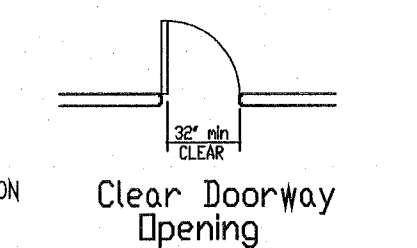
ROOM NAME # ROOM NUMBER	CASHIER	AREA ROOM NAME DESIGNATION
DRAWING TITLE	WORK 1.02	ROOM NAME ROOM NUMBER DRAWING NUMBER DRAWING TITLE
BUILDING SECTION KEY	1 3.1	FLOOR PLAN SCALE: 1/4" = 1'-0" DRAWING SCALE BUILDING SECTION NUMBER SHEET NO. BUILDING SECTION IS DRAWN
ENLARGED PLAN KEY	10 4.1	ENLARGED PLAN NUMBER SHEET NO. ENLARGED PLAN IS DRAWN AREA DRAWN ENLARGED
DETAIL KEY	10 4.1	DETAIL NUMBER SHEET NUMBER DETAIL IS DRAWN AREA WHICH IS DETAIL
DOOR NUMBER	110	
WALL TYPE	A	
ELEVATION NOTATION	34.50	

CONTRACTOR IS REQUIRED TO PROVIDE THE FOLLOWING A.D.A. REQUIREMENTS:

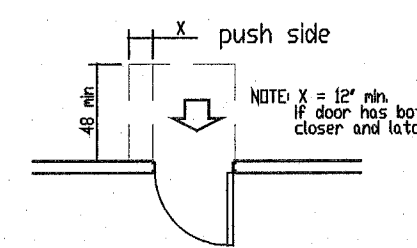
- ACCESSIBLE FACILITIES
- (17)(b) PUBLIC TELEPHONES: ACCESSIBLE TELEPHONES TO BE EQUIPPED WITH A VOLUME CONTROL.
- ACCESSIBLE ROUTE
- SLOPE: MAXIMUM RUNNING SLOPE NOT TO EXCEED 1:20 SLOPE W/ MAXIMUM CROSS SLOPE OF 1:48
- CHANGES IN LEVELS: MAXIMUM CHANGE IN LEVEL IS 1/2"
- PARKING & PASSENGER LOADING ZONES
- PARKING SPACES: 9 FOOT WIDE SPACES, 5 FOOT ACCESS AISLES - MAX. GROUND SURFACE SLOPE = 2% IN ANY DIRECTION
- SIGNAGE: VERTICAL SIGNAGE TO BE PROVIDED - REF. DETAILS, SHEET 1.2
- DOORS
- THRESHOLDS AT DOORWAYS: 1/2" MAX. BEVELED W/ 1/2" MAX. SLOPE
- DOOR HARDWARE: HARDWARE SHALL BE MOUNTED NO HIGHER THAN 48" & NO LOWER THAN 34" ABOVE FIN. FL.
- DOOR CLOSERS: SWEEP PERIOD OF CLOSER SHALL BE ADJUSTED 50 FROM AN OPEN POSITION OF 90 DEGREES, THE DOOR WILL TAKE A MIN. OF 5 SECONDS TO MOVE TO A POINT 12 DEGREES FROM THE LATCH (MEASURED TO THE LEADING EDGE OF THE DOOR)
- DOOR OPENING FORCE: INTERIOR HINGED DOORS = 5 LBF (22.2N), FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMA. AUTHORITY
- ENTRANCES
- MINIMUM NUMBER: ALL ENTRANCES TO BE LEVEL. MAX. SLOPE TO BE 1:48 (1/4 INCH PER FOOT).
- WATER CLOSETS
- CLEAR FLOOR SPACE: FRONT APPROACH TO HAVE MIN. CLEAR FLOOR SPACE OF 48 INCHES WIDE BY 66 INCHES DEEP
- SIDE APPROACH TO HAVE MIN. CLEAR FLOOR SPACE OF 48 INCHES WIDE BY 56 INCHES DEEP
- BOTH SIDE AND FRONT APPROACH TO HAVE A MIN. CLEAR FLOOR SPACE OF 60 INCHES WIDE BY 56 INCHES DEEP
- HEIGHT: 17 TO 19 INCHES A.F.F. TO TOP OF SEAT, 18 INCHES ON CENTER OF FIXTURE FROM SIDE WALL/PARTITION
- GRAB BARS: ALL ACCESSIBLE WATER CLOSETS TO HAVE 36 INCH REAR BAR MOUNTED 6" FROM THE CORNER AND A 42 INCH SIDE BAR MOUNTED 12" FROM THE CORNER, 33 TO 36 INCHES A.F.F. TO TOP OF BAR
- LAVATORIES AND MIRRORS
- HEIGHT AND CLEARANCES: 34 INCHES A.F.F. TO TOP, 27 INCH KNEE CLEARANCE
- CLEAR FLOOR SPACE: 30 INCHES BY 48 INCHES PROVIDED IN FRONT OF LAVATORY
- EXPOSED PIPES AND SURFACES: EXPOSED PIPES TO BE INSULATED
- FAUCETS: ACCESSIBLE FAUCETS (IF NOT AUTOMATIC) TO BE LEVER-OPERATED WITH A MAXIMUM FORCE TO OPERATE OF 5 LBF.
- MIRRORS: ACCESSIBLE MIRRORS SHALL BE MOUNTED W/ BOTTOM EDGE OF REFLECTING SURFACE MAX. 40 INCHES A.F.F. AND A MIN. OF 74 INCHES A.F.F.
- SINKS
- HEIGHT: (IF COUNTER TOPS SPECIFIED) COUNTER HEIGHT 34 INCHES
- KNEE CLEARANCE: MIN. 27 INCHES HIGH BY 30 INCHES WIDE, AND 19 INCHES DEEP TO BE PROVIDED UNDERNEATH SINKS
- DEPTH: MAX. DEPTH OF ACCESSIBLE SINKS IS 6 1/2 INCHES
- GRAB BARS
- SIZE & SPACING: THE NOMINAL DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A HANDRAIL OR GRAB BAR SHALL BE 1 1/4 INCH TO 1 1/2 INCH
- THE SPACE BETWEEN THE WALL & THE GRAB BARS SHALL BE 1 1/2"
- STRUCTURAL STRENGTH: BENDING STRESS IN A GRAB BAR, (INDUCED BY THE MAX. BENDING MOMENT FROM THE APPLICATION OF 250 LBF) SHALL BE LESS THAN THE ALLOWABLE STRESS FOR THE MATERIAL OF THE GRAB BAR OR SEAT
- SHEAR STRESS (INDUCED IN A GRAB BAR BY THE APPLICATION OF 250 LBF) SHALL BE LESS THAN THE ALLOWABLE SHEAR STRESS FOR THE MATERIAL OF THE GRAB BAR. IF THE CONNECTION BETWEEN THE GRAB BAR SUPPORT IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
- SHEAR FORCE (INDUCED IN A FASTENER OR MOUNTING DEVICE FROM THE APPLICATION OF 250 LBF) SHALL BE LESS THAN THE ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD
- TENSILE FORCE (INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 LBF PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 LBF) SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE
- GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS
- CONTROLS AND OPERATING MECHANISMS
- HEIGHT: THE HIGHEST OPERABLE PART OF CONTROLS, DISPENSERS, RECEPTACLES, & OTHER OPERABLE EQUIPMENT SHALL BE PLACED WITHIN THE FOLLOWING REACH RANGES:
FORWARD = MAX. HIGH FORWARD REACH IS 48 INCHES
= MIN. LOW FORWARD REACH IS 15 INCHES
= OVER OBSTRUCTIONS (34 INCH MAX. A.F.F.) DEPTH OF REACH SHALL BE 25 INCHES OR LESS AND HEIGHT OF REACH SHALL BE 44 INCHES MAX.
SIDE = MAX. HIGH SIDE REACH IS 48 INCHES
= MIN. LOW SIDE REACH IS 15 INCHES
= OVER OBSTRUCTIONS (34 INCH MAX. A.F.F.) DEPTH OF REACH SHALL BE 24 INCHES OR LESS AND HEIGHT OF REACH SHALL BE 46 INCHES MAX.
ELECTRICAL & COMMUNICATIONS SYSTEMS RECEPTACLES ON WALLS SHALL BE MOUNTED NO LESS THAN 15 INCHES A.F.F. (TO BOTTOM / LOWEST OUTLET)
- THESE REQUIREMENTS DO NOT APPLY WHERE THE USE OF SPECIAL EQUIPMENT DICTATES OTHERWISE OR WHERE ELECTRICAL & COMMUNICATIONS SYSTEMS RECEPTACLES ARE NOT NORMALLY INTENDED FOR USE BY BUILDING OCCUPANTS
- SIGNAGE - (OWNER FURNISHED & INSTALLED)
- LETTERS & NUMERALS: BASED 1/32 INCH UPPER CASE, SANS SERIF TYPE AND ACCOMPANIED W/ GRADE 2 BRAILLE, BASED CHARACTERS AT LEAST 5/8 INCH HIGH, BUT NO HIGHER THAN 2 INCHES. PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 INCHES MIN. IN HEIGHT
- MOUNTING LOCATIONS & HEIGHT: WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS & SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 INCHES A.F.F. TO CENTERLINE OF SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 INCHES OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF DOOR
- TELEPHONES - (OWNER FURNISHED & INSTALLED)
- CLEAR FLOOR OR GROUND SPACE: PROVIDE CLEAR FLOOR OR GROUND SPACE, MIN. 30" BY 48" AT ACCESSIBLE TELEPHONES, "CENTERED ON THE ELEMENT IT SERVES"
- MOUNTING HEIGHT: THE HIGHEST OPERABLE PART OF THE TELEPHONE SHALL BE WITHIN THE FOLLOWING REACH RANGES:
FORWARD = MAX. HIGH FORWARD REACH IS 48 INCHES
= MIN. LOW SIDE REACH IS 15 INCHES
= OVER OBSTRUCTIONS (34 INCHES MAX. A.F.F.) DEPTH OF REACH SHALL BE 25 INCHES OR LESS & HEIGHT OF REACH SHALL BE 44 INCHES MAX.
SIDE = MAX. HIGH SIDE REACH IS 54 INCHES
= MIN. LOW SIDE REACH IS 9 INCHES
= OVER OBSTRUCTIONS (34 INCHES MAX. A.F.F.) DEPTH OF REACH SHALL BE 24 INCHES OR LESS & HEIGHT OF REACH SHALL BE 46 INCHES MAX.
- PROTRUDING OBJECTS: OBJECTS PROJECTING FROM WALLS (TELEPHONES) WITH THEIR LEADING EDGES BETWEEN 27 AND 80 INCHES ABOVE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4 INCHES INTO WALKS, HALLS, CORRIDORS, PASSAGeways, OR AISLES. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 INCHES ABOVE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT. FREE-STANDING OBJECTS MOUNTED ON POSTS OR PLONGS MAY OVERHANG 12 INCHES FROM 27 TO 80 INCHES ABOVE THE GROUND OR FINISHED FLOOR. PROTRUDING OBJECTS SHALL NOT REDUCE THE CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
- HEARING AND COMPATIBLE & VOLUME: (1) ACCESSIBLE TELEPHONES SHALL BE HEARING AND COMPATIBLE. (2) VOLUME CONTROLS CAPABLE OF A MINIMUM OF 12 dbA AND A MAXIMUM OF 18 dbA ABOVE NORMAL SHALL BE PROVIDED.
- CONTROLS: ACCESSIBLE TELEPHONES SHALL HAVE PUSHBUTTON CONTROLS WHERE SERVICE FOR SUCH EQUIPMENT IF AVAILABLE
- TELEPHONE BOOKS: IF BOOKS PROVIDED, LOCATE WITHIN REACH RANGES LISTED ABOVE
- CORD LENGTH: THE CORD FROM THE TELEPHONE TO THE HANDSET SHALL BE AT LEAST 29 INCHES LONG
- FIXED OR BUILT-IN SEATING AND TABLES
- COUNTER, REQUIRE ONE 36" MIN. LONG SECTION OF COUNTER TO BE 34" A.F.F. MAX. TO TOP SURFACE
- ACCESSIBLE SEATING: MIN. 5% OF FIXED SEATING TO BE ACCESSIBLE (NOT LESS THAN ONE) - PROVIDE CLEAR FLOOR SPACE OF 30 INCHES BY 48 INCHES - CLEAR FLOOR SPACE SHALL NOT OVERLAP KNEE SPACE BY MORE THAN 19 INCHES
- KNEE CLEARANCES: PROVIDE KNEE SPACE OF MIN. 27 INCHES HIGH BY 30 INCHES WIDE AND 19 INCHES DEEP
- TABLE HEIGHT: TOPS OF ACCESSIBLE TABLES AND COUNTERS SHALL BE FROM 28 INCHES TO 34 INCHES A.F.F.
- RESTAURANTS, CAFETERIAS, SNACK BARS, & VENDING AREAS
- TABLEWARE AND CONTAINER AREAS: SELF-SERVICE SHELVES AND DISPENSING DEVICES SHALL HAVE A MAXIMUM REACH OF 48" WITH A SIDE APPROACH, WITH A MAXIMUM COUNTER HEIGHT OF 34 INCHES
- SALES AND SERVICE COUNTERS
- COUNTERS WITH CASH REGISTERS: PROVIDE A MIN. OF ONE AREA OF THE COUNTER WHICH IS AT LEAST 36 INCHES IN LENGTH WITH A MAXIMUM HEIGHT OF 36 INCHES ABOVE FINISHED FLOOR.



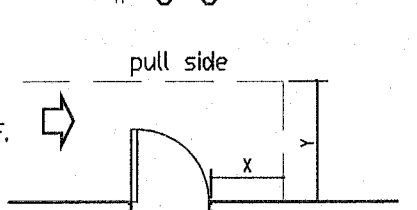
GENERAL ACCESSIBILITY STANDARDS
ADDITIONAL ACCESSIBILITY STANDARDS MAY APPLY



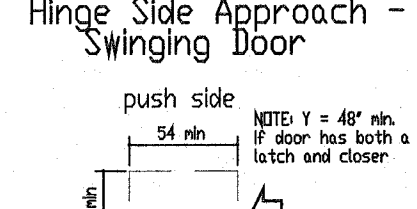
Front Approach -
Swinging Door



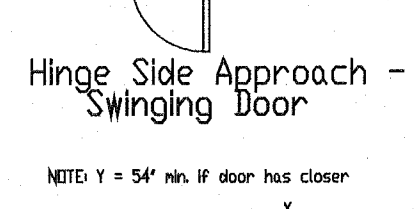
Front Approach -
Swinging Door



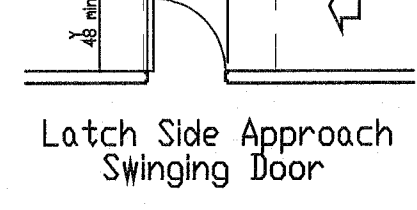
Hinge Side Approach -
Swinging Door



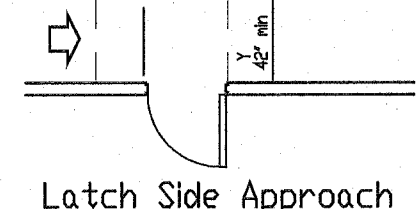
Hinge Side Approach -
Swinging Door



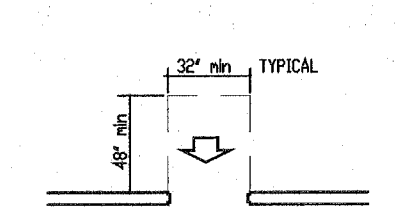
Latch Side Approach -
Swinging Door



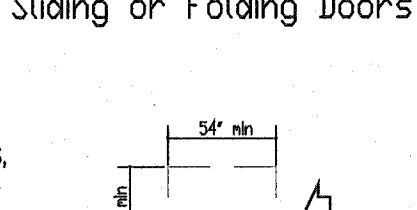
Latch Side Approach -
Swinging Door



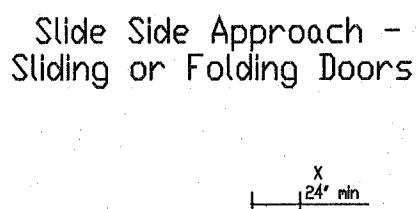
Latch Side Approach -
Swinging Door



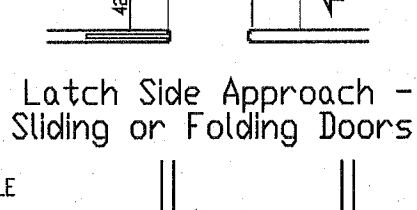
Front Approach -
Sliding or Folding Doors



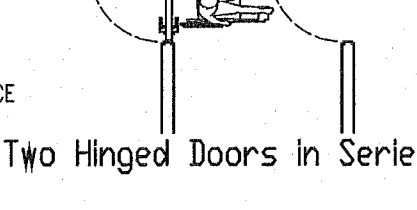
Front Approach -
Sliding or Folding Doors



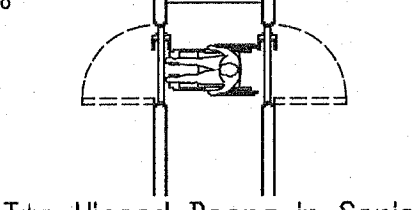
Slide Side Approach -
Sliding or Folding Doors



Latch Side Approach -
Sliding or Folding Doors



Two Hinged Doors in Series



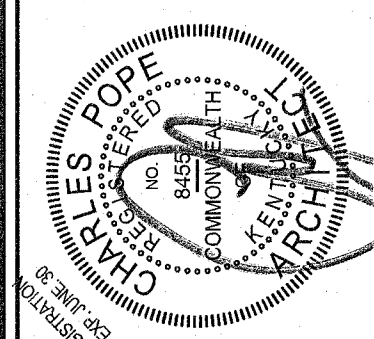
Two Hinged Doors in Series

REVISIONS:

COVER SHEET



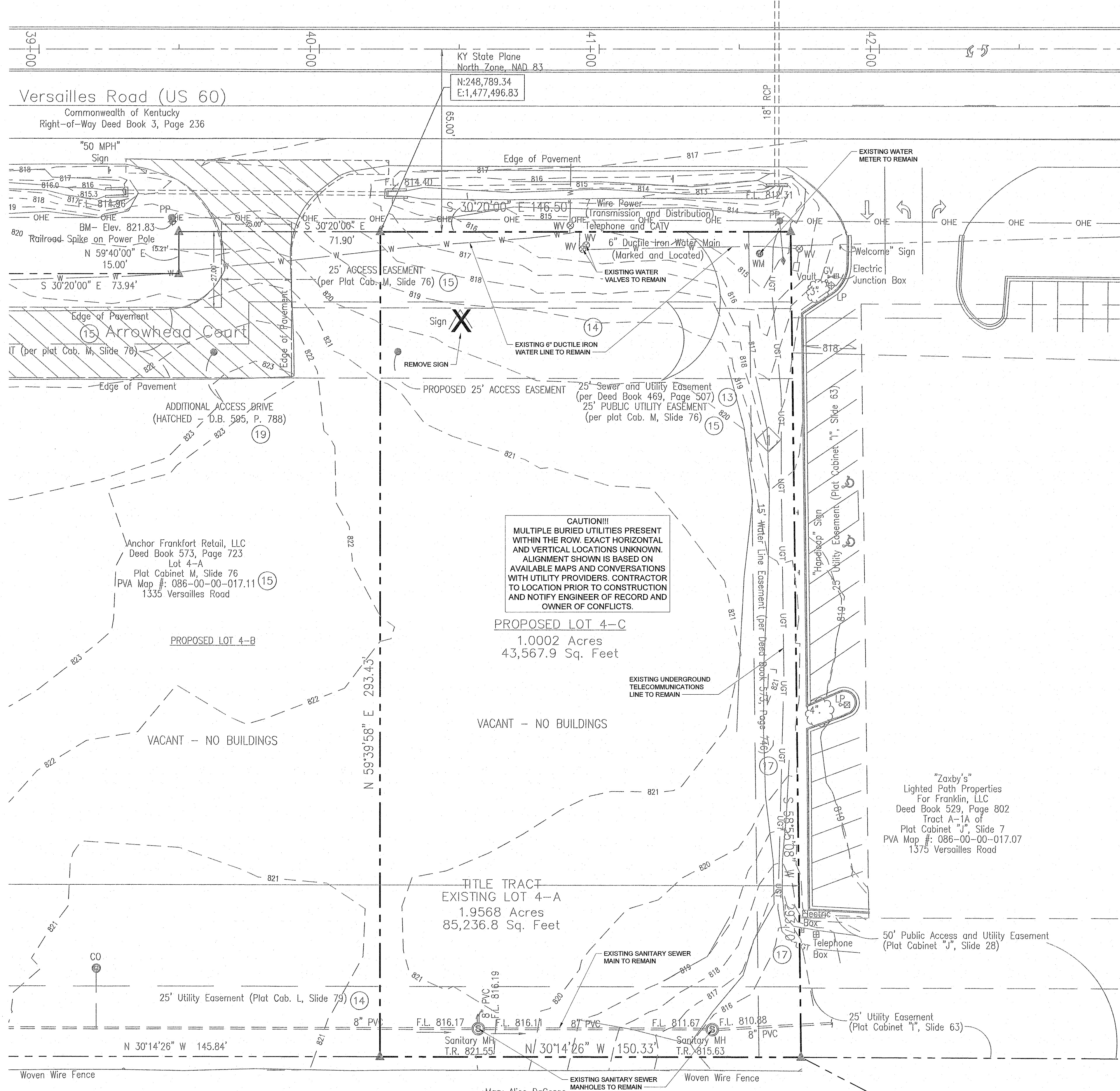
MAR 1 4 2022



Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 03.14.22
JOB NO: 44387
DRAWN BY: [Signature]
SHEET NUMBER: 0.1
OF

Drawing name: W:\\kyle-horn.com\\img_nash\\811\\DEMOLITION SITE PLAN.dwg 1:10 DEMOLITION SITE PLAN Dec 23, 2021 2:38pm by: Madison Molosio
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DEMOLITION LEGEND

X	REMOVE OBJECT
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EXISTING UTILITIES NOTE

CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.

ADVISORY NOTES

- KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS DEMOLITION PLAN SIMPLY INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACTS THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE. KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT THE UTILITIES SHOWN CAN BE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING HIS OWN SITE RECONNAISSANCE TO SCOPE HIS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED DEVELOPMENT. REMOVAL OR PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW ANY AVAILABLE REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN.
- CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
- KIMLEY-HORN AND ASSOCIATES, INC. DOES NOT WARRANT OR REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE.

BENCHMARK LIST

THE BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON KENTUCKY STATE PLANE GRID NORTH, KENTUCKY STATE PLANE NORTH ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83). PARTICULARLY, THE BEARINGS AND COORDINATES ARE BASED ON A GNSS SURVEY UTILIZING A TRIMBLE R6 GNSS RECEIVER AND THE KYTC VRS SYSTEM.

THE ELEVATIONS SHOWN HEREON ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. PARTICULARLY, THE ELEVATIONS ARE BASED ON A GNSS SURVEY UTILIZING A TRIMBLE R6 GNSS RECEIVER AND THE KYTC VRS SYSTEM.

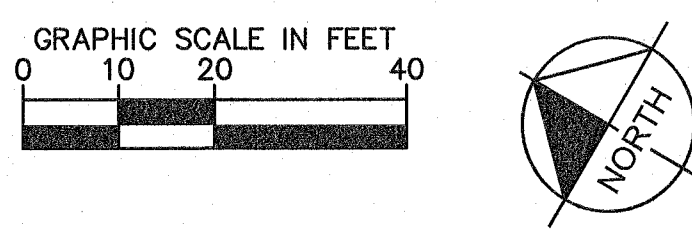
- NOTES**
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF FRANKFORT AND FRANCHISED UTILITY COMPANIES TO MAINTAIN SERVICES AT ALL TIMES TO NEIGHBORING PROPERTIES. THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS INDICATING HOW THE WASTE FROM THE SITE HAS BEEN HANDLED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS IN THE GEOTECHNICAL REPORT. THE SITE, AFTER DEMOLITION SHALL BE GRADED TO ELIMINATE DEPRESSIONS, HOLES, BERMS, DIRT PILES, ETC. THE SITE IS TO BE GRADED UNTIL RELATIVELY SMOOTH AND ATTRACTIVE IN APPEARANCE PRIOR TO STABILIZATION OF EARTH. ANY FILL MATERIAL/FILL AREAS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT A MOISTURE AT, OR ABOVE, OPTIMUM MOISTURE CONTENT IN MAXIMUM 8" LIFTS. CONTRACTOR SHALL PROVIDE PROOF IN THE FORM OF LAB TEST KITS THAT THIS HAS BEEN ACHIEVED.
 - THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THE PHASE I ENVIRONMENTAL SITE ASSESSMENT.
 - LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL 811 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. THE CONTRACTOR BEARS SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGE DONE TO THESE FACILITIES.
 - ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS WERE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE DONE BEFORE THEY COMMENCE ANY WORK IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PROVIDE 72 HOURS MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
 - THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, SPECIFICATIONS AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, AND EROSION CONTROL PLANS.
 - ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER WAS NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
 - CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DEVICES FOR ANY STREET WORK.
 - THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE DEVELOPER IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
 - CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., ACCORDING TO STANDARD BEST PRACTICES.
 - PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES AROUND THE SITE PERIMETER ARE TO BE INSTALLED.
 - DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH ALL REGULATIONS GOVERNING THE DEMOLITION, REMOVAL, TRANSPORTATION AND DISPOSAL OF ALL DEMOLITION DEBRIS.
 - CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.
 - ANY RECYCLED MATERIAL TO BE STOCKPILED ON THE SITE SHALL BE STORED IN AS SMALL AN AREA AS PRACTICABLE AND THE LOCATION OF ANY STOCKPILE SHALL BE WELL CLEAR OF THE BUILDING PAD AREA AND THE LOCATION MUST BE PRE-APPROVED BY THE OWNER PRIOR TO STOCKPILING.
 - FILL MATERIAL SHALL BE PLACED IN ACCORDANCE WITH THE GEOTECH REPORT.

Conservation Easement (per Deed Book 510, Page 677) Mary Alice DaCosse
Approximately 86.6 Acres (Not Surveyed)
Deed Book 573, Page 728
Deed Book 588, Page 774
PVA Map #: 086-00-00-017.00
1335 Versailles Road



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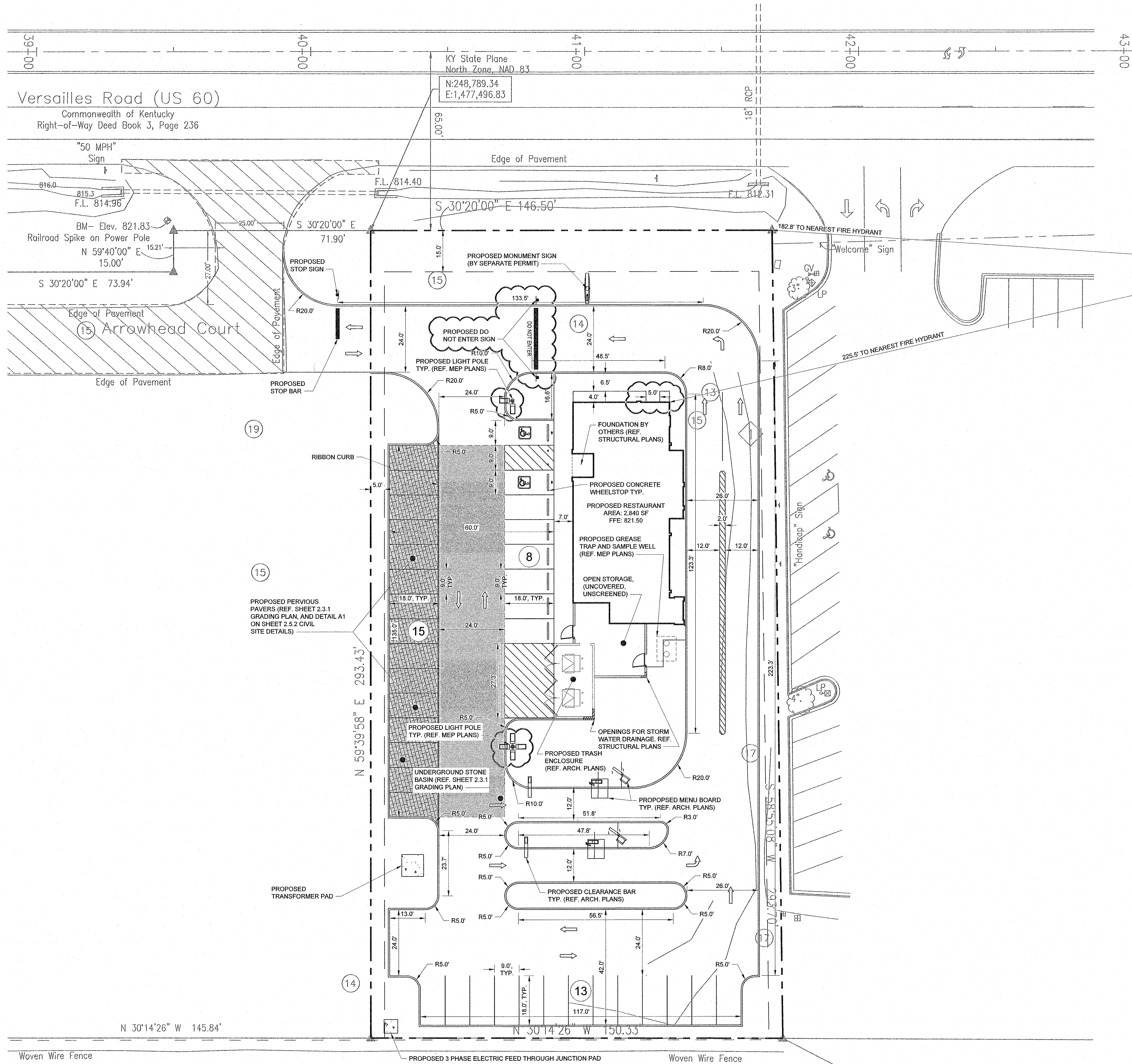
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JOB NO: 118423003
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Drawing name: \\kimley-horn.com\usa_nash\NSH_LDEV118423003 - burger king - frankfort.ky\CADD\plansheets\C2-20 SITE LAYOUT - OVERALL.dwg 2.1.1 SITE PLAN (DIMENSION CONTROL PLAN) Feb 07, 2022 5:04pm by: Madison Moloso
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SITE LAYOUT NOTES

1. ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY/COUNTY/STATE REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
2. ALL DIMENSIONS AND RADII ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED OR RELOCATED AS NECESSARY. ALL COST SHALL BE INCLUDED IN BASE BID.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, (UNLESS OTHERWISE NOTED ON PLANS) INCLUDING BUT NOT LIMITED TO ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES REQUIREMENTS AND SHALL BE APPROVED BY SUCH. ALL COST SHALL BE INCLUDED IN BASE BID.
5. SITE BOUNDARY, TOPOGRAPHY, UTILITY AND ROAD INFORMATION TAKEN FROM SURVEY PROVIDED ON SHEET 1.1 DEMOLITION SITE PLAN.
6. ALL PROPOSED UTILITY CONNECTIONS SHALL BE FIELD VERIFIED AND SUBJECT TO CHANGE PER UTILITY DISTRICT REQUEST.
7. ALL TRAFFIC CONTROL SIGNS AND PAVEMENT MARKING WILL COMPLY WITH THE MOST RECENT MUTCD STANDARDS.
8. ALL DEVELOPMENT WITHIN THE BOUNDARIES OF THIS PLAN MEETS THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT. ADA: <http://www.ada.gov/>
9. CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
10. ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT VERSION OF SPECIFICATIONS PROVIDED BY AMPLER RESTAURANT GROUP.

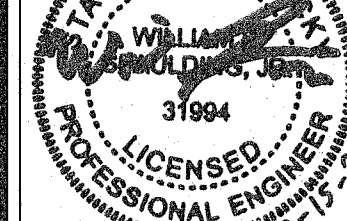
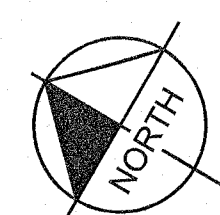
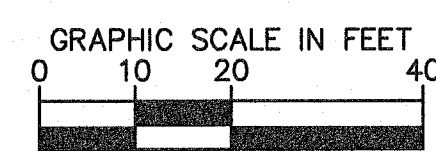
PAVING NOTES

1. EXPANSION JOINTS SHOULD BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENT SUBJECT TO DIFFERENT MAGNITUDE OF MOVEMENT, E.G., LIGHT POLES, RETAINING WALLS, EXISTING PAVEMENT, STAIRWAYS, ENTRYWAY PIERS, BUILDING WALLS, OR MANHOLES.
2. WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE INVERTED GUTTER PITCH. REFER TO SHEET 2.3.1 GRADING PLAN.

SITE DATA TABLE

SITE ADDRESS	161 ARROWHEAD COURT FRANKFORT, KY, 40601	
TAX MAP	MAP 96 PARCEL 017.11	
OVERALL AREA	EXISTING	PROPOSED
SITE AREA	1.00 AC	1.00 AC
DISTURBED AREA	N/A	0.96 AC
IMPERVIOUS AREA	0.00 AC	0.70 AC
PERVIOUS AREA	1.00 AC	0.30 AC
LOT DATA	REQUIRED	PROVIDED
MINIMUM LOT SIZE	N/A	1.00 AC
MINIMUM LOT WIDTH	65 FT	146.50 FT
MAXIMUM LOT COVERAGE	40%	6.52%
BUILDING DATA	REQUIRED	PROVIDED
BUILDING FLOOR AREA	N/A	2840 SF
MAXIMUM BUILDING HEIGHT	N/A	24 FT
BUILDING SETBACKS	REQUIRED	PROVIDED
FRONT: NORTHEAST	30 FT	62 FT
REAR: SOUTHWEST	N/A	150 FT
SIDE: NORTHWEST	10 FT	73 FT
SIDE: SOUTHEAST	10 FT	33 FT
PARKING	REQUIRED	PROVIDED
TOTAL STANDARD PARKING SPACES	24	34
ACCESSIBLE SPACES	2	2

PERMIT SET



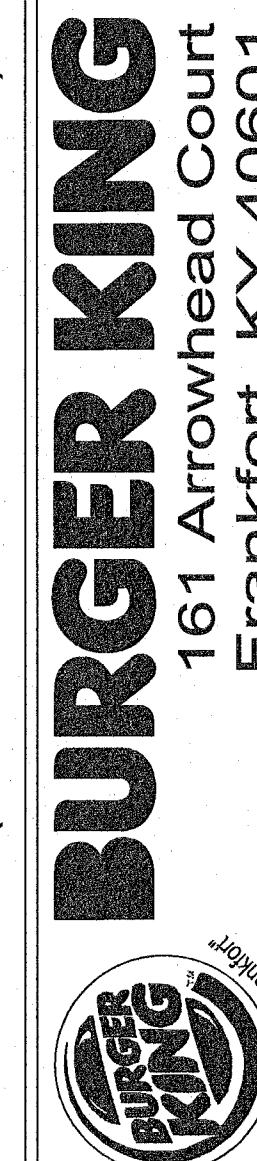
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SITE PLAN (DIMENSION CONTROL PLAN)

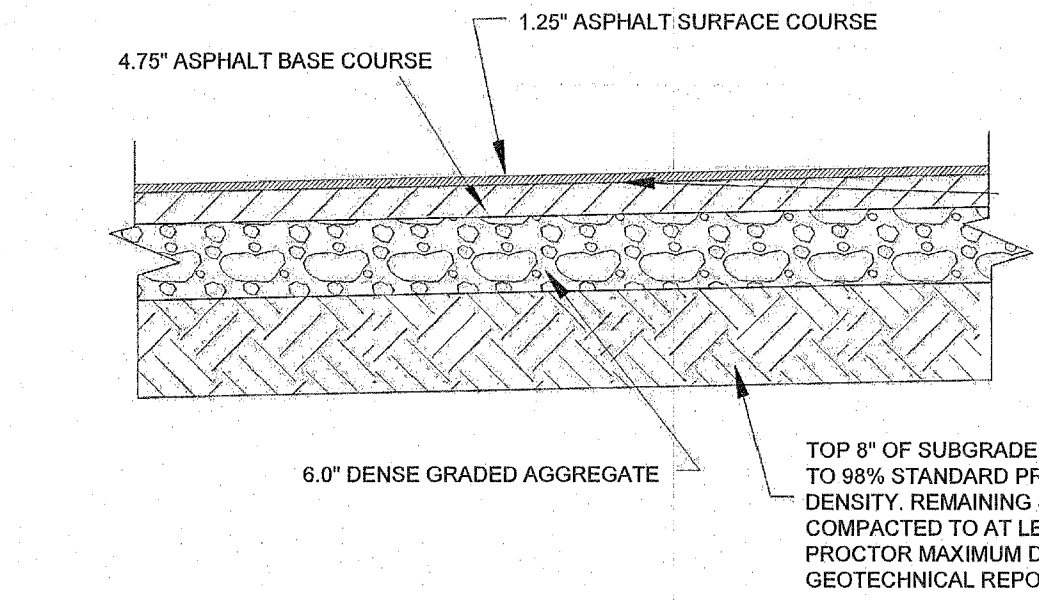
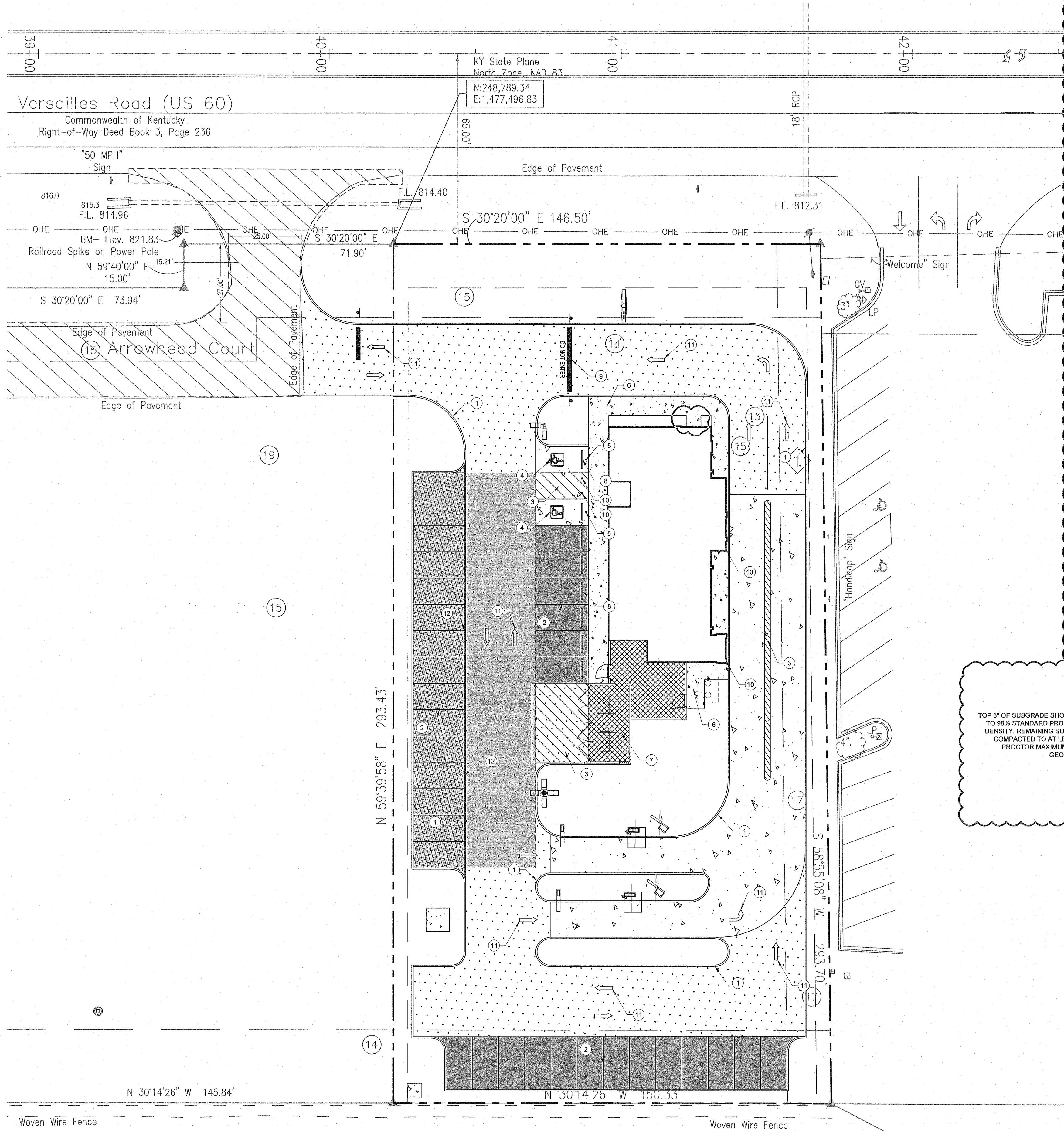


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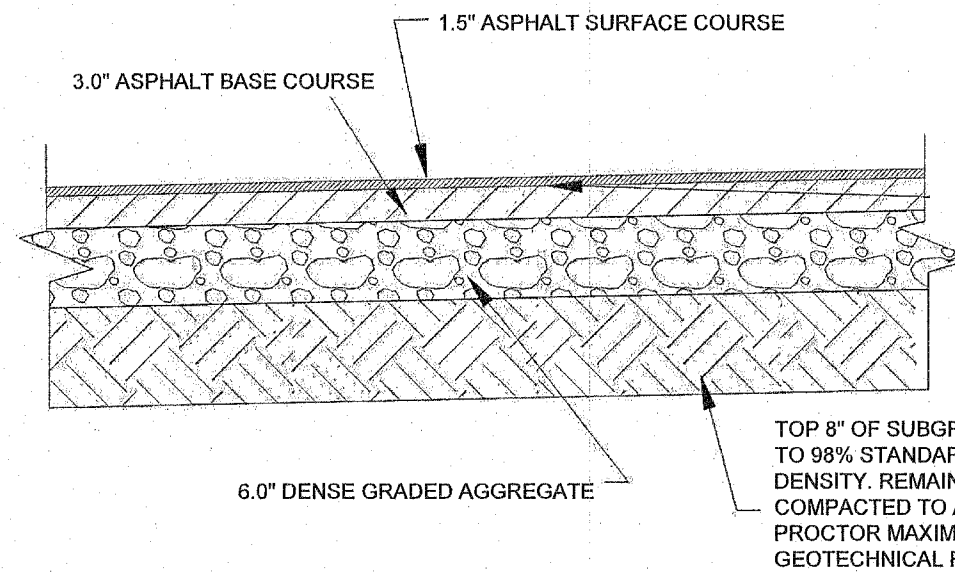
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STORM LINE UPDATES

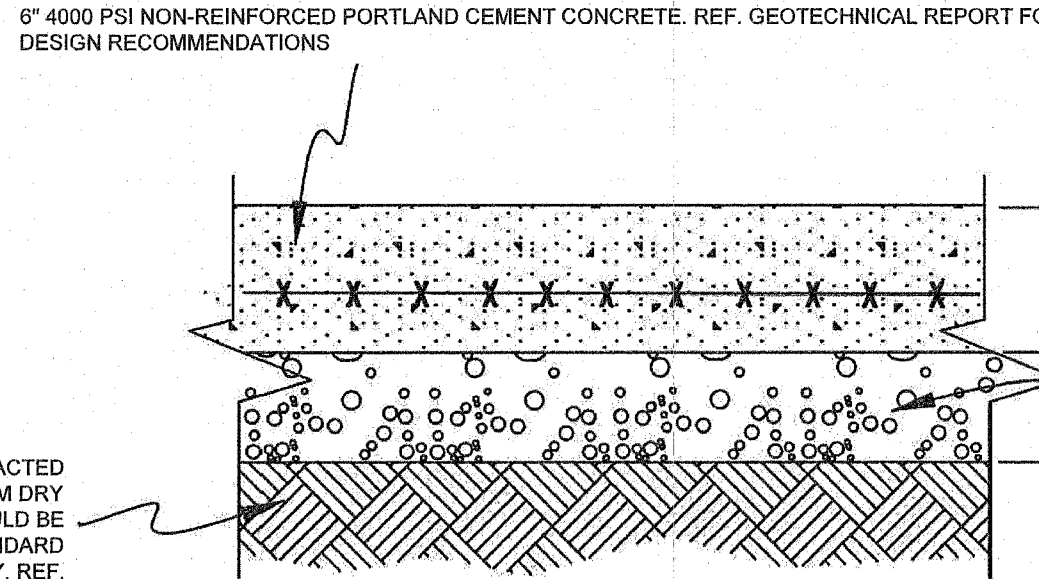
Drawing name: \\wiley-horn.com\SE - NSHNSH - LDEV118423003 - burger king - frankfort\ky4-CADD\plansheets\20 PAVING PLAN.dwg 2.1.2 PAVING PLAN Feb 07, 2022 8:04pm by: Madison Motiso
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HEAVY-DUTY ASPHALT PAVEMENT SECTION
N.T.S.



LIGHT-DUTY ASPHALT PAVEMENT SECTION
N.T.S.



CONCRETE PAVEMENT SECTION
N.T.S.

PAVING PLAN NOTES

1. REFERENCE GEOTECHNICAL REPORT FOR ADDITIONAL PAVING AND SOIL PREPARATION NOTES.
2. REFERENCE MEP PLANS FOR CONDUIT SIZES AND LOCATIONS UNLESS OTHERWISE NOTED ON THIS SHEET.
3. ISOLATION JOINTS SHOULD BE USED WHEREVER THE PAVEMENT WILL ABUT A STRUCTURAL ELEMENTS SUBJECT TO DIFFERENT MAGNITUDE OF MOVEMENT, E.G., LIGHT POLES, RETAINING WALLS, EXISTING PAVEMENT, STAIRWAYS, ENTRYWAY PIERS, BUILDING WALLS, OR MANHOLES.
4. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
5. WHEN NATURAL FLOW OF DRAINAGE IS AWAY FROM CURB, CONTRACTOR TO INSTALL REVERSE/INVERTED GUTTER PITCH. REFER TO SHEET 2.3.1 GRADING PLAN.
6. REFERENCE DIMENSION CONTROL PLAN ON SHEET 2.1.1 FOR CURB RADIUS AND LAYOUT INFORMATION.

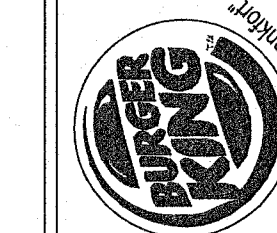
HATCH LEGEND

- | | |
|--|--|
| | PROPOSED SIDEWALK |
| | PROPOSED HEAVY-DUTY ASPHALT PAVEMENT |
| | PROPOSED LIGHT-DUTY ASPHALT PAVEMENT |
| | PROPOSED CONCRETE PAVEMENT |
| | PROPOSED RIBBON CURB |
| | PROPOSED STRUCTURAL SLAB (REF. STRUCTURAL PLANS) |
| | PROPOSED PERVIOUS PAVERS. SEE DETAIL A1 ON SHEET 2.5.2 CIVIL SITE DETAILS |
| | PROPOSED UNDERGROUND STONE BASIN |
| | PROPERTY LINE |
| | REQUIRED PARKING AND SIGNAGE SETBACK |
| | PROPOSED 6\"/> |
| | 4\"/> |
| | 4\"/> |
| | ACCESSIBLE PARKING SYMBOL |
| | ACCESSIBLE PARKING SIGN |
| | ON-SITE CONCRETE SIDEWALK |
| | TRASH ENCLOSURE (REF. ARCH. PLANS FOR DETAILS) |
| | CONCRETE WHEELSTOP |
| | PROPOSED \"DO NOT ENTER\" STRIPING. CONTRACTOR TO PROVIDE SHOP DRAWING OF PAVEMENT MARKINGS FOR APPROVAL PRIOR TO INSTALLATION |
| | PIPE BOLLARD (REF. ARCH. PLANS) |
| | PROPOSED DIRECTIONAL ARROW STRIPING. CONTRACTOR TO PROVIDE SHOP DRAWING OF PAVEMENT MARKINGS PRIOR TO INSTALLATION |
| | PROPOSED RIBBON CURB. SEE DETAIL A2 ON SHEET 2.5.2 CIVIL SITE DETAILS |

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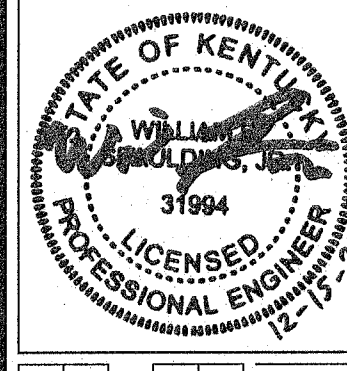
PAVING PLAN

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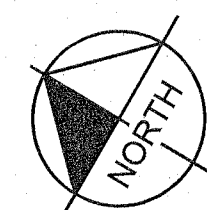
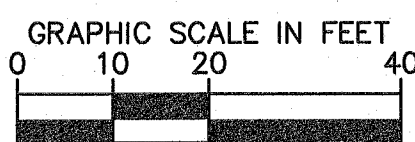


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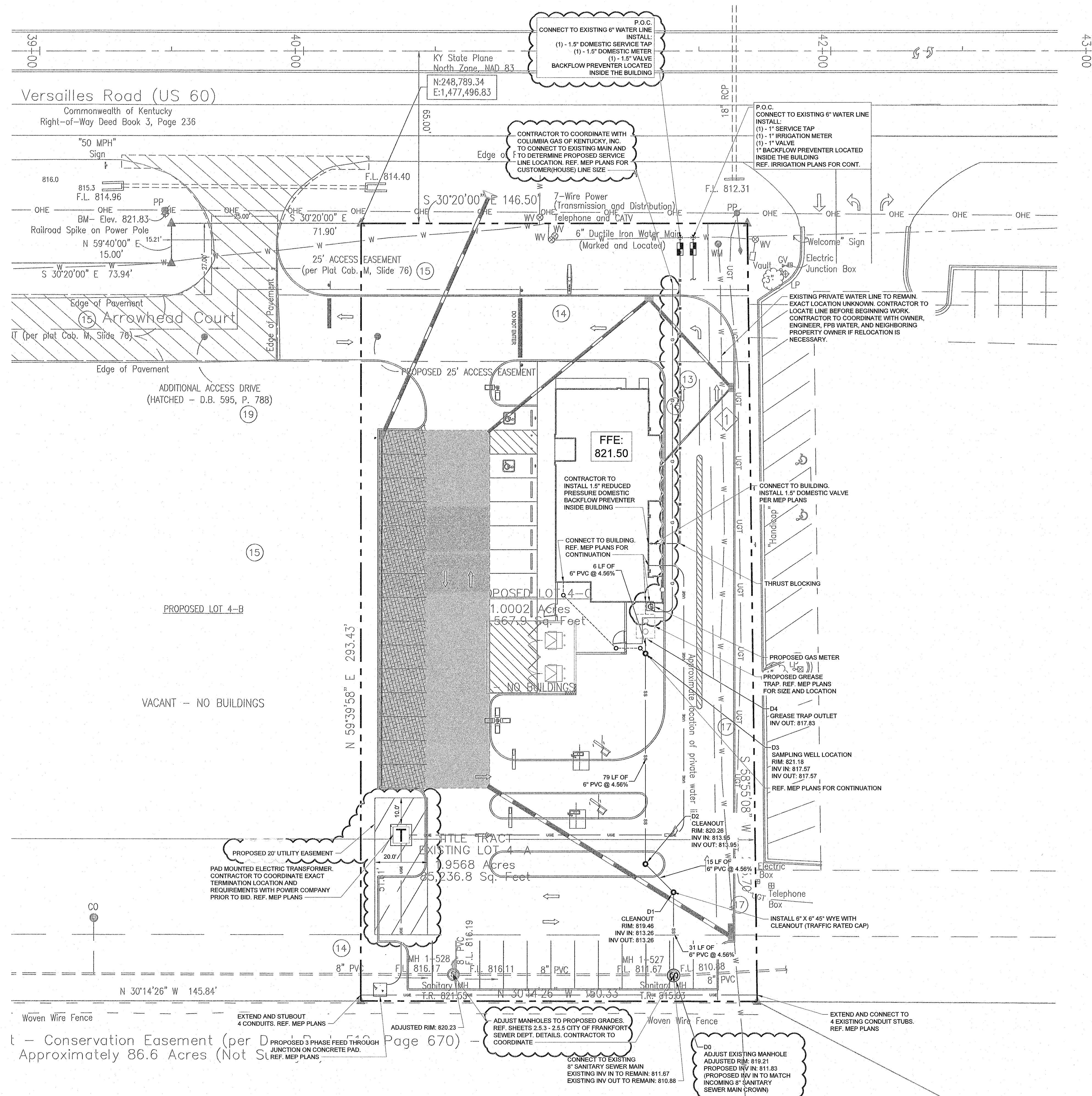
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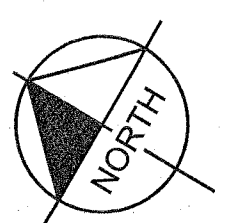
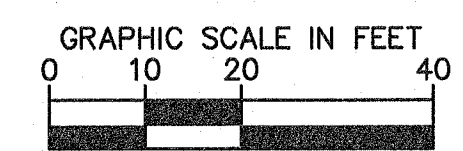
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NOTES

UTILITY NOTES:

1. CONTRACTOR RESPONSIBLE FOR VERIFYING EXISTING ELEVATIONS COMPARED TO THOSE SHOWN ON PLAN PRIOR TO GRADING. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES ARE FOUND.
2. AREAS FOR CONSTRUCTION THAT REQUIRE DE-WATERING FOR EXCAVATION WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
3. ALL WATER AND SEWER MATERIALS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH FRANKFORT PLANT BOARD AND CITY OF FRANKFORT SEWER DEPARTMENTS STANDARDS AND SPECIFICATIONS.
4. MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION BETWEEN WATER & SANITARY SEWER OR 18" VERTICAL SEPARATION AT CROSSING LOCATIONS.
5. REFER TO CITY OF FRANKFORT STANDARD SPECIFICATIONS FOR PIPE BEDDING REQUIREMENTS.
6. ALL WATER VALVES TO BE LOCATED OUTSIDE OF PAVED AREAS WHERE POSSIBLE.
7. THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS OF WATER & SANITARY SEWER CONSTRUCTION PRIOR TO THE ACCEPTANCE OF THE PUBLIC UTILITIES.
8. ANY WORK REQUIRED ON THE PUBLIC MAIN TO BE PERFORMED BY THE FRANKFORT PLANT BOARD. PAVEMENT REPAIR SHALL BE DONE IN ACCORDANCE WITH CITY OF FRANKFORT PUBLIC WORKS STANDARDS.
9. WATER LINES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 2.5 FEET BELOW FINISHED GRADE.
10. REFERENCE ARCHITECTURAL AND MEP PLANS FOR EXACT UTILITY TIE-IN LOCATIONS AT BUILDING.
11. SEE MEP PLANS FOR COMMUNICATIONS AND ELECTRIC ROUTING.

EXISTING UTILITIES NOTES

1. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.

FRANCHISE UTILITY NOTES

1. TELEPHONE UTILITY CONSTRUCTION SHALL COMPLY WITH AT&T KENTUCKY STANDARD SPECIFICATIONS.
2. COMMUNICATION CONDUIT INSTALLATION SHALL COMPLY WITH FRANKFORT PLANT BOARD TELECOM STANDARD SPECIFICATIONS.
3. UNDERGROUND ELECTRICAL INSTALLATION SHALL COMPLY WITH FRANKFORT PLANT BOARD STANDARD SPECIFICATIONS.
4. NATURAL GAS CONSTRUCTION & INSTALLATION SHALL COMPLY WITH COLUMBIA GAS OF KENTUCKY STANDARD SPECIFICATIONS.
5. SEE COVER SHEET (0.1) FOR FRANCHISE UTILITY CONTACT INFORMATION.

EXISTING SANITARY MANHOLE VACUUM TEST NOTE

1. PRIOR TO ANY DISTURBANCE ON THE SITE, THE CONTRACTOR SHALL PERFORM A VACUUM TEST OF 5 PSI ON THE MH 1-528. IF THE MH 1-528 PASSES THE VACUUM TEST, ANOTHER SUCCESSFUL VACUUM TEST WILL BE REQUIRED AFTER THE MANHOLE MODIFICATIONS.
2. PRIOR TO ANY DISTURBANCE ON THE SITE, THE CONTRACTOR SHALL PERFORM A VACUUM TEST OF 5 PSI ON THE MH 1-527. IF THE MH 1-527 PASSES THE VACUUM TEST, ANOTHER SUCCESSFUL VACUUM TEST WILL BE REQUIRED AFTER THE MANHOLE MODIFICATIONS.

FRANKFORT SEWER DEPARTMENT NOTES

1. THE CONTRACTOR SHALL CONTACT FSD, 502.875.2448, PRIOR TO CONSTRUCTION TO ALLOW THE FRANKFORD SEWER DEPARTMENT TO CATCH THE EXISTING SEWERS. UPON COMPLETION OF CONSTRUCTION, FSD WILL CCTV THE EXISTING SEWERS AGAIN. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING SEWER SYSTEM RESULTING FROM CONSTRUCTIONS (I.E. DAMAGED PIPES, SILTED PIPES, ETC).
2. NO DISCHARGE WILL BE ALLOWED UNTIL THE FRANKFORD SEWER DEPARTMENT WITNESSES INSTALLATION, TESTING AND APPROVES THE CONNECTION.
3. OWNER WILL BE REQUIRED TO PAY A CAPACITY / TAP FEE BASED UPON THE NUMBER AND SIZE OF WATER METERS ON THE PROPERTY. IF THE EXISTING WATER METER IS TO BE UPSIZED THE FEE WILL BE BASED UPON THE DIFFERENCE IN SIZE.

SITE UTILITY PLAN

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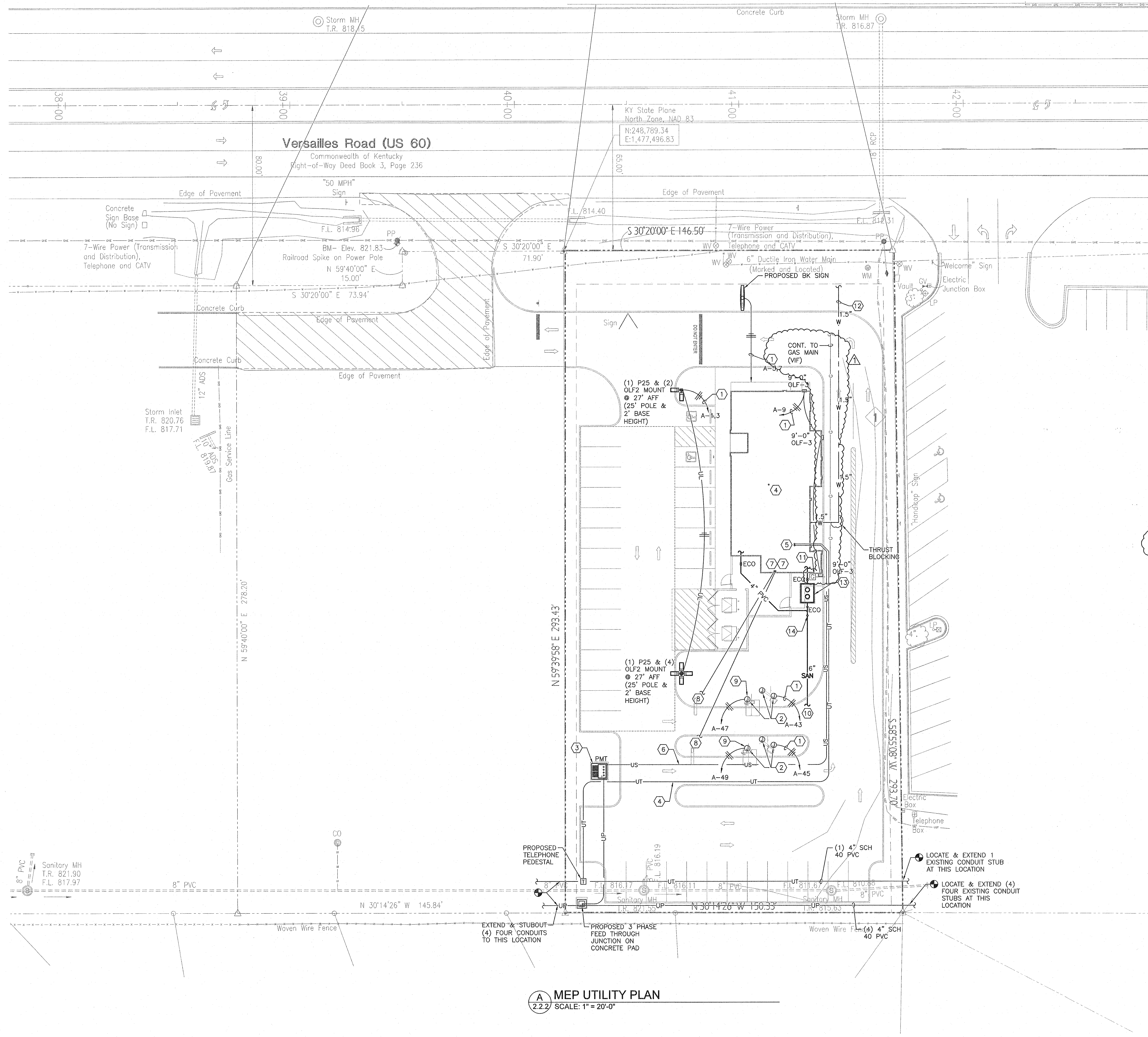
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William
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FILE NAME: BURGER KING - Versailles Road, Frankfort, KY 40601
DESCRIPTION: MEP UTILITY PLAN
DRAWN BY: JIM CARTER
PLOT SCALE: 1" = 20'-0"



MEP UTILITY PLAN
2.2.2 SCALE: 1" = 20'-0"

GENERAL SHEET NOTES

- A. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- B. CONTRACTOR SHALL REVIEW ALL ARCHITECTURAL, CIVIL, MECHANICAL & STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIREMENTS.
- C. CONTRACTOR SHALL COORDINATE THE WORK WITH OTHER TRADES.
- D. ALL CONDUIT SHALL BE AS STRAIGHT AS POSSIBLE AND PARALLEL OR PERPENDICULAR TO BUILDING LINES.
- E. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- F. ALL CONDUIT SHALL BE ROUTED CONCEALED WITHIN WALLS AND/OR ABOVE CEILINGS.
- G. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS OF ALL DEVICES.
- H. CONTRACTOR SHALL INCLUDE IN THE BID, ALL UTILITY PERMITS, TAPS AND FEES FOR A COMPLETE INSTALLATION.

CODED SHEET NOTES:

1. ROUTE HOMERUN THROUGH LIGHTING CONTRACTOR. SEE DETAILS, SHEETS 8.7.
2. PROVIDE 8"x8"x6" WEATHERPROOF J-BOX W/ HAND-CLOSE FASTENERS. REFERENCE ARCHITECTURAL SHEET 2.10 FOR EXACT QUANTITY AND ADDITIONAL REQUIREMENTS.
3. PROPOSED LOCATION OF NEW PAD MOUNTED TRANSFORMER AND CONCRETE PAD. COORDINATE EXACT TERMINATION LOCATION AND REQUIREMENTS WITH POWER COMPANY PRIOR TO BID.
4. PROVIDE (2) 4" CONDUITS WITH PULL CORDS FOR PHONE/DATA WIRING BY SERVICE PROVIDER. COORDINATE EXACT LOCATION OF TELEPHONE BOARD IN BUILDING PRIOR TO TRENCHING. SEE DETAIL 3, SHEET 8.5.
5. APPROXIMATE LOCATION OF MAIN SERVICE DISCONNECT.
6. UNDERGROUND SECONDARY ELECTRICAL SERVICE. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL REQUIREMENTS.
7. PROVIDE (1) 2" UNDERGROUND CONDUIT FOR POWER AND (1) 2" UNDERGROUND CONDUIT FOR DATA TO J-BOX. PROVIDE 120 VOLT POWER TO DIRECTIONAL SIGNS, SWITCH WITH MENU BOARD. COORDINATE EXACT LOCATION WITH OWNER, PRIOR TO TRENCHING. REFER TO SHEET 8.2 FOR ADDITIONAL REQUIREMENTS.
8. REFERENCE ARCHITECTURAL SHEET 2.10 FOR CONTINUATION AND ADDITIONAL REQUIREMENTS.
9. PROVIDE 120V WP/CFI DUPLEX RECEPTACLE AT ORDER CONFIRMATION UNIT (O.C.U.) FOR TV SCREEN. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH DRIVE-THRU EQUIPMENT.
10. 6" SS: REFER TO CIVIL SITE PLAN FOR CONTINUATION.
11. PROPOSED GAS METER LOCATION. PROVIDE MINIMUM 7"WC GAS PRESSURE. TOTAL GAS DEMAND 1054 CFH; COORDINATE WITH COLUMBIA GAS FOR NEW GAS SERVICE. PAY ALL ASSOCIATED FEES.
12. 1.5" CW: REFER TO CIVIL SITE PLAN FOR CONTINUATION TO 6" DUCTILE IRON WATER MAIN. PAY ALL ASSOCIATED FEES.
13. PROPOSED LOCATION FOR 1500 GALLON GREASE TRAP AND SAMPLE WELL. REFER TO PLUMBING SCHEDULES FOR MORE INFORMATION.
14. SAMPLING WELL LOCATION ACCEPTS DISCHARGE FROM GREASE WASTE AND DOMESTIC WASTE LEAVING THE FACILITY.
15. ROUTE 4" STORM LINE (ROOF DRAINS) TO STORM SEWER. FIELD VERIFY EXACT LOCATION.

SHEET LEGEND

- UL— UNDERGROUND LIGHTING CIRCUIT.
- US— UNDERGROUND SECONDARY.
- UP— UNDERGROUND PRIMARY.
- UT— UNDERGROUND TELEPHONE.
- UTV— UNDERGROUND TELEVISION.
- UC— UNDERGROUND COMMUNICATIONS.
- SAN— WASTE LINE
- W— WATER LINE
- G— GAS LINE
- ST— STORM WATER LINE
- PAD MOUNT TRANSFORMER.
- SINGLE HEAD POLE LIGHT.
- DOUBLE HEAD POLE LIGHT.
- PEDESTRIAN POLE LIGHT

UTILITY CONTACT INFORMATION

1. ELECTRIC: FRANKFORT PLANT BOARD
MR. JIM CARTER
151 FLYNN AVENUE
FRANKFORT, KY 40601
(502) 352-4401
2. GAS: COLUMBIA GAS
MR. CHRIS BAKER
2001 MERCER ROAD
LEXINGTON, KY 40511
(859) 537-2202

JAN 07 2022

REV#1

1/10/2022

Charles William Pope & Associates
ARCHITECTURE, PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

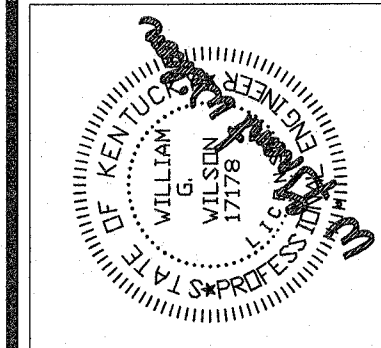
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JOB NO: 44387
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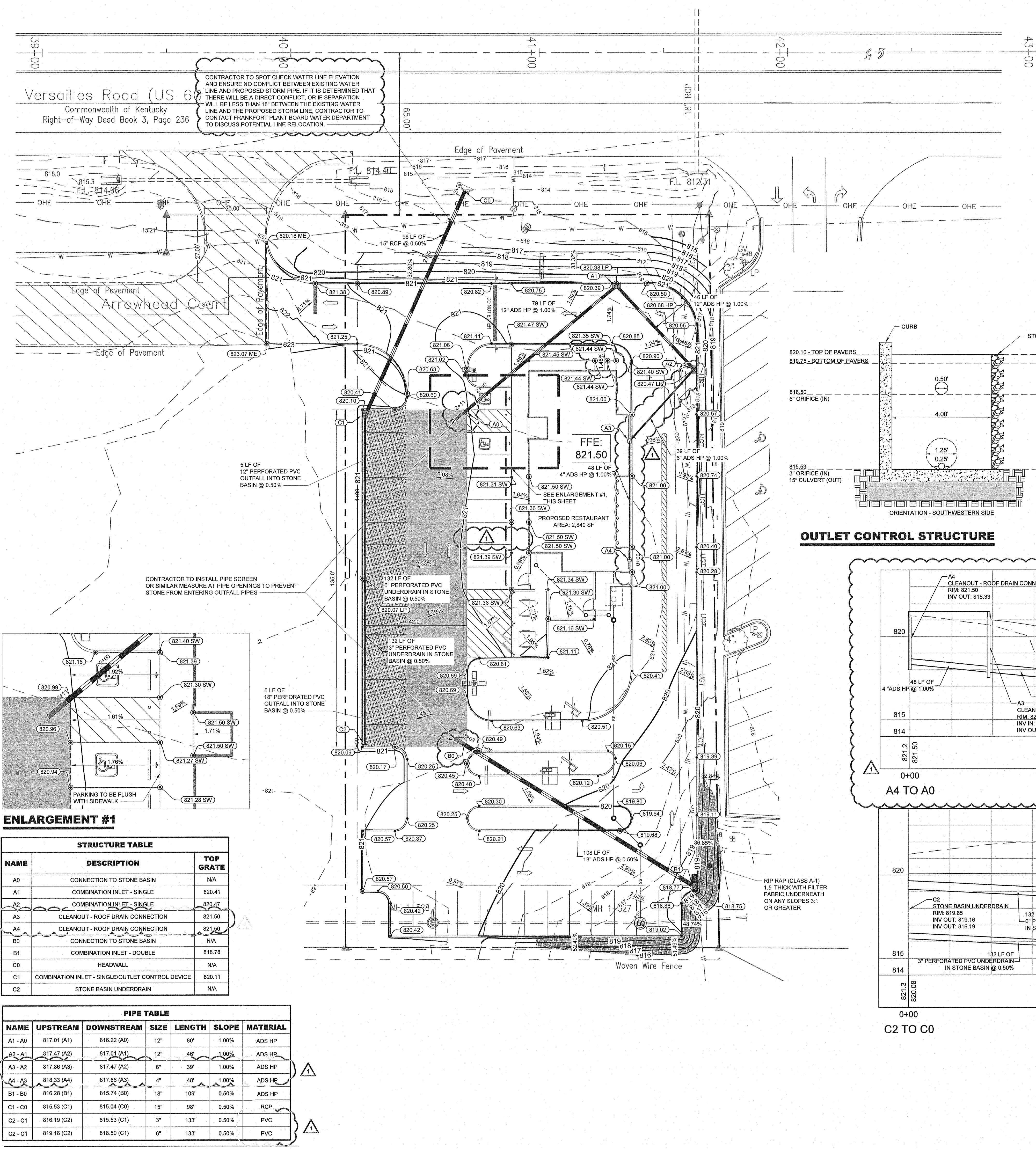
REVISIONS:

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

E-TECH
CONSULTANTS PLLC
378 PARK AVENUE, LEXINGTON, KY 40502 (859) 254-4200



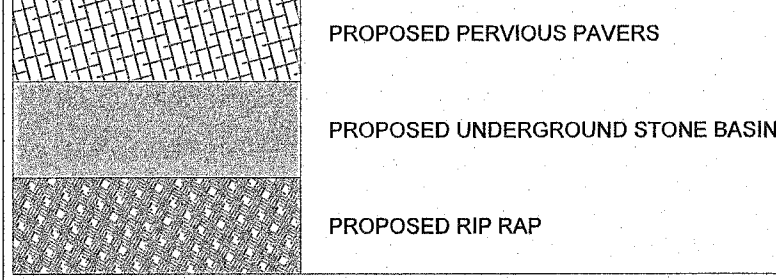
Drawing name: W:\kyle-horn.com\99_nashville\16423003 - burger king - frankfort ky\4-CADD\plan\sheet\2.3.1 GRADING PLAN - OVERALL.dwg Feb 07, 2022 6:40pm by: Madison Molozzo
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GRADING NOTES

1. ALL SPOT GRADES ARE TO BOTTOM OF CURB UNLESS OTHERWISE NOTED. CONTRACTOR TO ADD 6" FOR TOP OF CURB AS NECESSARY.
2. NO EARTHEN SLOPE SHALL BE GREATER THAN 3:1, UNLESS OTHERWISE NOTED.
3. MAXIMUM SLOPE IN ACCESSIBLE PARKING SPACES AND SIDEWALK LANDINGS SHALL NOT EXCEED 2.0% IN ALL DIRECTIONS.
4. MAXIMUM RUNNING SLOPE SHALL NOT EXCEED 5% AND CROSS SLOPE SHALL NOT EXCEED 2% ON ALL SIDEWALKS UNLESS OTHERWISE NOTED. RUNNING SLOPE MAY EXCEED 5% IN PUBLIC R.O.W. IF EXISTING ROAD SLOPE EXCEEDS 5%.
5. GENERAL CONTRACTOR TO REFERENCE NOTE 1 REGARDING SPOT ELEVATIONS, AND COORDINATE WITH DIRT AND LANDSCAPE SUBCONTRACTORS REGARDING PROPOSED SOD AND HYDROMULCH LOCATIONS TO ENSURE ADEQUATE CUT FOR FUTURE VEGETATION.
6. EXISTING MANHOLE TOPS, VALVE BOXES, ETC. ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, READJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
7. REFERENCE LANDSCAPE PLAN FOR DETAILS FOR ANY RAMPS, HANDRAILS, AND STAIRS.

HATCH LEGEND



STORMWATER QUALITY CALCULATIONS

PER THE CITY OF FRANKFORT AND FRANKLIN COUNTY, KENTUCKY STORMWATER PROCEDURES MANUAL SECTION 3.7, DATED FEBRUARY 2019, NEW DEVELOPMENT PROJECTS ARE REQUIRED TO TREAT RUNOFF OF 80% OF THE AVERAGE ANNUAL RAINFALL, WHICH IS CONSIDERED THE "FIRST FLUSH". STORMWATER BMPs MUST BE SIZED TO CAPTURE AND TREAT THIS DEFINES WATER QUALITY VOLUME WHICH IS DEFINED BY THE CITY/COUNTY AS THE FIRST 0.87 INCHES OF RAINFALL FROM THE SITE. THE WATER QUALITY VOLUME (WQV) EQUATION, WHICH FORMS THE FOUNDATION OF THE CITY/COUNTY STORMWATER QUALITY MANAGEMENT PROGRAM, ESTABLISHES THE VOLUME THAT MUST BE TREATED. SEE CALCULATIONS BELOW.

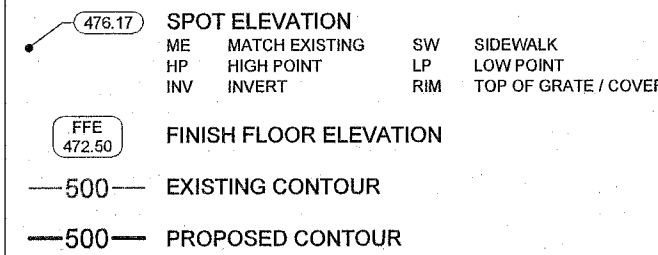
REQUIRED WATER QUALITY VOLUME

$WQV = (P \cdot R_v \cdot A) / 12$
P = AVERAGE RAINFALL IN INCHES
= 0.87 INCHES
 R_v = VOLUMETRIC RUNOFF COEFFICIENT
= $0.05 + 0.009(I)$ WHERE I IS THE PERCENT IMPERVIOUS COVER
= $0.05 + 0.009(70.4)$
= 0.684
A = TOTAL AREA TO BE DISTURBED IN SQUARE FEET
= 41,748 SF
 $WQV = (0.87 \cdot 0.684 \cdot 41,748) / 12$
= 2,070 CUBIC FEET REQUIRED

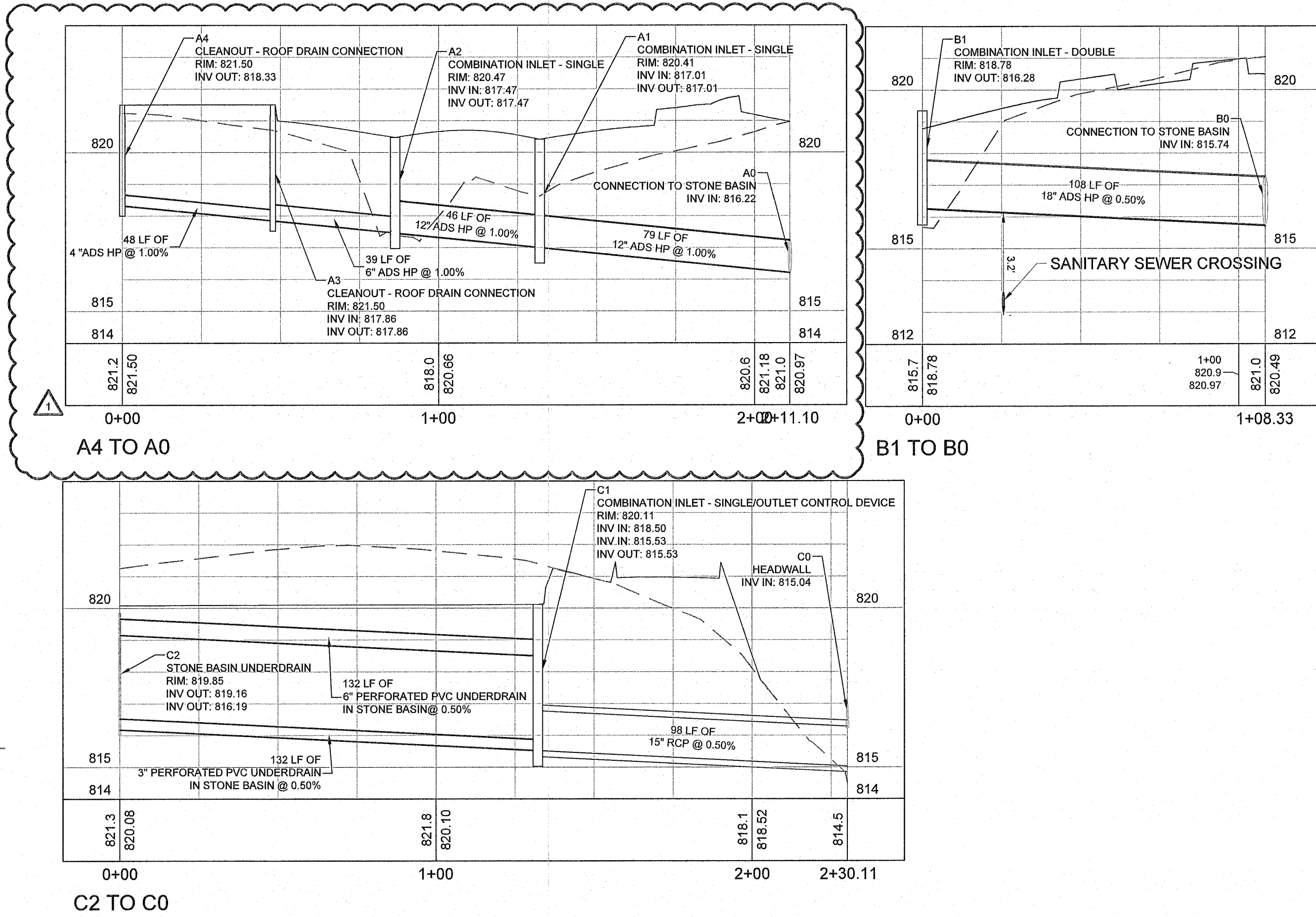
PROVIDED UNDERGROUND STONE BASIN VOLUME

$V = (35 \text{ FT} \cdot 42 \text{ FT} \cdot 4.35 \text{ FT}) \cdot 40\% \text{ VOID SPACE}$
= 9,639 CUBIC FEET PROVIDED
= 357 CUBIC YARDS PROVIDED

GRADING PLAN LEGEND



OUTLET CONTROL STRUCTURE

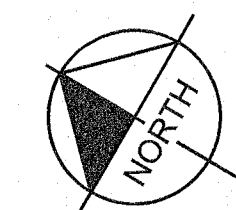
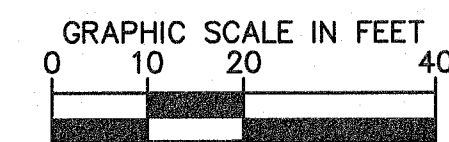


ENLARGEMENT #1

STRUCTURE TABLE		
NAME	DESCRIPTION	TOP GRATE
A0	CONNECTION TO STONE BASIN	N/A
A1	COMBINATION INLET - SINGLE	820.41
A2	COMBINATION INLET - SINGLE	820.47
A3	CLEANOUT - ROOF DRAIN CONNECTION	821.50
A4	CLEANOUT - ROOF DRAIN CONNECTION	821.50
B0	CONNECTION TO STONE BASIN	N/A
B1	COMBINATION INLET - DOUBLE	816.78
C0	HEADWALL	N/A
C1	COMBINATION INLET - SINGLE/OUTLET CONTROL DEVICE	820.11
C2	STONE BASIN UNDERDRAIN	N/A

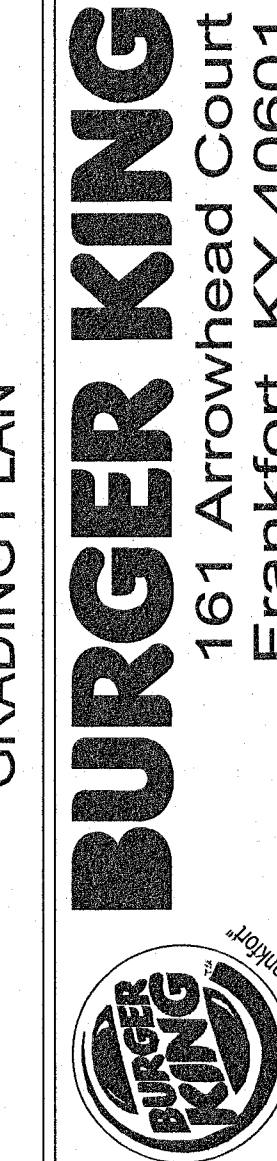
PIPE TABLE						
NAME	UPSTREAM	DOWNSTREAM	SIZE	LENGTH	SLOPE	MATERIAL
A1 - A0	817.01 (A1)	816.22 (A0)	12"	80'	1.00%	ADS HP
A2 - A1	817.47 (A2)	817.01 (A1)	12"	46'	1.00%	ADS HP
A3 - A2	817.86 (A3)	817.47 (A2)	6"	39'	1.00%	ADS HP
A4 - A3	818.33 (A4)	817.86 (A3)	4"	48'	1.00%	ADS HP
B1 - B0	816.28 (B1)	815.74 (B0)	18"	109'	0.50%	ADS HP
C1 - C0	815.53 (C1)	815.04 (C0)	15"	98'	0.50%	RCP
C2 - C1	816.19 (C2)	815.53 (C1)	3"	133'	0.50%	PVC
C2 - C1	819.16 (C2)	818.50 (C1)	6"	133'	0.50%	PVC

PERMIT SET



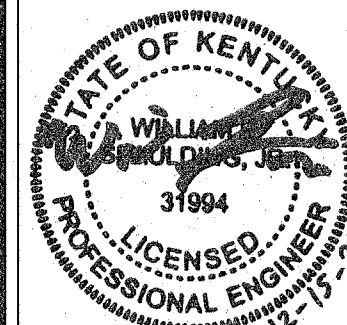
REVISIONS:
02/08/2022
STORM LINE UPDATES

GRADING PLAN



Kimley»Horn

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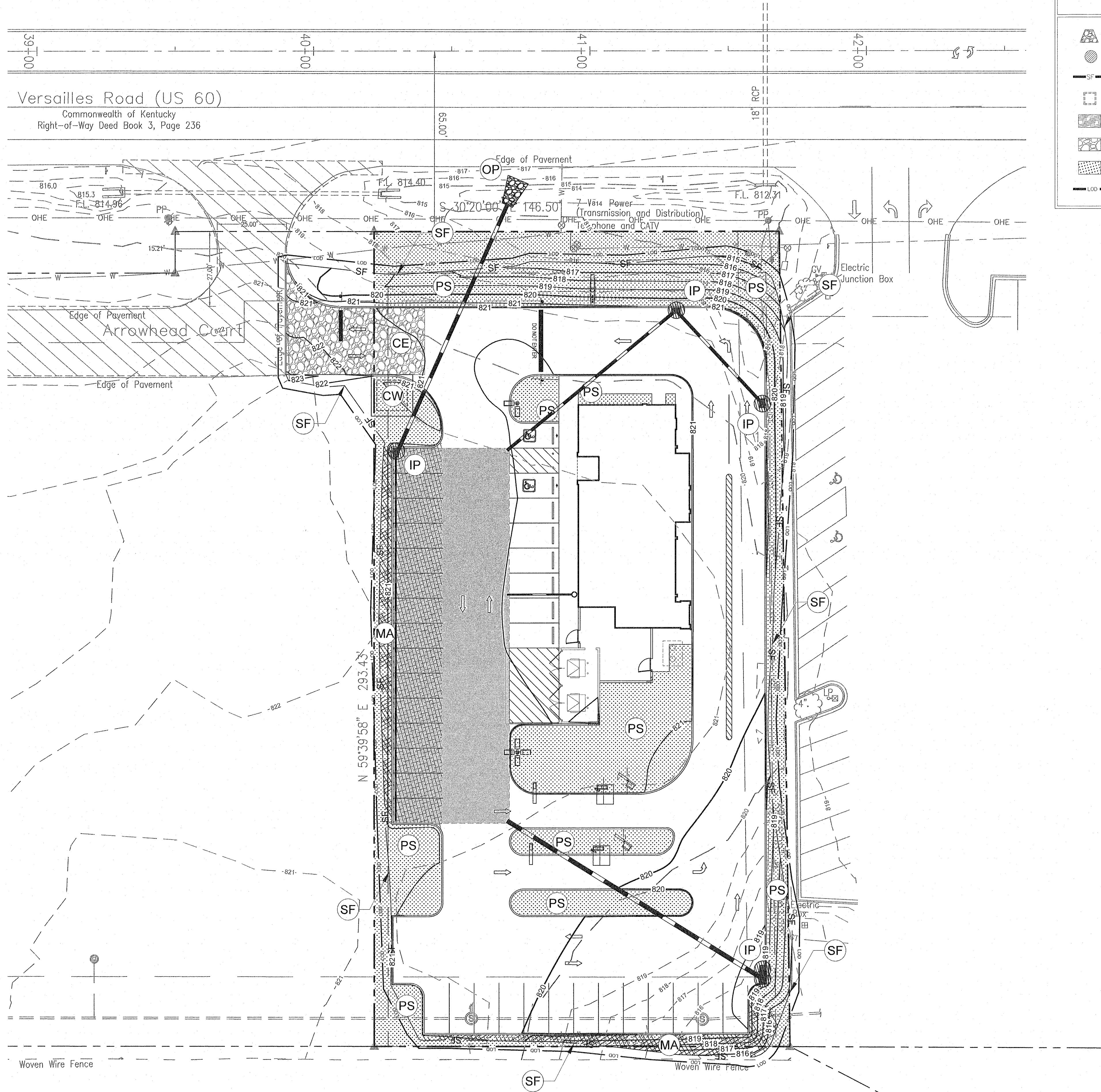


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DATE: 12/28/2021
JOB NO: 118423003
DRAWN BY:
SHEET NUMBER:

2.3.1

Drawing name: \\kimley-horn.com\sa_jash\NSH_LOE\11423003 - burger king - frankfort.ky\4-CADD\plan\sheet\c3-10 EROSION CONTROL PLAN - PHASE 1.dwg 2.4.1 EROSION CONTROL PLAN Dec 23, 2021 2:40pm by: Madison Moloso
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EROSION CONTROL LEGEND

- OP OUTLET PROTECTION - REFER TO SHEET 2.4.2 DETAIL 1
- IP INLET PROTECTION - REFER TO SHEET 2.4.2 DETAIL 2
- SF SILT FENCE - REFER TO SHEET 2.4.2 DETAIL 3
- CW CONCRETE WASHOUT AREA - REFER TO SHEET 2.4.2 DETAIL 4
- MA EROSION CONTROL MATTING - CONTRACTOR TO INSTALL ON ALL SLOPES 3(H):1(V) OR STEEPER - REFER TO SHEET 2.4.2 DETAIL 5
- CE CONSTRUCTION EXIT - REFER TO SHEET 2.4.2 DETAIL 6
- PS PERMANENT STABILIZATION
- LOO LIMITS OF DISTURBANCE

SLOPE STABILIZATION NOTE

ALL 3:1 OR STEEPER SLOPES TO BE STABILIZED WITHIN 7 DAYS.

EROSION CONTROL NOTES

- AREAS CONTAINED WITHIN THE PROPERTY BOUNDARIES WILL BE AREAS OF DISTURBANCE AND SOIL STABILIZATION. ALL SOILS WITHIN THESE LIMITS SHALL BE STABILIZED BY VEGETATION OR STRUCTURE.
- ALL CONSTRUCTION-RELATED VEHICLES MUST PARK INSIDE THE LIMITS OF CONSTRUCTION AND SERVED BY APPROPRIATE TEMPORARY CONTROLS, OR ON CITY-APPROVED SURFACES OUTSIDE THE LIMITS OF CONSTRUCTION.
- CONTRACTOR SHALL REMOVE ALL SEDIMENT AND DEBRIS FROM CONSTRUCTED STORM SEWER SYSTEM UPON COMPLETION OF WORK.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO USE WHATEVER MEANS ARE NECESSARY TO CONTROL AND LIMIT SILT AND SEDIMENT LEAVING THE SITE. SPECIFICALLY, THE CONTRACTOR SHALL PROTECT ALL PUBLIC STREETS, ALLEYS, STREAMS, STORM DRAIN SYSTEMS AND INLETS FROM EROSION DEPOSITS. THE CONTRACTOR RESPONSIBLE FOR MAINTAINING EROSION CONTROL SHALL PROVIDE STREET CLEANING ON PUBLIC STREETS IF ANY EARTH MATERIAL IS TRANSPORTED FROM THE CONSTRUCTION SITE AT THE END OF EACH DAY. EARTH MATERIAL SHALL NOT BE ALLOWED TO ACCUMULATE ON CITY AND KYTC ROADS.

SITE MAP GENERAL NOTES

- CONTRACTOR IS SOLELY RESPONSIBLE FOR SELECTION, IMPLEMENTATION, MAINTENANCE AND REMOVAL OF ALL SWPPP CONTROLS - CONTROLS SHOWN ON THIS SITE MAP ARE SUGGESTED CONTROLS ONLY.
- CONTRACTOR SHALL RECORD INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL DATES FOR EACH BMP EMPLOYED (WHETHER CALLED OUT ON ORIGINAL SWPPP OR NOT) DIRECTLY ON THE SITE MAP.
- DRAINAGE PATTERNS ARE SHOWN ON THIS PLAN BY PROPOSED AND EXISTING CONTOURS, FLOW ARROWS, AND SLOPES.
- TEMPORARY AND PERMANENT STABILIZATION PRACTICES AND BMP'S SHALL BE INSTALLED AT THE EARLIEST POSSIBLE TIME DURING THE CONSTRUCTION SEQUENCE. AS AN EXAMPLE, PERIMETER SILT FENCE SHALL BE INSTALLED BEFORE COMMENCEMENT OF ANY GRADING ACTIVITIES. OTHER BMP'S SHALL BE INSTALLED AS SOON AS PRACTICABLE AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION IS ATTAINED. CONTRACTOR SHALL ALSO REFERENCE CIVIL AND LANDSCAPE PLANS SINCE PERMANENT STABILIZATION IS PROVIDED BY LANDSCAPING, THE BUILDING(S), AND SITE PAVING.
- BMP'S HAVE BEEN LOCATED AS INDICATED ON THIS PLAN IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES IN ORDER TO MINIMIZE SEDIMENT TRANSFER. FOR EXAMPLE, SILT FENCES LOCATED AT TOE OF SLOPE AND INLET PROTECTION FOR INLETS RECEIVING SEDIMENT FROM SITE RUN-OFF.
- SANITARY SEWER EFFLUENT IS DISPOSED OF VIA AN ONSITE SEWER SYSTEM CONNECTED TO A MUNICIPAL SEWER SYSTEM.

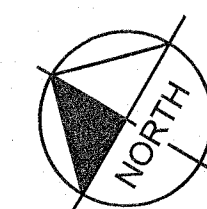
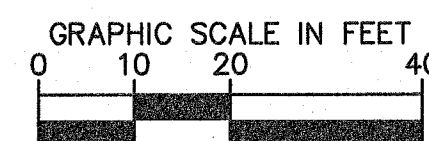
SITE MAP SITE SPECIFIC NOTES

- CONSTRUCTION ENTRANCE SHALL BE LOCATED SO AS TO PROVIDE THE LEAST AMOUNT OF DISTURBANCE TO THE FLOW OF TRAFFIC IN AND OUT OF THE SITE. ADDITIONALLY, CONSTRUCTION ENTRANCE SHALL BE LOCATED TO COINCIDE WITH THE PHASING OF THE PAVEMENT REPLACEMENT.
- THE NATURE OF THIS SITE'S CONSTRUCTION CONSISTS OF:
 - CLEARING AND GRUBBING
 - PRELIMINARY GRADING
 - UTILITY INSTALLATION
 - PAVEMENT CONSTRUCTION
 - BUILDING CONSTRUCTION
 - FINAL GRADING AND STABILIZATION
- STORM WATER ON SITE WILL LEAVE THE SITE VIA STORM WATER INFRASTRUCTURE AND OUTFALL IN A DITCH RUNNING ALONG THE WESTERN RIGHT-OF-WAY OF VERSAILLES ROAD.
- POST CONSTRUCTION STORM WATER POLLUTION CONTROL MEASURES INCLUDE STABILIZATION BY PERMANENT PAVING, OR LANDSCAPING.
- DISTURBED PORTIONS OF SITE MUST BE STABILIZED. STABILIZATION PRACTICES MUST BE INITIATED WITHIN 14 DAYS IN PORTIONS OF THE SITE WHERE CONSTRUCTION HAS BEEN EITHER TEMPORARILY OR PERMANENTLY CEASED. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF STABILIZATION OR PERMANENT DRAINAGE FACILITIES.
- ACCORDING TO FEMA'S MAP SERVICE CENTER, THE SITE IS LOCATED IN ZONE "X" DESIGNATED FLOODPLAIN PER FIRM NUMBER 2107330137E, EFFECTIVE ON 12/21/2017. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP/SITE MAP TO INCLUDE BMP'S FOR ANY OFF-SITE MATERIAL WASTE, BORROW OR EQUIPMENT STORAGE AREAS.
- CONTRACTOR SHALL INSPECT DISTURBED AREAS, MATERIAL STORAGE AREAS EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND VEHICLE ENTRY AND EXIT AREAS AT LEAST ONCE EVERY 14 CALENDAR DAYS AND WITHIN 24 HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER.

TEMPORARY EROSION CONTROL NOTES

- THE CONTRACTOR SHALL INSTALL EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING OR EXCAVATION).
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.
- A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD ON-SITE WITH THE CONTRACTOR, DESIGN ENGINEER/PERMIT APPLICANT AND ENVIRONMENTAL INSPECTOR AFTER INSTALLATION OF THE EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTION MEASURES AND PRIOR TO BEGINNING ANY SITE PREPARATION WORK. THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST THREE (3) DAYS PRIOR TO THE MEETING DATE.
- ANY MAJOR VARIATION IN MATERIALS OR LOCATIONS OF CONTROLS OR FENCES FROM THOSE SHOWN ON THE APPROVED PLANS WILL REQUIRE A REVISION AND MUST BE APPROVED BY THE REVIEWING ENGINEER, ENVIRONMENTAL SPECIALIST, OR ARBORIST AS APPROPRIATE. MAJOR REVISIONS MUST BE APPROVED BY THE FRANKLIN COUNTY PLANNING AND ZONING DEPARTMENT. MINOR CHANGES OR ADDITIONAL CONTROL MEASURES TO BE MADE AS FIELD REVISIONS TO THE EROSION AND SEDIMENTATION CONTROL PLAN MAY BE REQUIRED BY THE ENVIRONMENTAL INSPECTOR DURING THE COURSE OF CONSTRUCTION TO CORRECT CONTROL INADEQUACIES AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS REQUIRED TO INSPECT THE CONTROLS AND FENCES AT WEEKLY INTERVALS AND AFTER SIGNIFICANT RAINFALL EVENTS TO INSURE THAT THEY ARE FUNCTIONING PROPERLY. THE PERSON(S) RESPONSIBLE FOR MAINTENANCE OF CONTROLS AND FENCES SHALL IMMEDIATELY MAKE ANY NECESSARY REPAIRS TO DAMAGED AREAS. SILT ACCUMULATION AT CONTROLS MUST BE REMOVED WHEN THE DEPTH REACHES SIX (6) INCHES.

PERMIT SET



REVISIONS:
12/15/2021
DEVELOPMENT PLAN RESUBMITTAL
12/28/2021
DEVELOPMENT PLAN RESUBMITTAL

EROSION CONTROL PLAN

BURGER KING
Arrowhead Court
Frankfort, KY 40356



Kimley»Horn

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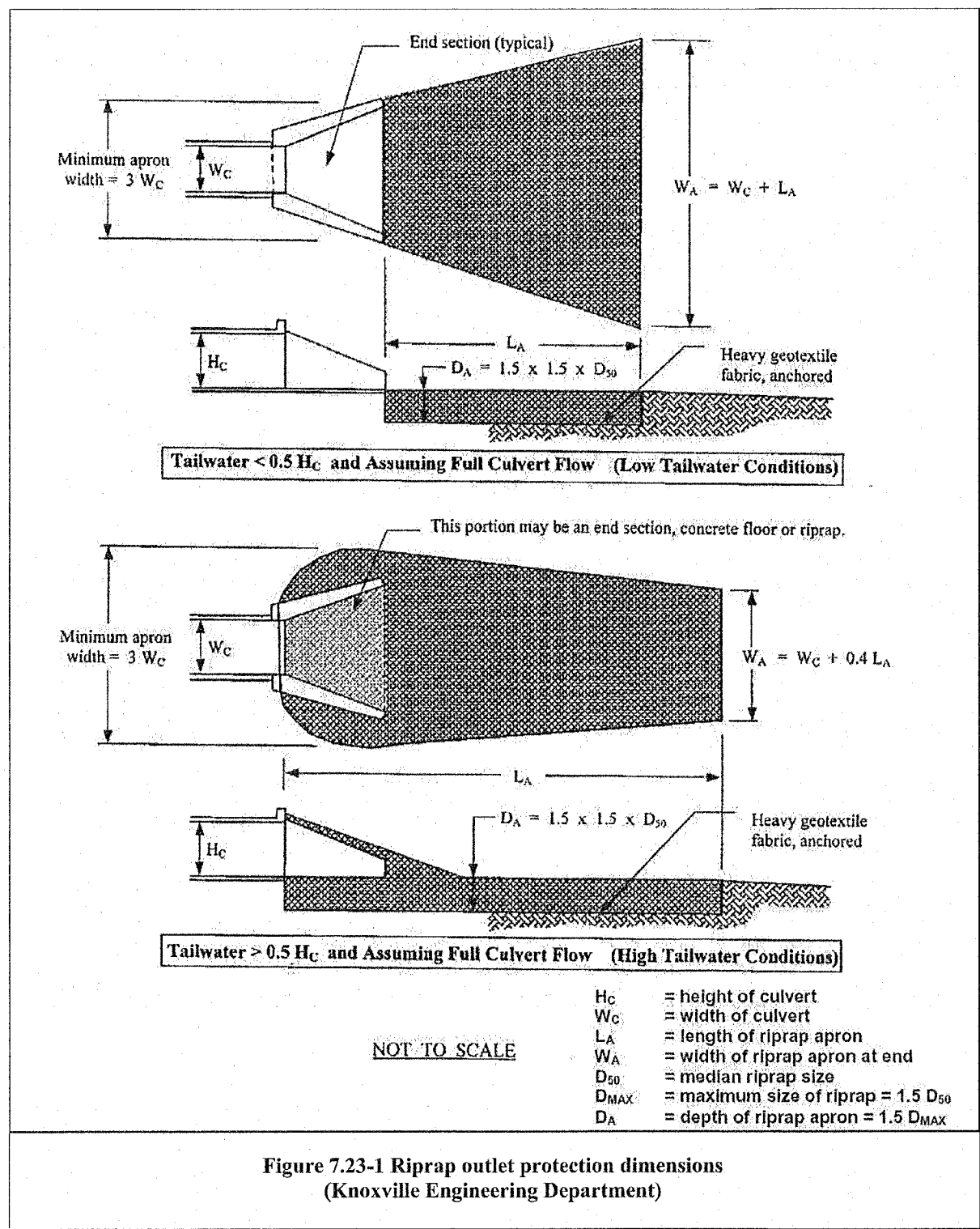


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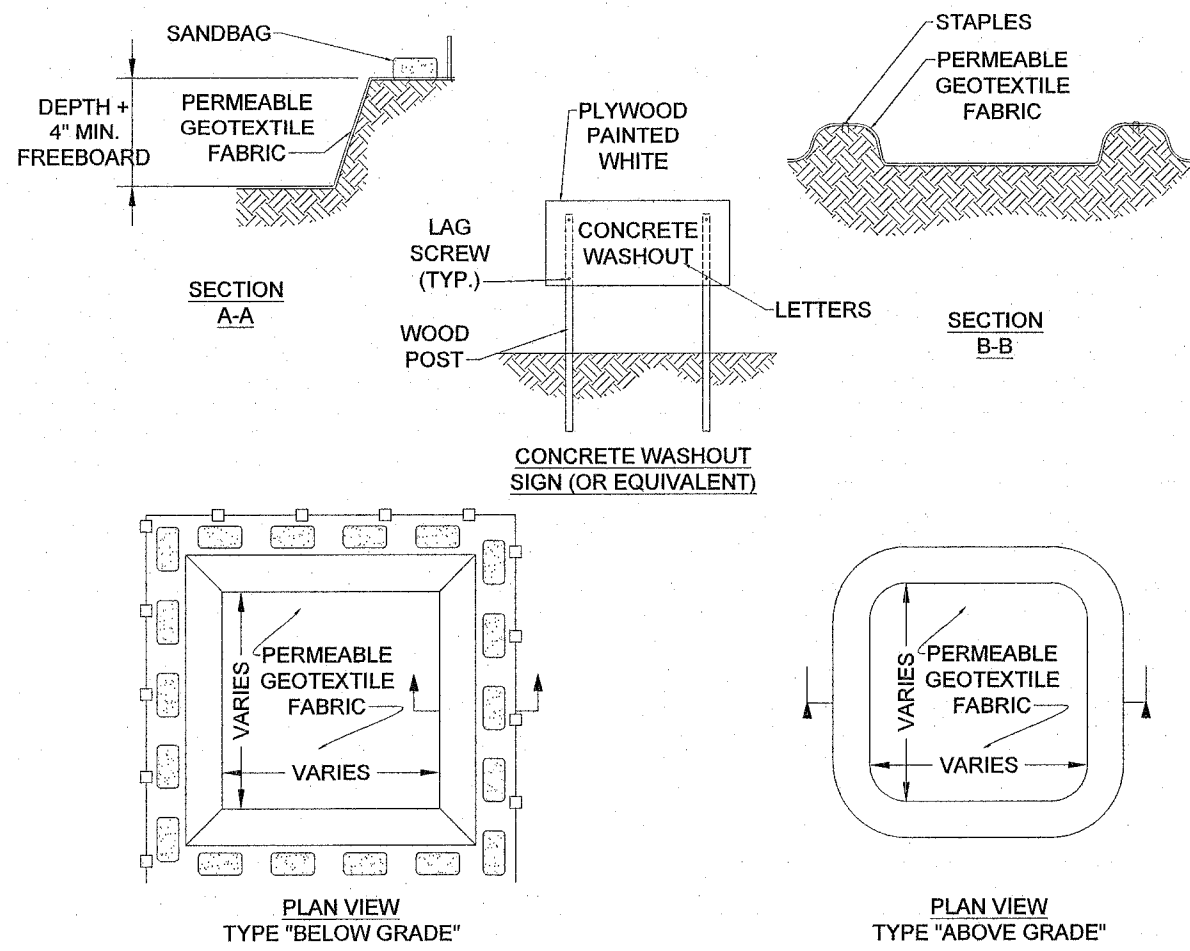
2.4.1

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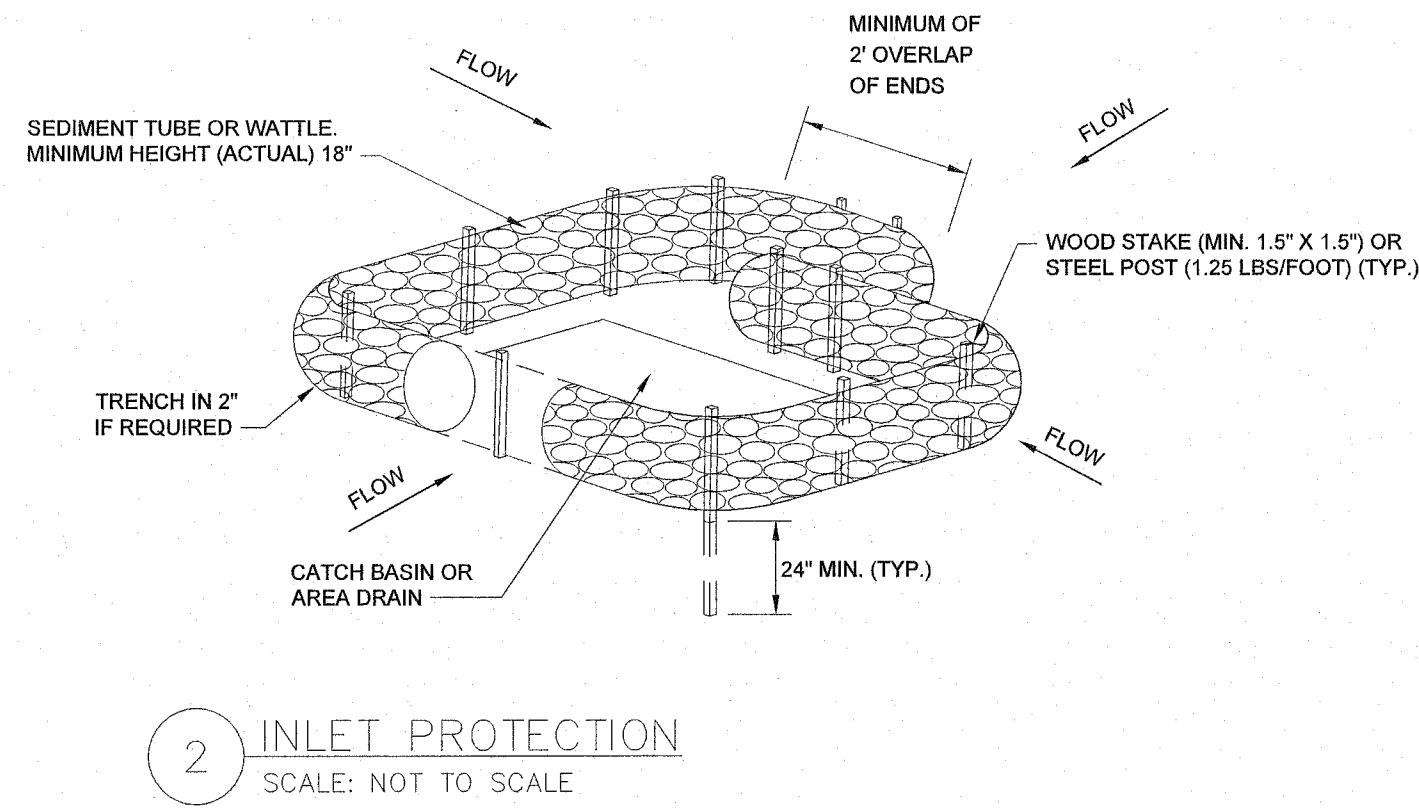
1 OUTLET PROTECTION

SCALE: NOT TO SCALE



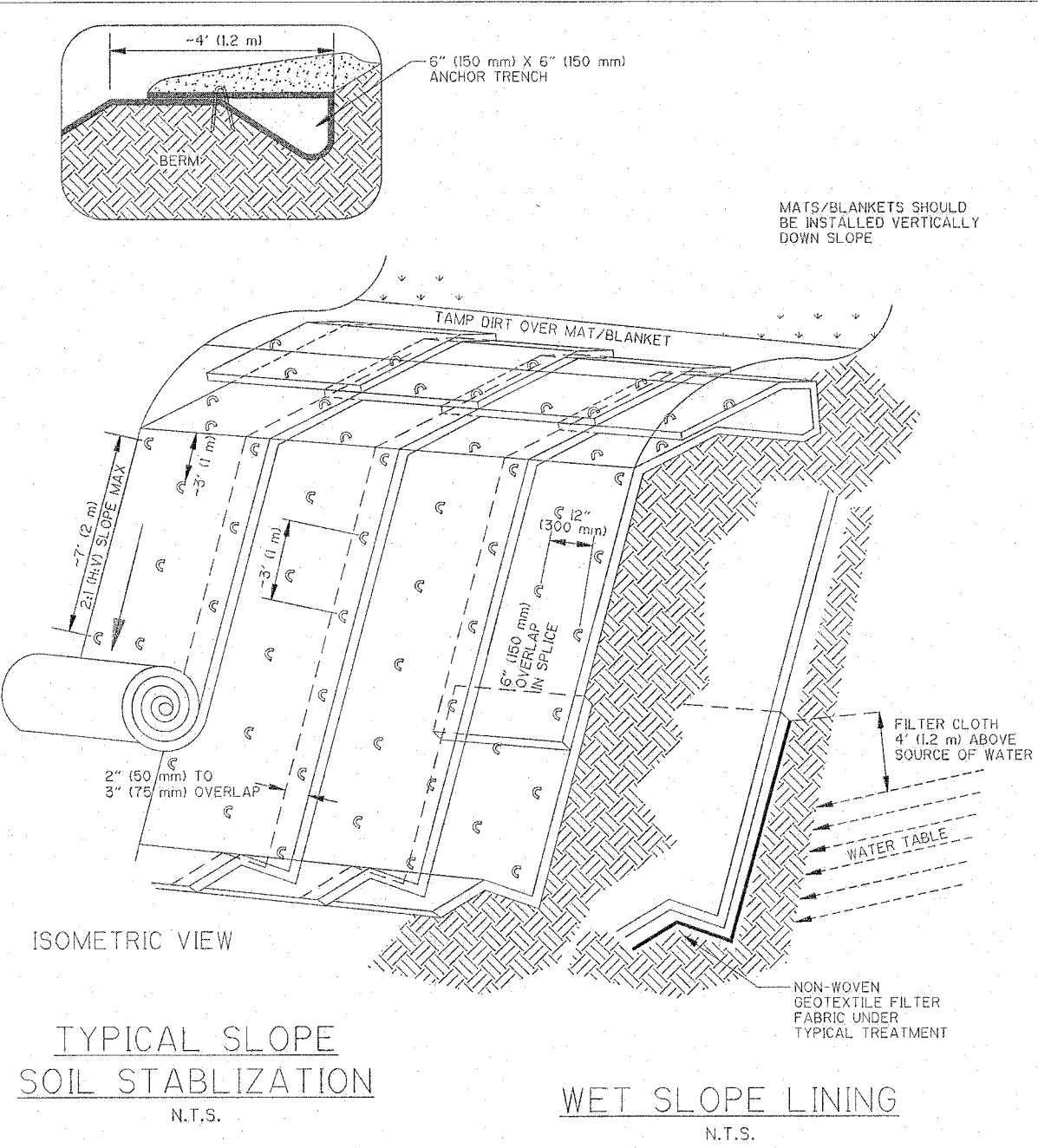
4 CONCRETE WASHOUT

SCALE: NOT TO SCALE



2 INLET PROTECTION

SCALE: NOT TO SCALE

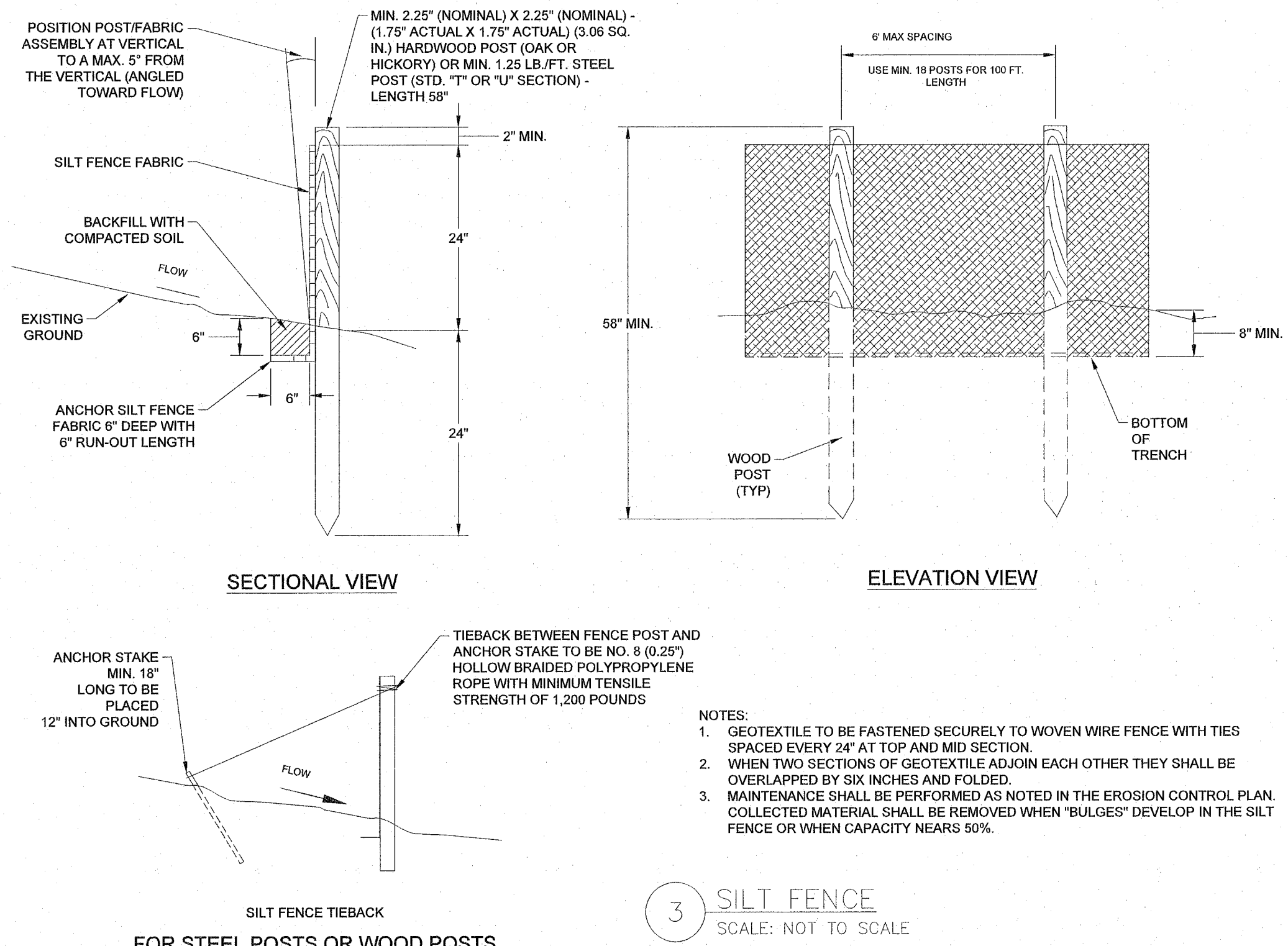


- NOTES:
1. SLOPE SURFACE SHALL BE FREE OF ROCKS, SOIL CLODS, STICKS AND GRASS. MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
 2. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.

Figure PES-02-2
Anchoring Geotextiles on Embankments

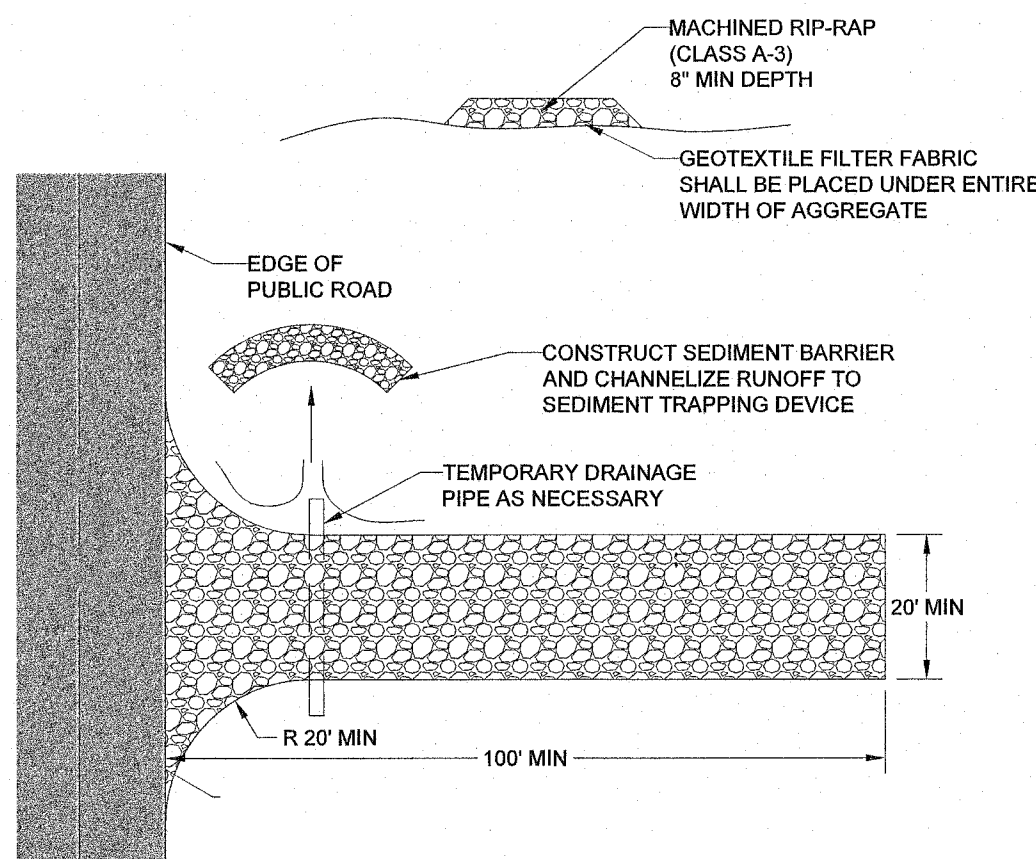
5 EROSION CONTROL MATTING

SCALE: NOT TO SCALE



3 SILT FENCE

SCALE: NOT TO SCALE



6 CONSTRUCTION EXIT

SCALE: NOT TO SCALE

PERMIT SET

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12/15/2021
DEVELOPMENT PLAN RESUBMITTAL
12/28/2021
DEVELOPMENT PLAN RESUBMITTAL

EROSION CONTROL DETAILS

BURGER KING
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STATE OF KENTUCKY
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12-11-21

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DATE: 12/28/2021
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SHEET NUMBER:

2.4.2

Drawing name: \\kimley-horn.com\user_josh\NSH_LOE\118423003 - burger king - frankfort ky\4-CADD\plan sheets\CO-01 GENERAL NOTES.dwg 2.5.1 CIVIL GENERAL NOTES Dec 23, 2021 2:40pm by: Madison Moles. This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.

CONTRACTOR RESPONSIBILITIES:

1. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
- A. THE CONTRACTOR SHALL VERIFY ALL PROPOSED AND EXISTING CONDITIONS INCLUDING UTILITIES (INVERTS, CONNECTIONS, MATERIALS, ETC.) AND DIMENSIONS WITHIN THE LIMITS OF WORK PRIOR TO THE START OF CONSTRUCTION.

B. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILED BUILDING INFORMATION.

C. THE CONTRACTOR IS RESPONSIBLE FOR ALL NOTIFICATIONS AND LIAISONS WITH UTILITY COMPANIES DURING THE PROCESS OF LOCATING, RELOCATING, AND TYING INTO PUBLIC UTILITIES.

D. PRIOR TO COMMENCING LAND DISTURBANCE ACTIVITY, THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY AND ACCURATELY DEMARCATED WITH STAKES, RIBBONS, OR OTHER APPROPRIATE MEANS, THE LOCATION AND EXTENT OF ALL AUTHORIZED LAND DISTURBANCE SHALL OCCUR INSIDE THE APPROVED LIMITS INDICATED ON THE APPROVED PLANS.
2. DURING CONSTRUCTION:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVIATIONS FROM THESE PLANS AND SPECIFICATIONS WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.

B. THE CONTRACTOR SHALL USE MATERIALS AND EMPLOY CONSTRUCTION METHODS IN ORDER TO COMPLY WITH THE DRAWINGS AND SPECIFICATIONS. WHERE A CONFLICT OCCURS, THE STRICTEST DESIGN SHALL GOVERN. THE ENGINEER'S REVIEW OF SHOP DRAWINGS, PRODUCT DATA, ETC., DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY SPECIFIC DEVIATIONS AND OBTAIN ENGINEER'S WRITTEN APPROVAL OF THE SPECIFIC DEVIATION.

C. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

D. ALL CONSTRUCTION MUST CONFORM TO THE STANDARDS, SPECIFICATIONS, AND CODES OF THE GOVERNING MUNICIPALITIES.

E. CONSTRUCTION SHALL MEET ALL CURRENT STANDARDS SET FORTH IN THE AMERICANS WITH DISABILITIES ACT.

F. IF THE CONTRACTOR DAMAGES ANY EXISTING UTILITIES DURING CONSTRUCTION, HE SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE UTILITIES TO ORIGINAL CONDITION AND QUALITY AS APPROVED BY THE OWNER AND REPRESENTATIVE OF THE APPROPRIATE UTILITY COMPANY.

G. SUFFICIENT BARRICADES, LIGHTS, SIGNS, AND OTHER TRAFFIC CONTROL METHODS IN ACCORDANCE WITH GOVERNING ORDINANCES MAY BE NECESSARY FOR THE PROTECTION AND SAFETY OF THE PUBLIC. SAID CONTROL DEVICES SHALL BE PER THE MANUAL OF TRAFFIC CONTROL DEVICES, M.U.T.C.D., CURRENT EDITION, AND SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION.

H. TRAFFIC CONTROLS AND OTHER WARNING DEVICES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY WORK ON CITY, COUNTY, OR KENTUCKY TRANSPORTATION CABINET (KYTC) ROADS. THEY SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL THE CONCLUSION OF ALL WORK.

I. ALL WARNING DEVICES SHALL BE EITHER TYPE I BARRICADES OR DRUMS WITH WARNING LIGHTS ON EVERY OTHER DEVICE. THEY SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION, AND FRANKLIN COUNTY FOR COLOR, SIZE, REFLECTIVITY, HEIGHT, AND PLACEMENT.

J. FIRE DEPARTMENT ACCESS SHALL BE MAINTAINED AT ALL TIMES.

K. CONTRACTOR SHALL SHORE AND BRACE ALL EARTH, FORMS, CONCRETE, STEEL, WOOD, AND MASONRY TO RESIST GRAVITY, EARTH, WIND, THERMAL, CONSTRUCTION, AND MISCELLANEOUS LOADS DURING CONSTRUCTION.

L. ON-SITE BURIAL OF DEBRIS IS PROHIBITED.

M. UNLESS OTHERWISE NOTED THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FABRICATED MATERIALS TO THE ENGINEER. DESIGN DOCUMENTS SHALL NOT BE REPRODUCED AS SHOP DRAWINGS.

N. IN CASE OF UNFORESEEN CONSTRUCTION COMPLICATIONS OR DISCREPANCIES, THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE ENGINEER IN WRITING.

O. ALL REQUIRED TESTING REPORTS SHALL BE AVAILABLE AT THE JOB SITE.

P. AS-BUILT DRAWINGS OF ROADWAYS, STORM DRAINS, SANITARY SEWER AND WATER LINES, FIELD APPROVAL BY THE ENGINEER, AND ALL APPLICABLE BONDS ARE REQUIRED PRIOR TO FINAL ACCEPTANCE BY THE OWNER.

Q. CONTRACTOR SHALL MAINTAIN CONTINUOUS UTILITY SERVICE TO ALL EXISTING BUILDINGS THROUGHOUT CONSTRUCTION UNLESS APPROVAL FOR SERVICE INTERRUPTION IS OBTAINED FROM THE OWNERS IN ADVANCE.

R. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO ENSURE THAT THE NEW WORK SHALL FIT INTO THE EXISTING SITE IN THE MANNER INTENDED AND AS SHOWN ON THE DRAWINGS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE PRIOR TO PERFORMING ANY WORK IN THE AREA INVOLVING DIFFERENCES. NOTIFICATION SHALL BE IN THE FORM OF A DRAWING OR SKETCH INDICATING FIELD MEASUREMENTS AND NOTES RELATING TO THE AREA.

S. ANY FOREIGN ITEM FOUND DURING CONSTRUCTION IS THE PROPERTY OF THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, PRECIOUS METALS, COINS, PAPER CURRENCY, ARTIFACTS AND ANTIQUITIES.

T. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES, OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION OF THE WORK, WHETHER CAUSED BY HIMSELF, HIS SUBCONTRACTORS, OR THE CARELESSNESS OF ANY OF HIS EMPLOYEES.

U. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN ALL NECESSARY TEMPORARY WORKS FOR THE PROTECTION OF THE WORK AND THE PUBLIC, INCLUDING BARRICADES, WARNING SIGNS, LIGHTS, ETC.

V. THE CONTRACTOR ACKNOWLEDGES & AGREES THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SITE IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY BY THE OWNER. THE CONTRACTOR WILL INDEMNIFY THE OWNER & OWNER'S REPRESENTATIVE FROM LIABILITY AT THE SITE THROUGHOUT THE CONSTRUCTION PROCESS.

W. THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS AND PAY ALL LEGAL FEES. HE SHALL ALSO COMPLY WITH ALL CITY, COUNTY AND STATE BUILDING LAWS, ORDINANCES OR REGULATIONS RELATING TO BUILDING SIDEWALKS, STREETS, BLASTING, PUBLIC INFRASTRUCTURE, STORMWATER REGULATIONS, ETC.

X. THE CONTRACTOR IS TO CHECK AND VERIFY ALL MEASUREMENTS, LEVELS, ETC. BEFORE ORDERING MATERIALS AND PROCEEDING WITH THE WORK, AND IS TO BE RESPONSIBLE FOR THE SAME.

Y. REFERENCE POINTS AND HUBS DURING THE CONSTRUCTION OF HIS WORK, AND SHALL BEAR THE COST OF REPLACING SAME.

Z. CARE SHALL BE TAKEN TO PROTECT ANY UTILITIES, TREES, ETC. WHICH ARE TO REMAIN AND NOT TO BE DISTURBED BY THE CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES TO SUCH PROPERTY.

DEMOLITION INFORMATION:

1. NOTIFICATIONS:
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND CITY INSPECTOR(S) 24 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION.
2. DISPOSAL GUIDELINES:
- A. ONLY ITEMS SPECIFICALLY NOTED TO BE DEMOLISHED SHALL BE REMOVED FROM THE SITE.

B. REMOVE EXISTING PAVED AREAS AS SHOWN INCLUDING DRIVEWAYS, SIDEWALKS, PARKING AREAS, SERVICE AREAS, EQUIPMENT PADS, AND ALL MISCELLANEOUS PAVING.

C. ALL DEBRIS RESULTING FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL STATE AND FEDERAL REGULATIONS. BACKFILL ALL TRENCHES AND EXCAVATIONS RESULTING FROM DEMOLITION.

D. ALL DEMOLISHED MATERIAL BECOMES THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED.
3. TREE PROTECTION GUIDELINES:
- PROTECT ALL EXISTING TREES NOTED "TO REMAIN" AND ALL ITEMS TO BE TURNED OVER TO THE OWNER DURING DEMOLITION. TAKE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES. ANY EXISTING ITEMS TO BE TURNED OVER TO THE OWNER WHICH ARE DAMAGED DURING DEMOLITION SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE OWNER. TREES WHICH ARE DAMAGED WILL BE REPLACED OR REIMBURSED AT A RATE TO BE DETERMINED BY THE OWNER.
4. UTILITIES:
- A. PRIOR TO REMOVING OR ABANDONING ANY UTILITY THE CONTRACTOR SHALL VERIFY THAT NO UPSTREAM SERVICE WILL BE TERMINATED. THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY TERMINATION NOT SHOWN ON THE PLANS.

B. ALL ABANDONED WATER LINES, STORM SEWER PIPE, SANITARY SEWER PIPES, GAS LINES, OR ANY OTHER ABANDONED UNDERGROUND UTILITY SHALL BE ABANDONED IN PLACE UNLESS NOTED OTHERWISE.

SITE INFORMATION:

1. THE FOLLOWING ARE APPLICABLE TO ALL CIVIL DOCUMENTS:
- A. WHERE A DETAIL SECTION, TYPICAL SECTION, OR A NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS, UNLESS OTHERWISE NOTED ON THE PLANS.

B. EXISTING AND PROPOSED CONTOURS ARE AT ONE (1) FOOT INTERVALS.

C. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

D. ALL PIPE LENGTHS SPECIFIED IN THESE PLANS ARE THE HORIZONTAL DISTANCE AND ARE SHOWN FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE ACTUAL LENGTHS BASED ON PROPOSED PIPE SLOPE.

E. PIPE LENGTHS IN PLANS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.

EROSION AND SEDIMENT CONTROL INFORMATION:

1. COMPREHENSIVE:
- A. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO OR CONCURRENT WITH LAND-DISTURBING ACTIVITIES.

B. PROVISIONS TO PREVENT EROSION OF SOIL FROM THE SITE SHALL BE AT A MINIMUM IN CONFORMANCE WITH THE REQUIREMENTS OF THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL AND FIELD GUIDE. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

C. FAILURE TO INSTALL, OPERATE, OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN ALL CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED BACK TO THE STANDARDS SPECIFIED IN THE KENTUCKY EROSION PREVENTION AND SEDIMENT CONTROL MANUAL AND FIELD GUIDE, CURRENT EDITION.

D. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

E. EROSION CONTROL DEVICES SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.

F. THE CONSTRUCTION OF THE SITE WILL COMMENCE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.

G. CONSTRUCTION EXITS SHALL BE CONSTRUCTED AT EACH POINT OF ENTRY OR EXIT FROM THE SITE AND SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH STONE AS CONDITIONS DEMAND, REPAIR, AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OFF SITE ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY. ACCESS POINTS PROTECTED WITH A CONSTRUCTION EXIT SHALL BE OTHERWISE BARRICADED UNTIL THE SITE IS STABILIZED.

ADA COMPLIANCE:

- A. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.

B. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.

C. ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.

D. ANY COMPONENTS OF THE PROJECT SERVING MULTIFAMILY DWELLINGS IN BUILDINGS THAT HAVE 4 OR MORE UNITS PER DWELLING SHALL ALSO CONFORM TO THE FAIR HOUSING ACT (FHA), AND COMPLY WITH THE FAIR HOUSING ACT DESIGN MANUAL BY THE US DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT.

E. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.

F. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.

CONCRETE INFORMATION (SITE WORK ONLY):

1. PRODUCT CRITERIA:
- A. UNLESS OTHERWISE NOTED CEMENT SHALL BE TYPE I OR III CONFORMING TO ASTM C150. AGGREGATES SHALL BE NORMAL WEIGHT CONFORMING TO ASTM C33.

B. CONCRETE SHALL CONFORM TO ACI BUILDING CODE (318-89). UNLESS NOTED CONCRETE SHALL BE NORMAL WEIGHT AND HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,500 P.S.I.

C. SLUMP SHALL BE 3" TO 5" FOR REGULAR MIX. LARGER SLUMP SHALL BE PERMITTED WITH WATER REDUCING ADMIXTURES AND WRITTEN CONSENT OF THE ENGINEER.

D. THE RELATIONSHIP BETWEEN MAXIMUM AGGREGATE SIZE TO MINIMUM AMOUNT OF CEMENT IN CONCRETE PAVEMENT (L.B. PER C.Y. OR MIX) SHALL BE AS FOLLOWS: 1" - 520, 3/4" - 540, 1/2" - 590, 3/8" - 610.
2. CURING CRITERIA:
- A. CONCRETE CURING SHALL COMPLY WITH ACI 308. CURING PROCESS SHALL START IMMEDIATELY FOLLOWING INITIAL SET. CURING SHALL BE BY CURING COMPOUND.

B. CONCRETE EXPOSED TO THE WEATHER SHALL BE AIR-ENTRAINED IN ACCORDANCE WITH ACI 318-89 TABLE 4.1.1. NORMAL WEIGHT CONCRETE SLABS SHALL HAVE AIR CONTENT IN ACCORDANCE WITH ACI 302.IR-89 TABLE 5.2.7A.

C. HOT WEATHER CONCRETING SHALL COMPLY WITH ACI 305. NO CONCRETE ABOVE 90 DEGREES FAHRENHEIT SHALL BE POURED. LOWER CONCRETE TEMPERATURE BY COOLING WATER AND AGGREGATE. FORMS, STEEL, AND SUBGRADE SHALL BE SPRINKLED WITH COLD WATER. AFTER FINISHING CONCRETE USE LIGHT FOG SPRAY UNTIL CURING COMPOUND IS USED.

D. COLD WEATHER CONCRETING SHALL COMPLY WITH ACI 306. SPECIAL MATERIAL PROCEDURES SHALL BE PROVIDED DURING PLACING AND CURING OF CONCRETE BELOW 40 DEGREES FAHRENHEIT.

E. E CURING, HOT, AND COLD WEATHER CONCRETING PROCEDURES ARE ONLY GIVEN AS A GUIDE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREVENT CONCRETE DAMAGE AND CRACKS. DAMAGED OR CRACKED CONCRETE WILL NOT BE ACCEPTED.

REINFORCING STEEL INFORMATION (SITE WORK ONLY):

1. PRODUCT CRITERIA:
- A. REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 AND GRADE 40 FOR #3 AND SMALLER BARS. MINIMUM LAP 48" DIAMETER.

B. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185, MINIMUM LAP SHALL BE 8".

C. REINFORCING THAT IS WELDED SHALL BE WELDABLE TYPE AND CONFORM TO ASTM A-706.

PAVEMENT INFORMATION:

1. PAVEMENT:
- A. ALL MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION, AND WORKMANSHIP SHALL CONFORM TO THE KENTUCKY TRANSPORTATION CABINET, KYTC, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, CURRENT EDITION.

B. SEE PAVEMENT DETAILS ON CONSTRUCTION DOCUMENTS FOR SPECIFIC DESIGN INFORMATION AND REQUIREMENTS.

C. ALL CURB AND GUTTER TO BE 24" AND CONSTRUCTED OF 3000 P.S.I. CONCRETE UNLESS OTHERWISE NOTED.
2. SIGNING AND STRIPING:
- A. SIGNING AND STRIPING TO BE PROVIDED BY THE CONTRACTOR ACCORDING TO THE DRAWINGS AND SPECIFICATIONS.

B. ALL PAVEMENT MARKINGS SHALL CONFORM TO CURRENT MUTCD STANDARDS. ALL PAVEMENT MARKINGS ON PRIVATE PROPERTY SHALL BE PAINT, UNLESS NOTED OTHERWISE. ALL PAVEMENT MARKINGS ON PUBLIC RIGHT-OF-WAY SHALL BE THERMOPLASTIC, UNLESS NOTED OTHERWISE.

STORM SEWER NOTES:

1. REINFORCED CONCRETE PIPE SHALL BE RCP CLASS III UNLESS OTHERWISE NOTED WITH BELL-AND-SPIGOT AND GASKETED JOINTS WITH ASTM C 443 RUBBER GASKETS.

2. FILL HEIGHTS OVER 13' REQUIRE CLASS IV RCP STORM PIPE.

3. STORM INLETS SHALL BE PRECAST IN ACCORDANCE WITH FRANKLIN COUNTY PUBLIC WORKS.

4. ALL MANHOLE FRAMES AND COVERS ARE TO BE PER FRANKLIN COUNTY PUBLIC WORKS STANDARD DETAIL FOR DIMENSIONS AND MATERIALS IF NOT OTHERWISE INDICATED.

5. MATERIAL: GRAY IRON ASTM A48 CLASS 30 UNLESS OTHERWISE INDICATED.

6. ALL HDPE PIPE SHALL BE CORRUGATED HIGH DENSITY POLYETHYLENE SMOOTH INTERIOR PIPE. HDPE PIPE SHALL CONFORM TO ASTM D3350 WITH SOIL TIGHT JOINTS.

7. ALL HDPE SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND AASHTO SECTION 30.

8. CONTRACTOR TO PROVIDE AND INSTALL MANUFACTURER RECOMMENDED FITTINGS ON RCP CONNECTIONS TO HDPE STRUCTURES.

9. REFER TO PIPE CHART FOR CASTING TYPES. INSTALL REDUCERS AS NECESSARY PER MANUFACTURER'S SPECIFICATIONS TO ACCOMMODATE LARGER INLET SIZES.

10. FOLLOW CONSTRUCTION PLANS AND MANUFACTURER DETAILS, SPECIFICATIONS, AND INSTALLATION INSTRUCTION AS INCLUDED WITHIN THE PLANS AND PROVIDED BY MANUFACTURER FOR THE INSTALLATION OF WATER QUALITY AND DETENTION SYSTEMS.

11. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STORM SEWER PIPE, STRUCTURES, WATER QUALITY STRUCTURES, AND DETENTION STRUCTURES FOR ENGINEER AND OWNER APPROVAL PRIOR TO ORDERING MATERIALS.

CLEARING AND GRUBBING:

- A. DO NOT EXCEED CLEARING AND GRUBBING LIMITS OF CONSTRUCTION LINES INDICATED ON THE PLANS.

B. ALL AREAS OUTSIDE THE LIMITS OF CONSTRUCTION LINE SHALL NOT BE CROSSED BY HEAVY EQUIPMENT OR USED FOR STORING HEAVY EQUIPMENT OR MATERIALS.

C. NO EQUIPMENT SHALL BE STORED UNDER THE DRIP LINE OF TREES TO REMAIN.

D. DO NOT FALL ANY TREES OR PUSH PILES OF DEBRIS AGAINST ANY TREES TO REMAIN.

E. REMOVE ALL STUMPS, ROCKS, ASPHALT & CONCRETE DEBRIS, ETC. AND DISPOSE OFF SITE IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.

F. CONTACT ALL UTILITY AUTHORITIES WHO HAVE LINES WITHIN THE CLEARING AND GRUBBING LIMITS BEFORE STARTING WORK

E. ALL EROSION CONTROL SEDIMENT BARRIERS, SILT FENCES, AND TREE PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO STARTING CLEARING AND GRUBBING.

F. AFTER STAKING IS COMPLETED, TREES WITHIN GRADING LIMITS TO BE SAVED WILL BE IDENTIFIED BY THE OWNER'S REPRESENTATIVE. FIELD CHANGES TO GRADING PLANS SHALL BE MADE FOR SMOOTH TRANSITION OF GRADES AROUND ALL TREES WHICH REQUIRE TREE WELLS WITHIN THE GRADING LIMITS.

G. ALL CLEARING SHALL BE LIMITED TO AREAS TO BE GRADED WITHIN 15 CALENDAR DAYS.

GRADING NOTES:

- A. TOPSOIL SHALL BE STORED ON SITE IN LOCATIONS APPROVED BY THE OWNER'S REPRESENTATIVE. DRAINAGE SHALL ROUT AROUND THESE TOPSOIL STOCKPILES FOR THE DURATION OF THE GRADING OPERATIONS. EROSION CONTROL MEASURES SHALL PREVENT THE LOSS OF TOPSOIL MATERIAL.

B. UNSUITABLE SOILS SHALL BE UNIFORMLY SPREAD ACROSS NON-STRUCTURAL FILL AREAS AND COVERED WITH TOPSOIL AND SEEDED.

C. FILL AREA SHALL BE PROOF-ROLLED WITH RUBBER-TIRED EQUIPMENT WITH A MINIMUM WEIGHT OF FIFTEEN TONS PRIOR TO BEGINNING FILL OPERATION. AREAS WHICH ARE SOFT OR UNSTABLE SHALL BE UNDERCUT UNTIL STABLE SOILS ARE FOUND. RE-COMPACTION OF THESE SOILS SHALL BE TO 98% MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR).

D. CUT AREA SHALL BE PROOF-ROLLED AFTER FINAL SUBGRADE IS ACHIEVED IN THE SAME MANNER AS FILLED AREAS. SOFT OR UNSTABLE SOILS SHALL BE SCARIFIED TO A DEPTH OF 12" AND RE-COMPACTED TO 98% MAXIMUM DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR).

E. ALL GRADING SHALL BE COMPLETED TO THE LEVEL INDICATED BY THE SCOPE OF WORK LISTED IN THE BID DOCUMENTS.

F. ELEVATIONS SHOWN ON THE PLANS IS THE FINISH GRADE ELEVATION.

G. GRADING SHALL BE SEQUENCED SO THAT BASE STONE IS PLACED WITHIN 10 CALENDAR DAYS PF ACHIEVING OPTIMUM SUBGRADE COMPACTION.

H. SOILS TESTING LABORATORY/ SOILS ENGINEER. CONTRACTOR WILL EMPLOY A QUALIFIED SOILS TESTING LABORATORY/ ENGINEER TO OBSERVE THIS WORK AND MAKE TESTS AS REQUIRED.

I. HAVE EARTH BORROW FILL, AGGREGATE, AND TOPSOIL, AND STRUCTURAL FILL TESTED AND APPROVED BY DESIGNATED TESTING LABORATORY BEFORE MOVING IT TO THE JOB SITE.

J. CONTRACTOR SHALL OBSERVE PROOF-ROLLING OF AREAS WHERE BUILDING AND PAVING WILL BE LOCATED TO DETERMINE ADEQUACY OF SOIL COMPACTION AND IN-PLACE SOILS. OTHER AREAS WILL BE INSPECTED BY SOILS ENGINEER TO DETERMINE ADEQUACY IN THOSE AREAS. IF SOILS ARE NOT ADEQUATE TO BEAR WEIGHTS THAT WILL BE IMPOSED, TESTING LABORATORY WILL OBSERVE AND REPORT CORRECTIVE ACTION TAKEN.

K. TEST IN-PLACE SOIL AND FILLED AND COMPACTED AREAS. IF THESE ARE NOT ADEQUATE TO BEAR WEIGHTS IMPOSED, TESTING LABORATORY WILL ADVISE THE OWNER'S REPRESENTATIVE OF THEIR RECOMMENDATIONS. HE WILL DIRECT ANY CORRECTIVE MEASURES THAT ARE NECESSARY.

L. SOILS COMPACTION TESTING OF IN-PLACE AND FILLED AND COMPACTED AREAS WILL BE PERFORMED BY TESTING LABORATORY IN ACCORDANCE WITH THEIR REQUIREMENTS.

M. THE SOILS ENGINEER'S AND TESTING LABORATORY'S FEES WILL BE PAID BY THE CONTRACTOR.

N. APPLICABLE SPECIFICATIONS FOR COMPACTED FILL: THE FOLLOWING CURRENT AMERICAN SOCIETY OF TESTING MATERIALS (ASTM) STANDARDS ARE HEREBY MADE PART OF THIS SPECIFICATION:
 - D421-58, DRY PREPARATION OF SOIL SAMPLES FOR GRAIN-SIZE ANALYSIS AND DETERMINATION OF SOIL CONSTANTS.
 - D422-63, STANDARD METHOD OF PARTICLE SIZE ANALYSIS OF SOILS.
 - D1140-54, METHOD OF TEST FOR AMOUNT OF MATERIAL IN SOILS FINER THAN NO.200 SIEVE.
 - D698, METHOD FOR LABORATORY COMPACTION CHARACTERISTICS OF SOIL USING STANDARD EFFORT
 - D1557-78, STANDARD TEST METHODS FOR MOISTURE-DENSITY RELATIONS OF SOILS AND SOIL-AGGREGATE MIXTURES USING 10 LB. (4.54-KG) RAMMER AND 18-INCH (457 MM) DROP.

O. PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDINGS AT ALL LOCATIONS UNLESS OTHERWISE NOTED.

P. CONTRACTOR SHALL REVIEW THE SITE SPECIFIC GEOTECHNICAL REPORT PRIOR TO COMMENCING WITH GRADING OPERATIONS. WHERE CONFLICTS BETWEEN THE GRADING NOTES AND GEOTECHNICAL REPORT EXIST, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

Q. CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING WITH LOAD TICKETS, PHOTOGRAPHS, LOG BOOK, VIDEO RECORDING AND OTHER MEANS AS NECESSARY TO VERIFY THE INSTALLATION OF STORMWATER BEST MANAGEMENT PRACTICES REQUIRED BY THE LOCAL MUNICIPALITY AND JURISDICTION. AS-BUILT TOPOGRAPHY AND UTILITY PLANS HAVING BEEN PREPARED BY A QUALIFIED LAND SURVEYOR ARE REQUIRED TO BE SUBMITTED TO KIMLEY-HORN AT THE CONCLUSION OF THE PROJECT FOR VERIFICATION OF DESIGN INTENT. ANY MODIFICATIONS TO THE GRADING AND UTILITY SYSTEMS REQUIRED, NOT PREVIOUSLY APPROVED BY THE OWNER AND ENGINEER ARE THE RESPONSIBILITY OF THE CONTRACTOR.

PERMIT SET

REVISIONS:
12/15/2021
DEVELOPMENT PLAN RESUBMITTAL
12/28/2021
DEVELOPMENT PLAN RESUBMITTAL

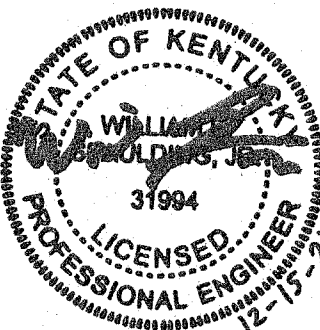
CIVIL GENERAL NOTES



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Kimley»Horn

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Charles William Pope
& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 12/28/2021
JOB NO: 118423003
DRAWN BY:
SHEET NUMBER:

2.5.1



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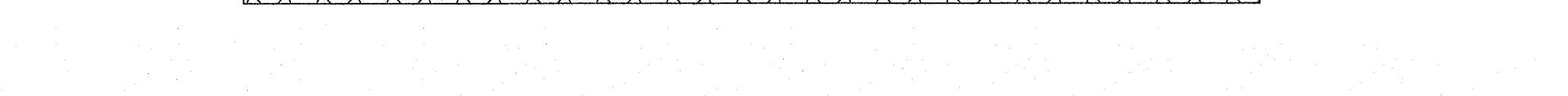
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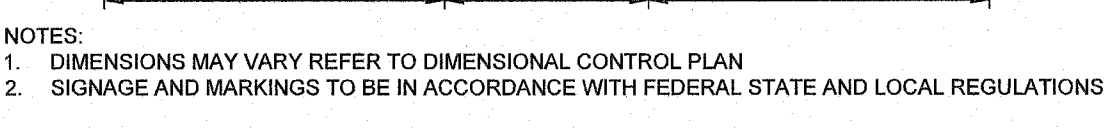
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RAMP
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— RIBBON CURB



405.2 - SLOPE - RAMP RUNS SHALL HAVE A RUNNING SLOPE

THE BARRIER FREE RAMP

#3 BARS AT 24" C-C BOTH WAYS



1. PROVIDE
2. PROVIDE
WITH PR
REDWOOD

- N-SITE CONCRETE SIDEWALK

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Table 1. Mean values of variables measured during the 60-min test

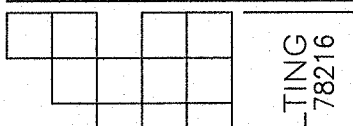
	Mean ± SD
Heart rate (beats min ⁻¹)	178 ± 19
Stroke volume (L)	100 ± 15
Cardiac output (L min ⁻¹)	17.8 ± 2.5
Systolic blood pressure (mmHg)	160 ± 15
Diastolic blood pressure (mmHg)	90 ± 10
Mean arterial pressure (mmHg)	100 ± 10
Arterial oxygen saturation (%)	98 ± 2
Ventilatory threshold (L min ⁻¹)	20.5 ± 2.5
Lactate threshold (W min ⁻¹)	200 ± 30
Peak power (W min ⁻¹)	300 ± 40
Time to exhaustion (min)	10.5 ± 1.5

Journal of Management Education 30(6)

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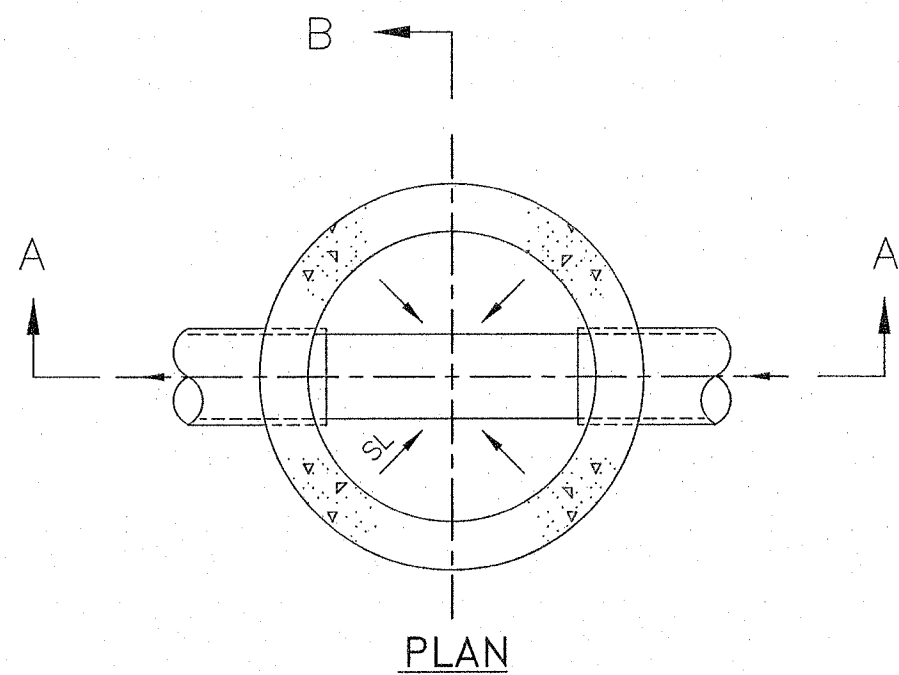
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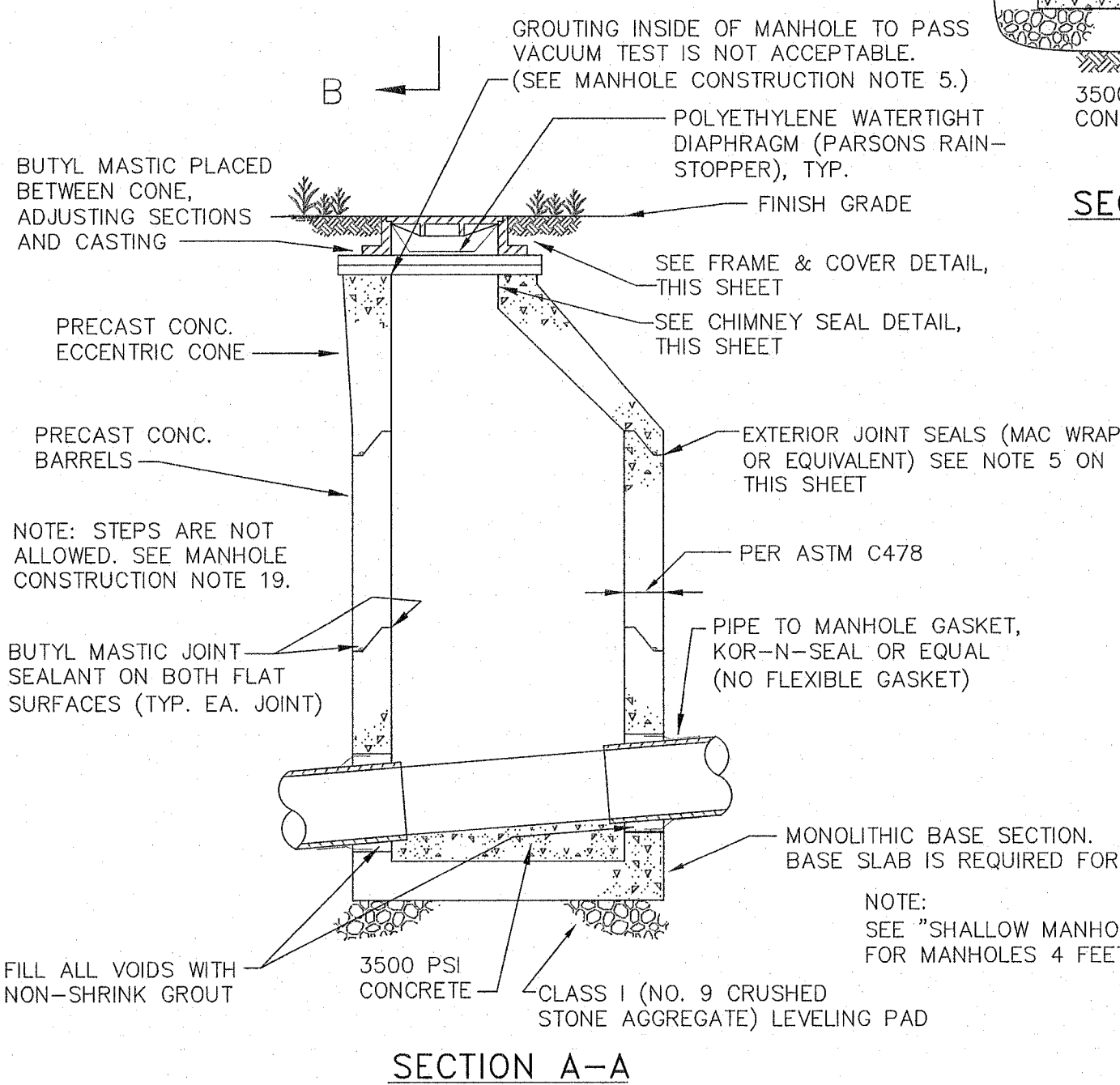
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MANHOLE CONSTRUCTION NOTES

- Manholes with precast base sections or bottom slabs must be provided, unless written permission is obtained prior to construction (See Standard Manhole detail). Invert of manhole shall be performed by the precast manufacturer and shall contain the Xypex admixture (see Notes 13 & 20)
- Precast concrete sections and appurtenances shall conform to the ASTM Standard Specifications for precast reinforced concrete manhole sections, designation C478, latest revision.
- Manholes with precast holes for pipe must be provided with rubber boot (factory installed pipe to manhole gasket) to seal out water. Brick Manholes should be provided with a water stop end seal to seal out water around the incoming pipe at the pipe manhole interface.
- Base slab is required for Manholes 5 ft. and larger in diameter and for manholes with a depth of 15 ft. or greater. Base slab can be round or square. The nominal dimension shall be 1 ft. wider than O.D. of Manhole. Base section shall be monolithic for 4 ft. diameter manholes.
- No grout will be allowed at barrel section joints.
All joints on manhole barrel sections shall have a two-way sealing system:
 - Butyl Mastic joint sealant should be applied on both flat surfaces of the manhole barrel section. Butyl mastic joint sealant is also required between the manhole cone, adjusting sections and frame.
 - Exterior Joint Seals (MAC WRAP or equivalent) shall be installed around each Manhole Barrel Joint. Wrap Strap shall have an Integral Ratcheting Mechanism and not a Strap that requires a Removable Tool.
- * Exterior joint collars must be inspected by FSD prior to backfilling.**
- All manholes shall be installed with internal or external manhole frame (chimney) seals (Cretex or equivalent). See detail, this sheet.
- Invert elevation of inflow pipe shall equal or exceed the invert elevation of the outflow pipe. Minimum vertical drop across Manhole is 0.10 ft. The bench and invert of the manhole shall have a smooth finish.
- For a vertical drop less than 2.0 feet, a swoop is required to introduce flow in the same direction as flow in the collector pipe. For a vertical drop of 2.0 feet or more through a manhole, a drop manhole is required.
New manholes shall have precast outside drop construction. Connections to existing manholes shall be inside drop construction.
- Pipes shall not enter the cone section of the Manhole or within 4 inches of the manhole joints.
- The manhole lids must have "FSD" cast in the lid. (See Frame and Cover detail, this sheet.)
- The manhole frames must be anchored with four (4) 5/8" anchor nuts and bolts.
- Cast-in-place concrete shall be Kentucky Dept. of Highways Class "A", with a minimum 28-day compressive strength of 3,500 PSI.
- For all manholes, concrete structures, and concrete pipe, Xypex Admix C-1000R with red dye shall be added to the concrete during batching operations to provide chemical resistance and waterproofing. The Xypex Admix C-1000R shall be added at 3.5%, including dye, of the weight of Portland Cement. The amount of cement shall remain the same and shall not be reduced. A colorant shall be added at the Xypex manufacturing plant.



PLAN



SECTION A-A

STANDARD MANHOLE

N.T.S.

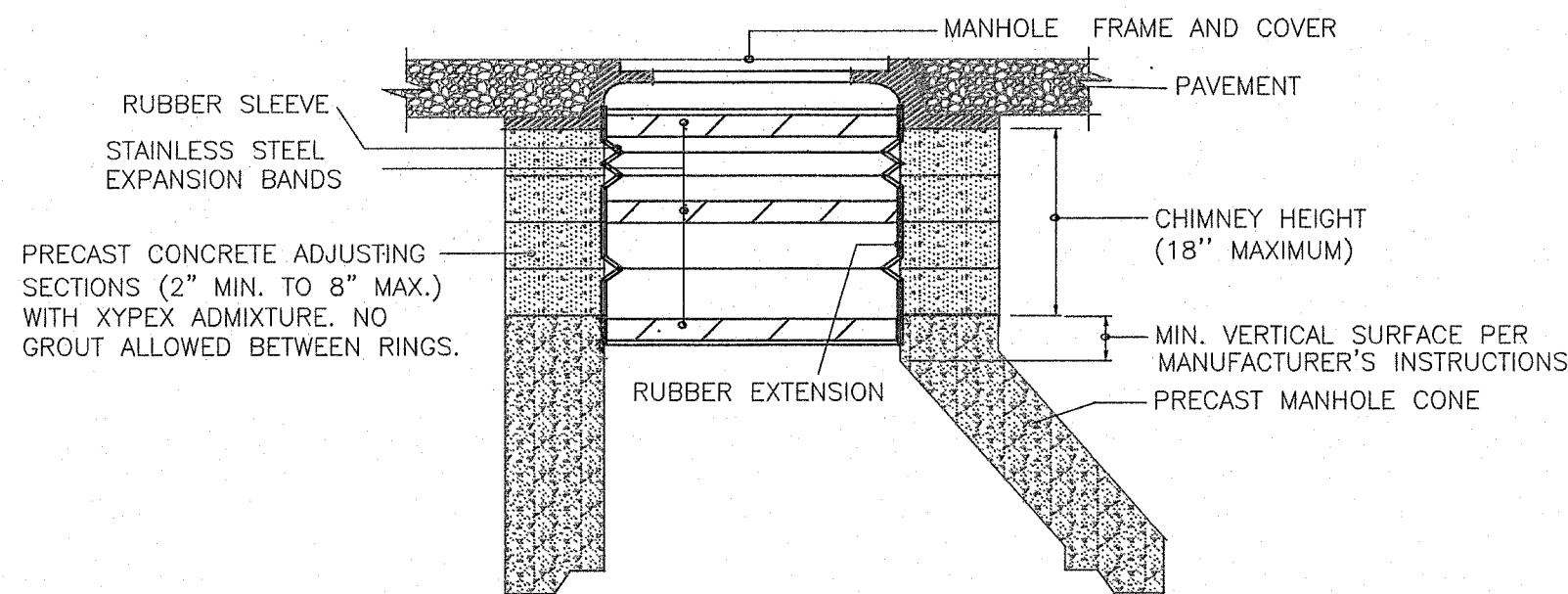
14. Minimum Manhole diameters based on inflow and outflow pipe sizes (outside diameter) are as follows:

MANHOLE DIA.	MAX. PIPE O.D. ALLOWED*
--------------	-------------------------

4 ft.	30 in.
5 ft.	44 in.
6 ft.	51 in.
8 ft.	72 in.

* For straight through pipes to a 45° deflection. Deflection angles greater than 45° for 12 inch or larger sewers will require special approval of the Frankfort Sewer Department (FSD).

- Manholes exceeding 15 feet in depth, manholes 5 ft. or larger in diameter and all drop manholes must be approved by the Frankfort Sewer Department prior to construction. The precast supplier should be given the manhole depth by the Contractor to properly design reinforcement.
- All manholes shall be installed with a polyethylene watertight diaphragm (Parsons Rainstopper) under lid. Diaphragm shall have lifting straps and shall not have valves.
- If an existing manhole is modified, it shall be brought up to current specifications, including testing.
- Height of the manhole and angles and pipe diameters of openings are the responsibility of the contractor. It is the Contractor's responsibility to confirm manhole depths in profiles, and pipe diameters and manhole angles for pipes in plan views of the contract drawings. FSD approval does not include the manhole height or positions of the openings.
- No steps shall be allowed in manholes. If manholes are delivered with steps they shall be returned to the manufacturer. Any manholes originally produced with steps that are installed shall be removed and replaced.
- Manhole benches shall have Xypex Admixture.

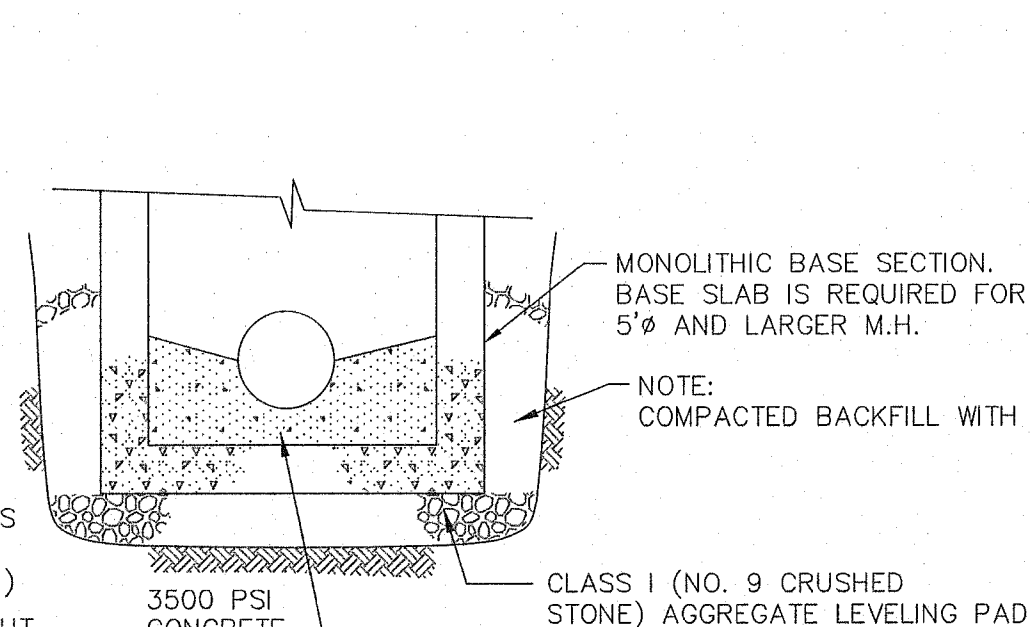


NOTES:

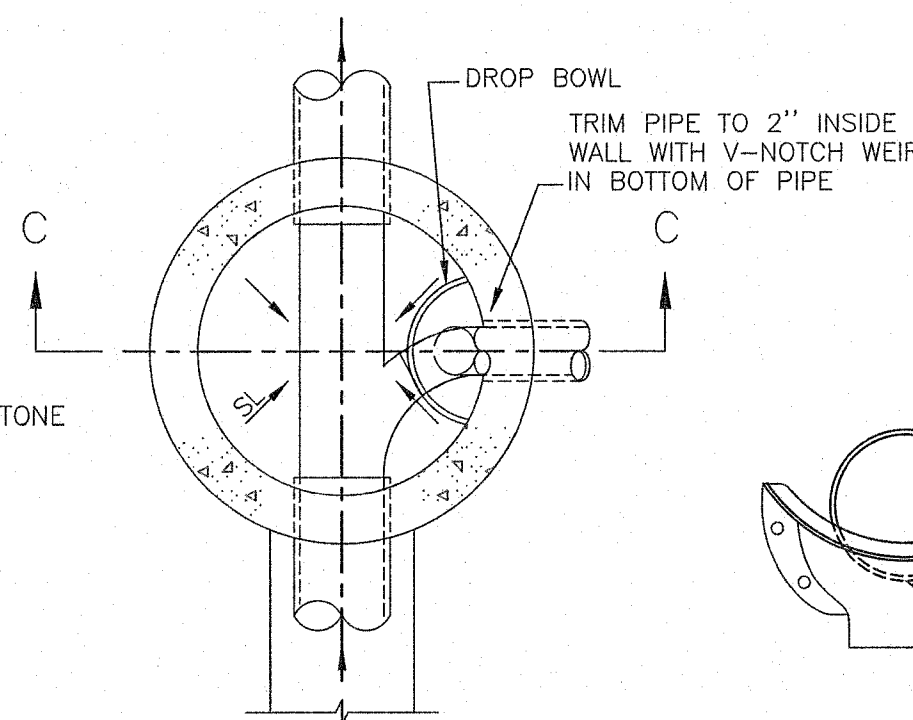
- See manufacturer's instructions for seal and extension combinations needed to span from the frame to the top of the cone on manholes with various chimney heights. Frame offsets or diameter differentials will reduce these span heights.
- An external chimney seal may be installed instead of an internal chimney seal for new manholes. Exterior chimney seals must be inspected by FSD prior to backfilling.
- Internal chimney seal shall be installed after the manhole passes a vacuum test.

INTERNAL MANHOLE CHIMNEY SEAL W/EXTENSION - PRECAST MANHOLE

NO SCALE

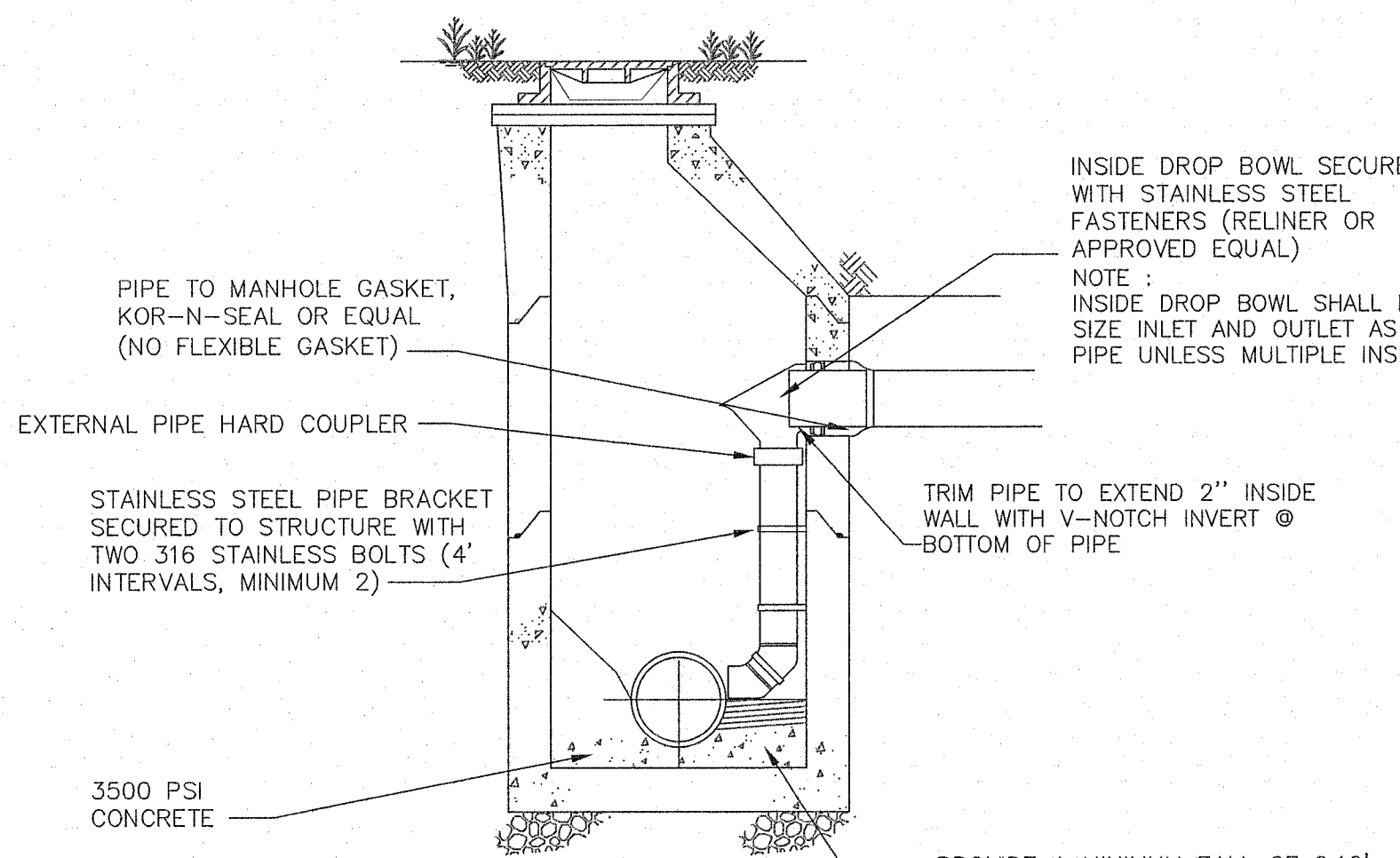
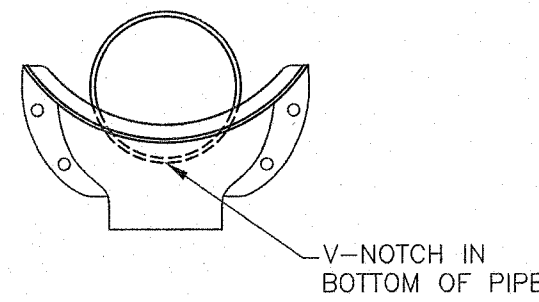


SECTION B-B



PLAN

DROP BOWL MOUNTING POSITION

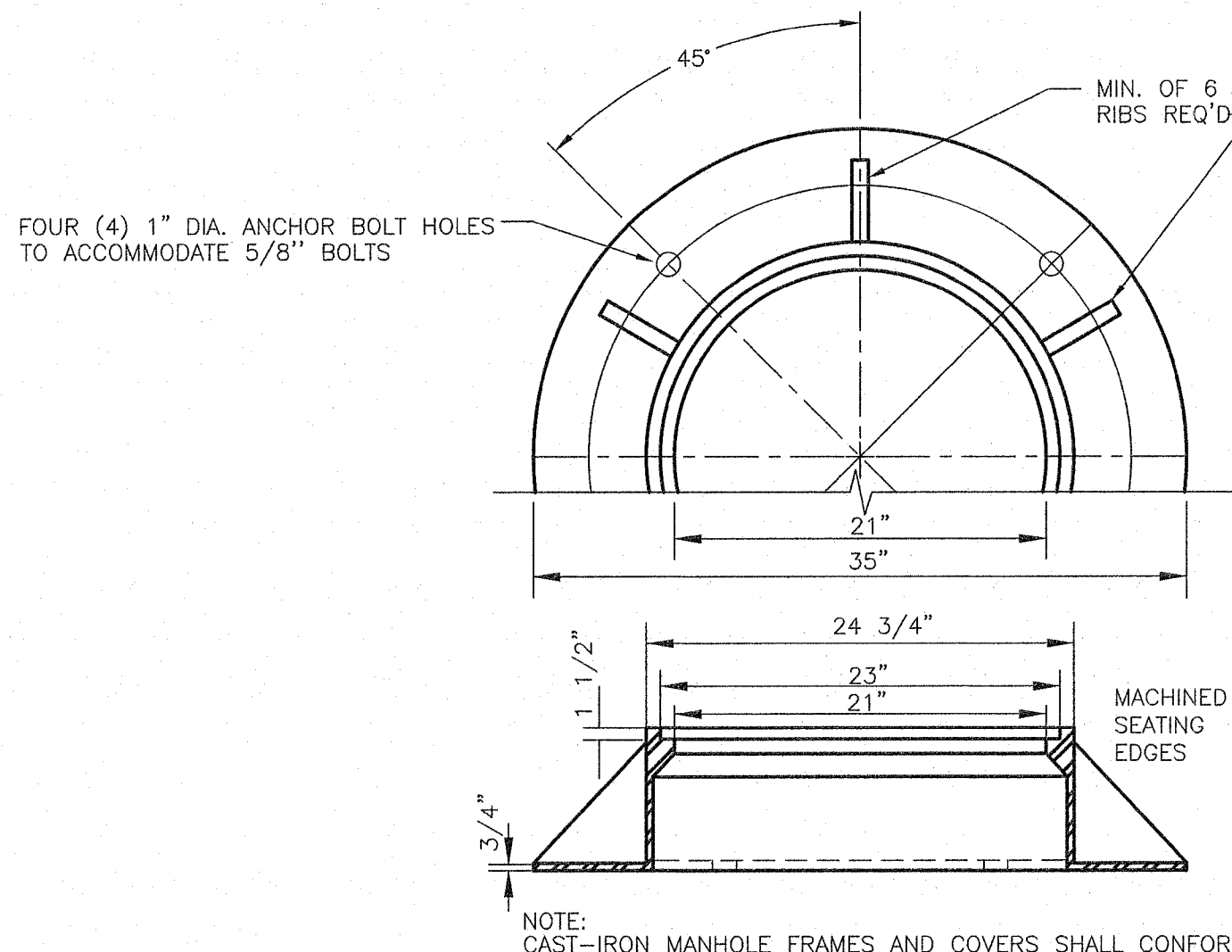


SECTION C-C

INSIDE DROP MANHOLE

N.T.S.

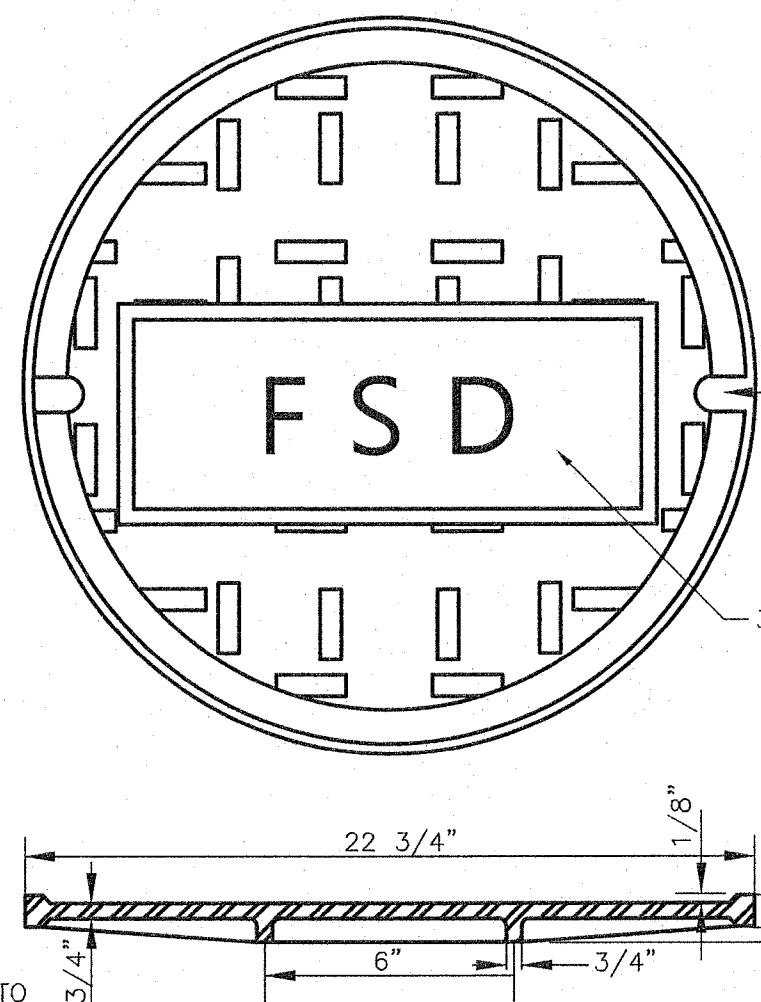
(FOR CONNECTION TO EXISTING MANHOLES ONLY)



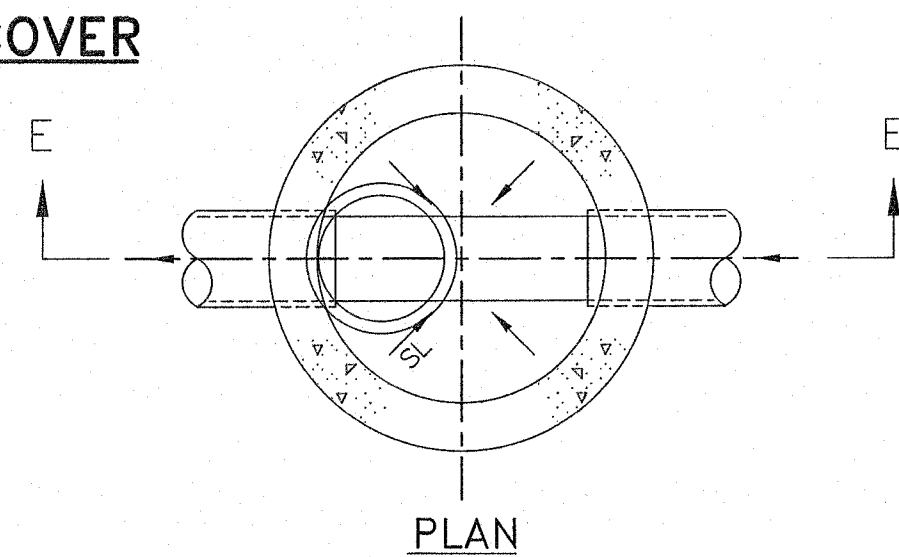
FRAME

MANHOLE FRAME AND COVER

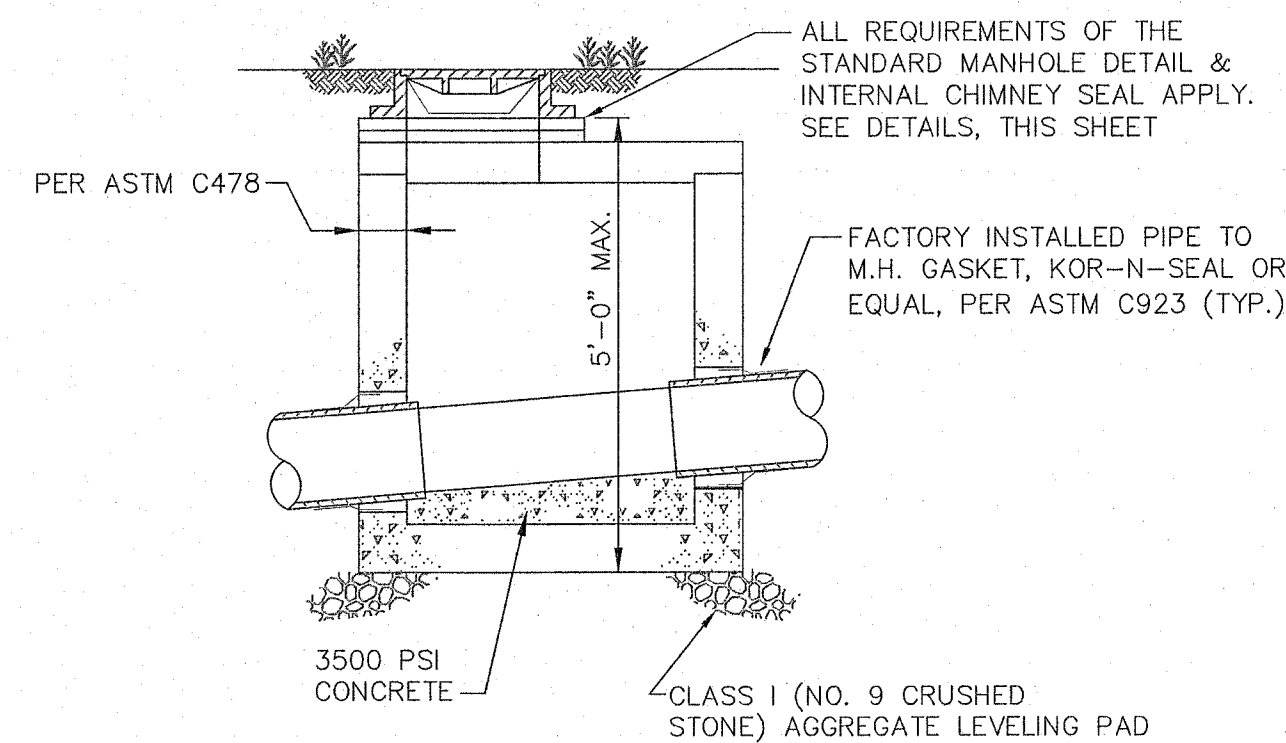
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COVER



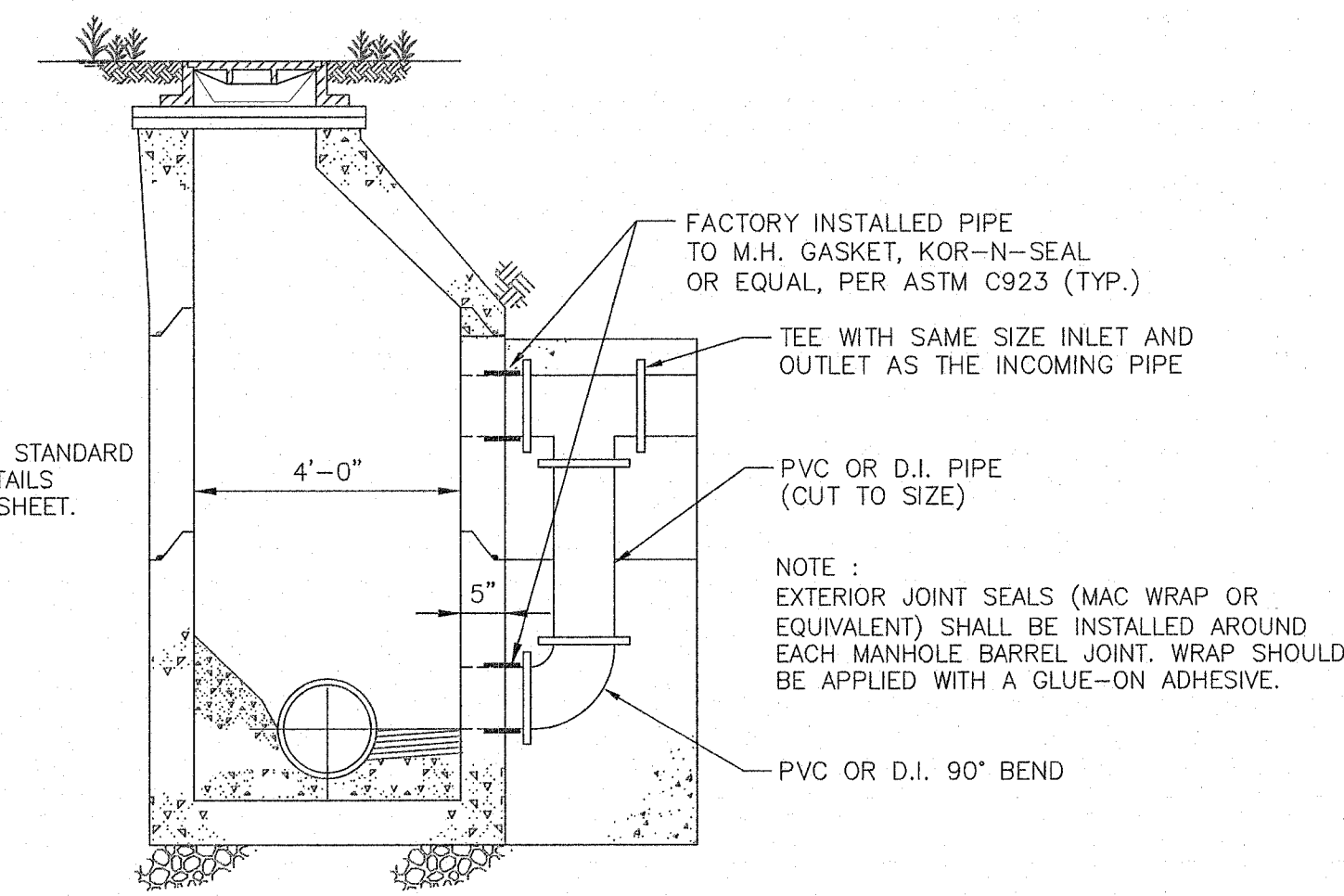
PLAN



SECTION E-E

SHALLOW MANHOLE

N.T.S.



SECTION D-D

PRECAST OUTSIDE DROP MANHOLE

N.T.S.

SEE STANDARD MH DETAIL A-A AND MH CONSTRUCTION NOTES FOR ALL OTHER DETAILS OF DROP MANHOLES

REVISIONS:
12/15/2021
DEVELOPMENT PLAN RESUBMITTAL
12/28/2021
DEVELOPMENT PLAN RESUBMITTAL

CITY OF FRANKFORT SEWER DEPT. DETAILS
BURGER KING
Arrowhead Court
Frankfort, KY 40356

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LICENSED PROFESSIONAL ENGINEER
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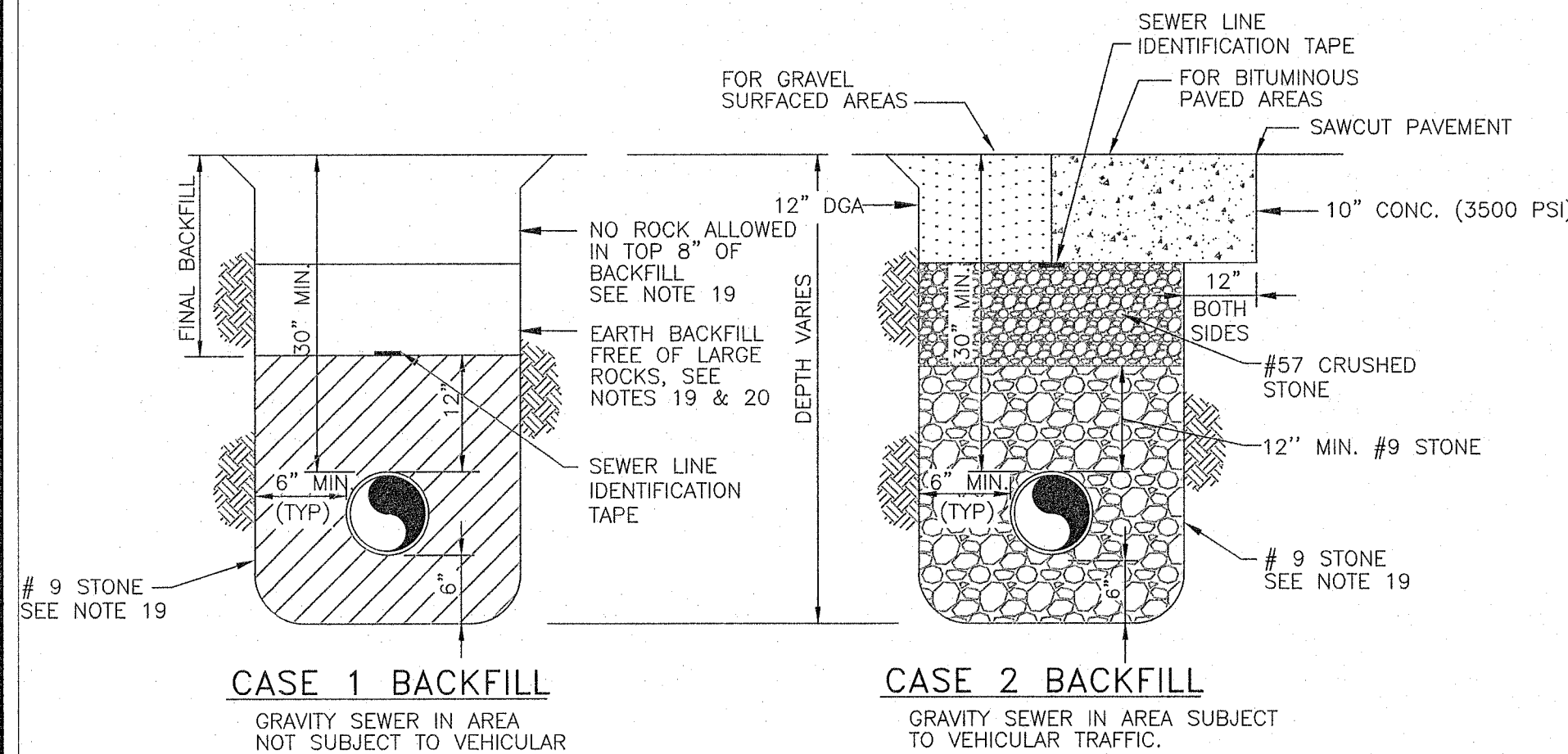
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JOB NO: 118423003
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2.5.3

Drawing name: \\kimley-horn.com\saas\ash\NSH_LDEVI118423003 - burger king - frankfort 194-CAD\DWG\plan\sewer\2.5.4 CITY OF FRANKFORT SEWER DEPT. DETAILS Dec 23, 2021 2:41pm by: Madison Molozes
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GENERAL SPECIFICATIONS

- PVC sewer pipe shall be SDR 35 and shall conform to ASTM D3034. For bury depths greater than 15 feet, SDR 26 PVC pipe or ductile iron pipe (DIP) is required. DIP shall conform to ANSI A21.50 (AWWA C 150) latest revision. DIP must be coated internally with Protecto 401 coating. **Coating must be inspected by the Frankfort Sewer Department (FSD) prior to installation.**
- Gravity lines, force mains and lateral lines must be encased in #9 crushed stone as shown on standard details. Top: 12 inches. Bottom and Sides: 6 inches. See Case 1 and Case 2 Backfill Detail, this sheet.
- Mylar sewer line identification tape is required for all gravity sewer mains, force mains and laterals. Tape shall be green metallic back and 3 inches wide.
- All sewer lines must be installed in a dedicated right-of-way or sewer easement. The minimum easement width is 15 feet, with the main line centered in the easement. Easement documents must be prepared, reviewed and approved by the City Attorney. Easements shall be properly recorded, with a copy of the stamped documents provided to FSD. Easements are required for any sewer mains crossing through private property.
- A complete set of As-Built drawings shall be provided to FSD after the construction has been completed.
- Each sheet of the As-Built drawings shall be sealed (or stamped), signed, and dated by a Professional Engineer licensed in the Commonwealth of Kentucky. Revisions to the As-Built drawings must be stamped, signed, and dated on each page.
- Buildings must be set-back from the sewer easement so the building foundation will not be undermined. The set-back must be greater than a 45-degree line from the edge of the trench at the pipe invert to its intersection with the foundation elevation.
- Sewers on 20% slope or greater shall be anchored securely with concrete (or equivalent) pipe anchors, see drawing G3 for detail.
- Aerial crossings, when necessary, shall be designed and constructed in accordance with Ten State Standards. Support shall be provided for all pipe joints. The supports shall be designed to prevent frost heave, overturning, and settlement. Precautions against freezing, such as insulation and increased slope, shall be provided. The impact of flood waters and debris shall be considered.
- FSD requires that each lot have a separate lateral that does not cross into any other lots. The laterals must extend five (5) feet into the lot. Each lot must have a 6-inch double wye installed at the right-of-way, property or easement line. The cleanout stub shall extend 3 to 5 feet above ground. See dwgs. G2 & G3 for details.
- FSD may issue tap permits only after 1) all installation, 2) the 30 day waiting period, 3) testing and paperwork requirements are met and 4) the easements are approved and recorded.
- FSD tap permits are issued from the main office at 1200 Kentucky Avenue. FSD will charge a capacity fee for each additional apartment unit, house, or building based on number and size of water meters on lot. See ordinance for details.
- No sanitary sewer building connection, which is not at least 12 inches above the top of the lowest of the two adjacent public sanitary sewer manholes, shall be connected by gravity drainage.
- After the plumber has connected the building lateral to the sewer, he shall contact FSD for an inspection of the tie-in. FSD personnel will place a sticker on the structure indicating "approved" or "not approved" and FAX the results to the City-County Planning Office.
- These drawings and specifications represent standards adopted by the FSD. These drawings are not a substitute for detailed design and engineering. Sewers shall be designed in accordance with the Recommended Standards for Wastewater Facilities, 2004 Edition (Ten States Standards). Construction plans and specifications must be approved by the Kentucky Division of Water (DOW). A construction permit must be obtained from DOW before sewers can be installed.
- Field changes to approved plans must be authorized by the Design Engineer and submitted to the FSD for review and approval.
- The FSD reserves the right to check for compliance with the Department's specifications and standards at any time during construction and prior to the Department's acceptance of the sewers. Failure to construct to FSD standards will result in removal and replacement at the contractor's expense.
- PVC Pipe for Gravity Sewer shall be green or white only.
- All crushed stone, DGA and earth backfill shall be compacted in 0'-6" lifts (maximum) under and around the sanitary sewer pipe to 1'-0" over top of pipe and 1'-0" lifts (maximum) from 1'-0" over pipe to bottom of 10" concrete cap. Backfill which has not been properly compacted shall be completely removed and replaced at the contractor's expense.
- Stones or fragmentary rock no larger than 4" in their greatest dimension will not be allowed in top 8" of ground nor within 6" of pipes. No stone or fragmentary rock larger than 12" in their greatest dimension will be allowed for any portion of backfill.
- If a conflict regarding backfill details exists on State or County roads, State details and County details shall supersede FSD backfill details.

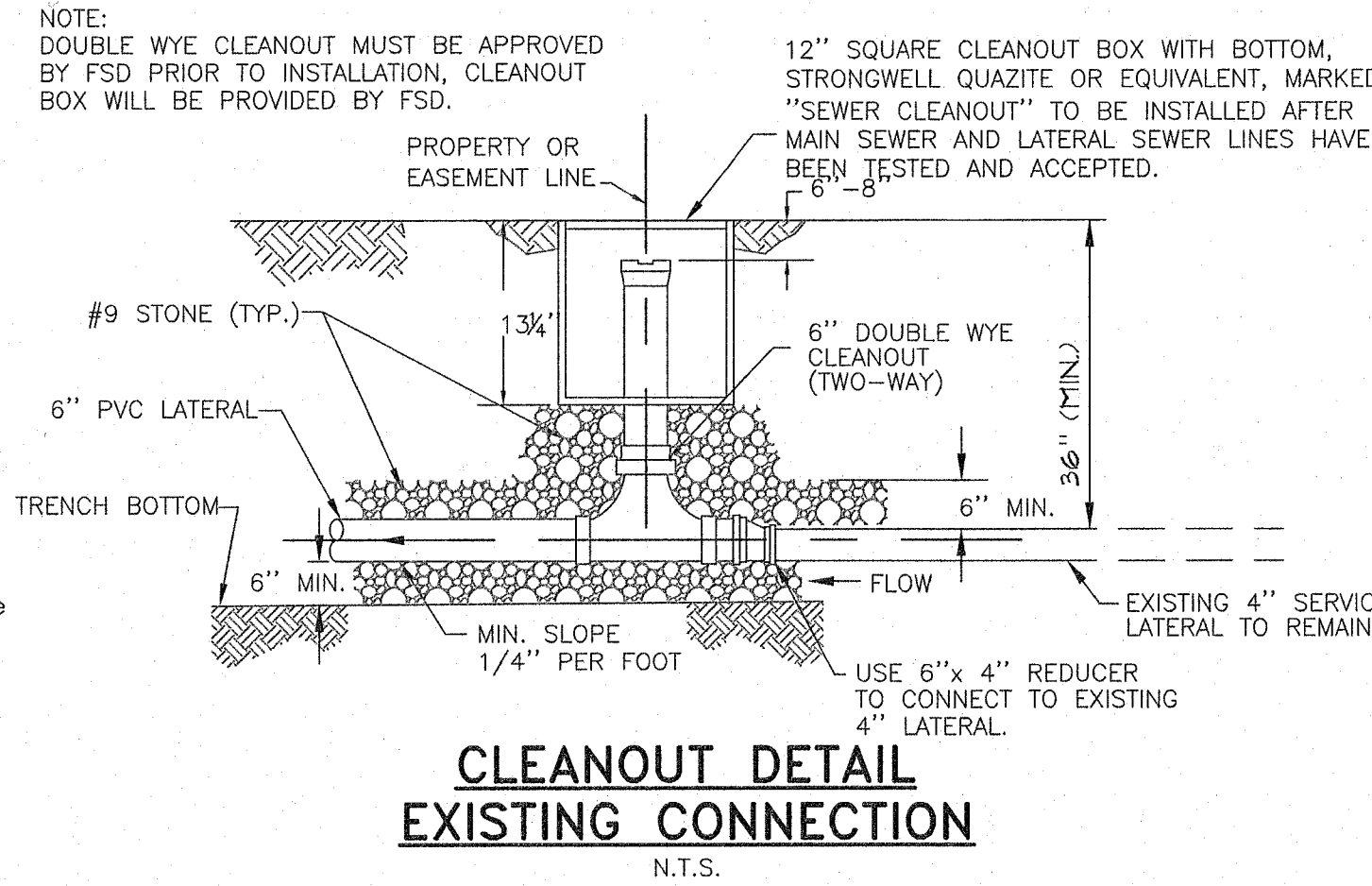


GRAVITY SEWER & LATERAL LINES TRENCHING AND BACKFILLING DETAILS

- TRAFFIC SHALL BE DETOURED OR A PLATE SHALL BE PLACED OVER THE CONCRETE UNTIL 3500 PSI COMPRESSIVE STRENGTH HAS BEEN ATTAINED.
- DEPTH OF BACKFILL FOR SDR 35 PVC PIPE SHALL NOT EXCEED 15 FEET. DEEPER INSTALLATIONS WILL REQUIRE HEAVY WALL (SDR 26) PVC PIPE OR DUCTILE IRON PIPE.
- TRENCHES SHALL BE SHORED, SLOPED, OR SHIELDED AS NECESSARY TO PROTECT WORKERS AND CONFORM TO OSHA REGULATIONS.
- FOR CASE 2 BACKFILL, #9 ROCK SHOULD BE 12" ABOVE PIPE AND THEN #57 SHOULD BE COMPACTED ABOVE THE 12" LAYER OF #9'S. THIS SHOULD BE DONE PARTICULARLY FOR LONG DITCHES, SUCH THAT ROAD PLATES ARE NOT REQUIRED.

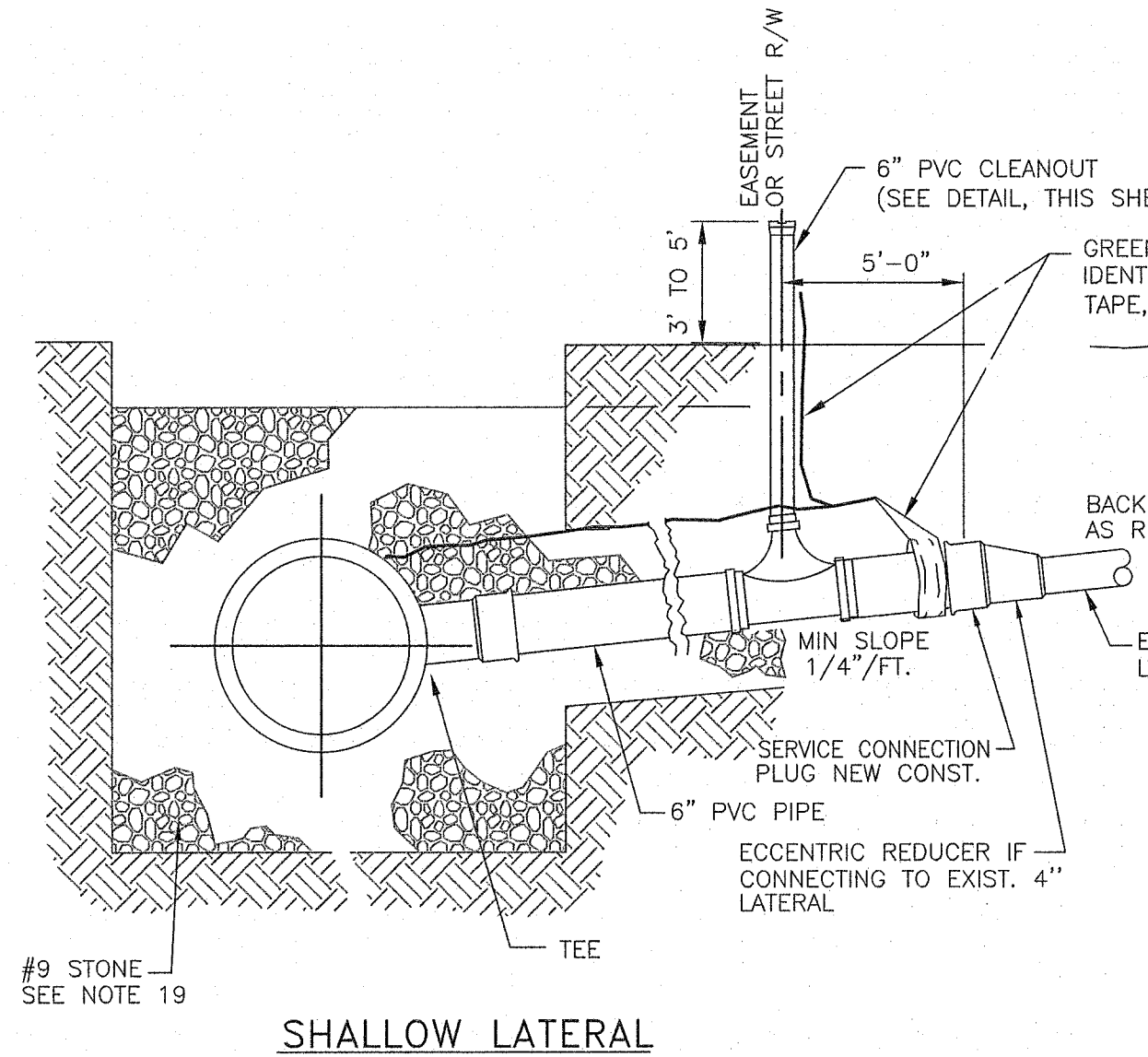
TESTING REQUIREMENTS

- The following tests shall be conducted on gravity sewer lines and manholes:
 - Visual inspection **by FSD Inspector**
 - Video inspection **by FSD**
 - Mandrel deflection test (for PVC pipe) **By Contractor**
 - Low pressure air test **By Contractor**
 - Vacuum test for manholes **By Contractor**Testing and inspection shall be conducted no earlier than 30 days after final trench backfill. As-built drawings shall be submitted for approval prior to testing. Any re-testing that is required will be subject to charges under the current Review/Inspection/Testing fee schedule as established by City of Frankfort Code of Ordinances No 52.04.G.
 - After the punch list items are completed and the As-built drawings are received by the FSD, the Contractor shall clean all lines and notify the FSD that the lines are ready to be televised. The FSD will televise the main lines and lateral connections, for a condition evaluation. Repairs, if necessary, shall be made by the Contractor, at the Contractor's expense prior to the acceptance of the sewers.**
 - The Mandrel (go/no-go) device shall be cylindrical in shape and constructed with nine (9) evenly spaced arms of prongs. The Mandrel dimension shall be 95 percent of the flexible pipe's published ASTM average inside diameter. Deflection shall not exceed 5 percent of the pipe's average inside diameter. The Mandrel shall be hand pulled by the contractor through oil sewer lines.
 - Low pressure air tests shall be conducted using equipment specifically designed and manufactured for the purpose of testing sewer lines using low pressure air. The equipment shall be provided with an air regulator valve or air safety valve so set pressure in the pipeline cannot exceed 8 psig. The test shall be made on each manhole-to-manhole section of piping after placement of the backfill. At least two minutes shall be allowed for the air pressure to stabilize in the section under test. After the stabilization period, testing will commence in accordance with UNI-B-6, latest revision. The Engineer shall provide testing times for each line segment between manholes to the Contractor, Inspector and FSD. Times shall be based on a 1.0 psig pressure drop.
 - Manholes shall be vacuum tested after installation, backfilling and prior to installation of the chimney seals, with all connections in place. The vacuum test shall include testing of the seal between the cast iron frame and the concrete cone, slab or grade rings. Test equipment for manholes shall be top-mounted.
- A vacuum of 10 inches of mercury shall be drawn on the manhole. The manhole shall be considered to pass the vacuum test if it holds at least 9 inches of mercury for the following time durations:
- | Manhole Depth | Time (Minutes) | 5 ft. Dia. | 6 ft. Dia. |
|-----------------|----------------|------------|------------|
| 20 feet or less | 1 | 2 | 3 |
| 20.1 to 30 feet | 2 | 3 | 4 |
- If a manhole fails the vacuum test, it shall be repaired and retested. Vacuum test shall be performed prior to installation of the chimney seals.
- Acceptance testing shall not be scheduled until punchlist items are completed and the as-built drawings have been submitted to the Frankfort Sewer Dept. (FSD). **The contractor must schedule the test 24 hours in advance and will be required to call the morning of the test to ensure FSD personnel are available to witness the test.** The FSD Inspector will walk the project first and check for compliance with the Department's Construction Specifications and Standards. personnel must witness all tests. The Director will review the test results.
 - All tests, except post construction video inspection of new sewer lines, shall be performed by the contractor. The contractor shall provide all equipment, appurtenances, and labor necessary to properly conduct the tests. The contractor is responsible for the ultimate performance of the sewer line and manholes within the above test requirements.**



CLEANOUT DETAIL EXISTING CONNECTION

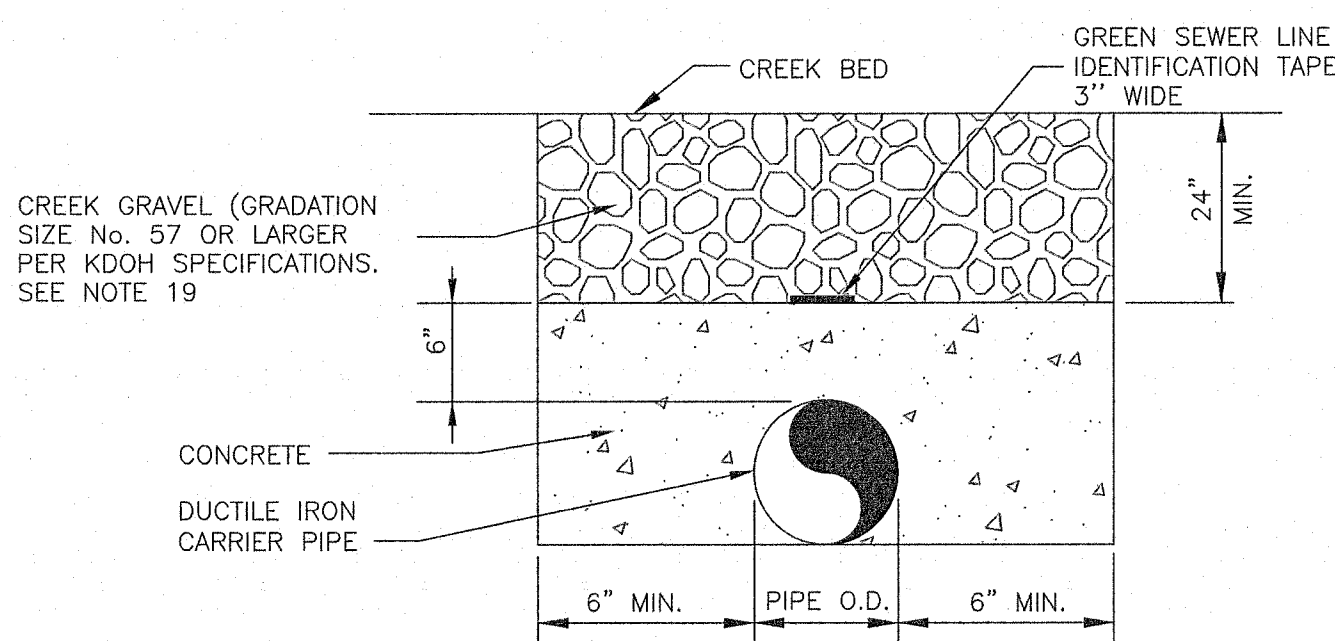
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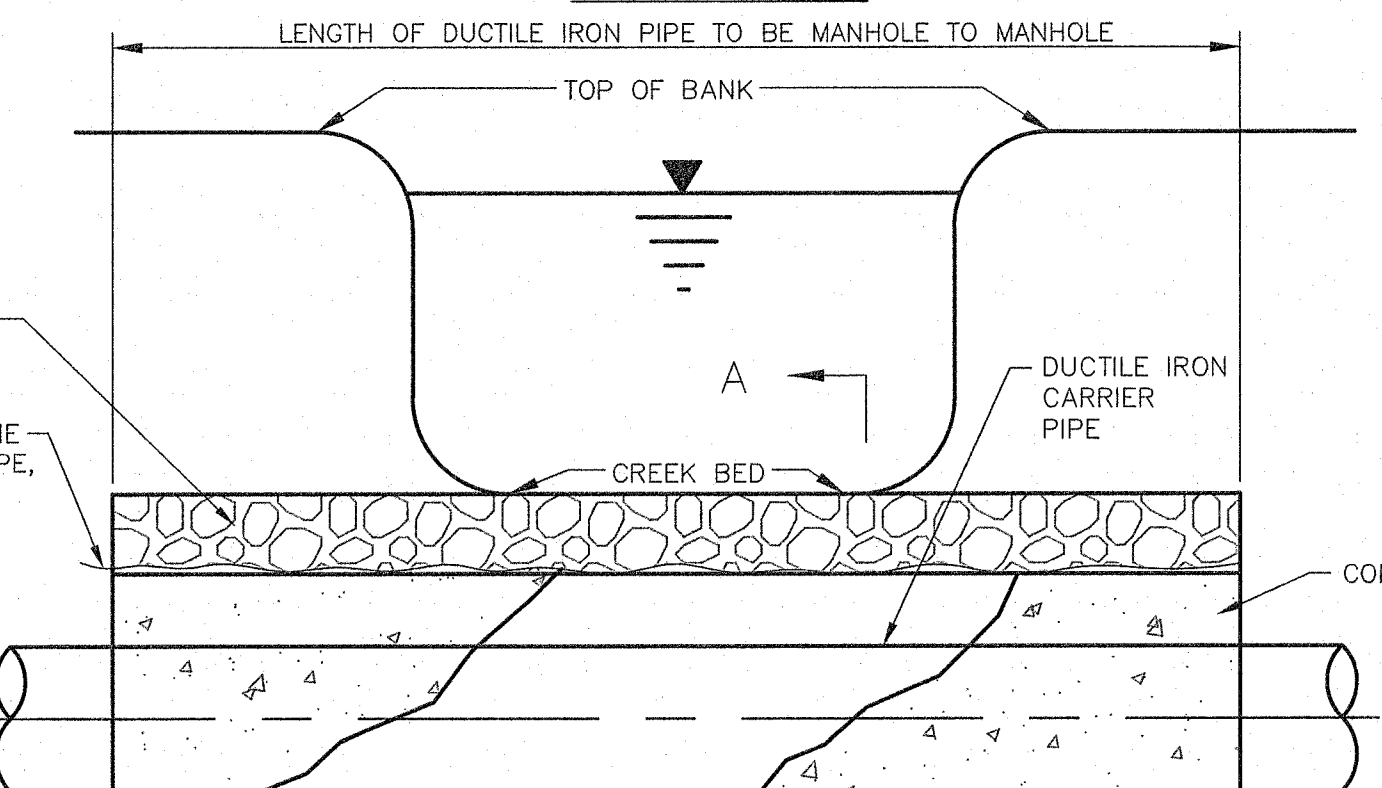
SHALLOW LATERAL

*LATERAL DETAIL

*DOES NOT APPLY TO LATERALS ENTERING MANHOLES
N.T.S.

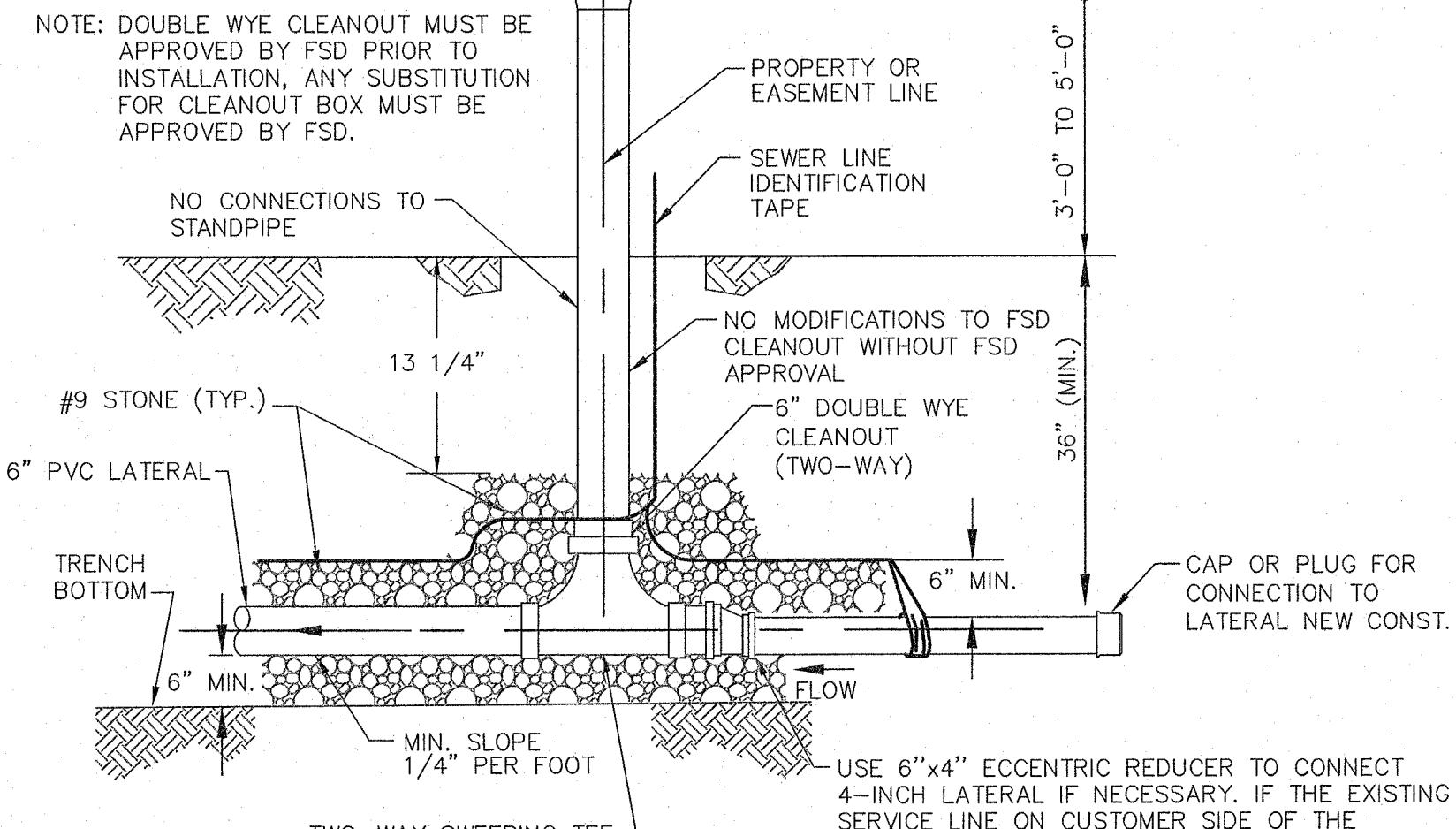


SECTION A-A



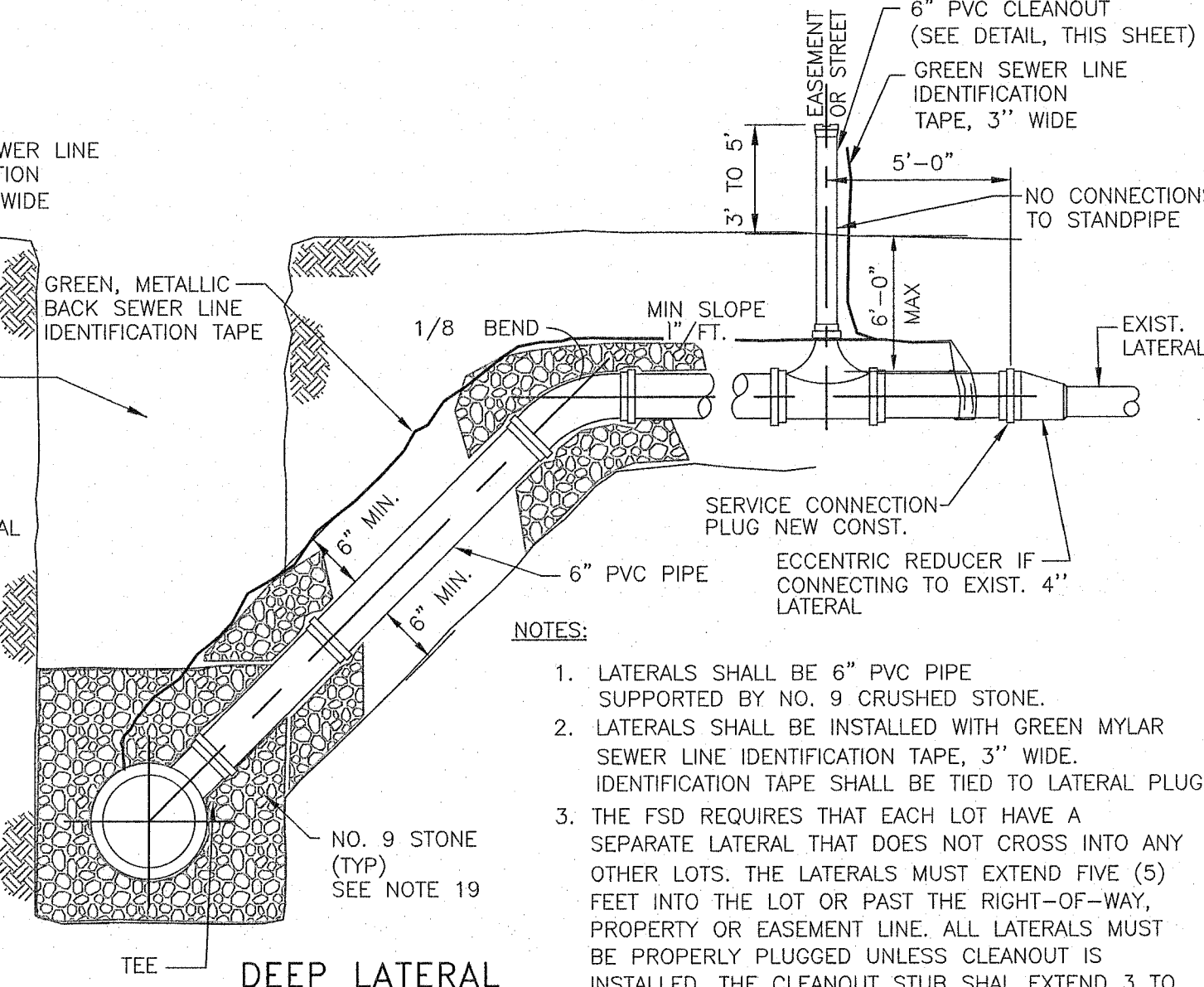
GRAVITY SEWER/FORCE MAIN CREEK CROSSING DETAIL (ERODIBLE BOTTOM)

N.T.S.



CLEANOUT DETAIL FUTURE CONNECTION

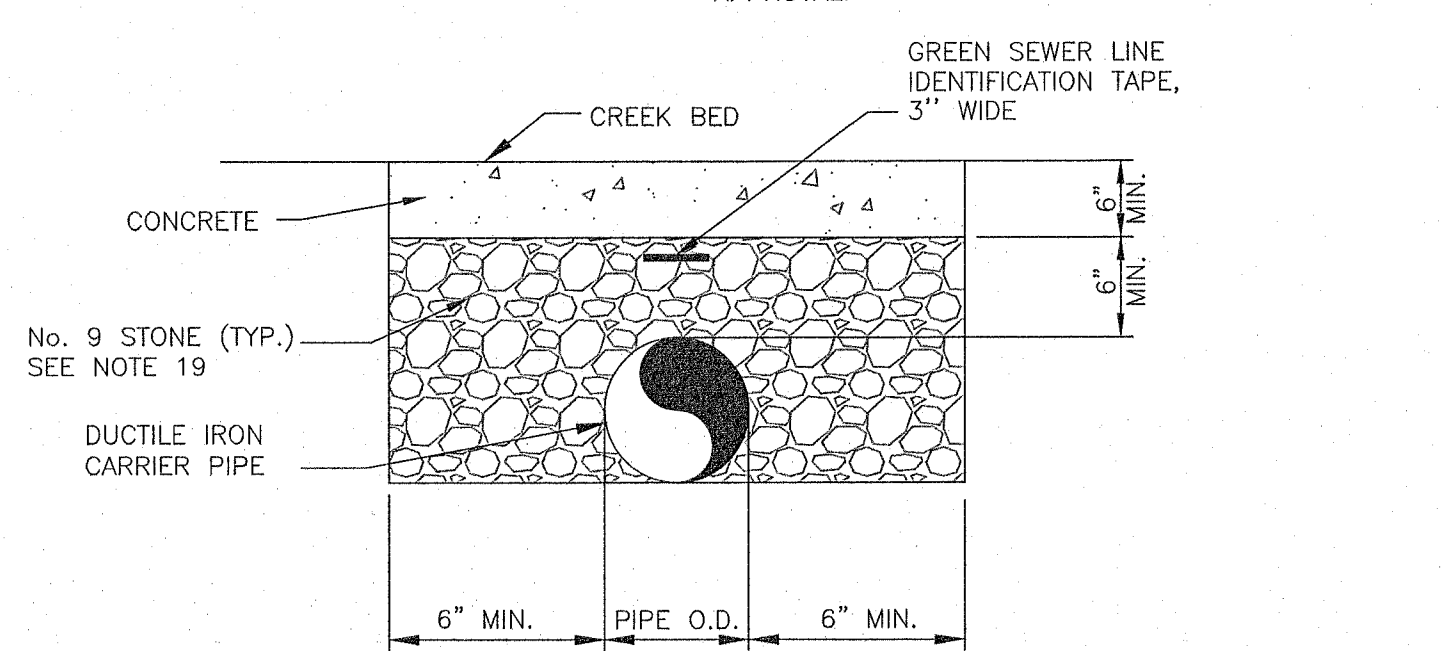
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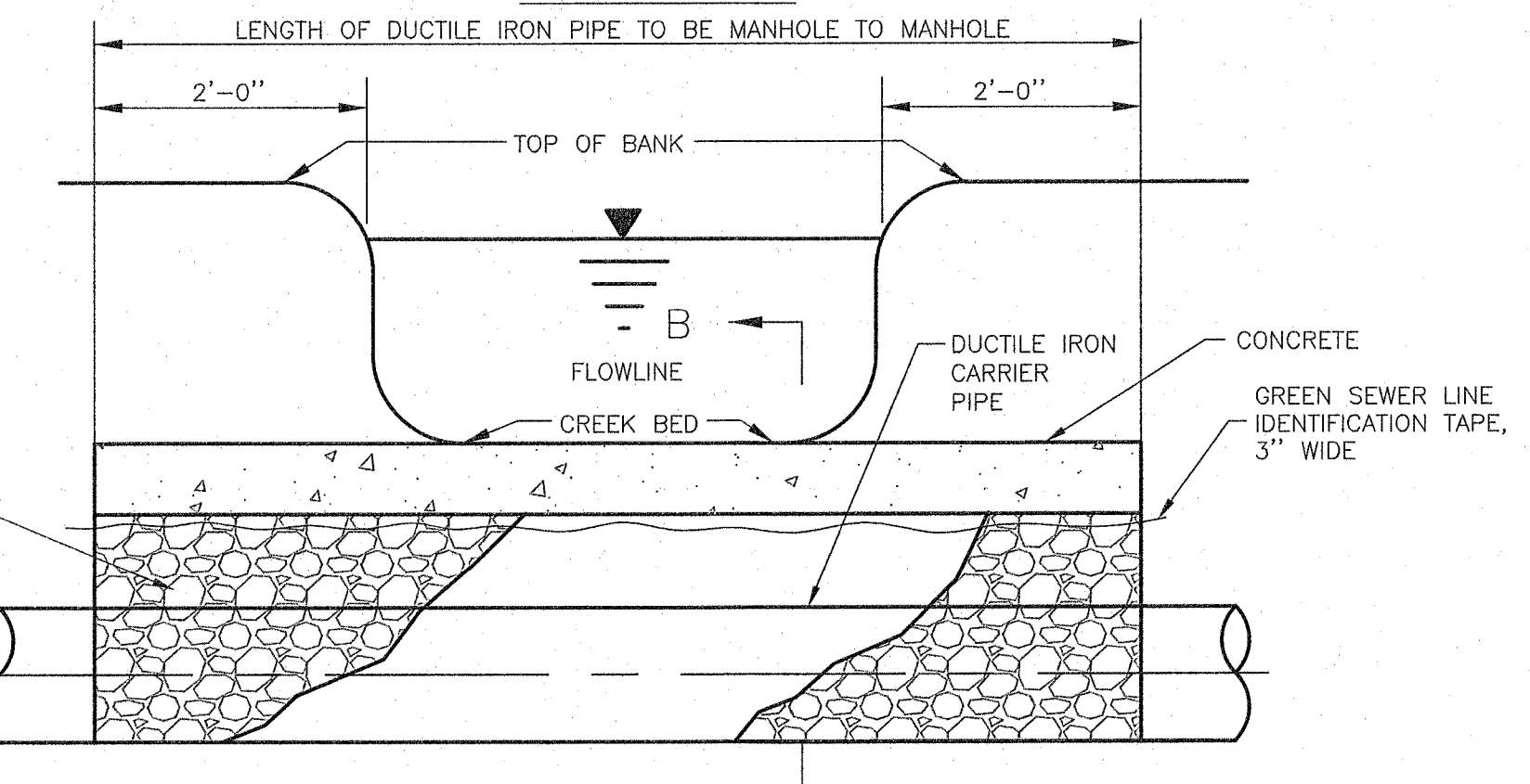
DEEP LATERAL

NOTES:

- LATERALS SHALL BE 6" PVC PIPE SUPPORTED BY NO. 9 CRUSHED STONE.
- LATERALS SHALL BE INSTALLED WITH GREEN MYLAR SEWER LINE IDENTIFICATION TAPE, 3" WIDE. IDENTIFICATION TAPE SHALL BE TIED TO LATERAL PLUG.
- THE FSD REQUIRES THAT EACH LOT HAVE A SEPARATE LATERAL THAT DOES NOT CROSS INTO ANY OTHER LOTS. THE LATERALS MUST EXTEND FIVE (5) FEET INTO THE LOT OR PAST THE RIGHT-OF-WAY, PROPERTY OR EASEMENT LINE. ALL LATERALS MUST BE PROPERLY PLUGGED UNLESS CLEANOUT IS INSTALLED. THE CLEANOUT STUB SHALL EXTEND 3 TO 5 FEET ABOVE GROUND. SEE DWG. G3 FOR DETAILS.
- ALL MANHOLE CONSTRUCTION NOTES APPLY.
- ALL LATERALS MUST BE INSTALLED WITH THE EXISTING DIRECTION OF FLOW IN THE SEWER MAIN.
- NO MODIFICATIONS TO FSD CLEANOUT WITHOUT FSD APPROVAL.



SECTION B-B



GRAVITY SEWER/FORCE MAIN CREEK CROSSING DETAIL (NON-ERODIBLE ROCK BOTTOM)

N.T.S.

REVISIONS:
12/15/2021
DEVELOPMENT PLAN RESUBMITTAL
12/28/2021
DEVELOPMENT PLAN RESUBMITTAL

CITY OF FRANKFORT SEWER DEPT. DETAILS

BURGER KING
Arrowhead Court
Frankfort, KY 40356

Kimley»Horn
214 Coanville Drive, Nashville, TN 37204
Main: 615.229.4400
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www.kimley-horn.com

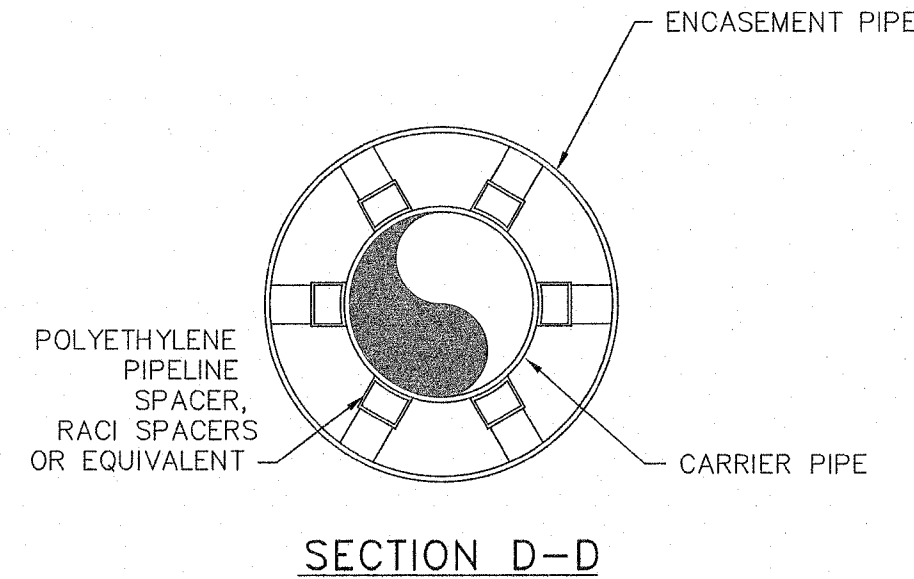
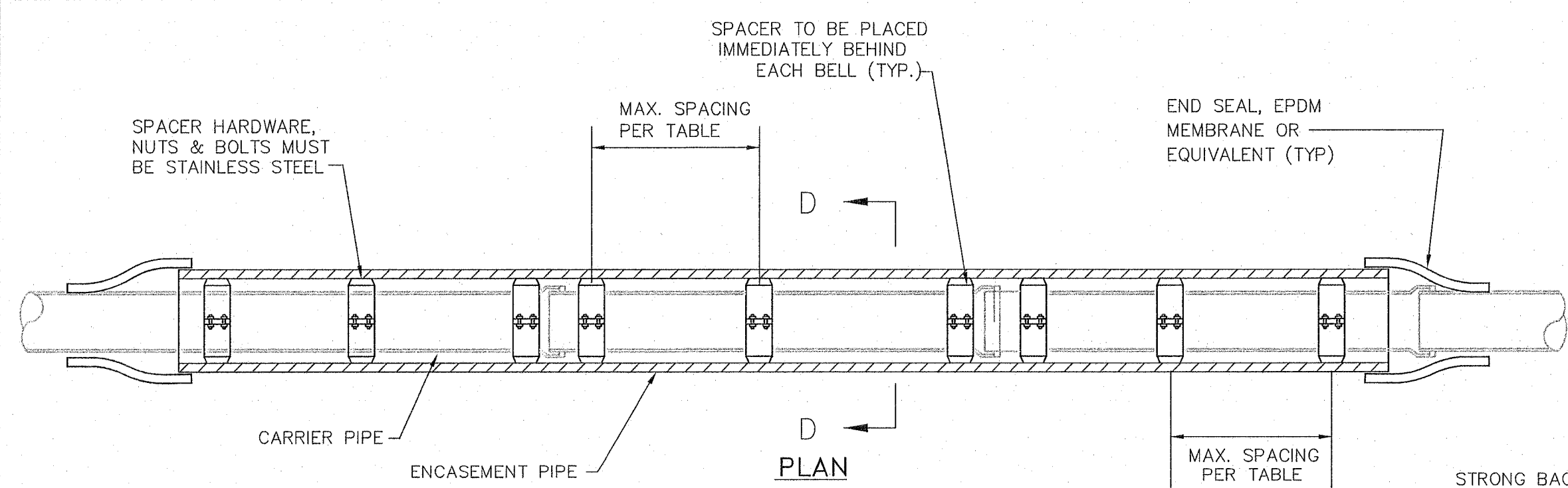
STATE OF KENTUCKY
31994
LICENSED PROFESSIONAL ENGINEER
12-10-21

Charles William Pope
& Associates
ARCHITECTURE, PLANNING, CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 12/28/2021
JOB NO: 118423003
DRAWN BY:
SHEET NUMBER:

2.5.4

Drawing name: \\winley-horn.com\sa_rash\NSH_LOE\118423003 - burger king - frankfort ky\4-CADD\plansheets\2.5.5 CITY OF FRANKFORT SEWER DEPT. DETAILS.dwg 2.5.5 CITY OF FRANKFORT SEWER DEPT. DETAILS Dec 23, 2021 2:41pm by Madison Molteso
This document, together with the concepts and designs presented herein, is intended only for the specific purpose and client for which it was prepared. Reuse of and improper reliance on this document without written authorization and adaptation by Kimley-Horn and Associates, Inc. shall be without liability to Kimley-Horn and Associates, Inc.



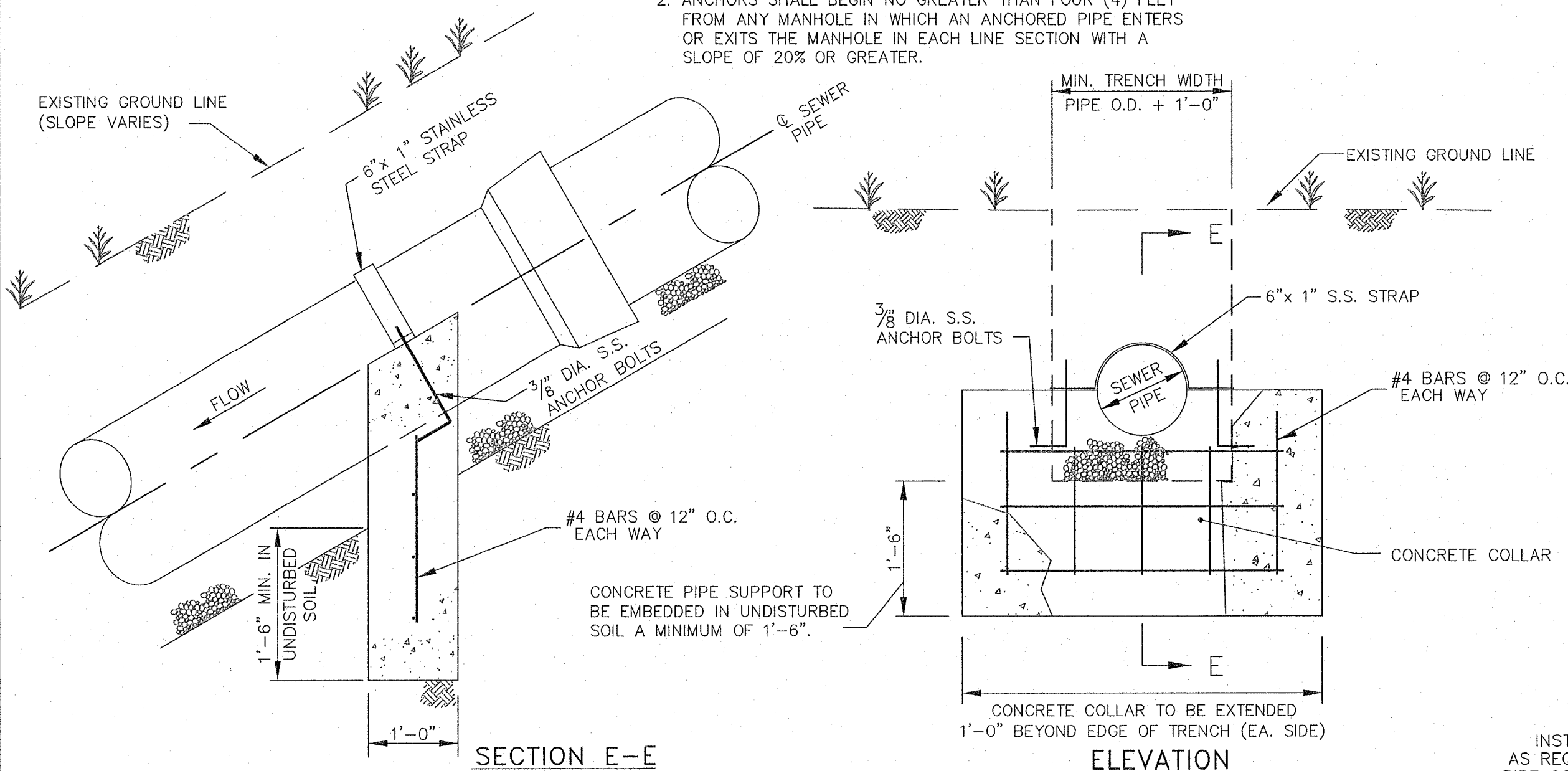
MAXIMUM SPACING DISTANCE FOR PIPELINE SPACERS		
CARRIER PIPE DIA. (INCHES)		MAX. SPACING (FEET)
2-2 1/2		4
3-8		7
10-26		10
28		9
30		8
32		7
34		6
36-38		5.5
40-44		5
46-48		4

TYPICAL ENCASEMENT PIPE INSTALLATION

- NOTES:
- ENCASEMENT PIPE SHALL BE NEW GRADE B STEEL PIPE, INSTALLED WITHOUT BENDS.
 - ALL JOINTS IN ENCASEMENT PIPE SHALL BE WELDED. WELDS SHALL BE SOLID BUTT-WELDS WITH A SMOOTH NON-OBSTRUCTING JOINT INSIDE AND SHALL CONFORM TO AMERICAN WELDING SOCIETY SPECIFICATIONS.
 - MINIMUM ENCASEMENT PIPE WALL THICKNESS SHALL BE AS FOLLOWS, UNLESS USE OF A REDUCED THICKNESS IS SPECIFICALLY GRANTED BY THE FSD:

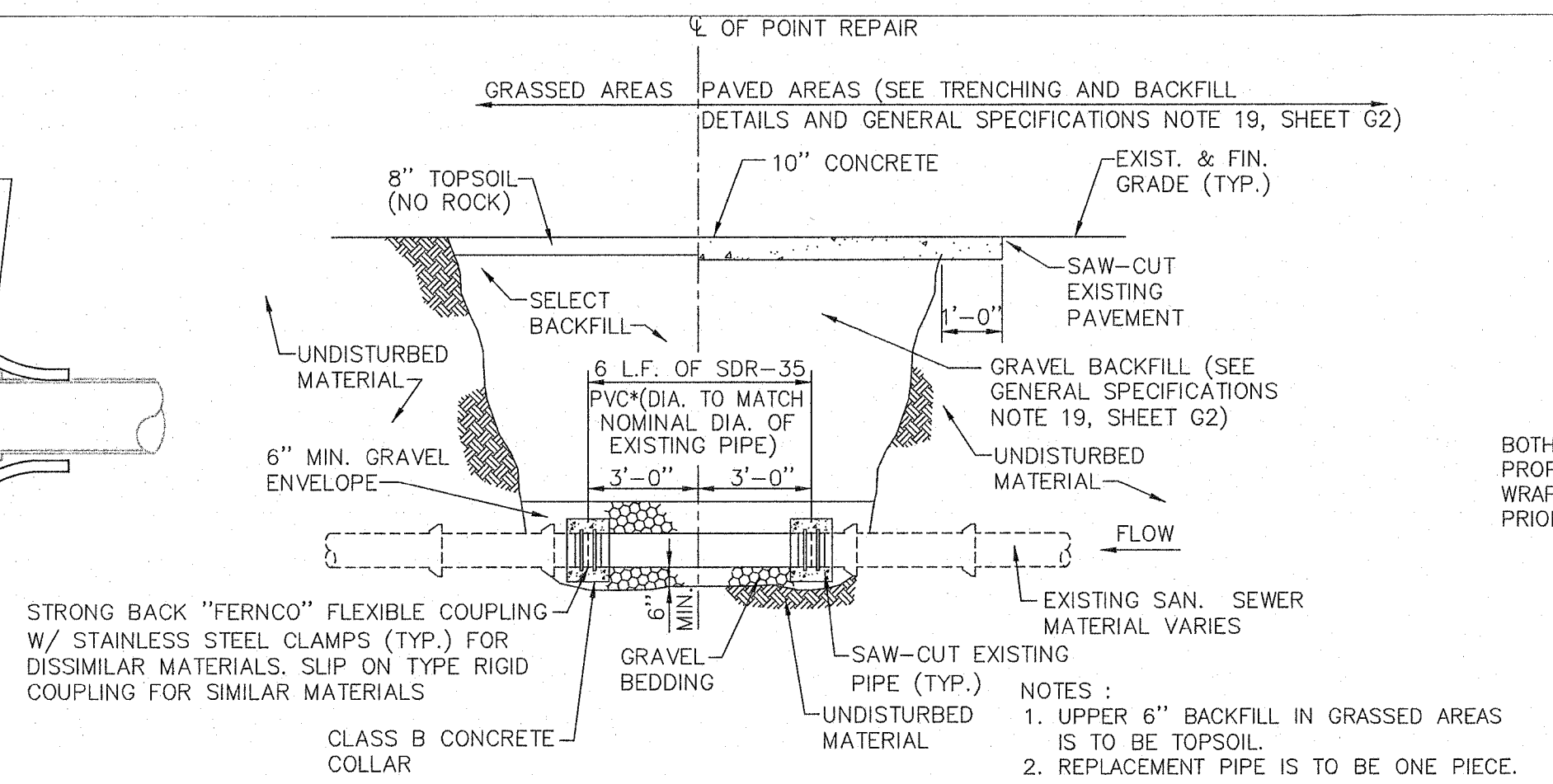
PIPE NOMINAL DIAMETER (INCHES)	MINIMUM ENCASEMENT PIPE THICKNESS (INCHES)
14 & UNDER	0.250
16-22	0.375
24-36	0.500
42-48	0.625
 - FSD MUST BE ON SITE TO WITNESS INSTALLATION OF CARRIER PIPE.
 - PIPELINE SPACERS SHALL BE SELECTED AND INSTALLED PER THE MANUFACTURER'S SPECIFICATIONS.

- NOTE:
- ANCHORS SHALL BE SPACED ACCORDING TO TEN STATE STANDARDS (1997 EDITION). SEWERS ON 20 PERCENT (%) SLOPES OR GREATER:
 - NOT OVER 36 FEET CENTER TO CENTER ON GRADES 20 PERCENT (%) AND UP TO 35 PERCENT (%).
 - NOT OVER 24 FEET CENTER TO CENTER ON GRADES 35 PERCENT (%) AND UP TO 50 PERCENT (%).
 - NOT OVER 16 FEET CENTER TO CENTER ON GRADES 50 PERCENT (%) AND OVER.
 - ANCHORS SHALL BEGIN NO GREATER THAN FOUR (4) FEET FROM ANY MANHOLE IN WHICH AN ANCHORED PIPE ENTERS OR EXITS THE MANHOLE IN EACH LINE SECTION WITH A SLOPE OF 20% OR GREATER.

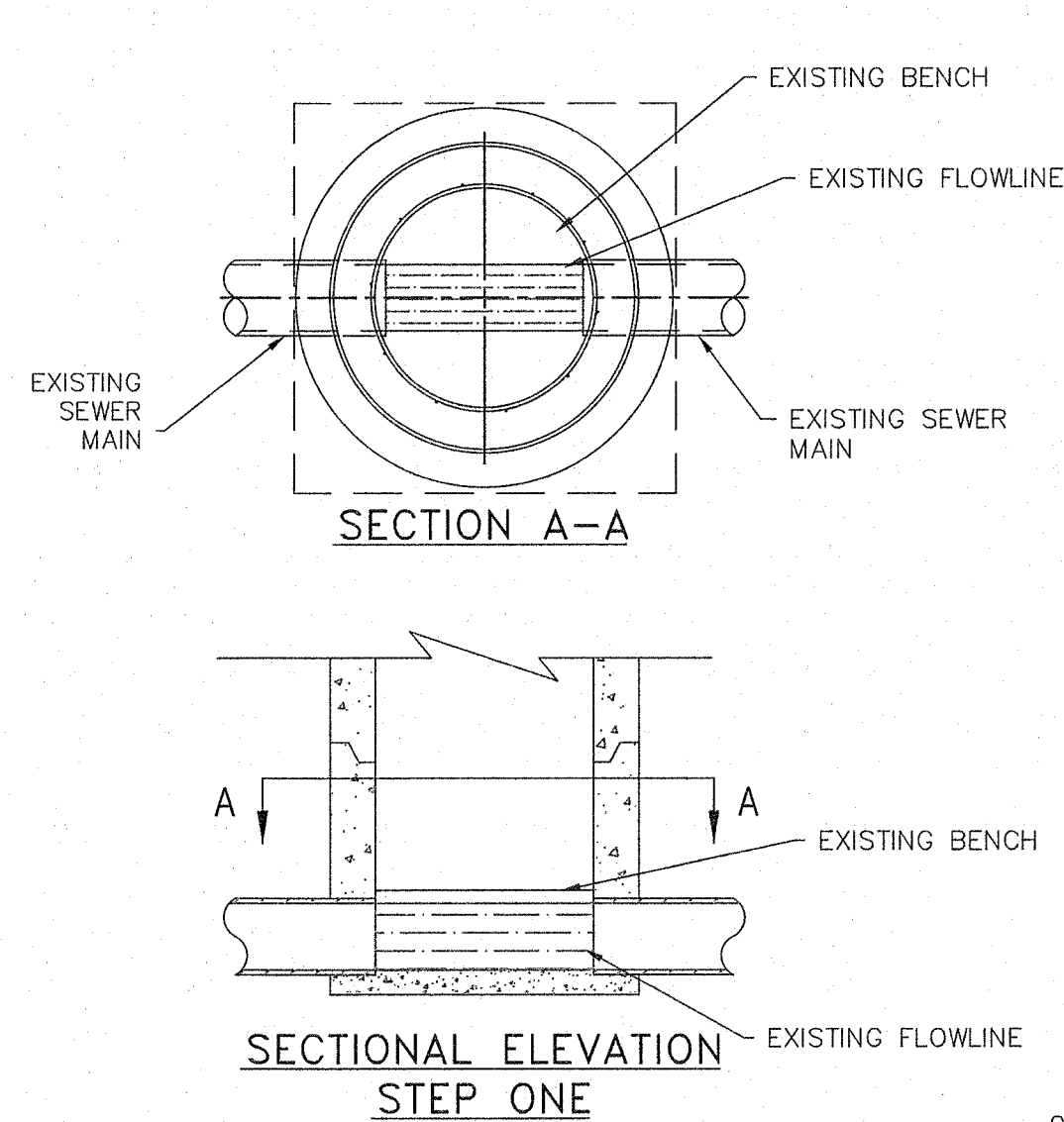


PIPE ANCHOR DETAIL

N.T.S.



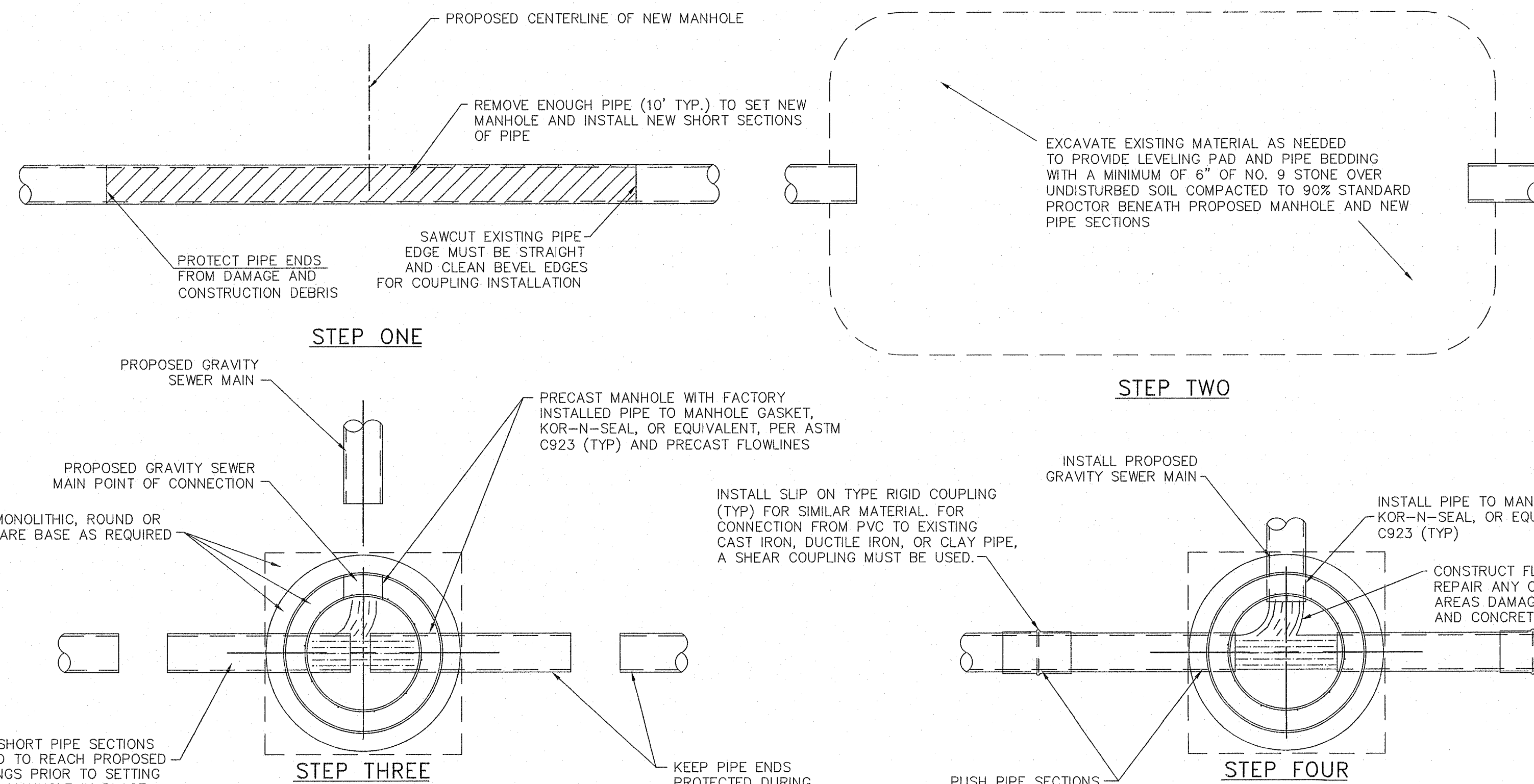
POINT REPAIR DETAIL for SANITARY SEWERS



NOTE: FINAL INSTALLATION MUST BE APPROVED BY FRANKFORT SEWER DEPARTMENT PRIOR TO BACKFILLING.

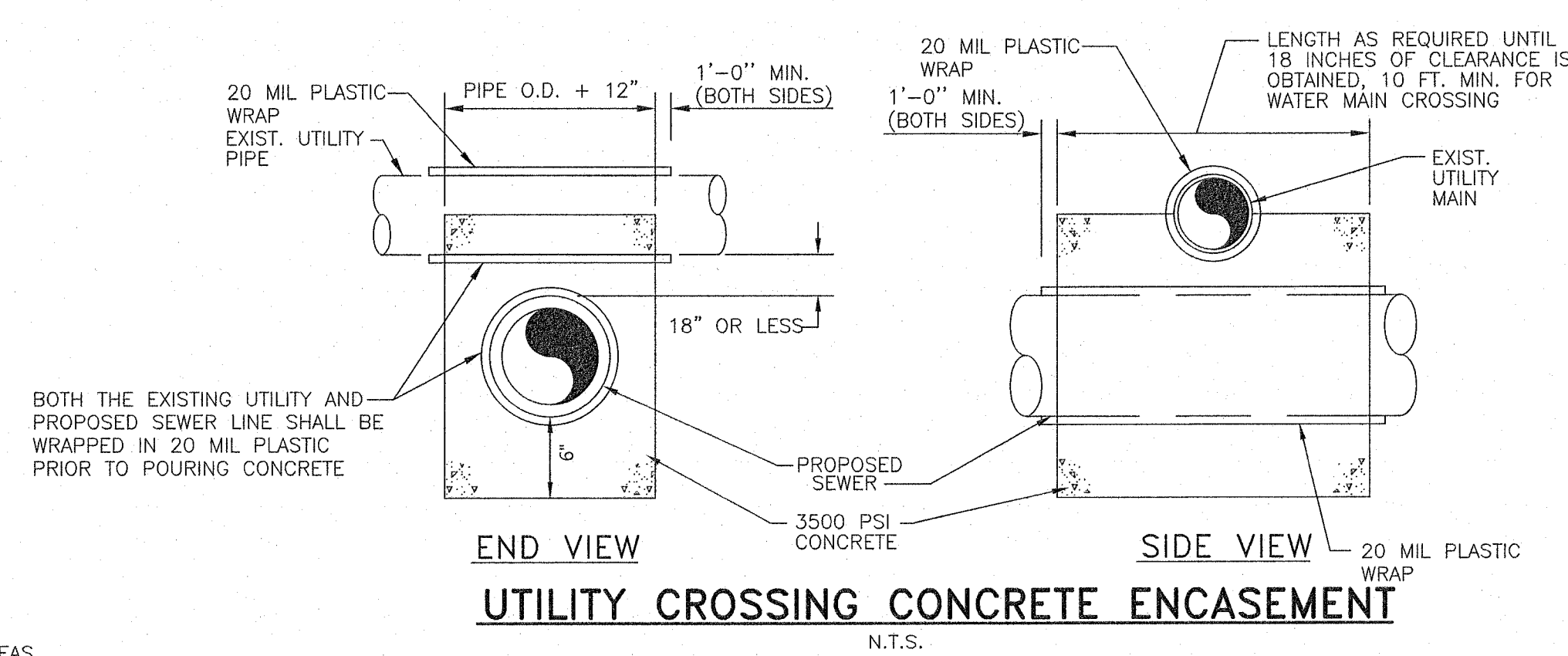
CONNECTION TO EXISTING MANHOLE DETAIL

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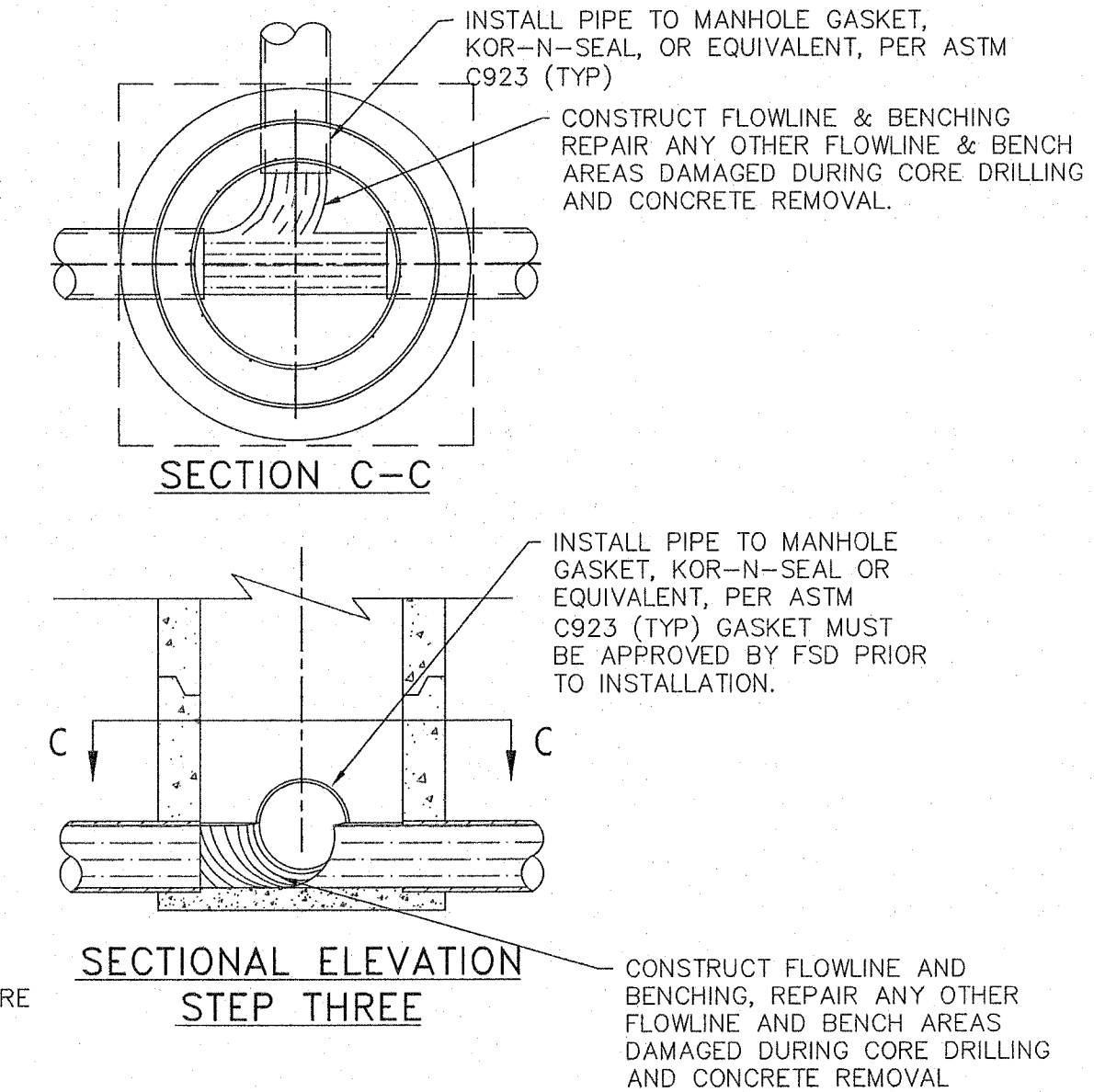


CONNECTION TO EXISTING SANITARY SEWER MAIN

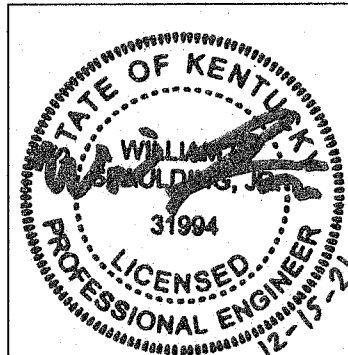
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- NOTES:
- CONCRETE ENCASEMENT SHALL BE USED WHEN THE CLEARANCE BETWEEN THE PROPOSED SANITARY SEWER PIPE AND ANY EXISTING UTILITY MAIN IS 18 INCHES OR LESS. THE CONCRETE SHALL EXTEND TO AT LEAST THE SPRING LINE OF EACH PIPE INVOLVED. PIPE MAY NEED TO BE ANCHORED TO AVOID FLOATATION DURING CONCRETE PLACEMENT.
 - "UTILITY MAIN" INCLUDES UNDERGROUND WATER (MAIN LINE), NATURAL GAS (MAIN LINE), TELEPHONE, ELECTRICAL CONDUIT, STORM SEWER OR TYPICALLY NON-CONTAMINATING FACILITIES.
 - PROPOSED SEWER PIPE TO BE FULLY ENCASED WHETHER ABOVE OR BELOW EXISTING UTILITY PIPE.



JAN 0 5 2022



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7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 12/28/2021
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DRAWN BY:
SHEET NUMBER:

2.5.5

CITY OF FRANKFORT SEWER DEPT. DETAILS
BURGER KING
Arrowhead Court
Frankfort, KY 40356

Kimley»Horn
214 Coanville Drive, Nashville, TN 37204
Main: 615.228.1200, kholmes@kimley-horn.com

GENERAL PLANTING SPECIFICATIONS

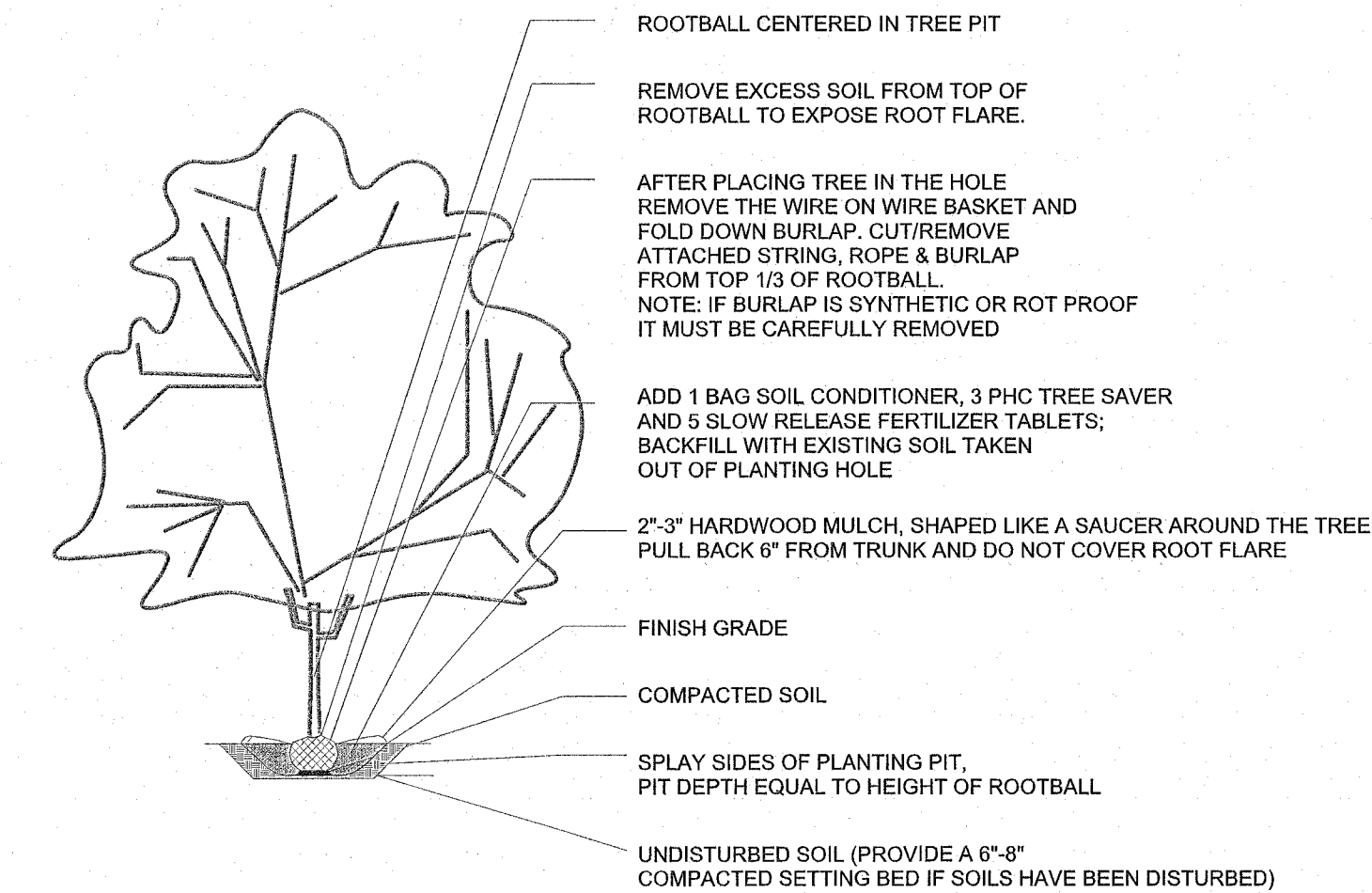
1. THESE DOCUMENTS ARE MEANT TO SERVE AS A GUIDE FOR CONSTRUCTION. MODIFICATIONS TO THE PLAN MAY BE REQUIRED AND/OR LOCATION OF PLANTS MAY BE ADJUSTED ONCE ON SITE TO ACCOMMODATE FIELD CONDITIONS OR PLANTING SCHEME.
2. ALL PLANT MATERIAL SHALL MEET THE MINIMUM STANDARDS AS SET BY FRANKLIN COUNTY STANDARDS.
3. CONTRACTOR WILL PROVIDE PLANTING SCHEDULE FOR ALL PLANT MATERIAL, SITE DELIVERY, AND INSTALLATION DATES.
4. ANY SUBSTITUTIONS OF SIZES OR VARIETIES ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE DESIGNER.
5. IN THE EVENT THE PLANT LIST DIFFERS FROM THE PLAN, THE PLAN SHALL GOVERN. THE CONTRACTOR IS RESPONSIBLE FOR COUNTING PLANT QUANTITIES.
6. TOPSOIL SHALL BE NATURAL, FERTILE, LOAM COMMON TO SOILS IN THE BLUEGRASS REGION; THE SOIL SHALL BE FREE FROM ROCKS, DEBRIS, NOXIOUS WEEDS, EXCESSIVE WEED OR PLANT WASTE, SUBSOIL, HEAVY CLAY, ROOTS AND STUMPS, OR ANY OTHER MATERIAL THAT WILL HINDER PLANT GROWTH.
7. PLANTING BED PREPARATION: LOOSEN EXISTING SOIL VIA TILLING OR BY HAND, OR BY ADDING TOPSOIL TO CORRECT GRADE. ALL BEDS TO BE NATURAL EDGED WITH A BED EDGER SET AT 3" DEEP. ALL BEDS THAT JOIN CONCRETE OR OTHER HARD MATERIAL SHALL BE HAND SPADE TO 3" DEEP. DO NOT RAISE BED GRADES, FINISHED GRADES OR MULCH ABOVE FINISHED ELEVATIONS OF CURBING, SIDEWALKS, BUILDINGS, ETC.
8. ALL PLANTING BEDS TO BE MULCHED WITH 2-2.5" STERILE, TRIPLE SHREDDED HARDWOOD MULCH. DO NOT USE DYED MULCH, WOOD CHIPS, OR OTHER INAPPROPRIATE MULCH. WHERE COBBLE MULCH IS SPECIFIED, USE 1.5-3" COBBLE, ROUNDED STONE IN NATURAL TONES OF GRAY AND TAN. ALL PERIMETER BEDS AND INDIVIDUAL TREES TO BE HARDWOOD MULCH; ALL INTERIOR AND FOUNDATION BEDS TO BE 1.5-3" COBBLE.
9. KEEP ALL MULCH AWAY FROM TREE TRUNKS AND ROOT FLARE. MULCH TREES WITH A MINIMUM 3' RING WITH AN EDGE. DO NOT PILE MULCH AGAINST TREES, BUILDINGS OR WOOD OR WOOD FRAMED STRUCTURES.
10. ALL EXTERIOR GROUND SURFACES TO BE SEEDED OR SODDED ACCORDING TO LOCAL REQUIREMENTS OR AS NOTED IN PLAN.
11. CONTRACTOR RESPONSIBLE FOR ALL CLEAN UP ASSOCIATED WITH THEIR WORK, INCLUDING REMOVAL OF PLANT TAGS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND WATERING OF THE JOB UNTIL THE LANDSCAPE IS COMPLETE.
13. CONTRACTOR SHALL PROVIDE AND INSTALL PLANT STAKING ON EVERY TREE. OWNER SHALL REMOVE STAKES ONE YEAR AFTER INSTALLATION.
14. THE ONE YEAR GUARANTEE PERIOD SHALL BEGIN AT THE ACCEPTANCE OF COMPLETION OF THE LANDSCAPE PORTION OF THE PROJECT.
15. SODDING SHALL INCLUDE PREPARING THE SOD BED, INCORPORATING FERTILIZER AND AGRICULTURAL LIMESTONE AS NEEDED. ENSURE THAT AT LEAST 90 PERCENT IS ALIVE WITH NO AREA OF DEAD SOD LARGER THAN ONE SQUARE FOOT.
22. MAINTENANCE OF SODDED AND SEEDED AREAS AND PLANTING BEDS ARE THE RESPONSIBILITY OF THE OWNER UPON COMPLETION.
23. ALL LANDSCAPE BEDS REQUIRE LANDSCAPE WEED BARRIER FABRIC.
24. AMENDMENT OF SOIL: SOIL CONDITIONER PER TREE, 1 BAG PER 5 SHRUBS, 1 BAG PER 10 PERENNIALS; 5 SLOW RELEASE FERTILIZER TABLETS PER TREE OR SHRUB LARGER THAN 5 GALLONS OR 1 TABLET PER GALLON; 3 BAGS OF PHC TREE SAVER PER TREE, 1 PER SHRUB AND 1 BAG PER 4 PERENNIALS AND GRASSES.

Quantity	Latin Name	Common Name
43	Rudbeckia fulgida var. sullivantii 'Goldsturm'	GOLDSTURM BLACK EYED SUSAN
76	Panicum virgatum 'Cape Breeze'	CAPE BREEZE SWITCH GRASS
3	Aronia arbutifolia 'Brilliantissima'	BRILLIANT RED CHOKEBERRY
16	Dierilla 'G2XB8544' USPP 27,548; CBR 5596	KODIAK® ORANGE HONEYSUCKLE BUSH
70	Aronia melanocarpa 'Ground Hog'	GROUND HOG™ MOUND CHOKEBERRY
5	Viburnum wrightii 'C.A. Hildebrandt's'	CA HILDEBRANT WRIGHT VIBURNUM
12	Physocarpus opulifolius	COMMON NINEBARK
40	Cephalanthus occidentalis 'Sugar Shack'	SUGAR SHACK® BUTTONBUSH
20	Panicum virgatum 'Shenendoah'	SHENENDOAH SWITCHGRASS
11	Ilex virginica 'Sprich' P.P. #10,988	LITTLE HENRY DWARF SWEETSPIRE
14	Thuja occidentalis 'Fire Chief'	FIRE CHIEF ARBORVITAE
21	Juniperus communis 'Tortuga'	TORTUGA JUNIPER
3	Thuja occidentalis 'Mr Bowling Ball'	MR BOWLING BALL ARBORVITAE
6	Hamamelis x intermedia 'Jelena'	JELENA WITCH HAZEL
6	Carpinus betulus 'Fastigiata'	FRANS FONTAINE HORNBEAM
3	Picea abies 'Pendula'	WEEPING NORWAY SPRUCE
1	Nyssa sylvatica	TUPELO
19	Juniperus sabina 'Buffalo'	BUFFALO JUNIPER
1	Tilia cordata 'Greenspire'	GREENSPIRE LITTLELEAF LINDEN

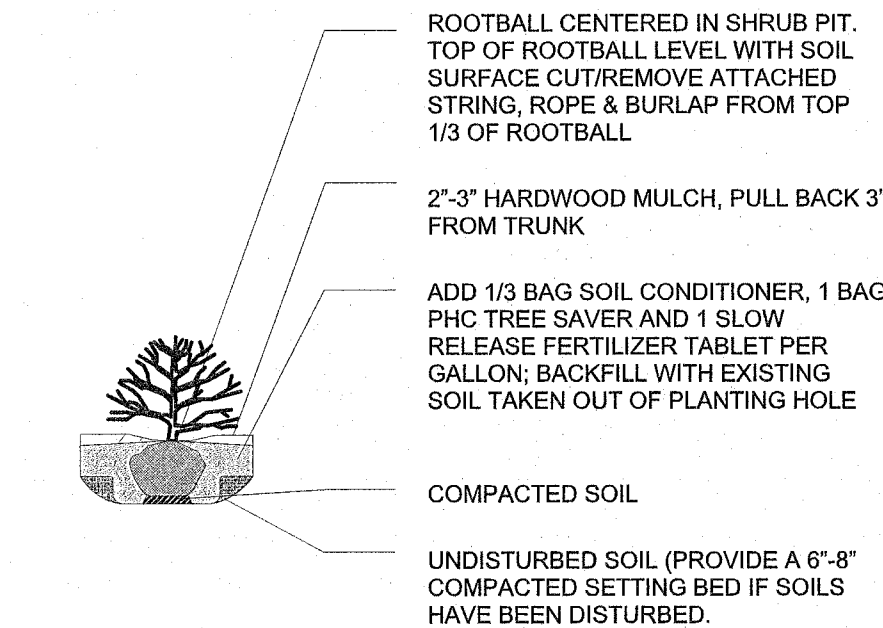
REQUIREMENTS
24564.015 VEHICLE USE AREA 15% FOLIAGE REQUIREMENT 3864.602 PROVIDED: 3973.511

ALL DISTURBED AREAS TO BE SODDED WITH FESCUE BLEND SOD.

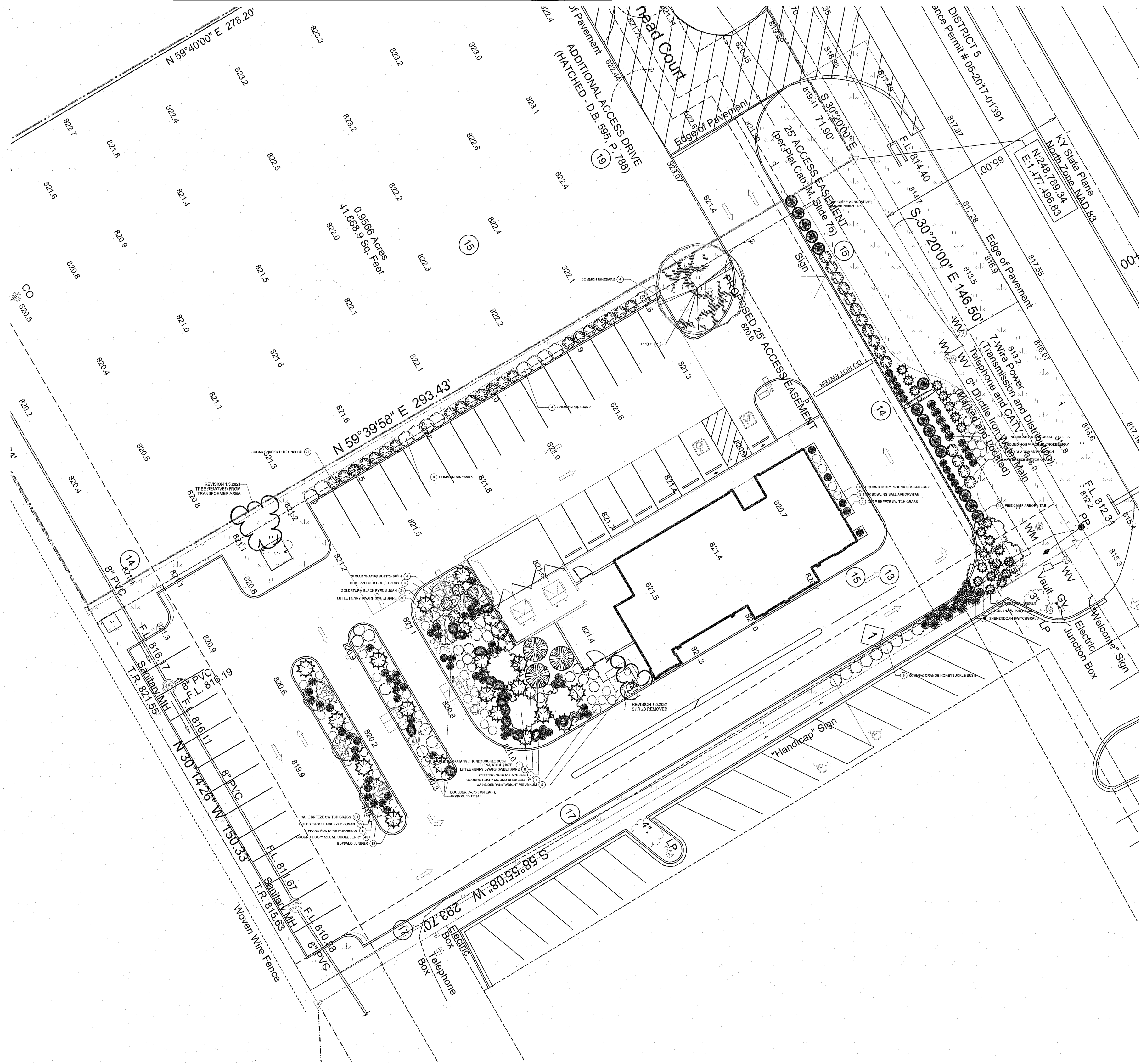
1.5" DECORATIVE COBBLE MULCH ON INTERIOR BEDS
LIMESTONE BOULDERS, APPROXIMATELY .75-1.25 TON PER EACH



- NOTES:
1. PRUNE TO REMOVE DEAD OR INJURED BRANCHES AND THOSE THAT ARE CROSSING AND IN CONTACT WITH OTHER BRANCHES
 2. DO NOT REMOVE MORE THAN 1/5 OF BRANCH SYSTEM. DO NOT CUT LEADER. TREE MUST RETAIN NATURAL CROWN SHAPE.
 3. MAKE SURE THAT PLANTS ARE WELL WATERED BEFORE PLANTING AND THAT THE ROOTBALL IS THOROUGHLY WET.
 4. IN POORLY DRAINED COMPACTED SOILS PROVIDE DRAINAGE. BEFORE PLANTING THE SHRUB, TEST DRAINAGE OF THE HOLE BY POURING A FEW GALLONS OF WATER INTO THE BOTTOM. IF THE WATER DOES NOT SOAK IN AFTER ONE HOUR CONTACT LANDSCAPE ARCHITECT FOR DETAIL FOR REMEDIAL DRAINAGE.
 5. CONTRACTOR SHALL REMOVE OR REPOSITION SMALL GIRDLING ROOTS AND FINE ROOTS FOUND ABOVE THE MAIN ROOTS. PLANTS WITH LARGE GIRDLING ROOTS SHALL BE REJECTED AND REPLACED WITH MATERIAL OF EQUAL SPECIFICATION.
 6. CONTRACTOR TO SHAVE OFF ALL ROOTS ON THE OUTER EDGE OF THE ROOT BALL OF CONTAINER GROWN PLANTS. AFTER PRUNING ROOTS SHOULD BE LEFT IN A RADIAL RELATIONSHIP TO THE TRUNK, ENCOURAGING OUTWARD GROWTH.
 7. ALL TREES TO BE STAKED.



- NOTES:
1. PRUNE TO REMOVE DEAD OR INJURED BRANCHES AND THOSE THAT ARE CROSSING AND IN CONTACT WITH OTHER BRANCHES
 2. MAKE SURE THAT PLANTS ARE WELL WATERED BEFORE PLANTING AND THAT THE ROOTBALL IS THOROUGHLY WET.
 3. IN POORLY DRAINED COMPACTED SOILS PROVIDE DRAINAGE. BEFORE PLANTING THE SHRUB, TEST DRAINAGE OF THE HOLE BY POURING A FEW GALLONS OF WATER INTO THE BOTTOM. IF THE WATER DOES NOT SOAK IN AFTER ONE HOUR CONTACT LANDSCAPE ARCHITECT FOR DETAIL FOR REMEDIAL DRAINAGE.
 4. CONTRACTOR SHALL REMOVE OR REPOSITION SMALL GIRDLING ROOTS AND FINE ROOTS FOUND ABOVE THE MAIN ROOTS. PLANTS WITH LARGE GIRDLING ROOTS SHALL BE REJECTED AND REPLACED WITH MATERIAL OF EQUAL SPECIFICATION.
 5. CONTRACTOR TO SHAVE OFF ALL ROOTS ON THE OUTER EDGE OF THE ROOT BALL OF CONTAINER GROWN PLANTS. AFTER PRUNING ROOTS SHOULD BE LEFT IN A RADIAL RELATIONSHIP TO THE TRUNK, ENCOURAGING OUTWARD GROWTH.



7 LANDSCAPE PLAN
Scale: 1" = 20'-0"

AMENDMENT AND WEED FABRIC DETAILS:
Weed fabric: DeWitt PRO-5 Weed Barrier 5 oz. Needle-punch Woven; 3x250'(based on sqft)
PRO-5 Weed-Barrier is the industry's best 5 oz. woven, needle-punched, polypropylene fabric designed for professional and commercial use. PRO-5 Weed-Barrier has been approved by leading landscape architects and most government agencies. PRO-5 conserves soil moisture, increases growth, and prevents unwanted weeds from germinating. PRO-5 is striped every twelve inches to aid in plant alignment.
PHC: Roots PHC Tree Saver Mycorrhizal Fungi Inoculant; 3oz (3 3oz per 1 tree, 1 per shrub, 1 per 4 perennials)
Roots Tree and/or Plant Saver 4-7-4 is used in planting or maintaining a broad range of plants. It contains mycorrhizae fungi, beneficial bacteria, macro and micro nutrients and other biostimulants. This formulation addresses mineral nutrient requirements and improves biological health of planters and potted plants.
Fertilizer Tablets: A.M. Leonard Fertilizer Tablets 20-10-5 Controlled Release; 21gm (5 per tree, 1 per gallon)
High nitrogen formula. Good for outdoor landscape or containers, even smaller ones like 1-gallon. Tablets have a 2-year nutrient release. Can be used to feed trees, shrubs, roses, vines and perennials of all sorts. Also can be used on established evergreens.
Soil Conditioner: Pine Soil Conditioner; 2cuft (1 bag per tree, 1 bag per 5 shrubs, 1 bag per 10 gallon perennials, 1 bag per 15 quart perennials) An aerobic-composted product used to amend and loosen soil.

REVISIONS:
1

LANDSCAPE PLAN

BURGER KING



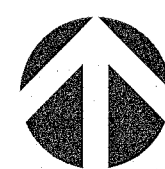
STORE # Versailles Road
Frankfort, KY 40601



JAN 0 5 2022

Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 12/28/21
JOB NO: 44387
DRAWN BY:
SHEET NUMBER:



2.7.1

OF

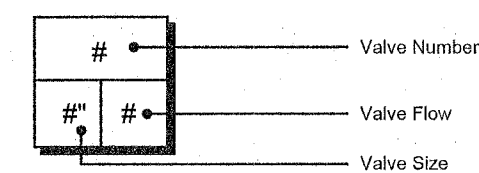
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PROS-04 5' strip spray	17
	Hunter PROS-04 8' radius	7
	Hunter PROS-04 10' radius	10
	Hunter PROS-04 12' radius	15
	Hunter PROS-04 15' radius	21

SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGP-04	5
	Hunter PGP-04	7

SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PCZ-101-40 1"	3
	Flush Valve	3
	Drip Air Relief Valve	3
	Hunter HDL-09-12-PC	1,863 l.f.

SYMBOL	MANUFACTURER/MODEL	QTY
	Hunter PGV-101G 1"	8
	Hunter HQ-44RC 1"	2
	Feeco 765 1"	1
	Hunter PC-400 with (03) PCM-300	1
	Hunter RAIN-CLIK	1
	POC 1"	1
	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	1,443 l.f.
	Irrigation Mainline: PVC Class 200 SDR 21 1"	734.9 l.f.
	Pipe Sleeve: PVC Schedule 40 2"	108.2 l.f.

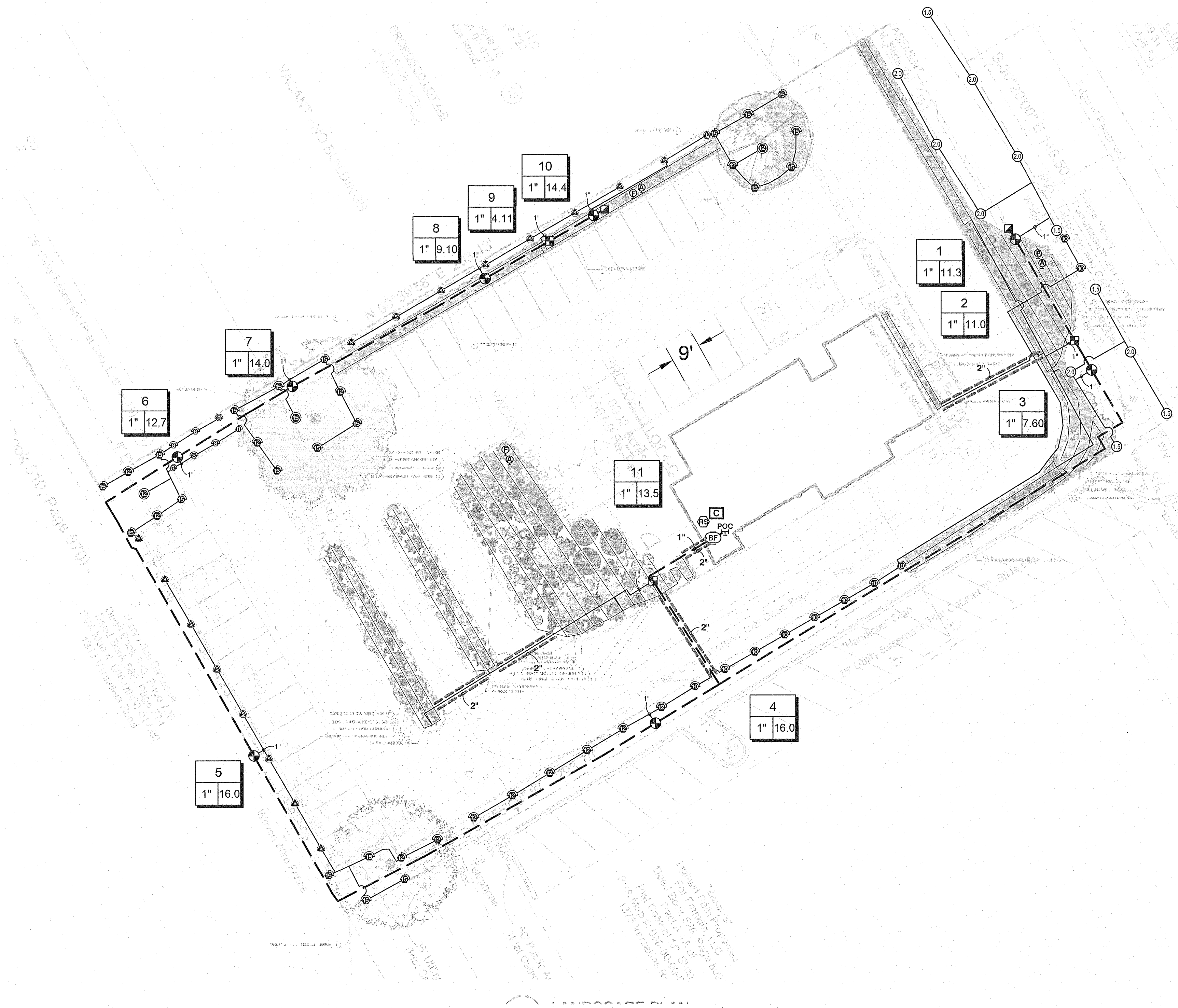
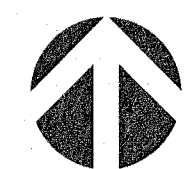


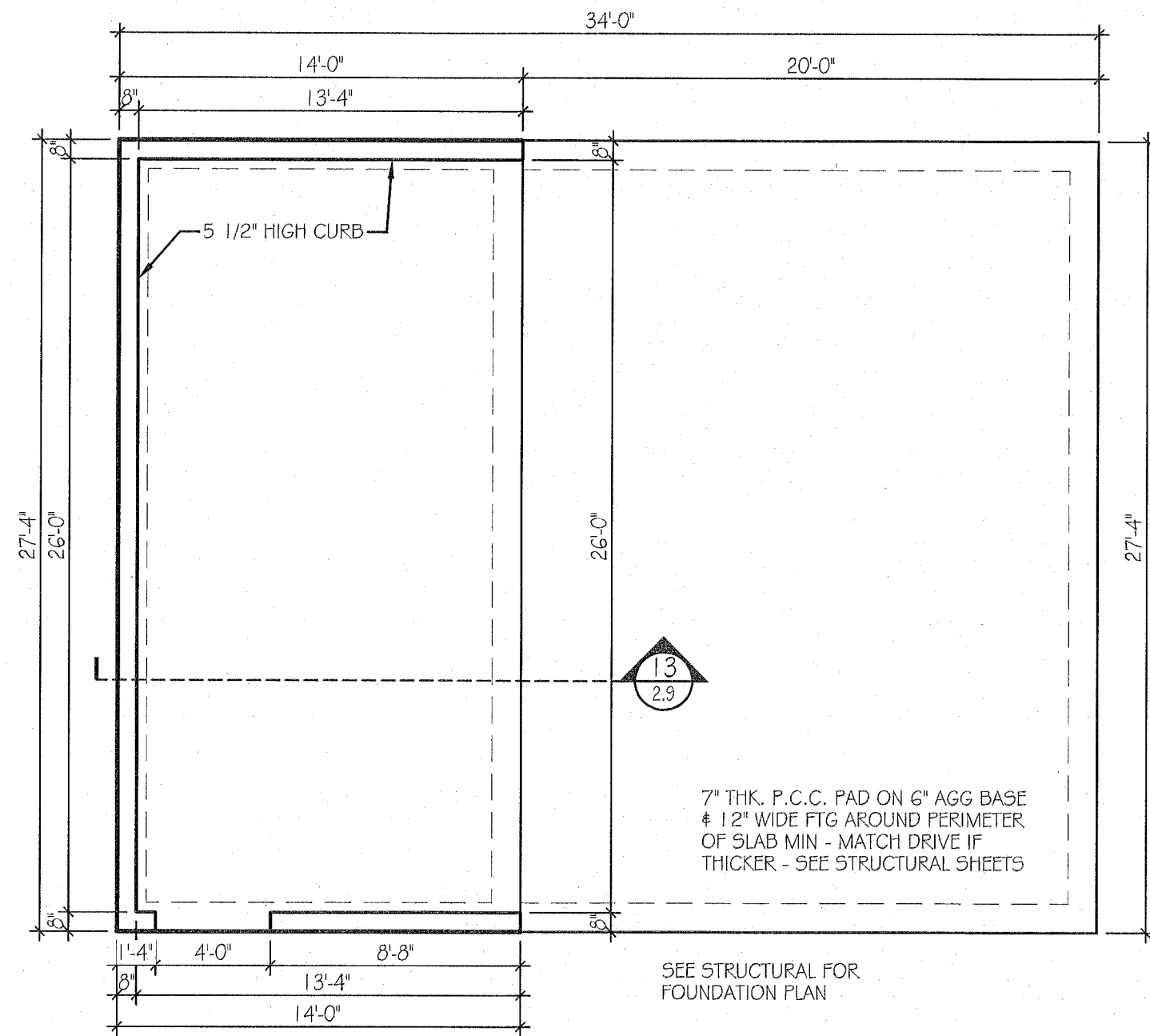
IRRIGATION SPECIFICATIONS

- IRRIGATION SYSTEM DESIGN BASED ON 16 GPM AT 55 PSI.
- IRRIGATION DESIGN IS FROM THE POINT OF CONNECTION(POC) ONLY. THE DESIGN IS BASED ON GALLONS PER MINUTE(GPM) AND POUNDS PER SQUARE INCH(Psi) FURNISHED BY OTHERS.
- IRRIGATION CONTRACTOR IS TO VERIFY POINT OF CONNECTION IN THE FIELD. INSTALLER IS TO CONFIRM THE MINIMUM DISCHARGE REQUIREMENTS OF THE POINT OF CONNECTION AS INDICATED ON THE LEGEND PRIOR TO INSTALLATION.
- THE PRESSURE REQUIREMENT AT THE POINT OF CONNECTION IS BASED ON NO MORE THAN 5 FEET OF ELEVATION CHANGE IN THE AREAS OF IRRIGATION.
- ALL PRODUCTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ACCORDING TO LOCAL BUILDING, ELECTRICAL, AND PLUMBING CODES.
- IRRIGATION CONTRACTOR WILL ARRANGE INSPECTIONS REQUIRED BY LOCAL AGENCIES AND ORDINANCES DURING THE COURSE OF CONSTRUCTION AS REQUIRED. ALL WIRING TO BE PER LOCAL CODE. BACKFLOW PREVENTION TO BE PER LOCAL CODE.
- LOCATION OF IRRIGATION COMPONENTS SHOWN ON DRAWING IS APPROXIMATE. ACTUAL PLACEMENT MAY VARY SLIGHTLY AS REQUIRED TO ACHIEVE FULL, EVEN COVERAGE.
- ALL SPRINKLER HEADS SHALL BE INSTALLED PERPENDICULAR TO FINISH GRADES. EXCEPT AS OTHERWISE INDICATED.
- INSTALL IRRIGATION MAINS WITH A MINIMUM 18" OF COVER BASED ON FINISH GRADES. INSTALL IRRIGATION LATERALS WITH MINIMUM 12" OF COVER BASED ON FINISH GRADES.
- PIPE LOCATIONS ARE DIAGRAMMATIC. VALVES AND MAINLINE SHOWN IN PAVED AREAS ARE FOR GRAPHIC CLARITY ONLY.
- THE IRRIGATION CONTRACTOR SHALL COMPLY WITH PIPE SIZES AS INDICATED.
- ALL WIRE SPLICES OR CONNECTIONS SHALL BE MADE WITH APPROVED WATERPROOF WIRE CONNECTIONS AND BE IN A VALVE OR SPLICE BOX.
- ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14 AWG, UL APPROVED DIRECT BURY.
- THE DESIGN IS BASED ON THE SITE INFORMATION AND/OR DRAWING SUPPLIED WITH THE DESIGN CRITERIA BEING SET (AREA TO BE IRRIGATED, EQUIPMENT MANUFACTURER AND MODEL TO BE USED, WATER SOURCE INFORMATION, ELECTRICAL POWER AVAILABILITY, ETC...). SITEONE LANDSCAPE SUPPLY BEARS NO RESPONSIBILITY OR LIABILITY FOR ANY ERRORS IN DESIGN OR INSTALLATION THAT ARISE DUE TO INACCURACIES IN THE ABOVE REFERENCED INFORMATION SUPPLIED TO SITEONE LANDSCAPE SUPPLY LANDSCAPES IN RELATION TO THIS PROJECT, UNLESS OTHERWISE NOTED.

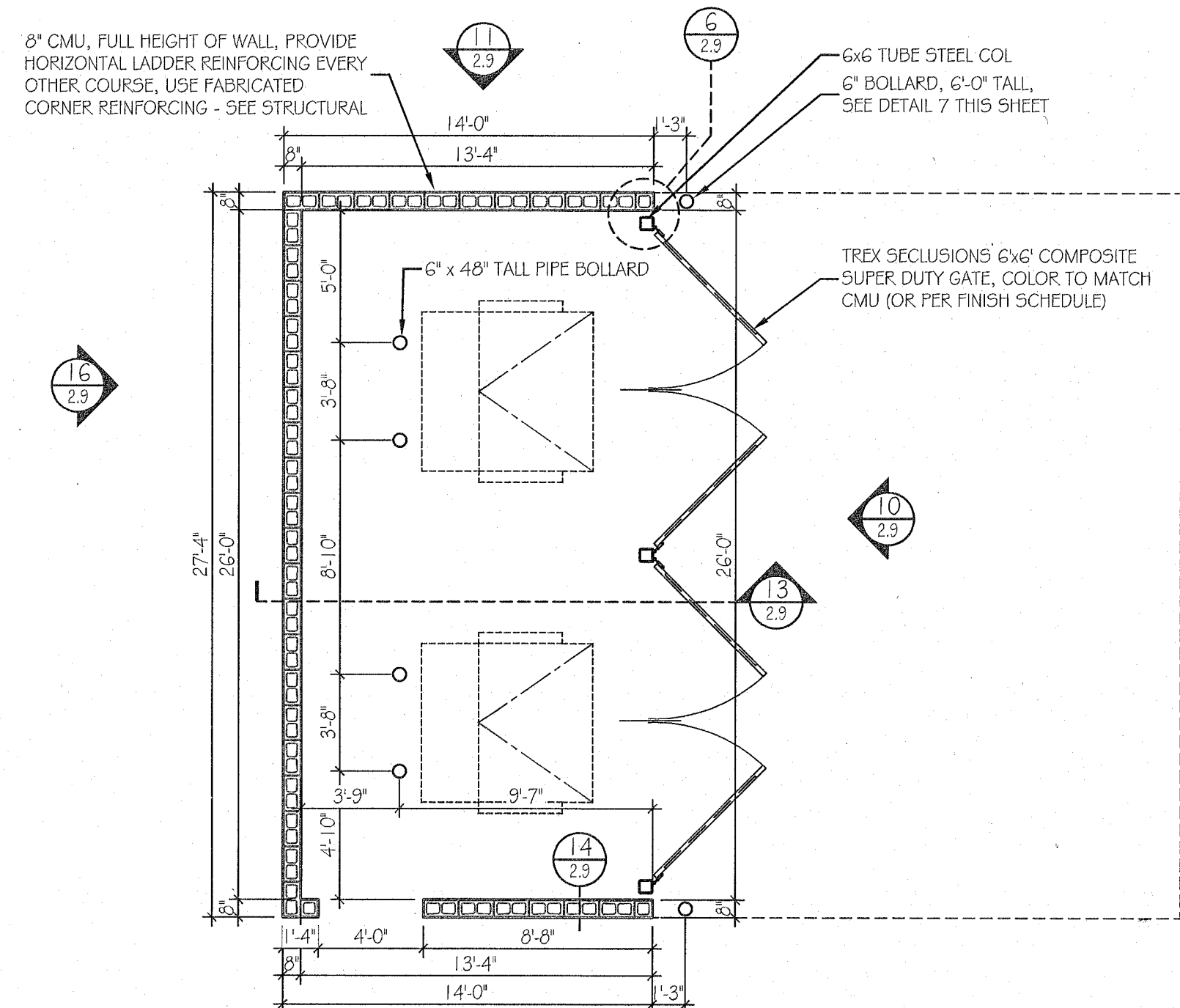
SCALE: 1" = 20' - 0"

0' 10' 20' 40'

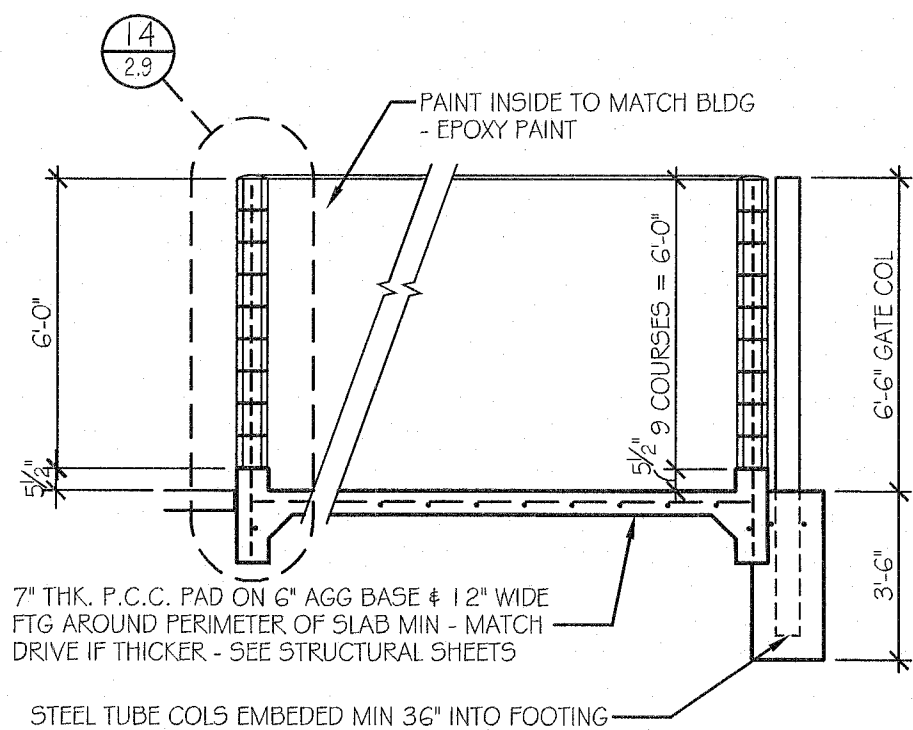




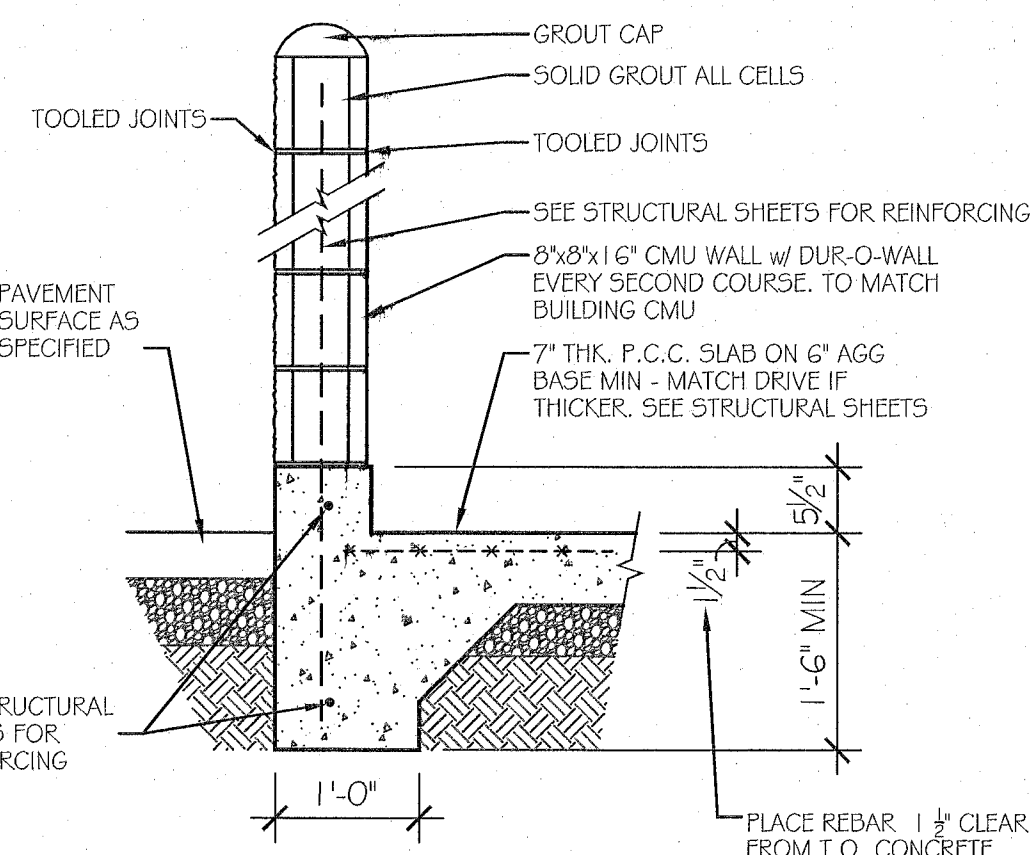
1 FOUNDATION PLAN
SCALE: 3/16" = 1'-0"



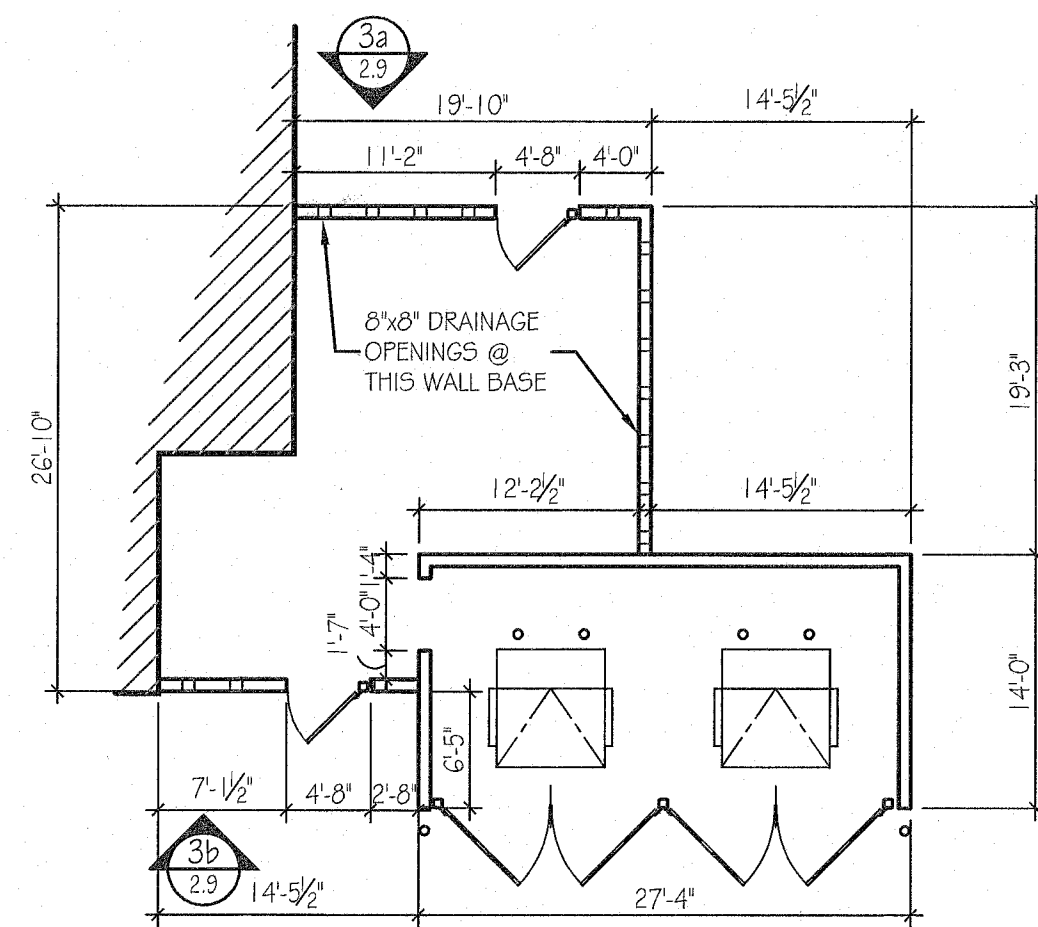
9 DUMPSTER FLOOR PLAN
SCALE: 3/16" = 1'-0"



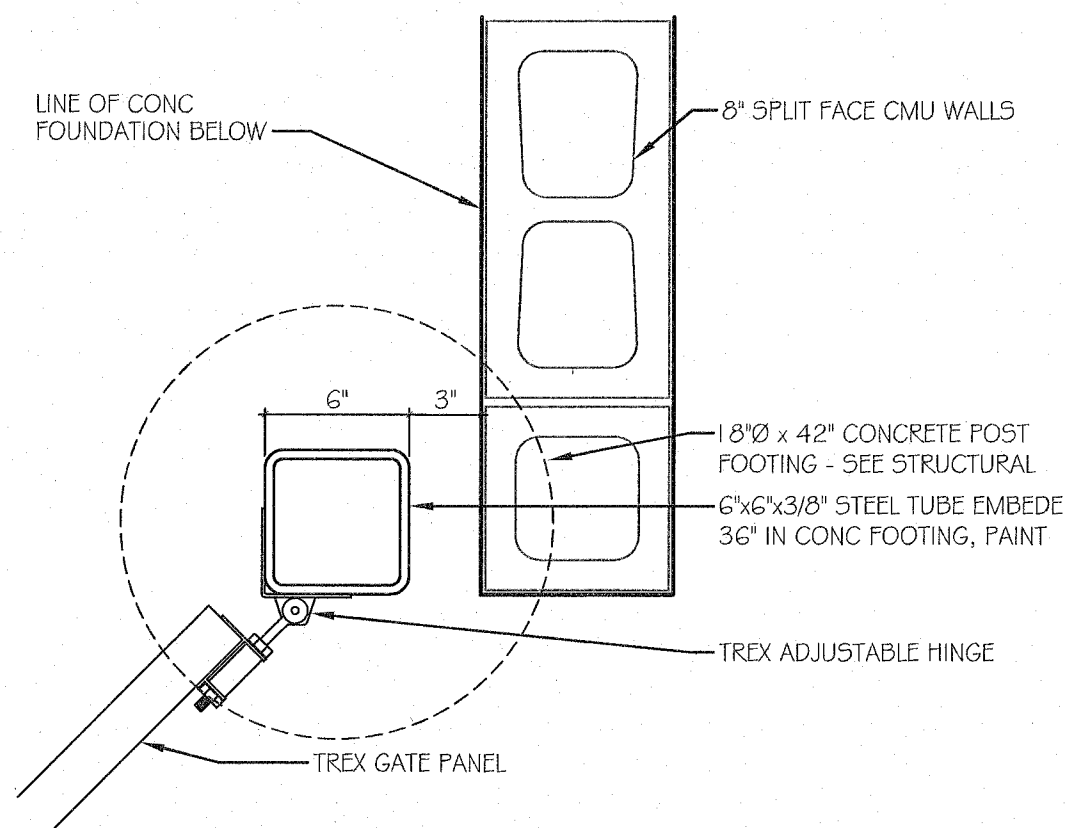
13 DUMPSTER SECTION
SCALE: 1/4" = 1'-0"



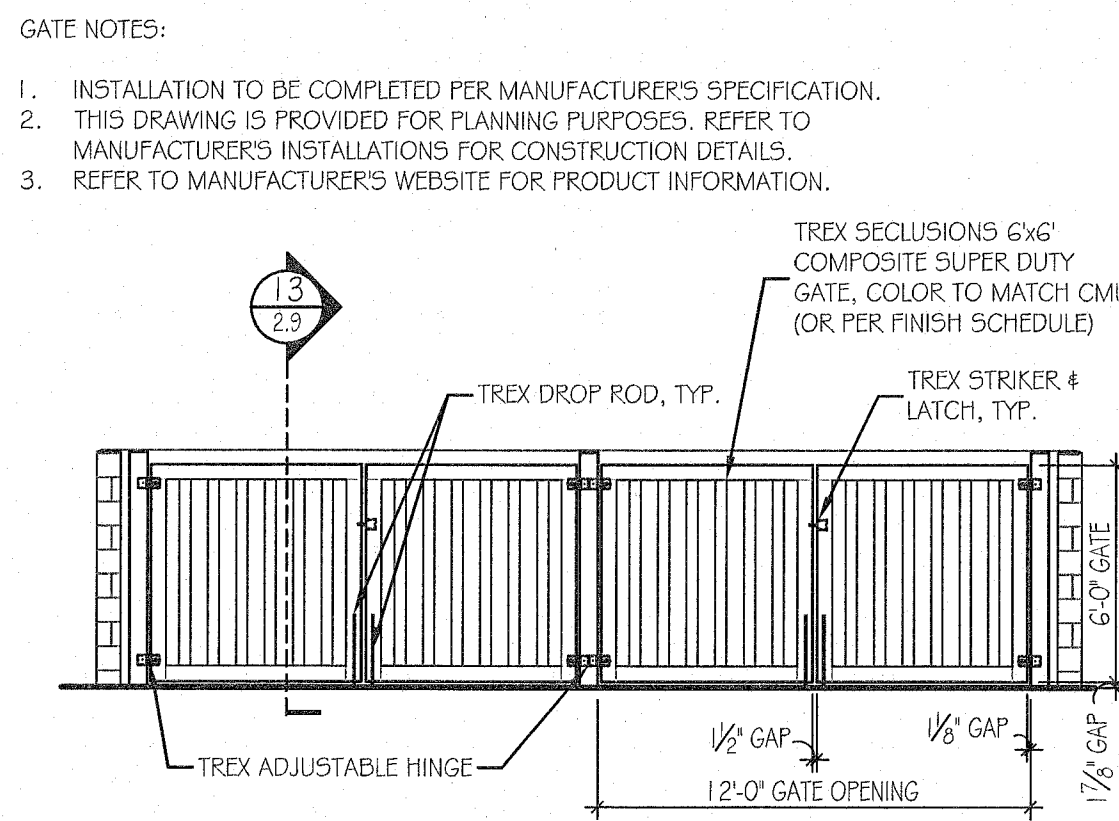
14 TYPICAL DUMPSTER WALL
SCALE: 3/4" = 1'-0"



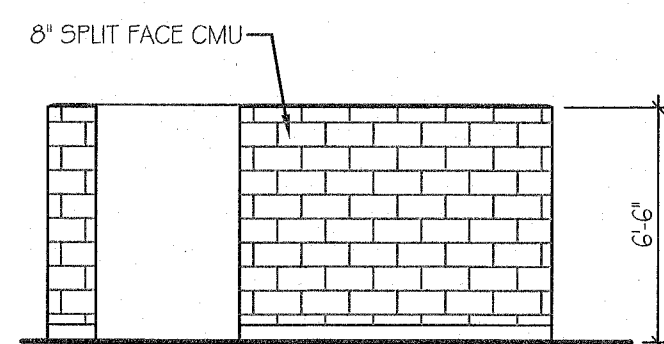
2 BACK DOCK PLAN
SCALE: 3/32" = 1'-0"



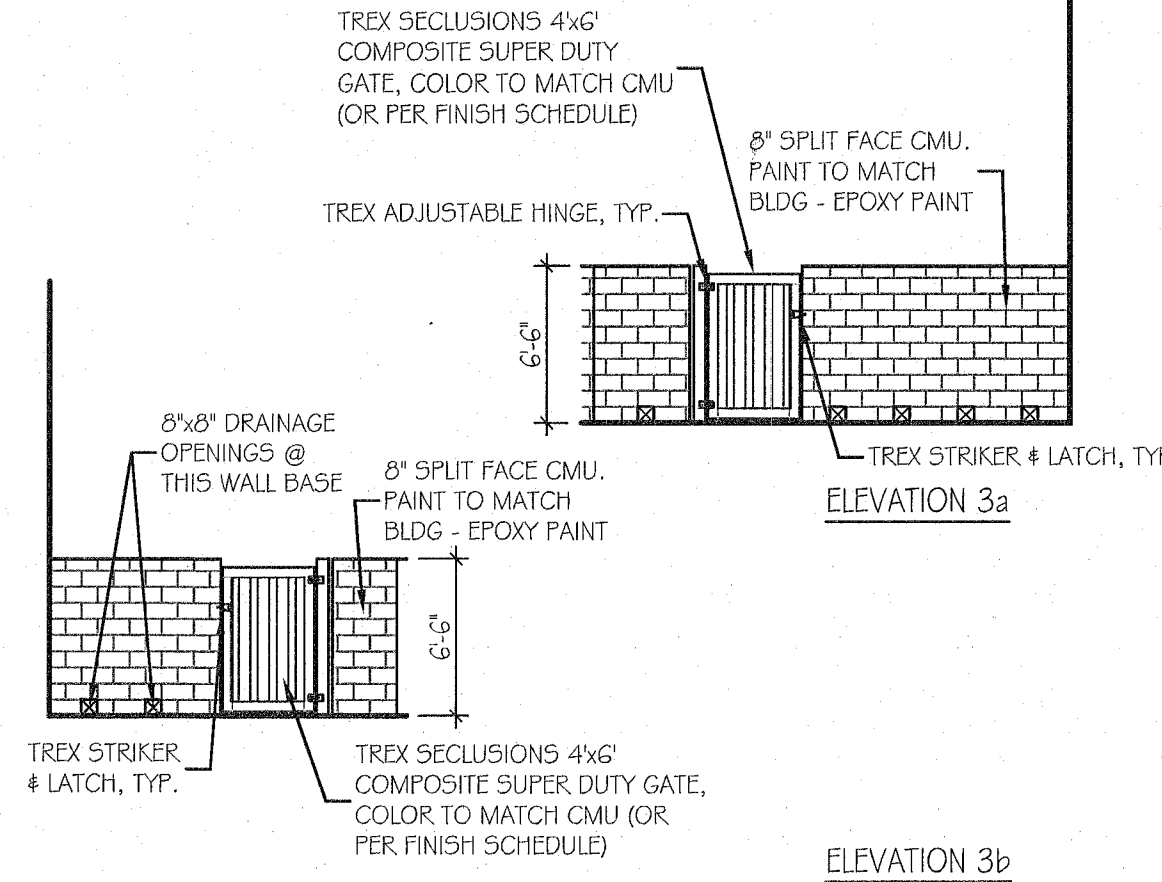
6 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



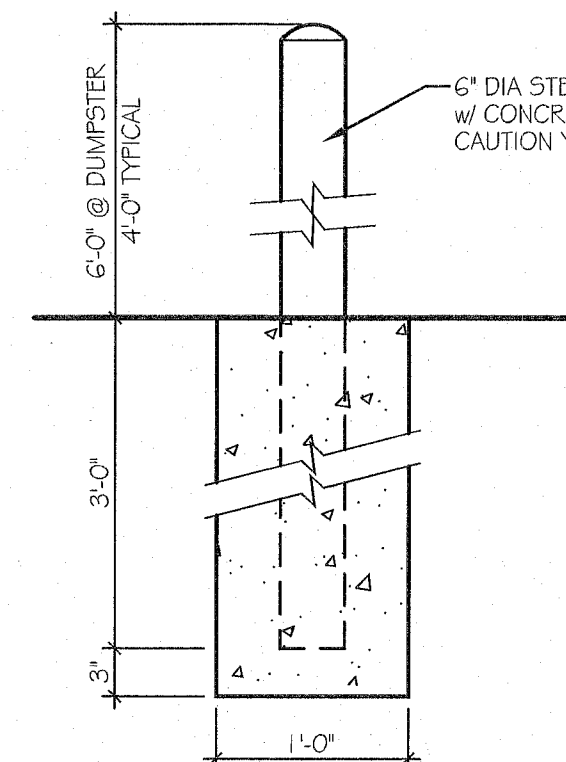
10 FRONT ELEVATION
SCALE: 3/16" = 1'-0"



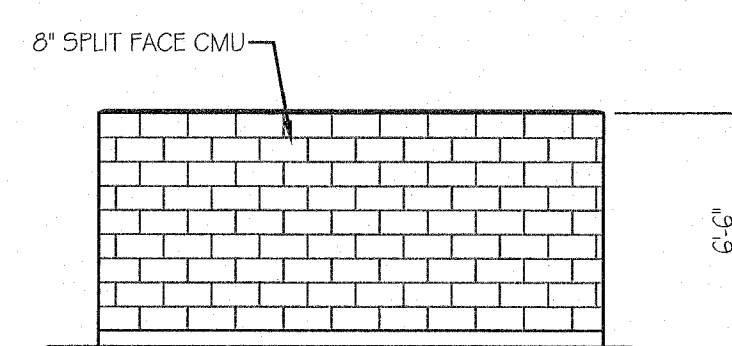
15 SIDE ELEVATION
SCALE: 3/16" = 1'-0"



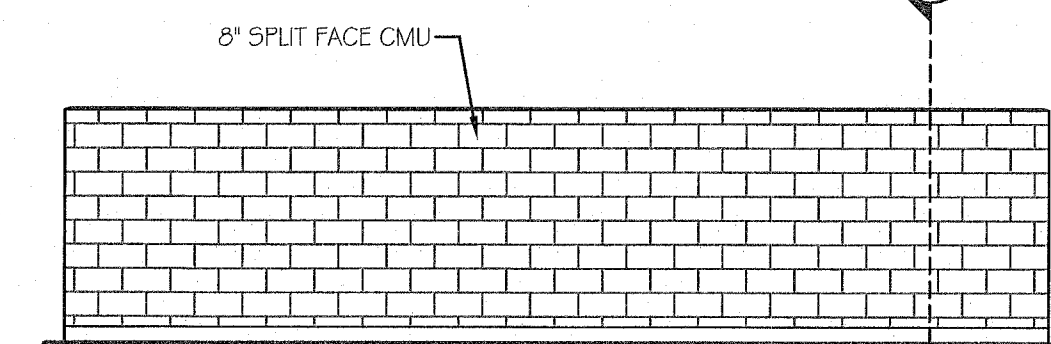
3 BACK DOCK ELEVATIONS
SCALE: 1/8" = 1'-0"



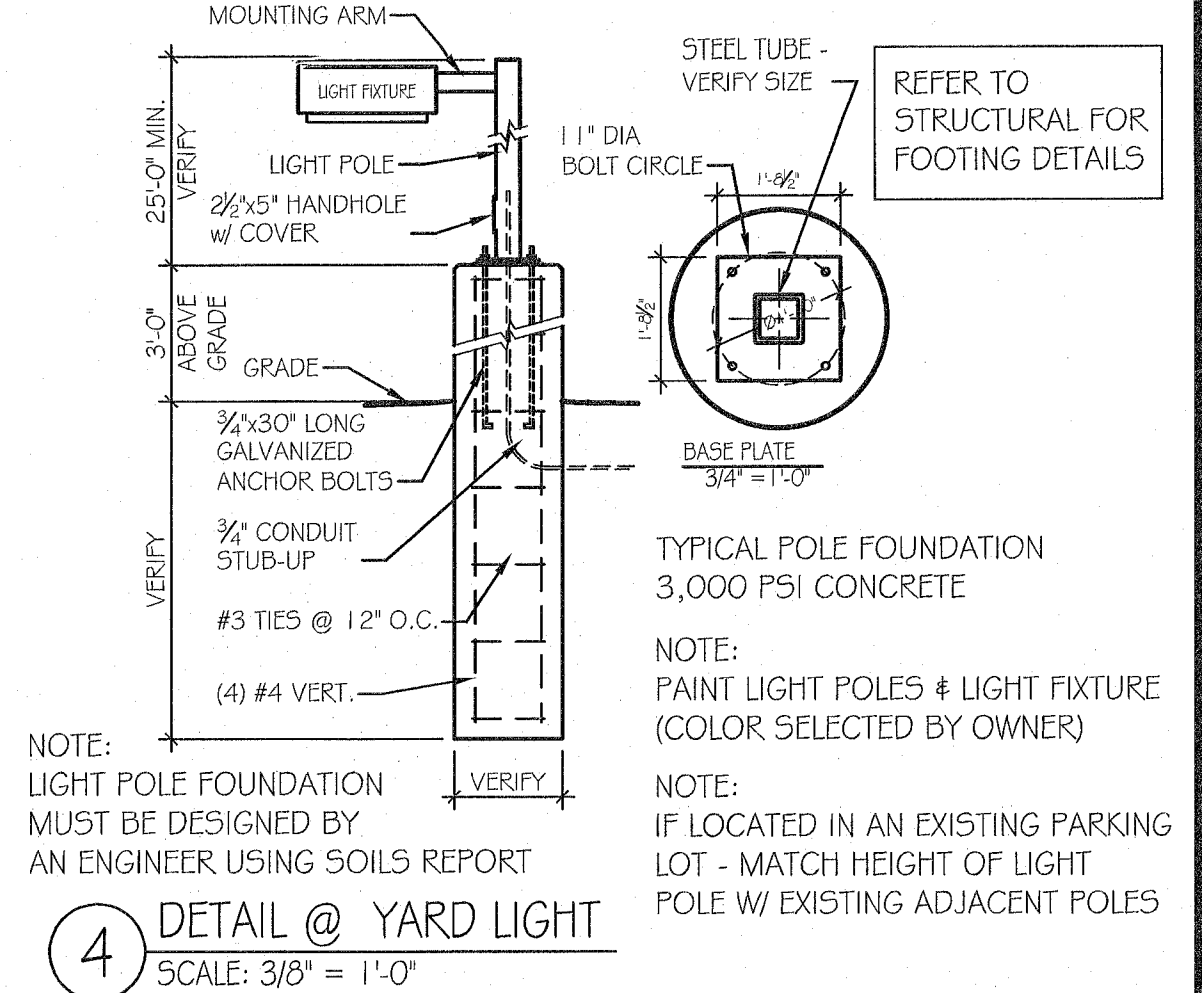
7 TYPICAL BOLLARD
SCALE: 1" = 1'-0"



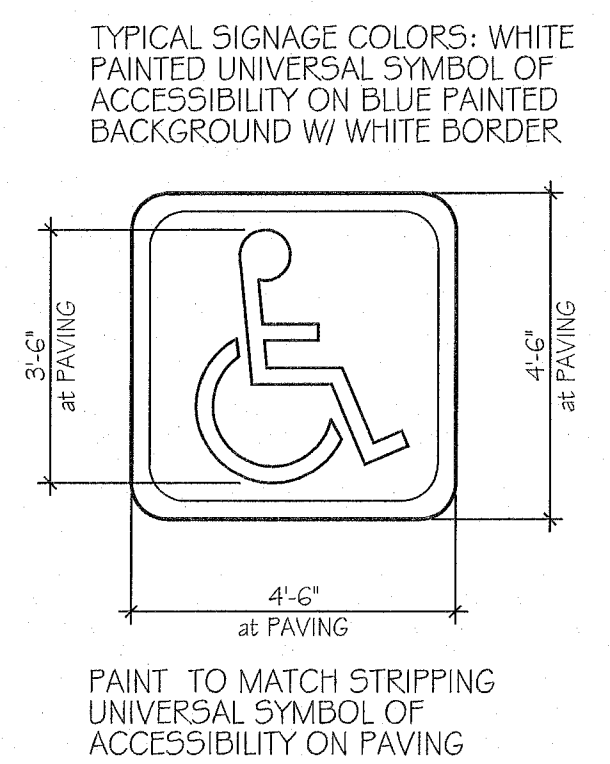
11 SIDE ELEVATION
SCALE: 3/16" = 1'-0"



16 BACK ELEVATION
SCALE: 3/16" = 1'-0"

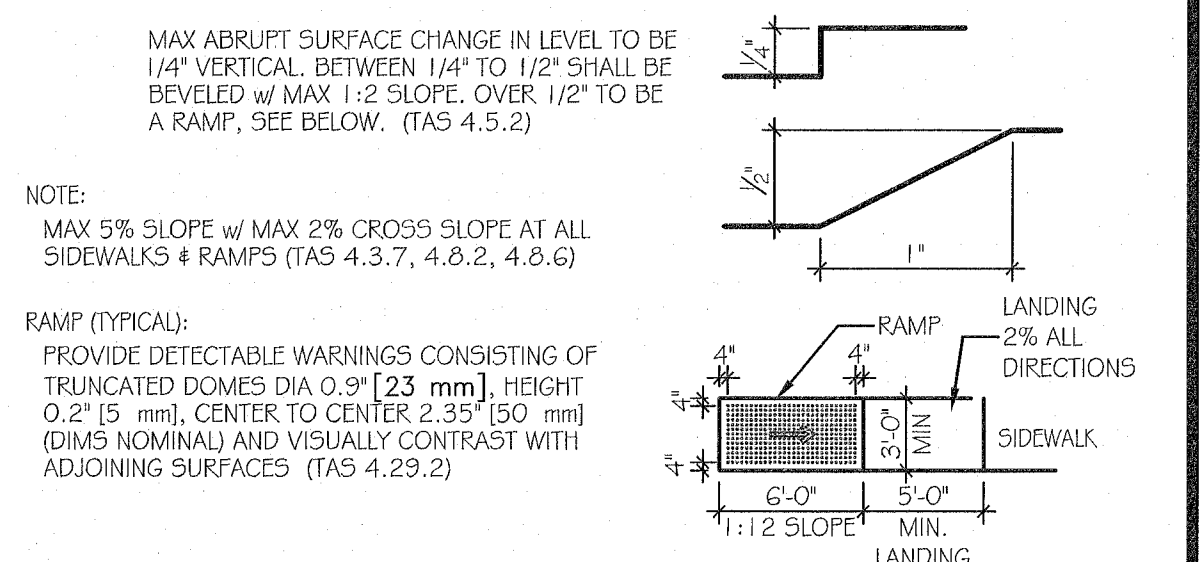


4 DETAIL @ YARD LIGHT
SCALE: 3/8" = 1'-0"



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

12 NOT USED

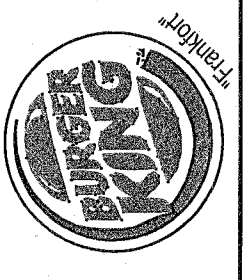


17 TYPICAL RAMP DETAIL
SCALE: 1/8" = 1'-0"

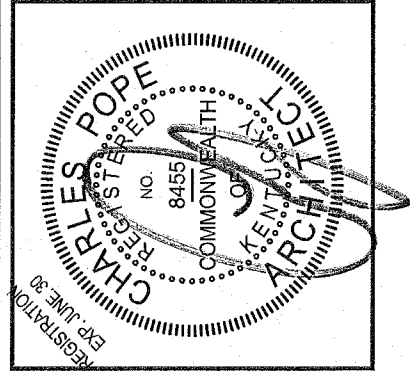
REVISIONS:

DUMPSTER DETAILS

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

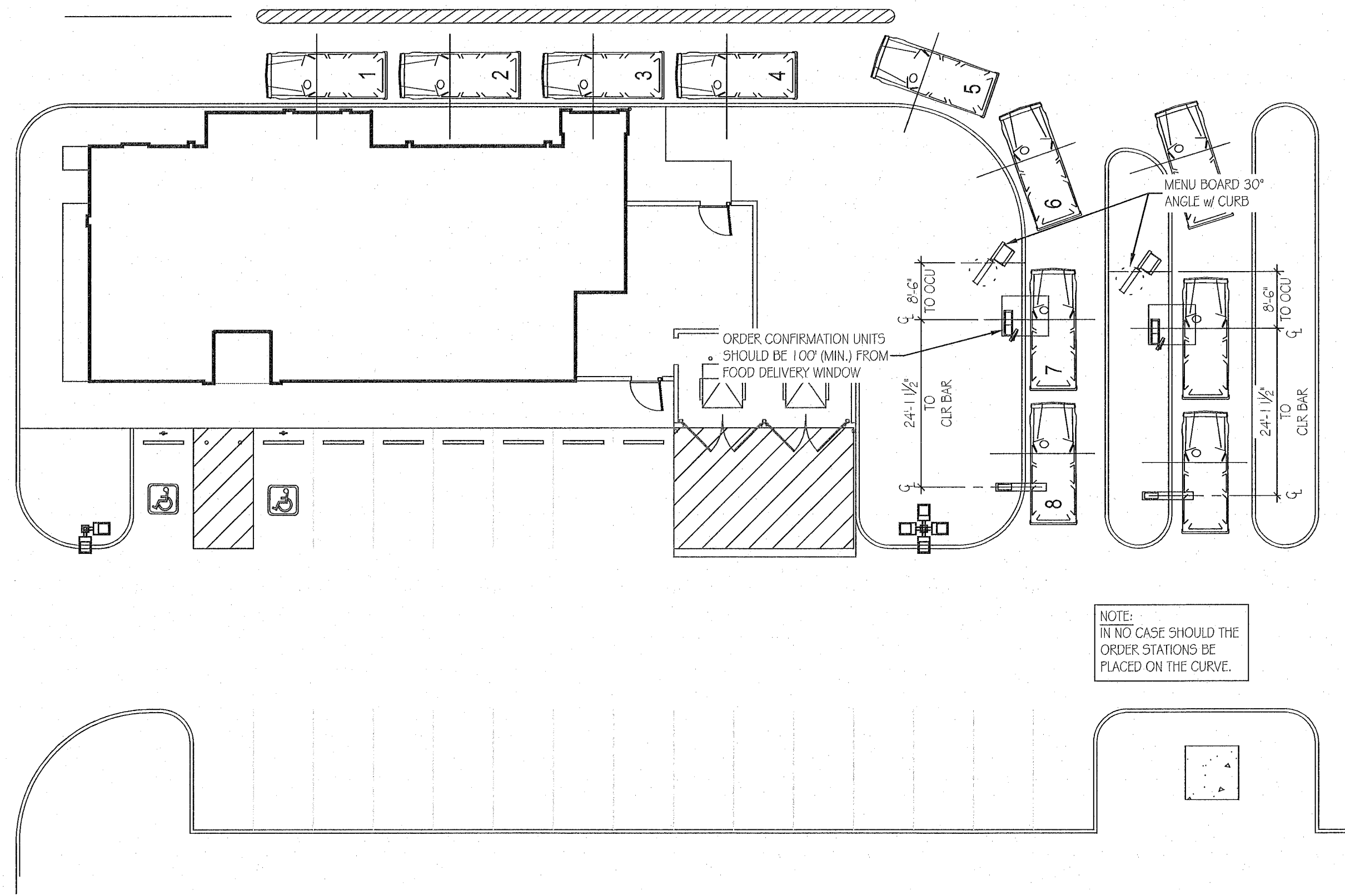


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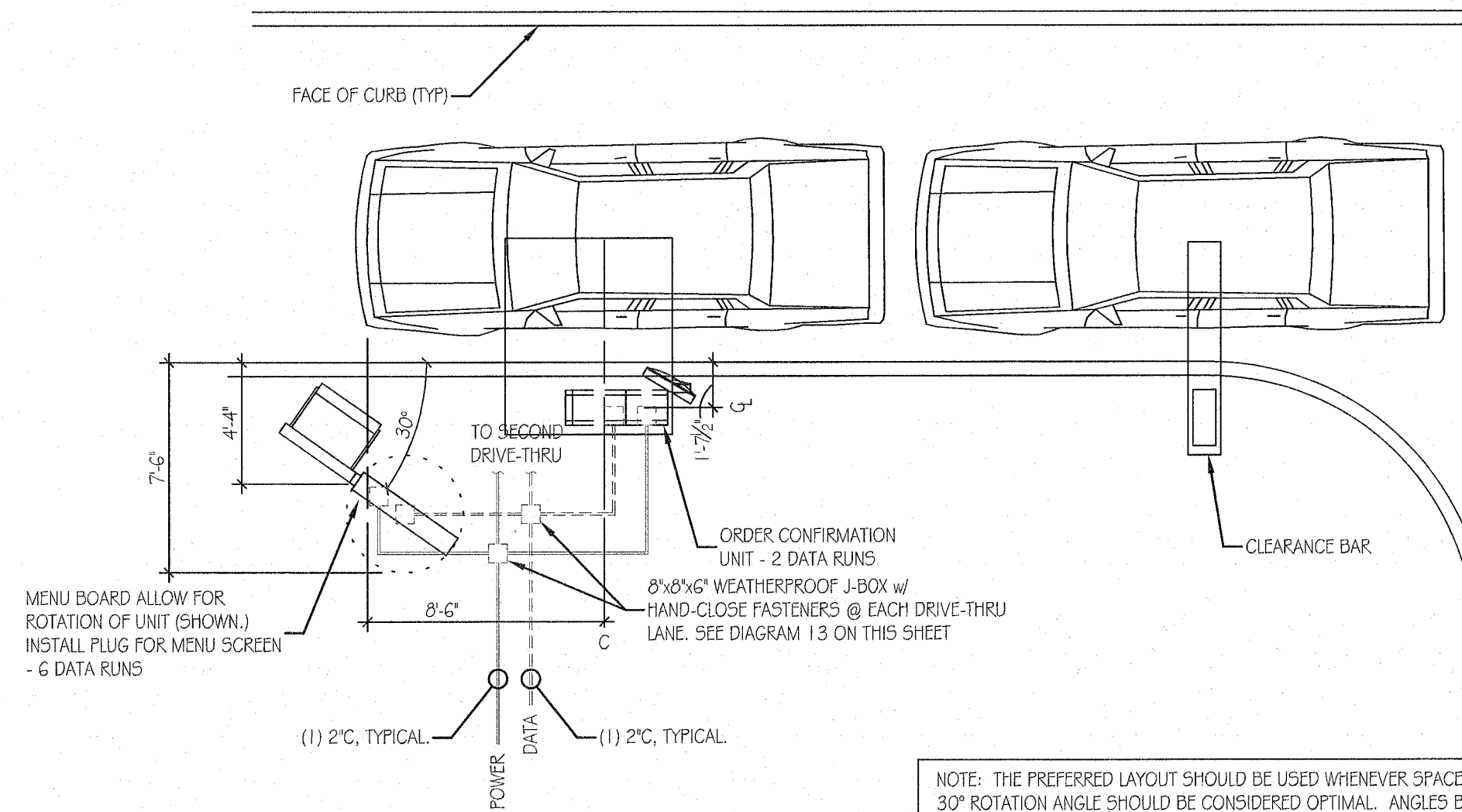


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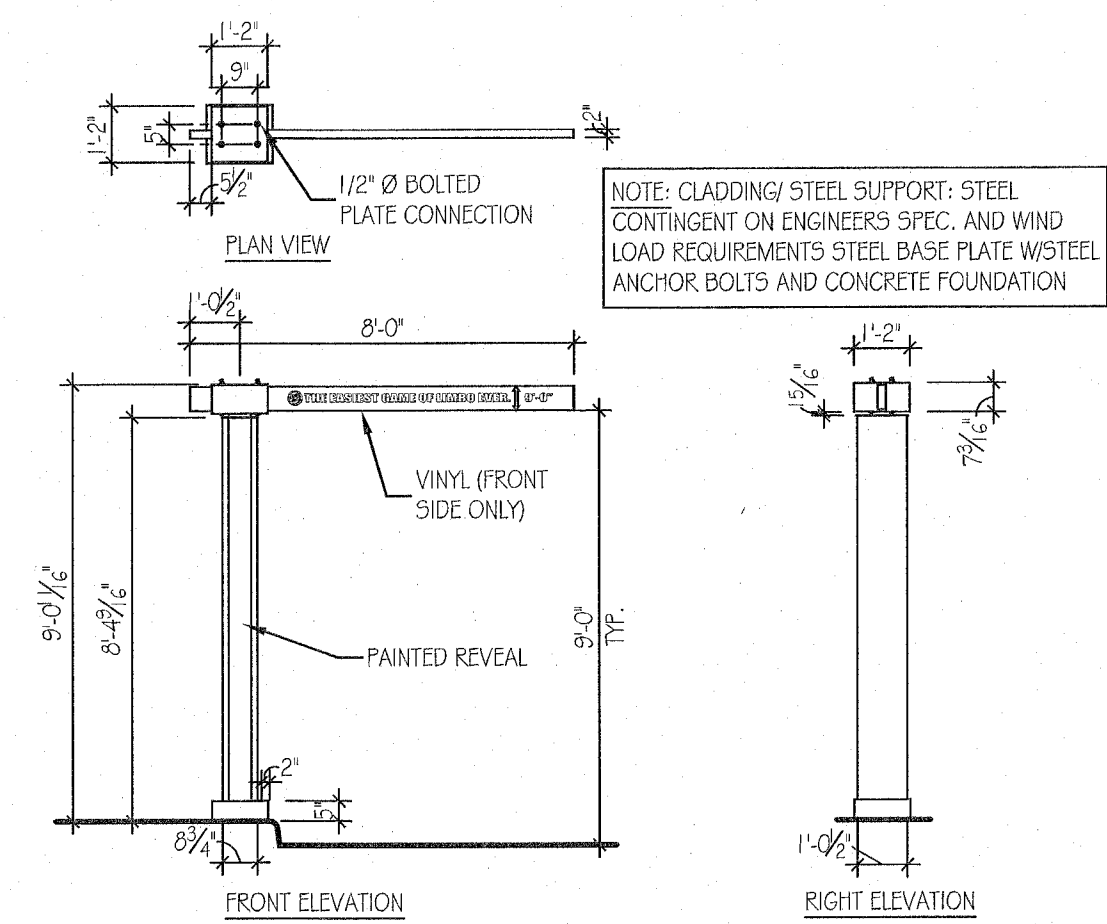
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JOB NO: 44387
DRAWN BY: *W.P.*
SHEET NUMBER: 2.9
OF



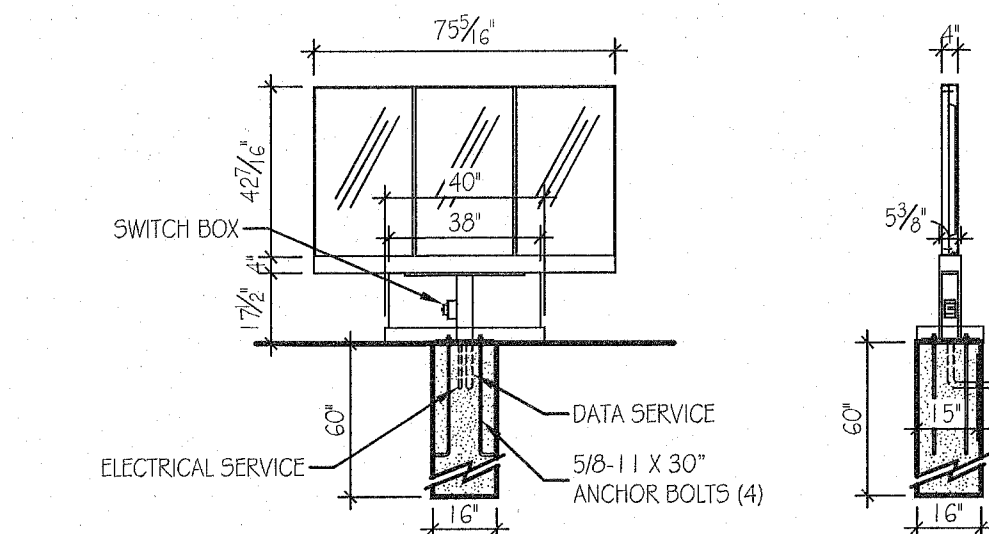
6 ENLARGED SITE PLAN
SCALE: 1/16" = 1'-0"



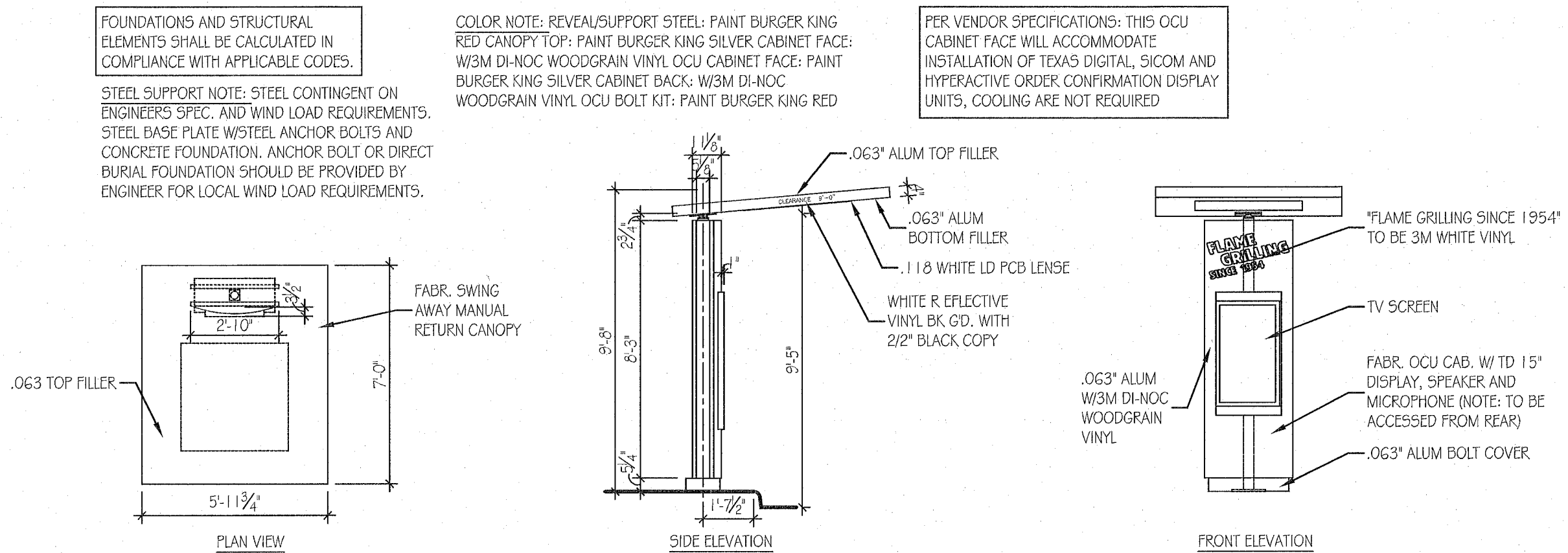
8 DRIVE-THRU PREFERRED LAYOUT
SCALE: 3/16" = 1'-0"



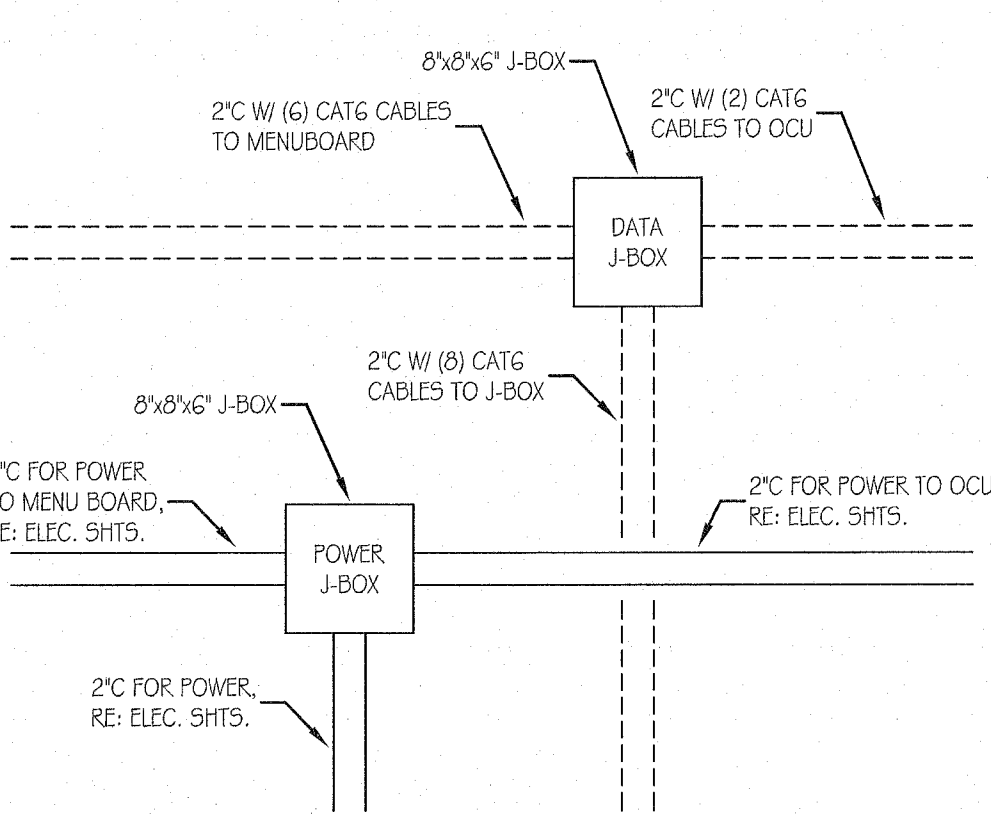
5 CLEARANCE BAR
SCALE: 1/4" = 1'-0"



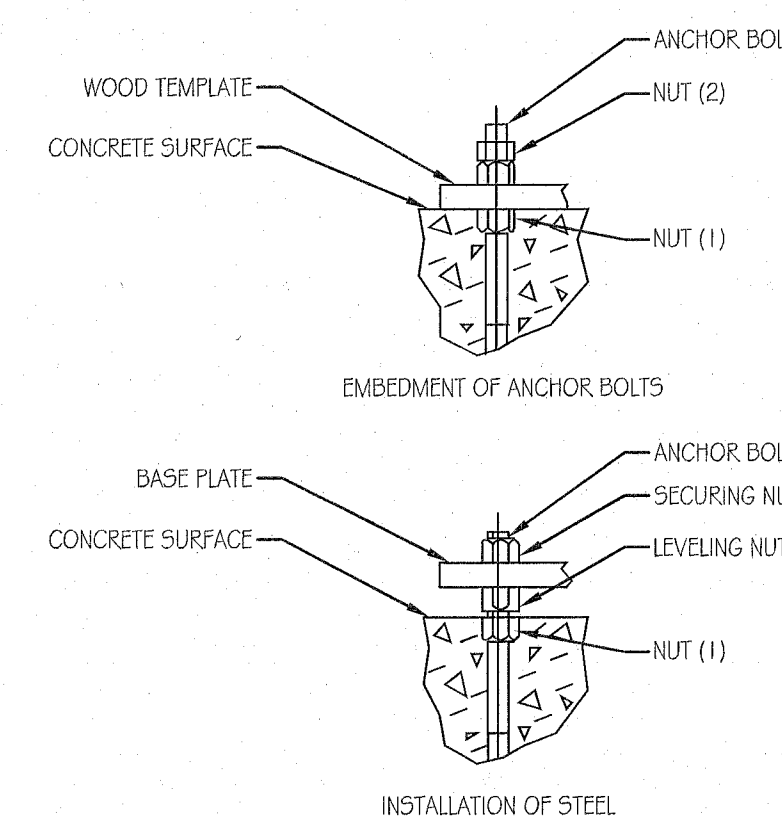
10 MENUBOARD ELEVATIONS
SCALE: 1/4" = 1'-0"



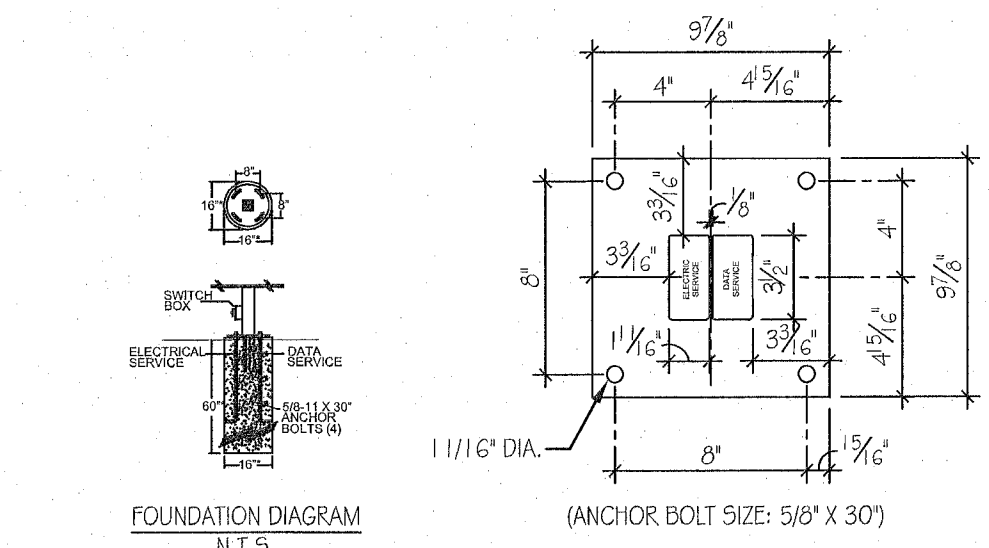
11 ORDER CONFIRMATION UNIT
SCALE: 1/4" = 1'-0"



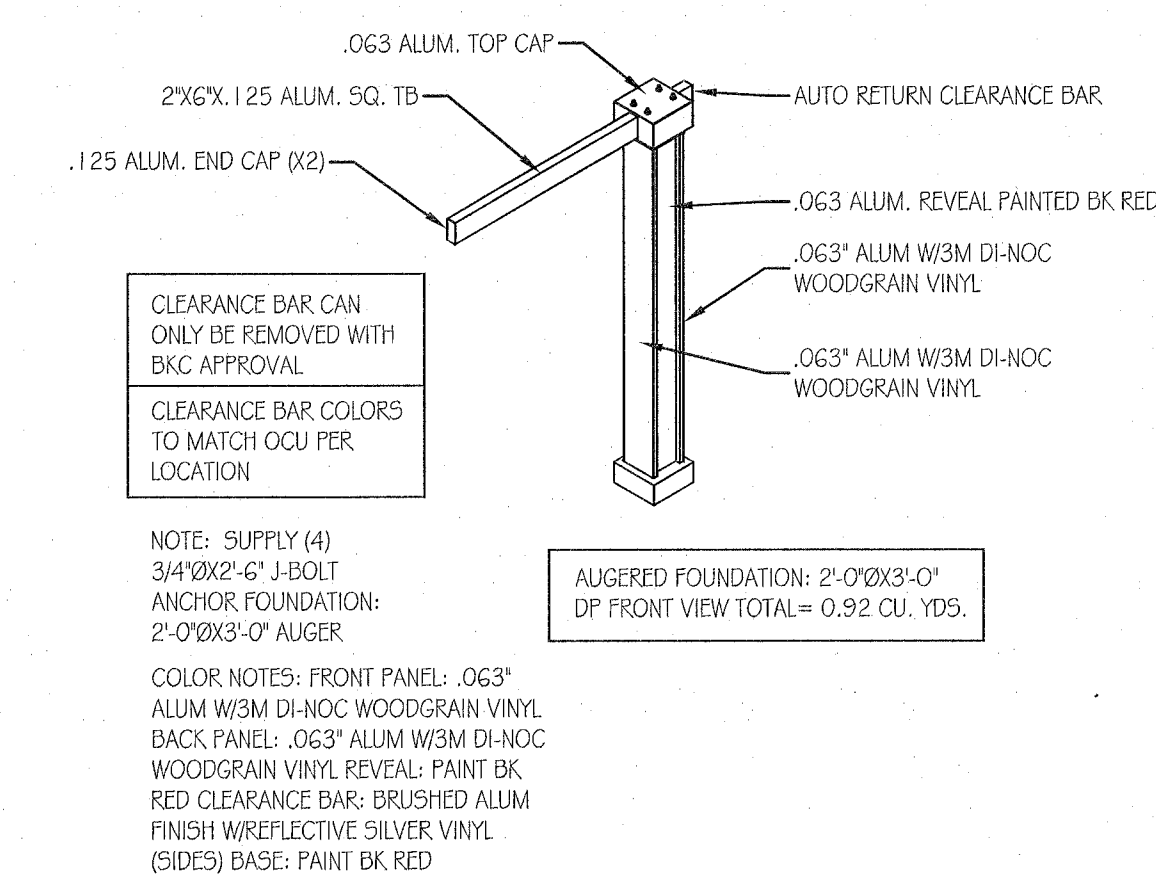
13 J-BOX DIAGRAM
SCALE: 1" = 1'-0"



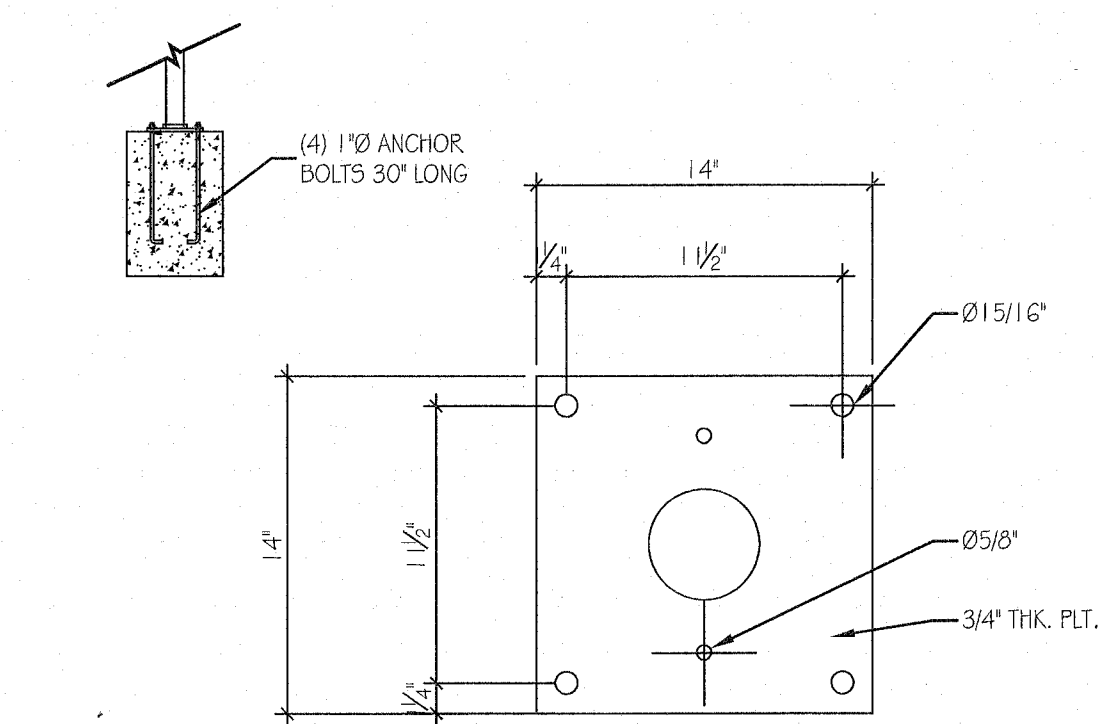
14 ANCHOR BOLT INSTALLATION
SCALE: NTS



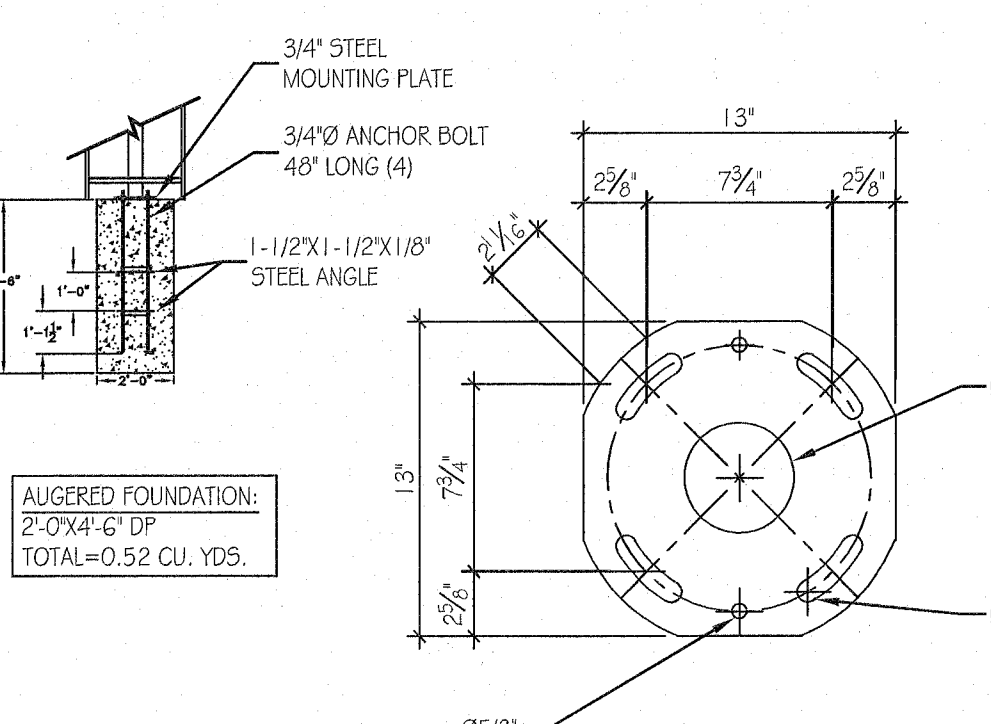
15 DRIVE THRU ANCHOR BOLT TEMPLATE
SCALE: 1 1/2" = 1'-0"



16 CLEARANCE BAR ISOMETRIC
SCALE: NTS



17 CLEARANCE BAR BASE PLATE
SCALE: 1 1/2" = 1'-0"



18 OCU BASE PLATE
SCALE: 1 1/2" = 1'-0"

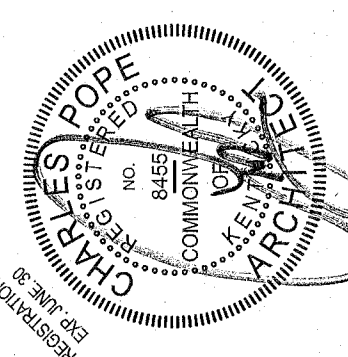
VERIFY CONCRETE FOOTINGS,
BOLT PATTERNS, SIZE, ETC.
w/ CURRENT APPROVED SIGN
& EQUIPMENT VENDOR

REVISIONS:

ARCHITECTURAL SITE DETAILS

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

DEC 01 2021



Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 12.01.21
JOB NO: 44387
DRAWN BY: CWP
SHEET NUMBER: 2.10
OF

FILE NAME: BK03.1 Floor Plans
DRAWING: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWING SCALE: 1/4" = 1'-0"
PLOT SCALE: 1/4"

KEYED NOTES:

1. SELF-SERVE DRINKS AND CONDIMENT STAND. REFER TO SHEET 10.1.
2. STEEL BOLLARD - REFER TO SHEET 2.8.
3. ELECTRIC SERVICE. REFER TO ELECTRICAL DRAWINGS.
4. SERVICE COUNTER PARTITION BY G.C. REFER TO ELECTRICAL SHEETS 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 9/4.6.
6. MENU BOARD BULKHEAD ABOVE. REFER TO DETAIL 6/4.6.
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 AWNING/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.
PROVIDE ALTERNATE BID OF 5/8" USG "FIBEROCK" PANELS IN LIEU OF DUROCK.
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
ELECTRICAL PANELS
OPTION #1:
RECESS ELECTRICAL CONTRACTOR PANEL AND ELECTRICAL PANELS IN FURRED OUT WALL ADJACENT TO EXTERIOR FRAMING. G.C. TO VERIFY PANEL SIZES PRIOR TO FURR-OUT TO INSURE ADEQUATE SPACE.

- OPTION #2:
HILL PHOENIX INTEGRATED WALL UNIT INCLUDES ELECTRICAL PANELS AND MASTER CONTRACTOR PANEL IN ONE CABINET. UNIT TO BE SURFACE MOUNTED ON A 4" HIGH CONCRETE CURB. REFERENCE SHEET ELEC. FOR ADDITIONAL INFORMATION.
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, SEE SHEET 10.2 FOR SIZE-COORDINATE w/ OWNER.
 16. 4" DEEP FURR-OUT ELEMENT (FINISH WIDTH SHOWN) AT TOWER. REFER TO WALL SECTIONS.
 17. TILE FLOOR (REFERENCE SPECIFICATIONS ON DECOR SHEETS).
 18. DRIVE-THROUGH SLIDING WINDOW. QUICKSERV IFSC-4040

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 7/4.6.
21. USG 5/8" DUROCK (BOTH SIDES) ON 6", 18 GAUGE CEE STUD FRAMING BEHIND HOOD (SEE STRUCTURAL SHEETS FOR SPACING). WALL TO EXTEND 18" BEYOND EACH END OF HOOD.
22. STAINLESS STEEL PANELS FULL WIDTH OF INDICATED WALL. ENSURE 18" BEYOND HOOD AT EACH END. SUPPLIED AND INSTALLED BY G.C. VERIFY HOOD SIZE(S) w/ SUPPLIER.
23. NOT USED.
24. - - - - - INDICATES 3"x12" SUBWAY TILE. REFER TO DECOR PACKAGE. REMAINING BACK OF HOUSE WALLS TO BE FINISHED IN FRP-1 (REFER TO 5.1).
25. 8" STUD WALL. REFER TO INTERIOR FINISH SCHEDULE.

Wall Tag	Location	Size	Type	Height	Interior	Exterior	Insul	Remarks	Reference
4C	Int.	3 1/2"	Wood	6" Above Clg				Kit & Toilet: 5/8" Durock to 24" a.f.f. w/ 5/8" sheathing above	CDX Plywood where sheathing is to hung on wall
4F	Ext.	3 1/2"	Wood	Full				Wall tag 6F - 2x4 stud wall w/ exterior grade sheathing & Tyvek	See sheet 4.0 & 4.2.2
6C	Int.	5 1/2"	Wood	6" Above Clg				Kit & Toilet: 5/8" Durock to 24" a.f.f. w/ 5/8" sheathing above	MR Board (WP Wallboard) @ Wet Walls
6F	Ext./Int.	5 1/2"	Wood	Full				Kit & Toilet: 5/8" Durock to 24" a.f.f. w/ 5/8" sheathing above	MR Board (WP Wallboard) @ Wet Walls
6M	Int.	6"	Metal	Full				6" 18 GA. metal studs @ 16" O.C. w/ 18 GA. top and bottom track.	Kit & Toilet: 5/8" Durock to 24" a.f.f. w/ 5/8" sheathing above
8C	Int.	7 1/4"	Wood	6" Above Clg				Kit & Toilet: 5/8" Durock to 24" a.f.f. w/ 5/8" sheathing above	MR Board (WP Wallboard) @ Wet Walls
10C	Int.	9 1/4"	Wood	6" Above Clg				Kit & Toilet: 5/8" Durock to 24" a.f.f. w/ 5/8" sheathing above	MR Board (WP Wallboard) @ Wet Walls
C	Int.	4"	Cooler	-	-	-	-	Walk-in Cooler - Maintain 2" min clearance @ all walls	7) Gyp Bd. to be 5/8" type "X" - typical

1) See Sheet 5.1 for Room Finish Schedule & Notes
2) See Structural for Stud Spacing
3) Provide Sound Batt Insul @ Exterior Walls, Toilet Rooms & Office

4) See Sheet 3.3.1 & 3.3.2 for Exterior Finishes
5) RR, Warewash & Mech Faces - 5/8" water resistant gyp bd
6) See Sheets 3.4, 11.1 for Interior Finishes

7) Gyp Bd. to be 5/8" type "X" - typical
8) CDX Plywd to be 5/8" - typical
9) Provide fireblocking in walls as required per code.

GENERAL NOTES:

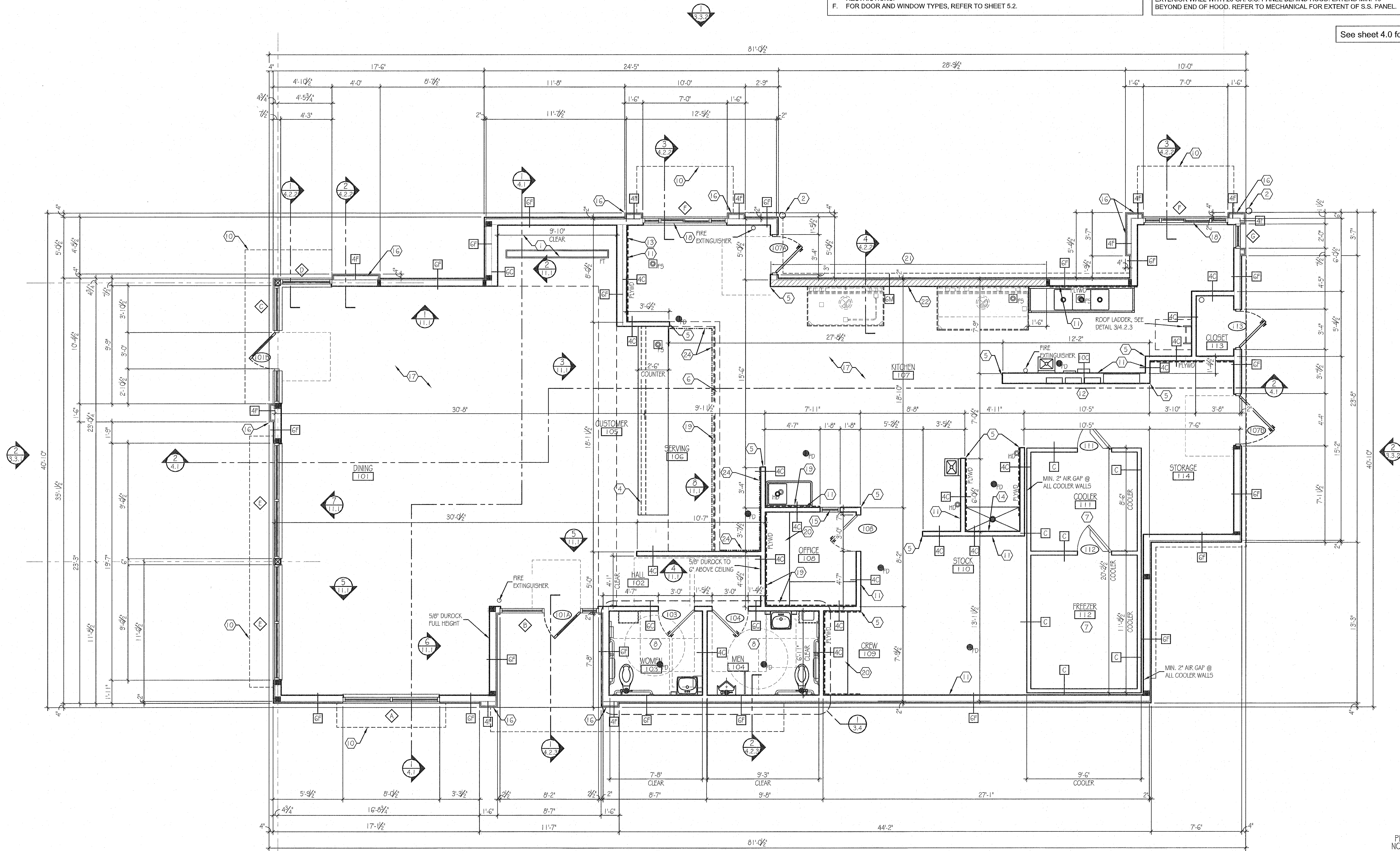
- A. PERIMETER EXTERIOR DIMENSIONS ARE TO FACE OF THE FOUNDATION EDGE. REFER TO STRUCTURAL SHEETS FOR FACE OF CONC. DIMENSIONS.
- B. INTERIOR DIMENSIONS ARE TO FACE OF STUD U.O.N.
- C. DIMENSIONS NOTED AS "CLEAR" OR "HOLD" ARE MIN. REQ'D. NET CLEARANCE FROM FACE OF WALL FINISH. VERIFY FINAL EQUIPMENT SIZES w/ VENDOR PRIOR TO INT. WALL FRAMING.
- D. ALL ANGLED WALLS ARE AT 90° UNLESS NOTED OTHERWISE.
- E. FIRE EXTINGUISHER, SHALL COMPLY WITH APPLICABLE BUILDING CODES AND LOCAL RESTRICTIONS.
- F. FOR DOOR AND WINDOW TYPES, REFER TO SHEET 5.2.

HOODWALL NOTES:

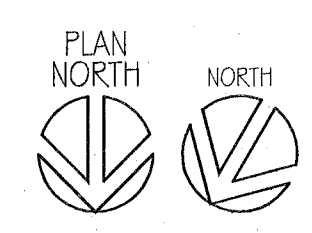
ATTACH WOOD PLATE TO FOUNDATION THEN 18 GA. BOTTOM TRACK. INSTALL METAL STUDS w/ 18 GA. TOP TRACK. SEE STRUCTURAL SHEETS FOR SPACING. PLACE 2 - 2X6 WOOD TOP PLATE ON TOP. ENSURE BOTTOM PLATE IS ANCHORED DOWN TO FOUNDATION w/ 5/8" EXPANSION ANCHOR BOLTS PER SCHEDULE. REFER TO STRUCTURAL SHEETS.

HOODWALL:
EXTERIOR WALL WITH 20 GA. S.S. PANEL BEHIND HOOD. EXTEND MIN. 18" BEYOND END OF HOOD. REFER TO MECHANICAL FOR EXTENT OF S.S. PANEL.

See sheet 4.0 for insulation notes



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



REVISIONS:

1	CDX Plywood where sheathing is to hung on wall
2	See sheet 4.0 & 4.2.2
3	MR Board (WP Wallboard) @ Wet Walls
4	MR Board (WP Wallboard) @ Wet Walls
5	MR Board (WP Wallboard) @ Wet Walls
6	MR Board (WP Wallboard) @ Wet Walls
7	Gyp Bd. to be 5/8" type "X" - typical
8	CDX Plywd to be 5/8" - typical
9	Provide fireblocking in walls as required per code.

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

NOV 18 2021

Charles Pope
William Pope
& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11.18.21
JOB NO: 44387
DRAWN BY: J.R.K.
SHEET NUMBER: 3.1
OF

FILE NAME: RKC3 2 Ceiling.dwg
DESCRIPTION: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWING SCALE: 1/4" = 1'-0"
PLOT SCALE: 1/4" = 1'-0"

SYMBOLS LEGEND

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

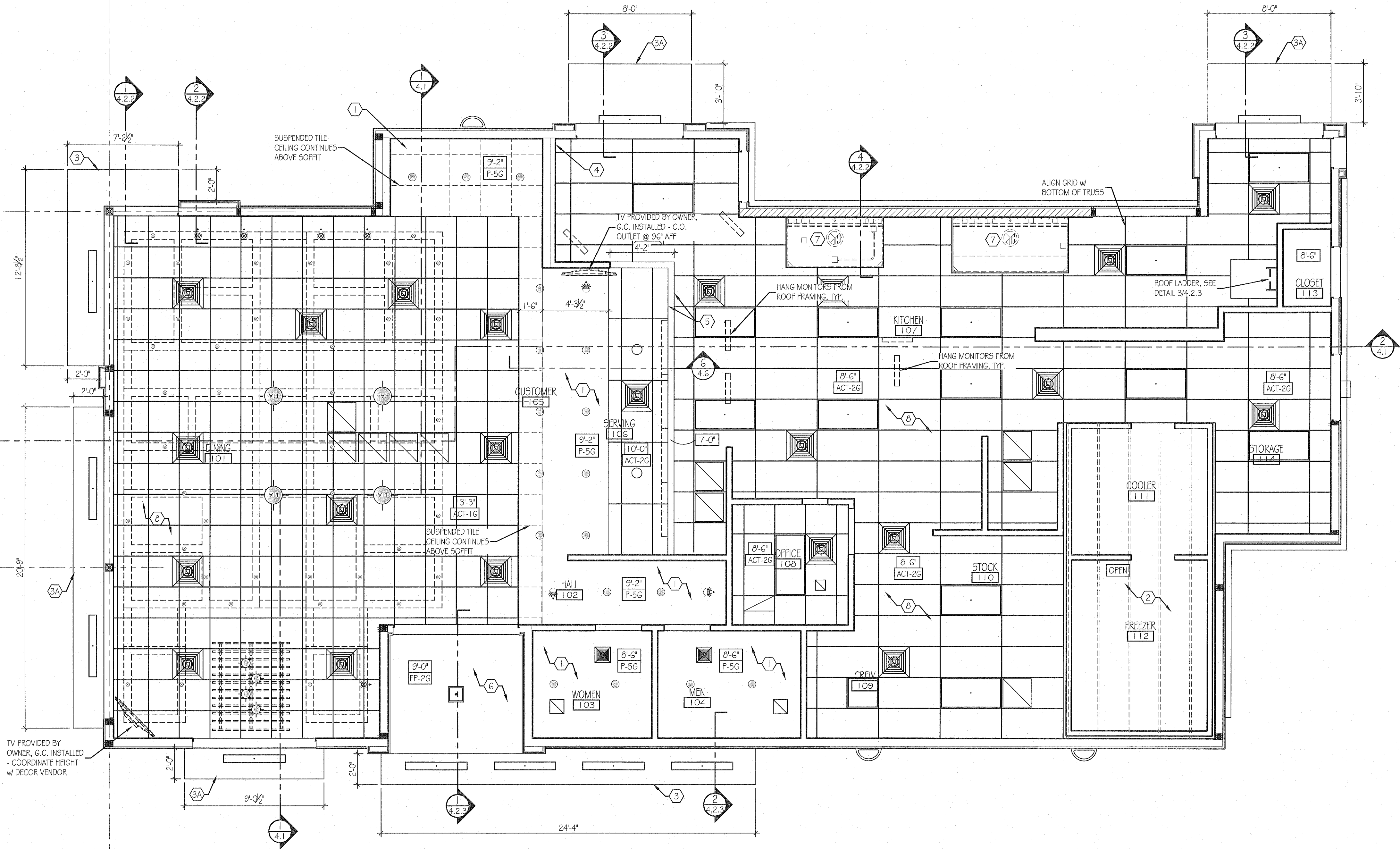
GENERAL NOTES:

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

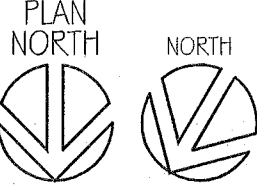
KEYED NOTES:

- GYPSUM BOARD CEILING/SOFFIT
- EXPOSED TRUSSES ABOVE WALK-IN BOX, REFER TO SUPPLIER DRAWINGS FOR INTERIOR LIGHT FIXTURES
- PREFABRICATED METAL CANOPY
- PREFABRICATED METAL CANOPY OR AWNING
- STAINLESS STEEL SERVICE CHASE
- MENU BOARD AND HEADER. REFERENCE DTL 6/4.6
- SOFFIT ABOVE ENTRY
-CEILING PAINT TO BE EP-2G.
(REFER TO EXTERIOR FINISH SCHEDULE)
- MECHANICAL EXHAUST HOOD ABOVE
- SUSPENDED ACOUSTICAL TILE CEILING.
REFER TO FINISH SCHEDULE.
- EXPOSED WOOD TRUSSES TO BE PAINTED, REFER TO DECOR SET AND FINISH SCHEDULE.
- EXPOSED PLYWOOD ROOF DECK SHEATHING, REFER TO DECOR SET.

SEE FINAL/APPROVED DECOR PLANS BY
DECOR VENDOR FOR FINAL FINISHES & DECOR



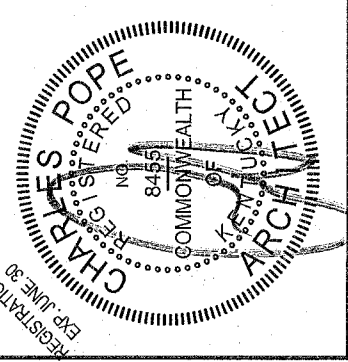
REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



REVISIONS:

REFLECTED CEILING PLAN

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

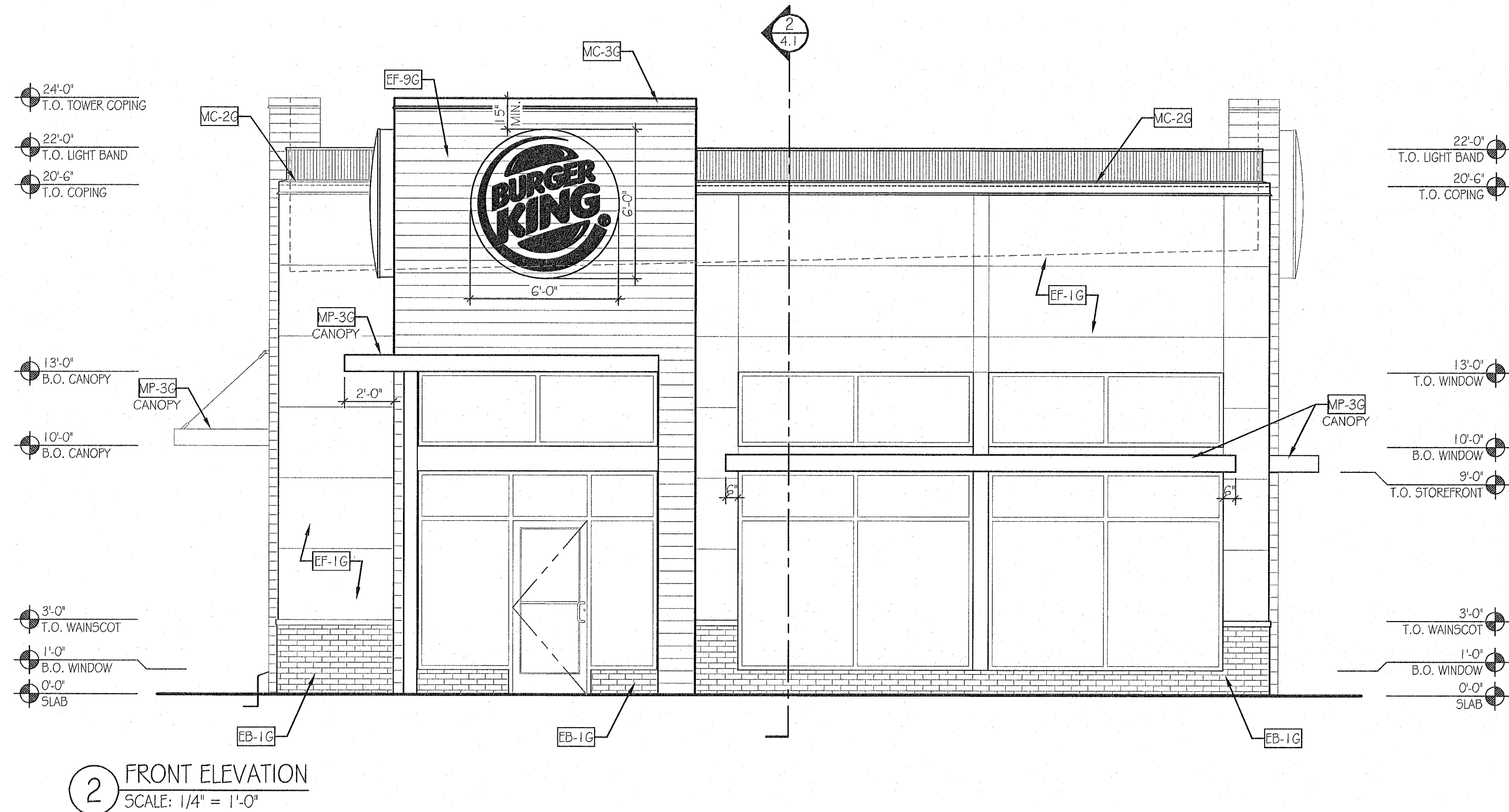
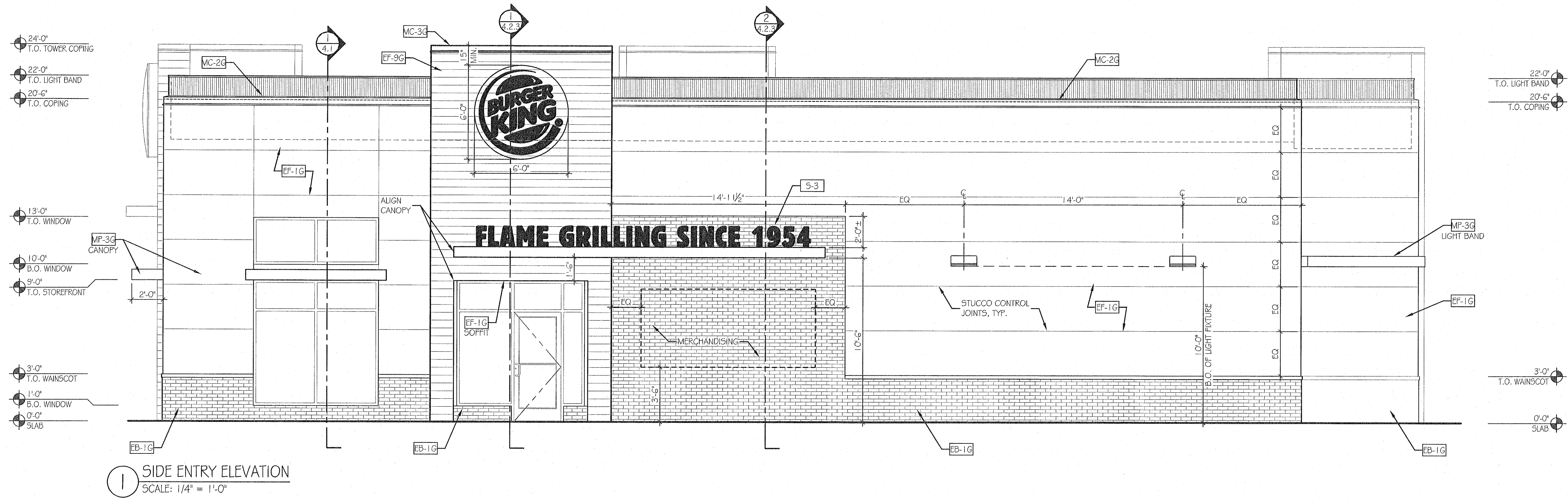


Charles William Pope
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7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11.02.21
JOB NO: 44387
DRAWN BY: RJC
SHEET NUMBER:

3.2

OF

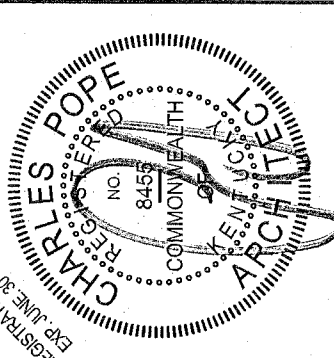


EXTERIOR ELEVATIONS

BURGER KING
STORE# Versailles Road
- Frankfort, KY 40601



NOV 04 2021



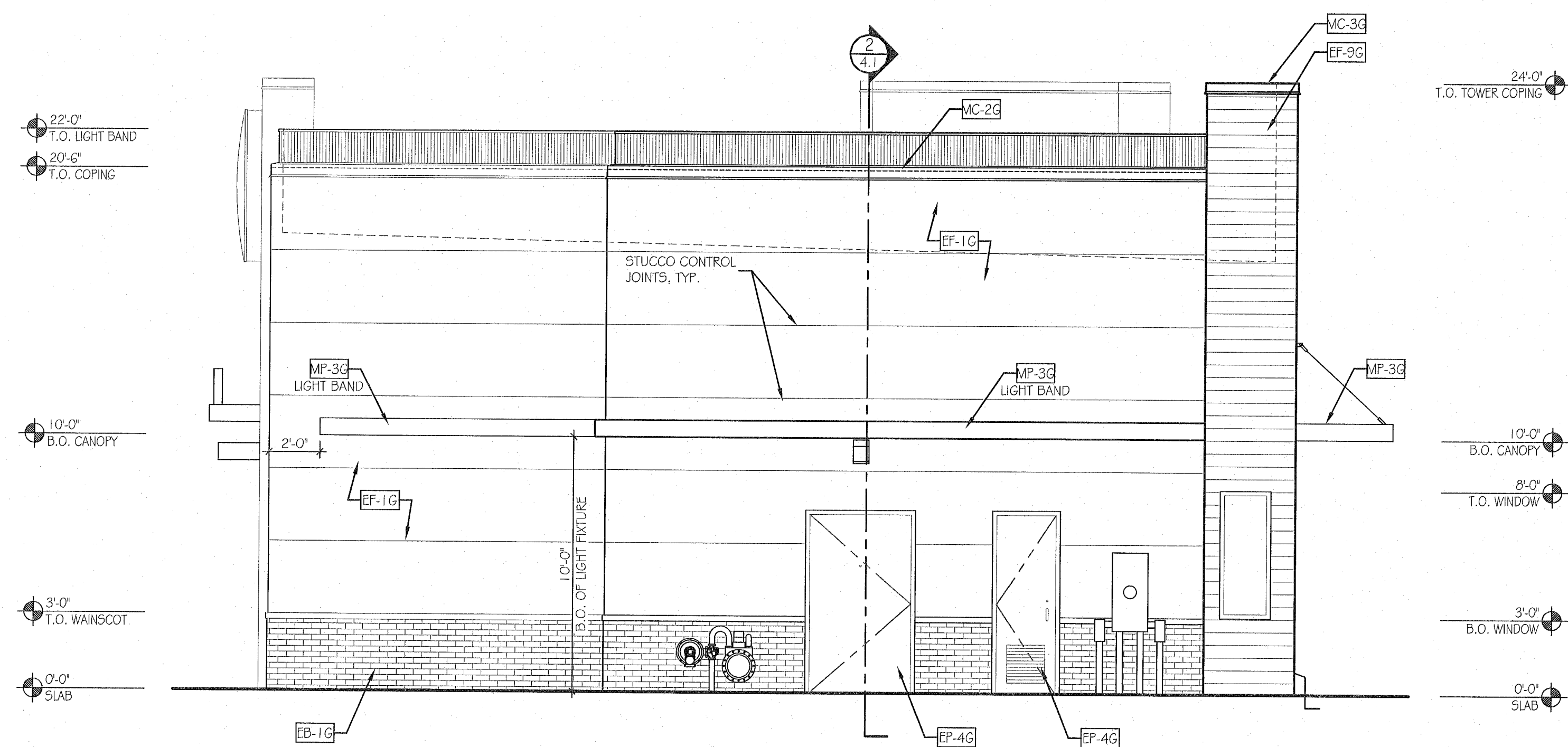
**Charles
William
Pope
& Associates**
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX. 78216

DATE: 11.03.21
JOB NO: 44387
DRAWN BY: *J R J*
SHEET NUMBER:

3.3.2

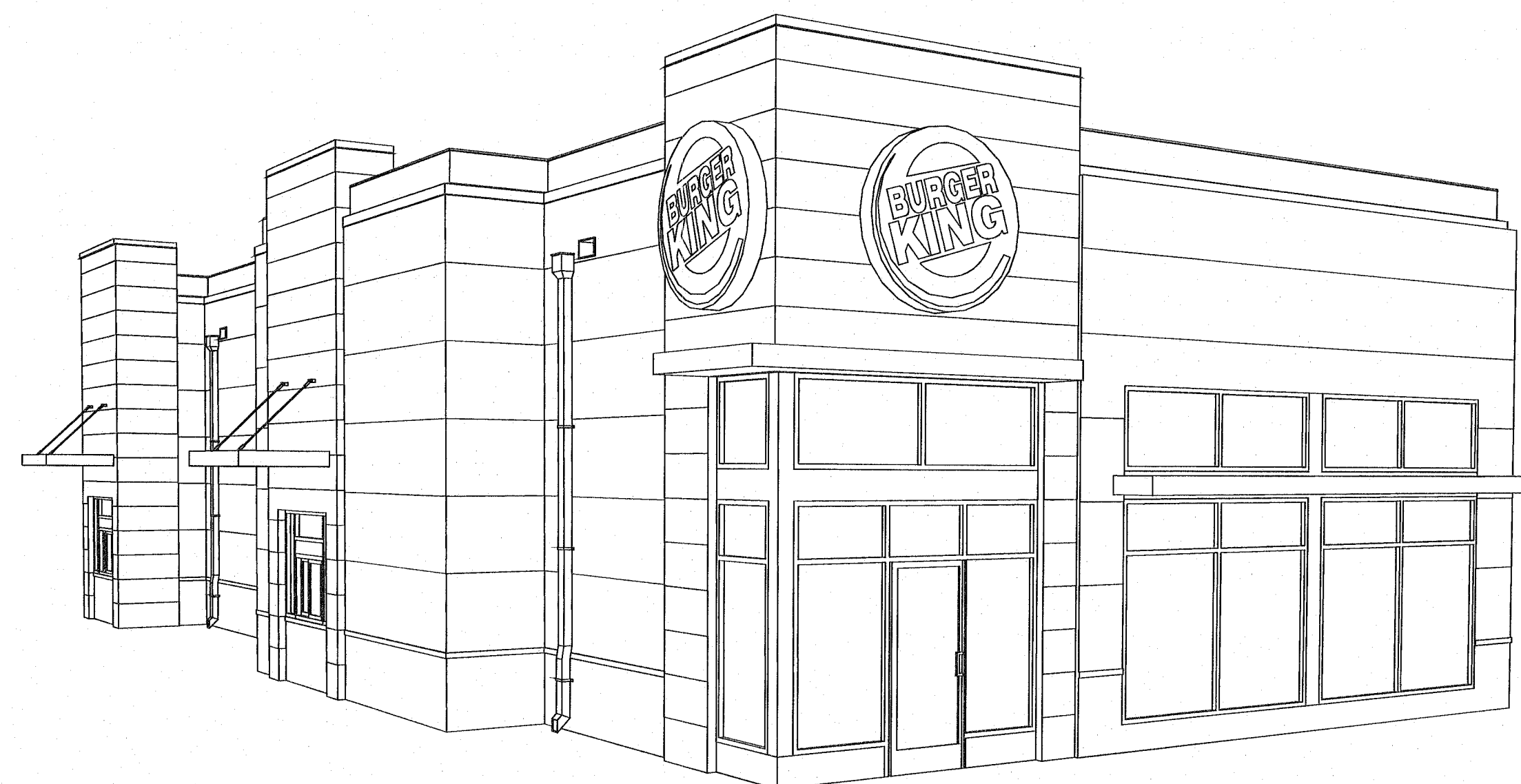
Architectural elevation drawing of a Burger King restaurant facade. The drawing shows a three-story building with a brick base, stucco upper floors, and a metal roof. Key features include a large 'BURGER KING' sign on the right, a window with a 'SLIDE FIXED' label, and various material callouts like MC-3G, EF-9G, and MP-3G. Dimensions for height and width are provided, along with notes for overflow scuppers and paint matching. A vertical section line A-A is indicated on the right side.

① DRIVE-THRU ELEVATION
SCALE: 1/4" = 1'-0"



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

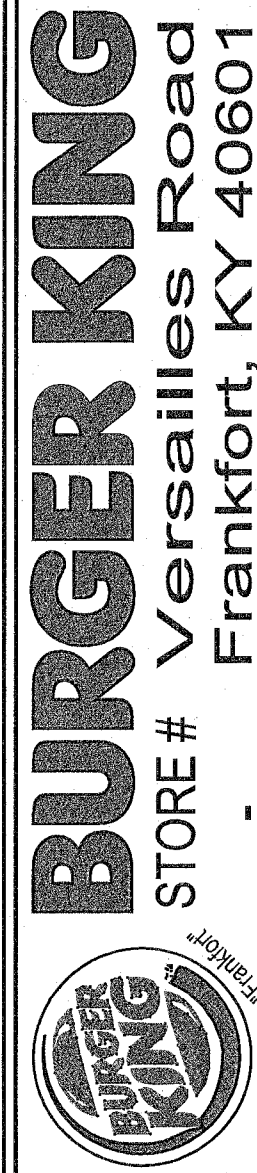
(EF-9G) - INSTALL PER MANUFACTURER'S SPECIFICATIONS. VERTICAL SEAMS SHALL BE MINIMIZED. ALL SPANS OF 10' OR MORE SHALL HAVE VERTICAL CAULKED SEAMS ALIGNED IN THE CENTER OF THE ARCHON



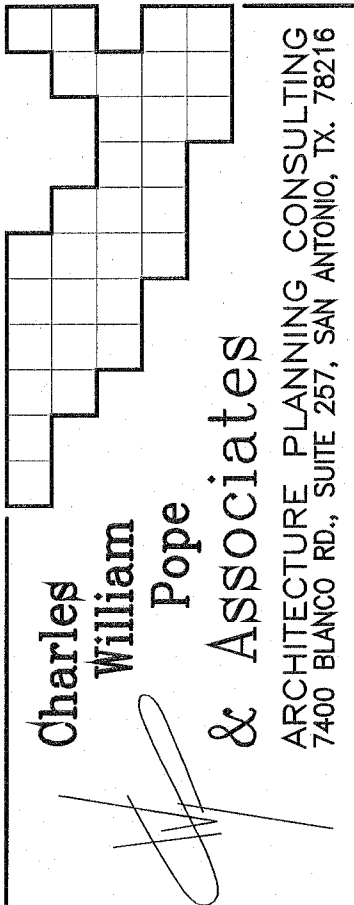
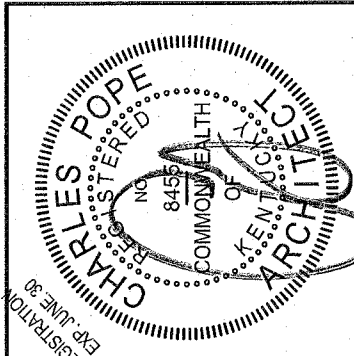
BURGER KING - 20/20 GARDEN GRILL EXTERIOR										
EXTERIOR MATERIALS & FINISH SCHEDULE (not all specs are used on every project)										
11/ 16/ 17										
CODE	MATERIAL	LOCATION	MANUFACTURER	DESCRIPTION			ADDITIONAL INFORMATION			
				PRODUCT	COLOR	DIMENSION				
EB-1G	EXTERIOR BRICK	GENERAL	EVOLUTION BRICK	MOD / QS TUMBLED (FULL BRICK)	OLDE HILLSBORO		CONTACT: GABE POWERS (502) 558-4612 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 NOTE: USE WITH EGR-3G			
			H.C. MUDDOX BRICK	THIN BRICK	BK WEST COAST BLEND		CONTACT: ED PEREZ (916) 917-7196 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. (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 BK@NICHIHA.COM INSTALL PER MANUFACTURER'S SPECIFICATIONS 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" STACKED BOND PATTERN	12" X 24"	CONTACT: JOY DETER AT EUROWEST (714) 309-9551 OR JOY KLEIN (813) 334-3302 jklein@transamerica.com NOTE: USE WITH EGR-4G			
ECT-18G	EXTERIOR CERAMIC TILE	INLINE RESTAURANTS ONLY	GRANITI GIANDRE / EUROWEST	ROVERE ANTICO LEGNI HIGH TECH	PAR 15334 "ROVERE" STACKED BOND PATTERN	6" X 36"	CONTACT: JOY DETER AT EUROWEST (714) 309-9551 OR JOY KLEIN (813) 334-3302 jklein@transamerica.com NOTE: USE WITH EGR-9G			
EF-1G	EXTERIOR FINISH - STUCCO, STO, FIBER CEMENT SIDING PANELS	GENERAL	STO OR APPROVED EQUAL	STO POWERWALL STUCCO SYSTEM TEXTURE: FINE SAND	COLOR TO MATCH EP-2G PPG "TANNERS TAUPE"		CONTACT: TIM SALERNO AT STO CORP (407) 466-5371			
			NICHIHA FIBER CEMENT	NICHIHA TUFFBLOCK	PREPAINTED TO MATCH EP-2G - PPG "TANNERS TAUPE" STACKED BOND PATTERN		CONTACT: NICHIHA CUSTOMER SERVICE (770) 805-9466 BK@NICHIHA.COM INSTALL PER MANUFACTURER'S SPECIFICATIONS 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 PPG "MONTEREY CLIFFS"		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 Diane.Clark@boral.com 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 BK@NICHIHA.COM 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. 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 matt.klinge@adfastcorp.com NOTE: USE WITH EF-9G
EP-2G	EXTERIOR PAINT						EXTERIOR GENERAL	PPG	PRIMER: 17-921 PAINT: 6-2045X1	"TANNERS TAUPE" Custom Formula
EP-4G	EXTERIOR PAINT	EXTERIOR WAINSCOT	PRIMER: 17-921 PAINT: 6-2045X1	"MONTEREY CLIFFS" 10YY 14/080	NOTE: FOR REMODELS ONLY NOT FOR USE ON ROOFS. SEE EP-6AG & EP-6BG NOTE: BY EXCEPTION FOR REMODELS ONLY					
EP-6G	EXTERIOR PAINT	LOGO SIGN CABINETS & BURGER KING CHANNEL LETTER CABINETS	PRIMER: 6-212 PAINT: 6-230	"BURGER KING SILVER" Custom Formula						
EP-6AG	EXTERIOR PAINT	EXISTING MANSARD ROOFS, SHINGLES & BARREL TILE	PRIMER: 17-921 PAINT: 90-1110	"GRIMMY'S GREY" 00NN 20/000						
EP-6BG	EXTERIOR PAINT	EXISTING STANDING SEAM METAL ROOF	PRIMER: 90-712 PAINT: 90-1110	"MARCH WIND" Custom Formula						
EP-8BG	EXTERIOR PAINT	METAL COPING AT ARCHON TOWERS	PRIMER: 17-921 PAINT: 6-2045X1	"CEDAR" Custom Formula						
EXT-1G	EXTERIOR PAINT	POLES & POLE SIGN	PRIMER: 90-712 PAINT: 90-353	"BLACK"						
EXT-2G	EXTERIOR PAINT	SIGNS	PRIMER: 90-712 PAINT: 90-375	Tint to match PPG 1006-6 "DECONSTRUCTION"						
EP-2G	EXTERIOR PAINT	EXTERIOR GENERAL	SHERWIN-WILLIAMS	PRIMER: Loxon Concrete & Masonry A24W300 PAINT: Superpaint Ext Satin A89 Series Satin	"TAUPE TONE" SW 7633	CONTACT: GLENN REMLER, ARCHITECTURAL ACCOUNT EXECUTIVE phone: (954) 547-1217 email: Glenn.J.Remler@Sherwin.com				
EP-4G	EXTERIOR PAINT	EXTERIOR WAINSCOT		PRIMER: Loxon Concrete & Masonry A24W300 PAINT: Superpaint Ext Satin A89 Series Satin	"HOMESTEAD BROWN" SW 7515					
EP-6G	EXTERIOR PAINT	LOGO SIGN CABINETS & BURGER KING CHANNEL LETTER CABINETS		PRIMER: Kem Bond HS B50A28 PAINT: Silver Brite B59S11	FACTORY FINISH SILVER	NOTE: FOR REMODELS ONLY NOT FOR USE ON ROOFS.				
EP-6AG	EXTERIOR PAINT	EXISTING MANSARD ROOFS, SHINGLES & BARREL TILE		PRIMER: Pro Industrial Pro-Cryl Primer B66-310 PAINT: Pro Industrial High Performance Acrylic B66-660 Eggshell	"WESTCHESTER GRAY" SW 2849	NOTE: BY EXCEPTION FOR REMODELS ONLY				
EP-6BG	EXTERIOR PAINT	EXISTING STANDING SEAM METAL ROOF		PRIMER: Pro Industrial Pro-Cryl Primer B66-310 PAINT: Pro Industrial High Performance Acrylic B66-660 Eggshell	"MARCH WIND" Custom Formula	NOTE: BY EXCEPTION FOR REMODELS ONLY				
EP-8G	EXTERIOR PAINT	METAL COPING AT ARCHON TOWERS		PRIMER: Pro Industrial Pro-Cryl Primer B66-310 PAINT: Pro Industrial High Performance Acrylic B66-650 Semi-Gloss	"CEDAR" Custom Formula					
EXT-1G	EXTERIOR PAINT	POLES & POLE SIGN		PRIMER: Pro Industrial Pro-Cryl Primer B66-310 PAINT: Pro Industrial High Performance Acrylic B66-600 Gloss	FACTORY FINISH BLACK					
EXT-2G	EXTERIOR PAINT	SIGNS		PRIMER: Pro Industrial Pro-Cryl Primer B66-310 PAINT: Pro Industrial High Performance Acrylic B66-600 Gloss	FACTORY FINISH TO MATCH 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 *** FOR SETTING MATERIALS USE COMPLETE CONTACT RAPID SET *** 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 *** CONTRACTOR TO ALLOW 1/16" MAX FOR GROUT JOINT *** FOR SETTING MATERIALS USE COMPLETE CONTACT RAPID SET *** SEAL GROUT WITH AQUAMIX SEALERS CHOICE GOLD 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 PPG "TANNERS TAUPE"					
MC-3G	METAL COPING	TOP OF ARCHON		PERMA SNAP PLUS	TO BE PAINTED TO MATCH EP-8G PPG "CEDAR"					
MP-1G		PARAPET LIGHT BAND	LEKTRON *SEE APPROVED SIGN SUPPLIERS	LED LIGHT BAND		*SEE PLANS	PRODUCT INFORMATION: KEVIN RUBOTTOM AT LEKTRON (800) 634-4059 OR (918) 622-4978 Email: KRubottom@lektroninc.com			
MP-3G	METAL CANOPY	ABOVE DOORS AND WINDOWS	*SEE APPROVED CANOPY SUPPLIERS	CUSTOM METAL CANOPY	COLOR: CLEAR ANODIZED	*SEE PLANS				
MP-4G	METAL AWNING / SSM ROOFING	ABOVE WINDOWS / MANSARD ROOFING	FIRESTONE METAL PRODUCTS	STANDING SEAM METAL ROOF UC-4 PROFILE	SILVER METALLIC SR	*SEE PLANS	CONTACT: YUSUKE KOREEDA (615) 945-9991 Email: koreedayusuke@firestonebp.com			
			BERRIDGE ROOFING METAL PRODUCTS	STANDING SEAM METAL ROOF CEE-LOCK	PREMIUM METALLIC - ZINC COTE	*SEE PLANS	CONTACT: (210) 650-7047			

REVISIONS:

EXTERIOR MATERIALS LEGEND

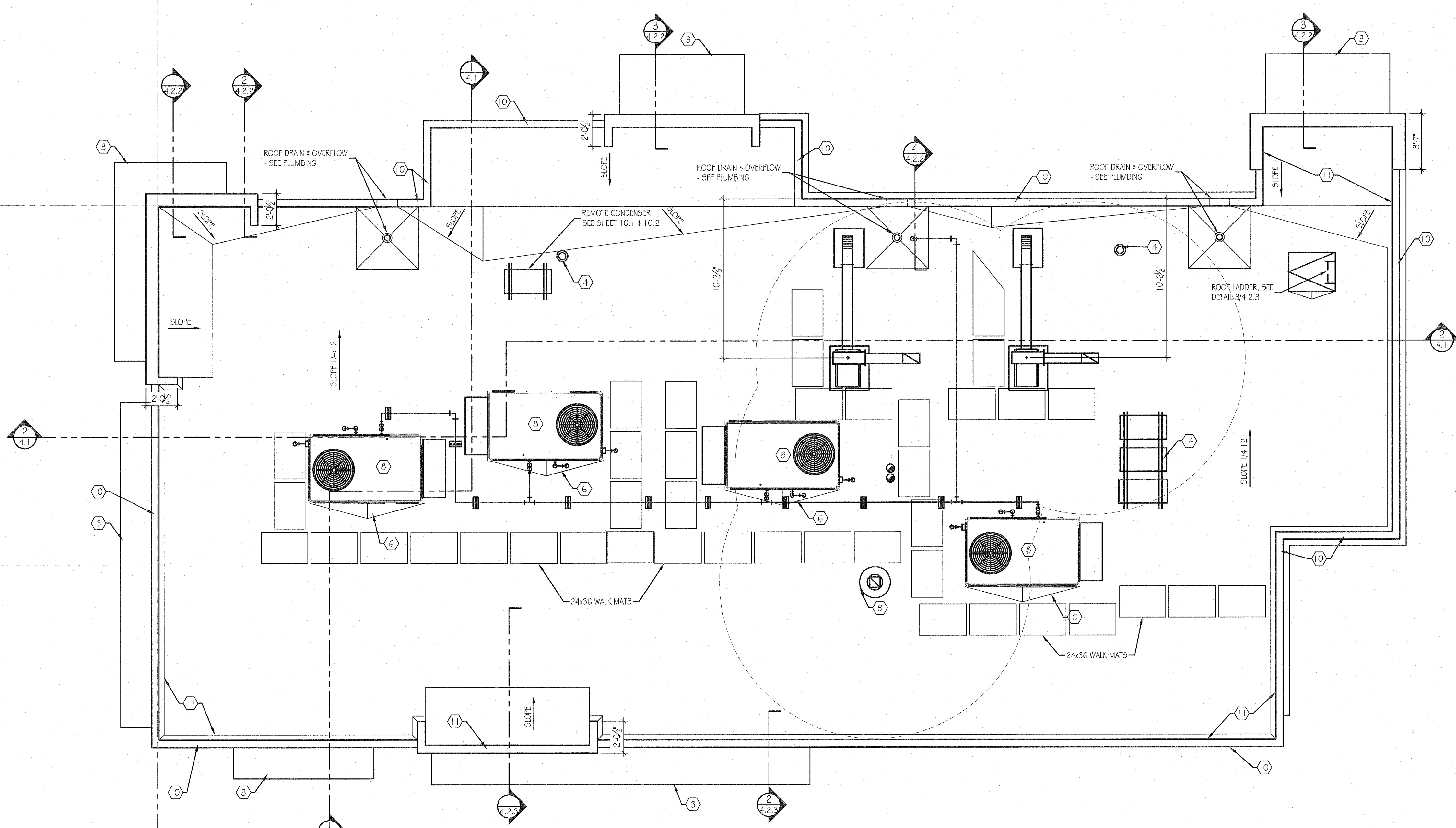


NOV 04 2021



DATE: 11.03.21
JOB NO: 44387
DRAWN BY: *Charles W. Pope*
SHEET NUMBER: 3.3.3
OF

FILE NAME: BKK-03_5 Roof.dwg



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

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 POORLY WATER CONDITIONS ATTRIBUTABLE TO IMPROPER DRAINAGE.
2. ROOF SYSTEM 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. H.V.C. GUARANTEE LINE TO TERMINATE AT DRAIN ROOF 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 18" CLEAR FROM EACH OTHER FOR ROOF FLASHING PURPOSES. ALL EQUIPMENT SHALL HAVE A MINIMUM OF 18" 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 ON ROOF SURFACE.
7. PONDING WATER 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 PLYS 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 MANUFACTURER'S BRAND. ALL ASPHALTS SHALL BE AMERICAN MANUFACTURED PRODUCTS.

 KEYED NOTES:

1. ROOF SYSTEM, SEE SHEET 4.0
2. ROOF ACCESS LADDER, REFERENCE DETAIL 3/4.2.3.
3. PREFABRICATED METAL AWNING OR CANOPY.
4. VENT THROUGH ROOF - PROVIDE PREFABRICATED DURO-LAST VENT FLASHING FOR ALL VENTS AND PIPE PENETRATIONS. REFERENCE DETAIL 17/4.3.
5. INSTALL MODIFIED BITUMEN SACRIFICE SHEET AS SPECIFIED AT KITCHEN EXHAUST.
6. ROOF CRICKET WITH SLOPE TO MATCH ROOF, REFER TO DETAIL 4/4.3. NOT USED.
7. 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 1/6/4.
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 14/4.3.

GENERAL NOTES:

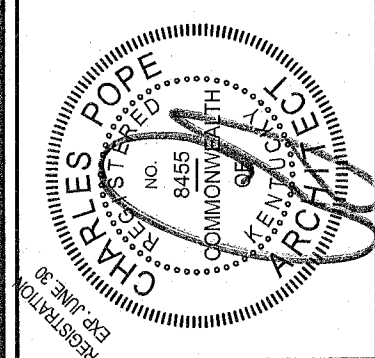
- A. THE ROOF STRUCTURE SHALL NOT BE USED FOR STOCKPIILING OF EQUIPMENT OR MATERIALS UNLESS APPROVED BY THE ARCHITECT, STRUCTURAL ENGINEER AND THE JOIST MANUFACTURER.
- B. THE ROOFING SYSTEM SHALL BE AS PER DRAWINGS AND PER MANUFACTURER'S SPECIFICATIONS.
- C. COORDINATE ROOF ELEVATIONS WITH STRUCTURAL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

REVISIONS:

ROOF PLAN

BURGER KING
STORE# Versailles Road
- Frankfort, KY 40601

NOV 15 2021



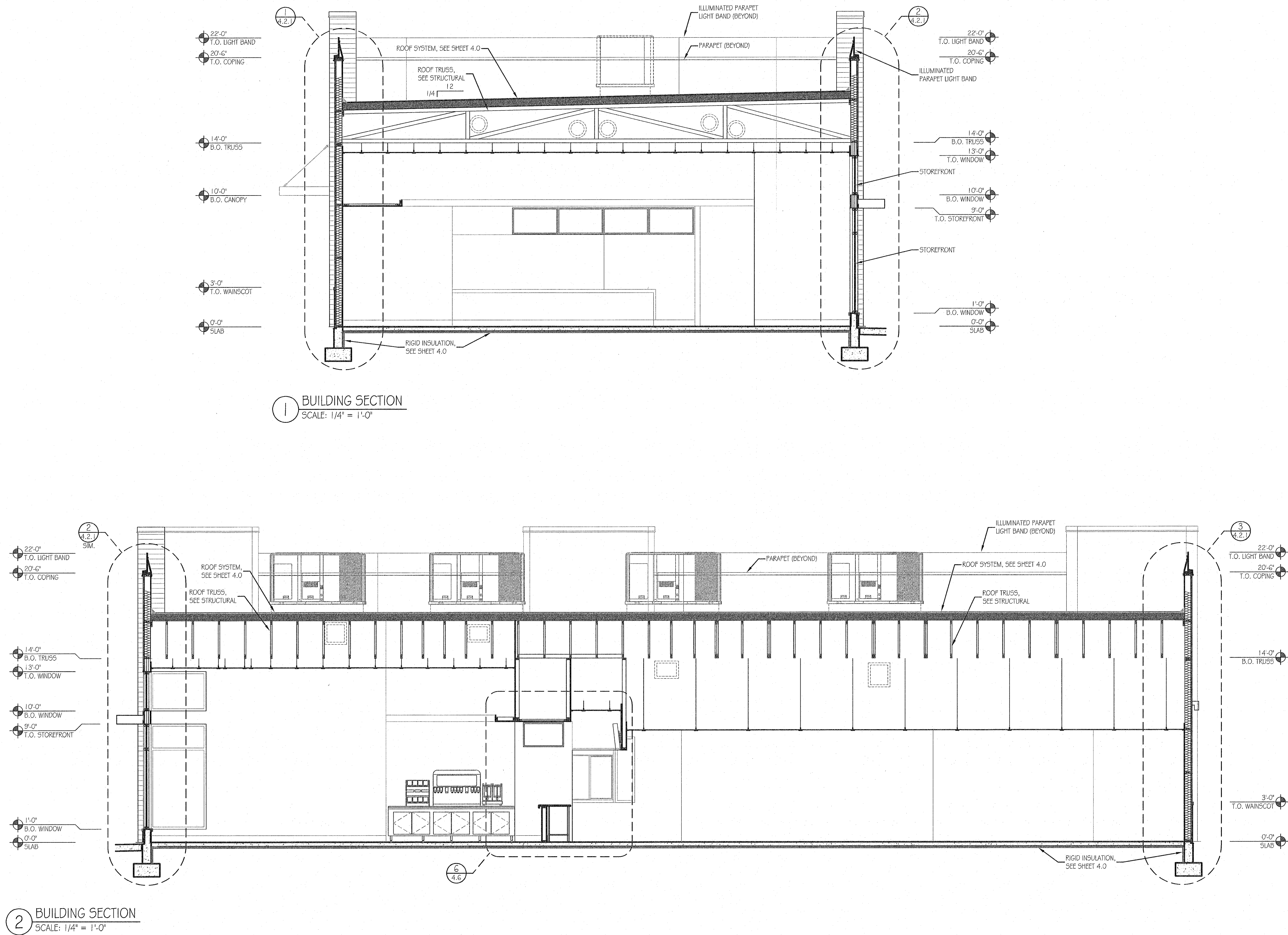
Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX. 78216

DATE: 11.15.21
JOB NO: 44387
DRAWN BY: *JRK*
SHEET NUMBER:

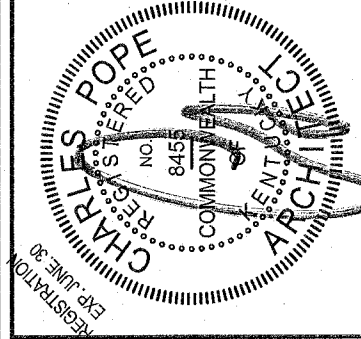
3.5

OF

FILE NAME: BKK-04_1 Building Sections.dwg
DESCRIPTION: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWING SCALE: 3/8" = 1'-0"
PLOT SCALE: 1:1



NOV 18 2021



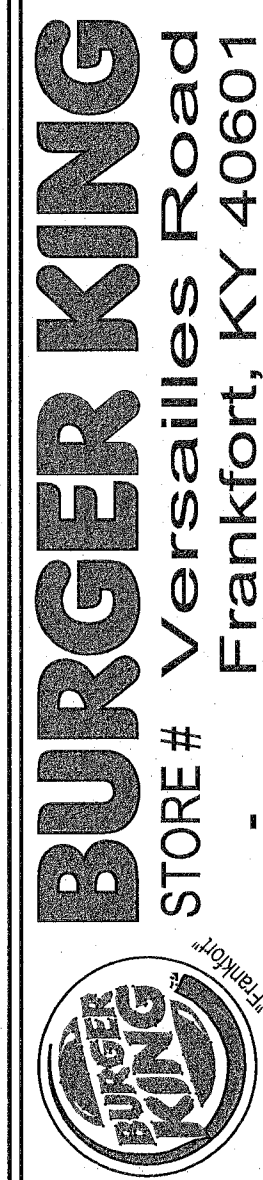
Charles Pope
William Pope
& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11.17.21
JOB NO: 44387
DRAWN BY: J.R.K.
SHEET NUMBER:

4.1

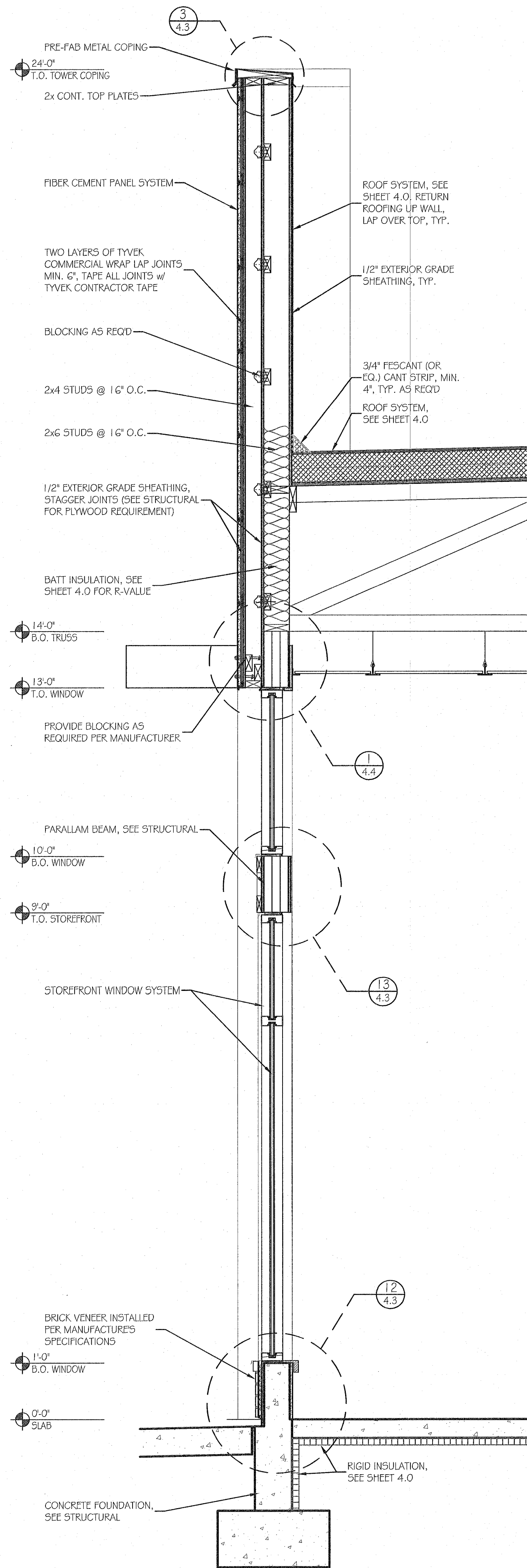
OF

BUILDING SECTIONS

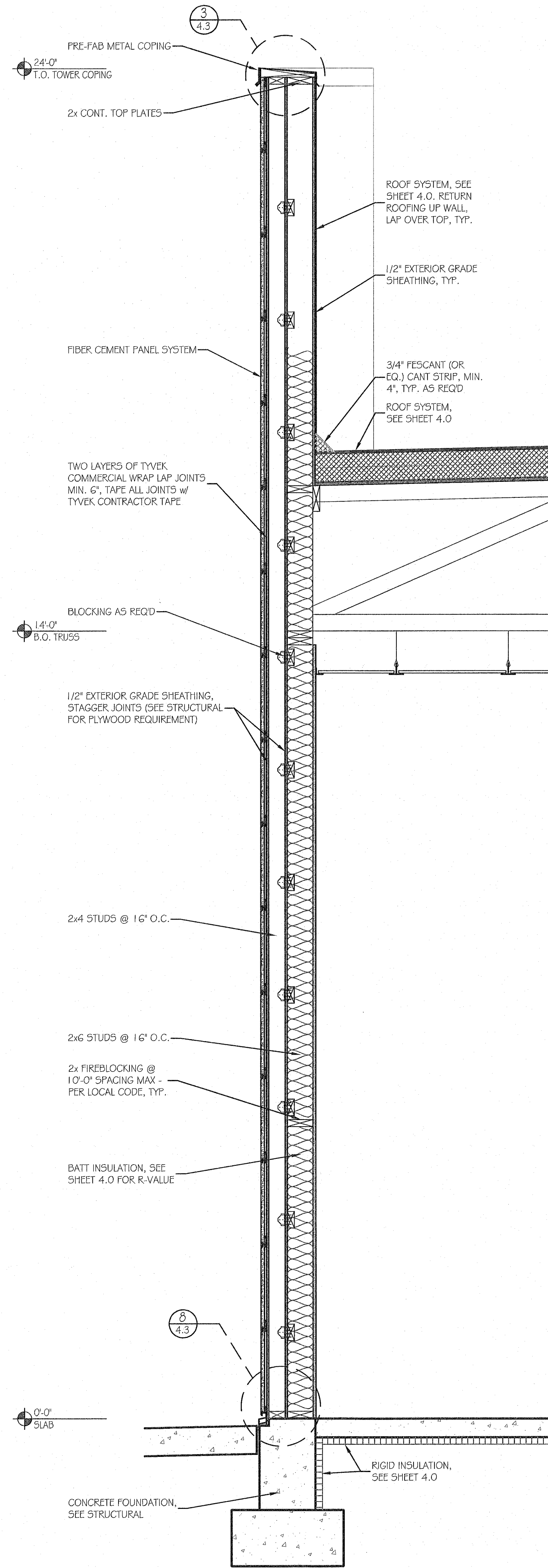


REVISIONS:

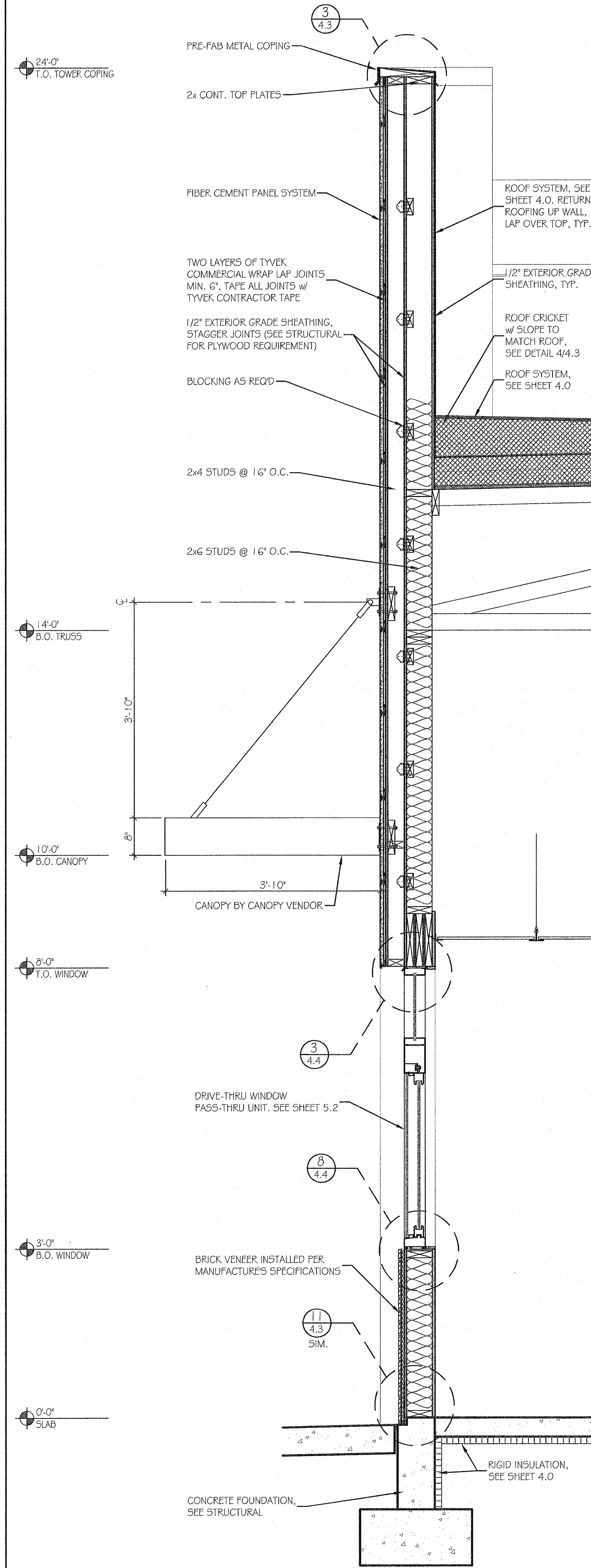
FILE NAME: BK-04_2 Wall Sections.dwg
DRAWN BY: BURGER KING - Versailles Road, Frankfort, KY 40601
PLOT SCALE: 1/1"



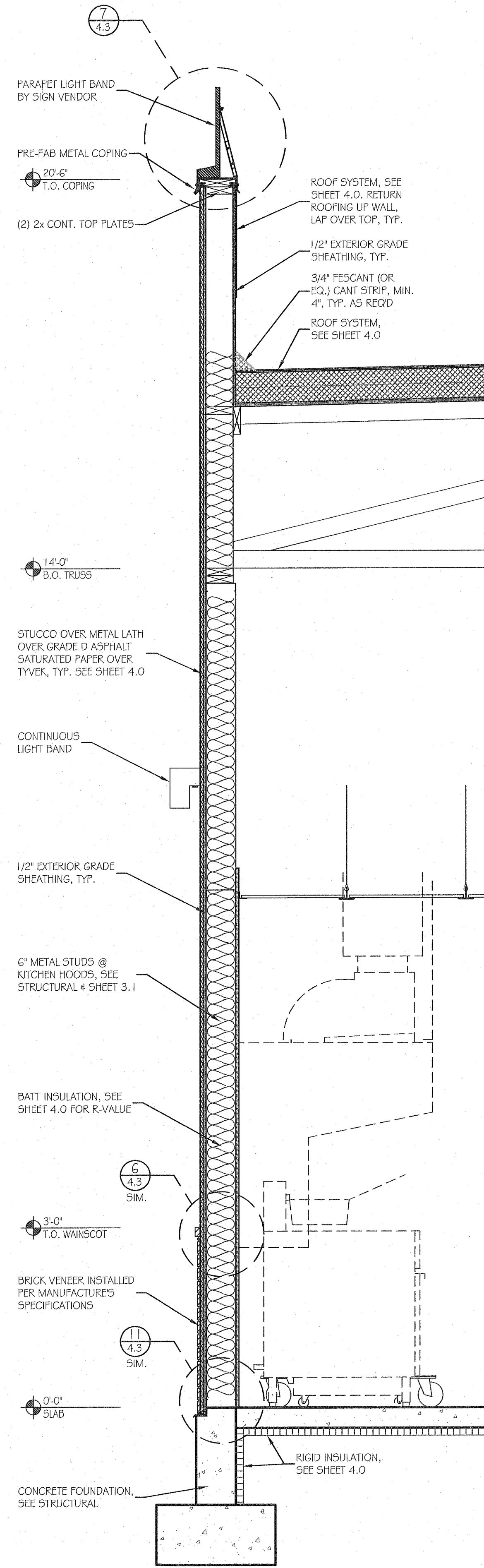
1 WALL SECTION
SCALE: 3/4" = 1'-0"



2 WALL SECTION
SCALE: 3/4" = 1'-0"



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



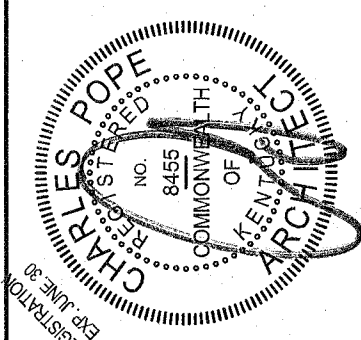
4 WALL SECTION
SCALE: 3/4" = 1'-0"

REVISIONS:

WALL SECTIONS

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

NOV 18 2021



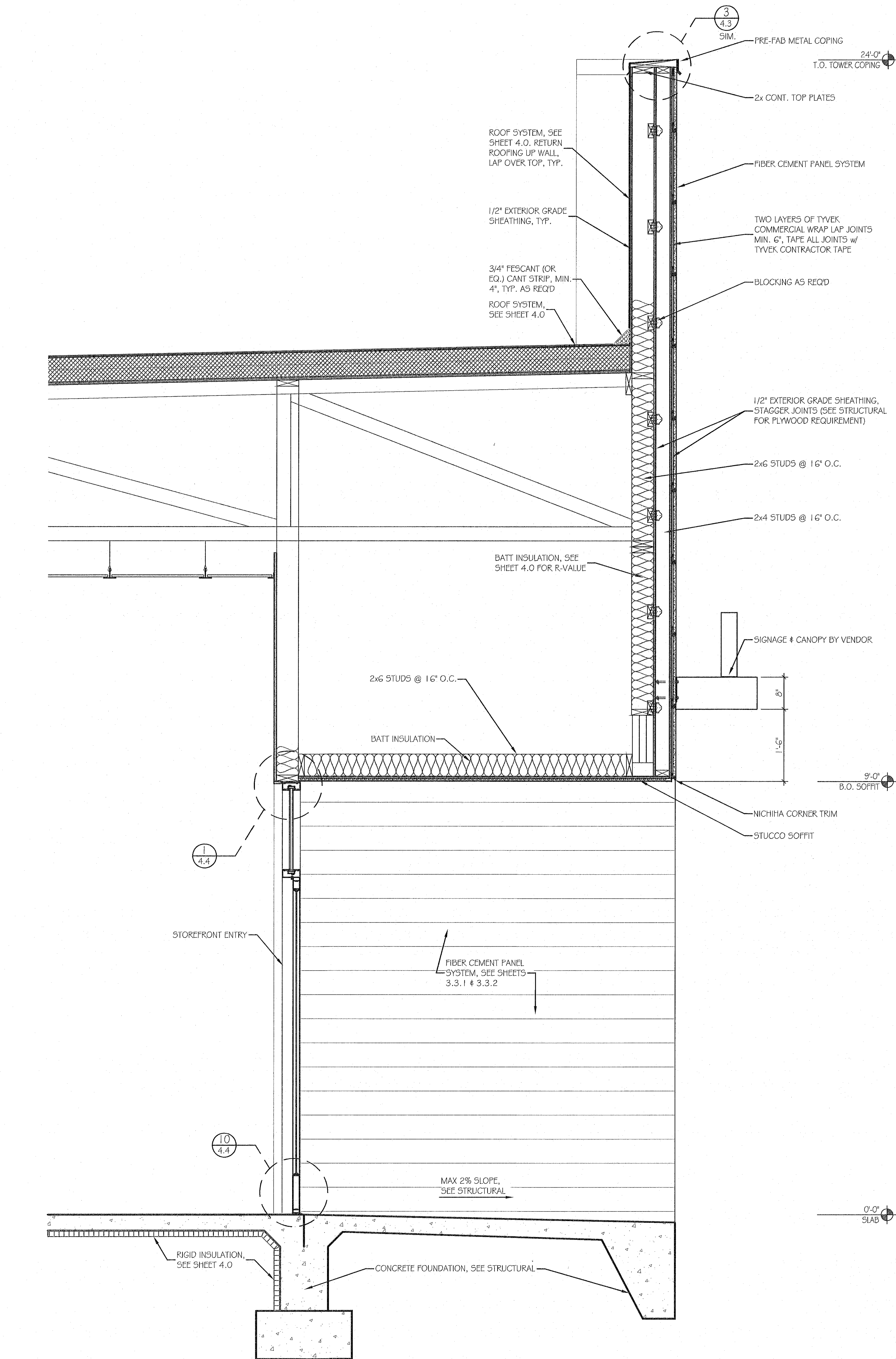
Charles Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 201, SAN ANTONIO, TX 78216

DATE: 11.17.21
JOB NO: 44387
DRAWN BY: *CRK*
SHEET NUMBER:

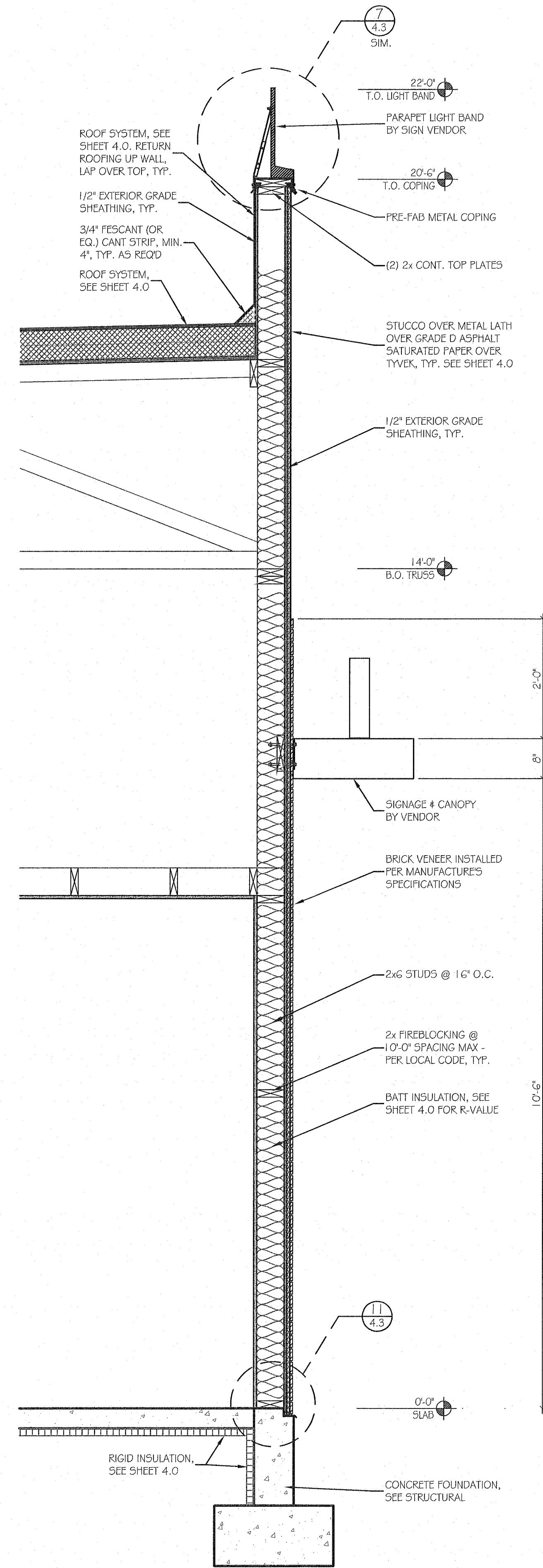
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OF

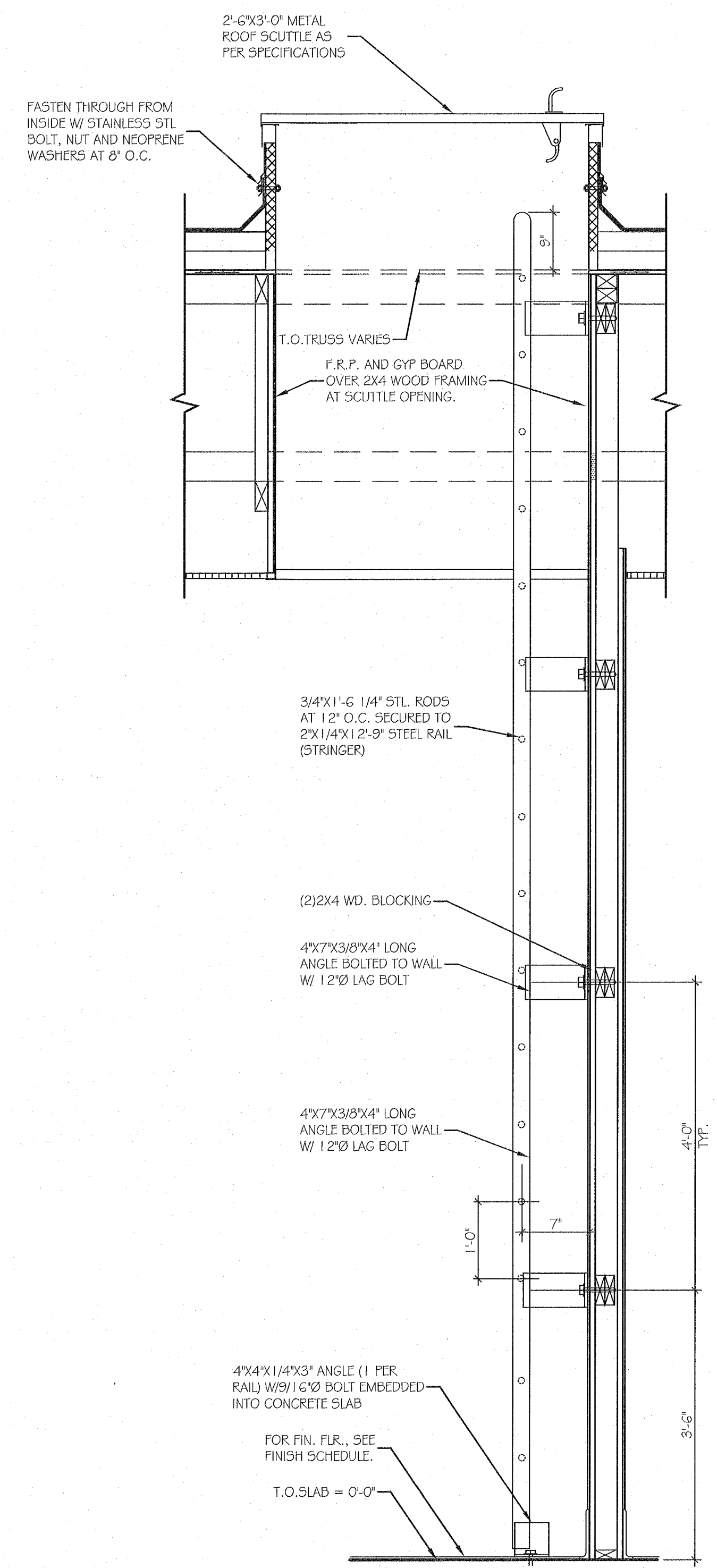
FILE NAME: 11-17-21 Wall Sections.dwg
DESCRIPTION: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWING SCALE: 3/4" = 1'-0"
PLOT SCALE: 1/4" = 1'-0"



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



2 WALL SECTION
SCALE: 3/4" = 1'-0"



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

REVISIONS:

WALL SECTIONS

BURGER KING

STORE # Versailles Road
Frankfort, KY 40601

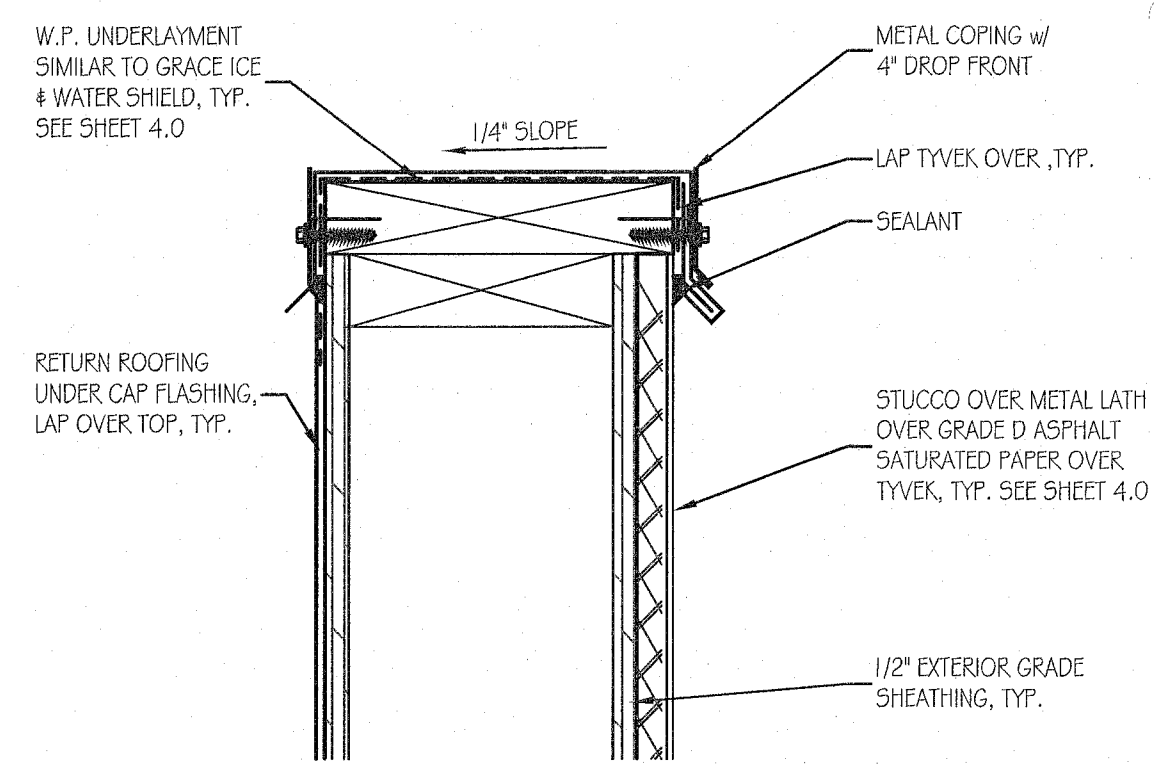
NOV 18 2021

CHARLES W. POPE
ARCHITECT

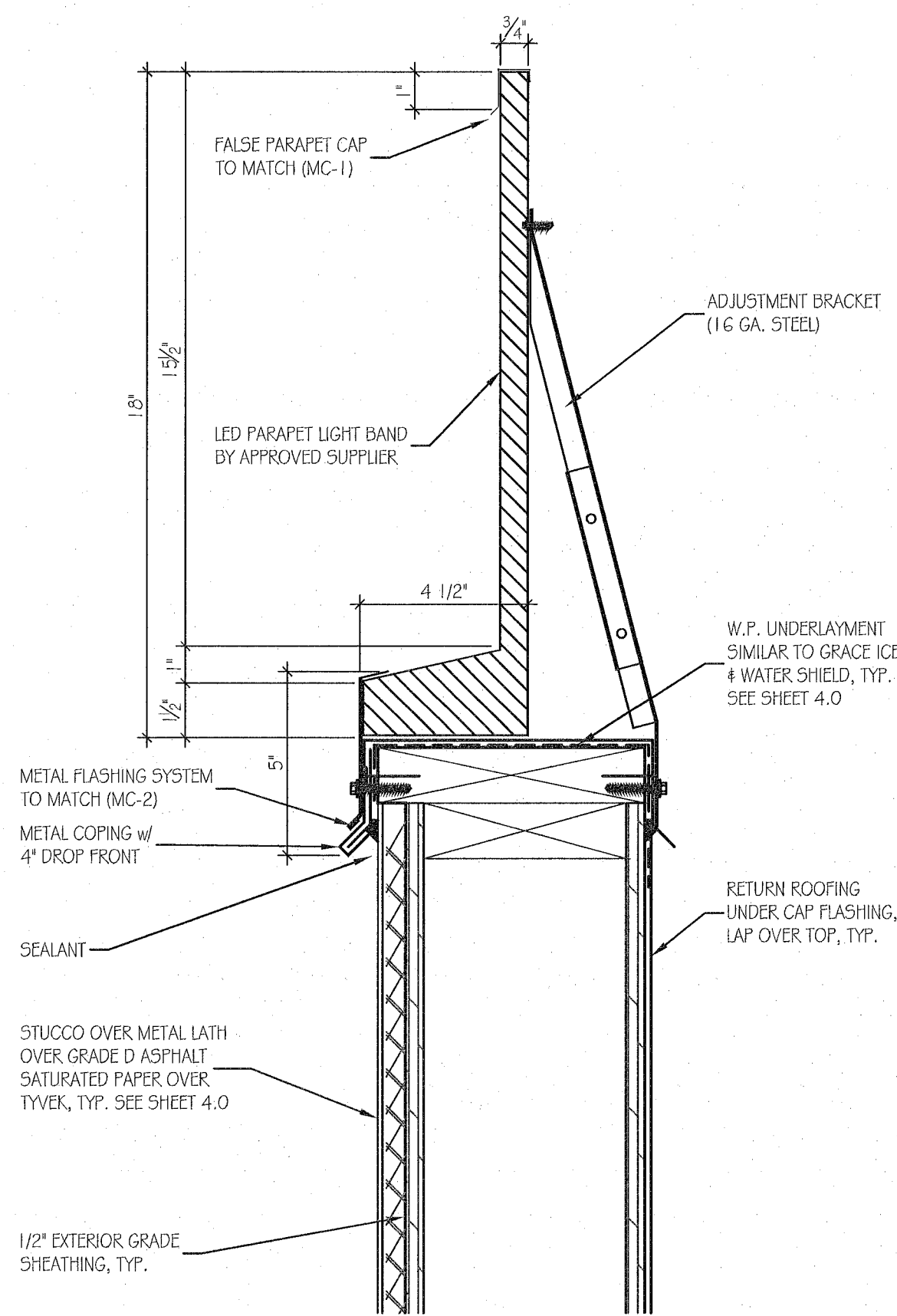
COMMON PRACTICE
REGISTERED PROFESSIONAL
STATE OF KENTUCKY
NO. 111721

Charles William Pope
& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

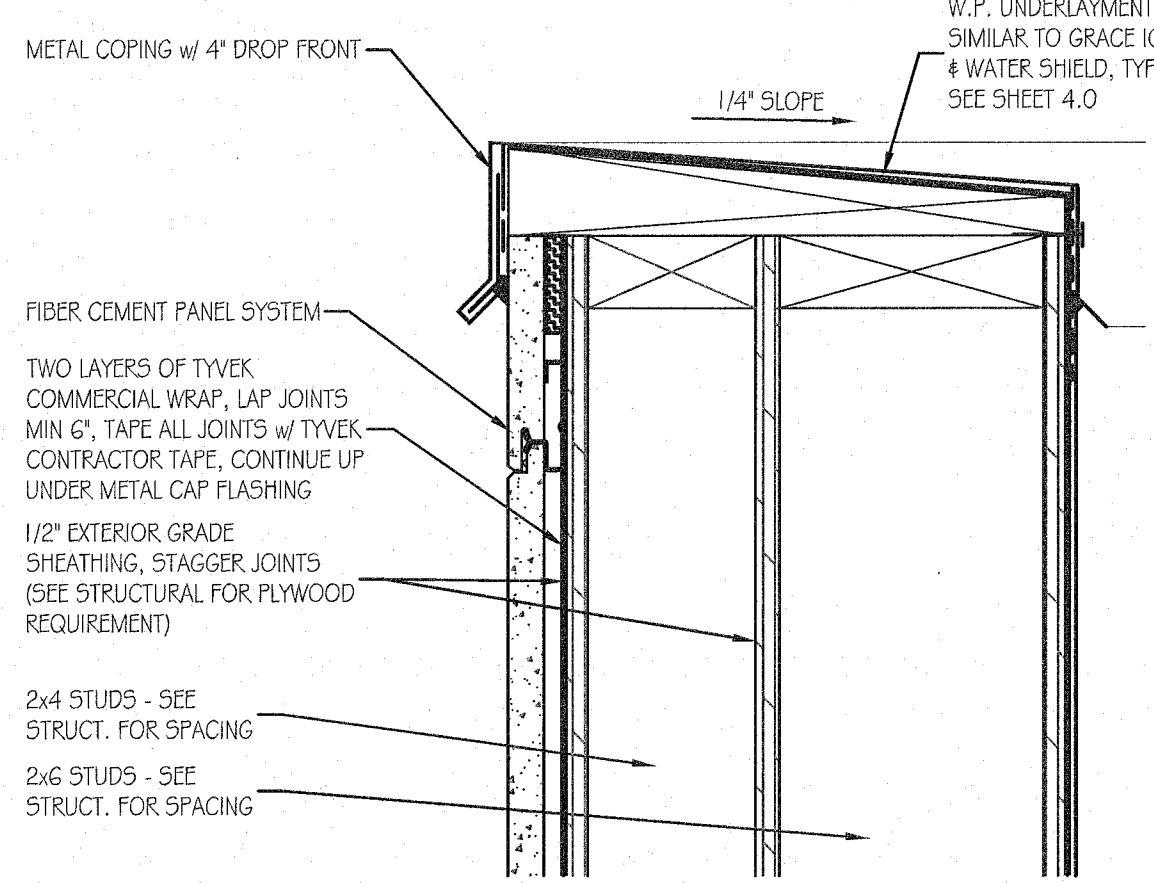
DATE: 11.17.21
JOB NO: 44387
DRAWN BY: *CRK*
SHEET NUMBER:
4.2.3
OF



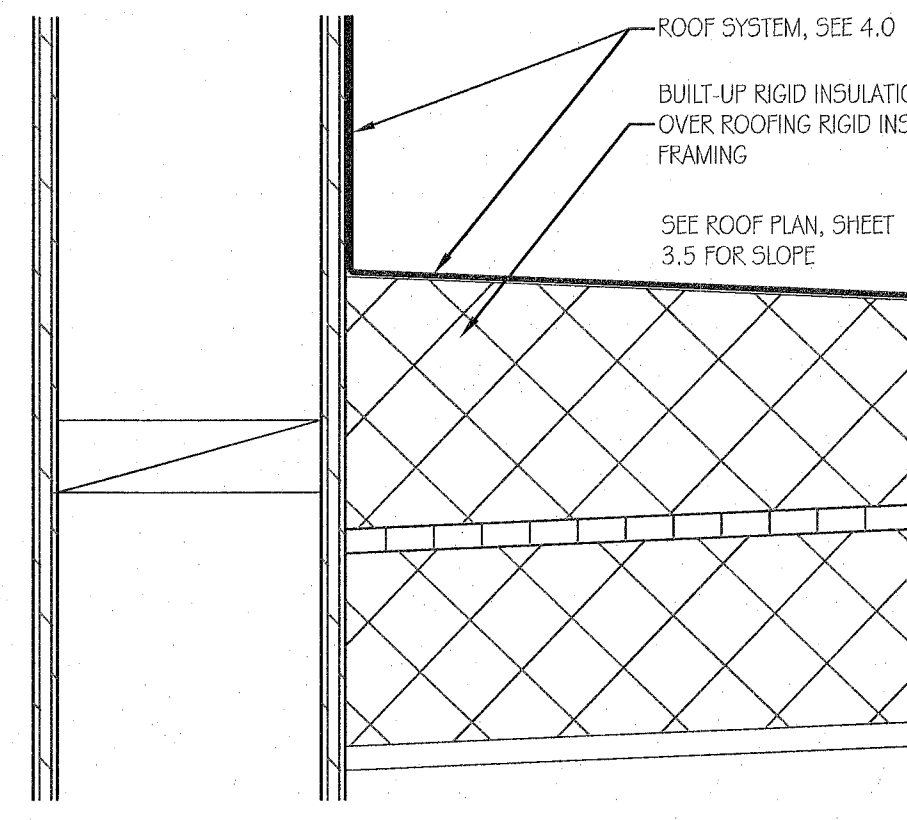
1 PARAPET DETAIL - TYP.
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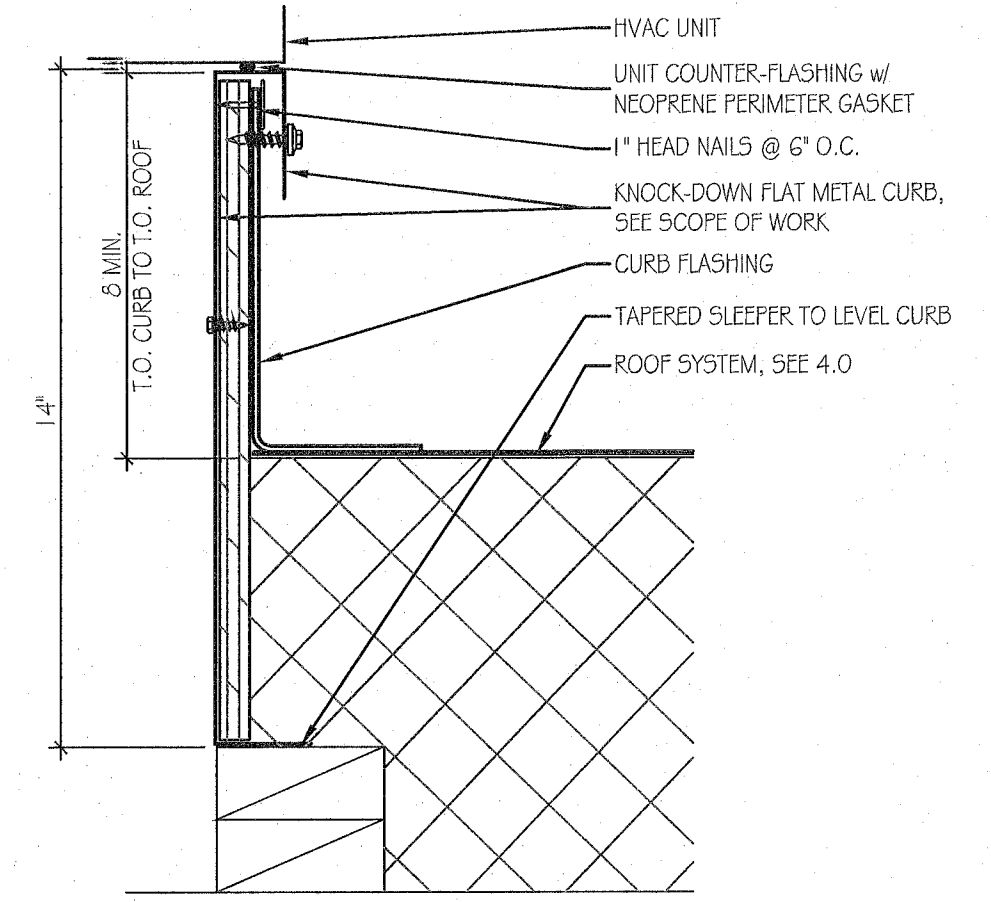
7 PARAPET LIGHT BAND DETAIL
SCALE: 3" = 1'-0"



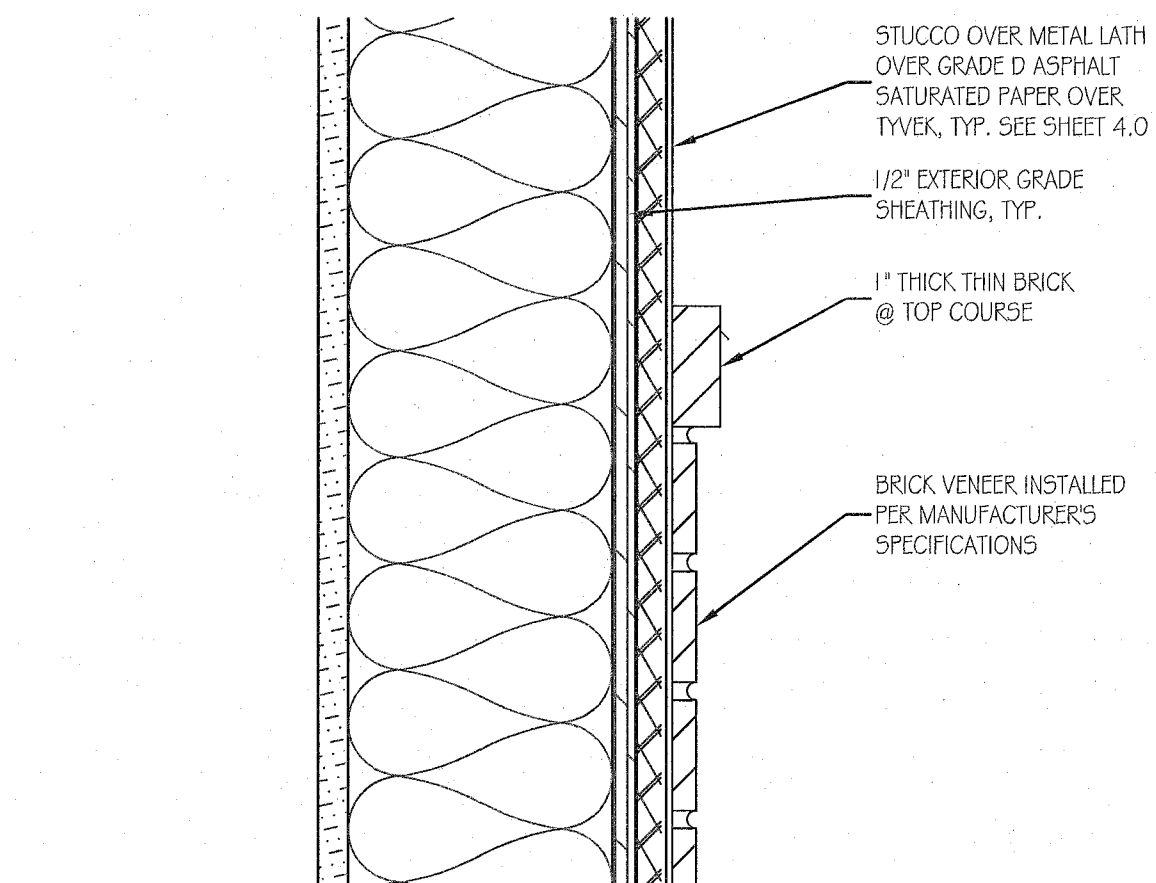
3 PARAPET DETAIL @ TOWERS
SCALE: 3" = 1'-0"



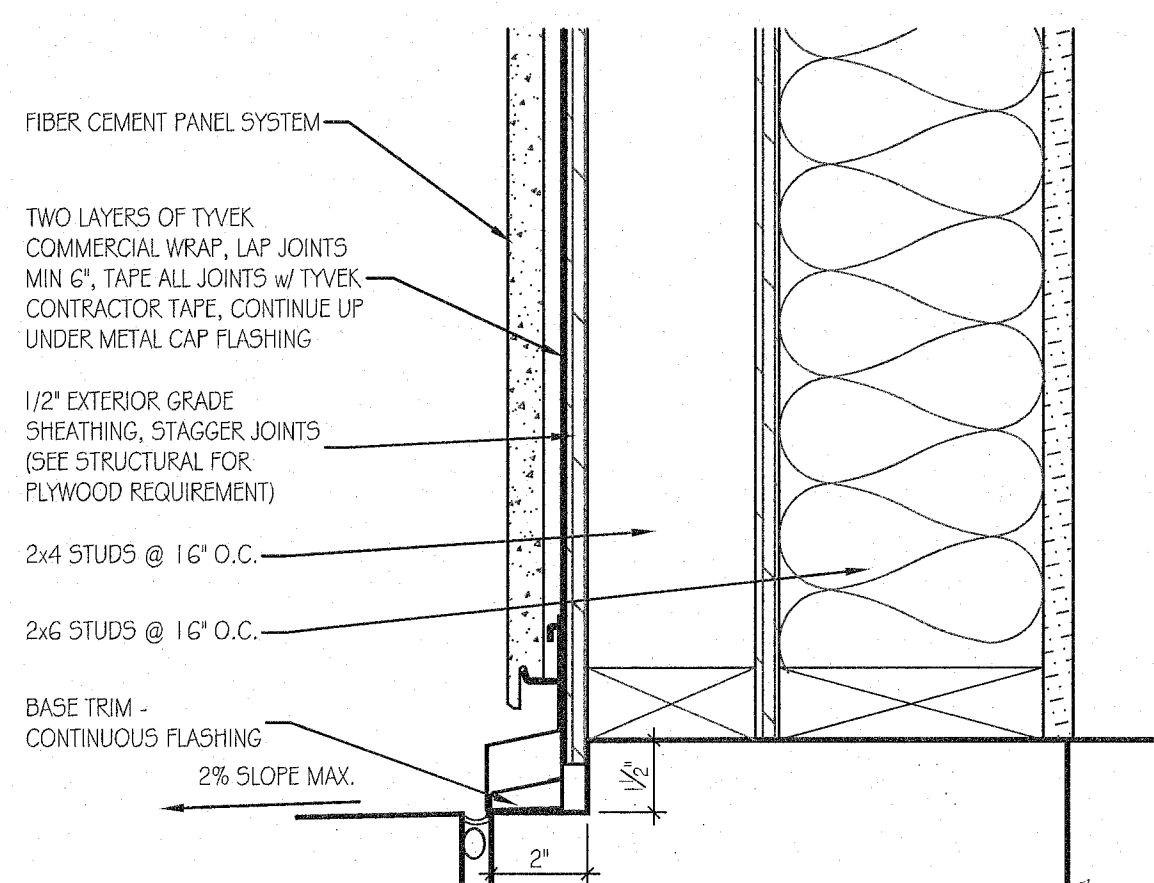
4 ROOF CRICKET DETAIL - TYP.
SCALE: 3" = 1'-0"



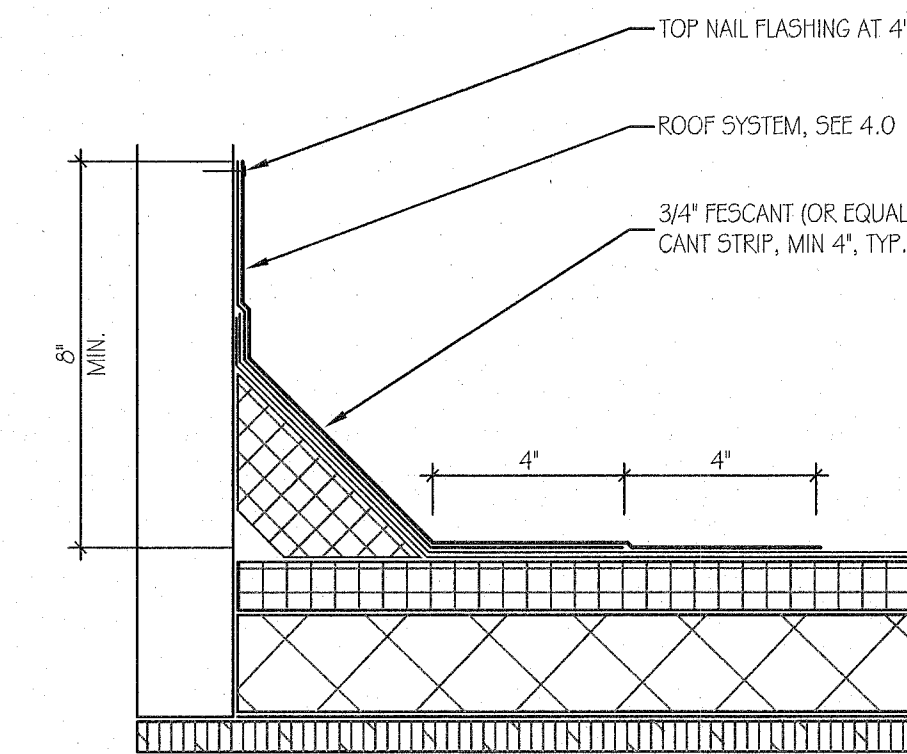
5 HVAC CURB
SCALE: 3" = 1'-0"



6 WAINSCOT SILL DETAIL
SCALE: 3" = 1'-0"

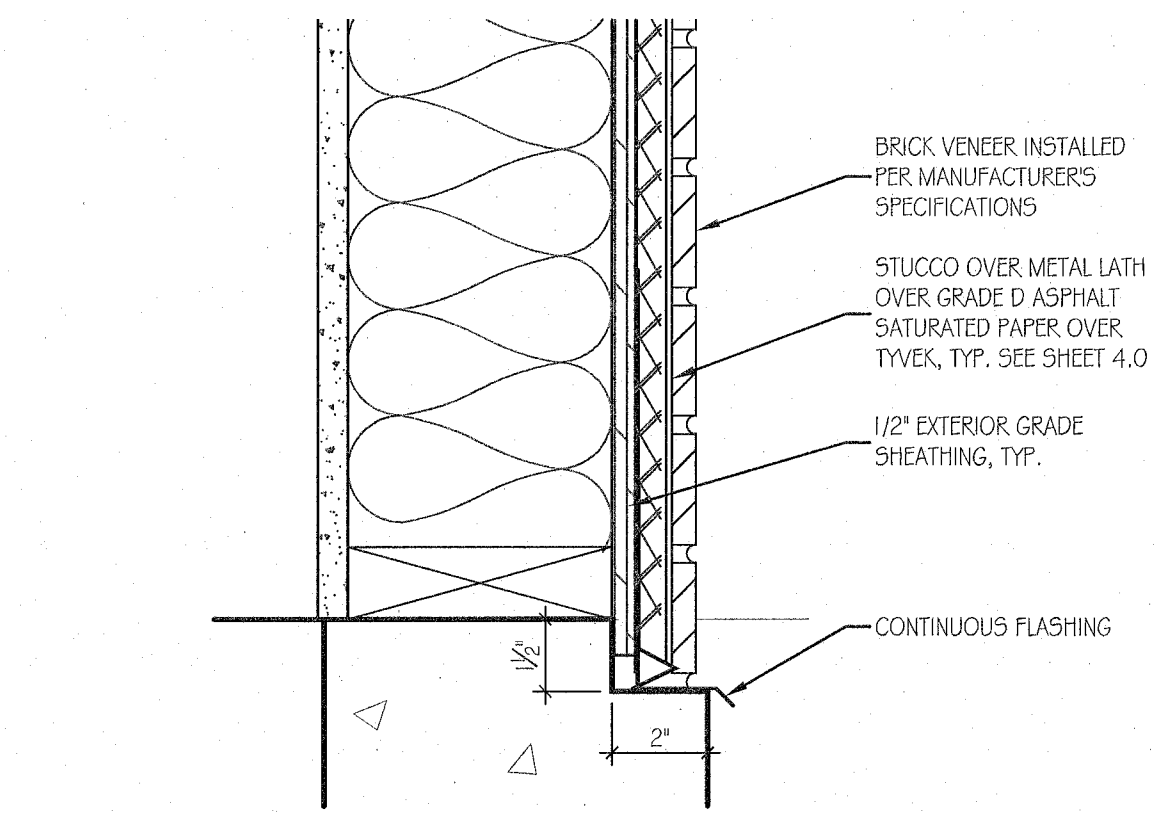


8 WALL BASE DETAIL @ TOWERS
SCALE: 3" = 1'-0"

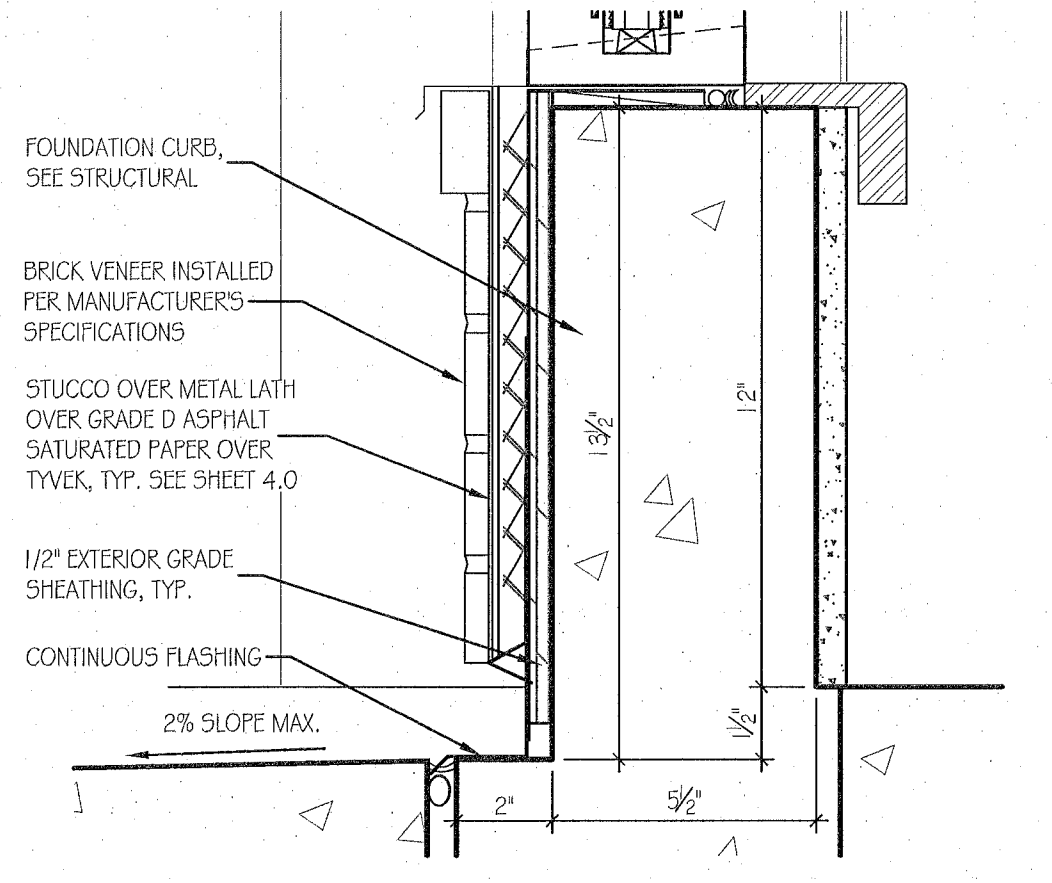


9 ROOF CANT DETAIL - FOR BUILT-UP ROOF
SCALE: 3" = 1'-0"

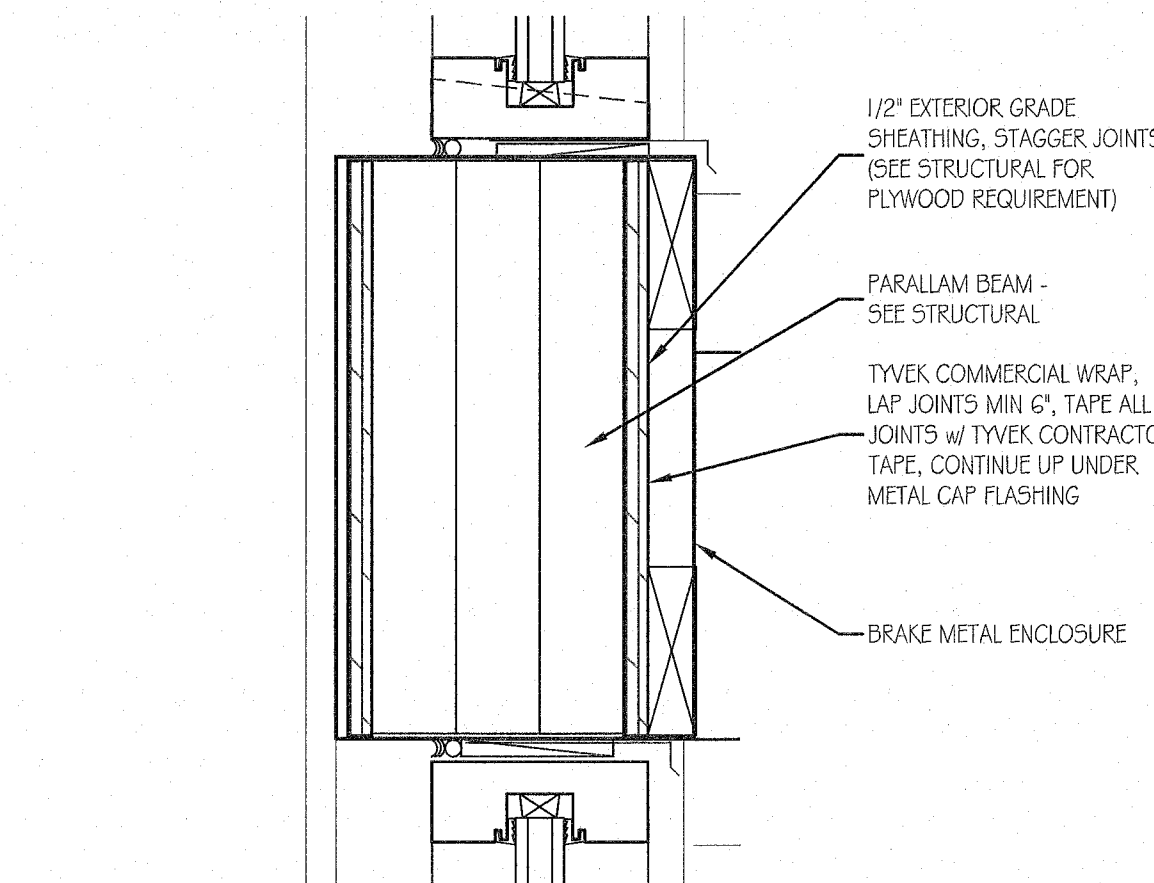
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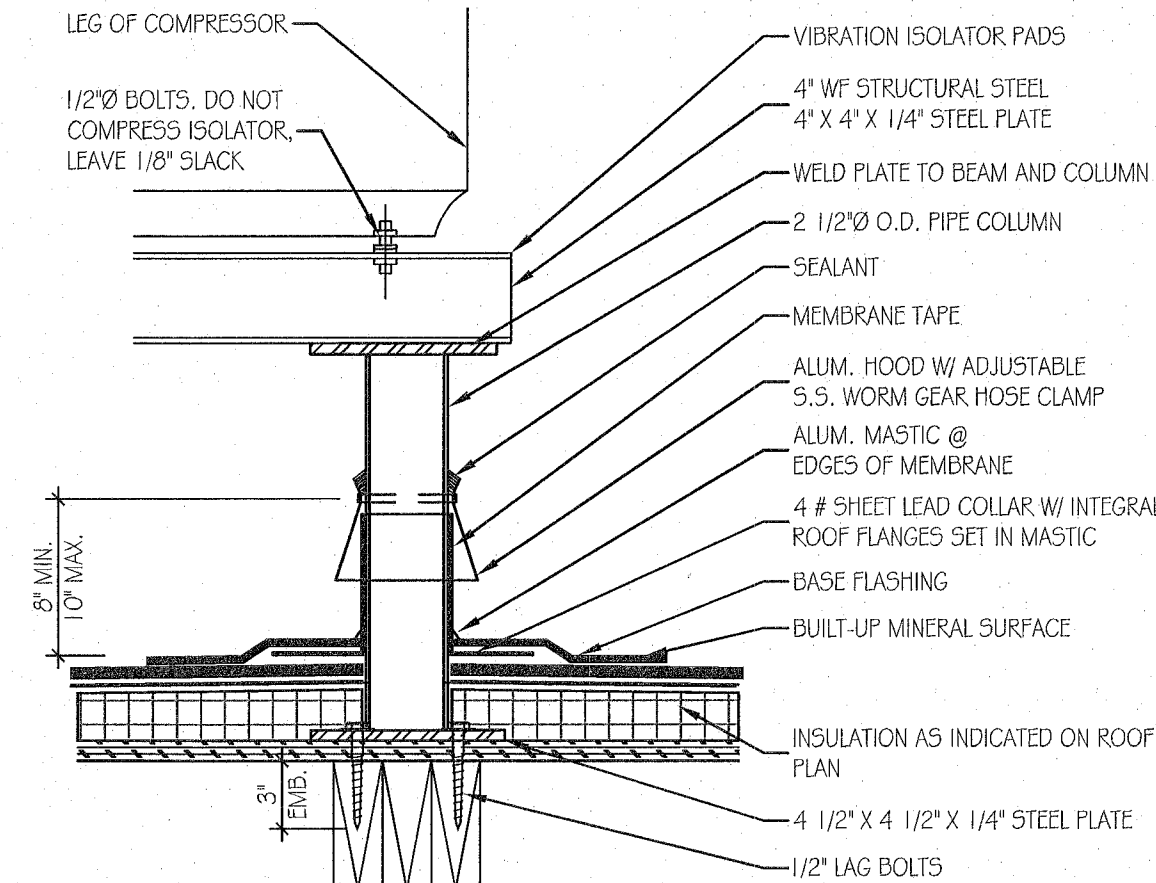
11 WALL BASE DETAIL - TYP.
SCALE: 3" = 1'-0"



12 WALL BASE DETAIL @ FRONT STOREFRONT
SCALE: 3" = 1'-0"

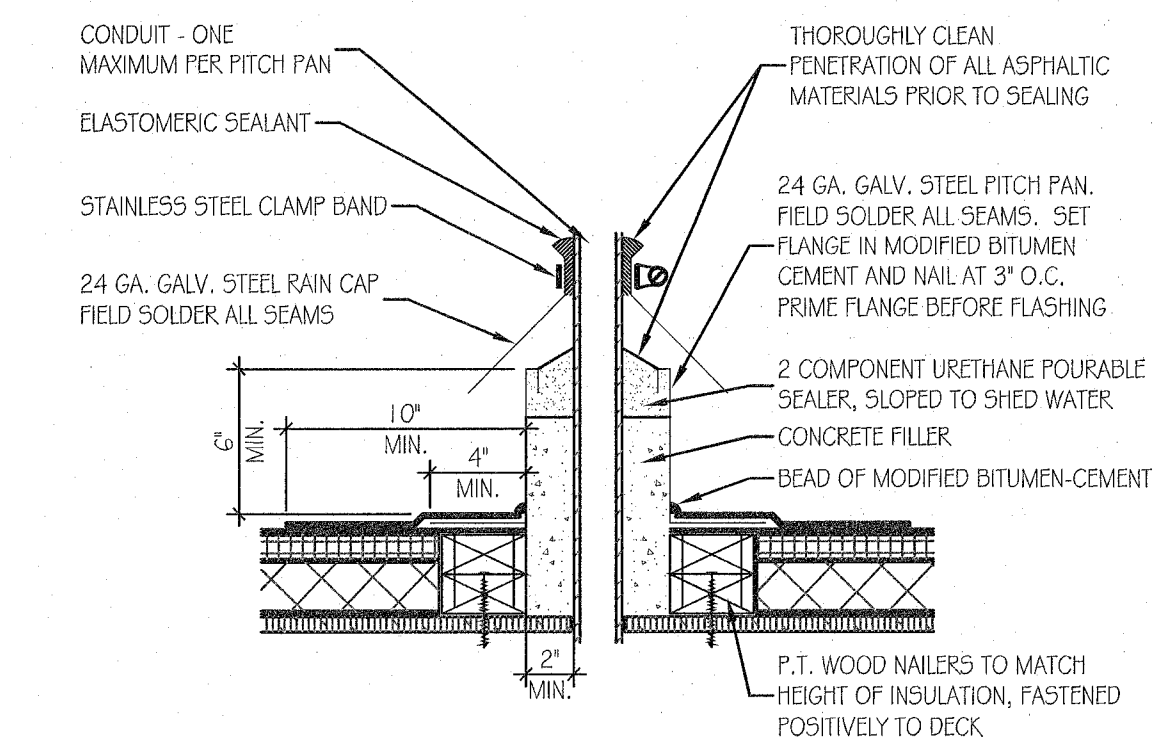


13 BEAM DETAIL
SCALE: 3" = 1'-0"

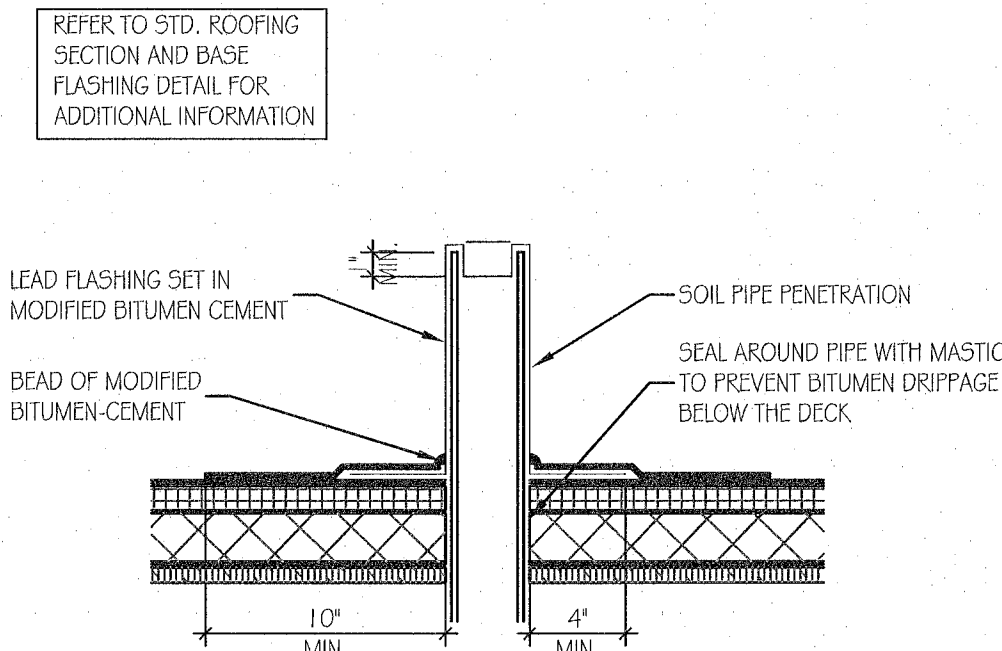


14 ROOF EQUIPMENT STAND DETAIL
SCALE: 3" = 1'-0"

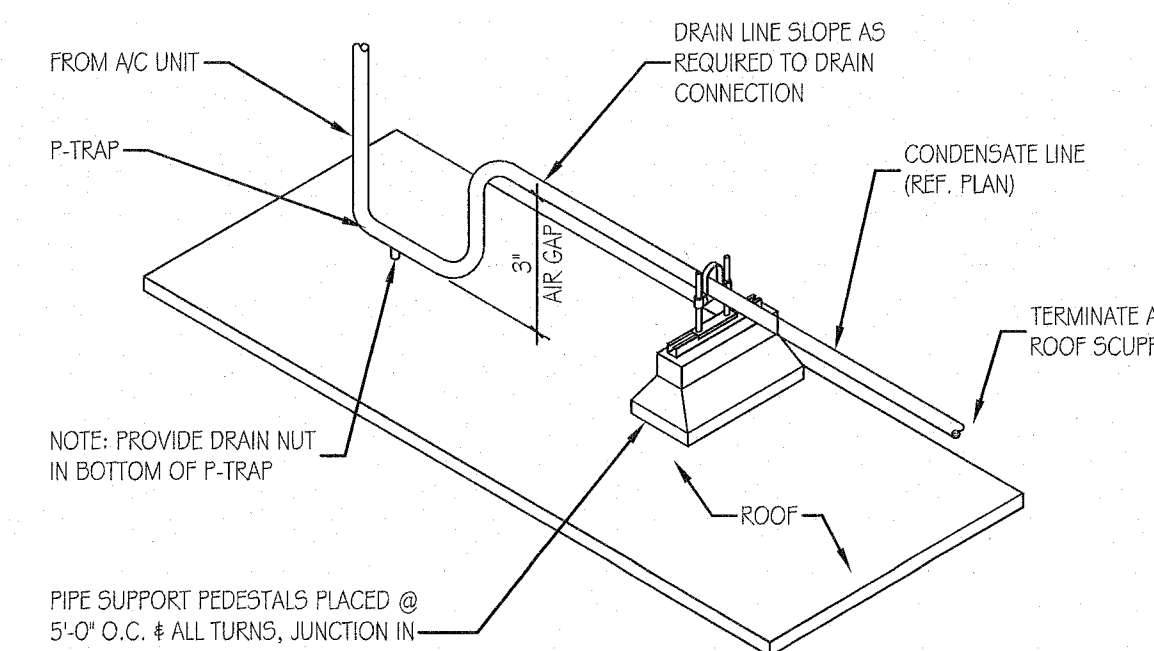
15 NOT USED



16 PITCH PAN DETAIL
SCALE: 1 1/2" = 1'-0"



17 SOIL PIPE FLASHING DETAIL
SCALE: 1 1/2" = 1'-0"

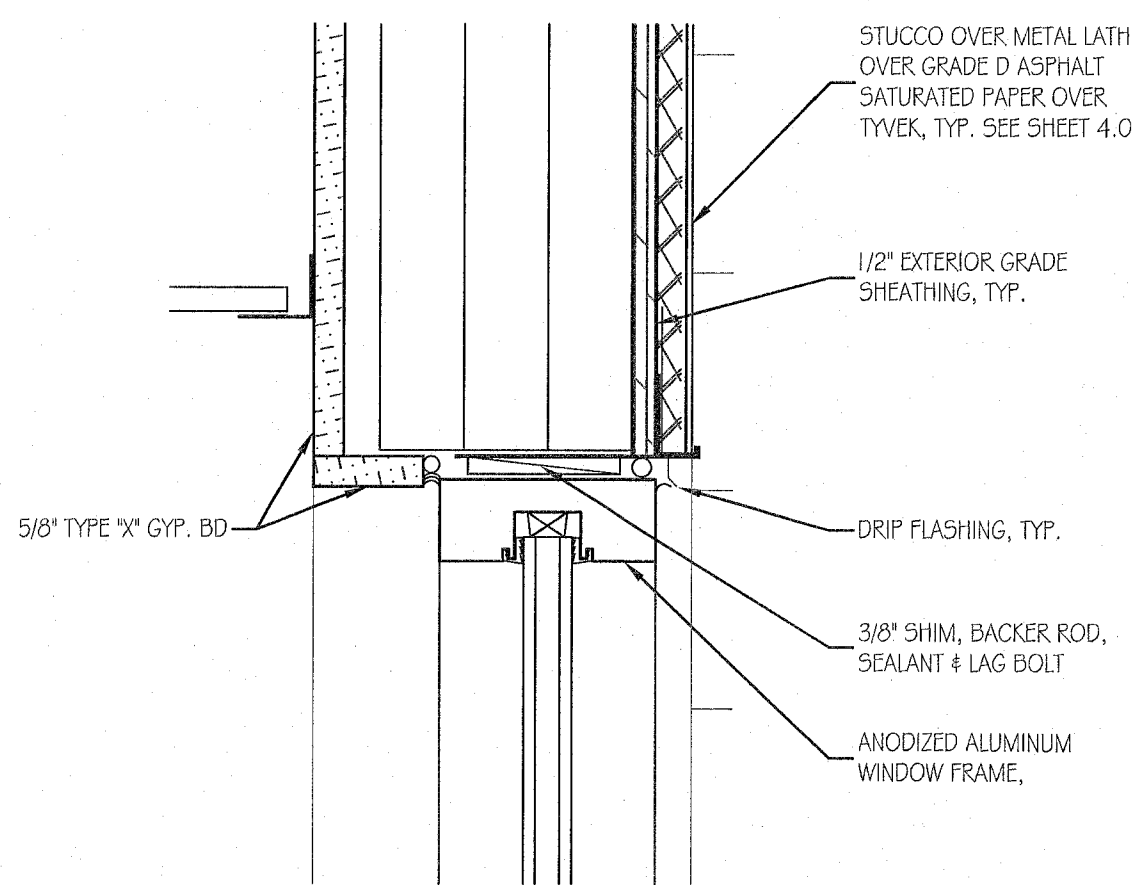


18 CONDENSATE LINE SUPPORT DETAIL
SCALE: NTS

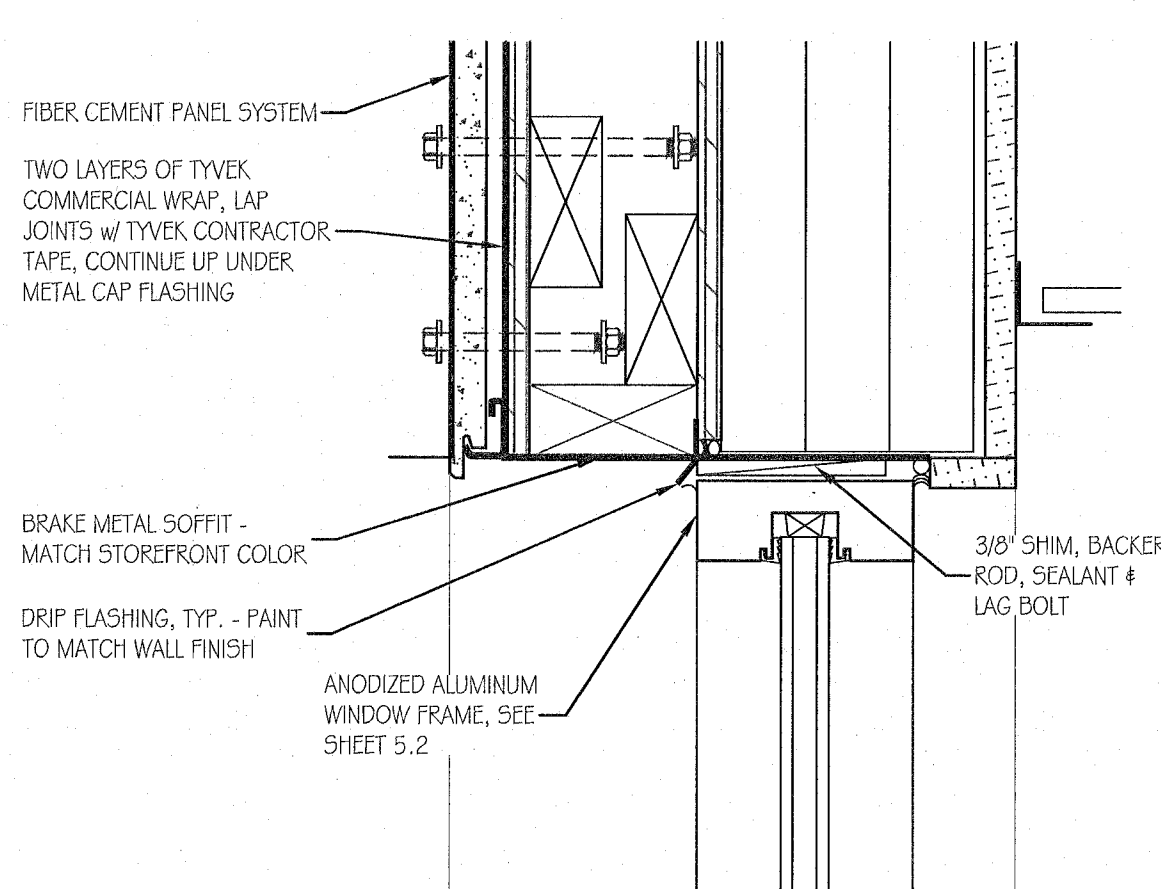
19 NOT USED

20 NOT USED

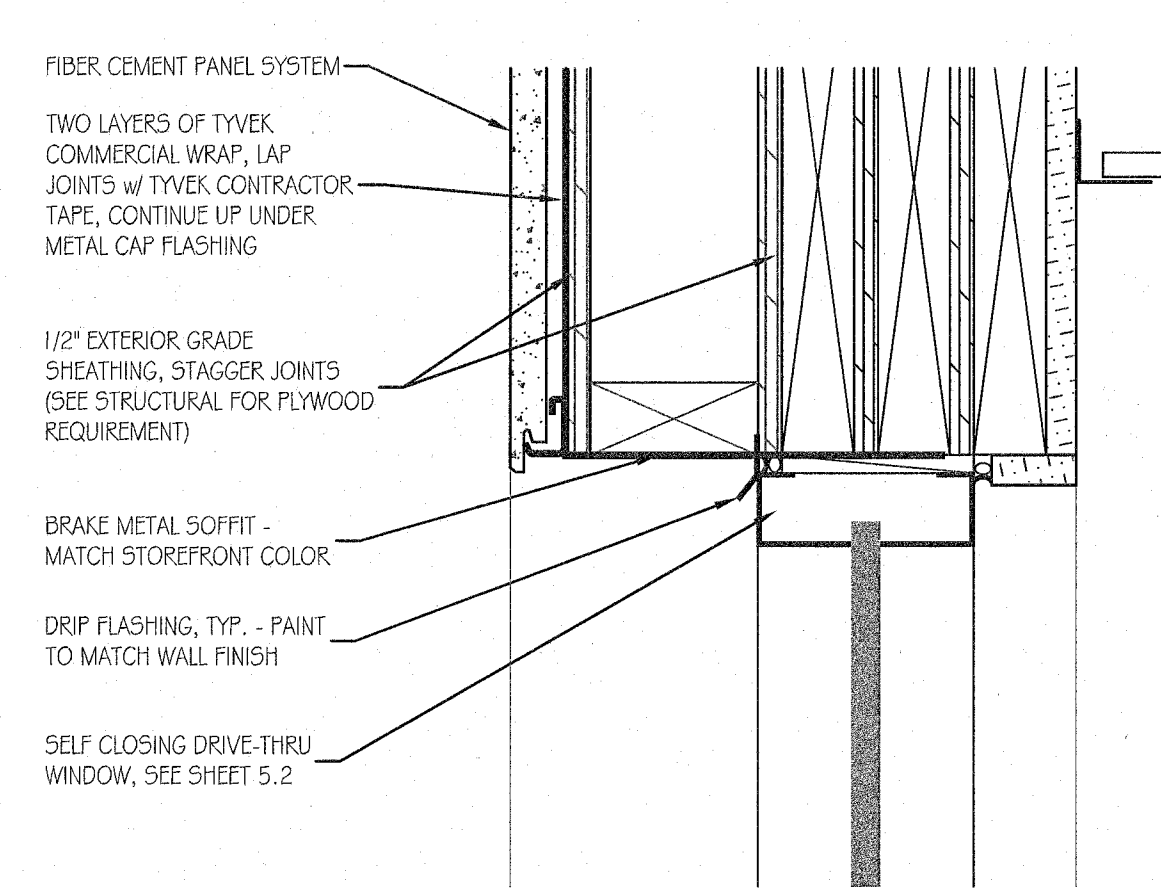
FILE NAME: 886-001_4 Door and Window Details.dwg
DESCRIPTION: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWN SCALE: 3" = 1'-0"
PLOT SCALE: 1/8" = 1'-0"



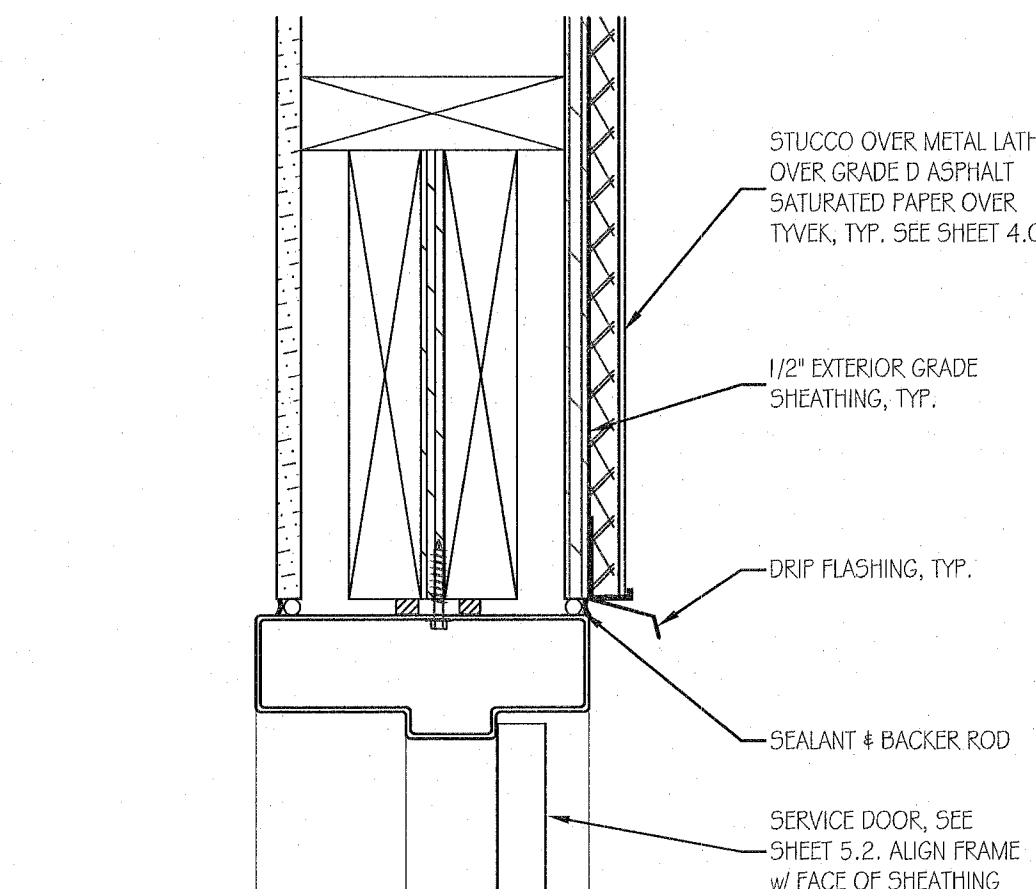
1 WINDOW HEAD DETAIL - TYP.
SCALE: 3" = 1'-0"



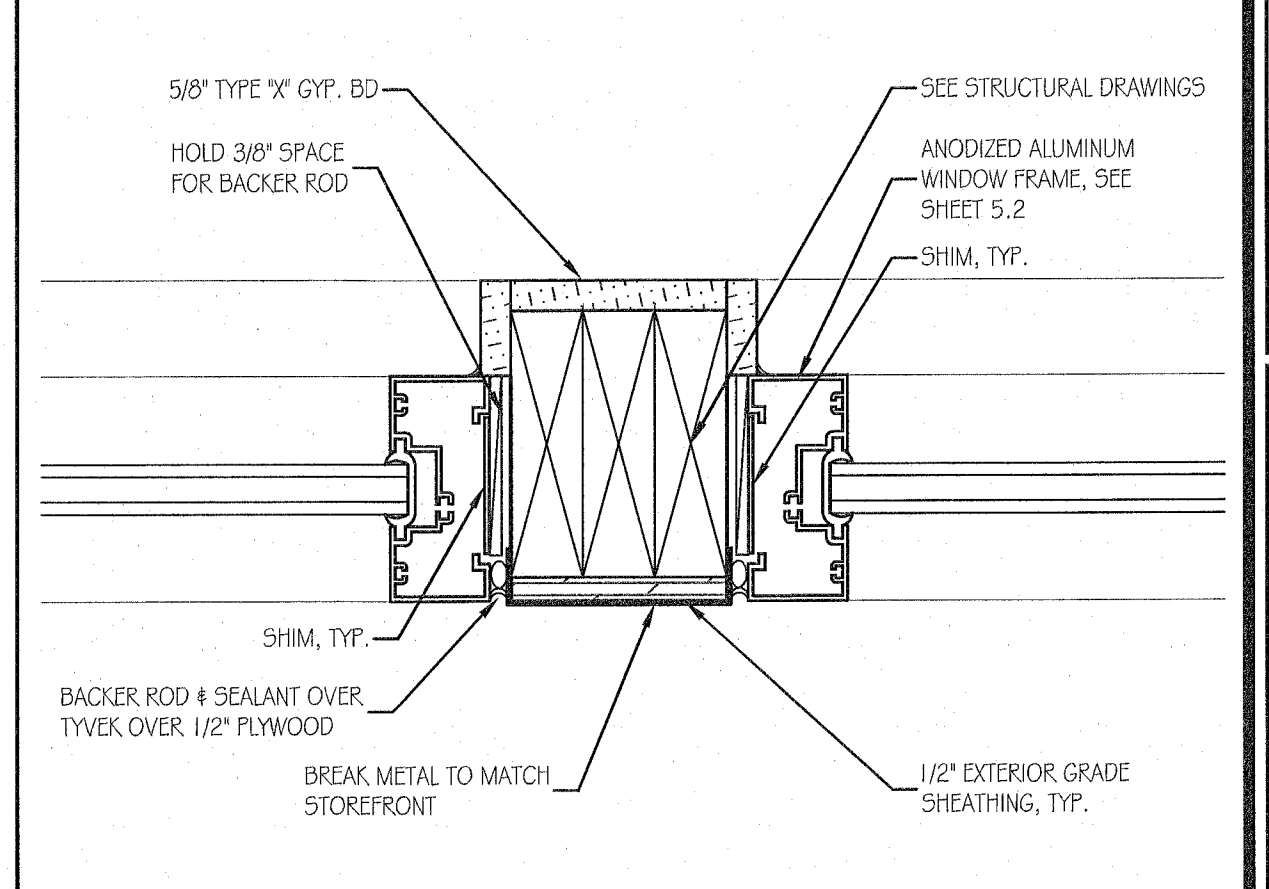
2 WINDOW HEAD DETAIL @ TOWER
SCALE: 3" = 1'-0"



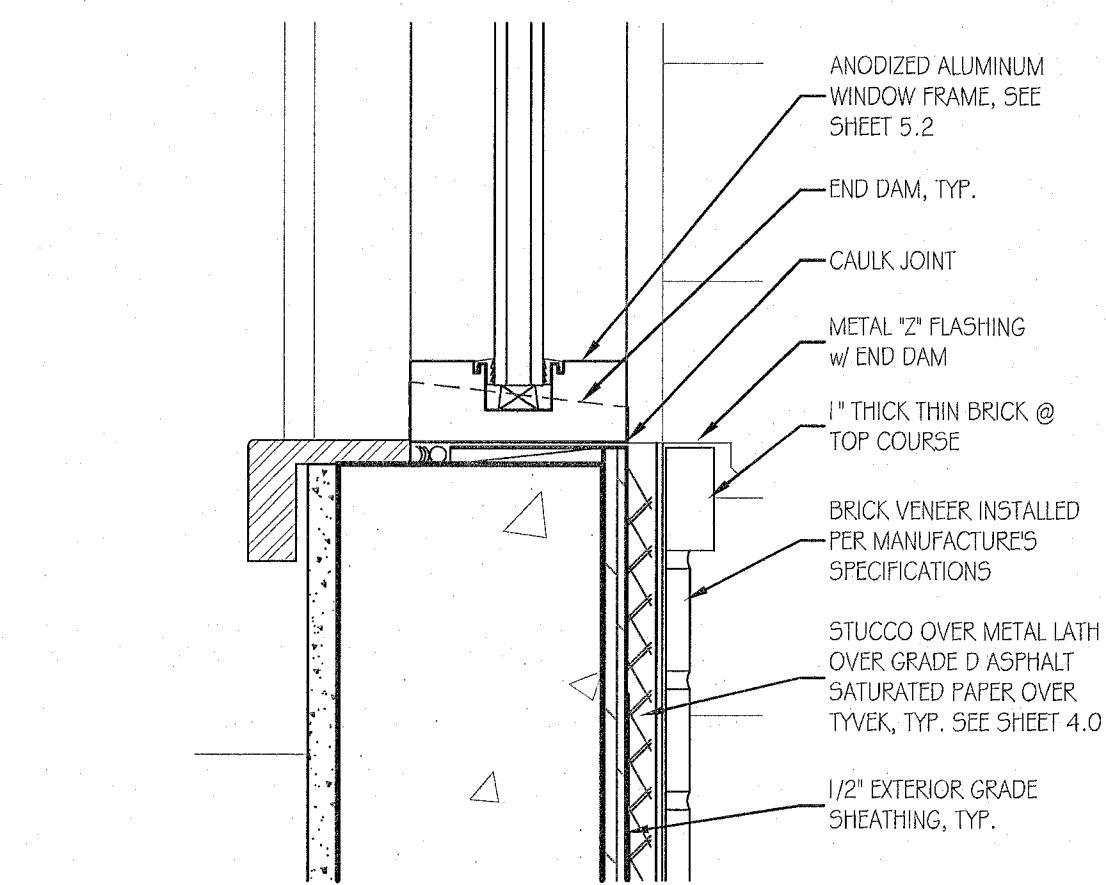
3 WINDOW HEAD DETAIL @ DRIVE THRU
SCALE: 3" = 1'-0"



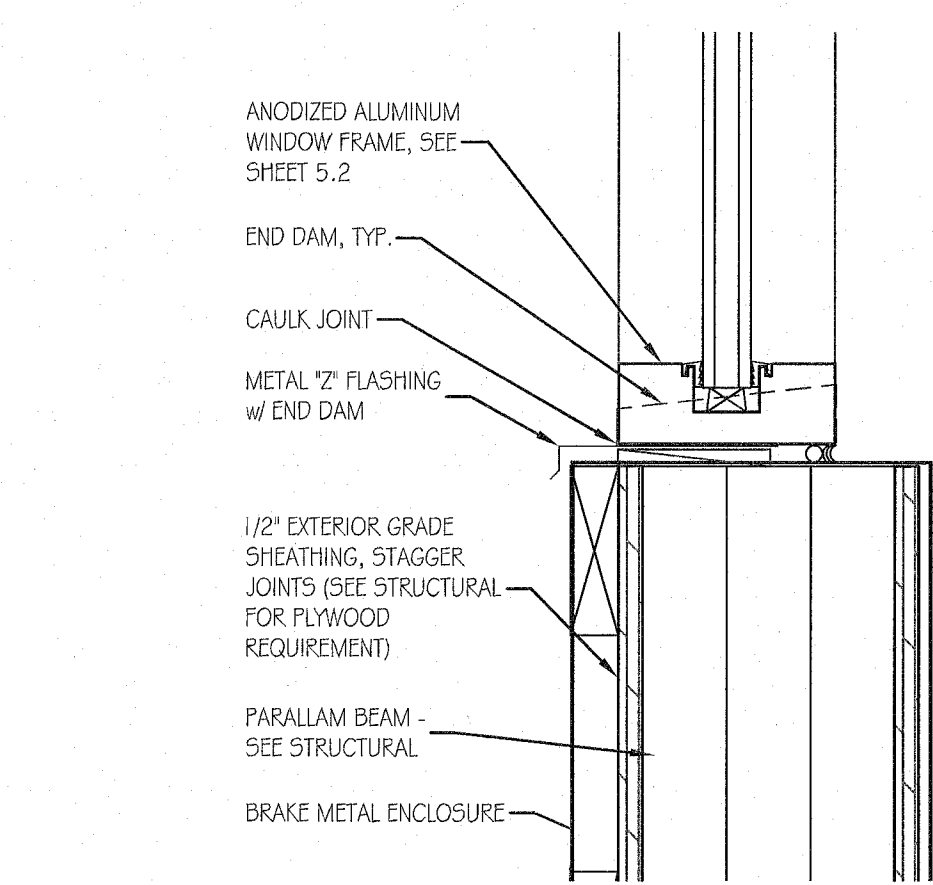
4 SERVICE DOOR HEAD DETAIL
SCALE: 3" = 1'-0"



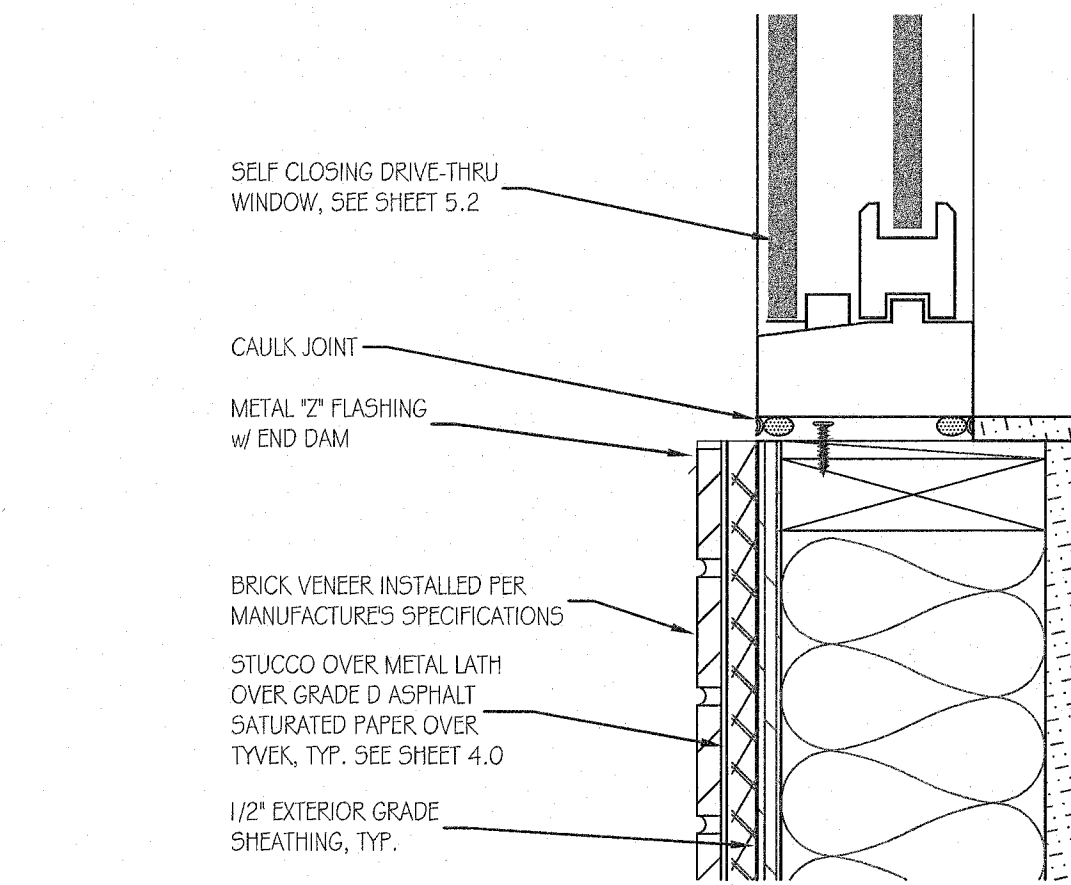
5 WINDOW JAMB DETAIL @ FRONT STOREFRONT
SCALE: 3" = 1'-0"



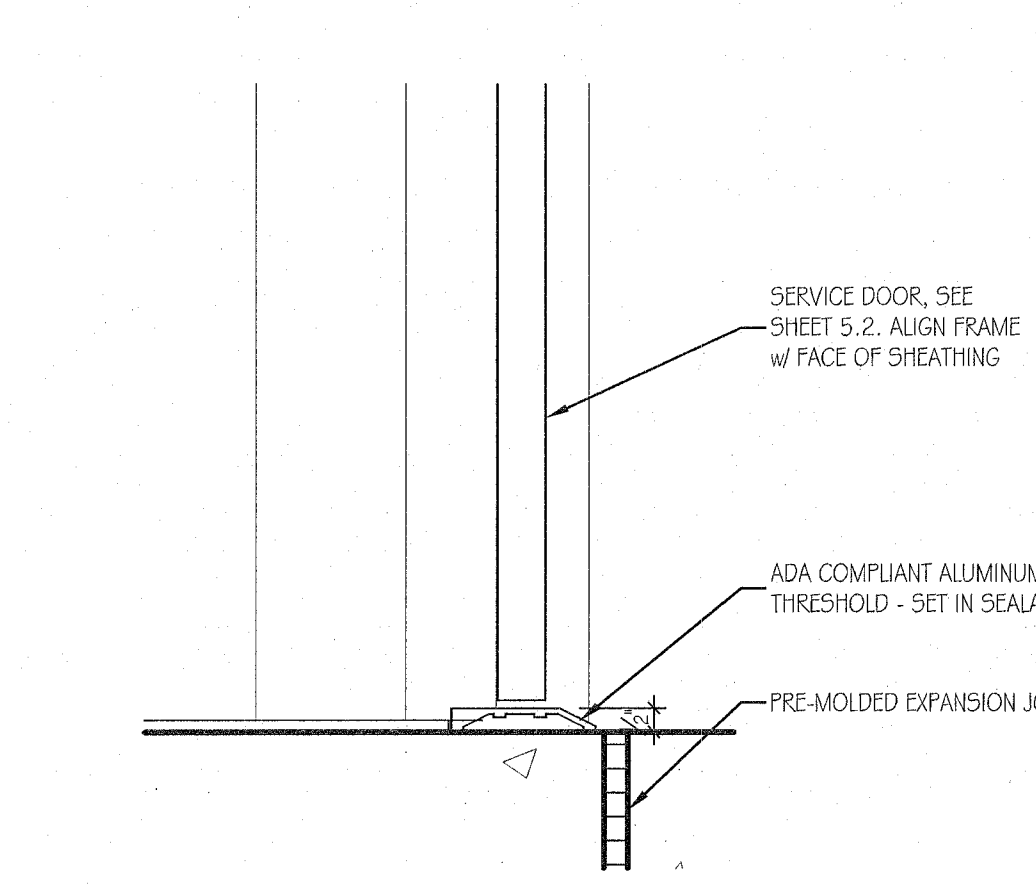
6 WINDOW SILL DETAIL
SCALE: 3" = 1'-0"



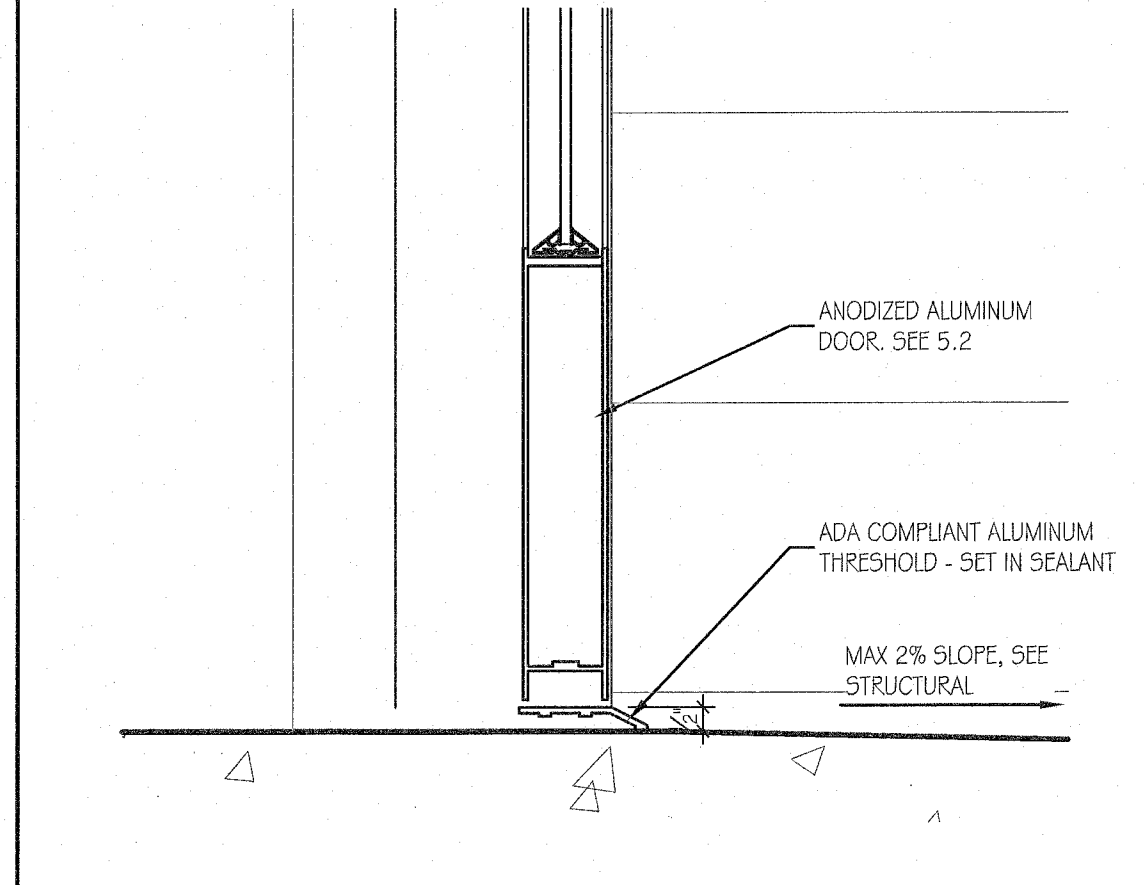
7 WINDOW SILL DETAIL @ CLERESTORY
SCALE: 3" = 1'-0"



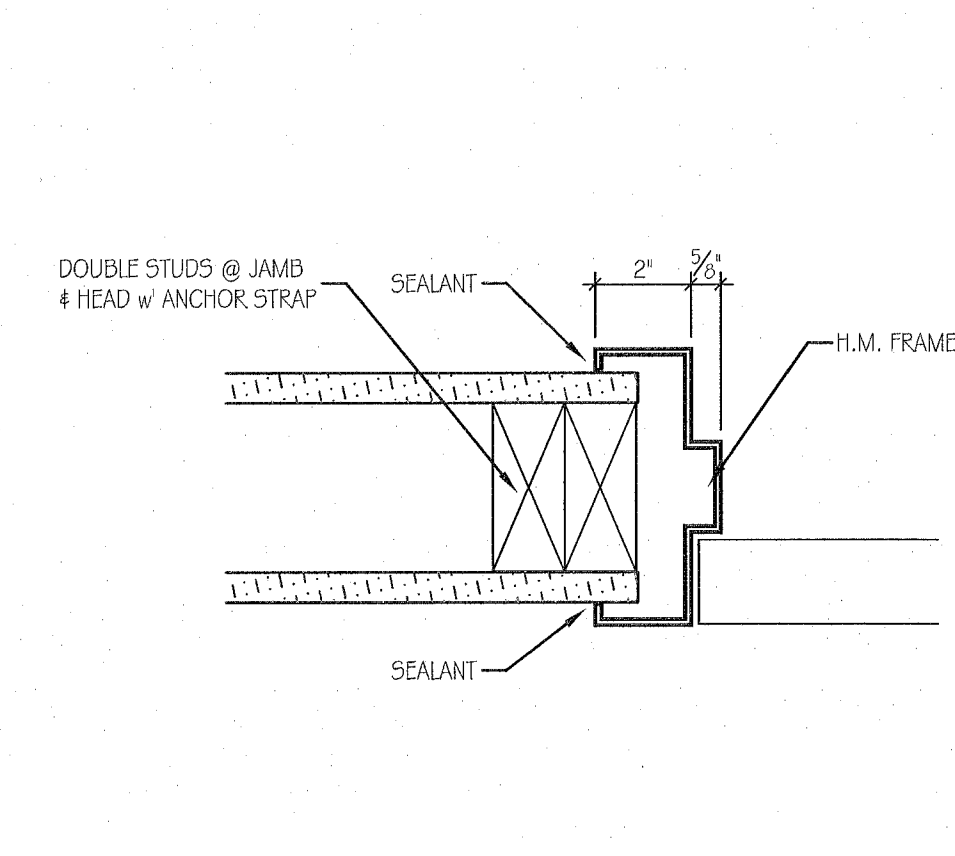
8 WINDOW SILL DETAIL @ DRIVE-THRU
SCALE: 3" = 1'-0"



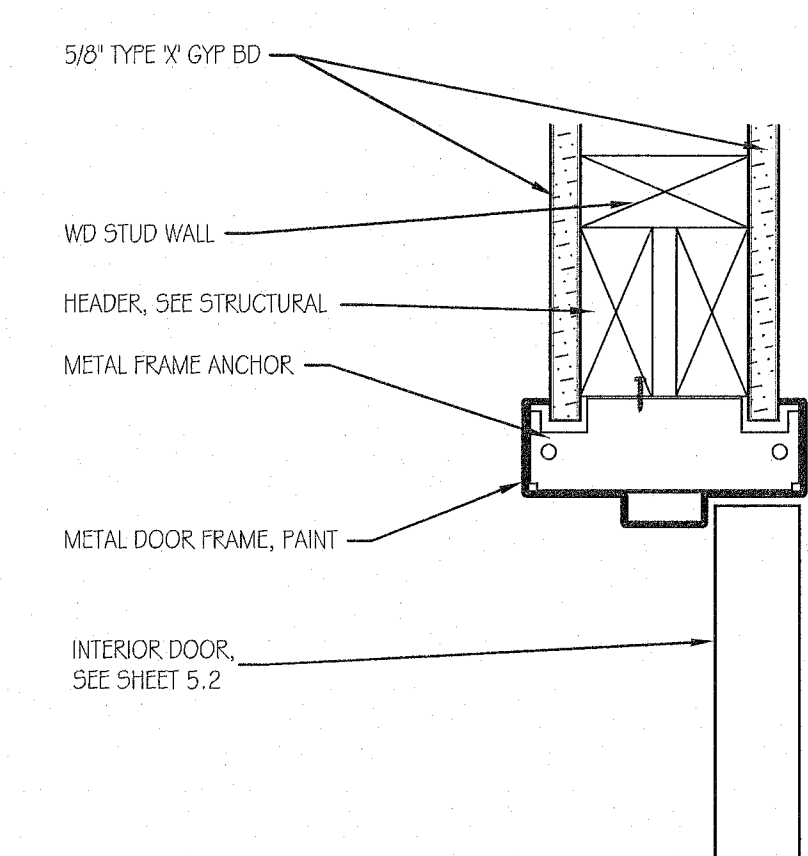
9 SERVICE DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"



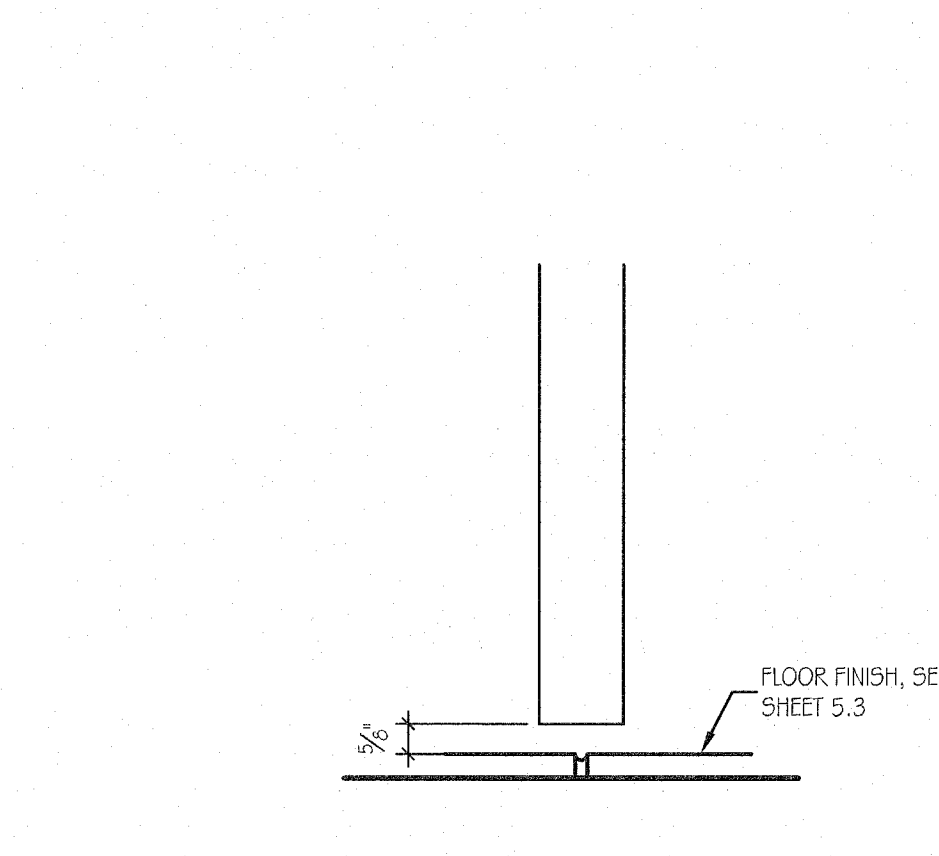
10 STOREFRONT DOOR THRESHOLD DETAIL
SCALE: 3" = 1'-0"



11 INTERIOR DOOR JAMB DETAIL - TYP.
SCALE: 3" = 1'-0"



12 INTERIOR DOOR HEAD DETAIL - TYP.
SCALE: 3" = 1'-0"



13 INTERIOR DOOR UNDERCUT DETAIL - TYP.
SCALE: 3" = 1'-0"

14 NOT USED

15 NOT USED

16 NOT USED

17 NOT USED

18 NOT USED

19 NOT USED

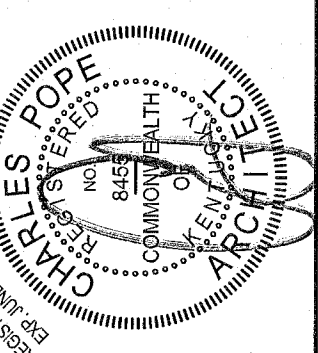
20 NOT USED

REVISIONS:

DOOR & WINDOW DETAILS

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

NOV 04 2021



Charles Pope
William Pope
& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11.03.21
JOB NO: 44387
DRAWN BY: JRL
SHEET NUMBER:



4.4

OF

20/20 GARDEN GRILL INTERIOR FINISH SCHEDULE									
INTERIOR MATERIALS & FINISH SCHEDULE: **TO BE USED WITH 20/20 GARDEN GRILL GUIDELINES DOC.									
1/10/2019									
ACT-10	ACOUSTICAL CEILING TILE	DINING	ARMSTRONGS	CORTEGA #710	PANEL COLOR: BEIPA EDGE: ANGLD REGULAR 1616 GRD: PHILLIPS 151P EXPOSED TILE GRD COLOR: WHITE	2' x 2' x 5/8"		CONTACT: LOUIS J. JOHNS (407) 607-8768 LJOHNS@AMSTRONGCEILING.COM AMERSTONS DIRECT ACCOUNTS: (800) 442-4212 JAMERSTON@AMSTRONGCEILING.COM	
ACT-20	ACOUSTICAL CEILING TILE	BACK OF HOUSE	ARMSTRONGS	MPM72 KITCHEN ZONE	PANEL COLOR: WHITE 10: PRELUGE 151P EXPOSED TILE GRD COLOR: WHITE	2' x 4' x 1/2"		CONTACT: CHRIS BENJAMIN CENAM@EMERSON.COM (314) 336-5458	
ACT-30	ACOUSTICAL CEILING TILE	BACK OF HOUSE	USG INTERLOCK	SHEETROCK MINNA LAYS LVL PANEL CLIMAPLUS #35	PANEL COLOR: WHITE GRD: DURA DAXDL GRD COLOR: WHITE	2' x 4' x 1/2"		NOTE: USE PROGRAM Q700 #101139 TO RECEIVE PRICING	
ACT-30	ACOUSTICAL CEILING TILE	PLAYGROUND		FNE FINESSE #1732	WHITE GRD: 2-4 ANGLD REGULAR 1616 GRD COLOR: WHITE	2' X 2' X 3/4"		CONTACT: CHRIS BENJAMIN CENAM@EMERSON.COM (314) 336-5458	
ACT-30 UPGRADE	ACOUSTICAL CEILING TILE	PLAYGROUND		FNE FINESSE #1732	GRD: 2-4 ANGLD REGULAR 1616 GRD COLOR: WHITE	2' X 2' X 3/4"		NOTE: USE PROGRAM Q700 #101139 TO RECEIVE PRICING	
ACT-30	ACOUSTICAL CEILING TILE	PLAYGROUND	USG INTERLOCK	WHITE RADAR CLIMAPLUS #210	PANEL COLOR: WHITE GRD: DURA DAXDL GRD COLOR: WHITE	2' X 2' X 3/4"		CONTACT: CHRIS BENJAMIN CENAM@EMERSON.COM (314) 336-5458	
ACT-30 UPGRADE	ACOUSTICAL CEILING TILE	PLAYGROUND		TAUPE RADAR CLIMAPLUS #210	PANEL COLOR: TAUPE GRD: DURA DAXDL GRD COLOR: TAUPE	2' X 2' X 3/4"		NOTE: USE PROGRAM Q700 #101139 TO RECEIVE PRICING	
CT-250	CERAMIC TILE	FIELD FLOOR TILE / BEVERAGE WALL	GRANITE FINANCE / EUROWEST	TC0204N02750	SIMPLY GRAY HONED (RECTIFIED)	24" x 24"		CONTACT: JANE DETER (714) 309-9551 JDET@BERGJOHNSON.COM	
			TCL TRANSCERAMIC A-LTD	X0029205	URBAN GRAY HONED (RECTIFIED)	24" x 24"		NOTE: USE WITH GR-150	
			EMISER	650P100Q2424	UPTOWN CUSTOM GRAY # 15 (RECTIFIED)	24" x 24"		CONTACT: CHRISTINA MASTRANGELO CMASTRANGELO@TRANSCERAMIC.COM JOY LYN EN (313) 334-3302 JLENT@TRANSCERAMIC.COM CONTACT: TAMARA RAMSEY (303) 903-3992 TAMARA@EMERSON.COM BURSING@EMERSON.COM	
CT-260	CERAMIC TILE	BASE TILE (MAIN HALL)	GRANITE FINANCE / EUROWEST	TC0122402750	SIMPLY GRAY HONED (RECTIFIED)	8" x 24" (CUT TILE)		CONTACT: JANE DETER (714) 309-9551 JDET@BERGJOHNSON.COM	
			TCL TRANSCERAMIC A-LTD	X0029205	URBAN GRAY HONED (RECTIFIED)	24" (CUT TILE)		NOTE: USE WITH GR-150	
			EMISER	CUT BASE TILE FROM 12" X 24"	UPTOWN CUSTOM GRAY # 15 (RECTIFIED)	8" X 24" (CUT TILE)		CONTACT: CHRISTINA MASTRANGELO CMASTRANGELO@TRANSCERAMIC.COM JOY LYN EN (313) 334-3302 JLENT@TRANSCERAMIC.COM CONTACT: TAMARA RAMSEY (303) 903-3992 TAMARA@EMERSON.COM BURSING@EMERSON.COM	
CT-270	CERAMIC TILE	CORRIDOR WALL / RESTROOM WALL AND FLOOR	GRANITE FINANCE / EUROWEST	TC0122402750	SIMPLY GRAY HONED (RECTIFIED)	12" x 24"		CONTACT: JANE DETER (714) 309-9551 JDET@BERGJOHNSON.COM	
			EMISER	650P10012424	UPTOWN CUSTOM GRAY # 15 (RECTIFIED)	12" x 24"		CONTACT: TAMARA RAMSEY (303) 903-3992 TAMARA@EMERSON.COM BURSING@EMERSON.COM	
								NOTE: USE WITH GR-150	
CT-280	CERAMIC TILE	DINING / ACCENT TILE LIGHT WOODSTONE WALL AND FLOOR WOOD WALL WANDSCOTT TILE (STACKED BOND)	GRANITE FINANCE / EUROWEST	LARD LUS (Bench wood) 850 0091123	WOOD TILE (RECTIFIED)	6" x 24"		CONTACT: JANE DETER (714) 309-9551 JDET@BERGJOHNSON.COM	
			TCL TRANSCERAMIC A-LTD	TCL LARD LUS (Bench wood) R00624123	WOOD TILE (RECTIFIED)	6" x 24"		NOTE: USE WITH GR-175 DINING WALLS	
								CONTACT: JANE DETER (714) 309-9551 JDET@BERGJOHNSON.COM	
CT-290	CERAMIC TILE				(RECTIFIED)			NOTE: USE WITH GR-150	
								CONTACT: CHRISTINA MASTRANGELO CMASTRANGELO@TRANSCERAMIC.COM JOY LYN EN (313) 334-3302 JLENT@TRANSCERAMIC.COM	
								CONTACT: TAMARA RAMSEY (303) 903-3992 TAMARA@EMERSON.COM BURSING@EMERSON.COM	
CT-300	CERAMIC TILE	RESTROOM WALL / EXTERIOR ACCENT RED TILE	GRANITE FINANCE / EUROWEST	GENIBLE STONE 025092	SIGN RED NATURAL	12" x 24"		CONTACT: JANE DETER (714) 309-9551 JDET@BERGJOHNSON.COM	
			TCL TRANSCERAMIC A-LTD	TCL ED5092 GENIBLE STONE	SIGN RED NATURAL	12" x 24"		NOTE: USE WITH GR-150	
			CERAMIC TECH 55	SASSWOOD STONE TONES	WHITE GLOSSY SUBWAY TILE	3'x12" SUBWAY TILE		CONTACT: CHRISTINA MASTRANGELO CMASTRANGELO@TRANSCERAMIC.COM JOY LYN EN (313) 334-3302 JLENT@TRANSCERAMIC.COM	
CT-310	CERAMIC TILE	SERVICE AREA / FOOD PREP	GRANITE FINANCE / EUROWEST	1150GLOS06W11	WHITE GLOSSY SUBWAY TILE	3'x12" SUBWAY TILE		NOTE: USE WITH GR-150	
			TCL TRANSCERAMIC A-LTD	TC0318	WHITE GLOSSY SUBWAY TILE	3' X 12" SUBWAY TILE		CONTACT: JANE DETER (714) 309-9551 JDET@BERGJOHNSON.COM	
			EMISER	CHOICE GLOSSY WHITE 195CHCW40312	WHITE GLOSSY SUBWAY TILE	3'x12" SUBWAY TILE		CONTACT: CHRISTINA MASTRANGELO CMASTRANGELO@TRANSCERAMIC.COM JOY LYN EN (313) 334-3302 JLENT@TRANSCERAMIC.COM	
CT-100	QUARRY TILE	BACK OF HOUSE	INTERCERAMIC	QUARRY BASICS 57XA	PURPAIN GREY	6" X 6"		NOTE: USE WITH GR-40	
			OLYMPIA TILE	METROPOLITAN	PURPAIN GREY	6" X 6"		CONTACT: VICKHA FRISH VFRISH@DAPARTILE.COM (654) 955-5208	
			EMISER	E-QUARRY SMOKE	OLYMPIA SMOKE	6" X 6"		NOTE: USE WITH GR-40	
CT-110	QUARRY TILE BASE	BACK OF HOUSE COVE BASE	INTERCERAMIC	QUARRY BASICS	COVE BASE 57SM	6" X 6"		NOTE: USE WITH GR-40	
			OLYMPIA TILE	METROPOLITAN	PURPAIN GREY	6" X 6"		CONTACT: VICKHA FRISH VFRISH@DAPARTILE.COM (654) 955-5208	
			EMISER	E-QUARRY SMOKE	COVE BASE	6" X 6"		NOTE: USE WITH GR-40	
FRP-10	FIBERGLASS REINFORCED PANEL	BACK OF HOUSE	MARLITE	FRP SYMMETRIC	C100 0013	4'x6' 4'x10'		CONTACT: CUSTOMER SERVICE (303) 343-5434 ATA-CRAD (404) 506-1335 ACRAD@BALTILE.COM	
TR-10	EDGE PROFILE	OUTSIDE CORNERS OF WALL TILE / BASE TILE TRIM AT RESTROOM	SCHLUTER	QMADEC 0100AT	SATIN NICKEL ANODIZED ALUMINUM	36"		NOTE: DO TO COORDINATE HEIGHT AS BASED UPON TILE THICKNESS AND SETTING SYSTEM	
TR-30	COVE BASE PROFILE	GENERAL RESTROOM	SCHLUTER	DILEX A40-100AT	SATIN NICKEL ANODIZED ALUMINUM	36"		NOTE: DO TO COORDINATE HEIGHT AS BASED UPON TILE THICKNESS AND SETTING SYSTEM	
TR-30	EDGE PROFILE	BACK OF HOUSE	MARLITE	OUTSIDE CORNER 4550	SATIN ANODIZED ALUMINUM	710" EXPOSED EDGE / 8" LONG		NOTE: DO TO COORDINATE HEIGHT AS BASED UPON TILE THICKNESS AND SETTING SYSTEM	
TS-10	TRANSITION STRIP	CERAMIC TILE TO CERAMIC TILE	SCHLUTER SYSTEMS	TRANSITION PROFILES FOR FLOORING	SCHWEN (RADIUS) RE 100 / R SATIN ANODIZED ALUMINUM AE 100 / R SATIN ANODIZED 38" - 10MM	36"		NOTE: DO TO COORDINATE HEIGHT AS BASED UPON TILE THICKNESS AND SETTING SYSTEM	

[illegible]

FINISH SCHEDULE

												
ROOM		FLOOR	BASE	WALLS (PLAN NORTH)				CEILING			REMARKS	
NO.	ROOM NAME	MATL	MATL	NORTH	EAST	SOUTH	WEST	MATL	FINISH	HEIGHT		
101	DINING	CT-25, CT-28, CT-29	CT-2G	WP-2,P-15	WP-2,P-15	WP-2,P-15, CT-25, CT-28	WP-2,P-15, CT-28	-	-	OPEN	SEE FINAL APPROVED DECOR PLANS BY DECOR VENDOR FINAL FINISHES	
102	HALL	CT-25, CT-28, CT-29	CT-2G	WP-2,P-15	-	CT-27,WP-2, P-15	WP-2,P-15	GYP	P-5	9'-2"	SEE FINAL APPROVED DECOR PLANS BY DECOR VENDOR FINAL FINISHES	
103	WOMEN	CT-27	-	CT-30	CT-28	CT-27	CT-28	GYP	P-5	8'-6"	SEE FINAL APPROVED DECOR PLANS BY DECOR VENDOR FINAL FINISHES	
104	MEN	CT-27	-	CT-30	CT-28	CT-27	CT-28	GYP	P-5	8'-6"	SEE FINAL APPROVED DECOR PLANS BY DECOR VENDOR FINAL FINISHES	
105	CUSTOMER	CT-25, CT-28, CT-29	-	CT-27	-	CT-28	-	GYP	P-5	OPEN	SEE FINAL APPROVED DECOR PLANS BY DECOR VENDOR FINAL FINISHES	
106	SERVING	CT-10G	CT-11G	CT-27	-	-	CT-27	ACT-2G	-	10'-0"	MENU BOARD SOFFIT @ 7'-0", PAINT P-3G, FURREDOWN @ 9'-2"	
107	KITCHEN	CT-10G	CT-11G	FRP-1G	FRP-1G	FRP-1G	FRP-1G	ACT-2G	-	8'-6"	SMOOTH FACE FRP IN B.O.H. TYP.	
108	OFFICE	CT-10G	CT-11G	FRP-1G	FRP-1G	FRP-1G	FRP-1G	ACT-2G	-	8'-6"	SMOOTH FACE FRP IN B.O.H. TYP.	
109	CREW	CT-10G	CT-11G	FRP-1G	FRP-1G	FRP-1G	FRP-1G	ACT-2G	-	8'-6"	SMOOTH FACE FRP IN B.O.H. TYP.	
110	STOCK	CT-10G	CT-11G	FRP-1G	FRP-1G	FRP-1G	FRP-1G	ACT-2G	-	8'-6"	SMOOTH FACE FRP IN B.O.H. TYP.	
111	COOLER	-	-	-	-	-	-	-	-	-	PRE-FINISHED COOLER	
112	FREEZER	-	-	-	-	-	-	-	-	-	PRE-FINISHED FREEZER	
113	CLOSET	-	-	-	-	-	-	-	-	-		
114	STORAGE	CT-10G	CT-11G	FRP-1G	FRP-1G	FRP-1G	FRP-1G	ACT-2G	-	8'-6"	SMOOTH FACE FRP IN B.O.H. TYP.	

GENERAL NOTES

1. INSTALL FRP ON KITCHEN SIDE OF SERVING COUNTER WALL.

2. GALV. STEEL WALL AND CEILING FINISHES BY WCM/F BOX MFR.

3. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS OF TILE AND FRP.

4. FOR FINISH LOCATIONS REFER TO: SHEETS 3.3.1, 3.3.2 & 3.3.3 - EXTERIOR ELEVATIONS; SHEET 5.3 - FLOOR FINISH PLAN; SHEET 3.2 - REFLECTED CEILING PLAN; SHEETS 3.4 & 11.1 - INTERIOR ELEVATIONS

5. APPROVED PAINT MANUFACTURERS: PORTER, BENJAMIN MOORE, SHERWIN WILLIAMS, ICI, & PITTSBURGH PAINTS. MATCH SPECIFIED SCHEDULE COLORS EXACTLY.

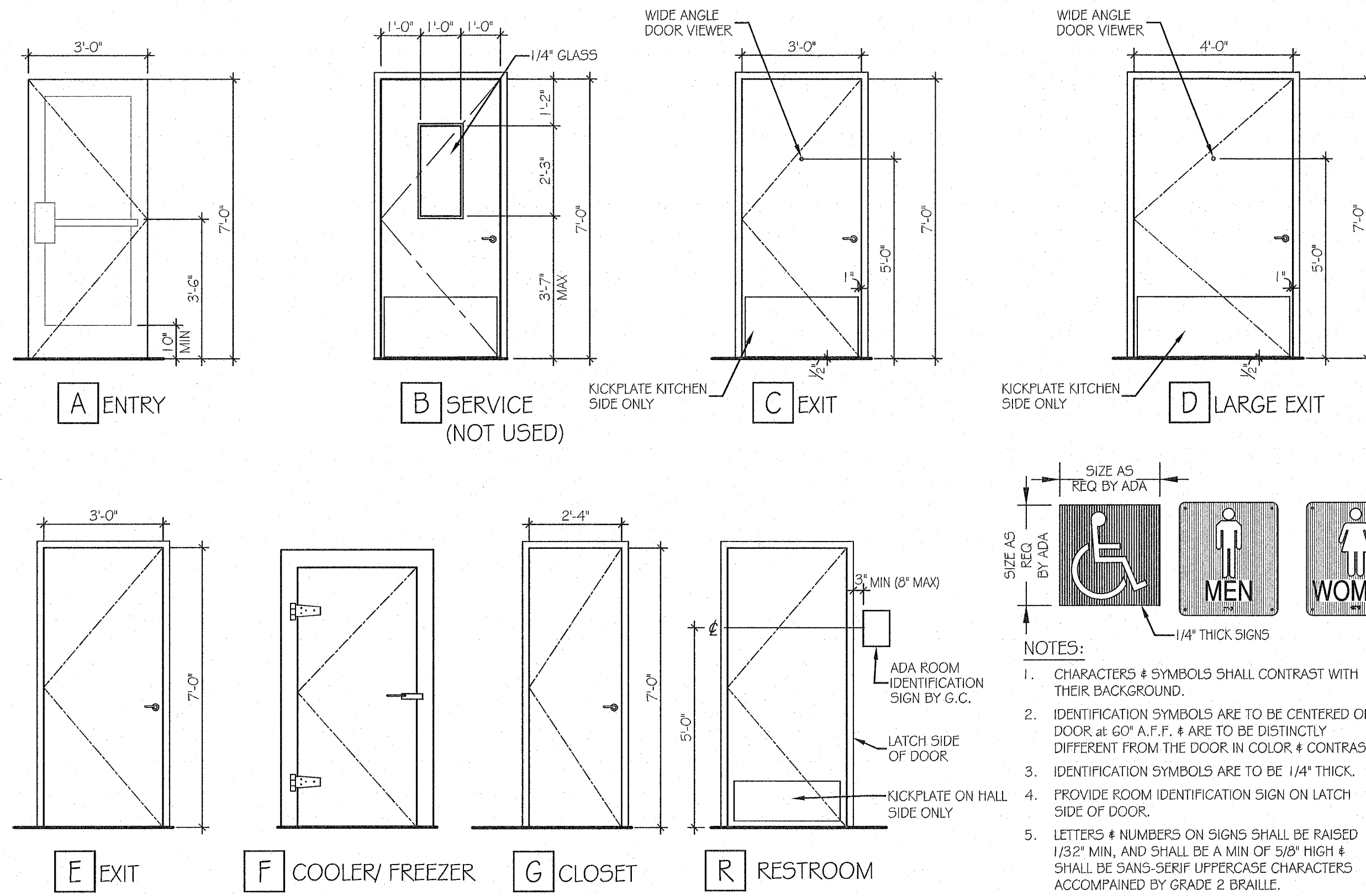
6. ALL PAINTED GYPSUM BOARD SHALL HAVE A LIGHT ORANGE PEEL TEXTURE

7. ALL MORTAR SHALL BE MIXED w/ WHITE SAND TO INSURE A COLOR CONSISTENT TO THE ORIGINAL DESIGN INTENT

GYP. BD. TYPE

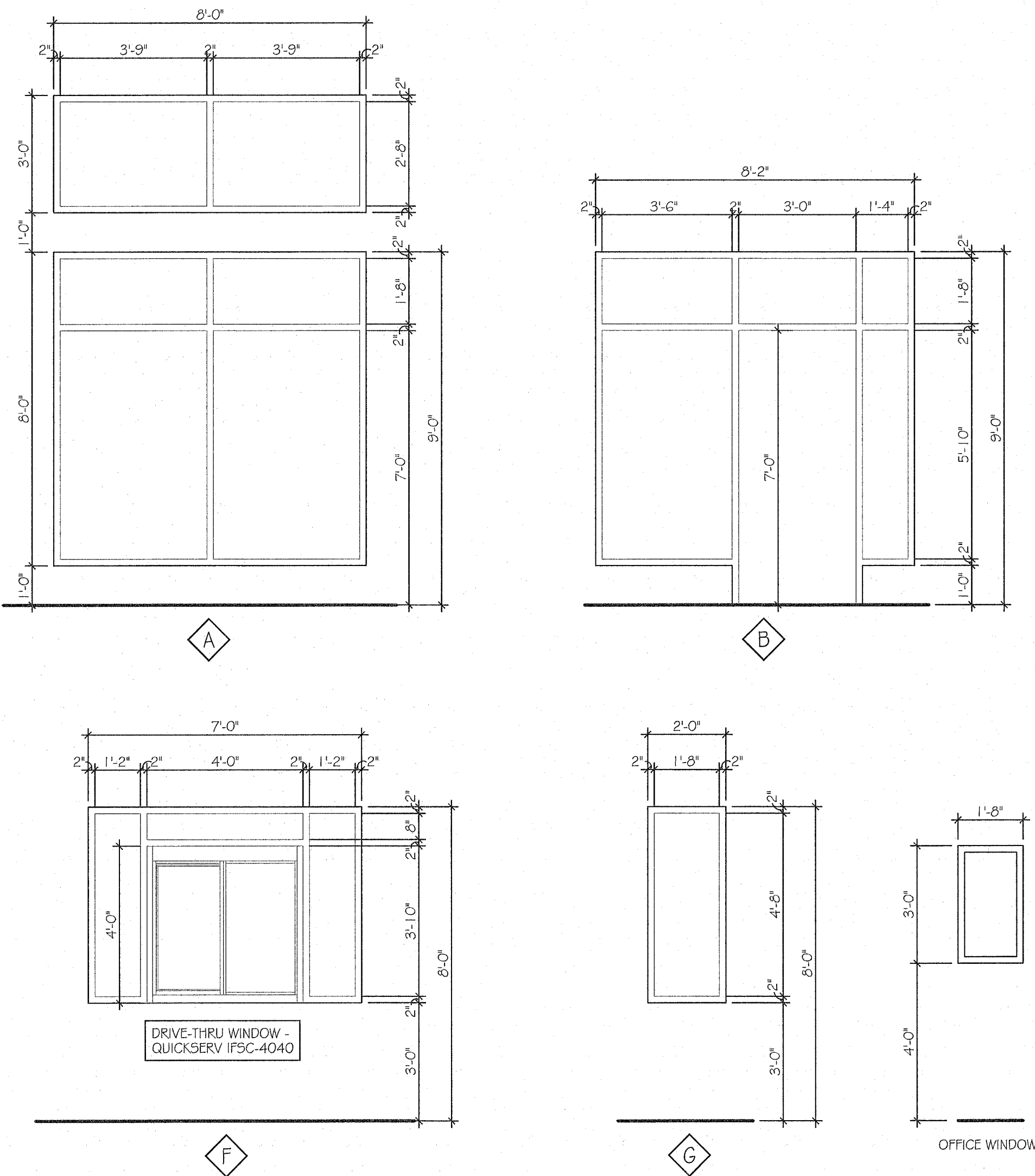
LOCATION	TYPE	MFG. / PRODUCT	REMARKS
WALLS WITH TILE	AQUA TOUGH: MATCH GYP. BD THICKNESS	USG	PROVIDE CEMENT BOARD UP TO 2"4 A.F.F.
GENERAL LOCATIONS	TYPE 'X', THICKNESS PER WALL TYPE	USG	
NOTE: ALL SHEETROCK TO BE TYPE 'X'			

[illegible]



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

ALL GLASS TO BE TEMPERED



2 WINDOW ELEVATIONS
SCALE: 3/8" = 1'-0"

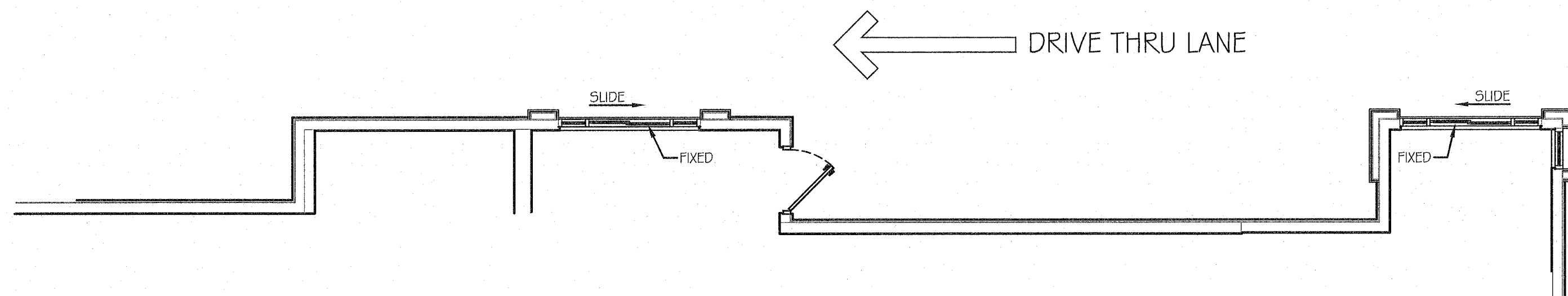
ALL GLASS TO BE TEMPERED

DOOR SCHEDULE

Number	Type	Door					Frame		Fire Rating	Hardware Set	Details			Remarks	
		Mat'l	Finish	Width	Height	Thick	Mat'l	Throat			Head	Jamb	Sill		
101A	A	AL	-	3'-0"	7'-0"	1-3/4"	AL			1			SEE NOTE 1		
101B	A	AL	-	3'-0"	7'-0"	1-3/4"	AL			9					
103	R	SC	-	3'-0"	6'-8"	1-3/4"	HM			2					
104	R	SC	-	3'-0"	6'-8"	1-3/4"	HM			2					
107A	C	HM	-	3'-0"	7'-0"	1-3/4"	HM			4					
107B	D	HM	-	4'-0"	7'-0"	1-3/4"	HM			5					
108	E	SC	-	3'-0"	6'-8"	1-3/4"	HM			6					
111	F	-	-	36"	79"	-	-			7					
112	F	-	-	36"	79"	-	-			7					
113	G	HM	-	2'-4"	7'-0"	1-3/4"	HM			8					
DOOR SCHEDULE NOTES															
1. PROVIDE PUSH/PULL PLATES, PROVIDE A SIGN w/ 1" HIGH LETTERS ON CONTRASTING BACKGROUND NEAR THE LOCKING DEVICE STATING: "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED"															

HARDWARE SETS		HINGES	LOCKSET	CLOSER	PUSH/PULL	KICKPLATE	THRESHOLD	WEATHERSTRIP	OTHER
NO.	TYPE								
1	ENTRY	OFFSET PIVOTS/DOOR MFR	1EA 9804 x 862 US32D / SA	1ea EN1431 PS X 1430D DROP PLATE CLOSER / SA		1ea K1050 10" X 2" LDW 630 KICKPLATE / 1ea K1050 4" X 1" LDW MOP PLATE / RO	1ea ALUMINUM THRESHOLD 2005 AV/PE	1ea 345AV DOOR SWEEP / PE	1ea 4089 130 INDICATOR / AR
2	TOILET	3ea TA2714 4.5 X 4.5 652 HINGES / MK	1 EA 28-10U65 LL 626 PRIVACY SET / SA	1ea EN1431 UO CLOSER / SA					1ea 409 630 WALL STOP, 3ea 608 SILENCERS / RO, 1ea 2248A FINGER GUARD / NGP
3	SERVICE	3ea TA2714 4.5 X 4.5 652 HINGES / MK	1 EA 70-485 626 DEADBOLT / SA	1ea EN1431 UO CLOSER / SA	1 EA 70C 4X16 630 PUSH PLATE / 1 EA 110 x 70C 630 PULL PLATE / RO	1ea K1050 10" X 2" LDW 630 KICKPLATE / RO			1ea 590S 626 OH STOP / SA, 3ea 608 SILENCERS / RO
4	EXIT	3 EA T4A3386 4.5 X 4.5 630 NRP HINGES / MK	1 EA 70 8804 FSW 630 EXIT DEVICE/SA	1ea EN1431 PS CLOSER / SA		1 EA K1050 34" X 2" LDW 630 ARMOR PLATE / RO	1 EA ALUMINUM THRESHOLD 2005 AV/PE	1 EA 303AV WEATHERSTRIP, 1 EA 346C RAIN DRIP, 1 EA 345AV SWEEP/PE	1 EA 622 x 626 DOOR VIEWER / RO
5	LG EXIT	3 EA T4A3386 5 X 4.5 630 NRP HINGES / MK	1 EA 70 8804 FSW 630 EXIT DEVICE/SA	1ea EN1431 PS CLOSER / SA		1 EA K1050 34" X 2" LDW 630 ARMOR PLATE / RO	1 EA ALUMINUM THRESHOLD 2005 AV/PE	1 EA 303AV WEATHERSTRIP, 1 EA 346C RAIN DRIP, 1 EA 345AV SWEEP/PE	1 EA 622 x 626 DOOR VIEWER / RO
6	OFFICE	3ea TA2714 4.5 X 4.5 652 HINGES / MK	1 EA 28-70-10G05LL 626 OFFICE LOCK / SA						1ea 690S 626 OH STOP / SA, 3ea 608 SILENCERS / RO
7	COOLER	PRE-FAB COOLER DOOR	PROVIDE INSULATED DOORS W/ HARDWARE, TEMPERATURE GAUGE, HEATING COIL, KICKPLATES & CLOSER						
8	CLOSET	3 EA T4A3386 4.5 X 4.5 630 NRP HINGES / MK	1 EA 28-70-10G04 LL 626 STOREROOM LOCK / SA	1ea EN1431 PS CLOSER / SA		1ea K1050 10" X 2" LDW 630 KICKPLATE / RO	1 EA ALUMINUM THRESHOLD 2005 AV/PE	1 EA 303AV WEATHERSTRIP, 1 EA 346C RAIN DRIP, 1 EA 345AV SWEEP/PE	
9	ENTRY	OFFSET PIVOTS/DOOR MFR	1EA 9804 x 862 US32D / SA	1ea EN1431 CPS X 1430D DROP PLATE CLOSER / SA			1ea ALUMINUM THRESHOLD 2005 AV/PE	1ea 345AV DOOR SWEEP / PE	
MANUFACTURERS LISTED:		MK - MCKINNEY I.D.C. - INTERNATIONAL DOOR CLOSERS		SA - SARGENT FALCON	AR - ADAMS RITE	RO - ROCKWOOD	PE-PEMCO	NO-NORTON	NGP-NATIONAL GUARD PRODUCT

All permanent locks shall be 6 pin interchangeable Core provided and installed by the owner. Contractor to provide temporary cylinders for construction period.



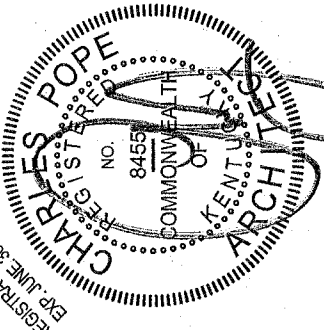
3 DRIVE-THRU WINDOW OPERATION
SCALE: NTS

REVISIONS:

DOOR SCHEDULE & DOOR & WINDOW ELEVATIONS

BURGER KING
STORE #
Versailles Road
Frankfort, KY 40601

JAN 06 2022



Charles William Pope
& Associates
ARCHITECTURE, PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

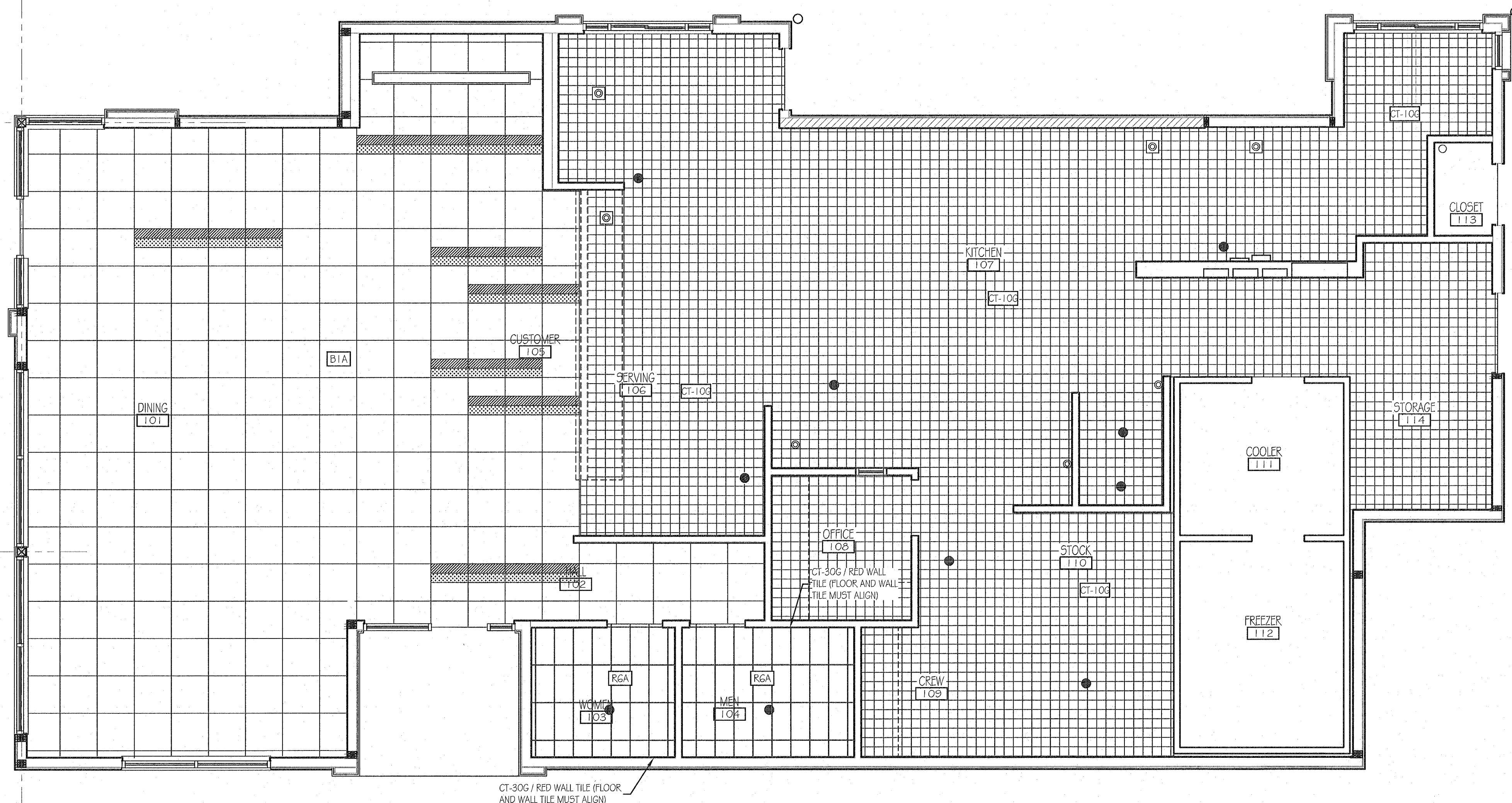
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JOB NO: 44387
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SHEET NUMBER:

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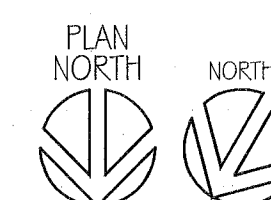
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DESCRIPTION: BURGER KING - Vers
DRAWING SCALE: 1/4" = 1'-0"
PLOT SCALE: 1:48

SEE FINAL/APPROVED DECOR PLANS BY
DECOR VENDOR FOR FINAL FINISHES & DECOR



CT-30G / RED WALL TILE (FLOOR
AND WALL TILE MUST ALIGN)

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

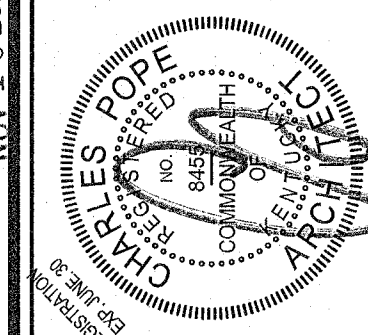


DATE: 11.18.21
JOB NO: 44387
DRAWN BY: *[Signature]*
SHEET NUMBER:

5.3

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NOV 18 2021



**Charles
William
Pope**
& Associates

ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216
(512) 381-1100

DATE: 11.18.21

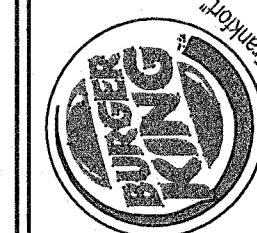
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5.3

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FINISH FLOOR PLAN



BURGER KING
STORE # Versailles Road
Frankfort KY 40601

REVISIONS

GENERAL

- A. USE THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, AND SHOP DRAWINGS.
- B. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL CONTRACT DOCUMENTS AND LATEST ADDENDA, AS WELL AS, SUBMITTING TO ALL SUBCONTRACTORS AND SUPPLIERS PRIOR TO SUBMITTING SHOP DRAWINGS.
- C. DO NOT SCALE DRAWINGS OR AUTO-DIMENSION ELECTRONIC FILES. NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES IN WRITING PRIOR TO FABRICATION OR CONSTRUCTION.
- D. COMPARE ALL CONTRACT DRAWINGS AND REPORT ANY DISCREPANCIES BETWEEN DISCIPLINES, AND WITHIN A GIVEN DISCIPLINE, TO THE ARCHITECT AND ENGINEER PRIOR TO FABRICATION AND ERECTION.
- E. IF A CONFLICT EXISTS AMONG THE STRUCTURAL DRAWINGS, GENERAL NOTES, THE STRICTEST REQUIREMENTS, AS INDICATED BY THE ENGINEER, GOVERNS.
- F. COORDINATE ALL ELEVATIONS AND DIMENSIONS, INCLUDING BUT NOT LIMITED TO, OPENINGS IN WALLS AND IN ROOF AND FLOOR SYSTEMS, WITH THE ARCHITECTURAL, PLUMBING, ELECTRICAL, AND MECHANICAL PLANS.
- G. VERIFY ALL DIMENSIONS, ELEVATIONS, AND ANY OTHER EXISTING CONDITIONS. NOTIFY THE ARCHITECT AND ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK, DURING THE CONSTRUCTION PROCESS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND TO PROTECT FROM DAMAGE ANY PORTIONS THAT REMAIN. THE SHORING AND BRACING SHOWN (IF ANY) IS A PARTIAL AND SCHEMATIC REPRESENTATION. DETERMINE THE ERECTION PROCEDURE TO ENSURE THE STABILITY AND SAFETY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION.
- H. THE COMPLETED LATERAL-FORCE RESISTING SYSTEMS (LFRS), INCLUDING THE DIAPHRAGMS, ARE REQUIRED TO RESIST LATERAL LOADS AND PROVIDE STABILITY UNDER GRAVITY LOADS. DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL BRACING DURING CONSTRUCTION TO MAINTAIN THE STABILITY AND SAFETY OF ALL STRUCTURAL ELEMENTS UNTIL THE LATERAL LOAD RESISTING OR STABILITY-PROVIDING SYSTEM IS COMPLETELY INSTALLED AND THE STRUCTURE IS COMPLETELY TIED TOGETHER.
- I. UNLESS NOTED OTHERWISE, DETAILS SHOWN ARE TYPICAL FOR ALL SIMILAR CONDITIONS.
- J. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS AND METHODS, AS WELL AS SAFETY PRECAUTIONS AND PROGRAMS.
- K. POAGE ENGINEERS & ASSOCIATES, INC. IS NOT RESPONSIBLE FOR ACTS OR OMISSION OF THE CONTRACTOR, NOR FAILURE TO PERFORM WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- L. PERIODIC SITE OBSERVATION BY BRITT, PETERS & ASSOCIATES, INC. IS FOR DETERMINING IF THE WORK IS PROCEEDING IN ACCORDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. STRUCTURAL OBSERVATIONS ARE NOT INTENDED AS QUALITY CONTROL (CONTRACTOR'S RESPONSIBILITY), QUALITY ASSURANCE (SPECIAL INSPECTOR'S RESPONSIBILITY), NOR TO CONFIRM THE QUALITY OR QUANTITY OF THE WORK.
- M. THE BUILDING OWNER IS RESPONSIBLE FOR PERIODIC MAINTENANCE TO ENSURE STRUCTURAL INTEGRITY. MAINTENANCE INCLUDES, BUT IS NOT LIMITED TO, STEEL/CONCRETE COATINGS, SEALANTS, CAULKED JOINTS, EXPANSION JOINTS, CONTROL JOINTS, SPALLS AND CRACKS IN CONCRETE, AND CLEANING OF EXPOSED STRUCTURAL ELEMENTS.

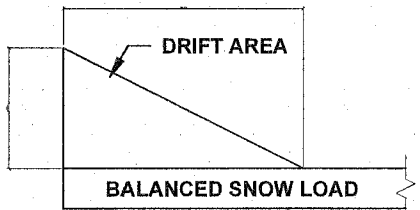
DESIGN CRITERIA

- A. STRUCTURAL DRAWINGS ARE BASED ON THE REQUIREMENTS OF THE 2018 KENTUCKY BUILDING CODE (IBC 2015) AND THE REFERENCED SECTIONS WITHIN.
- B. DEAD LOADS:
- | | (70 PSF TOTAL) |
|---------------------------|----------------|
| 1. SLAB ON GRADE: | |
| a. STRUCTURE | 50 PSF |
| b. MISCELLANEOUS | 15 PSF |
| c. FINISHES | 5 PSF |
| 2. ROOF SYSTEM: | (25 PSF TOTAL) |
| a. STRUCTURE | 8 PSF |
| b. MEP | 7 PSF |
| c. INSULATION AND ROOFING | 10 PSF |
- C. LIVE LOADS ARE BASED ON THE MORE RESTRICTIVE OF THE UNIFORM LOAD OR THE CONCENTRATED LOAD LISTED ACTING OVER A 6.25 SQUARE FOOT AREA. LIVE LOADS HAVE BEEN REDUCED AS PRESCRIBED IN THE AFOREMENTIONED BUILDING CODE.

LIVE LOADS		
CATEGORY	UNIFORM LOAD (PSF)	CONCENTRATED LOAD (LBS)
DINING ROOMS/RESTAURANTS	100	
KITCHEN	150	
ROOFS: ALL ROOF SURFACES SUBJECT TO WORKERS		300
ROOFS: ORDINARY ROOF	20	

- D. DESIGN SNOW LOADS:
- | | P _G | 15 PSF |
|----------------------------|----------------|-----------|
| 1. GROUND SNOW LOAD: | P _G | 16 PSF |
| 2. FLAT ROOF SNOW LOAD: | P _E | 1.0 |
| 3. SNOW EXPOSURE FACTOR: | C _E | 1.0 |
| 4. SNOW THERMAL FACTOR: | C _T | 1.0 |
| 5. SLOPE FACTOR: | C _S | 1.0 |
| 6. SNOW IMPORTANCE FACTOR: | I _S | 1.0 |
| 7. DRIFT SURCHARGE: | P _d | SEE TABLE |
| 8. SNOW DRIFT WIDTH: | W | SEE TABLE |
| 9. RAIN-ON-SNOW SURCHARGE: | | 5 PSF |

SNOW DRIFT DIAGRAM		
BALANCED SNOW LOAD: 15 PSF		
DRIFT AREA	DRIFT SURCHARGE	DRIFT WIDTH
A	20 PSF TO 0 PSF	7'-3"
B	24 PSF TO 0 PSF	5'-10"



- E. DESIGN WIND LOADS:
- | | V _{ULT} | 115 MPH (3-SEC GUST) |
|---|---|----------------------|
| 1. BASIC WIND SPEED: | V _{ASD} <td>90 MPH (3-SEC GUST)</td> | 90 MPH (3-SEC GUST) |
| 2. BASIC WIND SPEED: | II <td></td> | |
| 3. RISK CATEGORY: | B <td></td> | |
| 4. WIND EXPOSURE: | GC _{PI} <td>±0.18</td> | ±0.18 |
| 5. INTERNAL PRESSURE COEFF: | | |
| 6. COMPONENTS & CLADDING WIND PRESSURES (ULTIMATE): | | |
- F. SEISMIC LOADS:
- | | II | 1.0 |
|---|-----------------|--------------------------|
| 1. RISK CATEGORY: | I _S | 0.178 |
| 2. SEISMIC IMPORTANCE FACTOR: | S ₁ | 0.092 |
| 3. SHORT PERIOD SPECTRAL RESPONSE ACCELERATION: | D | |
| 4. 1-SEC PERIOD SPECTRAL RESPONSE ACCELERATION: | S _{D8} | 0.19 |
| 5. SITE CLASS: | S _{D1} | 0.147 |
| 6. SHORT PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION: | C | |
| 7. 1-SEC PERIOD DESIGN SPECTRAL RESPONSE ACCELERATION: | | |
| 8. SEISMIC DESIGN CATEGORY: | | |
| 9. BASIC SEISMIC-FORCE RESISTING SYSTEM: | | |
| 10. LIGHT-FRAME (WOOD) LOAD-BEARING WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR SHEAR RESISTANCE | V | 0.029 x W |
| 11. DESIGN BASE SHEAR: | C _s | 0.029 |
| 12. RESPONSE MODIFICATION FACTOR: | R | 5.5 |
| 13. ANALYSIS PROCEDURE: | | EQUIVALENT LATERAL FORCE |
| G. VERIFY ALL MECHANICAL EQUIPMENT WEIGHTS, LOCATIONS AND ASSOCIATED OPENINGS WITH THE MECHANICAL CONTRACTOR AND SUBMIT INFORMATION PRIOR TO FABRICATION OF THE SUPPORTING STRUCTURE. NOTIFY THE ENGINEER IF THE ACTUAL WEIGHT EXCEEDS THE WEIGHT INDICATED ON THE STRUCTURAL DRAWINGS. | | |

FOUNDATIONS

- A. FOUNDATION DESIGN IS BASED ON THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT BY GEOTECHNOLOGY, INC DATED JULY 18-2017 TITLED RZESZUTKO AND DACOSE PROPERTIES (GEOTECHNICAL PROJECT NO. J028979.01).
- B. FOUNDATIONS HAVE BEEN DESIGNED USING A NET SOIL BEARING PRESSURE OF 2,000 PSF.
- C. REVIEW THE GEOTECHNICAL REPORT AND ADHERE TO ALL RECOMMENDATIONS WITHIN, INCLUDING CUT, SUBGRADE PREPARATION, FILL, ETC.
- D. ALL SOILS WORK, INCLUDING BACKFILL OF UTILITY TRENCHES AND THE VERIFICATION OF BEARING CAPACITY MUST BE UNDER THE DIRECTION OF A QUALIFIED GEOTECHNICAL ENGINEER. PROXIMITY OF UTILITY TRENCHES TO BUILDING FOUNDATION SYSTEM MUST BE AS APPROVED BY THE GEOTECHNICAL ENGINEER TO ENSURE INTEGRITY OF THE BEARING SOILS.
- E. ALL FOUNDATIONS BEAR ON UNDISTURBED EARTH OR ENGINEERED FILL AT ELEVATIONS SHOWN ON PLANS AND DETAILS. COORDINATE FINAL TOP OF FOOTING ELEVATIONS WITH THE ARCHITECTURAL ELEVATIONS, MEP DRAWINGS AND CIVIL GRADING PLANS PRIOR TO PLACEMENT. FOUNDATION STEPS INDICATED ARE APPROXIMATE, UNLESS NOTED OTHERWISE, AND MUST BE FIELD COORDINATED. THE BOTTOM OF EXTERIOR FOUNDATION ELEVATIONS MUST BE BELOW THE FROST DEPTH ELEVATION 24" MEASURED FROM EXTERIOR FINISHED GRADE.
- F. BEAR FLOOR SLABS ON 4 INCH MINIMUM DRAINAGE COURSE (COMPACTED STONE) UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT OR DRAWINGS. PLACE THE VAPOR RETARDER BETWEEN THE DRAINAGE COURSE AND THE SLAB. VAPOR RETARDER IS ASTM E1745, CLASS B, 10 MIL UNLESS NOTED OTHERWISE. PLACE, PROTECT AND REPAIR PER ASTM E1643 AND MANUFACTURER'S INSTRUCTIONS.
- G. DO NOT INSTALL FOUNDATION CONCRETE UNTIL ALL FOUNDATION WORK HAS BEEN COORDINATED WITH UNDERGROUND UTILITIES. NOTIFY THE ENGINEER OF ALL CONFLICTS BETWEEN FOUNDATIONS AND UTILITIES.
- H. ALL FOUNDATIONS, OR PORTIONS THEREOF BELOW GRADE, MAY BE EARTH FORMED BY NEAT EXCAVATIONS. DO NOT PLACE FOUNDATIONS, SLABS, OR OTHER CONCRETE ON FROZEN SUBGRADE OR IN STANDING WATER.
- I. CENTER ALL FOUNDATIONS ON WALLS AND/OR COLUMNS. UNLESS NOTED OTHERWISE.
- J. DETERMINE THE EXTENT OF CONSTRUCTION DEWATERING REQUIRED FOR THE EXCAVATIONS. SUBMIT THE PROPOSED CONSTRUCTION DEWATERING PLAN TO THE GEOTECHNICAL ENGINEER FOR REVIEW PRIOR TO EXCAVATION.

CONCRETE

- A. CONCRETE MUST CONFORM TO THE CONCRETE PROPERTIES SPECIFIED IN THE CONCRETE PROPERTIES TABLE.
- B. CONCRETE MUST HAVE ALLOWABLE UNIT SHRINKAGE OF 0.045% AT 28 DAYS. (SEE ASTM C157)
- C. SLABS TO RECEIVE MOISTURE SENSITIVE FLOOR COVERINGS MUST HAVE MAXIMUM WATER/CEMENTITIOUS MATERIAL RATIO OF 0.45.
- D. CONCRETE CONSTRUCTION MUST CONFORM TO THE CURRENT "AC MANUAL OF CONCRETE PRACTICE".
- E. CONCRETE MATERIALS MUST CONFORM TO THE FOLLOWING SPECIFICATIONS:
1. PORTLAND CEMENT: ASTM C150, TYPE I OR II
 2. AGGREGATE (NORMAL WEIGHT): ASTM C33
 3. ALL REINFORCEMENT MUST CONFORM TO THE FOLLOWING SPECIFICATIONS:
- F. ALL REINFORCING UNO: ASTM A615 GRADE 60
1. WELDED WIRE REINFORCEMENT (WWR):
 - a. SMOOTH WIRE: ASTM A1028 (85 KS)
 - b. DEFORMED WIRE: ASTM A1064 (70 KS)
 - c. POLYPROPYLENE FIBRILLATED FIBER MAY BE USED TO SUBSTITUTE WWR IN SLABS ON GRADE WHEN ADDED TO CONCRETE MIX ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDED DOSAGES.
- G. REINFORCEMENT DETAILS:
1. DETAIL AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI 315.
 2. DEVELOPMENT AND SPLICE LENGTHS ARE IN TENSION UNLESS NOTED OTHERWISE. REFER TO THE REINFORCING BAR LAP LENGTH SCHEDULE IN DETAIL SHEETS.
 3. LAP WWR ONE CROSSWIRE SPACING PLUS 2".
 4. INSTALL CORNER BARS AT ALL FOOTINGS AND WALL INTERSECTIONS TO MATCH HORIZONTAL REINFORCING SIZE AND SPACING. AT INTERSECTIONS OF CONTINUOUS SPREAD FOOTINGS, EXTEND ALL BARS TO FAR SIDE OF INTERSECTING FOOTING.
 5. INSTALL AND SECURE REINFORCEMENT TO PREVENT DISPLACEMENT DURING CONCRETE PLACEMENT. PROVIDE THE FOLLOWING CONCRETE COVER FOR REINFORCING, UNLESS SPECIFICALLY NOTED OTHERWISE:
- a. CAST AGAINST EARTH: 3"
 - b. EXPOSED TO EARTHWEATHER: #6 THRU #18 2" #5 & SMALLER 1 1/2"
 - c. EXPOSED TO EARTHWEATHER: #5 & SMALLER 1 1/2"
- H. INSTALL DOWELS TO MATCH REINFORCEMENT SIZE AND SPACING INDICATED, UNLESS NOTED OTHERWISE.
- I. CAST FOUNDATION WALLS, GRADE BEAMS AND FOOTINGS IN ALTERNATE PANELS NOT TO EXCEED 60'-0" IN LENGTH. INSTALL SHEAR KEYS AT EACH CONSTRUCTION JOINT AND LOCATED AT 1/3 POINTS OF SPANS.
- J. DO NOT USE HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE. JOINTS UNLESS SHOWN ON THE DRAWINGS. THE ENGINEER MUST APPROVE ALL DEVIATIONS OR ADDITIONAL JOINTS IN WRITING.
- K. CAST SLABS AND BEAMS/JOISTS MONOLITHICALLY UNLESS NOTED OTHERWISE.
- L. CHAMFER ALL PERM CONCRETE EXPOSED CONCRETE EDGES 3/4 INCH, UNLESS NOTED OTHERWISE.
- M. REFERENCE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATIONS OF OPENINGS AND SLEEVES IN CONCRETE WALLS AND SUPPORTED FLOORS. SPREAD REINFORCEMENT AT OPENINGS AND SLEEVES UNLESS OTHERWISE INDICATED. DO NOT CUT REINFORCEMENT.
- N. SLOPE CONCRETE SLABS TO FLOOR DRAINS SHOWN ON MECHANICAL, PLUMBING, CIVIL, AND ARCHITECTURAL DRAWINGS.
- O. BOND NEW CONCRETE TO HARDENED CONCRETE WITH A STRUCTURAL ADHESIVE BONDING AGENT PER ASTM C1059. INSTALL PER THE MANUFACTURER'S INSTRUCTIONS.
- P. NO HOLES OR OPENINGS THROUGH FOUNDATION WALLS AND/OR FOOTINGS WITHOUT ENGINEER'S APPROVAL.
- Q. DO NOT EMBED ALUMINUM IN CONCRETE.

CONCRETE PROPERTIES				
USAGE	STRENGTH (PSI)	TYPE	COMMENTS	DURABILITY CLASSIFICATION
ALL CONCRETE NOT OTHERWISE SPECIFIED	3500	NWT		F0, S0, W0, C1
FOOTINGS	3500	NWT		F0, S0, W0, C1
SLAB-ON-GRADE INTERIOR	3500	NWT		F0, S0, W0, C0

- CONCRETE PROPERTIES TABLE NOTES:
1. MINIMUM STRENGTH AND MAXIMUM DENSITY MEASURED AT 28 DAYS.
 2. NWT = NORMAL WEIGHT CONCRETE
 3. DURABILITY CLASSIFICATION INDICATES CONCRETE REQUIREMENTS BY EXPOSURE CLASS, REFER TO TABLE 19.3.2.1 OF ACI 318.

STRUCTURAL STEEL

- A. HOT ROLLED STEEL BARS, PLATES, SHAPES AND SHEET PILING MUST BE NEW STEEL CONFORMING TO ASTM A6. FABRICATE AND INSTALL STEEL IN ACCORDANCE WITH AISC 305 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
- B. STRUCTURAL STEEL IS AS FOLLOWS, UNLESS NOTED OTHERWISE:
1. WIDE FLANGE AND W1-SHAPES: ASTM A992 F_y = 50 KSI
 2. RECTANGULAR AND SQUARE HSS: ASTM A500, GRADE B F_y = 46 KSI
 3. ALL OTHER STRUCTURAL STEEL: ASTM A36 F_y = 36 KSI
 4. ANCHOR RODS: ASTM F1554, GRADE 36
 5. ASTM A572 GRADE 50 IS ACCEPTABLE AS A SUBSTITUTE FOR A992.
- C. CENTER COLUMNS AND BEAMS ON GRID LINES UNLESS NOTED OTHERWISE.
- D. STEEL CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE REFERENCED DESIGN CRITERIA.
- E. BOLT CONNECTIONS (UNLESS OTHERWISE NOTED OR REQUIRED):
1. BOLTS - ASTM F3125, GRADE A325
 2. WASHERS - ASTM F436, TYPE 1
 3. NUTS - ASTM A303, GRADE D1
 4. CONNECT A MINIMUM OF ONE-HALF (1/2) THE DEPTH OF THE MEMBER
 5. UNLESS NOTED OTHERWISE, BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF PRETENSIONING, USE BEARING CONNECTIONS WITH THREADS INCLUDED FOR ALL OTHER CONNECTIONS.
- F. WELD CONNECTIONS (UNLESS NOTED OTHERWISE):
1. WELDING IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL".
 2. USE E70XX (SMW), F7XX-EXXX (SAW), E70S-X (GMAW), OR E7XT-X (FCW) ELECTRODES FOR WELDING, UNLESS NOTED OTHERWISE.
 3. SHOW ALL FIELD WELDS REQUIRED ON ERECTION DRAWINGS.
 4. USE CONTINUOUS 1/4" FILLET WELDS UNLESS NOTED OTHERWISE.
- G. CUTS INDICATED ON THE DRAWINGS, OR AS REQUIRED FOR OTHER TRADES, MUST BE MADE IN THE SHOP AND SHOWN ON THE SHOP DRAWINGS. FIELD PERFORMED HOLES OR CUTS ARE NOT PERMITTED WITHOUT ENGINEER APPROVAL.
- H. INSTALL NONMETALLIC SHRINKAGE-RESISTANT GROUT BELOW BASE PLATES, IN ACCORDANCE WITH ASTM C1107 AND A MINIMUM STRENGTH OF 6,000 PSI.
- I. FABRICATE STRUCTURAL STEEL WITH ONE COAT OF SHOP PRIMER EXCEPT THE FOLLOWING MEMBERS: GALVANIZED SURFACES, SLIP-CRITICAL SURFACES, SURFACES TO BE FIELD WELDED, SURFACES TO RECEIVE FIRE PROOFING, OR UNLESS NOTED OTHERWISE. COORDINATE AREAS TO BE FIREPROOFED WITH ARCHITECTURAL DRAWINGS PRIOR TO FABRICATION.
- J. GALVANIZED STRUCTURAL STEEL: ASTM A103 OR ASTM A153. GALVANIZE AFTER FABRICATION. GALVANIZE ALL EXTERIOR EXPOSED STEEL, UNLESS NOTED OTHERWISE. REPAIR DAMAGED GALVANIZED COATINGS IN ACCORDANCE WITH ASTM A780.
- K. UNLESS NOTED OTHERWISE, THE TOP OF ALL STEEL COLUMNS ARE FABRICATED WITH A STEEL CAP PLATE - MINIMUM CAP PLATE DIMENSIONS MATCH COLUMN WIDTH AND DEPTH, AND MINIMUM THICKNESS OF CAP PLATE EQUALS COLUMN WEB THICKNESS (1/2" MIN).
- L. COORDINATE THE EXACT LOCATION AND SIZE OF ALL OPENINGS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION.
- M. REFERENCE THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL STEEL (IF ANY) NOT INDICATED ON THE STRUCTURAL DRAWINGS.

ROUGH CARPENTRY

- A. GENERAL
1. LUMBER:
 - a. GRADING PER DOC PS 20 AND APPLICABLE GRADING AGENCY RULES. FACTORY MARK EACH PIECE WITH GRADING AGENCY GRADE STAMP.
 - b. MAXIMUM MOISTURE CONTENT: 19%.
 - c. PROTECT MATERIALS FROM WEATHER
 - d. SORT AND SELECT LUMBER SO NATURAL CHARACTERISTICS DO NOT INTERFERE WITH INSTALLATION OR FASTENING.
 - e. PASS PLUMBING AND CONDUIT THROUGH HOLES, NOT NOTCHES, IN STUDS, SILLS AND PLATES. CENTER HOLES IN THE MEMBER DEPTH. USE GALVANIZED NAIL STOPPERS (16 GAGE MIN) ON BOTH FACES OF BORED MEMBERS IN ACCORDING WITH THE GOVERNING PLUMBING/ELECTRICAL CODE.
 - f. PRESERVATIVE TREATMENT PROCESS: AWPA U1
 - g. CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND
 - h. CATEGORY UC2h FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND
 - i. CATEGORY UC4a FOR ITEMS IN CONTACT WITH GROUND
 - j. CHEMICALS USED MUST BE ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND NOT CONTAIN ARSENIC, CHROMIUM, NOR AMMONIA-CAL COPPER ZINC ARSENATE (ACZA). DO NOT USE INORGANIC BORON (SBX) FOR SILL PLATES.
 - k. KILN-DRY AFTER TREATMENT TO A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.
 - l. MARK LUMBER WITH TREATMENT QUALITY MARK OF AN INSPECTION AGENCY APPROVED BY THE ALSO BOARD. UNLESS NOTED OTHERWISE, INSTALL PT LUMBER AS FOLLOWS:
 - m. EXTERIOR LOCATIONS.
 - n. WOOD MEMBERS IN CONTACT WITH MASONRY, MORTAR, GROUT OR CONCRETE
 - o. WOOD FRAMING MEMBERS LESS THAN 10 INCHES ABOVE GROUND IN CRAWLSPACES OR UNEXCAVATED AREAS.
- B. DIMENSIONAL LUMBER
1. UNLESS NOTED OTHERWISE: SOUTHERN PINE NO.2 OR BETTER, SPIB
 2. EXTERIOR WALLS: SOUTHERN PINE NO.2 OR BETTER, SPIB; OR SPRUCE PINE FIR, NO.1 OR BETTER, NLGA
 3. FASTENERS
 - a. NAILS, BRADS, AND STAPLES: ASTM F1667
 - b. STAGGER FASTENERS TO PREVENT SPLITTING, INCLUDING PARALLEL TO GRAIN SPLITTING.
 - c. FASTENERS USED IN PROXIMITY TO SALT/WATER SPRAY ARE MANUFACTURED FROM TYPE 316 STAINLESS STEEL OR HOT DIP GALVANIZED.
 - d. AS A MINIMUM, FASTEN ALL WOOD FRAMING TO COMPLY WITH THE "FASTENING SCHEDULE" OF THE REFERENCED BUILDING CODE AND THE ICC-ES EVALUATION REPORT FOR FASTENERS.
 - e. USE STEEL COMMON NAILS UNLESS NOTED OTHERWISE.
 - f. STAGGER FASTENERS TO PREVENT SPLITTING, INCLUDING PARALLEL TO GRAIN SPLITTING.
 - g. FASTEN MULTI-PLY MEMBERS TOGETHER USING (3) ROWS OF 16d NAILS AT 12 INCHES OC, UNLESS NOTED OTHERWISE.
 - h. CONNECTORS
 - i. INSTALL CONNECTORS COMPLYING WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL FASTENERS THROUGH EACH FASTENER HOLE, UNLESS NOTED OTHERWISE.
 - j. CONNECTORS INDICATED ARE MANUFACTURED BY SIMPSON STRONG-TIE, INC. CONNECTORS BY OTHER MANUFACTURERS MAY BE USED IF THEY ARE EQUAL TO OR BETTER THAN THE CONNECTOR SPECIFIED. USE MANUFACTURER'S RECOMMENDED FASTENERS, UNLESS NOTED OTHERWISE.
 - k. CONNECTORS HAVE A MINIMUM CORROSION PROTECTION OF G90 GALVANIZATION COMPLYING WITH ASTM A653.
 - l. CONNECTORS IN CONTACT WITH PRESSURE TREATED OR FIRE TREATED LUMBER ARE MANUFACTURED FROM SIMPSON ZMAX (516S GALVANIZED) STEEL, COMPLYING WITH ASTM A653.
 - m. CONNECTORS IN PROXIMITY TO SALT/WATER SPRAY ARE MANUFACTURED FROM TYPE 316 STAINLESS STEEL OR HOT DIP GALVANIZED TO ASTM STANDARD A123 - CLASS C.
- C. ERECTION TOLERANCES
1. FRAMING MEMBERS COVERED BY FINISHES SUCH AS WALLBOARD, PLASTER OR CERAMIC TILE SET IN A MORTAR SETTING BED, MUST BE WITHIN THE FOLLOWING LIMITS:
 - a. LAYOUT OF WALLS AND PARTITIONS: 1/4 INCH FROM THE INTENDED POSITION
 - b. PLATES AND RUNNERS: 1/4 INCH IN 8 FEET FROM A STRAIGHT LINE
 - c. STUDS: 1/4 INCH IN 8 FEET OUT OF PLUMB, NOT CUMULATIVE
 - d. FACE OF FRAMING MEMBERS: 1/4 INCH IN 8 FEET FROM A TRUE PLANE
 - e. FRAMING MEMBERS COVERED BY CERAMIC TILE SET IN DRY-SET MORTAR, LATEX-PORTLAND CEMENT MORTAR OR ORGANIC ADHESIVE MUST BE WITHIN THE FOLLOWING LIMITS:
 - a. LAYOUT OF WALLS AND PARTITIONS: 1/4 INCH FROM THE INTENDED POSITION
 - b. PLATES AND RUNNERS: 1/8 INCH IN 8 FEET FROM A STRAIGHT LINE
 - c. STUDS: 1/8 INCH IN 8 FEET OUT OF PLUMB, NOT CUMULATIVE
 - d. FACE OF FRAMING MEMBERS: 1/8 INCH IN 8 FEET FROM A TRUE PLANE
- D. WALL CONSTRUCTION
1. UNLESS NOTED OTHERWISE USE SINGLE BOTTOM PLATE AND DOUBLE TOP PLATES USING 2x MEMBERS WITH WIDTHS EQUAL TO THE WALL STUDS. FASTEN PLATES TO SUPPORTING CONSTRUCTION. SPLICE TOP PLATES WITHIN THE CENTER THIRD OF THE TOTAL WALL LENGTH WITH 4'-0" FOOT MINIMUM LAP, UNLESS NOTED OTHERWISE.
 2. EXTERIOR WALLS: 2x STUDS AT 16 INCHES OC MAX SPACING, UNLESS NOTED OTHERWISE
 3. INSTALL HORIZONTAL BLOCKING AT WALL MIDHEIGHT. BLOCKING IS 2x MEMBERS WITH WIDTHS EQUAL TO THE STUDS.
 4. CONSTRUCT CORNERS AND INTERSECTIONS WITH THREE OR MORE STUDS.
 5. FRAME WALL OPENINGS WITH MULTIPLE JAMBS STUDS AND HEADERS AS INDICATED. INSTALL HEADER MEMBERS WITH THICKNESS EQUAL TO WIDTH OF THE WALL STUDS.

WOOD SHEATHING

- A. GENERAL
1. WOOD SHEATHING REFERS TO WOOD STRUCTURAL PANELS, OF EITHER PLYWOOD OR ORIENTED STRAND BOARD (OSB).
 2. WOOD SHEATHING IS APA-RATED SHEATHING, COMPLYING WITH PRODUCT STANDARD DOC PS1 OR DOC PS2. WOOD SHEATHING MANUFACTURED BY A MEMBER OF THE AMERICAN PLYWOOD ASSOCIATION (APA).
 3. PROTECT WOOD SHEATHING FROM WEATHER AND PROVIDE FOR AIR CIRCULATION AROUND STACKS AND UNDER COVERINGS.
 4. PANELS MUST HAVE FACTORY MARKS INDICATING COMPLIANCE WITH APPLICABLE STANDARDS.
 5. THICKNESS NOT LESS THAN INDICATED, AND AS REQUIRED TO COMPLY WITH SPECIFIED REQUIREMENTS.
 6. INSTALL SHEATHING WITH THE STRENGTH DIRECTION (TYPICALLY LONG DIMENSION) PERPENDICULAR TO FRAMING AND WITH END JOINTS STAGGERED.
 7. DO NOT USE MATERIALS WITH DEFECTS IMPAIRING THE QUALITY OF SHEATHING OR PIECES TOO SMALL TO USE WITH MINIMUM NUMBER OF JOINTS. LAYOUT PANELS TO SPAN BETWEEN AT LEAST THREE SUPPORT MEMBERS.
 8. COORDINATE SHEATHING INSTALLATION WITH FLASHING AND JOINT-SEALANT INSTALLATION SO MATERIALS ARE INSTALLED IN A SEQUENCE AND MANNER PREVENTING EXTERIOR MOISTURE FROM PASSING THROUGH THE COMPLETED ASSEMBLY.
 9. DO NOT BRIDGE BUILDING EXPANSION JOINTS.
 10. WHERE EITHER 2 INCH OR 2 1/2 INCH FASTENER SPACINGS ARE SPECIFIED TO 2 INCH OR LESS FRAMING MEMBERS, THE FRAMING MEMBER AT ADJOINING PANEL EDGES MUST BE 1/2 INCH WIDE OR GREATER. STAGGER FASTENERS AT PANEL EDGES IN TWO LINES.
- B. WALL SHEATHING
1. SPAN RATING: NOT LESS THAN 32/16
 2. NOMINAL THICKNESS: NOT LESS THAN 1/2 INCH
 3. EXPOSURE AND DURABILITY CLASSIFICATION: EXPOSURE 1
 4. FASTENING METHOD, UNLESS NOTED OTHERWISE:
 - a. FASTENERS: 10d RING SHANK NAILS
 - b. BOUNDARY EDGE SPACING: 6 INCHES OC
 - c. PANEL EDGE SPACING: 6 INCHES OC
 - d. FIELD SPACING: 12 INCHES OC
- C. REFERENCE SHEARWALL DETAILS FOR SHEARWALL SHEATHING FASTENING, BLOCKING AND OTHER DETAILS.
- D. ROOF SHEATHING
1. SPAN RATING: NOT LESS THAN 40/20
 2. NOMINAL THICKNESS: NOT LESS THAN 5/8 INCH
 3. EXPOSURE AND DURABILITY CLASSIFICATION: EXPOSURE 1
 4. FASTENING METHOD, UNLESS NOTED OTHERWISE:
 - a. FASTENERS: 8d RING SHANK NAILS
 - b. BOUNDARY EDGE SPACING: 4 INCHES OC
 - c. PANEL EDGE SPACING: 6 INCHES OC
 - d. FIELD SPACING: 12 INCHES OC
- E. UNLESS NOTED OTHERWISE, INSTALL BLOCKING AT ALL SHEATHING EDGES AND FASTEN SHEATHING EDGES TO BLOCKING ACCORDING TO PANEL EDGE SPACING.
- F. FASTENERS
1. AS A MINIMUM, FASTENING TO COMPLY WITH THE "FASTENING SCHEDULE" OF THE REFERENCED BUILDING CODE AND THE ICC-ES EVALUATION REPORT FOR FASTENERS.
 2. USE STEEL COMMON NAILS INTO WOOD FRAMING AND SCREWS INTO COLD-FORMED METAL FRAMING, UNLESS NOTED OTHERWISE.
 3. NAILS, BRADS, AND STAPLES: ASTM F1667
 4. SCREWS FOR FASTENING SHEATHING TO WOOD FRAMING: ASTM C1002.
 5. SCREWS FOR FASTENING SHEATHING TO COLD-FORMED METAL FRAMING: ASTM C854, EXCEPT WITH WAFER HEADS (MIN HEAD DIA=333 INCHES) AND REAMER WINGS, LENGTH AS RECOMMENDED BY SCREW MANUFACTURER.
 6. FOR ROOF, PARAPET, AND WALL SHEATHING, USE FASTENERS WITH HOT-DIP ZINC COATING COMPLYING WITH ASTM A153 OR TYPE 304 STAINLESS STEEL.
 7. FOR ROOF, PARAPET, AND WALL SHEATHING WITH ORGANIC-POLYMER OR OTHER CORROSION-PROTECTION COATINGS, USE FASTENERS WITH A SALT-SPRAY RESISTANCE OF MORE THAN 800 HOURS ACCORDING TO ASTM B117.

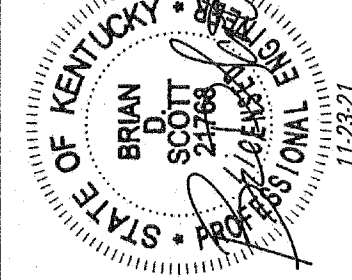
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STRUCTURAL NOTES

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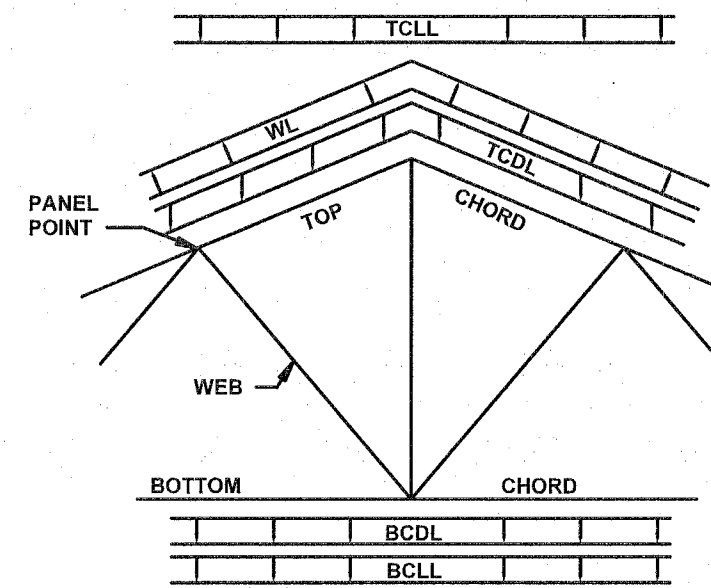
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OF

PREFABRICATED WOOD TRUSSES

- A. DESIGN TRUSSES IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION" (NDS) AND ITS "SUPPLEMENT", AS WELL AS THE TRUSS PLATE INSTITUTE (TPI). DESIGN TRUSSES FOR THE DESIGN CRITERIA INDICATED.
- B. FABRICATE, INSTALL AND BRACE TRUSSES IN ACCORDANCE WITH THE TRUSS PLATE INSTITUTE (TPI).
- C. SUBMIT SHOP DRAWINGS AND CALCULATIONS SEALED BY REGISTERED PROFESSIONAL ENGINEER, INCLUDING TRUSS LAYOUT, TRUSS PROFILES, INSTALLATION INSTRUCTIONS, DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. DESIGN TRUSSES USING "PIN" CONNECTION AT ONE SUPPORT AND "ROLLER" CONNECTION AT OTHER SUPPORT LOCATIONS. "PIN" IS DEFINED AS A SUPPORT RESISTING VERTICAL AND HORIZONTAL LOADS. "ROLLER" IS DEFINED AS RESISTING ONLY VERTICAL LOADS. DO NOT FABRICATE TRUSSES UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED AND RETURNED. DESIGN TRUSSES TO BEAR ONLY ON THE STRUCTURAL SUPPORT MEMBERS INDICATED.
- D. WOOD FRAMING MEMBERS: PS 30 "AMERICAN SOFTWOOD LUMBER STANDARD"
1. SOUTHERN PINE NO. 2 OR BETTER, SPIB
 2. 10 PERCENT MAXIMUM MOISTURE CONTENT
 3. SELECT FRAMING MEMBERS SO KNOTS OR OTHER WOOD IMPERFECTIONS DO NOT OCCUR AT PANEL POINTS/CONNECTOR PLATES
- E. METAL CONNECTOR PLATES, UNLESS NOTED OTHERWISE: ASTM A653 WITH G60 GALVANIZED COATING
- F. REFERENCE ROUGH CARPENTRY NOTES FOR WOOD-PRESERVATIVE-TREATED LUMBER.
- G. LIMIT TRUSS AND MEMBER DEFLECTIONS PER REFERENCED BUILDING CODE
- H. TRUSS TO TRUSS CONNECTIONS ARE BY THE TRUSS ENGINEER, WHERE MULTIPLE TRUSS PLIES ARE INDICATED, FASTEN TOGETHER AS INDICATED BY THE TRUSS MANUFACTURER.
- I. TRUSS CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY AND PERMANENT BRACING AS REQUIRED FOR SAFE ERECTION OF THE TRUSSES, OR AS RECOMMENDED BY THE MANUFACTURER AND TPI, IN ADDITION TO ANY BRACING INDICATED.
- J. DESIGN AND INSTALL BOTTOM CHORD BRACING WHERE CEILING SHEATHING DOES NOT ATTACH DIRECTLY TO TRUSS BOTTOM CHORD. COORDINATE EXTENTS OF CEILING SHEATHING WITH ARCHITECTURAL DRAWINGS.
- K. REFER TO THE ARCHITECTURAL DRAWINGS FOR TRUSS PROFILES. TRUSS PROFILES INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR SCHEMATIC PURPOSES ONLY. COORDINATE TRUSS WEB CONFIGURATION WITH THE ARCHITECTURAL AND MECHANICAL DRAWINGS. TRUSS MANUFACTURER MAY USE ALTERNATIVE TRUSS WEB CONFIGURATIONS SUBJECT TO APPROVAL OF THE ARCHITECT. ALIGN WEB MEMBERS IN ADJACENT TRUSSES OF THE SAME PROFILE TO PERMIT PASSAGE OF DUCTWORK.
- L. TRUSS ANCHORAGES AND HOLDOWNS ARE BASED ON TRUSS LAYOUT INDICATE. COORDINATE FINAL LOCATION OF GANGED STUDS AND HOLDOWNS WITH TRUSS SHOP DRAWINGS.
- M. INSTALL TRUSS HOLDOWNS PRIOR TO SHEATHING.
- N. DO NOT ALTER TRUSSES IN FIELD WITHOUT WRITTEN DIRECTION FROM TRUSS ENGINEER. DO NOT CUT, DRILL, NOTCH OR REMOVE TRUSS MEMBERS.
- O. TRUSS DIAGRAMS BELOW ARE FOR SCHEMATIC PURPOSES ONLY TO SHOW THE APPLICATION OF DESIGN LOADS. COMBINE LOADS PER THE REFERENCED BUILDING CODE.



ROOF TRUSS DESIGN CRITERIA

- TCDL = 18 PSF
TCLL = ROOF LIVE LOAD PER DESIGN CRITERIA
WL = WIND LOAD PER DESIGN CRITERIA
SL = SNOW LOAD (INCLUDING DRIFT) PER DESIGN CRITERIA
BCDL = 10 PSF
BCLL = 10 PSF

POST-INSTALLED ANCHORS

- A. ONLY USE POST-INSTALLED ANCHORS WHERE SPECIFIED ON THE DRAWINGS.
- B. OBTAIN APPROVAL FROM THE ENGINEER OF RECORD PRIOR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
- C. LOCATE EXISTING REBAR, REINFORCING AND ANCHORS PRIOR TO DRILLING. DO NOT DAMAGE OR DISTURB EXISTING REBAR, REINFORCING OR ANCHORS.
- D. INSTALL ANCHORS ACCORDING TO MANUFACTURER'S INSTRUCTIONS, INCLUDING BUT NOT LIMITED TO: EXPIRATION DATE, INSTALLATION TEMPERATURE, DRILLING METHOD, HOLE SIZE, HOLE DEPTH, HOLE CLEANING, MIXING PROCEDURE, ANCHOR INSTALLATION AND CURING. CONTACT THE MANUFACTURER PRIOR TO DRILLING IF TRAINING IS REQUIRED.
- E. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR MINIMUM EDGE DISTANCES AND SPACING.
- F. UNLESS NOTED OTHERWISE, EMBED ANCHORS IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE NOMINAL ANCHOR DIAMETER OR THE EMBEDMENT REQUIRED TO SUPPORT THE INTENDED LOAD.
- G. ADHESIVE ANCHOR DESIGN BOND STRENGTH IS BASED ON CRACKED CONCRETE, ACI 308.4 TEMPERATURE CATEGORY B, AND INSTALLATIONS INTO DRY HOLES DRILLED USING A HAMMER DRILL INTO CONCRETE CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS MUST BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 308.
- H. INSPECT ANCHOR INSTALLATION PER APPLICABLE BUILDING CODE AND SPECIAL INSPECTION REQUIREMENTS.
- I. SUBMIT SUBSTITUTION REQUESTS TO THE STRUCTURAL ENGINEER, INCLUDING CALCULATIONS PREPARED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER SHOWING THE SUBSTITUTED PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED BY THE BUILDING CODE.
- J. ACCEPTABLE PRODUCTS ARE:
1. CONCRETE MECHANICAL ANCHORS:
 - a. HILTI KB-TZ
 - b. HILTI KWIK HUS-EZ
 2. CONCRETE ADHESIVE ANCHORS:
 - a. HILTI RESO-SD
 - b. HILTI HY200
 - c. SIMPSON STRONG-TIE "SET-XP"
 - d. SIMPSON STRONG-TIE "AT-XP"
 3. MASONRY MECHANICAL ANCHORS:
 - a. SOLID GROUTED CMU
 - b. HILTI KWIK HUS-EZ
 - c. SIMPSON STRONG-TIE "TITEN-HD"
 - d. SIMPSON STRONG-TIE "STRONG-BOLT 2"
 - e. HOLLOW CMU:
 - f. SIMPSON STRONG-TIE "TITEN-HD"
 - g. SIMPSON STRONG-TIE "STRONG-BOLT 2"
 - h. MASONRY ADHESIVE ANCHORS:
 - a. SOLID-GROUTED CMU
 - b. SIMPSON STRONG-TIE "SET-XP"
 - c. SIMPSON STRONG-TIE "AT-XP"
 - d. HILTI HY270
 - e. HOLLOW CMU:
 - f. SIMPSON STRONG-TIE "SET"
 - g. HILTI HY270

SPECIAL INSPECTIONS AND TESTING

- A. SPECIAL INSPECTIONS AND TESTING ARE PERFORMED IN ACCORDANCE WITH IBC CHAPTER 17 AND LOCAL JURISDICTION PROVISIONS, BY AN INDEPENDENT INSPECTION AND TESTING AGENCY. THE SPECIAL INSPECTOR MUST OBSERVE AND TEST THE WORK FOR CONFORMANCE TO THE CONTRACT DOCUMENTS.
- B. THE SPECIAL INSPECTOR MUST FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND ALL OTHER DESIGNATED INDIVIDUALS. ALL DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF NOT CORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.
- C. THE SPECIAL INSPECTOR MUST SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK IS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE CONTRACT DOCUMENTS, SOILS REPORT AND APPLICABLE WORKMANSHIP OF THE BUILDING CODE.
- D. STATEMENT AND SCHEDULE OF SPECIAL INSPECTIONS IS PART OF THE CONTRACT DOCUMENTS.

SUBMITTALS

- A. CONTRACTOR MUST REVIEW AND STAMP ALL SHOP DRAWINGS BEFORE SUBMITTING FOR REVIEW. SUBMIT SHOP DRAWINGS TO THE ARCHITECT AND/OR ENGINEER FOR REVIEW. FABRICATE AND CONSTRUCT FROM THE REVIEWED SUBMITTALS. ALLOW 10 BUSINESS DAYS FOR EACH SUBMITTAL REVIEW UNLESS AN ALTERNATE REVIEW TIME IS AGREED UPON BY ALL PARTIES. IN THE EVENT MULTIPLE SUBMITTALS ARE SUBMITTED AT THE SAME TIME, THE CONTRACTOR MUST INDICATE WHICH SUBMITTALS HAVE PRIORITY.
- B. MAINTAIN A RECORD SET OF APPROVED SHOP DRAWINGS IN THE FIELD.
- C. SUBMIT IN WRITING ANY DEVIATION FROM, ADDITION TO, SUBSTITUTION FOR, OR MODIFICATION TO, THE STRUCTURE OR ANY PART OF THE STRUCTURE DETAILED, TO THE ENGINEER FOR REVIEW. SHOP DRAWINGS SUBMITTED FOR REVIEW DO NOT CONSTITUTE "IN-WRITING" UNLESS IT IS CLEARLY NOTED SPECIFIC CHANGES ARE BEING REQUESTED.
- D. PREPARE A LIST AND SCHEDULE OF ALL STRUCTURAL SUBMITTALS PRIOR TO CONSTRUCTION.
- E. SUBMIT THE FOLLOWING SHOP DRAWINGS FOR THE ENGINEER'S REVIEW:
1. CONCRETE MIX DESIGNS
 2. REINFORCING STEEL
 3. MISCELLANEOUS STEEL
 4. METAL AND FABRIC CANOPIES - CONNECTION TO BUILDING IS BY SUPPLIER (1, 3)
 5. STRUCTURAL STEEL, SHOP AND ERECTION DRAWINGS (1, 3)
 6. PREFABRICATED WOOD TRUSSES (1, 3)
- F. SUBMIT ITEMS MARKED (1) SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED. SUBMIT ITEMS MARKED (2) FOR OWNER'S RECORD ONLY AND WILL NOT HAVE THE ENGINEER'S SHOP DRAWING STAMP AFFIXED. SUBMIT ITEMS MARKED (3) WITH DESIGN CALCULATIONS SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED.
- G. THE OMISSION FROM THE SHOP DRAWINGS OF ANY MATERIALS REQUIRED BY THE CONTRACT DOCUMENTS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS OF WHETHER THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
- H. THE USE OF ELECTRONIC FILES OR REPRODUCTIONS OF CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONTRACTOR, ERECTOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF SHOP DRAWINGS SIGNIFIES ACCEPTANCE OF ALL INFORMATION SHOWN HEREON AS CORRECT, AND OBLIGATES THEM TO ANY JOB EXPENSE, REAL OR IMPLIED, ARISING DUE TO ANY ERRORS THAT MAY OCCUR HEREON.

SPECIAL INSPECTIONS PER CHAPTER 17 OF THE KENTUCKY BUILDING CODE

SECTION	ITEM	REQUIRED? YES NO	REMARKS
1704.2.5	FABRICATORS	<input checked="" type="checkbox"/>	FABRICATION OF WOOD TRUSSES PER SECTION 1704.2.5
1704.5.1	STRUCTURAL OBSERVATION FOR SEISMIC REQUIREMENTS	<input checked="" type="checkbox"/>	SEISMIC DESIGN CATEGORY "C"
1704.5.2	STRUCTURAL OBSERVATION FOR WIND REQUIREMENTS	<input checked="" type="checkbox"/>	Vasd = 89mph.
1705.2	STEEL	<input checked="" type="checkbox"/>	PER AISC 360 & TABLE 1705.2.2
1705.3	CONCRETE	<input checked="" type="checkbox"/>	PER TABLE 1705.3
1705.4	MASONRY	<input checked="" type="checkbox"/>	LEVEL B TMS 402/ACI 530/ASCE 5
1705.5	WOOD	<input checked="" type="checkbox"/>	PER SECTION 1705.5
1705.6	SOILS	<input checked="" type="checkbox"/>	PER TABLE 1705.6
1705.7	DRIVEN DEEP FOUNDATIONS	<input checked="" type="checkbox"/>	NONE
1705.8	CAST IN PLACE DEEP FOUNDATIONS	<input checked="" type="checkbox"/>	NONE
1705.9	HELICAL PILE FOUNDATIONS	<input checked="" type="checkbox"/>	NONE
1705.10.1	WIND - STRUCTURAL WOOD	<input checked="" type="checkbox"/>	NONE
1705.10.2	WIND - COLD FORMED STEEL FRAMING	<input checked="" type="checkbox"/>	NONE
1705.10.3	WIND - WIND RESISTING COMPONENTS	<input checked="" type="checkbox"/>	NONE
1705.11.1	SEISMIC - STRUCTURAL STEEL	<input checked="" type="checkbox"/>	SEISMIC DESIGN CATEGORY "C"
1705.11.2	SEISMIC - STRUCTURAL WOOD	<input checked="" type="checkbox"/>	PER SECTION 1705.10.1
1705.11.3	SEISMIC - COLD FORMED STEEL FRAMING	<input checked="" type="checkbox"/>	SEISMIC DESIGN CATEGORY "C"
1705.11.4	DESIGNATED SEISMIC SYSTEMS	<input checked="" type="checkbox"/>	NONE
1705.11.5	SEISMIC - ARCHITECTURAL COMPONENTS - INTERIOR/EXTERIOR NON-LOAD BEARING WALLS AND VENEER IN STRUCTURES	<input checked="" type="checkbox"/>	SEISMIC DESIGN CATEGORY "C"
1705.11.6	SEISMIC - MECHANICAL AND ELECTRICAL COMPONENTS	<input checked="" type="checkbox"/>	SEISMIC DESIGN CATEGORY "C"
1705.11.7	SEISMIC - STORAGE RACKS AND ACCESS FLOORS	<input checked="" type="checkbox"/>	NONE
1705.13	SPRAYED FIREPROOFING	<input checked="" type="checkbox"/>	NONE
1705.14	FIREPROOFING	<input checked="" type="checkbox"/>	NONE
1705.15	E.I.F.S.	<input checked="" type="checkbox"/>	NONE
1705.16	FIRE RESISTANT PENETRATIONS & JOINTS	<input checked="" type="checkbox"/>	NONE
1705.17	SMOKE CONTROL	<input checked="" type="checkbox"/>	NONE

REVISIONS:

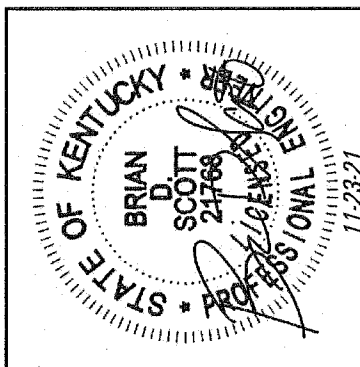
STRUCTURAL NOTES

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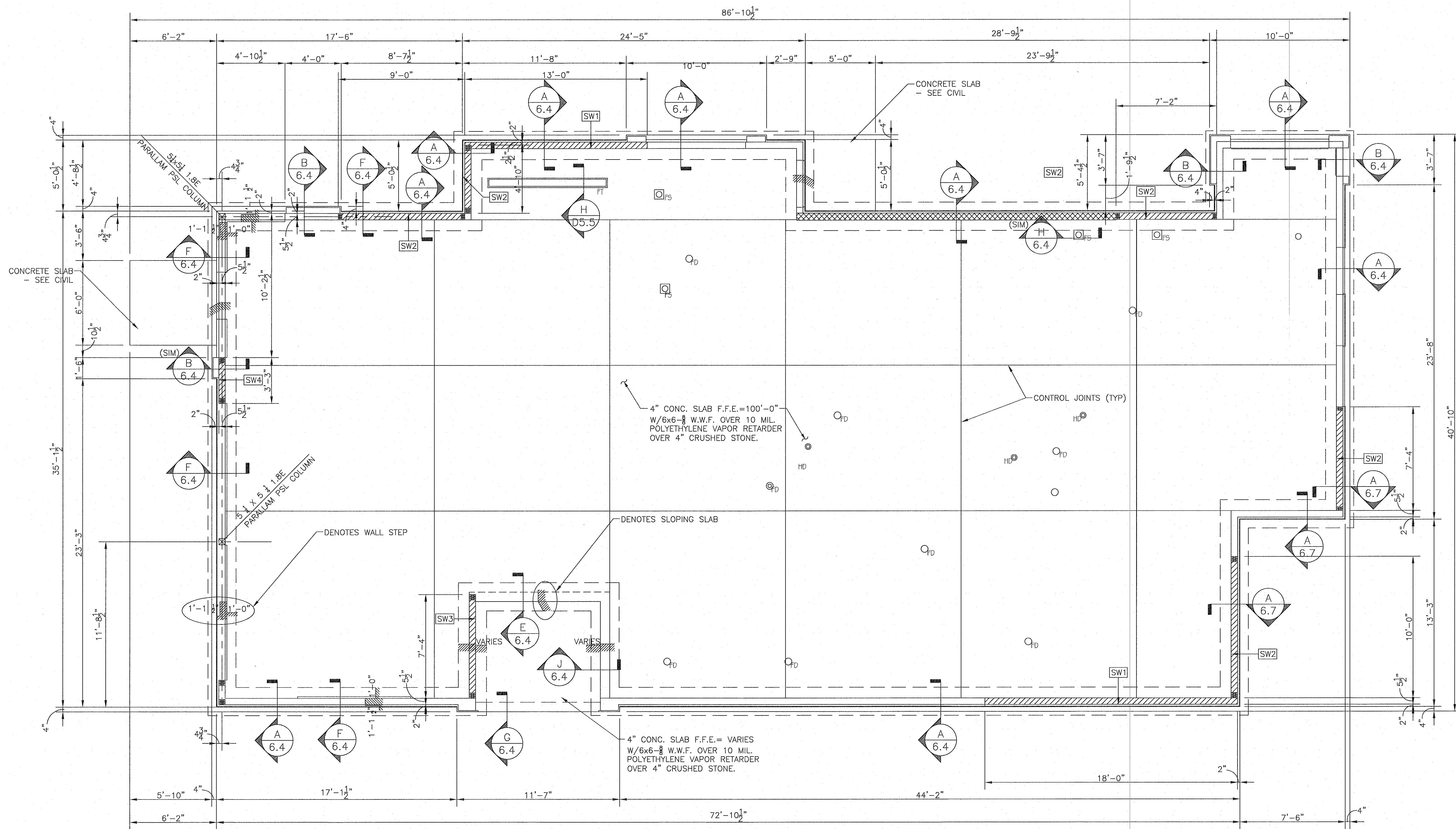
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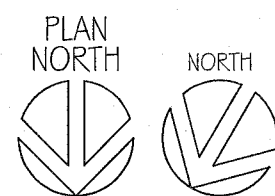
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SHEET NUMBER:

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


OF



FOUNDATION PLAN

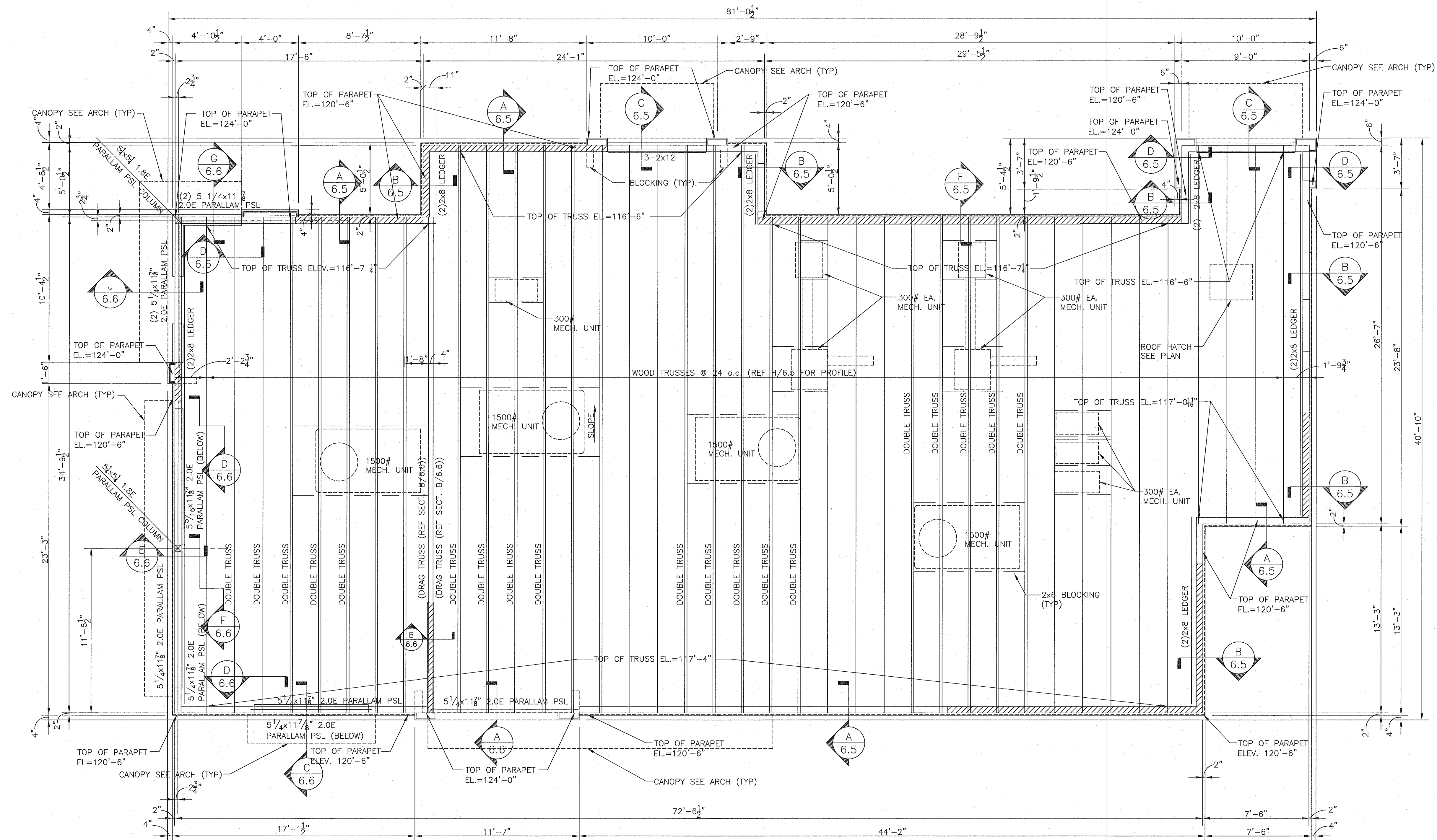


WALL FRAMING NOTES

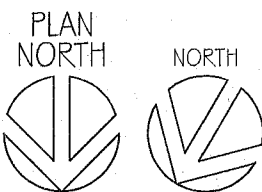
- | | |
|---|---|
|  | 2x6 STUDS @ 16" o.c. W/ 1/2" A.P.A. RATED SHEATHING W/ 10d NAILS @ 6" o.c. AT EDGES AND 12" o.c. IN FIELD TO PANEL. PROVIDE 5/8" A.B. AT 48" o.c. |
|  | SHEAR WALL - SEE SHEAR WALL SCHEDULE |
|  | 600S162 - 43 METAL STUDS @ 16" o.c. WITH 600T100 - 43 QNT. TRACK TOP & BOTTOM ATTACH TRACK TO WALL W/ SIMPSON #10 x 1 1/2" SD SCREWS @ 16" o.c. STUDS TO TRACK W/ #10 SD SCREW EA. SIDE. ATTACH WOOD SHEATHING TO METAL STUDS W/ #10 SD WOOD TO METAL SCREWS @ 16" o.c. AT BOUNDARY W/ 12" o.c. IN FIELD OF PANEL |

FOUNDATION PLAN NOTES:

1. REF. PLAN FOR TOP OF SLAB ELEVATION (T/SLAB), COORDINATE WITH ARCHITECTURAL AND CIVIL.
2. TOP OF EXTERIOR SPREAD FOOTING (T/FG) = 2'-0" BELOW FINISHED FLOOR, TYPICAL UNO.
3. TOP OF INTERIOR SPREAD FOOTING (T/IFG) = 0'-8" BELOW FINISHED FLOOR, TYPICAL UNO.
4. ALL VERTICAL SURFACES EXPOSED TO THE EXTERIOR SHALL BE PRESERVATIVE-TREATED UNO.
5. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR SLAB PENETRATIONS AND UNDERGROUND UTILITIES.
6. ALL FOOTINGS TO BE CENTERED ON COLUMNS AND WALLS THEY SUPPORT, UNO.
7. REFER TO ARCHITECTURAL DRAWINGS FOR EXTENTS AND DIMENSIONS OF RAISED/DEPRESSED SLABS AND AREAS REQUIRING SLOPES AND DRAINS.
8. SW# DENOTES SHEAR WALL, REF SE 4.0 FOR SCHEDULE.

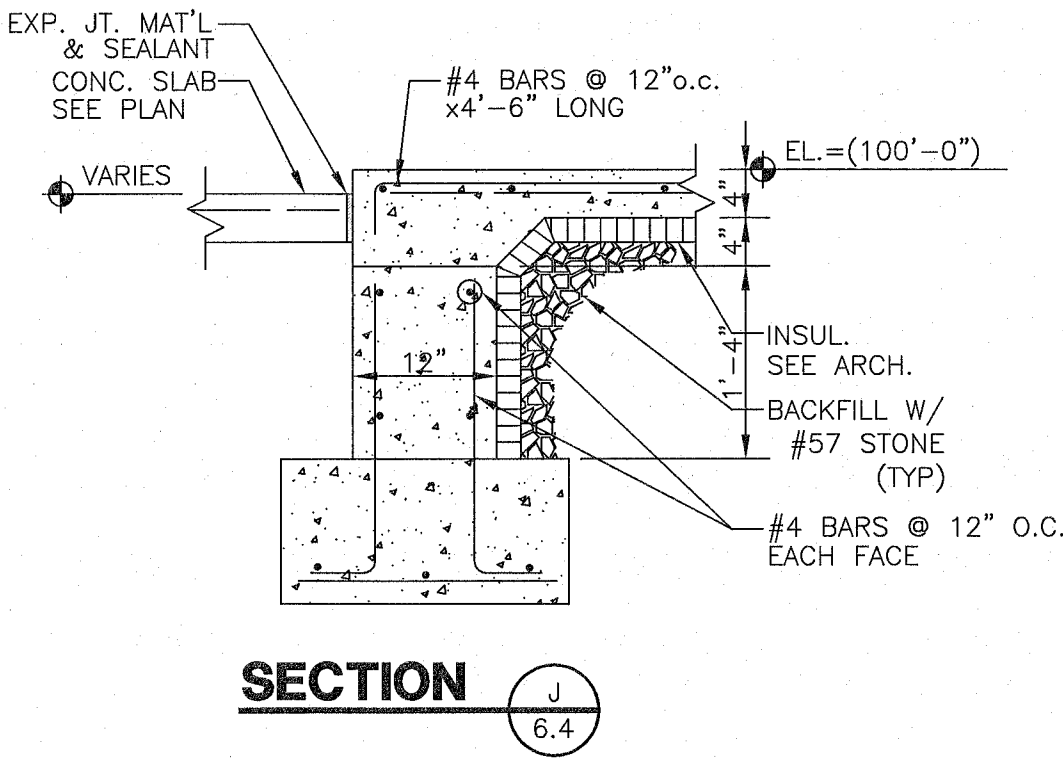
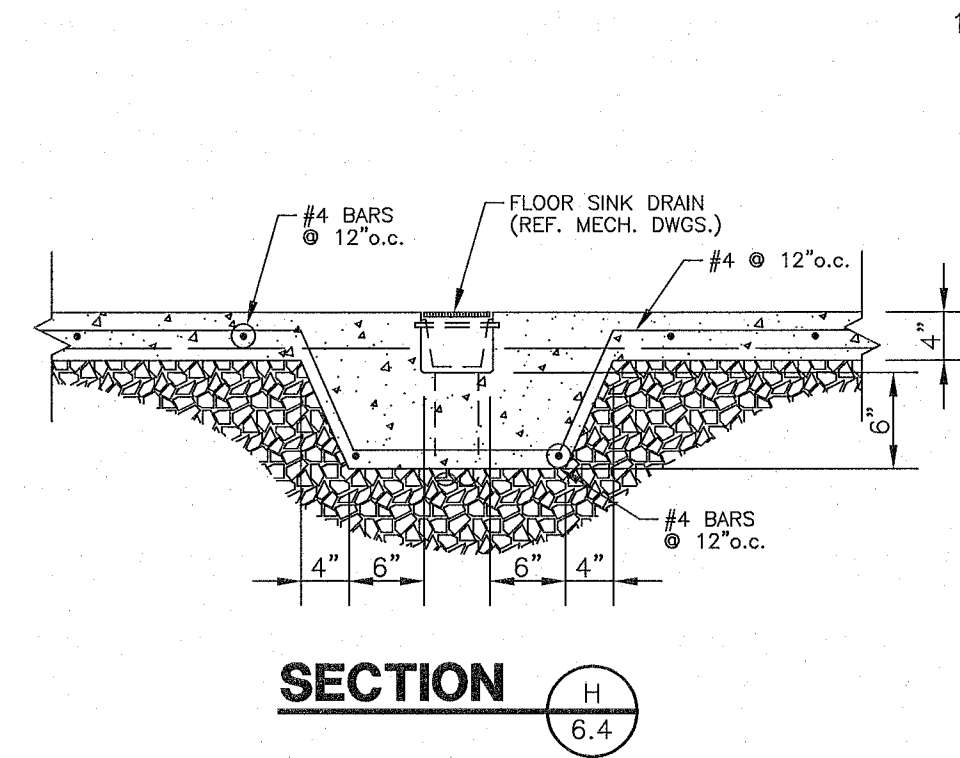
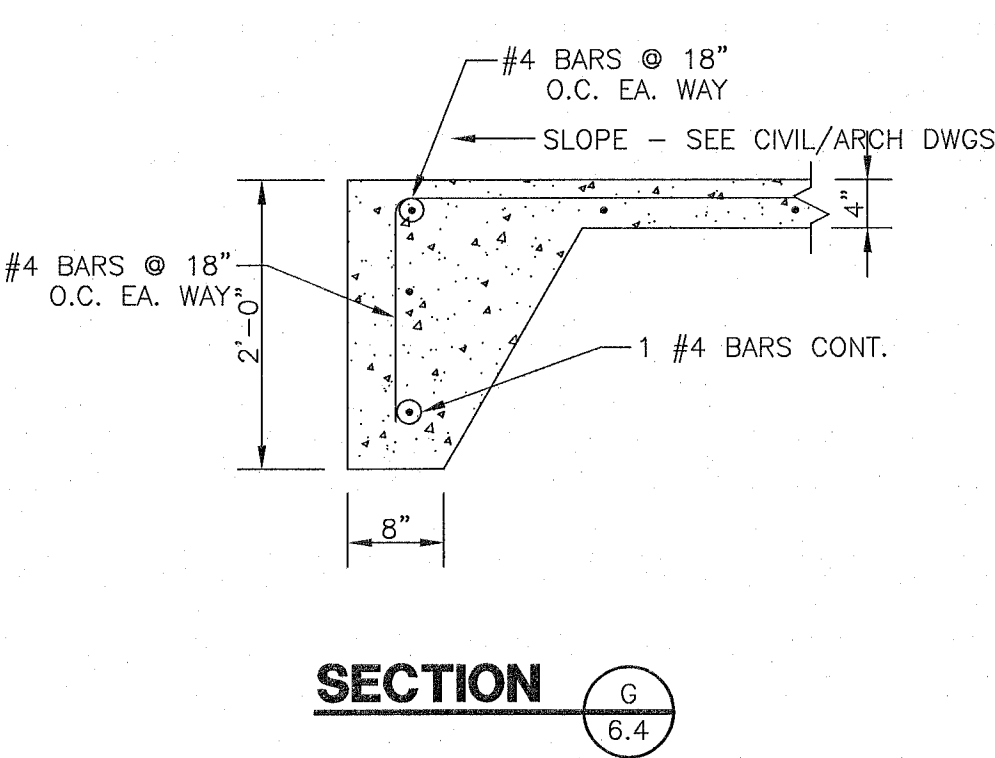
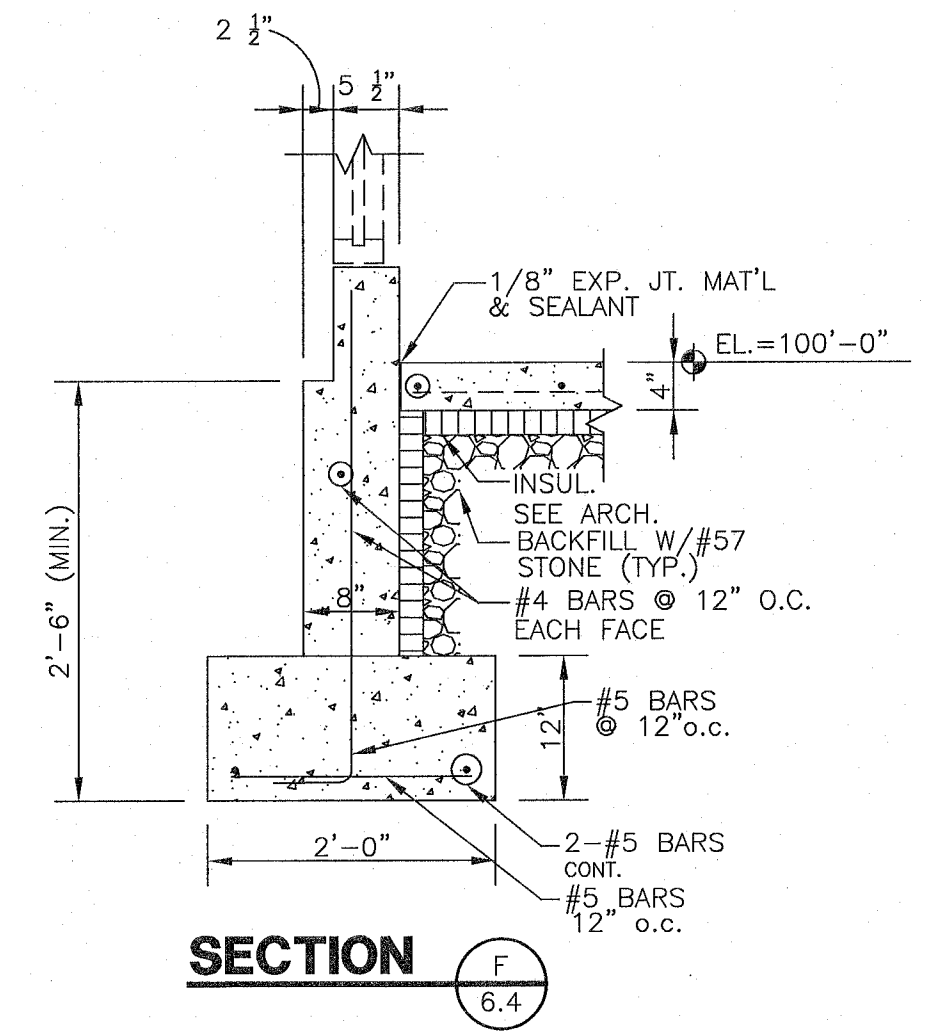
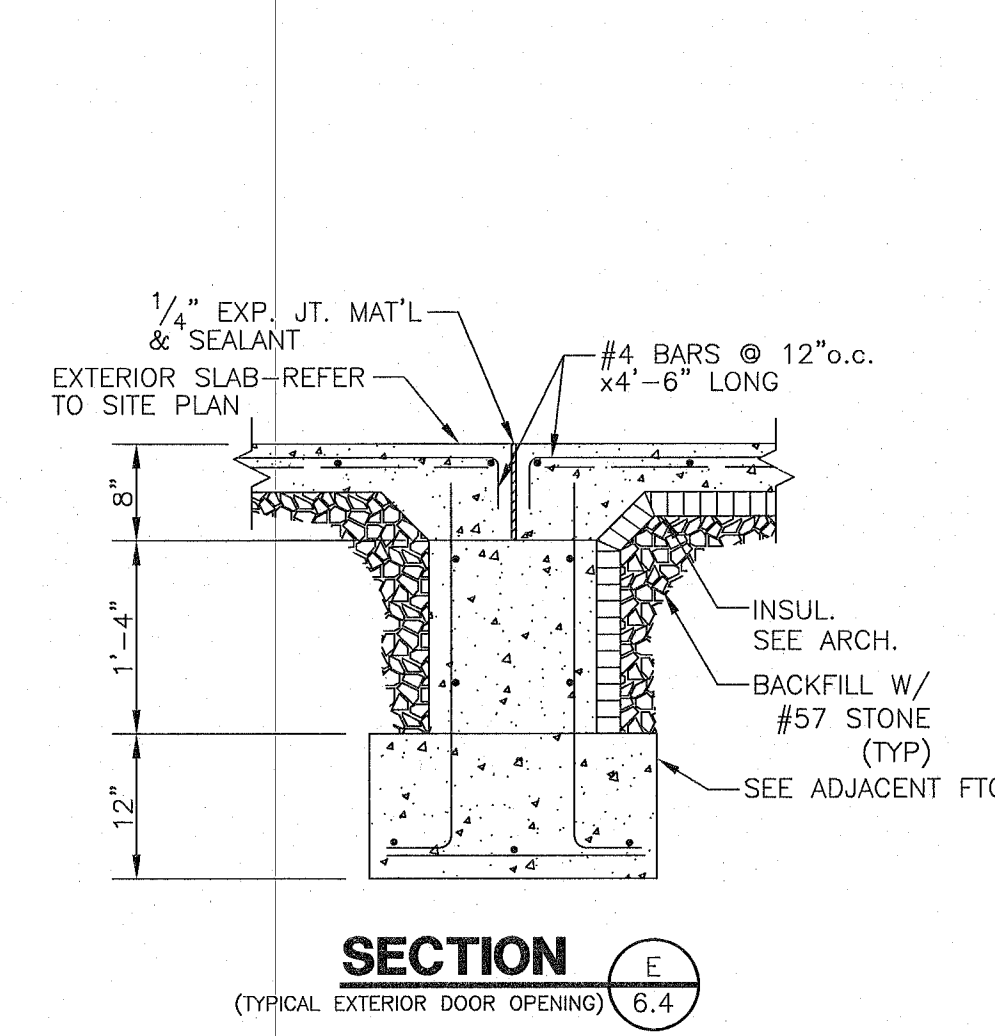
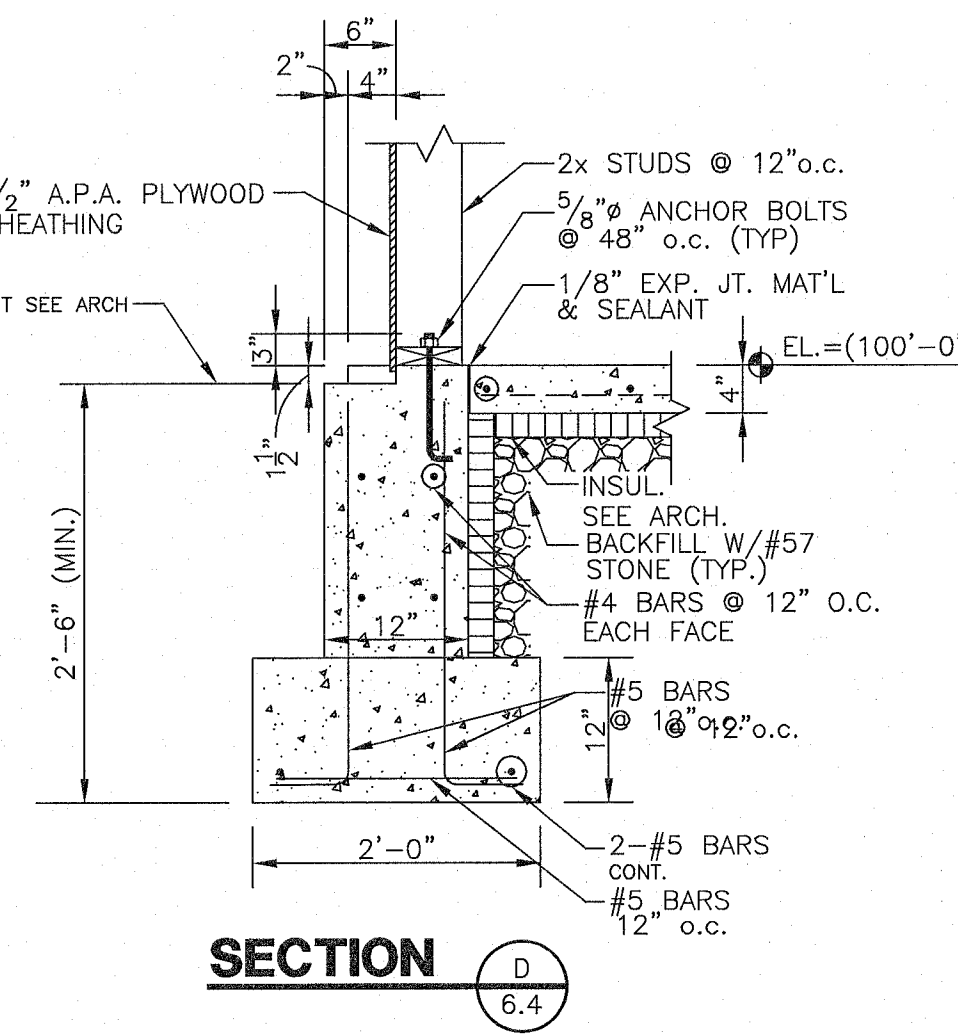
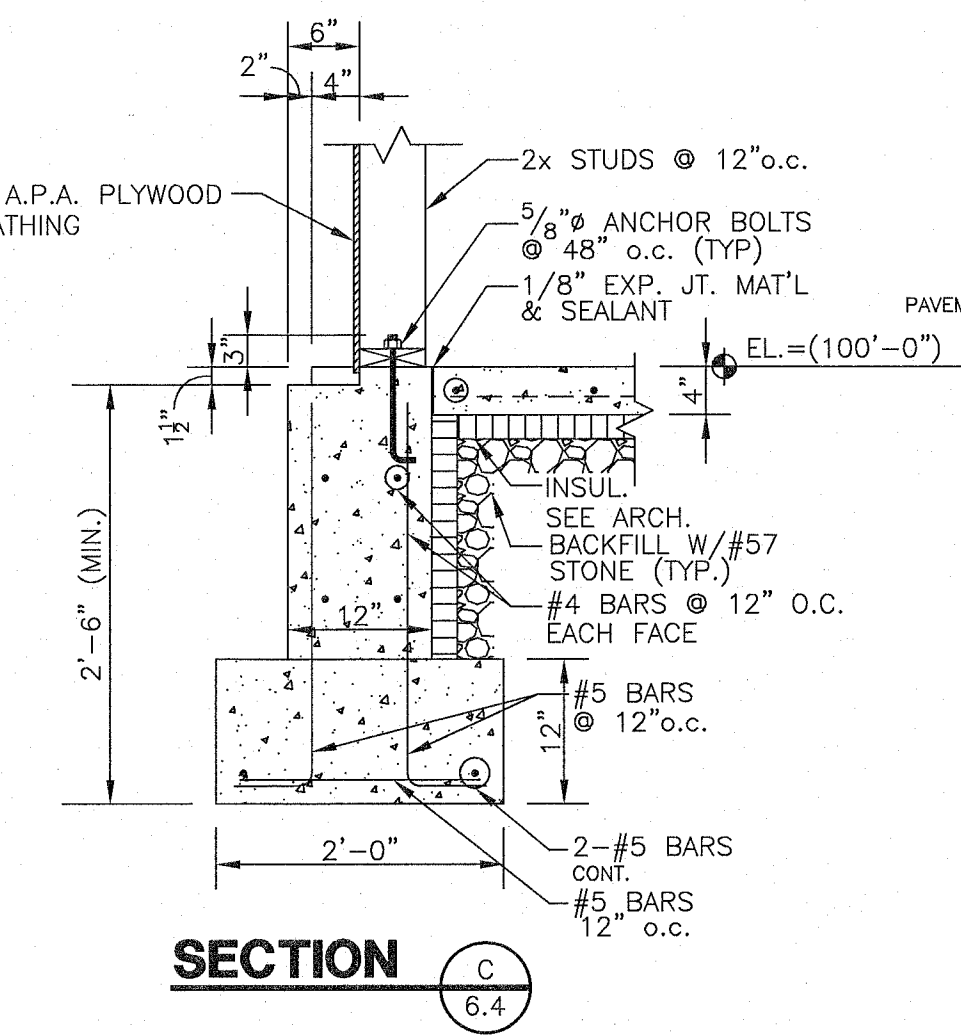
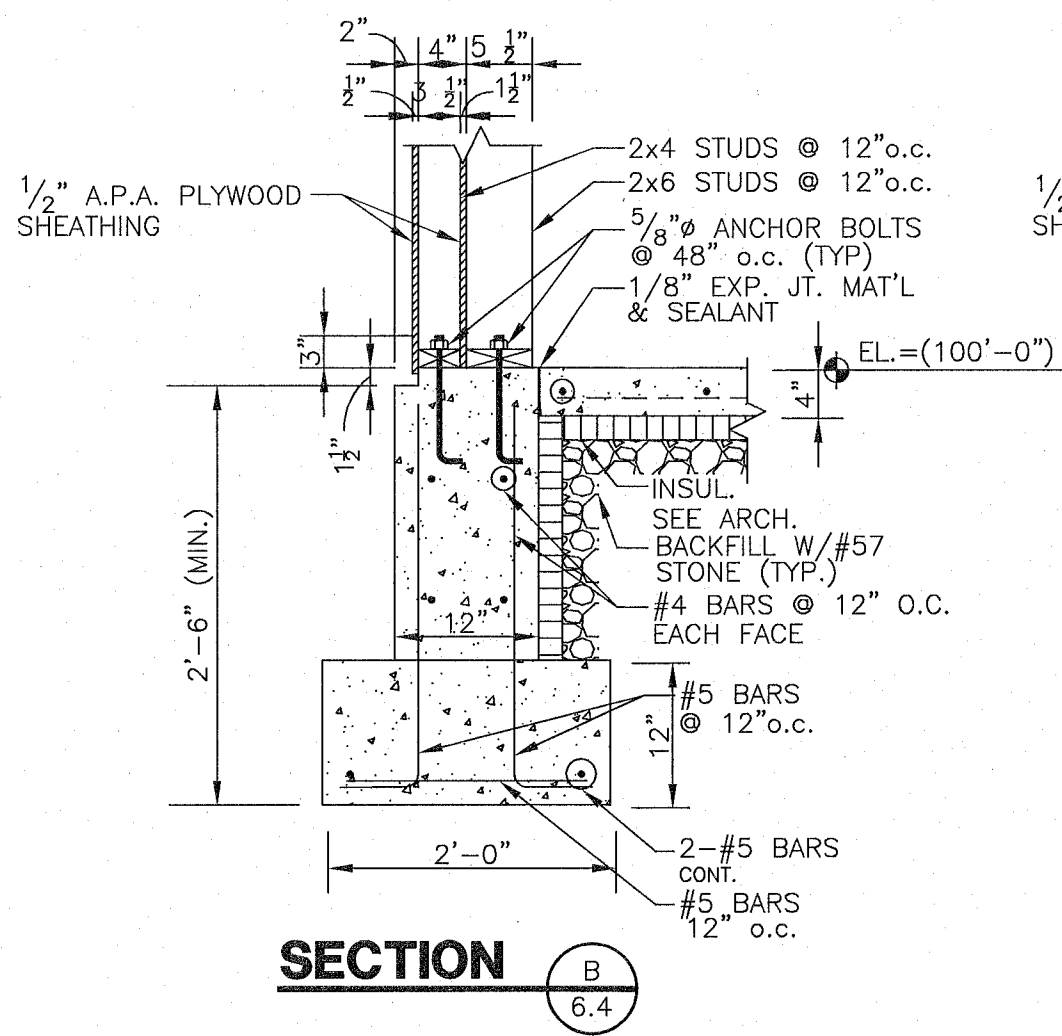
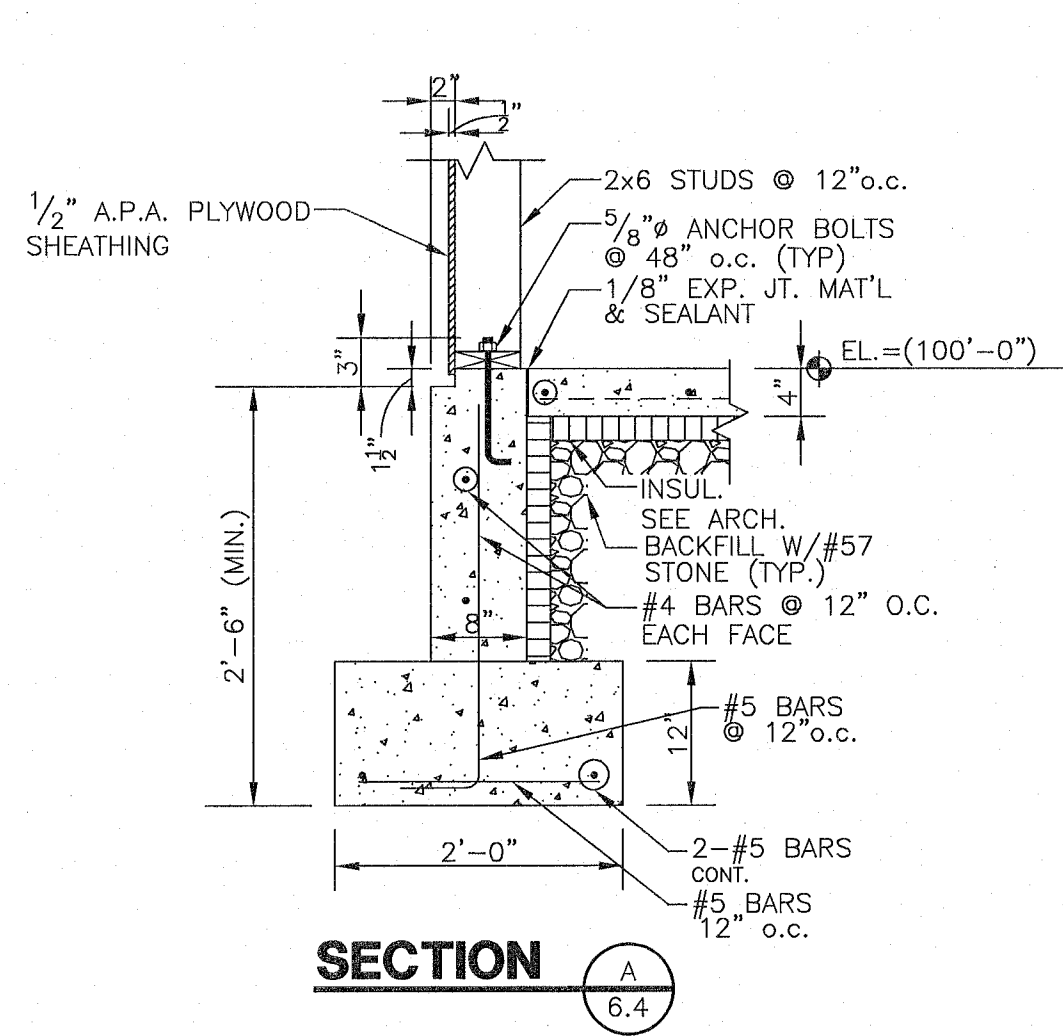


ROOF FRAMING PLAN

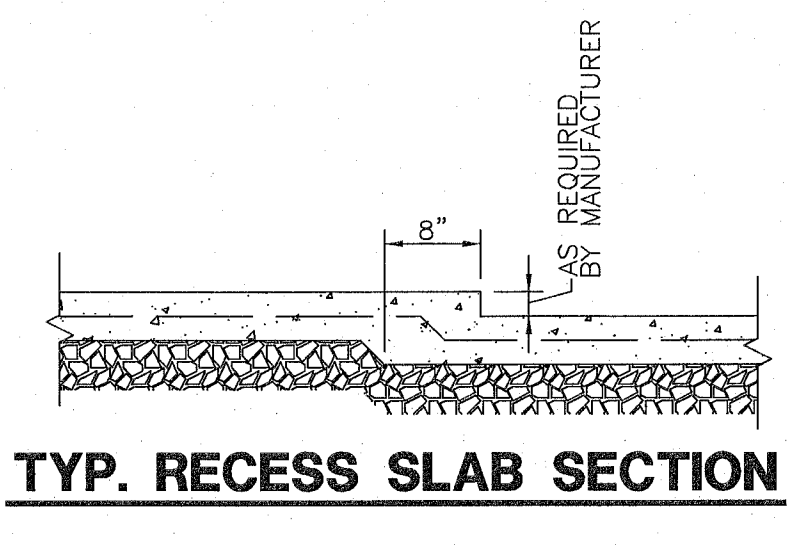
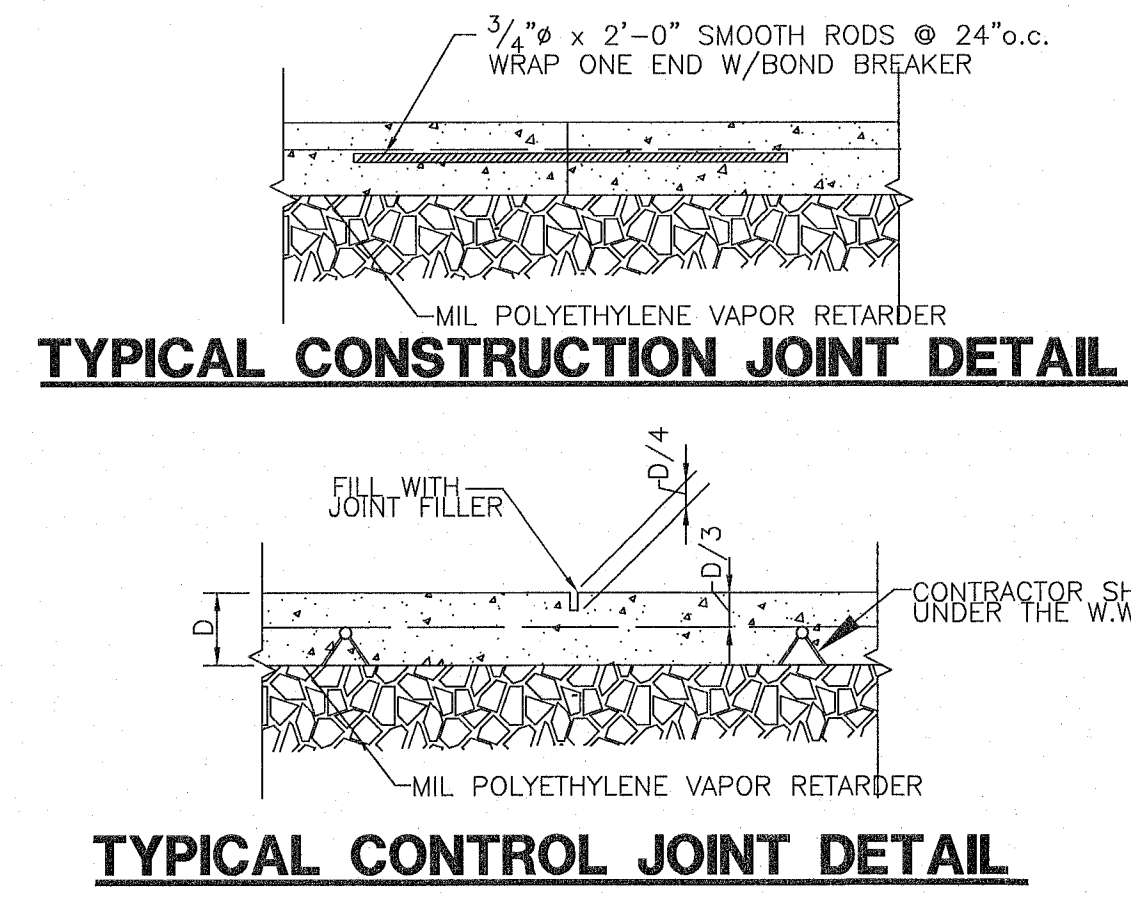
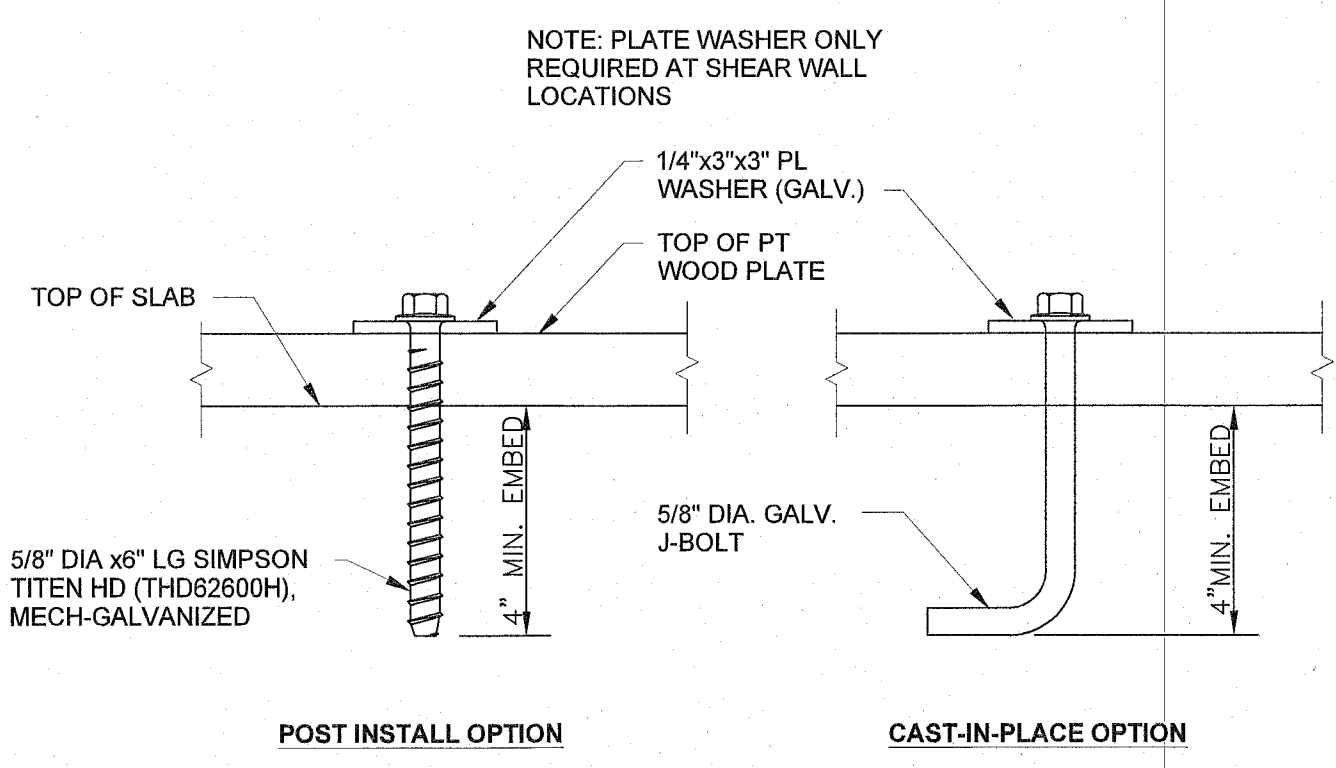
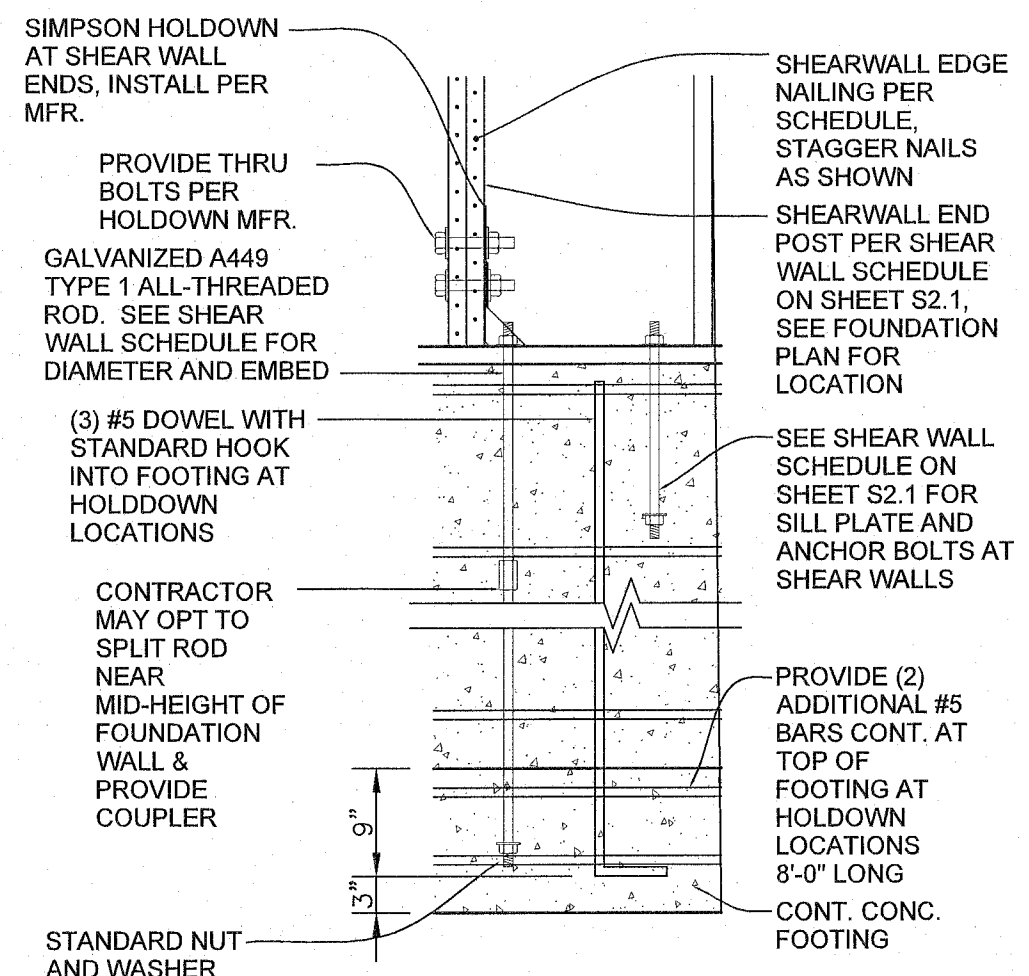


PLAN NOTES:

1. CONTRACTOR SHALL VERIFY ALL EQUIPMENT WEIGHTS WITH SUPPLIER AND LOCATIONS PRIOR TO FABRICATION OF TRUSSES.
2. CONTRACTOR SHALL COORDINATE TRUSS LAYOUT W/ SPECIFIC KITCHEN & MECHANICAL EQUIPMENT PLANS PRIOR TO ORDERING OR SETTING TRUSSES. MAXIMUM TRUSS SPACING = 32' o.c.
3. REF. ARCH. DWGS. FOR DETAILS OF SCUPPERS, ROOF DRAINS, ROOF PENETRATIONS AND PITCH PLAN.
4. REF. ARCH. DWGS. FOR FRAMING DETAILS AT BULKHEAD. TRUSS MANUF. TO SIZE BOTTOM CHORD OF TRUSS FOR BULKHEAD LOADS.
5. PROVIDE 2x6 BLOCKING AROUND ALL MEP ROOF TOP EQUIPMENT.



SHEAR WALL SCHEDULE		
MARK		
SW1	PLYWOOD (1 SIDE)	1/2" APA. RATED EXT. SIDE
	NAILING	
	BOUNDRY & EDGES	10d NAILS @ 6"
	FIELDS	10d NAILS @ 12"
	SILL PLATE BOLTS	5/8" @ A.B. @ 48" o.c.
SW2	PLYWOOD (1 SIDE)	1/2" APA. RATED EXT. SIDE
	NAILING	
	BOUNDRY & EDGES	10d NAILS @ 4"
	FIELDS	10d NAILS @ 12"
	SILL PLATE BOLTS	5/8" @ A.B. @ 24" o.c.
SW3	PLYWOOD (2 SIDE)	1/2" APA. RATED BOTH SIDE
	NAILING	
	BOUNDRY & EDGES	10d NAILS @ 4"
	FIELDS	10d NAILS @ 12"
	SILL PLATE BOLTS	5/8" @ A.B. @ 24" o.c.
SW4	PLYWOOD (1 SIDE)	1/2" APA. RATED EXT. SIDE
	NAILING	
	BOUNDRY & EDGES	10d NAILS @ 4"
	FIELDS	10d NAILS @ 12"
	SILL PLATE BOLTS	5/8" @ A.B. @ 24" o.c.
NOTE: SEE DETAIL - TOE SILL PLATE ANCHORS ALL SHEAR WALLS IN SCHEDULE SHALL BE 2x6 SPACED @ 16" o.c.		



REVISIONS:

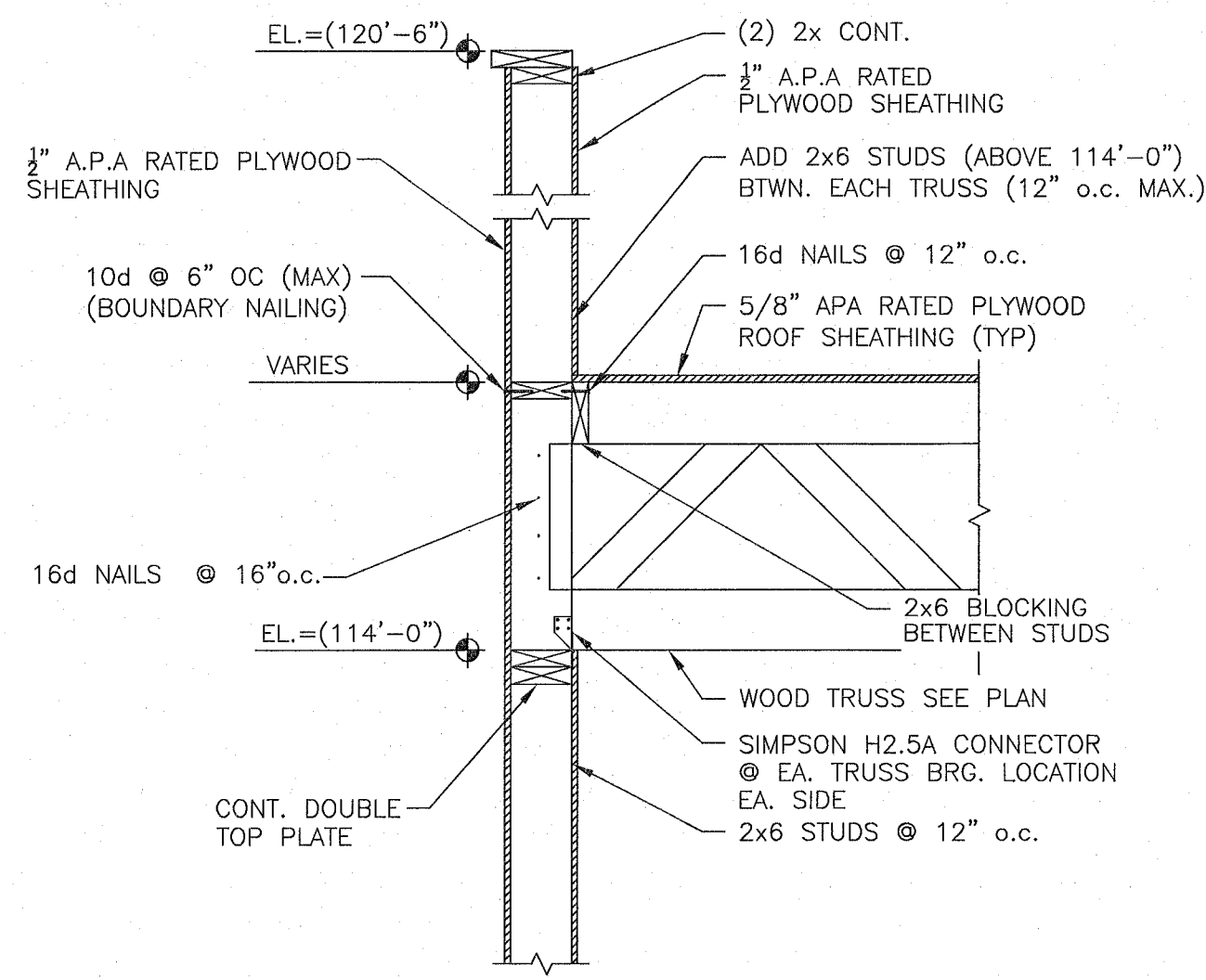
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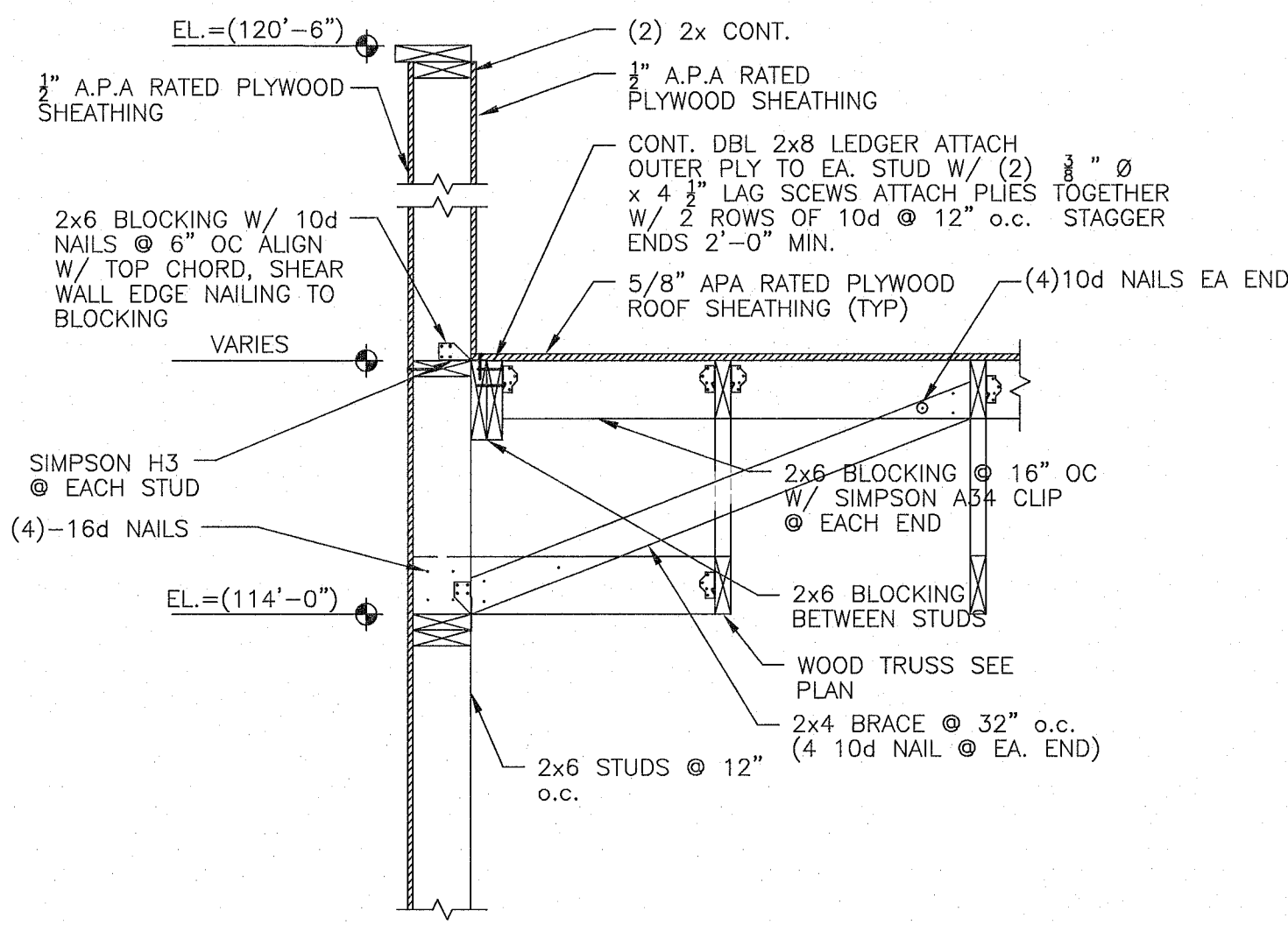
STATE OF KENTUCKY
BRUCE SCOTT
2021 NOV 24 11:23 AM
17-2521

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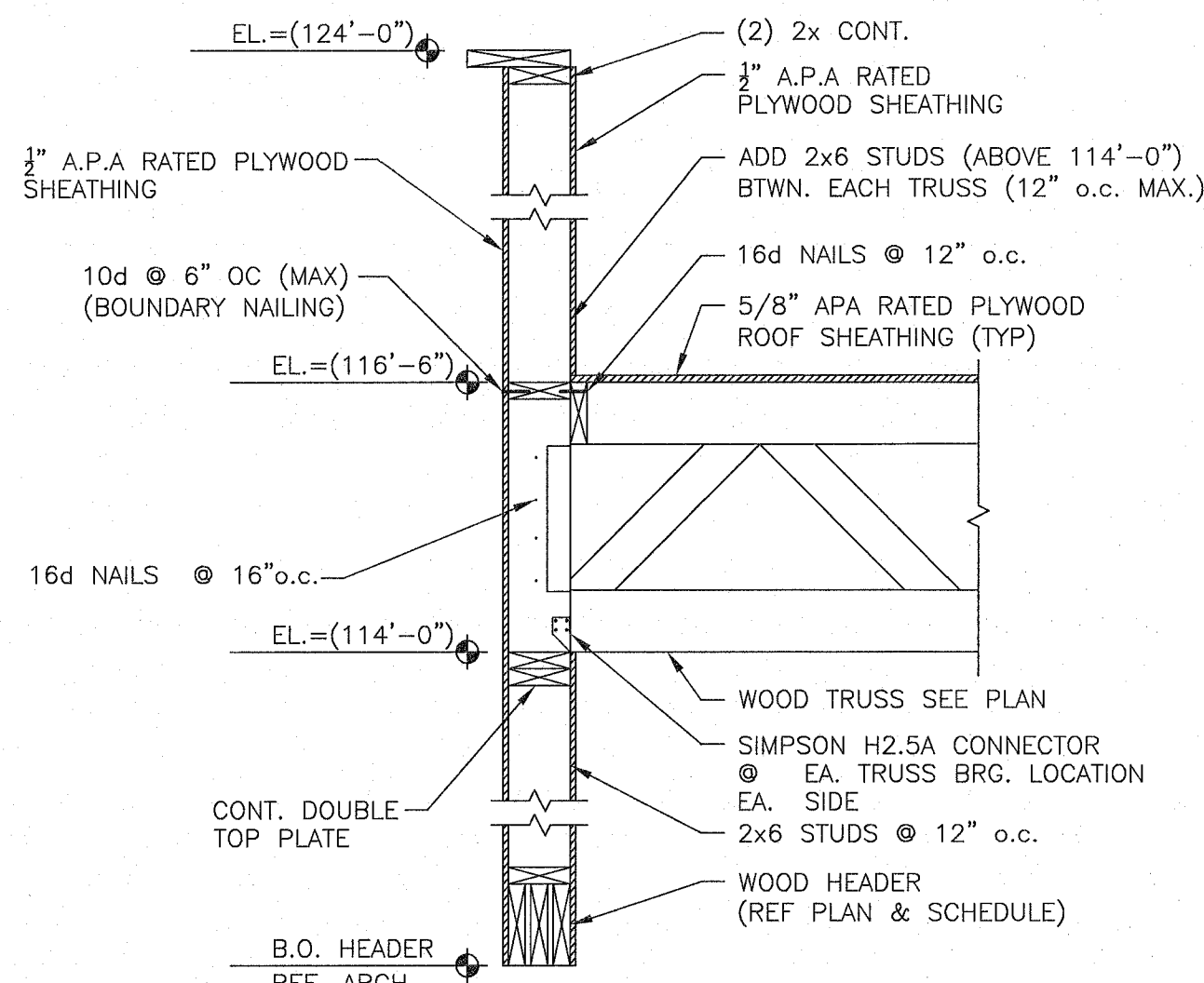
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JOB NO: 21234
DRAWN BY: MMF
SHEET NUMBER: 6.4
OF



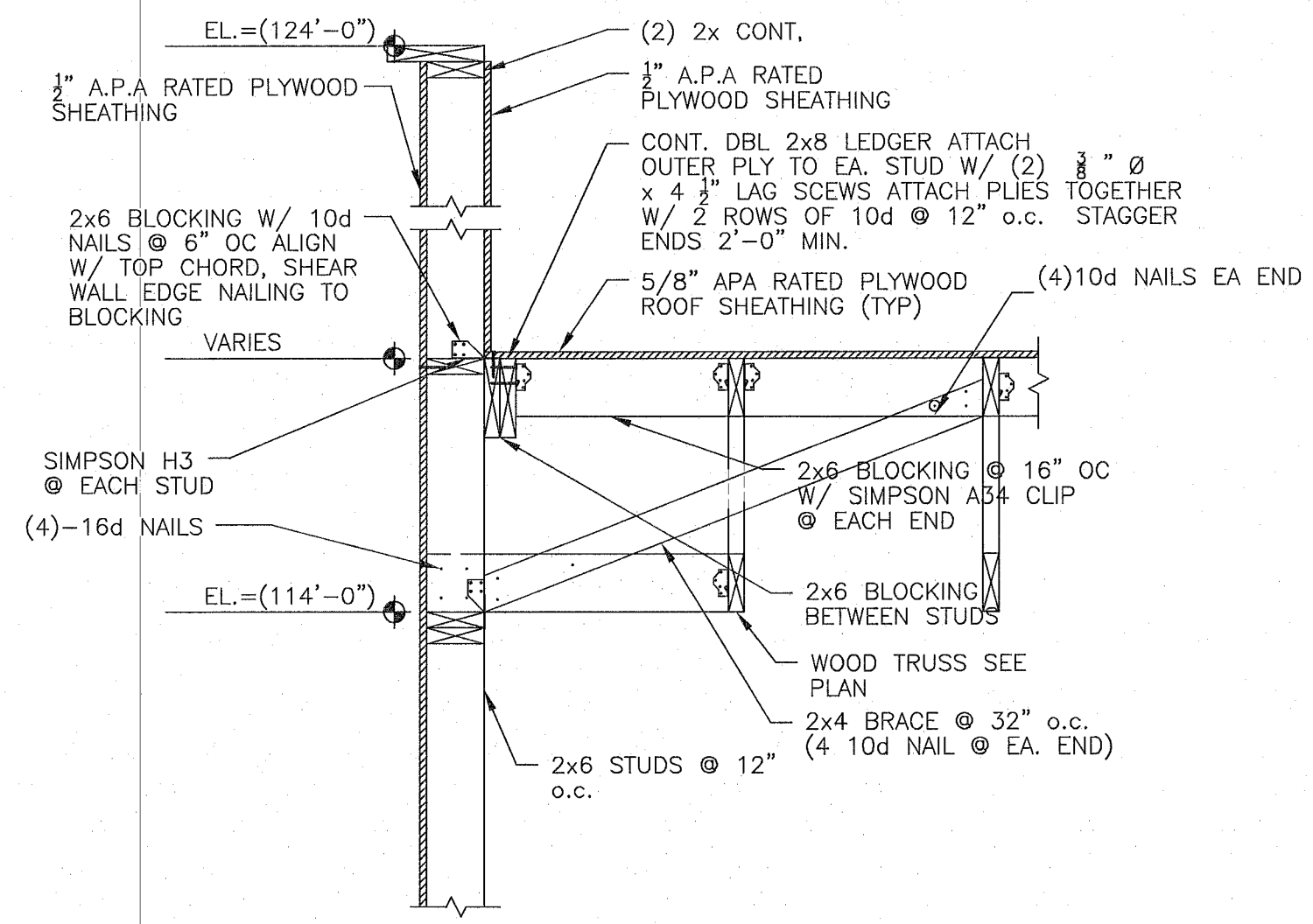
SECTION A 6.5



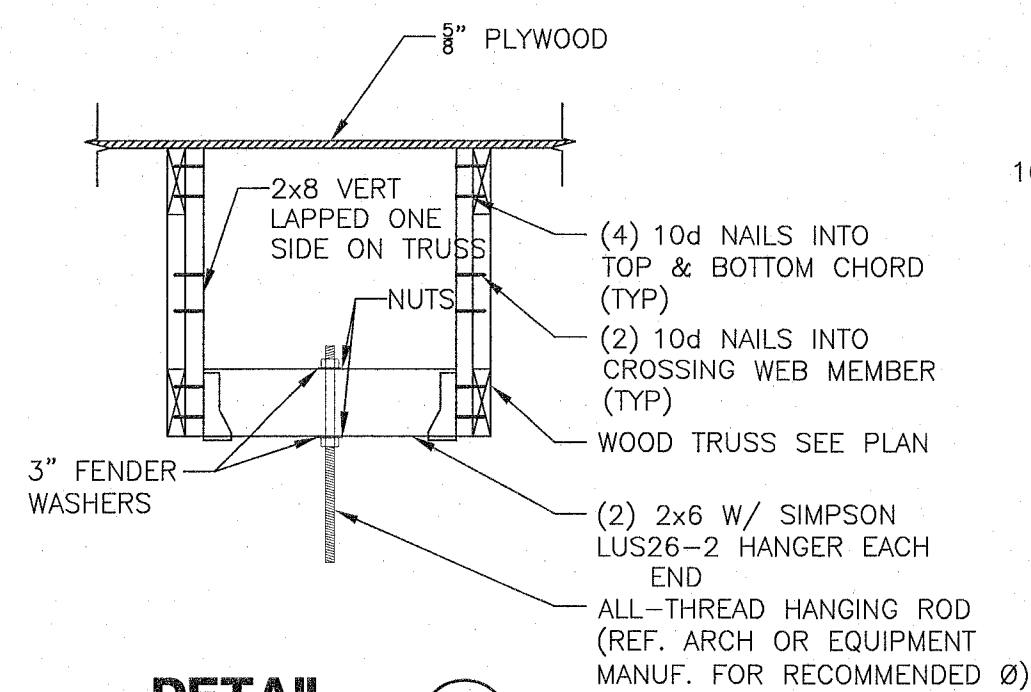
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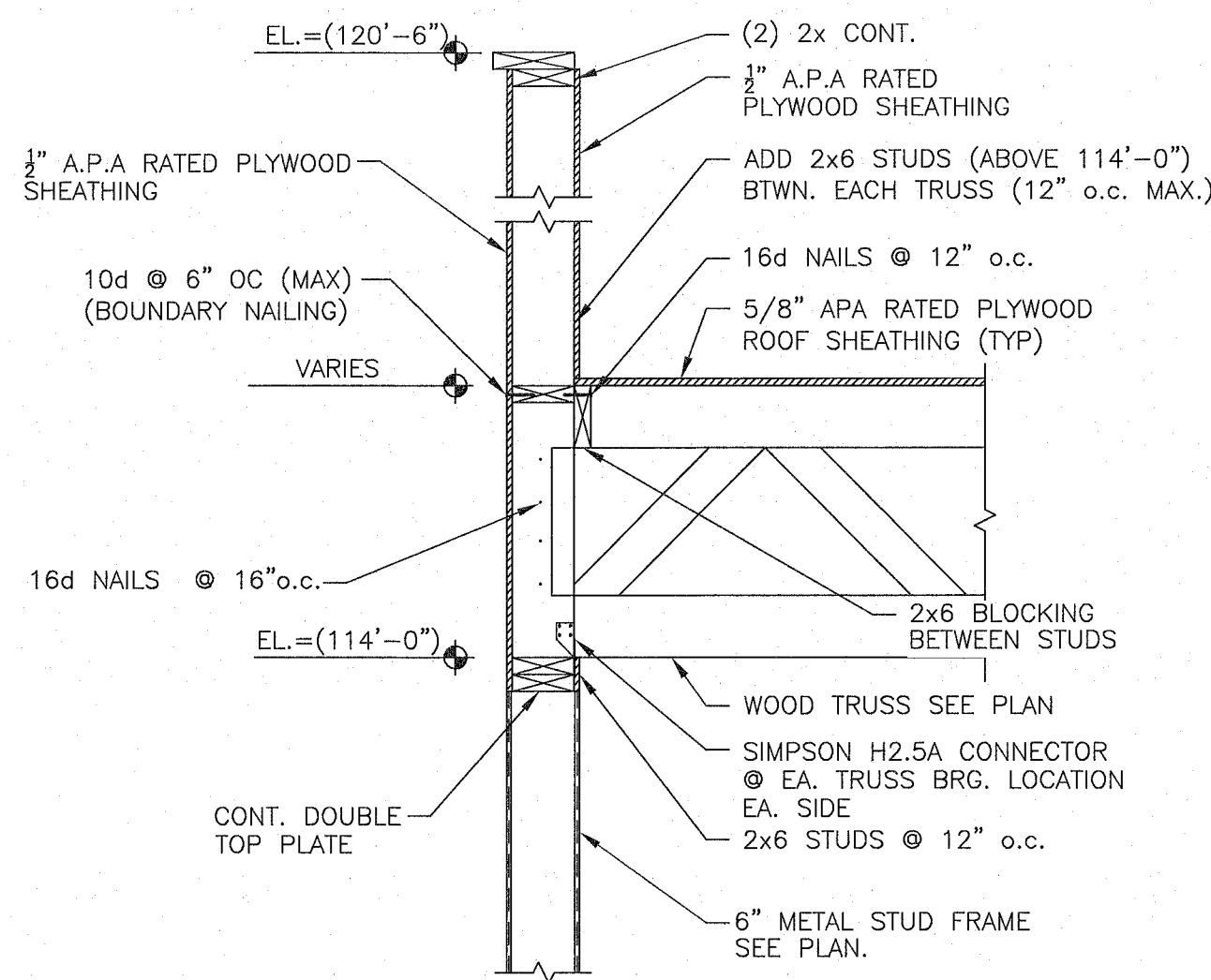
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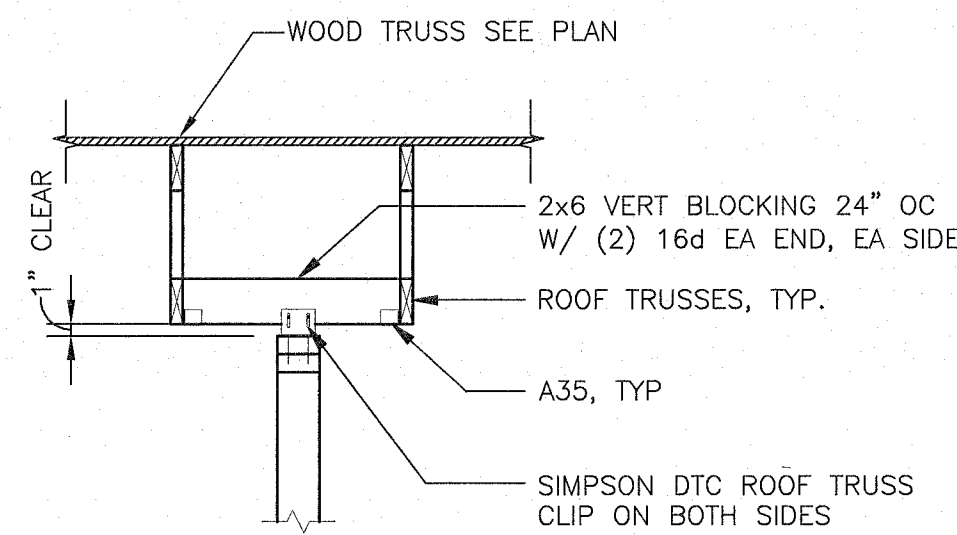
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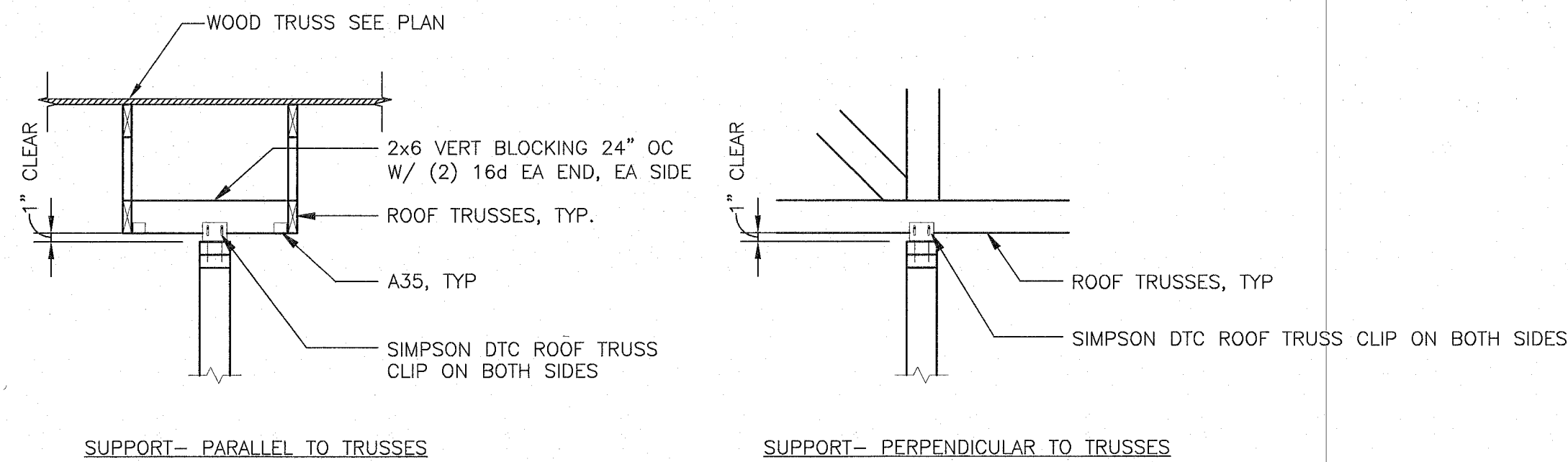
DETAIL E 6.5



SECTION F 6.5

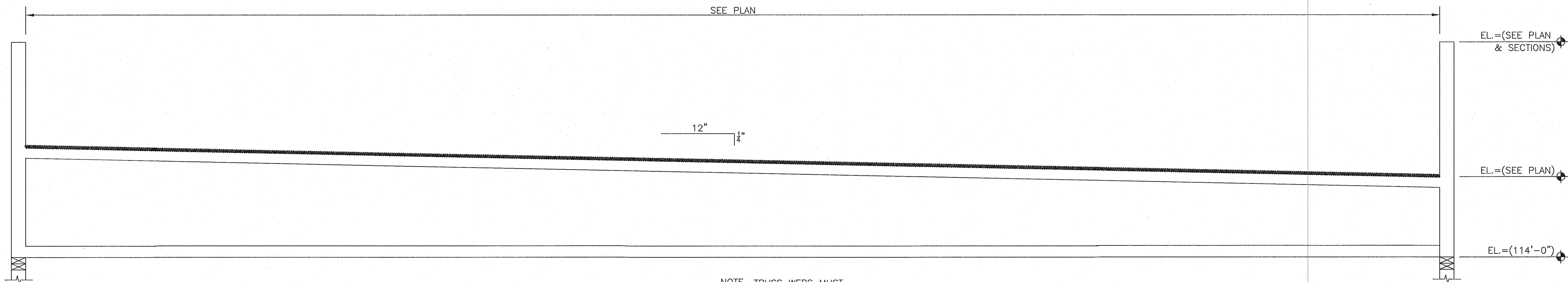


DETAIL G 6.5



NOTE: TRUSS WEBS MUST ALIGN BETWEEN TRUSSES

DETAIL H 6.5

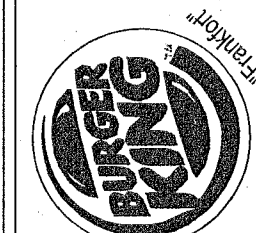


SEE PLAN 6.5

REVISIONS:

SECTIONS AND DETAILS

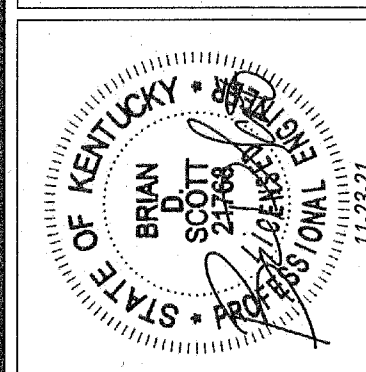
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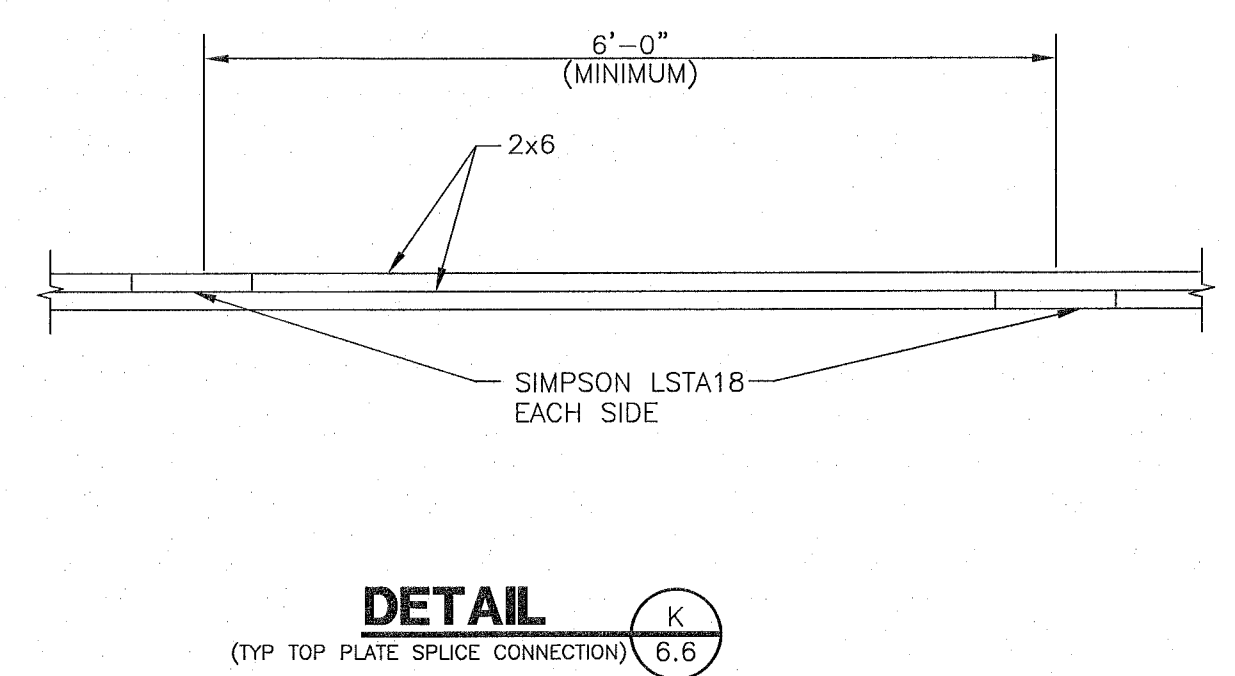
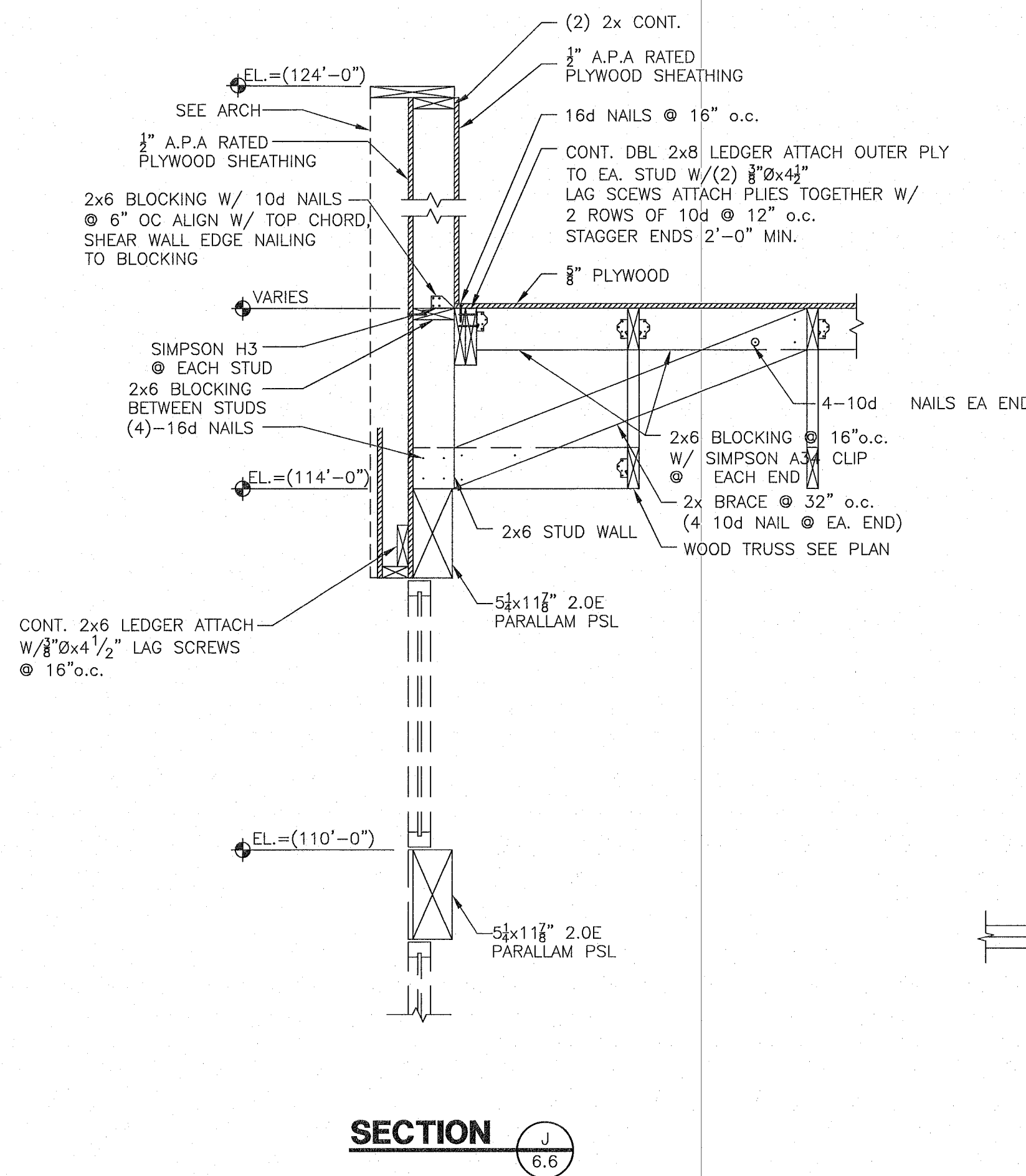
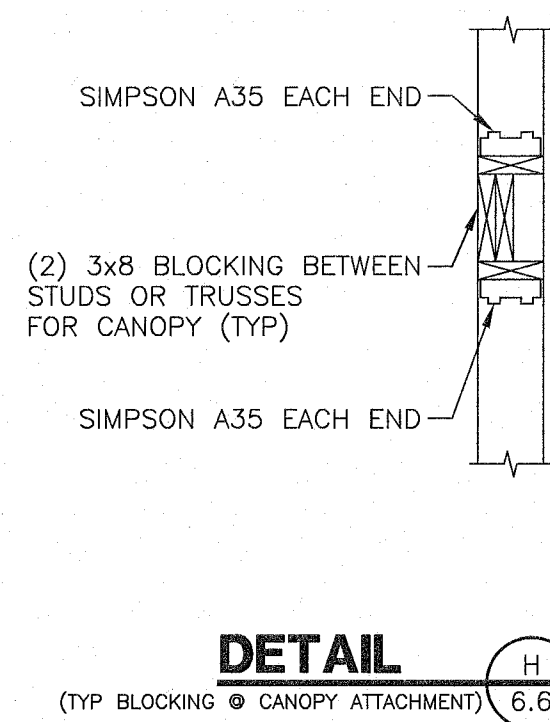
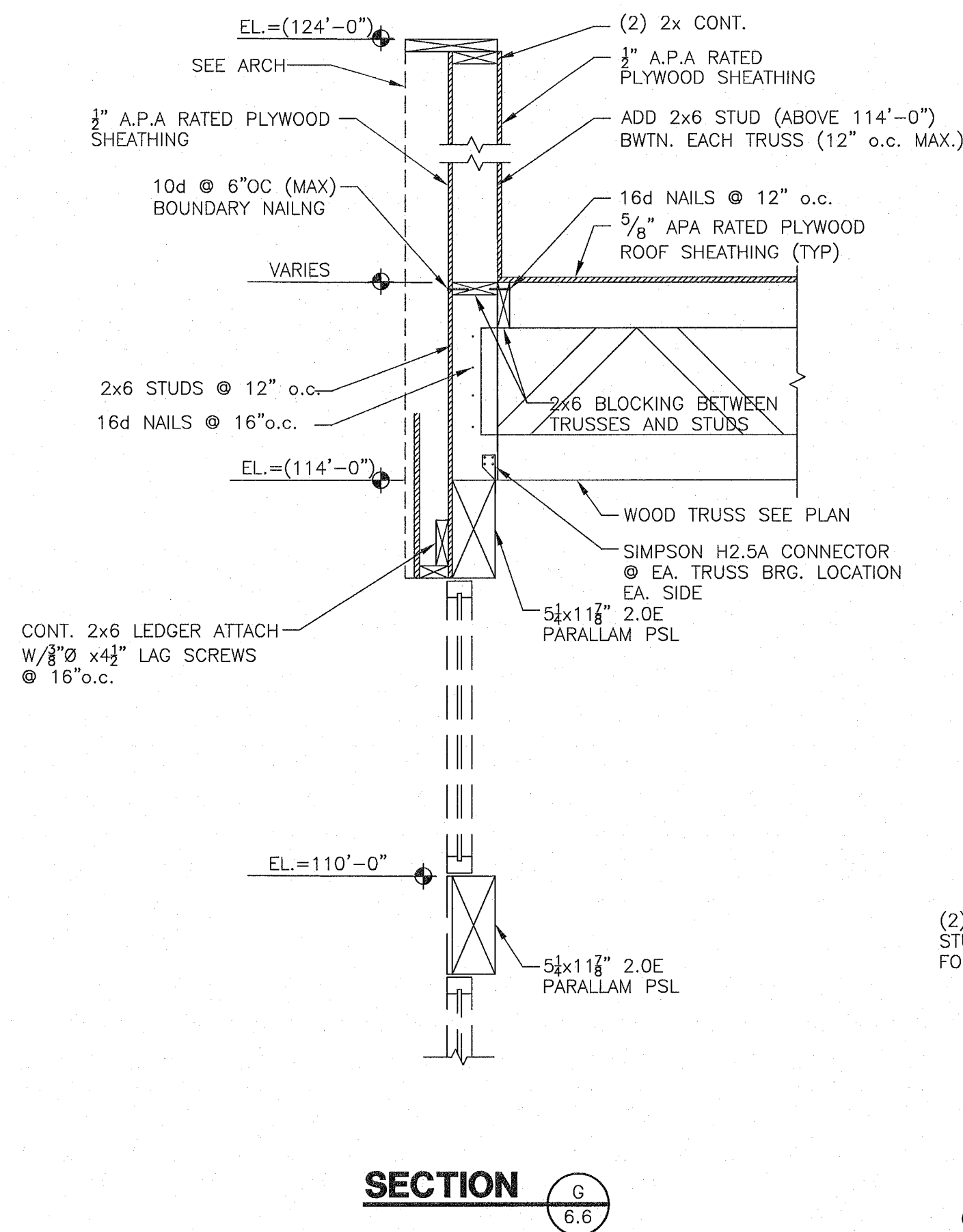
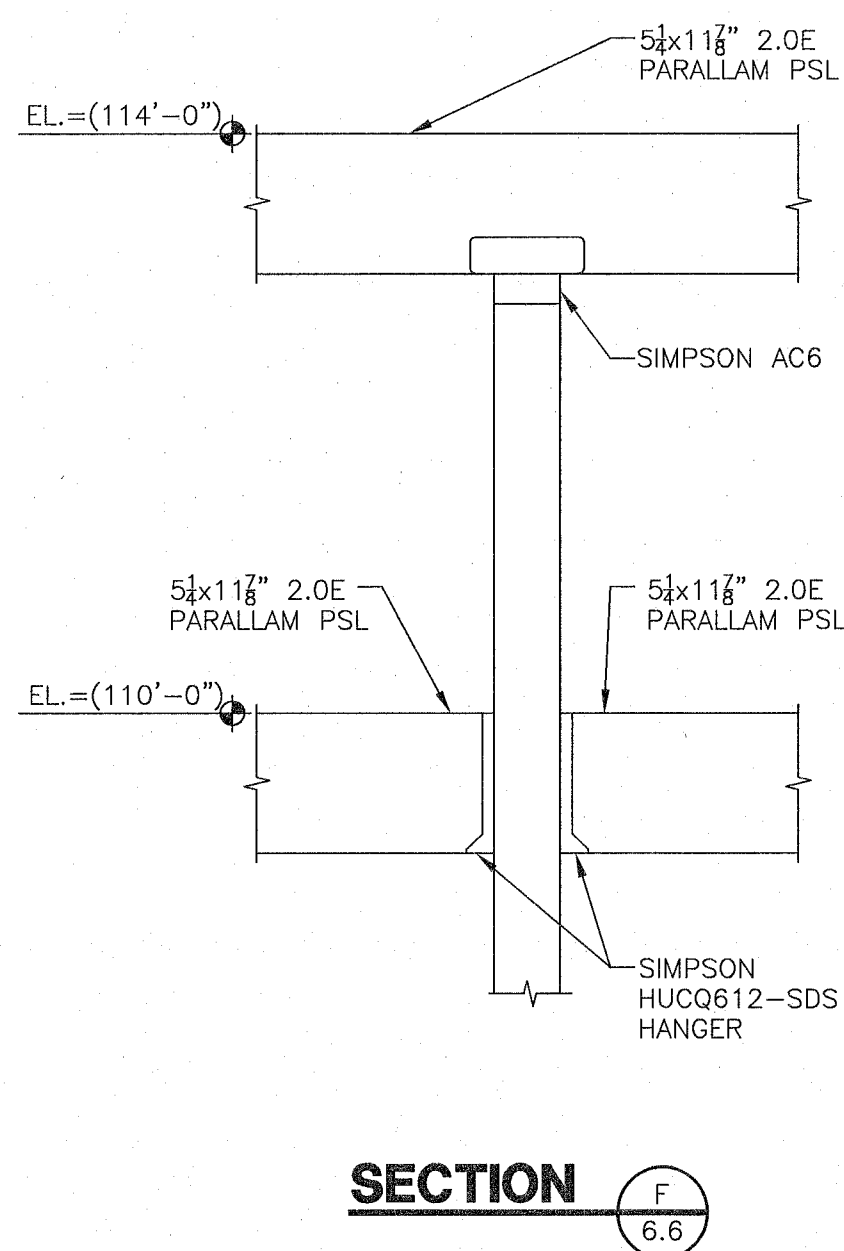
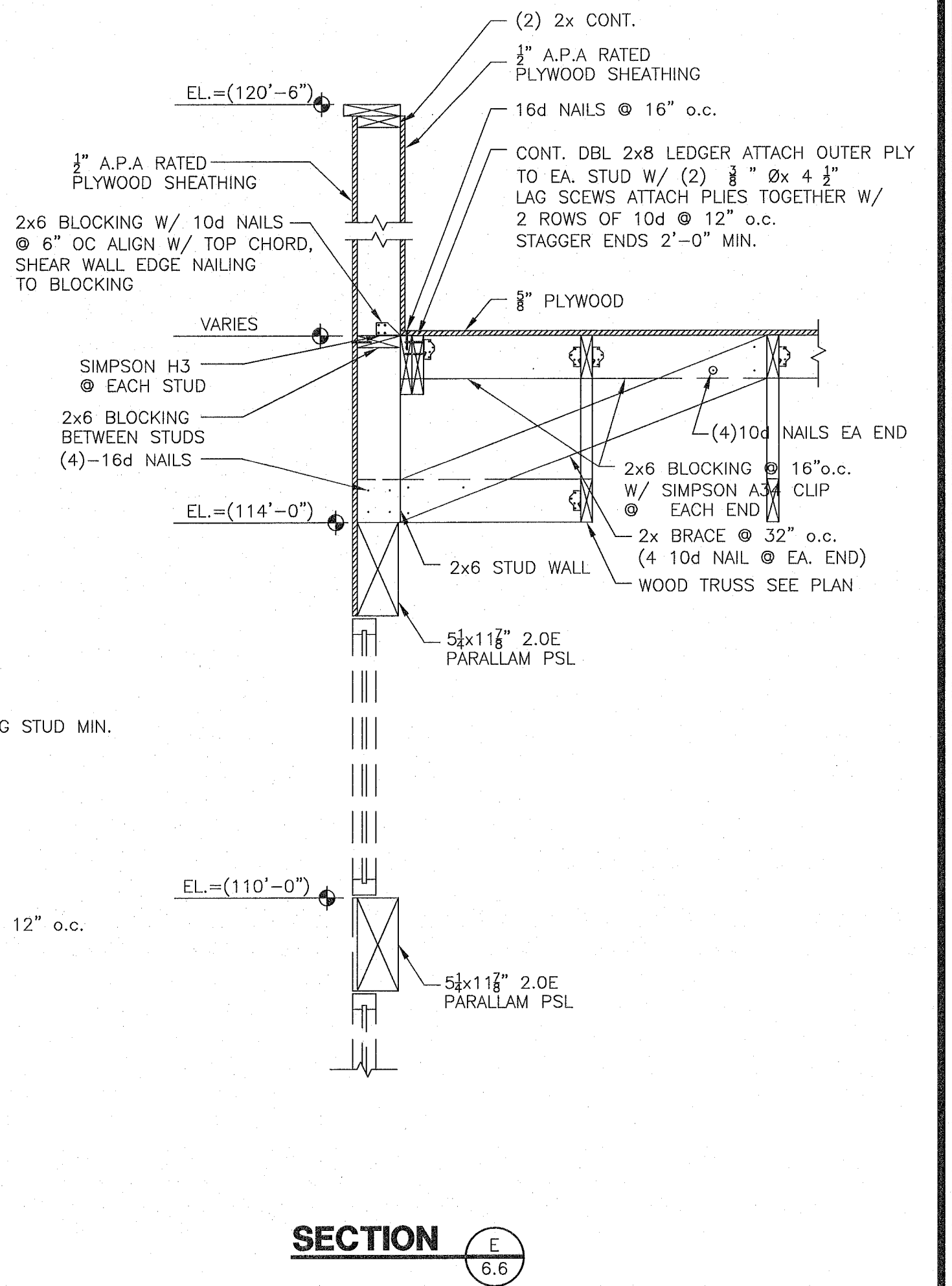
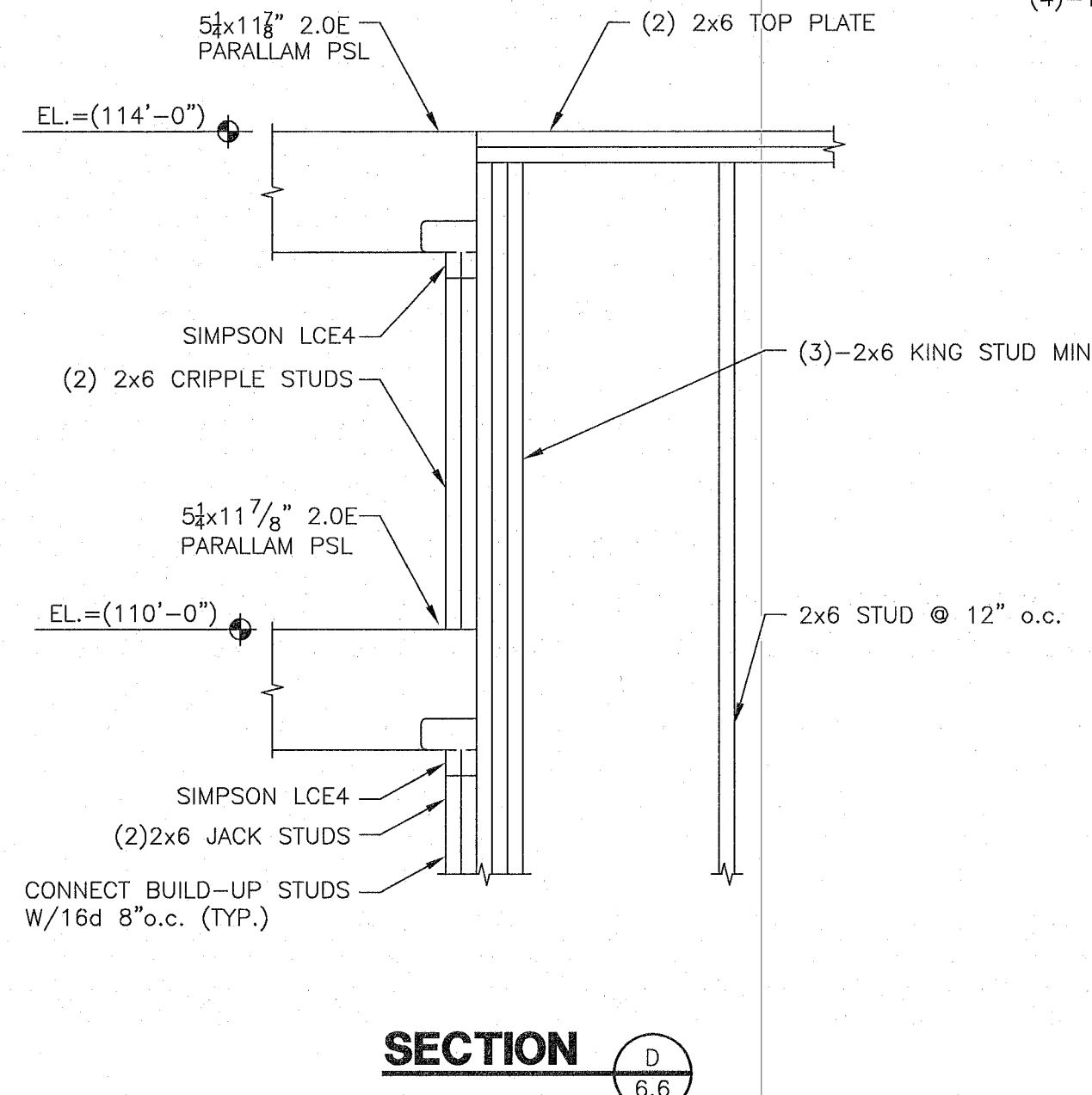
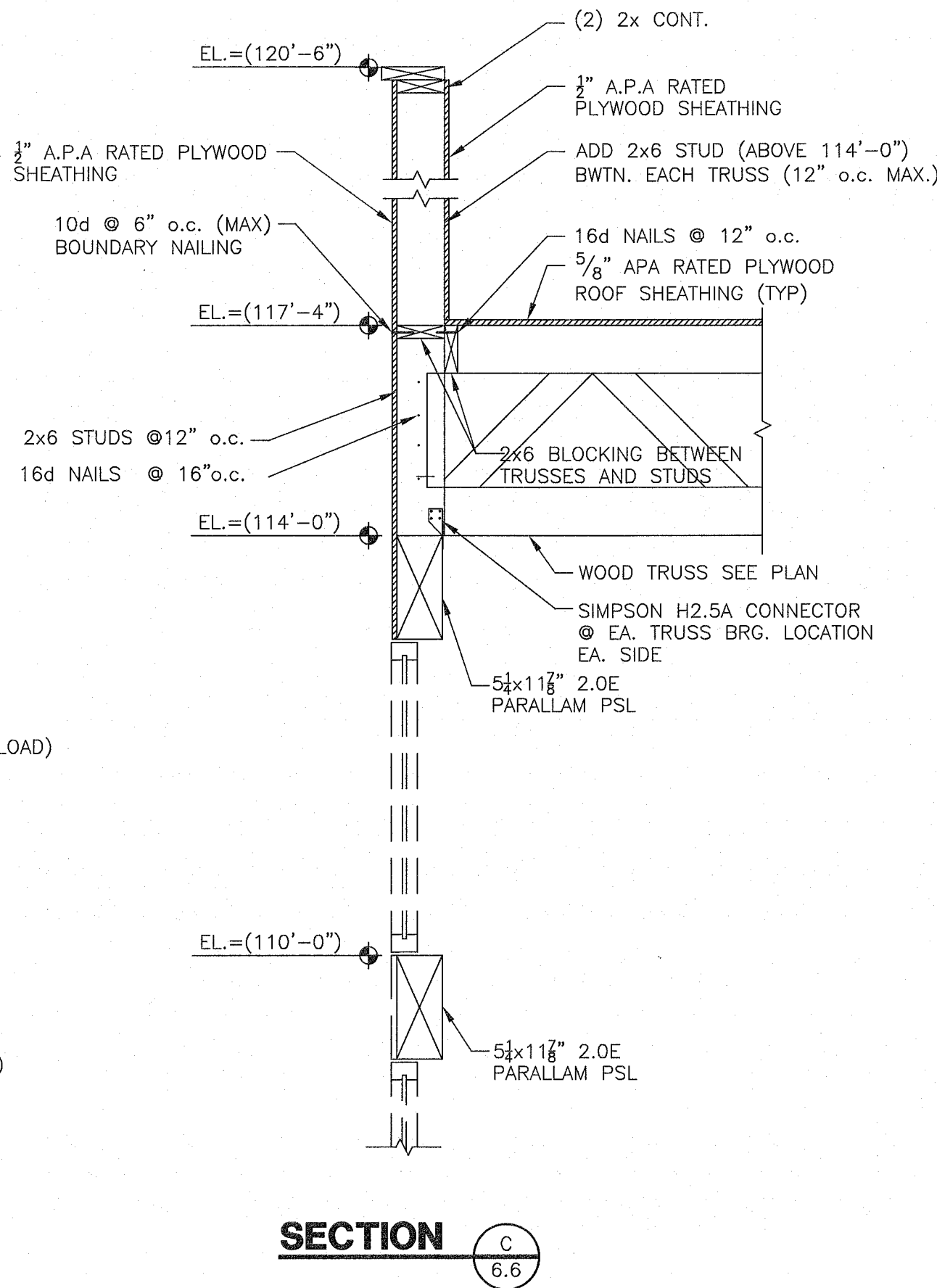
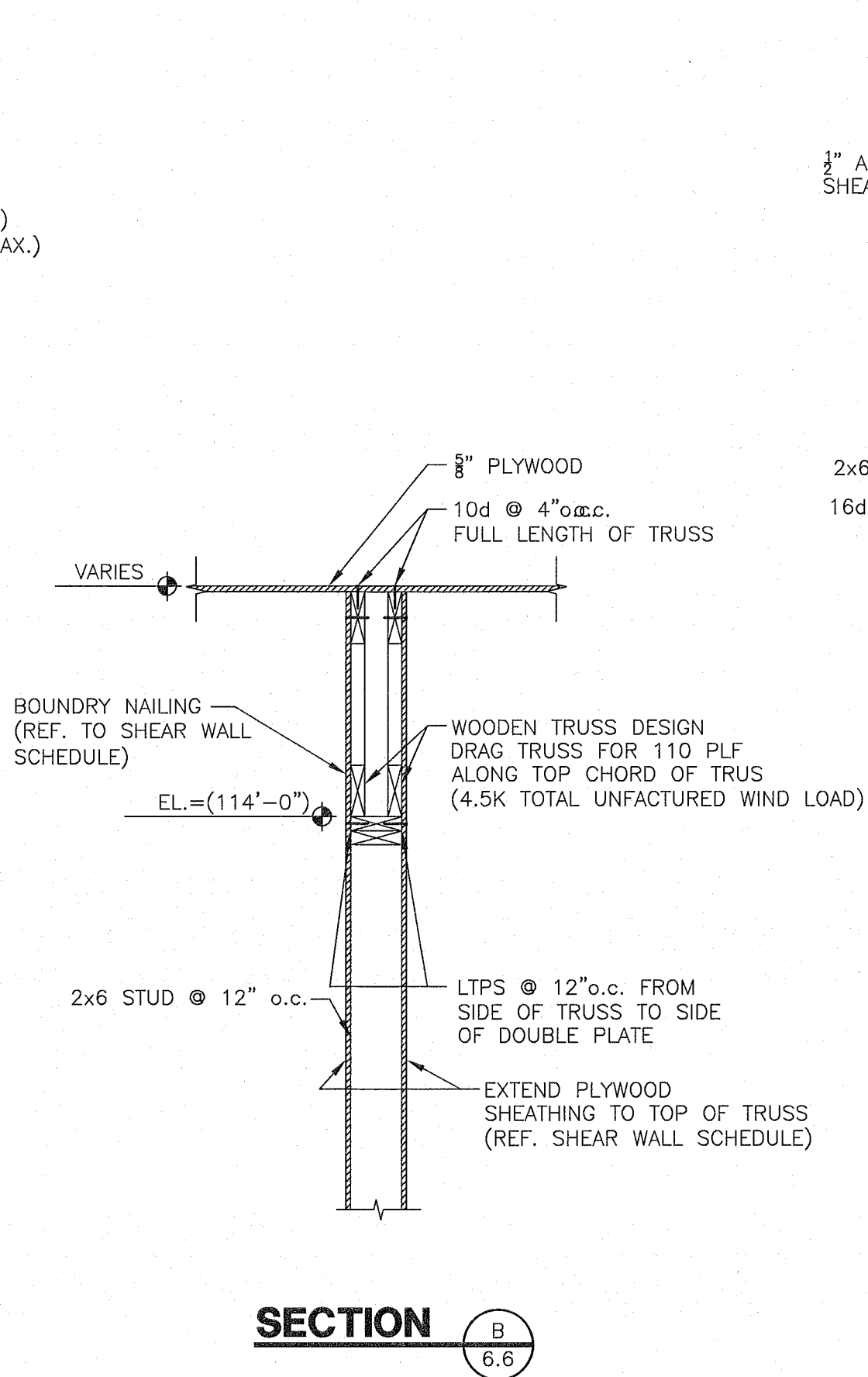
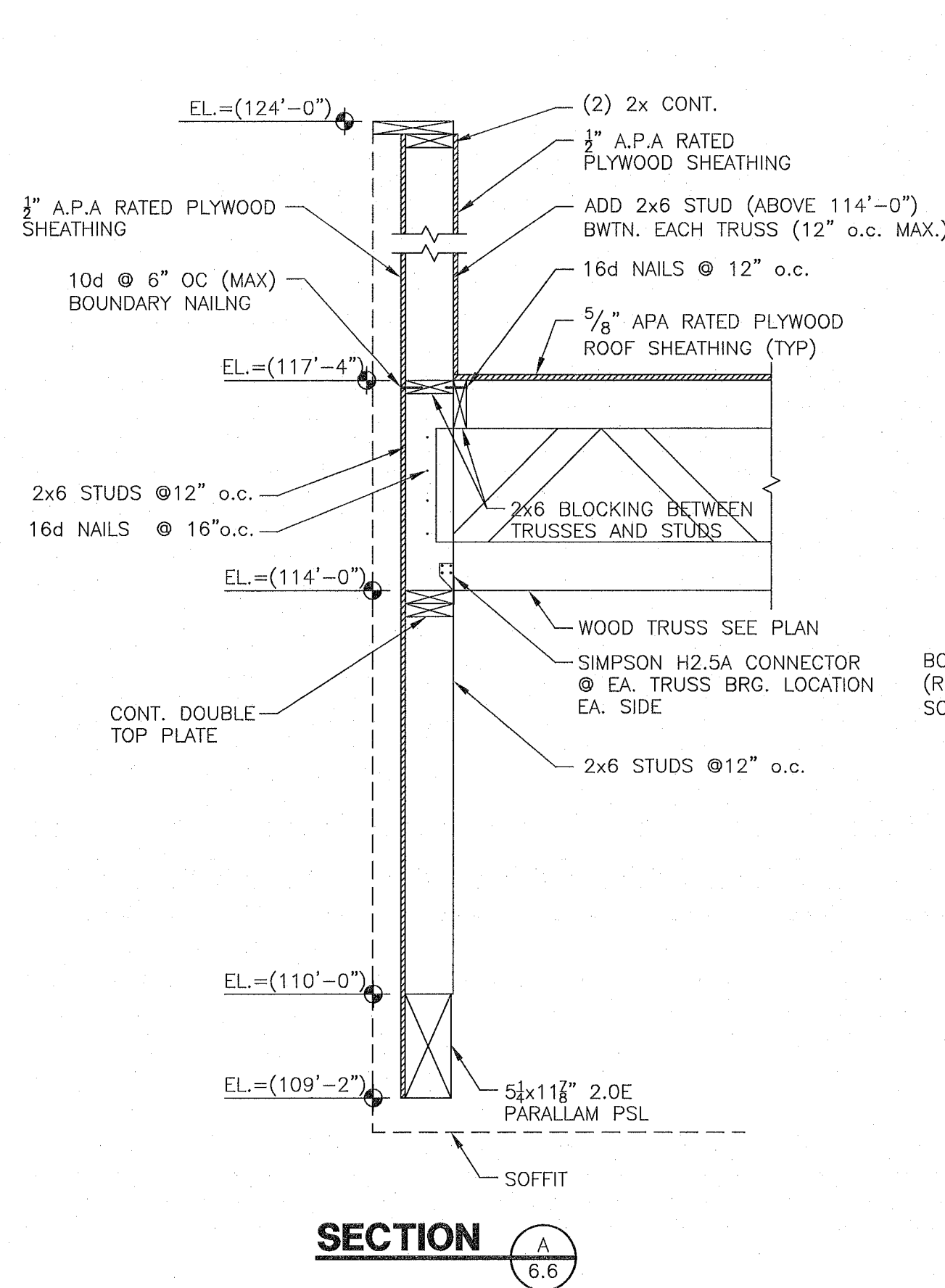


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DATE: 11.23.21
JOB NO: 21234
DRAWN BY: MMF
SHEET NUMBER:

6.5

OF



REVISIONS:

SECTIONS AND DETAILS
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STATE OF KENTUCKY
REGISTERED PROFESSIONAL ENGINEER
BRIAN SCOTT
21234
11/23/21

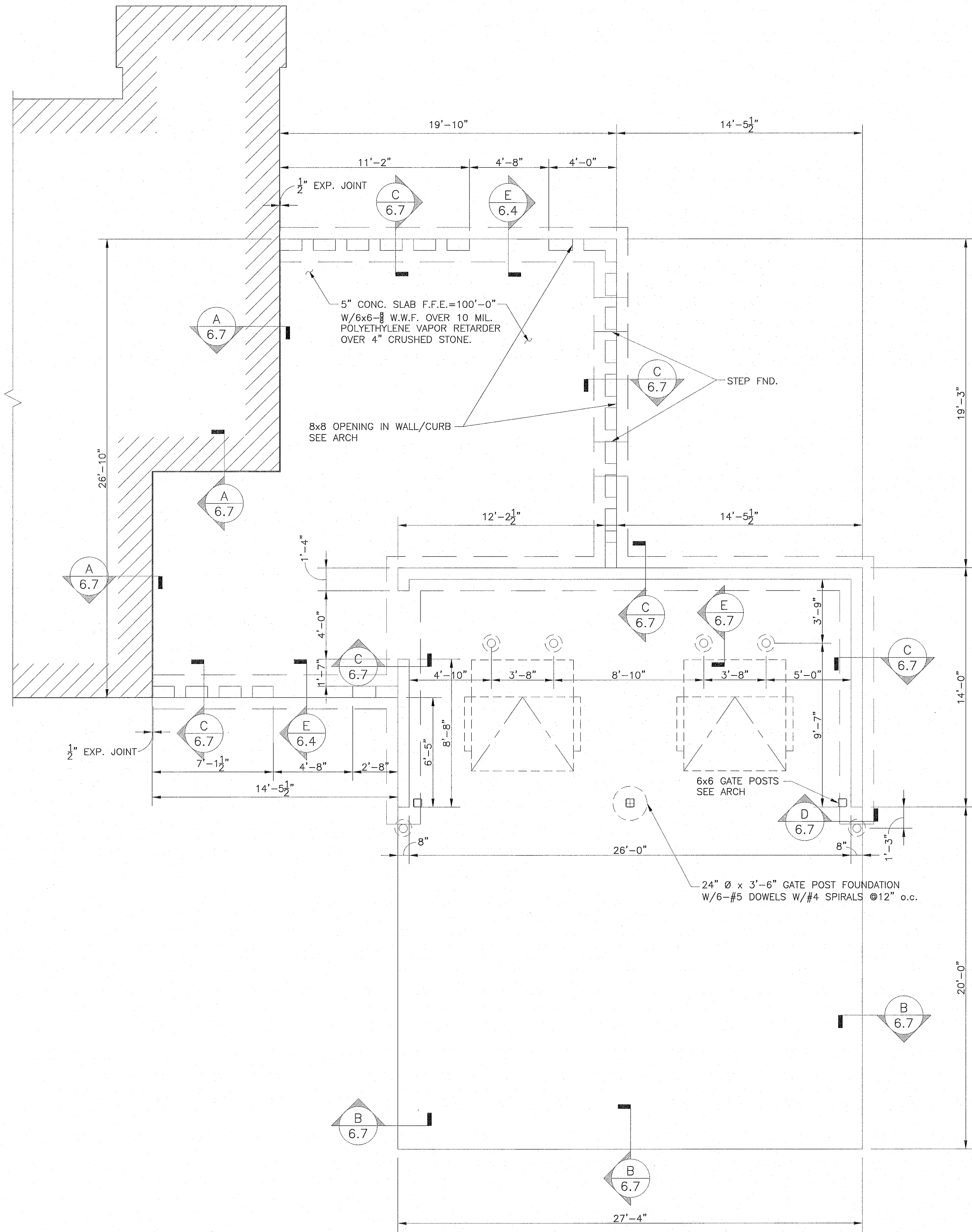
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DATE: 11.23.21
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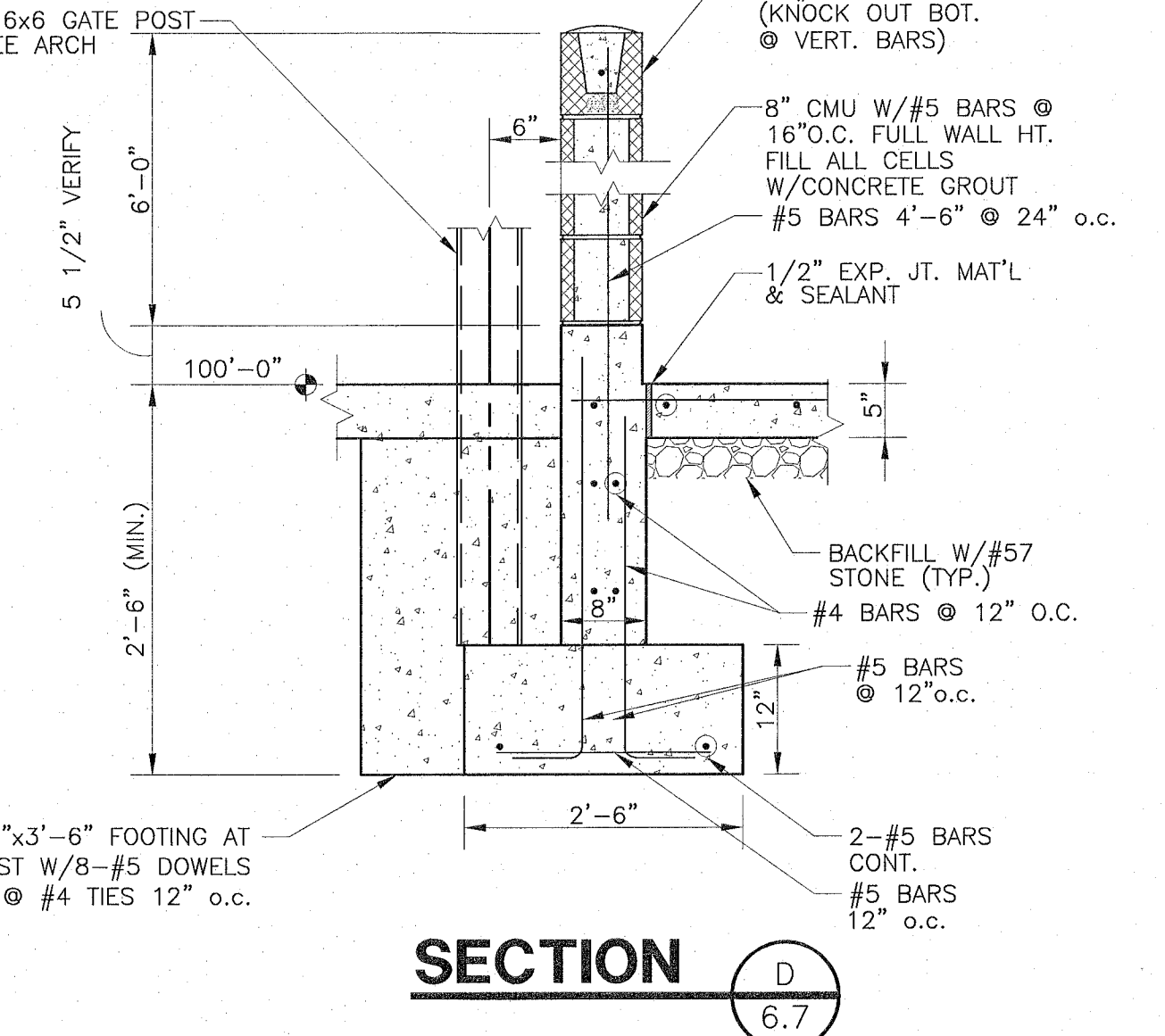
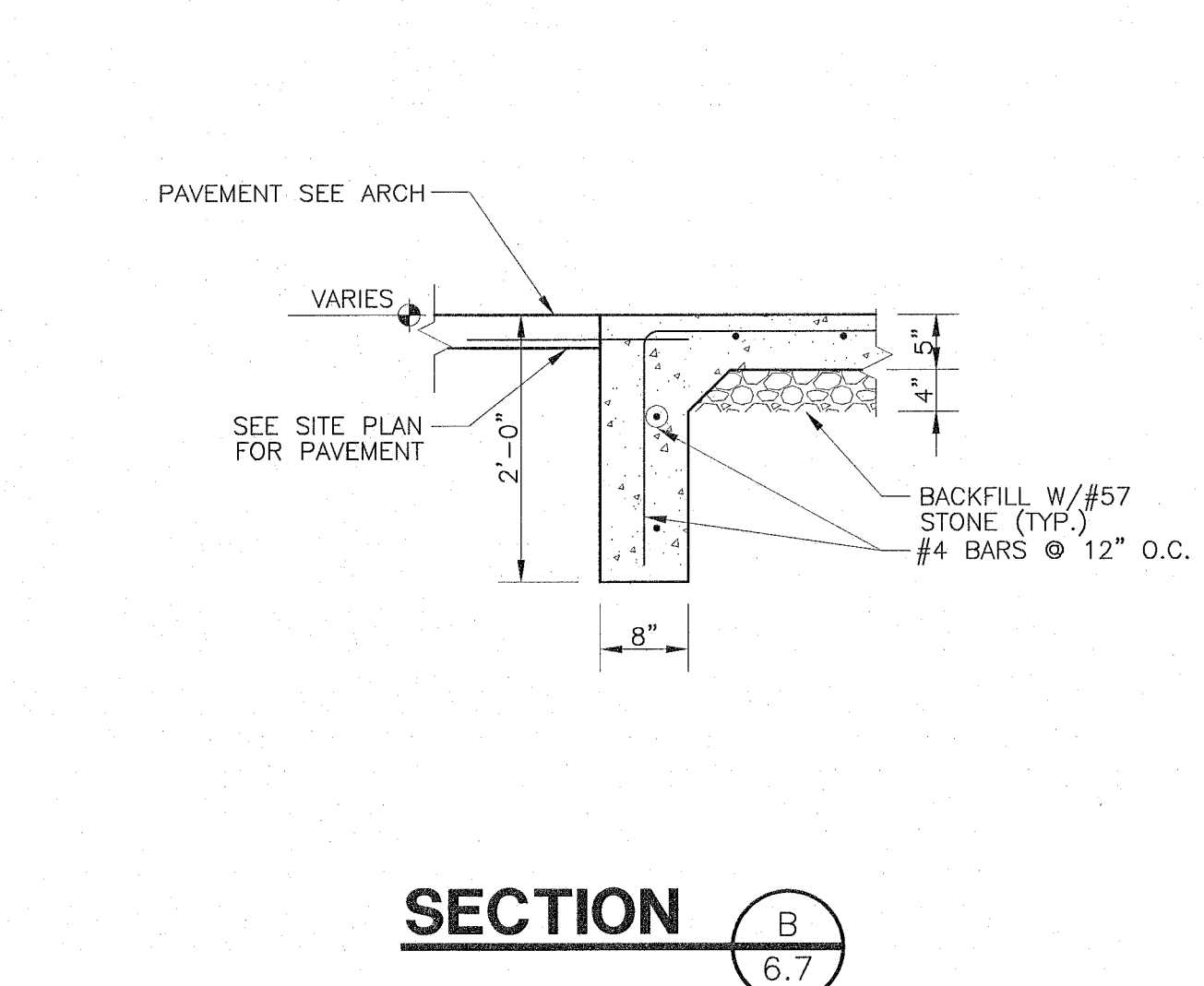
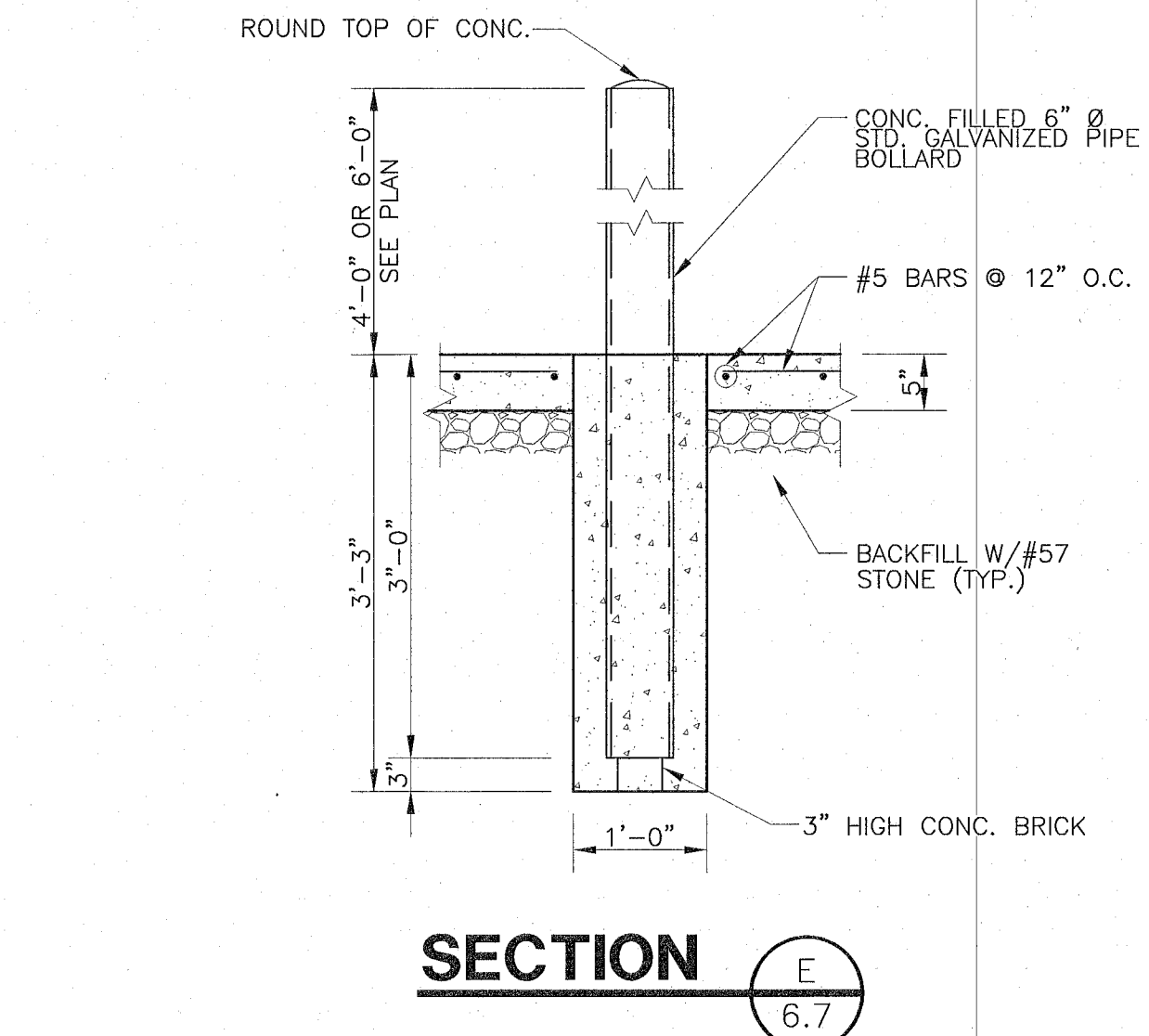
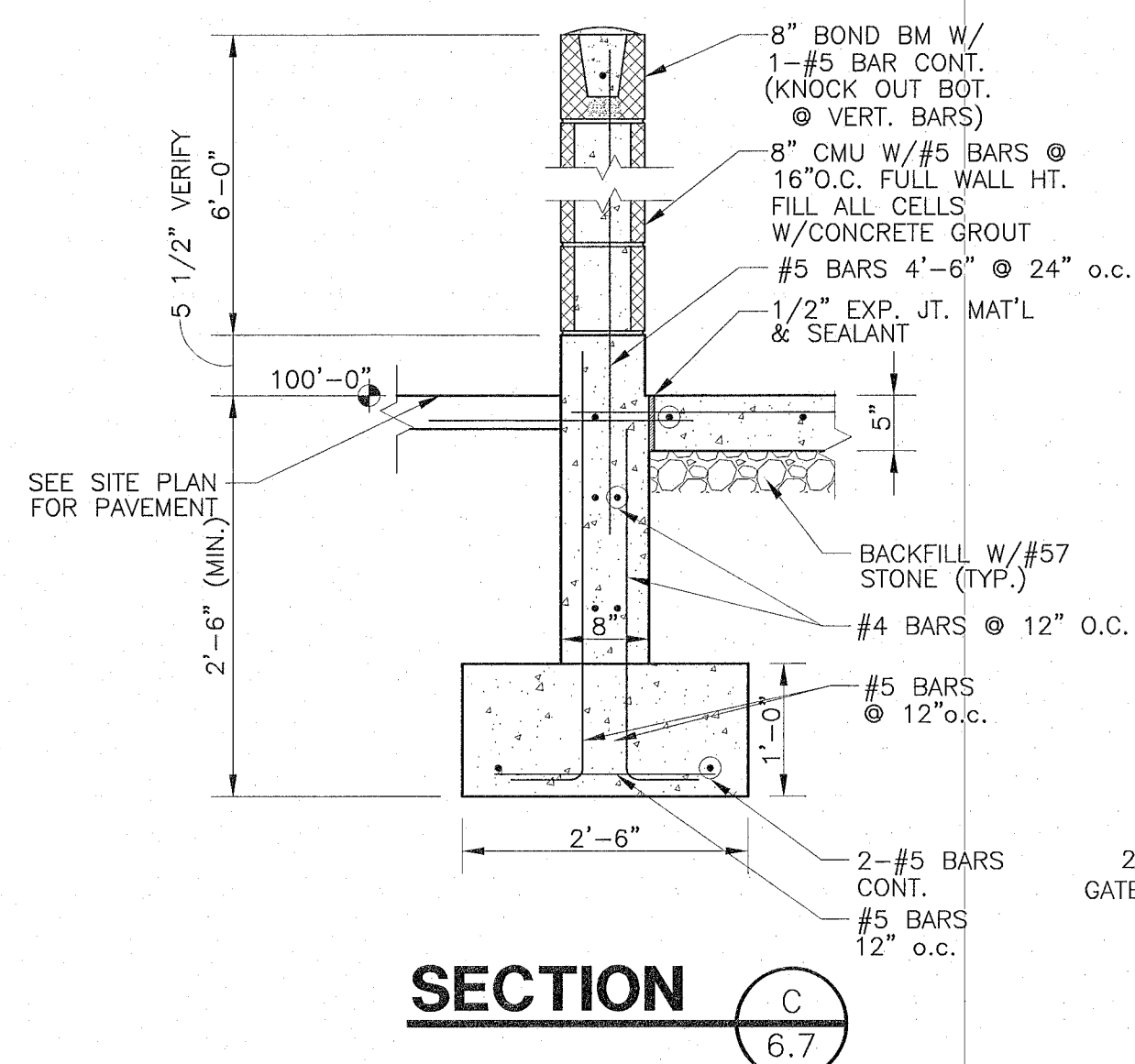
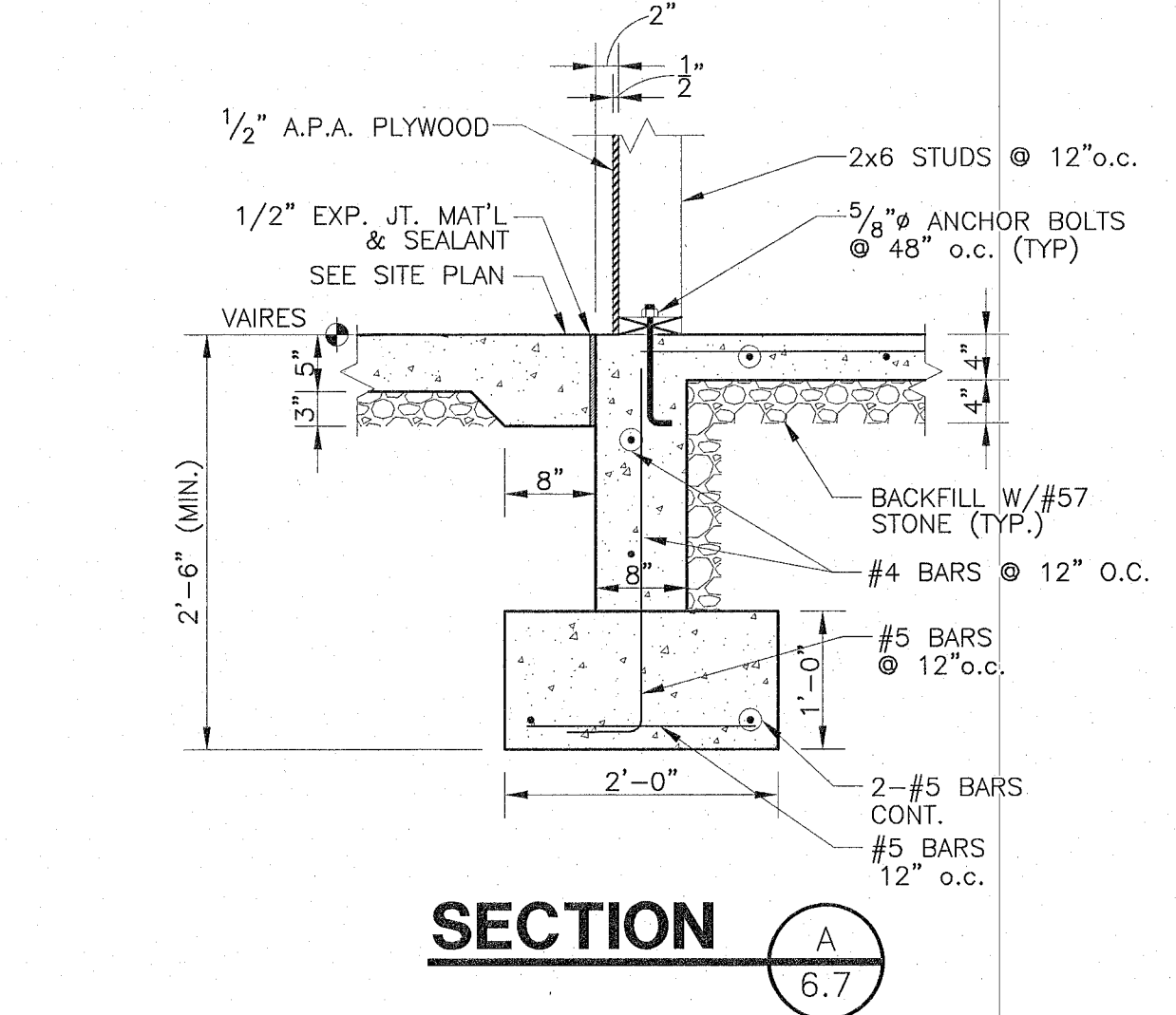
6.6

OF



DUMPSTER FOUNDATION PLAN

NOTE: DIMENSIONS ARE TO FACE OF FOUNDATION WALL AND NOT CMU



NOTE: INCORPORATE GATE POST FOUNDATION INTO WALL FOUNDATION

- MASONRY WALL REINFORCEMENT:**
- MIN-1 PROVIDE GROUTED REINFORCED VERTICAL CELLS AND HORIZONTAL BOND BEAM AT WALL TOP EDGES, CORNERS, AND FREE ENDS, AND OTHER LOCATIONS WHERE SHOWN ON ARCHITECTURAL AND STRUCTURAL DRAWINGS. REINFORCE EACH GROUTED CELL AND BOND BEAM WITH 1-#4 BAR (MIN) CONTINUOUS. (UNLESS SHOWN OTHERWISE SECTIONS) PROVIDE MATCHING DOWELS IN FOUNDATION FOR VERTICAL REINFORCEMENT. VERTICAL STEEL SHALL OVERLAP DOWELS AND SPLICES A MINIMUM OF 40 BAR DIAMETERS AND SHALL EXTEND A MINIMUM OF 6" INTO BOND BEAM AT TOP OF WALL.
 - MIN-2 REFER TO SECTIONS FOR REINFORCEMENT IN WALLS.
 - MIN-3 CMU SHALL HAVE UNIT STRENGTH OF 1900 PSI WITH A MINIMUM LINEAR SHRINKAGE OF 0.06% CONFORMING TO ASTM C90 GRADE N, TYPE 1, AND A MAXIMUM WEIGHT OF 105 PCF (DRY). USE TYPE S MORTAR. PREPARE IN ACCORDANCE WITH ASTM C270 BY PROPORTION. (NO PRISM TESTS REQUIRED BUT RANDOM CHECK PROPORTIONS DAILY AND CONFORM IN WRITING AS PER IBC TABLE 1704.5.1 ITEM 1a). REINFORCED CMU SHALL HAVE A MINIMUM COMPRESSIVE WALL DESIGN STRENGTH OF $f_m = 1500$ PSI. GROUT FOR FILLED CELLS IN WALL SHALL BE MADE OF CEMENT, SAND AND PEA GRAVEL IN APPROXIMATE RATION OF 1:3:2 COMPLYING WITH ASTM C476 AND HAVE A SLUMP OF 8" TO 11". (ASTM C270: BY PROPORTION) REFER TO SECTION FOR CONCRETE FILLED CMU COLUMNS
 - MIN-4 UNLESS NOTED ON PLANS, ALL NON-PAINTED CMU WHICH IS TO BE PERMANENTLY EXPOSED TO WEATHER, ADD WATER REPELLENT TO MIX FOR CMU AND FOR MORTAR WATER REPELLENT TO BE "DRY-BLOCK" BY W. R. GRACE, OR APPROVED EQUIVALENT.
 - MIN-5 REBAR POSITION SHALL BE USED TO LOCATE BARS IN THE CENTER OF THE CELLS; AT A 1 FT. OFF SLAB, 2 FT FROM TOP, AND A MAXIMUM SPACING OF 200 BAR DIAMETERS.
 - MIN-6 ALONG TOP OF ALL CMU WALLS: PROVIDE A CONTINUOUS CONCRETE FILLED MASONRY BOND BEAMS (8 INCH MIN DEPTH). REINFORCE WITH 2-#4 BARS. PROVED CORNER BARS.
 - MIN-7 SINGLE WYTHE WALLS: USE 2 WIRE TRUSS TIES (9 SIDED AND CROSS RODS) MASONRY WALLS REINFORCEMENT AT 16 INCHES O.C. VERTICALLY, WITH 6 INCH OVERLAPS. FIRST TIE LAYER TO BE ON THE FOUNDATION
 - MIN-8 JOINT REINFORCEMENT SHALL BE PLACED SO THAT LONGITUDINAL WIRES ARE CENTERED ON THE WALL OR WYTHE AND ARE FULLY EMBEDDED IN MORTAR FOR THERE ENTIRE LENGTH.
 - MIN-9 JOINT REINFORCEMENT SHALL BE LAPPED 6 INCHES OR MORE FOR DEFORMED LONGITUDINAL WIRES AND 12 INCHES OR MORE SMOOTH LONGITUDINAL WIRES.

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OF

SECTION 230000 - HVAC GENERAL CONDITIONS

1.01 APPLICABILITY

A. This section supplements all sections of the Specifications for Division 23 and shall apply to all phases of work hereinafter specified, shown on the Drawings, or required to provide a complete installation of approved HVAC systems.

1.02 DEFINITIONS

A. "Work" is hereby defined as, "The construction and services required by the Contract Documents whether completed or partially completed and includes all labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The work may constitute the whole or a part of the project."

B. "Furnish" is hereby defined as, "To supply and deliver, unload, and inspect for damage."

C. "Install" is hereby defined as, "To unpack, assemble, erect, apply, place, finish, cure, protect, clean, connect, and place into operation into the work."

D. "Provide" is hereby defined as, "To furnish and install."

E. "Connect" is hereby defined as, "To bring service to the equipment and make final attachment including necessary ductwork, piping, wiring, etc."

F. "Concealed" is hereby defined as, "Hidden from sight in chases, furred spaces, shafts, hung ceilings, embedded in construction, in crawl spaces, or buried."

G. "Exposed" is hereby defined as, "Not installed underground nor concealed as defined by the Specifications."

H. "Drawings" is hereby defined as, "All plans, details, equipment schedules, diagrams, sketches, etc., issued for the construction of the work."

1.03 CODES AND STANDARDS

A. Perform work in accordance with the applicable Building Code, Electrical Code, Fire Code, Mechanical Code, Plumbing Code, Energy Code, and all other applicable codes, amendments, and ordinances. Also perform all work in accordance with the Americans with Disabilities Act (ADA) and the Authority Having Jurisdiction (AHJ) including Fire Marshall(s).

B. Perform work in accordance with Landlord requirements, including any Tenant Criteria Manuals and Lease Exhibits, where applicable.

C. Perform work in accordance with the applicable utility companies serving the project. Make all arrangements with the utility companies for proper coordination of the work.

D. Recognized Standards: Design, manufacture, testing and method of installation of all apparatus and materials furnished under the requirements of these Specifications shall conform to the latest publications or standard rules of Underwriters Laboratories, Inc. (U.L.), American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), and National Electrical Code (NEC), National Fire Protection Association (NFPA), American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), and the Sheet Metal and Air Conditioning Contractors National Association (SMACNA).

E. The Contract Documents shall take precedence where the Contract Documents exceed code, Landlord, utility, or recognized standards requirements.

1.04 PERMITS AND FEES

A. Permits, licenses, fees, inspections and arrangements required for the work under this Contract shall be obtained by the Contractor at his expense, unless otherwise indicated.

1.05 CONTRACT DRAWINGS

A. The Contractor is responsible to obtain, fully understand, and coordinate the work with the complete set of Contract Documents. Any required conditions, including all associated costs, arising from issues caused by the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility.

B. Work under these sections is diagrammatically unless indicated otherwise and is intended to convey the scope of work, including the general arrangement of ductwork, piping, equipment, and accessories. Follow these drawings in laying out the work and verify spaces for the installation of these materials and equipment. Whenever a question exists as to the exact intended location of ductwork, piping, or equipment, obtain instructions from the Architect before proceeding with the work.

C. Notify the Architect for resolution if a discrepancy is discovered within the Contract Documents. Failure of the Contractor to notify the Architect of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect's review and possible rejection. Should the Architect reject a discrepancy resolution of which they were not notified, the Contractor is fully responsible for the installation of the work, including all associated costs, until approval of the installation is given by the Architect.

1.06 EXISTING CONDITIONS

A. Verify all existing conditions prior to beginning work.

B. Any existing conditions indicated in the Contract Documents are based on information drawings provided by others and possibly limited field verification. The Contractor shall adjust for actual field conditions at all additional expense to the Owner.

C. The Contractor shall visit the project site, review existing conditions against the Contract Documents, and familiarize himself with the work prior to bidding and start of the work. By signing the Contract, the Contractor acknowledges the site visit has been completed and the existing conditions are accepted.

D. The Contractor shall notify the Architect of major discrepancies in writing so the appropriate modifications to the design can be made without delay to the project. The Contractor assumes full responsibility of adjusting for discrepancies of which the Architect is not informed.

1.07 SUBMITTALS

A. Shop Drawings:

1. Furnish the Architect shop drawing portfolio containing names of manufacturer and out sheets of equipment to be used on the project. Use manufacturer's specification sheets identified by number indicated on drawings or schedules. Indicate catalog number on the cut sheets. As applicable, provide construction data, weight and dimensional data, voltage ratings, performance data, efficiency, pump curves, fan curves and sound data as part of the shop drawing submission.

2. Submittals are reviewed only for general compliance with the Contract Documents. Dimensions, quantities and details are not a prerequisite to inclusion in the Contract. Equipment and accessories specified in other locations shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system, including all required components reasonably inferred to be necessary although such components may or may not be specifically indicated in the Contract Documents.

3. Electrical Characteristics: Verify that proper power supply is available prior to ordering equipment. Verify proper voltage, phase and current rating of power supply and inform Engineer of any deviations prior to order, connection of equipment or start-up. Responsibility for verification of proper power supply voltage and any product returns or damage resulting from incorrect connections shall rest with this Contractor.

B. Project Record Documents: Provide as specified.

C. Operation and Maintenance Data: Include manufacturer's descriptive literature, operating instructions, installation instructions, maintenance and repair data, and parts listing.

D. Test Reports: Provide as specified.

1.08 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum five years experience.

B. Installer Qualifications: Company specializing in performing the work of this section, with minimum five years experience.

C. Products:

1. Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated.

D. All equipment and components shall be free of all rust/ corrosion or any visible damage. All items not complying with this requirement shall be replaced without any change in the Contract amount.

E. Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in other locations shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system, including all required components reasonably inferred to be necessary although such components may or may not be specifically indicated in the Contract Documents.

F. Code or utility company requirements shall supersede any conflicting requirements of this section.

1.09 DELIVERY, STORAGE, AND HANDLING

A. Roofing Equipment: Protect units from physical damage by storing off site until roofing curbs are in place, ready for immediate installation on units.

B. Protect insulation from weather and construction traffic, dirt, water, chemical, and mechanical damage, by storing in original wrapping.

C. Protect dampers and accessories from damage to operating linkages, blades and finishes.

D. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

E. Protect motors stored on site from weather and moisture by maintaining factory covers and suitable weather-proof covering. For extended outdoor storage, remove motors from equipment and store separately.

1.10 WARRANTY AND GUARANTEE

A. Submittal manufacturer's warranty and ensure forms have been filled out in Owner's name and registered with manufacturer.

B. Provide one year manufacturer warranty for pumps.

C. Provide three year manufacturers warranty for solid state ignition modules.

D. Provide five year manufacturers warranty for compressors, heat exchangers, condensing units, and electronic air cleaners.

1.11 SUBSTITUTIONS

A. The manufacturers listed are listed to set minimum standards for quality, design, and functionality. The products of other manufacturers may be used at the discretion of the Contractor's option, during shop drawing review unless indicated otherwise. The products of other manufacturers shall meet or exceed all requirements of the Contract Documents. The Contractor accepts all responsibility for costs and coordination issues arising out of the substitution of materials or equipment, and the coordination of such substitutions with all other contractors and subcontractors.

B. The Contractor may use any of the following ductwork, piping or insulation materials at his option, provided the selected material meets with the approval of all State, local authorities and any utility company requirements. Verification of

compliance of the selected material is the sole responsibility of the installing Contractor.

1.12 EXECUTION

1.01 COORDINATION OF WORK

A. Examine the Contract Documents as a whole for the work of other trades. Coordinate all work accordingly.

B. Promptly report to the Architect any delay or difficulties encountered in the installation of the work, which might prevent prompt and proper installation, or make it unsuitable to connect with or receive the work of others. Failure to so report shall constitute an acceptance of the work of other trades as being fit and proper for the execution of this work.

C. Plan, lay out, and coordinate the work with all trades well enough in advance so that it proceeds with a minimum of interference to work that has not been completed and work that is in progress. Inform all trades of openings required for the work and provide all special frames, sleeves, and anchor bolts required. The HVAC system layout may be altered to suit the conditions with engineer approval, prior to the installation of any work and without additional cost to the Owner.

D. Conflicts arising from lack of coordination shall be the Contractor's responsibility.

E. Perform all work in conformity with the Contract Documents and afford other trades reasonable opportunity for the execution of their work. Properly connect and coordinate this work with the work of other trades at such time and in such a manner as to not delay or interfere with their work.

F. All roofing penetrations shall be flashed and weather sealed by the roofing manufacturer's authorized roofing contractor at this Contractor's expense. This Contractor shall contract with the factory authorized roofing contractor for the specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.

G. All temperature control wiring, thermostat wiring, damper interlock wiring, control panel interlock wiring and miscellaneous low voltage wiring associated with the equipment furnished or installed under this contract shall be furnished and installed by the mechanical contractor or his sub-contractor. All wiring installed by the Contractor shall be in full compliance with the National Electrical Code, all State and local codes and requirements of the Electrical Specifications for this project.

1.02 EXAMINATION

A. Verify field measurements are as indicated on the Drawings.

B. Verify all equipment locations prior to rough-in. Maintain adequate equipment service clearance per manufacturer and code requirements.

C. Verify routing of all ductwork and piping in field prior to fabrication or installation. Verify adequate clearance with structural, light fixtures, and ceiling heights.

D. Verify that proper fuel and power supply is available for connection.

1.03 INSTALLATION

A. Install all ductwork, pipe, equipment, and accessories to preserve fire resistance rating of partitions and other elements, using materials and methods specified.

1.04 FIELD QUALITY CONTROL

A. Provide tests as necessary to establish the adequacy, quality, safety, completed status, and suitable operation of each system. Tests shall be conducted under the supervision of the Architect.

1.05 CLEANING AND REPAIR

A. Clean fire suppression paths to remove harmful materials.

B. Clean exposed surfaces of all ductwork pipe, equipment, and accessories of all dirt, debris, splatter, and other deleterious materials. Follow the manufacturer's recommendations for cleaning as applicable.

C. Repair or replace damaged ductwork, pipe, equipment, and accessories, as directed by and to the satisfaction of the Architect, where tearing or disfigurement has occurred. All pipe, equipment, and accessories shall be new.

1.06 PROJECT CLOSEOUT

A. Project Record Documents: At project closeout, provide one printed copy and one electronic copy of project record drawings to the Owner. Information contained on project record drawings shall include, as a minimum:

1. Actual locations of all equipment, ductwork, air inlets/outlets, accessories, etc.

2. Actual routing of ductwork with sizes and elevations.

3. Actual locations of control devices including valves and volume dampers.

4. Operation and Maintenance Data: At project closeout, submit to the Architect two copies of descriptive literature, maintenance and operation data for all hvac equipment, control systems, accessories, and materials used. Include maintenance procedures, intervals, and parts list of each item installed under this contract. Include all manufacturer's guarantees and warranties.

C. Maintenance Materials: At project closeout, furnish to the Owner the following:

1. One set of replacement filters for all hvac equipment.

2. The maintenance contract for the hvac system, if applicable.

D. Test Reports: At project closeout, submit to the Architect two copies of the following:

1. Testing, Adjusting and Balancing Report

END OF SECTION

SECTION 230548 - VIBRATION AND SEISMIC CONTROLS FOR HVAC PIPING AND EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Vibration Isolators.

B. Seismic restraints.

C. Firms, axial and centrifugal

1.02 SUBMITTALS

A. Product Data: Provide schedule of vibration isolator type with location and load on each isolator.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Isolation Technology, Inc.; Kmetz Noise Control, Inc.; Mason Industries.

2.02 VIBRATION ISOLATORS

A. Restrained Open Spring Isolators:

1. Springs: Minimum horizontal stiffness equal to 75 percent vertical stiffness, with working deflection between 0.3 and 0.6 of maximum deflection. Color code springs for load carrying capacity.

2. Spring Mounts: Provide with leveling devices, minimum 0.25 inch thick neoprene sound pads, and zinc chromate plated hardware.

3. Sound Pads: Size for minimum deflection of 0.05 inch; meet requirements for leveling devices.

4. For Exterior and Humid Areas: Hot dipped galvanized housings and neoprene coated springs.

B. Spring Hanger:

1. Springs: Minimum horizontal stiffness equal to 75 percent vertical stiffness, with working deflection between 0.3 and 0.6 of maximum deflection. Color code springs for load carrying capacity.

2. Housings: Incorporate neoprene isolation pad meeting requirements for neoprene pad isolators or rubber hanger with threaded insert.

3. Misalignment: Capable of 20 degree hang and misalignment.

4. For Exterior and Humid Areas: Hot dipped galvanized housings and neoprene coated springs.

C. Neoprene Pad Isolators:

1. Rubber or neoprene waffle pads.

a. Hardness: 30 durometer.

b. Thickness: Minimum 1/2 inch.

c. Maximum Loading: 50 psi.

d. Rise Height: Maximum 0.7 times width.

2. Configuration: Single layer.

D. Rubber Mount or Hanger: Molded rubber designed for 0.4 inch deflection with threaded insert.

E. Glass Fiber Pads: Neoprene jacketed pre-compressed molten glass fiber.

2.03 SEISMIC RESTRAINTS

A. Type: Non-directional and double acting unit consisting of interlocking steel members restrained by neoprene elements.

B. Elements: Replaceable neoprene, minimum of 0.75 inch thick with minimum 1/8 inch air gap.

C. Capacity: 4 times load assigned to mount groupings at 0.4 inch deflection.

D. Attachment Points and Fasteners: Capable of withstanding 3 times rated load capacity of seismic snubber.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. On closed spring suspension, adjust so side stabilizers are clear under normal operating conditions.

C. Prior to making piping connections to equipment with operating weights substantially different from installed weights, block up equipment with temporary shims to final height. When full load is applied, adjust isolators to load to allow shim removal.

D. Support piping connections to equipment mounted using isolators or resilient hangers to nearest flexible pipe connector.

E. Provide flexible connections on all piping and ductwork connections to equipment. Refer to other sections of this Specification for the acceptable types of flexible connectors to be used.

3.02 SCHEDULES

A. Equipment Isolation Schedule (Minimum deflection as sized by the isolation equipment manufacturer):

1. Fans, axial and centrifugal

a. Small fans up to 22" diameter wheel:

1) Rubber Mount or Hanger

2. Packaged roof top equipment:

a. Above grade roof structures:

1) Base: Root Curb.

2) Isolation: Full perimeter Neoprene Pad between curb and units. Provide restrained spring vibration isolation curbs when indicated on the Drawings.

END OF SECTION

SECTION 230593 - TESTING, ADJUSTING, AND BALANCING FOR HVAC

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Testing, adjustment, and balancing of air systems.

1. Air handling units, packaged heating and/or cooling equipment, Fans, (Exhaust and supply) Coils, Terminal equipment; Air inlets and outlets, (Diffusers, grilles, louvers, etc.)

B. Measurement of final operating condition of HVAC systems.

C. Independent agency requirements: Test and Balance Contractor shall be 3rd party to the GC. Provide report to the Owner and Mechanical Engineer for review before turnover.

1.02 SUBMITTALS

A. Qualifications: Submit name of testing and balancing agency and TAB supervisor for approval within 30 days after award of Contract. Provide TAB Agency qualifications.

B. Final Report: Indicate deficiencies in systems that would prevent proper testing, adjusting, and balancing of systems and equipment to achieve specified performance.

1. Submit to the Construction Manager within two weeks after completion of testing, adjusting, and balancing.

2. Provide reports in bound manuals, complete with index page and indexing tabs, with cover identification at front and side. Include set of detailed drawings with air outlets and equipment identified to correspond with data sheets, and indicating thermostat and equipment locations.

3. Include actual instrument list, with manufacturer name, serial number, and date of calibration.

4. Form of Test Reports: Where the TAB standard being followed recommends a report format use that, otherwise, follow ASHRAE Std 111 (2008).

5. Include the following on the title page of each report:

a. Name, address and telephone number of Testing, Adjusting, and Balancing Agency.

b. Project Name, location; Engineer, Contractor, Report date.

1.03 WARRANTY

A. The Balancing Contractor shall be prepared to return to the site at no additional cost to re-adjust air quantities as required to provide uniform temperatures, eliminate drafts and objectionable noises during the first year of occupancy, including one full heating and one full cooling season, after the acceptance of the final balancing report.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 GENERAL REQUIREMENTS

A. Perform total system balance in accordance with one of the following:

1. AABC, MIN-1, AABC National Standards for Total System Balance.

2. ASHRAE Std 111, Practices for Measurement, Testing, Adjusting and Balancing of Building Heating, Ventilation, Air-Conditioning, and Refrigeration Systems.

3. NEBB Procedural Standards for Testing Adjusting Balancing of Environmental Systems.

4. SMACNA HVAC Systems Testing, Adjusting, and Balancing.

B. Begin work after completion of systems to be tested, adjusted, or balanced and complete work prior to Substantial Completion of the Project.

C. Where HVAC systems and/or components interface with life safety systems, including fire and smoke detection, alarm, and control, coordinate scheduling and testing and inspection procedures with the authorities having jurisdiction.

D. TAB Agency Qualifications:

1. Company specializing in the testing, adjusting, and balancing of systems specified in this Section with a minimum of five years experience.

2. Certified by one of the following:

a. AABC, Associated Air Balancing Council; upon completion submit AABC National Performance Guaranty.

b. NEBB, National Environmental Balancing Bureau.

c. TABB, The Testing, Adjusting, and Balancing Bureau of National Engineering Institute.

3. The TAB Agency must be a completely independent, third party balancing contractor with no financial, common owners or other ties to the installing contractors.

E. TAB Supervisor and Technician Qualifications: Certified by same organization as TAB agency.

3.02 ADJUSTMENT TOLERANCES

A. Air Handling Systems, Air Outlets and Inlets, Hydronic Systems: Adjust to within plus or minus 10 percent of ASHRAE and NEBB standards.

3.03 RECORDING AND ADJUSTING

A. Permanently mark settings on all valves, dampers, and other adjustment devices allowing settings to be restored. Set and lock memory stops.

B. Mark on the Drawings the locations where traverse and other critical measurements were taken and cross reference the location in the final report.

3.04 AIR SYSTEM PROCEDURE

A. Adjust air handling and distribution systems to provide required or design supply, return, and exhaust air quantities.

B. Make air quantity measurements in ducts by Pitot tube traverse of entire cross section at area of duct.

C. Measure air quantities at air inlets and outlets.

D. Adjust distribution system to obtain uniform space temperatures free from objectionable drafts and noise.

E. Use volume control devices to regulate air quantities up to extent that adjustments do not create objectionable air motion or sound levels. Effect volume control by duct internal devices such as dampers and splitters. Do not use diffuser, grille or register internal dampers for balancing adjustments unless the plans do not indicate duct mounted devices.

F. Vary total system air quantities by adjustment of fan speeds. Provide drive changes required at no additional expense to the Owner. Vary branch air quantities by damper regulation.

G. Measure static air pressure conditions on air supply units, including filter and coil pressure drops, and total pressure across the fan. Make allowances for 50 percent loading of filters.

H. Adjust outside air automatic dampers, outside air, return air, and exhaust dampers for design conditions in all operating modes as indicated in the sequence of control.

I. Measure temperature conditions across outside air, return air, and exhaust dampers to check leakage.

J. Where modulating dampers are provided, take measurements and balance at extreme conditions and at all intermediate operating conditions specified in the sequence of control. Balance variable volume systems at maximum air flow rate, full cooling, and at minimum air flow rate, full heating.

3.05 SCOPE

A. Equipment Requiring Testing, Adjusting, and Balancing (if present on the project):

1. HVAC Pumps; Boilers; Air Handling Equipment; All Packaged Heating and/or Cooling Equipment; All Cold Air Heat Exchangers; Terminal Heat Transfer Units; Air Terminal Units; Air Inlets and Outlets.

3.06 MINIMUM DATA TO BE REPORTED

A. Report (as applicable to the project):

1. Summary Comments:

a. Design versus final performance.

b. Notable characteristics of system.

c. Summary of outdoor and exhaust flows to indicate amount of building pressurization.

d. Nomenclature used throughout report and test conditions.

B. Electric Motors and drives:

1. Manufacturer; Model/Frame; HP/BHP; Phase, voltage, amperage; nameplate, actual, no load; RPM; Service factor; Sheave Make/Size/Bore.

2. V-Belt Drives: Identification/location; Required driven RPM; Driven sheave, diameter and RPM; Belt, size and quantity.

C. Cooling and Heating Coils:

1. Identification/number; Manufacturer.

2. Air flow, design and actual.

3. Air pressure drop, design and actual.

4. Entering and leaving air DB and WB temperature, design and actual.

5. Water flow, design and actual (if applicable).

6. Water pressure drop, design and actual (if applicable).

7. Entering and leaving water temperature, design and actual (if applicable).

D. Air Moving Equipment:

1. Manufacturer; Model number; Serial number; Arrangement/Class/Discharge.

2. Air flow, specified and actual.

3. Inlet, Discharge, Total static pressure (total external), specified and actual.

E. Air Distribution Tests:

1. Air terminal number.

2. Room number/location.

3. Terminal type.

4. Terminal size.

5. Area factor.

6. Design velocity.

7. Design air flow.

8. Test (fm) velocity.

9. Test (fm) air flow.

10. Percent of design air flow.

END OF SECTION

SECTION 230713 - DUCT INSULATION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Duct insulation.

B. Duct liner.

C. Insulation jackets.

D. Supply, return or exhaust ducts in ceiling spaces.

E. Supply, return or exhaust ducts in interior unconditioned areas.

F. Supply, return or exhaust ducts in exposed locations.

1.02 FIELD CONDITIONS

A. Maintain ambient temperatures and conditions required by manufacturers of adhesives, mastic, and insulation cements.

B. Maintain temperature during and after installation for minimum period of 24 hours.

PART 2 PRODUCTS

2.01 REQUIREMENTS FOR ALL PRODUCTS OF THIS SECTION

A. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E 84, NFPA 255, or UL 723.

B. Manufacturer: Krauf Fiber Glass; Johns Manville Corporation; Owens Corning Corp.; CertainTeed Corporation.

2.02 GLASS FIBER, FLEXIBLE

A. Insulation: ASTM C 553; flexible, noncombustible blanket.

1. K value: 0.31 at 75 degrees F, when tested in accordance with ASTM C 518.

2. Maximum Service Temperature: 450 degrees F.

3. Maximum Water Vapor Sorption: 5.0 percent by weight.

B. Vapor Barrier Jacket:

1. Kraft paper with glass fiber yarn and bonded to aluminumized film, with pressure sensitive rubber based adhesive.

2. Moisture Vapor Permeability: 0.025 ngPa-s (0.02 perm inch), when tested in accordance with ASTM E 96/E 90M.

3. Secure with pressure sensitive tape.

C. Vapor Barrier Tape:

1. Kraft paper reinforced with glass fiber yarn and bonded to aluminumized film, with pressure sensitive rubber based adhesive.

D. Outdoor Vapor Barrier Mastic:

1. Vinyl emulsion type acrylic or mastic, compatible with insulation, black.

E. Tie Wire: Annealed steel, 16 gage.

2.03 DUCT LINER

A. Insulation: Incombustible glass fiber complying with ASTM 107.1; flexible blanket, rigid board, and preformed round liner board; impregnated surface and edges coated with acrylic polymer slush to be fungicidal and bacteria resistant by testing to ASTM G 21.

1. Apparent Thermal Conductivity: Maximum of 0.31 at 75 degrees F.

2. Service Temperature: Up to 250 degrees F.

3. Rated Velocity on Coated Air Side for Air Erosion: 5,000 fpm, minimum.

4. Minimum Noise Reduction Coefficients:

a. 12 inch Thickness: 0.30.

b. 1 inch Thickness: 0.45.

c. 12 inch Thickness: 0.60.

d. 2 inch Thickness: 0.70.

B. Adhesive: Waterproof, fire-retardant type.

C. Linear Fastener: Galvanized steel, self-adhesive pad or impact applied with integral, or press-on head.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions and NAIMA National Insulation Standards.

B. Insulate Ductwork:

1. Provide insulation with vapor barrier jackets.

2. Finish with tape and vapor barrier jacket.

3. Continue insulation through walls, sleeves, hangers, and other duct penetrations.

4. Insulate entire system including fittings, joints, flanges, fire dampers, flexible connections, and expansion joints.

C. Insulated ducts conveying air above ambient temperature:

1. Provide with outdoor vapor barrier jacket.

2. Insulate fittings and joints. Where service access is required, bevel and seal ends of insulation.

D. Seal Duct Insulation Application:

1. Secure insulation with vapor barrier with wires and seal jacket joints with vapor barrier adhesive or tape to match jacket.

2. Secure insulation without vapor barrier with staples, tape, or wires.

3. Install without sag on underside of duct. Use adhesive or mechanical fasteners where necessary to prevent sagging. Lift duct off trapeze hangers and insert spacers.

4. Seal vapor barrier penetrations by mechanical fasteners with vapor barrier adhesive.

5. Stop and point insulation around access doors and damper operators to allow operation without disturbing wrapping.

E. Seal and Plenum Liner Application:

1. Adhere insulation with adhesive for 50 percent coverage.

2. Secure insulation with mechanical liner fasteners. Refer to SMACNA HVAC Duct Construction Standards - Metal and Flexible for spacing.

3. Seal and smooth joints. Seal and coat traverse joints.

4. Seal liner surface penetrations with adhesive.

5. Duct dimensions indicated are net inside dimensions required for air flow. Increase duct size to allow for insulation thickness.

3.02 SCHEDULES

A. The Contractor may use any of the following insulating materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected insulating material and thickness with all State and local codes and utility company requirements is the sole responsibility of the installing Contractor.

B. Supply air ducts in ceiling spaces:

1. Flexible Glass Fiber Duct Insulation: 2 inches thick.

2. Flexible Glass Fiber Duct Liner Insulation: 1-1/2 inches thick.

C. Supply, return or exhaust air ducts in crawl spaces, attics or other unconditioned areas:

1. Flexible Glass Fiber Duct Insulation: 3 inches thick.

D. Supply air ducts exposed in finished areas:

1. Flexible Glass Fiber Duct Liner Insulation: 1-1/2 inches thick.

E. Return or exhaust air ducts exposed in finished areas: None.

END OF SECTION

SECTION 230713.13 - GREASE DUCT FIREPROOFING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Fire resistant duct wrap for kitchen hood exhaust ventilation ducts (grease ducts).

B. Fireproofing duct penetrations through fire rated walls and floors.

1.02 MATERIALS

A. Product Data: Manufacturer's data sheets on each product to be used.

B. Certification: Evidence that the proposed fireproofing and fireproofing are acceptable to the authorities having jurisdiction.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Acceptable Manufacturer: 3M Fire Protection Products, Inc.; Unifrax FyrolWrap; Morgan Thermal Ceramics.

2.02 MATERIALS

A. Grease Duct Fireproofing: Material applied directly to metal ducts and achieving two-hour fire rated separation when tested in accordance with UL 2221 or ASTM E2336 by independent testing agency.

1. Surface Burning Characteristics: Flame spread index of 0 and smoke developed index of 0, when tested in accordance with ASTM E 84, both blanket and foil.

2. Combustibility: Non-combustible, when tested in accordance with ASTM E 136.

3. Flexibility: Capable of being formed around corners and shapes by hand.

4. Surface: Foil or other damage resistant surface, fiber not exposed after installation.

5. Accommodation For Duct Access Doors and Panels: Capable of being installed to achieve fire rating without impeding access.

6. Acceptable Product: 3M Fire Barrier Duct Wrap; fire resistant inorganic blanket encapsulated with scrim-reinforced foil facing.

B. Fasteners: Non-combustible; use one or both of the following to attach fireproofing to ducts:

1. Banding: Steel or stainless steel, 1/2 inch wide, minimum, and 0.015 inch thick, minimum, with steel banding clips.

2. Insulation Pins: Copper-coated steel impalement pins, minimum 1/2 gage, for welded attachment with galvanized steel self-locking washers, 1-1/2 inch square or diameter, or equivalent sized cup-head pins.

C. Access Panel Hardware: Galvanized threaded rods, sleeves, washers, and wing nuts as specified in manufacturer's instructions.

D. Tape: Aluminum foil tape for sealing exposed fiber edges and repairing tears in facing.

E. Fireproofing: Material tested in conjunction with fireproofing, in accordance with ASTM E 814, to achieve fire rated penetration seal at duct penetrations through fire rated assemblies.

1. Fire Rating: Same or greater than rating of penetrated assembly.

2. Acceptable Products: 3M Fire Barrier 1000 NS, 1003 SL, and 2000+ Silicone Sealants, as required by tested assembly.

PART 3 EXECUTION

3.01 EXAMINATION

A. Do not begin installation until substrates have been properly prepared.

B. If substrate preparation is the responsibility of another installer, notify Engineer of unsatisfactory preparation before proceeding.

3.02 PREPARATION

A. Clean surfaces thoroughly prior to installation.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 INSTALLATION

A. Install in strict accordance with manufacturer's instructions and as indicated on the Drawings.

B. Perform all required regulatory duct leakage and wet tests in the presence of the code official, including but not limited to light tests and smoke tests, to demonstrate the integrity of the duct construction prior to the installation of any

Insulation that prevents visual inspection of the ductwork on all sides.
C. Install fireproofing on entire surface of ducts indicated, except where Contract Documents explicitly indicate 3-sided or 2-sided installation.
D. All penetrations of ducts through fire rated assemblies (walls, doors, roofs), extend fireproofing through the opening and seal annular space between fireproofing and edge of opening with fireproofing.
E. Fasten fireproofing to ducts using either banding or insulation pins welded directly to surface of duct, do not use adhesives.
F. Install fireproofing on supports and hangers unless hanger rods are at least 3/8 inch in diameter, spaced not more than 18 inches apart, and extend along length of duct, and horizontal supports are at least 2 by 2 by 1/4 inch steel angle or equivalent SMACNA support system.
G. Access Panels: Do not block access; install fireproofing so that panel can be removed and reinstalled without damaging fireproofing.
H. Seal all cut edges and ends and repair tears in facing using aluminum foil tape.

END OF SECTION

SECTION 233100 - HVAC DUCTS AND CASINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Metal ductwork.
- B. Nonmetal ductwork.
- C. Round spiral ductwork.
- D. Double wall insulated round ductwork.
- E. Kitchen hood ductwork, Type 1 grease hoods.
- F. Kitchen hood ductwork, Type 2 non-grease vapor hoods.
- G. Dishwasher exhaust ductwork.
- H. Duct cleaning.

1.02 PERFORMANCE REQUIREMENTS

- A. No variation of duct configuration or sizes permitted except by written permission.
Size round ducts installed in place of rectangular ducts in accordance with ASHRAE table of equivalent rectangular and round ducts, only after approval of the Engineer. Sizes shown on design drawings are air dimensions. Contractor may increase duct size without engineer approval, provided all ceiling and shaft clearances can be maintained. Additional charges for increased duct size will not be accepted by the owner.
B. Report all conflicts with structure or other obstructions, prior to fabrication of any ductwork. Suitable adjustments in the sizes of ducts shall be accommodated without any additional expense to the Owner.

1.03 SUBMITTALS

- A. Shop Drawings: Indicate duct fittings, particulars such as gages, sizes, welds, and configuration prior to start of work for all systems. No ductwork shall be fabricated until engineer approved shop drawings have been received by the Contractor. Identify on ductwork shop drawings any deviations in sizes or shapes made necessary by the obstructions of other trades.
B. Test Reports: Indicate pressure tests performed. Include date, section tested, test pressure, and leakage rate, following SMACNA (LEAK) - HVAC Air Duct Leakage Test Manual.

1.04 REGULATORY REQUIREMENTS

- A. Construct ductwork to NFPA 90A, NFPA 90B, and NFPA 96 standards.
- B. Code or utility company requirements shall supersede any conflicting requirements of this Section.

1.05 FIELD CONDITIONS

- A. Do not install duct exhausters when temperatures are less than those recommended by sealant manufacturers.
- B. Maintain temperatures within acceptable range during and after installation of duct sealants.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Galvanized Steel Ducts: Hot-dipped galvanized steel sheet, ASTM A 653/A 653M FS Type B, with G90/G95 coatings.
- B. Steel Ducts: ASTM A 1008/A 1008M, Designation C5, cold-rolled commercial steel.
- C. Aluminum Ducts: ASTM B 209 (ASTM B 209M), aluminum sheet, alloy 3003-H14.
- D. Aluminum Connectors and Bar Stock: Alloy 6061-T601 or of equivalent strength.
- E. Insulated Flexible Ducts:

- 1. The Contractor may use any of the following ductwork materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected ductwork material is the sole responsibility of the installing Contractor.
2. Two ply vinyl film supported by helically wound spring steel wire, fiberglass insulation, aluminum vapor barrier film.
a. Pressure Rating: 10 inches WG positive and 1.0 inches WG negative.
b. Maximum Velocity: 4000 fpm.
c. Temperature Range: -20 degrees F to 180 degrees F.
d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.
3. Black polymer film supported by helically wound spring steel wire, fiberglass insulation, aluminumized vapor barrier film.
a. Pressure Rating: 4 inches WG positive and 0.5 inches WG negative.
b. Maximum Velocity: 4000 fpm.
c. Temperature Range: -20 degrees F to 175 degrees F.
d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.
4. Multiple layers of aluminum laminate supported by helically wound spring steel wire, fiberglass insulation, aluminumized vapor barrier film.
a. Pressure Rating: 10 inches WG positive and 1.0 inches negative.
b. Maximum Velocity: 4000 fpm.
c. Temperature Range: -20 degrees F to 210 degrees F.
d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.

- 5. UL 181, Class 1, aluminum laminate and polyester film with latex adhesive supported by helically wound spring steel wire, fiberglass insulation, aluminumized vapor barrier film.
a. Pressure Rating: 8 inches WG positive and 1.0 inches negative.
b. Maximum Velocity: 5000 fpm.
c. Temperature Range: -20 degrees F to 250 degrees F.
d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.
6. UL 181, Class 0, interlocking spiral of aluminum foil; fiberglass insulation; aluminumized vapor barrier film.
a. Pressure Rating: 8 inches WG positive or negative.
b. Maximum Velocity: 5000 fpm.
c. Temperature Range: -20 degrees F to 250 degrees F.
d. Minimum R-Value: 4.2 or greater as required by the applicable energy codes.

- E. Joint Sealers and Sealants: Non-hardening, water resistant, mildew and mold resistant.
1. Type: Heavy mastic or liquid used alone or with tape, suitable for joint configuration and compatible with substrates, and recommended by manufacturer for pressure class of ducts.
2. VOC Content: Not more than 250 g/L, excluding water.
3. Surface Burning Characteristics: Flame spread of zero, smoke developed of zero, when tested in accordance with ASTM E 84.
4. For Use With Flexible Ducts: UL labeled.
5. Ductwork Exposed to the Weather: Hard cast Versa-Flo 102, (VG-102), UL 181-AM compliant duct joint sealer, as manufactured by Celclife, with fiberglass scrim tape reinforcement on all seams and joints, lateral and longitudinal.

- F. Hanger Rod: ASTM A 36/A 36M, steel, threaded both ends, threaded one end, or continuously threaded.

2.02 DUCTWORK FABRICATION

- A. Fabricate, support and seal in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.
B. Construct T's, bends, and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows must be used, provide turning vanes. Where acoustical lining is indicated, provide turning vanes of perforated metal with glass fiber insulation.
C. Increase duct sizes gradually, not exceeding 15 degrees divergence wherever possible; maximum 30 degrees divergence upstream of equipment and 45 degrees convergence downstream.
D. Fabricate continuously welded round and oval duct fittings two gages heavier than duct gage indicated in SMACNA Standard. Joints shall be minimum 4 inch centered lap joint, brazed or electric welded. Prime coat welded joints.
E. Provide standard 45 degree lateral vye takeoffs unless otherwise indicated where 90 degree corner tee connections may be used.
F. Where ducts are connected to exterior wall louvers and duct outlet is smaller than louver frame, provide blank-out panels sealing louver area and frame. Use same material as duct, painted black on exterior side, seal to around frame and duct.

2.03 DUCT MANUFACTURERS

- A. Metal-Fab, Inc.; SEMCO Incorporated; United McGill Corporation.
- B. MANUFACTURED METAL DUCTWORK AND FITTINGS:
A. Manufacture in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated. Provide duct material, gages, reinforcing, and sealing for operating pressures indicated.

- B. Round Spiral Ducts: Machine made from round spiral lockseam duct with light reinforcing corrugations; fittings manufactured of at least two gages heavier metal than duct.
C. Double Wall Insulated Round Ducts: Round spiral lockseam duct with galvanized steel outer wall, 1 inch thick fiberglass insulation, perforated galvanized steel inner wall, fitting with solid inner wall.
D. Transverse Duct Connection System: SMACNA "E" rated rigid class connection, interlocking angle and duct edge connection system with sealant, gasket, cleats, and corner clips.

2.05 KITCHEN HOOD EXHAUST DUCTWORK, TYPE 1

- A. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and NFPA 96.
- B. Construct of 16 gage carbon steel or 18 gage stainless steel, using continuous external welded joints.

2.06 KITCHEN HOOD EXHAUST DUCTWORK, TYPE 2

- A. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and NFPA 96. Seal or weld all joints for a completely water tight

Installation.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine drawings for the Architectural, Structural, Electrical and all other trades prior to preparation of ductwork shop drawings and prior to the fabrication of any ductwork.
B. Resolve any conflicts encountered with the Engineer prior to fabrication.
C. Identify on ductwork shop drawings any deviations in sizes or shapes made necessary by the obstructions of other trades.

3.02 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
B. Duct sizes indicated are inside clear dimensions. For lined ducts, maintain sizes inside lining.
C. Install and seal metal and flexible ducts in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible.
D. Provide openings in ductwork where required to accommodate thermometers and controllers. Provide pilot tube openings where required for testing of openings, complete with metal cap with spring device or screw to ensure against air leakage. Where openings are provided in insulated ductwork, install insulation material inside a metal ring.
E. Locate ducts with sufficient space around equipment to allow normal operating and maintenance activities.
F. Use crimp joints with or without bead for joining round duct sizes 8 inch and smaller with crimp in direction of air flow.
G. Use double nuts and lock washers on threaded rod supports.
H. Connect flexible ducts to metal ducts with draw bands.
I. Support flexible duct runs every five feet in the horizontal direction to avoid dips and sags.
J. Connect terminal units to supply ducts with one foot maximum length of flexible duct. Do not use flexible duct to change direction.
K. Connect diffusers to low pressure ducts directly or with 5 feet maximum length of flexible duct held in place with strap or clamp. Longer duct lengths are acceptable if depicted on the design drawings and allowed per local code. A maximum of one 90 degree bend, or equivalent, will be allowed in flexible duct runs.

- L. During construction provide temporary closures of metal or taped polyethylene on open ductwork to prevent construction dust from entering ductwork system.
M. All exposed ducts in finished areas must be completely free from all dents or imperfections in the galvanized coating and shall be sealed CAREFULLY AND NEATLY with duct sealer completely contained within the joint. Duct wrap will not be permitted in exposed locations. If round duct is indicated in exposed locations, it must be spiral. No exposed duct sealer, tape or longitudinal joints will be accepted in exposed finished areas. Line all exposed supply air ductwork.
N. Kitchen hood exhaust, Type 1: Use stainless steel for ductwork exposed to view and stainless steel or carbon steel for ducts where concealed.
O. For all hood systems, perform all required regulatory duct leakage and weld tests in the presence of the code official, including testing of galvanized steel or aluminum smoke tests, to demonstrate the integrity of the duct construction prior to the installation of any insulation that prevents visual inspection of the ductwork on all sides.
P. Provide residue traps in kitchen hood exhaust ducts at base of vertical risers with provisions for clean out.
Q. Moisture laden vapor exhaust: Use stainless steel for ductwork exposed to view and stainless steel or Glass Fiber Reinforced Plastic where concealed and not located in return air plenums. If located in return air plenum spaces, use stainless steel ductwork. Weld or caulk all seams and joints water tight.
R. All roofing penetrations shall be flashed and weather sealed by the roofing manufacturer's authorized roofing contractor at this Contractor's expense. This Contractor shall contract with the factory authorized roofing contractor for the specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.

3.03 CLEANING

- A. Clean dust systems and force air at high velocity through duct to remove accumulated dust or clean with high power vacuum machines. To obtain sufficient air, clean half the system at a time. Protect equipment which may be harmed by excessive dust with temporary filters, or bypass during cleaning.

3.04 SCHEDULES

- A. Ductwork Material:
B. The Contractor may use any of the following ductwork materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected piping material is the sole responsibility of the installing Contractor.
1. Low Velocity Supply (Heating Systems): Galvanized Steel, Aluminum.
2. Low Velocity Supply (System with Cooling Coils): Galvanized Steel, Aluminum.
3. Return and Relief: Galvanized Steel, Aluminum.
4. General Exhaust: Galvanized Steel, Aluminum.
5. Outside Air Intake: Galvanized Steel.
6. Kitchen Hood Exhaust, Type 1: Carbon Steel, Stainless Steel, Constructed per NFPA 96.
7. Kitchen Hood Exhaust, Type 2: Galvanized Steel, Aluminum, Stainless Steel, Constructed per NFPA 96.
8. Dishwasher Exhaust: Stainless Steel, Glass Fiber Reinforced Plastic; seal or weld all joints water tight.
C. Ductwork Pressure Class:
1. Low Velocity Supply (Heating Systems): Scheduled System ESP +0.25", round up to next higher pressure class.
2. Low Velocity Supply (Systems with Cooling): Scheduled System ESP +0.5", round up to next higher pressure class.
3. Return and Relief: 1 inch.
4. General Exhaust: Scheduled System ESP +1.0", round up to next higher pressure class.
5. Outside Air Intake: 1 inch.
6. Kitchen Hood Exhaust: See drawings for maximum fan static pressure plus 50% additional.
7. Dishwasher Exhaust: 2 inch.

END OF SECTION

SECTION 233300 - AIR DUCT ACCESSORIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Air turning devices/extractors.
- B. Volume control dampers.
- C. Flexible duct connections.
- D. Duct access doors.

PART 2 PRODUCTS

2.01 AIR TURNING DEVICES/EXTRACTORS

- A. Manufacturers: Krueger; Ruskin Company; Thus.
- B. Multi-blade device with blades aligned in 360 degree pattern; steel or aluminum construction; with individually adjustable blades, mounting straps.

2.02 VOLUME CONTROL DAMPERS

- A. Manufacturers: Louvers & Dampers, Inc.; Nalor Industries Inc.; Ruskin Company; Pelfco Inc.
B. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated.
C. Single Blade Dampers: Fabricate for duct sizes up to 6 x 30 inch.
D. Multi-Blade Damper: Fabricate of opposed blade pattern with maximum blade sizes 8 x 12 inch. Assemble center and edge crimped blades in prime coated or galvanized channel frame with suitable hardware.
E. End Bearings: Except in round ducts 12 inches and smaller, provide end bearings. On multiple blade dampers, provide oil-impregnated nylon or sintered bronze bearings.
F. The contractor shall provide either a mechanical or electrical cable operated system wherever dampers are located in non-accessible areas.
1. Mechanical cable operator system shall be similar and equal to Young Regulator Company, "Bowden Cable Control" system including damper, flexible cable with casing and remote control.
2. Electrically operated damper control system shall be similar and equal to United Enterich Corporation, "Power Balance" system including motor operated damper, R-1-1 plenum rated cable and flush ceiling or wall mounted R-1-1 jack in remote plate. Include one hand held battery pack operator pack to be delivered to the Owner upon completion of the balancing.

2.03 FLEXIBLE DUCT CONNECTIONS

- A. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated.
B. Flexible Duct Connection wall louvers and duct outlet is smaller than louver frame, provide blank-out panels sealing louver area and frame. Use same material as duct, painted black on exterior side, seal to around frame and duct.
1. Fabric: UL listed fire-retardant neoprene coated woven glass fiber fabric to NFPA 90A, minimum density 30 oz per sq yd.
2. Metal: 3 inches wide, 24 gage thick galvanized steel.

2.04 DUCT ACCESS DOORS

- A. Manufacturers: Acador Products Inc.; Nalor Industries Inc.; Ruskin Company; SEMCO Incorporated.
B. Fabricate in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, and as indicated.
C. Fabrication: Rigid and close-fitting of galvanized steel with sealing gaskets and quick fastening locking devices. For insulated ducts, install minimum 1 inch thick insulation with sheet metal cover.
1. Less Than 12 inches Square: Secure with sash lock.
2. Up to 18 inches Square: Provide two hinges and two sash locks.
D. Access doors with sheet metal screw fasteners are not acceptable.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install accessories in accordance with manufacturer's instructions, NFPA 90A, and follow SMACNA HVAC Duct Construction Standards - Metal and Flexible, Duct construction and pressure class.
B. Provide duct access doors for inspection and cleaning before and after filters, coils, fans, automatic dampers, at fire dampers, combination fire and smoke dampers, and elsewhere as indicated. Provide minimum 8 x 8 inch size for hand

access, 18 x 18 inch size for shoulder access, and as indicated. Provide 4 x 4 inch for balancing dampers only. Review locations prior to fabrication.

- C. Locate all dampers and control elements in accessible areas whenever possible to avoid access doors. Provide ceiling access doors for access to all dampers and control elements located above inaccessible ceiling areas. Provide minimum 12 x 12 inch size for hand access, 18 x 18 inch size for shoulder access, and as indicated. Provide 4 x 4 inch for balancing dampers only. Review locations prior to fabrication.
D. Provide balancing dampers at points on supply, return, and exhaust systems where branches are taken from larger ducts as required for air balancing. Install minimum 2 duct widths from duct take-off.
E. Provide balancing dampers on duct take-off to diffusers, grilles, and registers, regardless of whether dampers are specified as part of the diffuser, grille, or register assembly. Do not locate dampers closer than 5 feet or 10 duct diameters from the air terminal device, whichever is greater.
F. At fans and motorized equipment associated with ducts, provide flexible duct connections immediately adjacent to the equipment.
G. At equipment supported by vibration isolators, provide flexible duct connections immediately adjacent to the equipment.

END OF SECTION

SECTION 233423 - HVAC POWER VENTILATORS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Roof exhausters.
- B. Kitchen range hood exhausters.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Greenheck; Loren Cook Company; PennBarry; CapheAir.

2.02 POWER VENTILATORS - GENERAL

- A. Performance Ratings: Determined in accordance with AMCA 210 and bearing the AMCA Certified Rating Seal.
B. Sound Ratings: AMCA 301, tested to AMCA 300, and bearing AMCA Certified Sound Rating Seal.
C. Fabrication: Conform to AMCA 99.
D. UL Compliance: UL listed and labeled, designed, manufactured, and tested as suitable for the purpose specified and indicated.

2.03 ROOF EXHAUSTERS AND VENTILATORS

- A. Fan Unit: V-belt or direct driven as indicated, with spun aluminum housing; resilient mounted motor; 1/2 inch mesh, 0.02 inch thick aluminum wire brodercom; square base to suit roof curb with continuous curb gaskets.
B. Roof Curb: 20 inch high above the finished roof surface (compensate for roof insulation thickness at fan location) self-flashing of galvanized steel or aluminum construction with continuously welded seams, built-in cant strips, insulation and curb bottom, and factory installed nailer strip.
C. Disconnect Switch: Factory wired, non-fusible, in housing for thermal overload protection motor.
D. Backdraft Damper: Motor actuated (or gravity damper if depicted on drawing), aluminum multiple blade construction, felt edged with offset hinge pin, nylon bearings, blades linked, and line voltage motor drive, power open, spring return.
E. Shafts: Cast iron or steel, dynamically balanced, bored to fit shafts and keyed; variable and adjustable pitch motor sheave selected so required rpm is obtained with shafts set at mid-position; fan shaft with self-aligning pre-lubricated ball bearings.
F. Kitchen hood exhausters shall be upblast with grease tray, ventilated double wall curb and hinged curb adapter base for cleaning. Hood exhausters shall comply with requirements of NFPA 96.

END OF SECTION

SECTION 233700 - AIR OUTLETS AND INLETS

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
B. Provide shelves required for final air balance at no additional expense to the project.
C. Secure duct and wall exhausters with cadmium plated steel lag screws to roof curb or structure.
D. Extend ducts to roof and wall exhausters into roof curb or wall structure. Counterflash duct to roof or wall opening.
E. Install backdraft dampers (gravity or motorized) as depicted on design drawings on inlet to roof and wall exhausters.
F. All roofing penetrations shall be flashed and weather sealed by the roofing manufacturer's authorized roofing contractor at this Contractor's expense. This Contractor shall contract with the factory authorized roofing contractor for the specific roofing system applicable to this project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.

END OF SECTION

SECTION 233700 - AIR OUTLETS AND INLETS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Round ceiling diffusers.
- B. Rectangular ceiling diffusers.
- C. Perforated face ceiling diffusers.
- D. Grid cone exhaust and return grilles.

1.02 SUBMITTALS

- A. Product Data: Provide data for equipment required for this project. Review outlets and inlets as to size, finish, and type of mounting prior to submission. Submit schedule of outlets and inlets showing type, size, location, application, accessories, and noise level.

1.03 QUALITY ASSURANCE

- A. Test and rate air outlet and inlet performance in accordance with ASHRAE Std 70.
B. Test and rate lower performance in accordance with AMCA 500-L.
C. Code requirements shall supersede any conflicting requirements of this Section.

1.04 QUALIFICATIONS

- A. Manufacturer Qualifications: Company specializing in manufacturing the type of products specified in this Section, with minimum five years of documented experience.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. This is the basis of design. Krueger, Price Industries, and Carnes are equal.

2.02 ROUND CEILING DIFFUSERS

- A. Type: Round, adjustable pattern; stamped or spun, multi-core, or architectural plaque; diffuser to discharge air in 360 degree pattern, with sectoring baffles where indicated. Diffuser collar shall project not more than 1 inch above ceiling. In plaster ceilings, provide plaster ring and ceiling plaque.
B. Fabrication: Steel with baked enamel off-white finish.
C. Accessories: Opposed blade damper and multi-louvered equalizing grid with damper adjustable from diffuser face.

2.03 RECTANGULAR CEILING DIFFUSERS

- A. Type: Square, adjustable pattern, stamped, multi-core, or architectural plaque; diffuser to discharge air in 360 degree pattern with sectoring baffles where indicated.
B. Frame: Inverted T-bar type. In plaster ceilings, provide plaster frame and ceiling frame. (To allow lift-out removal of the diffuser without removal of the plaster frame.)
C. Fabrication: Steel with baked enamel off-white finish.
D. Accessories: Opposed blade damper and multi-louvered equalizing grid with damper adjustable from diffuser face.

2.04 PERFORATED FACE CEILING DIFFUSERS

- A. Type: Perforated face with fully adjustable pattern and removable face.
B. Frame: Inverted T-bar type. In plaster ceilings, provide plaster frame and ceiling frame. (To allow lift-out removal of the diffuser without removal of the plaster frame.)
C. Fabrication: Steel with steel frame and baked enamel off-white finish.
D. Accessories: Opposed blade damper and multi-louvered equalizing grid with damper adjustable from diffuser face.

2.05 GRID CONE EXHAUST AND RETURN GRILLES

- A. Type: Fixed grilles of 1/2 x 1/2 x 1 inch louvers.
B. Fabrication: Aluminum with factory off-white enamel finish.
C. Frame: 1-1/4 inch margin with countersunk screw mounting.
D. Frame: Channel rail-in frame for suspended grid ceilings where face size exceeds 18 x 18 inch.
E. Damper (if specified on drawings): Integral, gang-operated, opposed blade type with removable key operator, operable from face.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
B. Check location of outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement.
C. Install diffusers to ductwork with air tight connection.
D. Provide balancing dampers on duct take-off to diffusers, and grilles and registers, despite whether dampers are specified as part of the diffuser, or grille and register assembly.
E. Paint ductwork visible behind air outlets and inlets matte black.

SECTION 237413 - PACKAGED OUTDOOR ROOF TOP UNITS - GAS FIRED

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Packaged roof top units.
- B. Thermostat controls.
- C. Roof mounting curb and base.
- D. Economizer.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Frame is the basis of design. Lennox, Carrier, and York are equal.

2.02 AIR CONDITIONING UNITS

- A. General: Roof mounted units having gas burner and electric refrigeration.
B. Description: Self-contained, packaged, factory assembled and prewired, consisting of cabinet and frame, supply fan, heat exchanger and burner, controls, air filters, refrigerant cooling coil and compressor, dry bulb economizer and power exhaust fan where indicated on the Drawings, condenser coil and condenser fan.
C. Electrical Characteristics: As scheduled on the Drawings.
D. Disconnect Switch: Factory mount disconnect switch on equipment.

2.03 FABRICATION

- A. Cabinet: Steel with baked enamel finish, including access panels with screwdriver operated flush cam type fasteners or doors with piano hinges with locking hardware. Structural members shall be minimum 18 gage, with access doors or panels of minimum 20 gage.
B. Insulation: One inch thick neoprene coated glass fiber with edges protected from erosion.
C. Heat Exchangers: Aluminumized steel or stainless steel where indicated on the Drawings, of welded construction.
D. Supply Fan: Forward curved centrifugal type, resiliently mounted with V-belt drive, adjustable variable pitch motor pulley, and rubber isolated hinge mounted motor or direct drive as indicated. Include complete fan assembly.
E. Air Filters: 2 inch thick disposable media in metal frames.
F. Roof Mounting Curb: Galvanized steel, channel frame, insulated with gaskets, nailer strips. Provide roof curb of adequate height to provide a unit mounting height of 12" or greater above the top of the roof surface with the curb mounted to the building structure. Roof curb height must compensate for the roof insulation thickness to meet this requirement.
G. Vibration Isolation Curb: Only when indicated on the Drawings.

2.04 BURNERS

- A. Gas Burner: Induced draft or forced draft type burner with adjustable combustion air supply, pressure regulator, gas valves, manual shut-off, intermittent spark or slow coil ignition, flame stabilized by gas valve, and automatic 100 percent shut-off pilot.
B. Gas Burner Safety Controls: Energize ignition, limit time for establishment of flame, prevent opening of gas valve until pilot flame is proven, stop gas flow on ignition failure, energize blower motor, and after air flow proven and slight delay, allow gas valve to open.
C. High Limit Control: Temperature sensor sensing bonnet temperatures to be independent of burner controls, with provisions for continuous fan operation.

2.05 EVAPORATOR COIL

- A. Provide copper tube aluminum fin coil assembly with galvanized drain pan and connection.
B. Provide capillary tubes or thermostatic expansion valves for units of 5 tons and larger. Provide capillary tubes and thermostatic expansion valves and alternate row circuiting for units 7.5 tons cooling capacity and larger.

2.06 COMPRESSOR

- A. Provide hermetic or semi-hermetic compressors, 3600 rpm maximum, resiliently mounted with positive lubrication, crankcase heater, high and low pressure safety controls, motor overload protection, suction and discharge service valves and gage ports, and filter drier.
B. Five minute limit off circuit to delay compressor start.
C. Outdoor thermostat to energize compressor above 35 degrees F ambient.

2.07 CONDENSER COIL

- A. Provide copper tube aluminum fin coil assembly with subcooling rows and coil guard.
B. Provide direct drive propeller fans, resiliently mounted with fan guard, motor overload protection, wired to operate with compressor.

2.08 MIXED AIR CASING

- A. Dampers: Provide outside, return, and relief dampers with damper operator and control package to automatically vary outside air quantity. Outside air damper to fail to closed position. Relief dampers may be gravity balanced.
B. Gaskets: Provide tight fitting dampers with edge gaskets maximum leakage 5 percent at 2 inches pressure differential.
C. Damper Operator: 24 volt with gear train sealed in oil.
D. Damper Operator: Units 7.5 Ton Cooling Capacity and Larger: 24 volt with gear train sealed in oil with spring return.
E. Mixed Air Controls: Maintain selected supply air temperature and return dampers to minimum position for heat testing and above 75 degrees F ambient, or when ambient air temperature exceeds return air temperature.

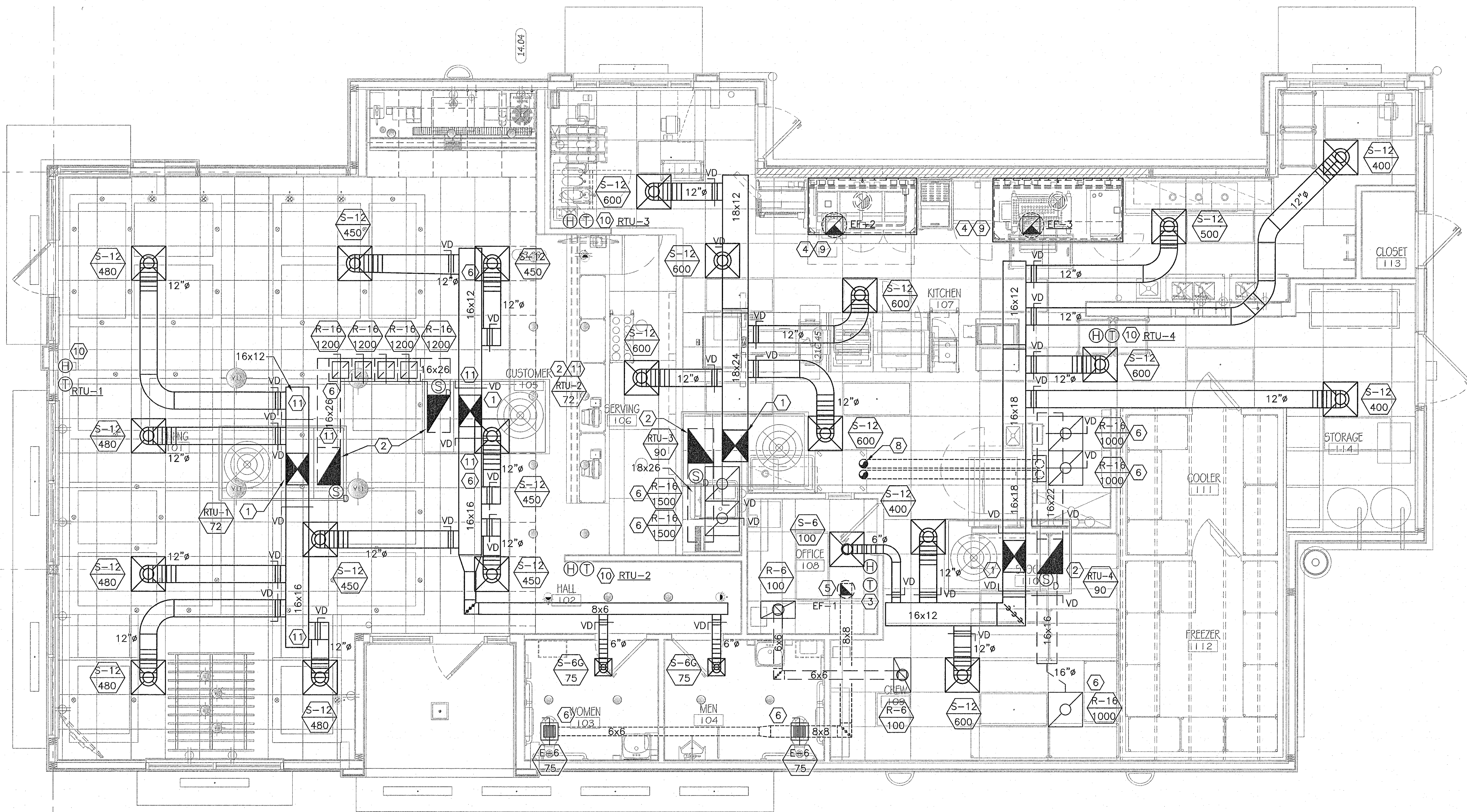
2.09 INTEGRATED ECONOMIZER

- A. Economizer shall be furnished and installed complete with outside air and relief dampers and controls.
B. Provide low leakage, opposed blade dampers.
1. California Projects: Meet all Title 24 requirements.
C. Economizer shall be capable of introducing up to 100% outdoor air for minimum ventilation as well as free cooling.
D. Damper actuator shall be electrically, fully modulating design.
E. Economizer outdoor hood shall be pre-painted and fully integrated with the unit.
F. Dry Bulb Control: (If allowed by local code) Provide dry bulb sensor capable of measuring temperature of outdoor air and controlling economizer cut-in point at the most economical level. High level cutoff shall be set per applicable energy code.
1. California Projects: Meet all Title 24 requirements, including Economizer Fault Detection and Diagnostics (FDD).

2.10 OPERATING CONTROLS

- A. Provide low voltage, adjustable thermostat to control heater stages in sequence with delay between stages, compressor and condenser fan, and supply fan to maintain temperature setting.
1. Include system selector switch (off-heat-auto-cool) and fan control switch (auto-as-on).
2. The Mechanical Contractor shall provide all control wiring between thermostat and unit control panel and any required remote sensors.
3. Locate thermostat in room as shown.
4. Electric solid state microcomputer based room thermostat, located as indicated. Provide remote sensors when indicated on the Drawings.
a. Room thermostat shall incorporate:
1) Automatic switching from heating to cooling.
2) Preferential ratio control to minimize overshoot and deviation from set point.
3) Automatic Start Capabilities: Controls shall be

FILE NAME: BURGER KING - Versailles Road, Frankfort, KY 40601
DESCRIPTION: BURGER KING - Versailles Road, Frankfort, KY 40601
PLOT SCALE:



A MECHANICAL PLAN
7.2 SCALE: 1/4" = 1'-0"

CODED SHEET NOTES:

- ROUTE SUPPLY DUCT DOWN FROM RTU, TRANSITION AS REQUIRED.
- ROUTE RETURN AIR DUCT UP TO RTU, TRANSITION AS REQUIRED. PROVIDE DUCT MOUNTED SMOKE DETECTOR IN RETURN DUCT AND INTERLOCK WITH RTU, UNIT SHALL DEACTIVATE UPON DETECTION OF SMOKE.
- PROVIDE WALL MOUNTED TEMPERATURE SENSORS AND HUMIDITY SENSORS MOUNTED 48" A.F.F. INTERLOCK WITH THERMOSTAT AND HUMIDISTAT IN MANAGERS OFFICE.
- EXHAUST DUCT UP FROM EF-2 & EF-3, TRANSITION AS REQUIRED. THE EXHAUST RISERS CANNOT BE OFFSET. TRUSSES CLOSEST TO THE EXHAUST RISERS MUST BE SPACED NO LESS THAN 28" APART WITH THE SPACING CENTERED ON THE CENTER OF THE RISERS. REFER TO ROOF PLAN ON 7.2 FOR POSITION OF CURB AND FAN. HOOD, FAN, AND DUCT FURNISHED BY OTHERS AND INSTALLED BY HVAC CONTRACTOR.
- 8x8 EXHAUST DUCT UP TO EF-1 ON ROOF.
- PROVIDE A MANUAL BALANCING DAMPER AT ALL DIFFUSERS, TYPICAL.
- NOT USED.
- ROUTE 4" SCH. 40 PVC COMBUSTION AIR INTAKE AND FLUE EXHAUST DUCT TO/FROM FORCED COMBUSTION GAS WATER HEATER. PROVIDE GOOSE NECK ON COMBUSTION AIR DUCT AND FLUE CAP ON FLUE EXHAUST DUCT. FLUE EXHAUST DUCT SHALL TERMINATE A MINIMUM OF 3'-0" ABOVE COMBUSTION AIR INTAKE. ANOTHER OPTION IS TO PROVIDE MANUFACTURER'S CONCENTRIC TERMINATION KIT PROVIDED BY PLUMBING CONTRACTOR. COORDINATE WITH LOCATION OF WATER HEATER AND ROOF TOP EQUIPMENT.
- GREASE DUCT SHALL BE ZERO CLEARANCE 1500°F GREASE DUCT BY METAL FAB. SEE KITCHEN DRAWINGS FOR INSTALLATION DETAILS.
- PROVIDE WALL MOUNTED THERMOSTAT AND HUMIDISTAT FOR EACH RTU MOUNTED 48" A.F.F. COORDINATE WITH OWNER FOR FINAL LOCATION.
- ROUTE ALL DUCTWORK BETWEEN TRUSSES AND THROUGH TRUSS WEBBING. COORDINATE AND ADJUST DIFFUSER LOCATIONS AS NECESSARY.

GENERAL SHEET NOTES

- CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND OWNER.
- CONTRACTOR TO COORDINATE ALL NEW WORK SO AS NOT TO DAMAGE ANY OR NEW EQUIPMENT.
- CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PROJECT SCHEDULING AND TIMELINES.
- ANY HEATING/Cooling SYSTEM 2000 CFM OR GREATER TO BE MONITORED W/SMOKE DETECTION IN S.A. DUCT SO SYSTEMS FAN WILL BE SHUT DOWN AS PER NFPA.
- PROVIDE "FRESH OUTSIDE AIR" AS REQUIRED BY INTERNATIONAL MECHANICAL CODES.
- PROVIDE COMPLETE SYSTEM AS COORDINATED WITH GC AND OTHER TRADES AND IN ACCORDANCE WITH CURRENT IMC AND ASHRAE 62 STANDARDS. ALL SYSTEMS MUST BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, KENTUCKY BUILDING CODE AND NFPA. ALL ELECTRICAL AND PLUMBING REQUIREMENTS RELATED TO HVAC TO BE COORDINATED BY THIS SUBCONTRACTOR WITH ELECTRICIAN AND PLUMBER. ALL CONTROL WIRING FOR HVAC EQUIPMENT MUST BE INSTALLED BY THE HVAC SUBCONTRACTOR.
- MANUFACTURERS MIN CLEARANCES TO BE MAINTAINED ON ALL EQUIPMENT AND DUCTWORK.
- COORDINATE ALL ROOF & WALL PENETRATIONS WITH OWNER.

THERMOSTAT NOTES:

LOCATE THERMOSTAT BESIDE LIGHT SWITCH IN AREAS OF CONFLICT, WHERE BOTH DEVICES ARE SHOWN.

ROOF AND WALL PENETRATION NOTE:

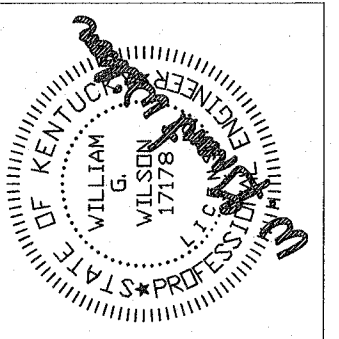
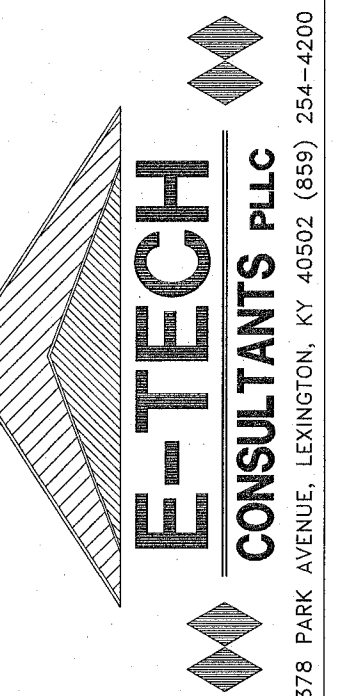
COORDINATE ALL OPENINGS WITH ARCHITECT BEFORE INSTALLING DUCTWORK OR CUTTING THE ROOF OR WALLS.

SHEET LEGEND

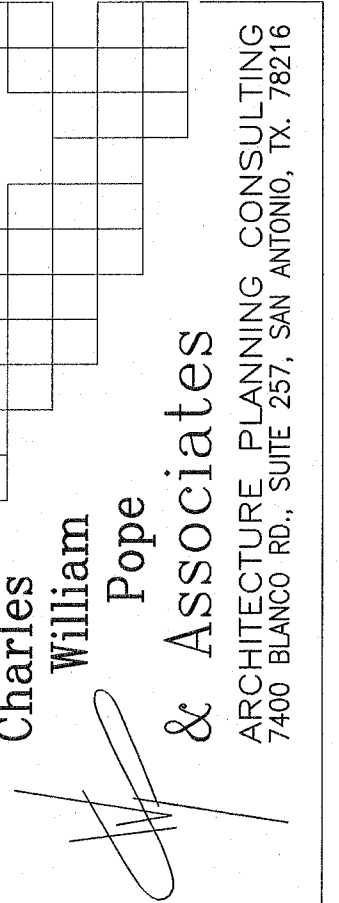
CU	CONDENSING UNIT
HPU	HEAT PUMP UNIT
AHU	AIR HANDLING UNIT
—	DUCTWORK
—	SUPPLY PIPING
—	RETURN PIPING
—	SUPPLY DUCT
—	RETURN DUCT
—	GATE VALVE
—	BALL VALVE
—	THERMOSTAT
—	PUMP
—	PRESSURE AND TEMPERATURE VALVE
—	UNION
FD	FIRE DAMPER
VD	VOLUME DAMPER
CD	CONDENSATE DRAIN
R	REFRIGERATION LINE SET

REVISIONS:

MECHANICAL PLAN



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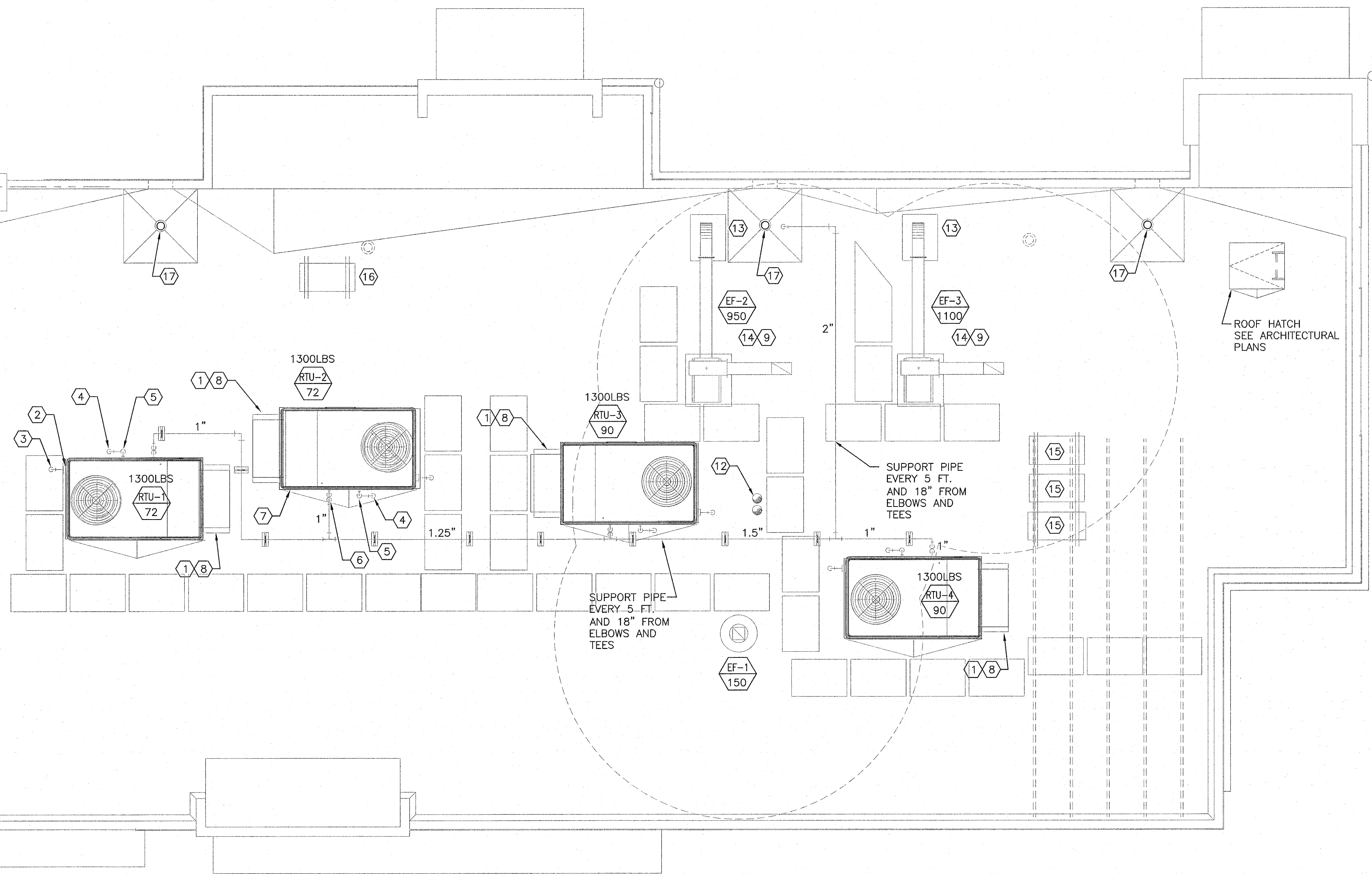


DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

7.2

OF

FILE NAME: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWING SCALE: 1/4" = 1'-0"
PLOT SCALE:



A MECHANICAL ROOF PLAN
7.3 SCALE: 1/4" = 1'-0"

CODED SHEET NOTES:

- 1) HVAC SYSTEM AIR INTAKE MUST BE AT LEAST 10FT FROM BUILDING EXHAUST.
- 2) LOCATION OF ELECTRICAL DISCONNECT AND CONTROL WIRING. ENTRANCE, REFER TO ELECTRICAL PLANS. (TYPICAL).
- 3) LOCATION OF ROOF HOOD TO BE INSTALLED BY ELECTRICAL CONTRACTOR. NOTE: DO NOT PENETRATE BOTTOM OF CURB. (TYPICAL).
- 4) GAS PIPE PENETRATION THROUGH ROOF WITH ROOF HOOD, PROVIDED BY PLUMBING CONTRACTOR. (TYPICAL).
- 5) NATURAL GAS CONNECTION.
- 6) CONDENSATE DRAIN WITH EXTERNAL, 4" DEEP P-TRAP INSTALLED BY CONTRACTOR. PLUMBING CONTRACTOR SHALL EXTEND DRAIN AS SHOWN ON THE ROOF PLAN. (TYPICAL).
- 7) SHIM BETWEEN BOTTOM OF CURB AND DECK TO MAKE CURB LEVEL (TYPICAL ALL UNITS).
- 8) OUTSIDE AIR HOOD, MAINTAIN 10'-0" MINIMUM FROM ANY EXHAUST OR PLUMBING VENTS. (TYPICAL).
- 9) REFER TO SHEETS 7.7 AND 7.10 FOR EXHAUST FAN AND GREASE DUCT INSTALLATION. VERIFY DUCT LENGTH.
- 10) NOTE NOT USED
- 11) NOTE NOT USED
- 12) ROUTE COMBUSTION AIR INTAKE AND FLUE PIPING FOR WATER HEATER. GOOSENECK PIPING AT TERMINATION. OUTLET OF FLUE PIPING SHALL TERMINATE MINIMUM 3'-0" ABOVE COMBUSTION AIR PIPING. COORDINATE WITH LOCATION OF WATER HEATER.
- 13) PROVIDE CURB FOR DUCT PENETRATION THROUGH THE ROOF. REFER TO ARCHITECTURAL PLANS FOR ROOF FLASHING.
- 14) INSTALL EXHAUST FAN ON MANUFACTURER'S CURB. REFER TO KITCHEN DRAWINGS FOR FAN AND DUCT INSTALLATION.
- 15) COOLER/FREEZER REMOTE CONDENSING UNITS. PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR.
- 16) ICE MACHINE REMOTE CONDENSING UNIT. PROVIDED BY OWNER AND INSTALLED BY GENERAL CONTRACTOR.
- 17) ROOF DRAIN PROVIDED BY PLUMBING CONTRACTOR.

GENERAL SHEET NOTES

- A. CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- B. CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- C. CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND OWNER.
- D. CONTRACTOR TO COORDINATE ALL NEW WORK SO AS NOT TO DAMAGE ANY OR NEW EQUIPMENT.
- E. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- F. ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- G. CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- H. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PROJECT SCHEDULING AND TIMELINES.
- I. ANY HEATING/COOLING SYSTEM 2000 CFM OR GREATER TO BE MONITORED W/SMOKE DETECTION IN S.A. DUCT SO SYSTEMS FAN WILL BE SHUT DOWN AS PER NFPA.
- J. PROVIDE "FRESH OUTSIDE AIR" AS REQUIRED BY INTERNATIONAL MECHANICAL CODES.
- K. PROVIDE COMPLETE SYSTEM AS COORDINATED WITH GC AND OTHER TRADES AND IN ACCORDANCE WITH CURRENT IMC AND ASHRAE 62 STANDARDS. ALL SYSTEMS MUST BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, KENTUCKY BUILDING CODE AND NFPA. ALL ELECTRICAL AND PLUMBING REQUIREMENTS RELATED TO HVAC TO BE COORDINATED BY THIS SUBCONTRACTOR WITH ELECTRICIAN AND PLUMBER. ALL CONTROL WIRING FOR HVAC EQUIPMENT MUST BE INSTALLED BY THE HVAC SUBCONTRACTOR.
- L. MANUFACTURERS MIN CLEARANCES TO BE MAINTAINED ON ALL EQUIPMENT AND DUCTWORK.
- M. COORDINATE ALL ROOF & WALL PENETRATIONS WITH OWNER.

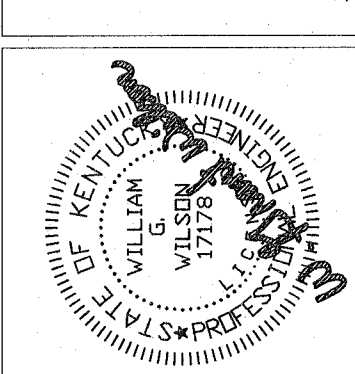
REVISIONS:

MECHANICAL ROOF PLAN

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601



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NOV 24 2021

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& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

7.3

OF

FILE NAME: BURGER KING - Versailles Road, Frankfort, KY 40601
DESCRIPTION: MECHANICAL SCHEDULES & DETAILS
DATE: 11/24/2021
PLOT SCALE:

GENERAL SHEET NOTES

- A. CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- B. CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- C. CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND GENERAL CONTRACTOR.
- D. CONTRACTOR TO COORDINATE ALL NEW WORK SO AS NOT TO DAMAGE ANY NEW EQUIPMENT.
- E. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- F. ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- G. CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- H. SEE DRAWINGS AND SPECIFICATIONS FOR PROJECT SCHEDULING AND TIMELINES.
- I. ANY HEATING/COOLING SYSTEM 2000 CFM OR GREATER TO BE MONITORED W/SMOKE DETECTION IN RETURN AIR DUCT SO SYSTEMS FAN WILL BE SHUT DOWN AS PER NFPA.
- J. PROVIDE "FRESH OUTSIDE AIR" AS REQUIRED BY INTERNATIONAL MECHANICAL CODES.
- K. PROVIDE COMPLETE SYSTEM AS COORDINATED WITH GC AND OTHER TRADES AND IN ACCORDANCE WITH CURRENT IMC AND ASHRAE 62 STANDARDS. ALL SYSTEMS MUST BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS, KENTUCKY BUILDING CODE AND NFPA. ALL ELECTRICAL AND PLUMBING REQUIREMENTS RELATED TO HVAC TO BE COORDINATED BY THIS SUBCONTRACTOR WITH ELECTRICIAN AND PLUMBER. ALL CONTROL WIRING FOR HVAC EQUIPMENT MUST BE INSTALLED BY THE HVAC SUBCONTRACTOR.
- L. MANUFACTURERS MIN CLEARANCES TO BE MAINTAINED ON ALL EQUIPMENT AND DUCTWORK.
- M. COORDINATE ALL ROOF & WALL PENETRATIONS WITH ARCHITECT.
- N. ALL RECTANGULAR AND ROUND DUCTS SHALL BE SIZED AS SHOWN ON THE DRAWINGS. DUCT SIZES SHOWN ARE FREE AREA SIZES AND THE CONTRACTOR SHALL MAKE ALLOWANCES TO INCLUDE EXTERNAL DUCT WRAP INSULATION ON RECTANGULAR AND ROUND DUCTS PER THE SPECIFICATIONS.
- O. ALL RECTANGULAR AND ROUND DUCTWORK SHALL BE FABRICATED USING MILD GALVANIZED SHEET METAL. FIBERGLASS DUCTBOARD IS PROHIBITED. FLEXIBLE DUCT MAY BE USED FOR DIFFUSER RUNOUTS AND MUST BE INSTALLED IN STRAIGHT RUNS WITH MINIMUM TURNING AND SAGGING. FLEXIBLE DUCT INSTALLED WITH UNNECESSARY OR EXCESSIVE TURNS OR SAGS WILL BE RE-INSTALLED TO THE SATISFACTION OF THE ENGINEER AT NO ADDITIONAL COST.
- P. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED ASHRAE AND SMACNA STANDARDS. ROUTE DUCTWORK AS HIGH AS POSSIBLE.
- Q. INSTALL TURNING VANES IN ALL RECTANGULAR DUCT ELBOWS.
- R. MANUFACTURER'S MINIMUM CLEARANCE RECOMMENDATIONS SHALL BE MAINTAINED ON ALL EQUIPMENT AND DUCTWORK.
- S. PROVIDE A DRAIN LINE FROM EACH ITEM OF EQUIPMENT REQUIRING A DRAIN (COOLING COIL, DRAIN PANS, PUMPS, BACKFLOW PREVENTERS, HEAT PUMP UNITS, ETC.) TO THE NEAREST ROOF DRAIN, FLOOR DRAIN, OPEN RECEPTACLE, TO OUTSIDE OF THE BUILDING, OR AS SHOWN, UNLESS OTHERWISE NOTED, PROVIDE SCH. 40 PVC WITH SOLVENT CEMENT JOINTS FOR ALL CONDENSATE DRAIN PIPING. ALL HORIZONTAL CONDENSATE DRAIN PIPING SHALL BE SLOPED AT 1% MINIMUM. ALL CONDENSATE DRAIN CONNECTIONS TO EQUIPMENT SHALL INCLUDE A MIN. 4" DEEP P-TRAP WITH CLEAN-OUT PLUG. CONDENSATE DRAIN PIPING SHALL SUPPORTED WITH MIRO IND. MODEL 3R PIPE STANDS OR EQUAL. CONDENSATE DRAIN PIPING SIZING, INSTALLATION AND TERMINATION SHALL COMPLY WITH ALL APPLICABLE CODES. HEAT TRACE ALL EXTERIOR CD.
- T. SUPPLY & RETURN DUCT CONNECTIONS TO EQUIPMENT SHALL INCLUDE CANVAS FLEXIBLE DUCT CONNECTORS. LOCATE FLEXIBLE DUCT CONNECTORS MAXIMUM 12" BELOW BOTTOM OF ROOF DECK FOR VERTICAL DUCT DROPS FROM ROOF MOUNTED EQUIPMENT.
- U. ALL DUCTWORK RECTANGULAR OR ROUND SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED EXTERNALLY UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. EXTERNAL DUCT INSULATION (DUCT WRAP) SHALL BE FIBERGLASS DUCT WRAP WITH VINYL OR FSK FACING. DUCT WRAP SHALL HAVE A K-FACTOR OF .26 AT 75 DEG. F MEAN, A DENSITY OF 1.0 LB./C.F AND A MINIMUM 8.0 INSTALLED R-VALUE.
- V. INSULATION SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS AND THE DESCRIBED METHODS IN THE MOST RECENT EDITION OF SMACNA'S DUCT APPLICATION STANDARD. E/A DUCT SHALL NOT BE INSULATED.
- W. REPLACE ALL HVAC EQUIPMENT FILTERS WITH NEW 2" PLEATED THROW-AWAY FILTER AT COMPLETING OF THE JOB PLUS TWO ADDITIONAL FILTERS TURN OVER TO OWNER.
- X. THE RETURN AIR SMOKE DETECTOR IN THE MAIN RETURN AIR DUCT, FACTORY FURNISHED, CONTRACTOR TO INSTALL IN ACCORDANCE WITH APPLICABLE CODES. THE REMOTE INDICATOR/TEST STATION FOR EACH SMOKE DETECTOR SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. ALL SMOKE DETECTOR AND REMOTE INDICATOR/TEST STATION WIRING AND CONDUIT NOT FACTORY INSTALLED SHALL BE BY THE ELECTRICAL CONTRACTOR. THE SMOKE DETECTOR AND THE REMOTE INDICATOR/TEST STATION SHALL BE INTERLOCKED WITH THE AC CONTROLS TO AUTOMATICALLY SHUT DOWN THE UNIT UPON SENSOR ACTIVATION OR REMOTE INDICATOR/TEST STATION USE. SEE THE ELECTRICAL DRAWINGS FOR CLARIFICATION.
- Y. FINAL TESTING AND BALANCING SHALL BE PERFORMED IN COMPLETE ACCORDANCE WITH AABC STANDARDS. THE CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT COMPANY, THE COMPANY SHALL BE EQUIPPED AND HAVE THE QUALIFIED TECHNICAL PERSONNEL AS REQUIRED BY AABC OR NEBB. THE AIR BALANCE REPORT SHOWS DESIGN AND MEASURED AIR QUANTITIES, STATIC PRESSURES, FAN MOTOR RPM AND MOTOR CURRENT. DEVIATION BETWEEN DESIGN AND MEASURED QUANTITIES SHALL NOT BE GREATER THAN 10%.
- Z. SYSTEM SHALL BE INSTALLED TO MEET IMC 2015, KBC 2018, AND IECC 2018.

GENERAL MECHANICAL NOTES

- A. PROVIDE ALL LABOR, MATERIAL, AND EQUIP. REQUIRED FOR THE COMPLETION & OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK IN ACCORDANCE WITH ALL APPLICABLE CODES, ASHRAE, SMACNA, NFPA, EPA, ETC.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL PERMITS AND PAYING FOR SAME. HE SHALL INCLUDE IN HIS BID CHARGES FOR ALL FEES ASSOCIATED WITH THE CONSTRUCTION OF THE SPACE INCLUDING BUT NOT LIMITED TO LOCAL, COUNTY, OR STATE SERVICE CHARGES AND PERMIT FEES.
- C. ACCESS PANELS ARE REQUIRED IN WALLS, FLOORS, AND SUSPENDED CEILINGS (EXCEPT LAY-IN TYPE) FOR ACCESS TO ALL UNITS, VALVES, TRAPS, DAMPERS, CLEANOUTS, CONTROLS, ETC. PANELS SHALL BE FURNISHED AND INSTALLED UNDER ARCHITECTURAL SPECIFICATIONS.
- D. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
- E. EXACT LOCATIONS OF ALL EQUIPMENT SHALL BE COORDINATED WITH OTHER TRADES, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL DIFFUSER LOCATIONS.
- F. WHERE MOUNTING HEIGHTS ARE NOT INDICATED OR ARE IN CONFLICT WITH ANY OTHER BUILDING SYSTEM, CONTACT THE ENGINEER BEFORE INSTALLATION. REFER ALSO TO ARCHITECTURAL WALL INTERIORS, SECTIONS, EXTERIOR WALL ELEVATIONS, CEILING HEIGHTS, AND OTHER DETAILS OF THESE DOCUMENTS.
- G. ALL MECHANICAL CONSTRUCTION DETAILS SHALL BE AS SHOWN AND AS REQUIRED TO MAINTAIN "UL" ASSEMBLY RATINGS AS SHOWN ON DRAWINGS. SEAL AROUND ALL PENETRATIONS THROUGH ALL "UL" RATED ASSEMBLIES, FIRE, AND SMOKE WALLS. COORDINATE WITH GENERAL CONTRACTOR.
- H. DUCTWORK AND PIPING SHOWN ON THE PLANS ARE DIAGRAMMATIC, AND MIGHT NOT SHOW ALL BENDS, OFFSETS, ROUTING, AND FITTINGS NECESSARY FOR THE INSTALLATION OF THE WORK AS INTENDED. ANY SUCH ADDITIONAL BENDS, OFFSETS, ROUTING, OR FITTINGS SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL NOT FABRICATE ANY DUCTWORK UNTIL SITE CONDITIONS ARE VERIFIED.
- I. EQUIPMENT, FIXTURES, AND ACCESSORIES SHALL NOT BE SUPPORTED FROM CEILINGS, SOFFITS, NEUTRAL PIERS, PIPING, DUCTWORK, ROOF DECK, LATERAL BRACING, BRIDGING OR CONDUIT. ITEMS SHALL ONLY BE SUPPORTED FROM STRUCTURE WHICH HAS BEEN APPROVED FOR SUPPORT.
- J. THE CONTRACTOR SHALL COOPERATE AND COORDINATE WITH ALL OTHER TRADES IN THE LAYING OUT AND INSTALLATION OF THE WORK, PRIOR TO FABRICATION AND INSTALLATION OF THE EQUIPMENT.
- K. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORD WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIONS. IF IN CONFLICT WITH THE DESIGN INDICATED IN THE CONTRACT DOCUMENTS, ADVISE THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION FOR CLARIFICATION.
- L. DUCT DIMENSIONS INDICATED ARE INSIDE CLEAR.
- M. ALL DUCT AND PIPE PENETRATIONS OF RATED WALLS AND FLOORS (IF ANY) SHALL BE FIRESTOPPED.
- N. ALL SUPPLY AND RETURN DUCTS SHALL HAVE EXTERNAL INSULATION.
- O. CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- P. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- Q. ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- R. CONTRACTOR TO COORDINATE ALL ELECTRICAL CONDUIT AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES AND EXISTING CONDITIONS.
- S. ALL DUCTWORK EXCEPT FLEXIBLE DUCTWORK SHALL BE GALVANIZED SHEET METAL, FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF SMACNA - "HVAC DUCT CONSTRUCTION STANDARDS, METAL AND FLEXIBLE". DUCTWORK 18" WIDTH AND LARGER SHALL BE CROSS-BROKEN OR RIBBED AND STIFFENED SO THAT IT WILL NOT "BREATHE", RATTLE, VIBRATE, OR SAG.
- T. ALL DUCT INSULATION SHALL BE UL LABELED FOR FIRE AND SMOKE RATINGS WITH A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50. DUCT INSULATION SHALL COMPLY WITH ALL APPLICABLE ASHRAE AND SMACNA STANDARDS.
- U. MAXIMUM FLEXIBLE DUCT LENGTH SHALL BE 5'-0". ALL FLEXIBLE DUCT SHALL CONFORM TO THE REQUIREMENTS OF U.L. 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. SUPPORT TO ELIMINATE SAGGING & KINKING.
- V. ALL BUILDING PENETRATIONS MUST BE COORDINATED WITH ENGINEER AND SHALL BE FLASHED AND SEALED WEATHERTIGHT. ALL MATERIALS AND COLORS MUST BE PRE-APPROVED BY ARCH./OWNER.
- W. MAINTAIN MIN. 10' BETWEEN OUTDOOR AIR INTAKES AND EXHAUST FAN DISCHARGE, PLUMBING, VENT, ETC.
- X. ALL CONTROL WIRING & CONDUIT SHALL COMPLY WITH NEC.
- Y. ROUTE ALL CONDENSATE DRAINS TO NEAREST FLOOR DRAIN OR MOP SINK.

GRILLE & DIFFUSER SCHEDULE									
MARK	MANUFACTURER TYPE & MODEL	DEVICE SIZE	INLET SIZE	MAX CFM	S.P.	OBD	COLOR	MOUNTING	NOTE
E-6	METALAIRE CC15TB	18x18	6"ø	100	.03	NO	WHITE	RECESSED GYPSUM	2,6,7
R-6	METALAIRE 5800A-6	12x24	6"ø	100	.03	NO	WHITE	LAY-IN ALUMINUM	2,6,7
R-16	METALAIRE CC15TB	24x24	16"ø	1200	.08	NO	WHITE	LAY-IN ALUMINUM	2,6,7
S-6G	METALAIRE H4002	18x18	6"ø	100	.03	NO	WHITE	RECESSED GYPSUM	1,3,6
S-6	METALAIRE 5800A-6	24x24	6"ø	100	.03	NO	WHITE	LAY-IN ALUMINUM	1,6
S-12	METALAIRE 5800A-6	24x24	12"ø	600	.05	NO	WHITE	LAY-IN ALUMINUM	1,6
NOTES:									
1. PROVIDE FLEXMASTER SPIN-IN TAKE OFF WITH SCOOP & DAMPER. PROVIDE MANUAL VOLUME DAMPERS AND ADJUST DIFFUSERS AS SHOWN ON DRAWINGS.									
2. 1/2"x1/2"x1" CUBE CORE.									
3. DIFFUSER TO BE LOUVERED FACE.									
4. PROVIDE FIRE DAMPER DIFFUSER.									
5. OBD TO BE OPERABLE FROM FACE.									
6. ALUMINUM.									
7. PROVIDE MANUAL VOLUME CONTROL DAMPER.									

AIR BALANCE SCHEDULE				
DESIGNATION	SUPPLY (CFM)	RETURN (CFM)	EXHAUST (CFM)	FRESH AIR (CFM)
RTU1-72	2,400	2,400	0	480
RTU2-72	2,400	2,400	0	480
RTU3-90	3,000	3,000	0	650
RTU4-90	3,000	3,000	0	650
EF-1 (RR)	0	0	150	0
EF-2 (FRYER)	0	0	950	0
EF-3 (BROILER)	0	0	1,100	0
TOTAL	10,800	10,800	2,200	2,260

PACKAGED ROOF TOP UNIT SCHEDULE (GAS HEAT/ELECTRIC COOL)				
DESIGNATION	RTU1-72	RTU2-72	RTU3-90	RTU4-90
SUPPLY AIR CFM	2,400	2,400	3,000 (DUAL COMPRESSOR)	3,000 (DUAL COMPRESSOR)
VOLTS/PHASE/HERTZ	208/3/60	208/3/60	208/3/60	208/3/60
MINIMUM CIRCUIT AMPS	42.0 AMPS	42.0 AMPS	42.0 AMPS	42.0 AMPS
MOCP, HACR	50 MOCP	50 MOCP	50 MOCP	50 MOCP
EFFICIENCY RATING, MINIMUM	13.0 EER	13.0 EER	13.0 EER	13.0 EER
GAS HEATING (80% EFF)	200 MBH INPUT (2 STAGE)	200 MBH INPUT (2 STAGE)	200 MBH INPUT (2 STAGE)	200 MBH INPUT (2 STAGE)
POWER EXHAUST	YES	YES	YES	YES
TOTAL COOLING BTUH	72,000 BTUH	72,000 BTUH	90,000 BTUH-2 STAGE	90,000 BTUH-2 STAGE
MANUFACTURER	TRANE	TRANE	TRANE	TRANE
MODEL NUMBER	YHC-072-F3RLA	YHC-072-F3RLA	YHC-092-F3RLA	YHC-092-F3RLA
OVERALL WEIGHT, MAX	1300 LBS	1300 LBS	1300 LBS	1300 LBS
DISC. SWITCH & CONVENIENCE RECEPTACLE	CIRCUIT BKR, YES	CIRCUIT BKR, YES	CIRCUIT BKR, YES	CIRCUIT BKR, YES
UNIT CONFIGURATION	DOWN FLOW	DOWN FLOW	DOWN FLOW	DOWN FLOW
ACCESSORIES AND NOTES:				
1. HEATING PERFORMANCE BASED UPON OF OF DB OAT & 68F DB RAT.				
2. COOLING PERFORMANCE BASED UPON 80F DB/67F WB @ 95F AMBIENT.				
3. PROVIDE 0-100% COMPARATIVE ENTHALPY ECONOMIZER WITH RAIN HOOD. MOUNT UNIT ON 14" HIGH, INSULATED "HYCURB" OR EQUAL, SLOPED ROOF CURB WITH FLASHING.				
4. PROVIDE POWER EXHAUST PACKAGE, OUTDOOR TEMPERATURE SENSOR, AND HUMIDISTAT. PROVIDE HOT GAS REHEAT.				
5. PROVIDE MANUFACTURER'S STANDARD FEATURE PACKAGES & LOW AMBIENT COOLING FEATURE.				
6. CO2 SENSING AND RA REMOTE SENSORS. PROVIDE DUCT MOUNTED RA DUCT SMOKE.				
7. PROVIDE SINGLE POINT ELECTRICAL POWER KIT, THROUGH THE BOTTOM CONNECTION.				
8. PROVIDE WP/GFCI CONVENIENCE OUTLET, MOUNTED FOR IN-USE WET LOCATION.				
9. PROVIDE PHASE LOSS MONITOR AND BROWN OUT PROTECTION, AND UNIT MOUNTED CIRCUIT BREAKER.				
10. PROVIDE VIBRATION ISOLATOR SPRINGS AND STAINLESS STEEL DRAIN PANS.				
11. PROVIDE CARBON DIOXIDE SENSOR IN RETURN DUCT, FOR DEMAND CONTROL VENTILATION OF OUTSIDE DAMPER.				
12. UNIT SHALL BE ASHRAE 90.1 COMPLIANT. REFRIGERANT SHALL BE R-410A.				
13. PROVIDE 1 1/2" CONDENSATE DRAIN TO GUTTER DRAIN OR ROOF DRAIN WITH P-TRAP AND INDIRECT CONNECTION.				
14. INTERLOCK RTU3 WITH EF2. INTERLOCK RTU4 WITH EF3.				

EXHAUST FAN SCHEDULE	
DESIGNATION	EF-1
MANUFACTURER	GREENHECK
MODEL NUMBER	LDP-75G
STATIC PRESSURE	0.25"
AIRFLOW (MAX)	150 CFM
HP/WATTS	1/50 HP
SONES, MAX	3.0 SONES
RPM	1,300 RPM
VOLTS/PHASE/HZ	120/1/60
MOUNTING	ROOF
NOTES:	1,2,3,4,5,6,7
ACCESSORIES & NOTES:	
1. WIRE BY DIVISION 26. INTERLOCK WITH RESTROOM LIGHTING.	
2. PROVIDE GRAVITY BACKDRAFT DAMPER.	
3. PROVIDE WITH DISCONNECT.	
4. PROVIDE WITH SPEED CONTROLLER, CONCEALED AT FAN.	
5. CONNECT TO LOCAL LIGHTING CIRCUIT FOR OPERATION.	
6. 14" INSULATED ROOF CURB WITH FLASHING.	
7. ALUMINUM BIRD SCREEN.	

NOV 24 2021

Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX. 78216

DATE: 11/24/2021
JOB NO: 44387
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SHEET NUMBER:

7.4

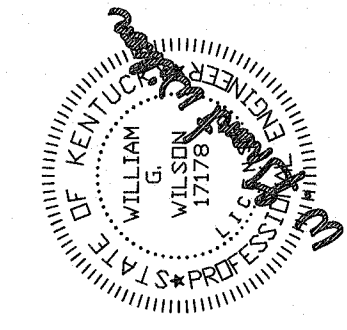
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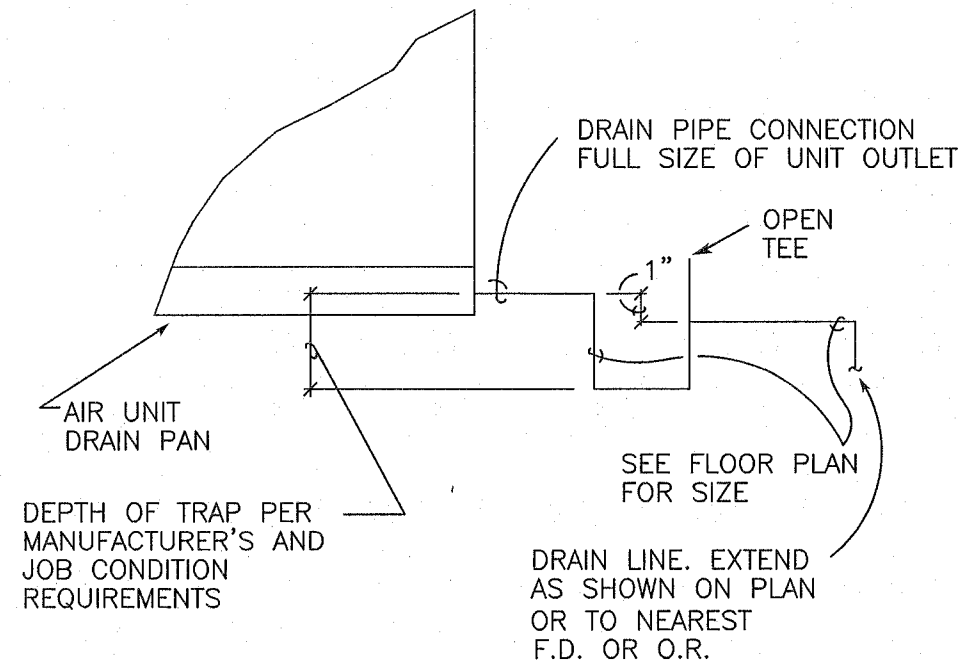
REVISIONS:

MECHANICAL SCHEDULES & DETAILS

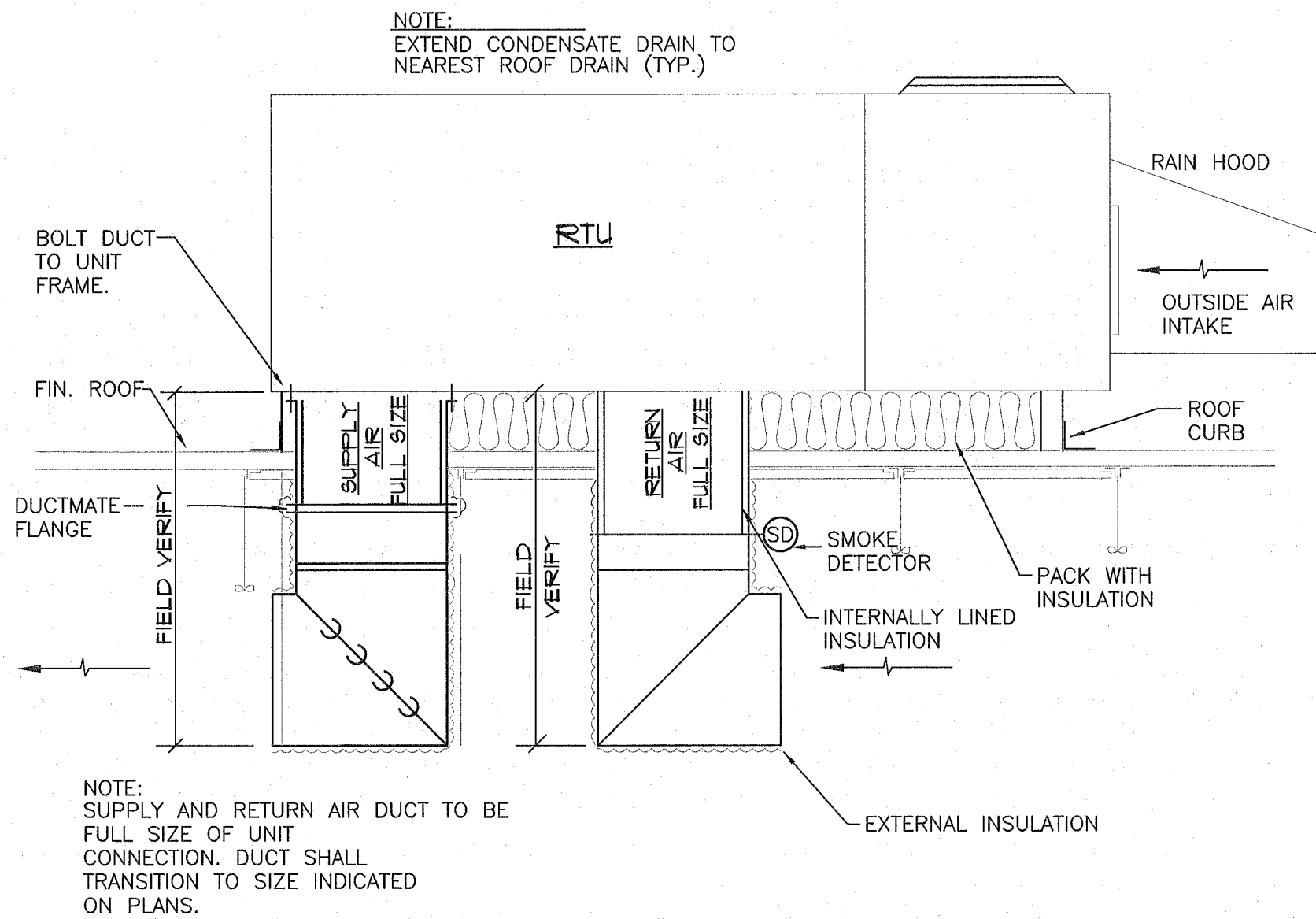
BURGER KING
Versailles Road
Frankfort, KY 40601
STORE #

E-TECH
CONSULTANTS PLLC
378 PARK AVENUE, LEXINGTON, KY 40502 (859) 254-4200

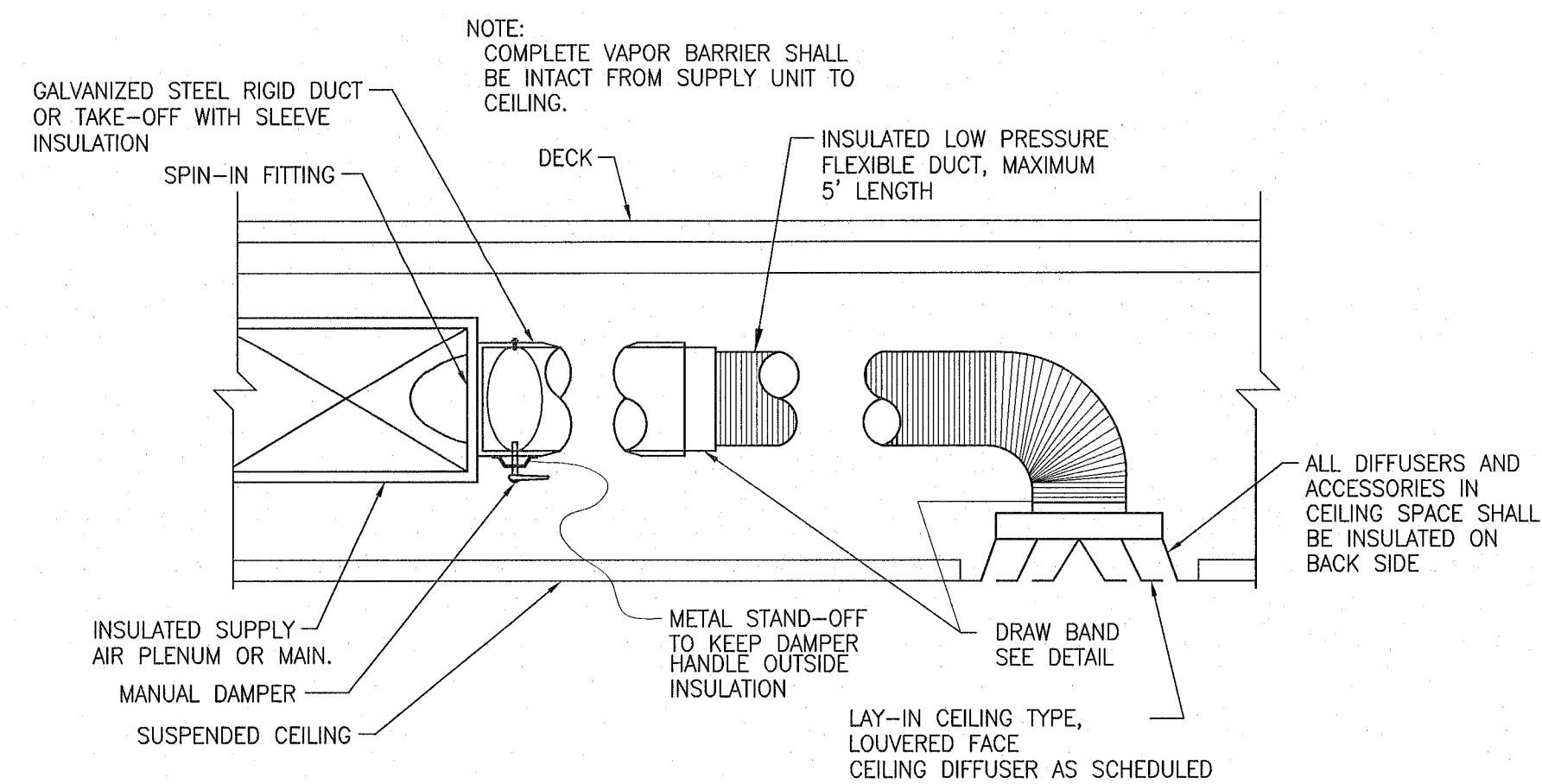




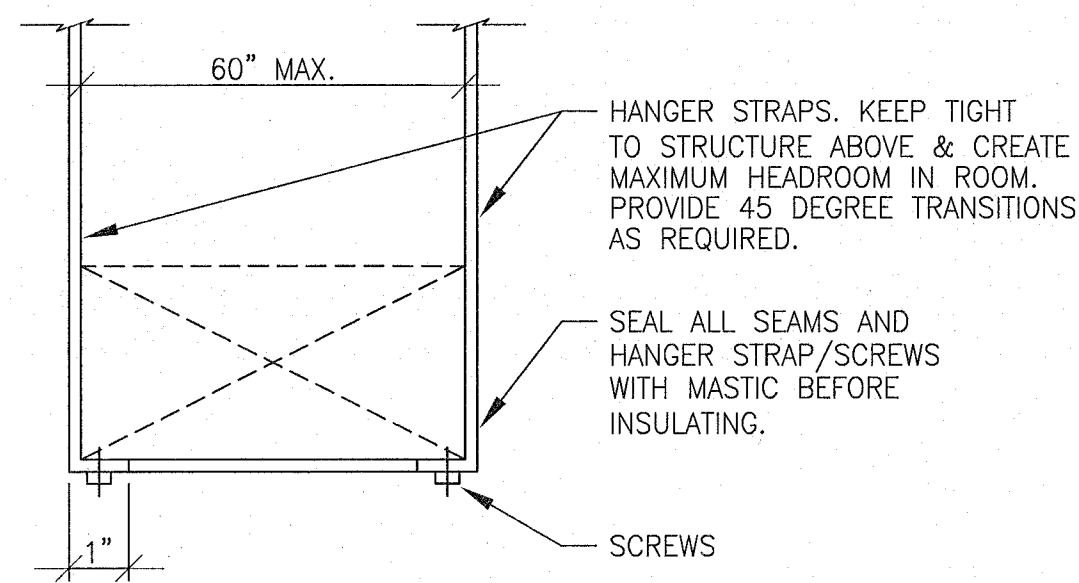
1 TRAPPED CONDENSATE DRAIN PIPING
N.T.S.



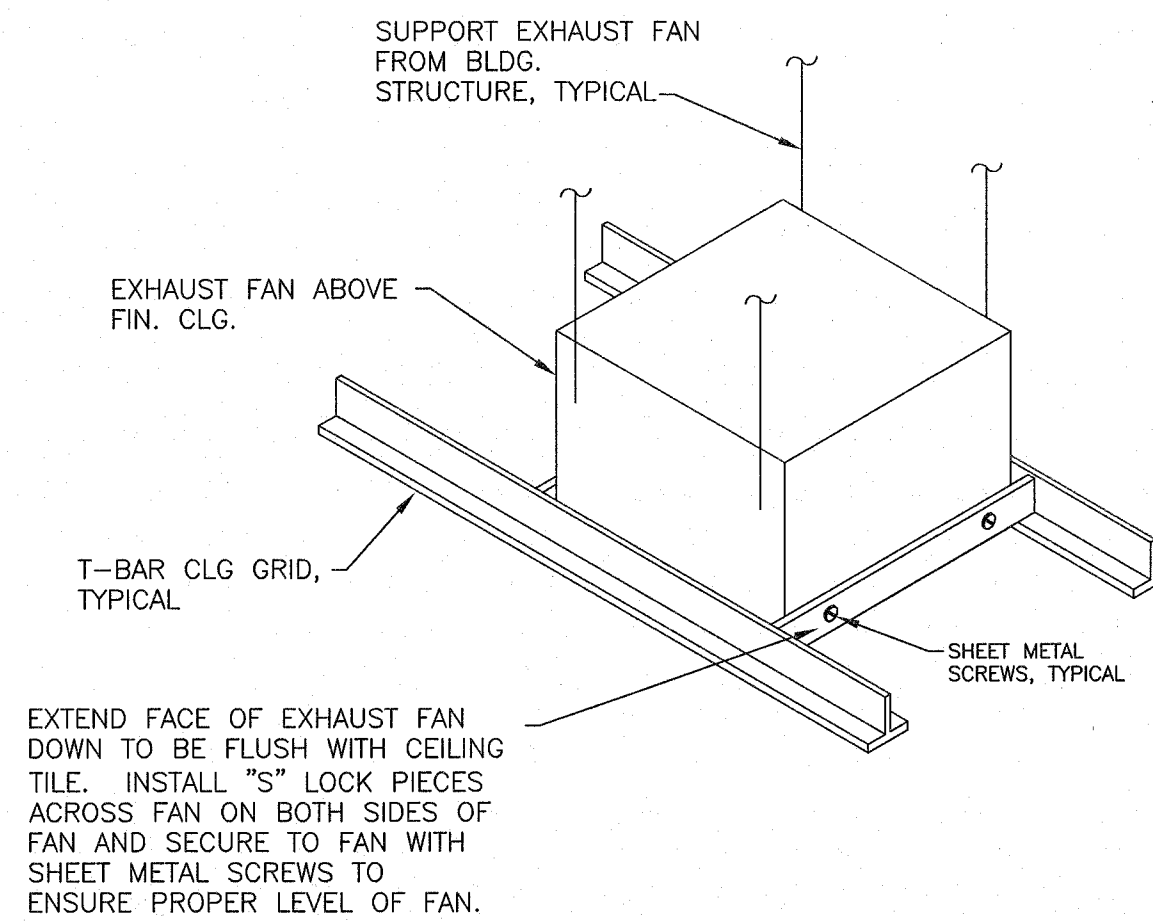
2 ROOF TOP UNIT DETAIL
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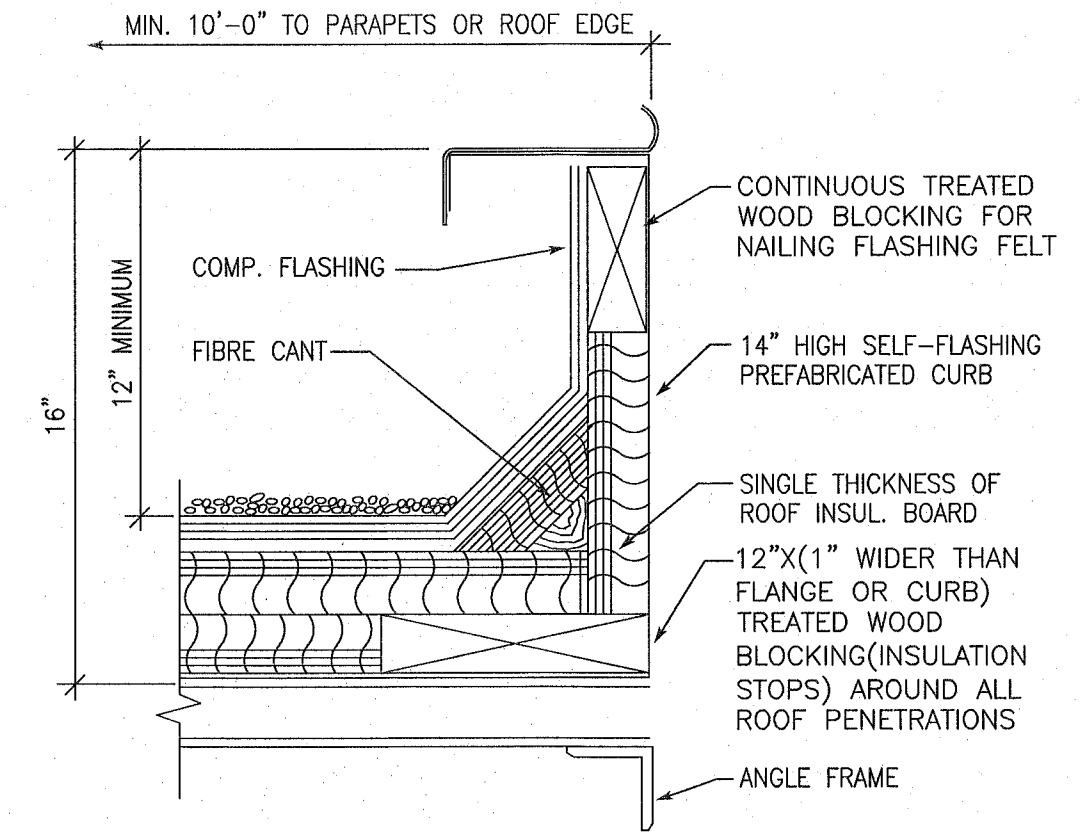
4 DUCTWORK AND DIFFUSER DETAIL
N.T.S.



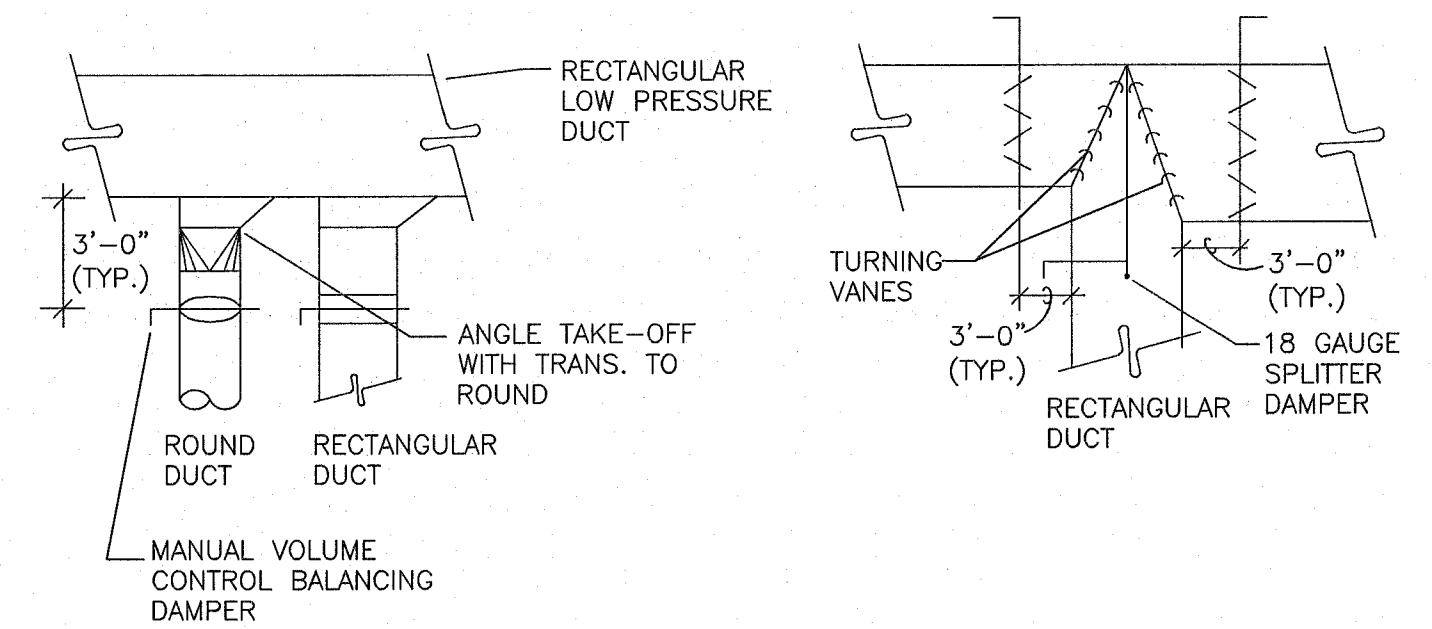
5 DUCTWORK HANGING DETAIL
N.T.S.



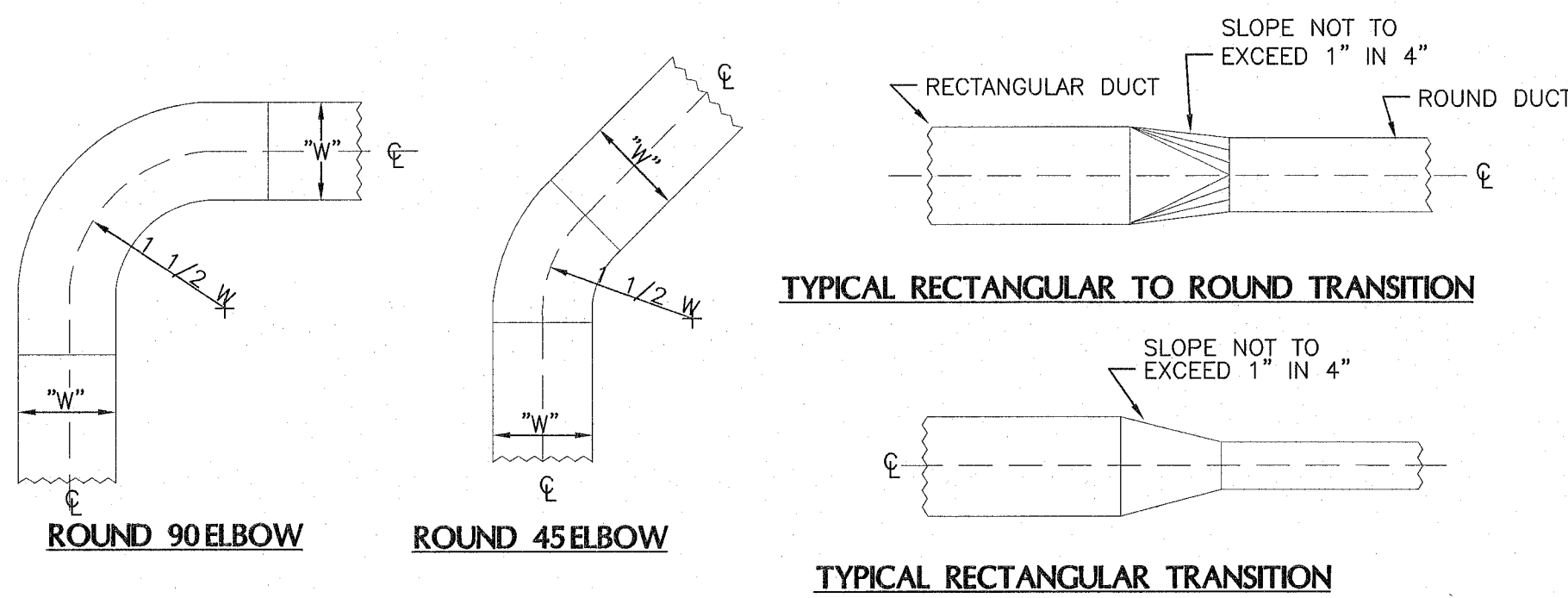
6 CEILING MOUNTED EXHAUST FAN INSTALLATION DETAIL
N.T.S.



3 ROOF TOP UNIT CURB DETAIL
N.T.S.



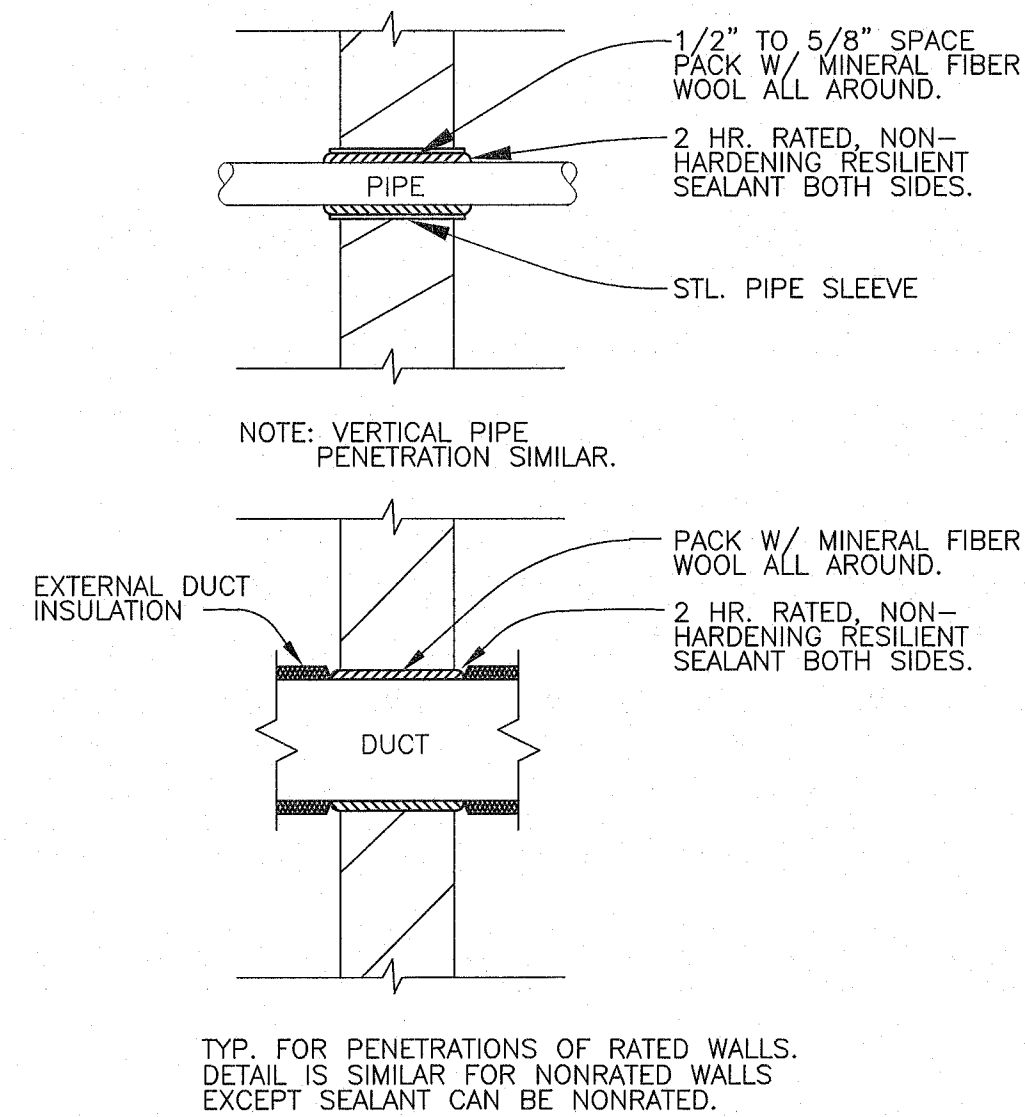
7 BRANCH TAKE OFF DUCTWORK DETAIL
N.T.S.



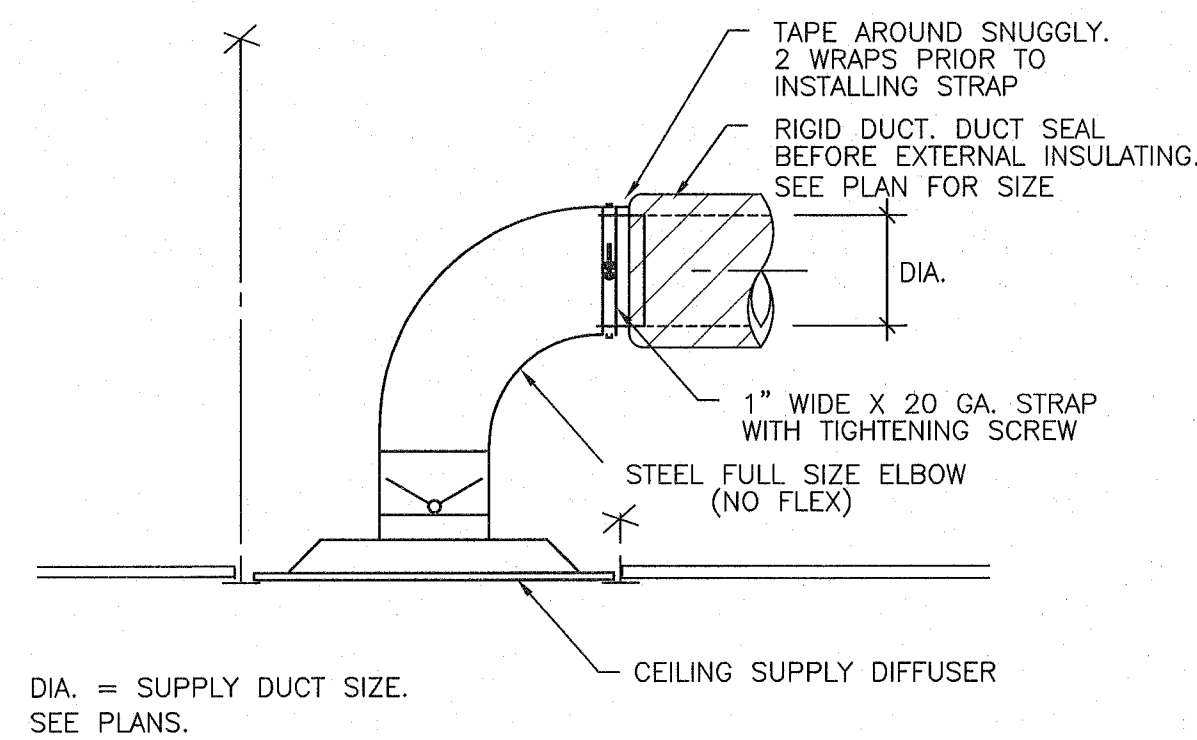
INSTALLATION NOTES

- ALL DUCTS SHALL BE CONSTRUCTED AND ERECTED IN A NEAT AND WORKMANLIKE MANNER.
- DUCTS SHALL BE CONSTRUCTED OF THE WEIGHTS, GAGES, AND MATERIAL AS SPECIFIED.
- THE DIMENSIONS SHOWN FOR ALL DUCTS SHOWN IN PLAN GIVE THE WIDTH FIRST AND THEN THE HEIGHT.
- DUCTS SHALL BE SECURELY ATTACHED TO THE BUILDING IN AN APPROVED MANNER.
- DIVERGING TRANSITION PIECES SHALL BE MADE AS GRADUAL AS POSSIBLE.
- ACCESS PANELS SHALL BE INSTALLED BEFORE AND/OR AFTER EQUIPMENT IS INSTALLED IN THE DUCT.
- JOINTS AND SEAMS OF SUPPLY DUCTS SHALL BE SECURELY FASTENED, SEALED, AND MADE AIR TIGHT.

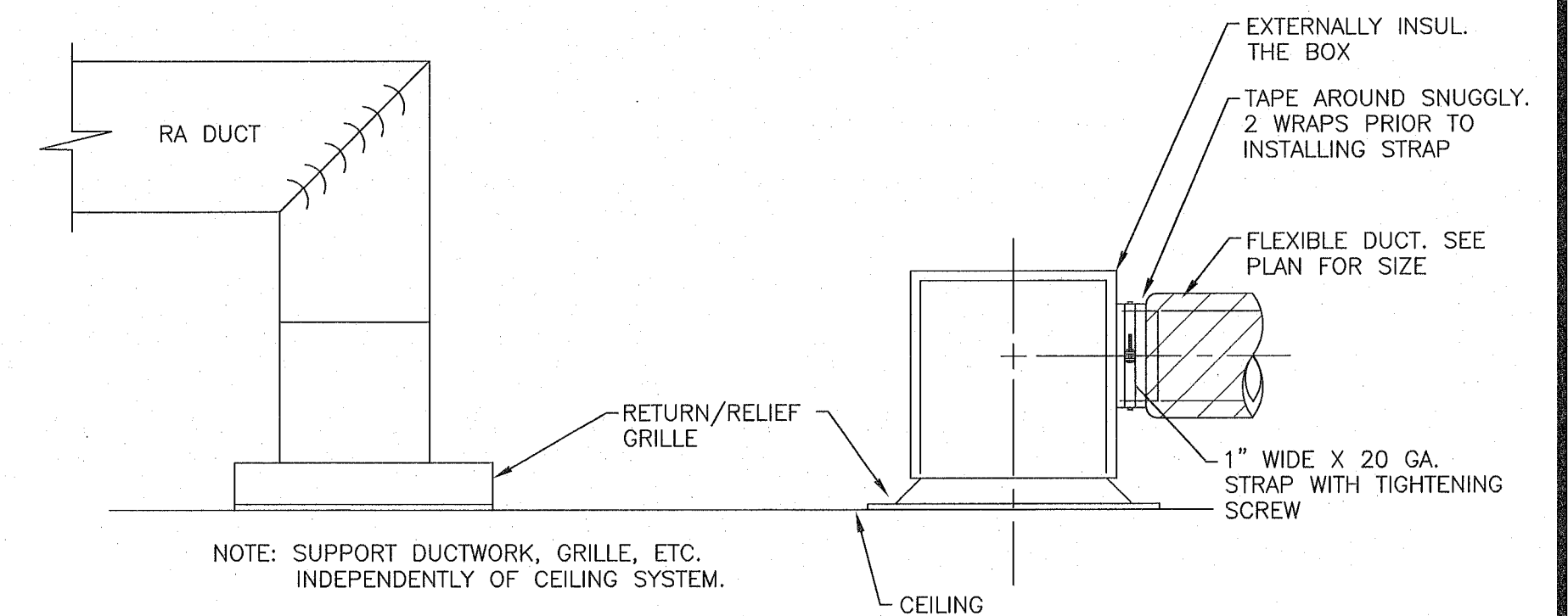
8 LOW PRESSURE DUCTWORK DETAILS
N.T.S.



9 PENETRATIONS THROUGH WALL DETAIL
N.T.S.



10 LAY-IN DIFFUSER DETAIL
N.T.S.



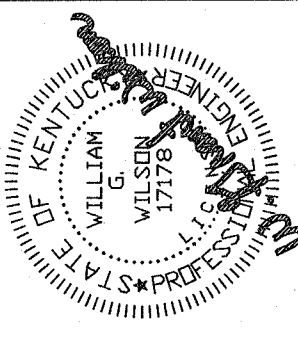
11 RETURN/RELIEF AIR GRILLE DETAIL
N.T.S.

REVISIONS:

MECHANICAL SCHEDULES & DETAILS

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

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378 PARK AVENUE, LEXINGTON, KY 40502 (859) 254-4200



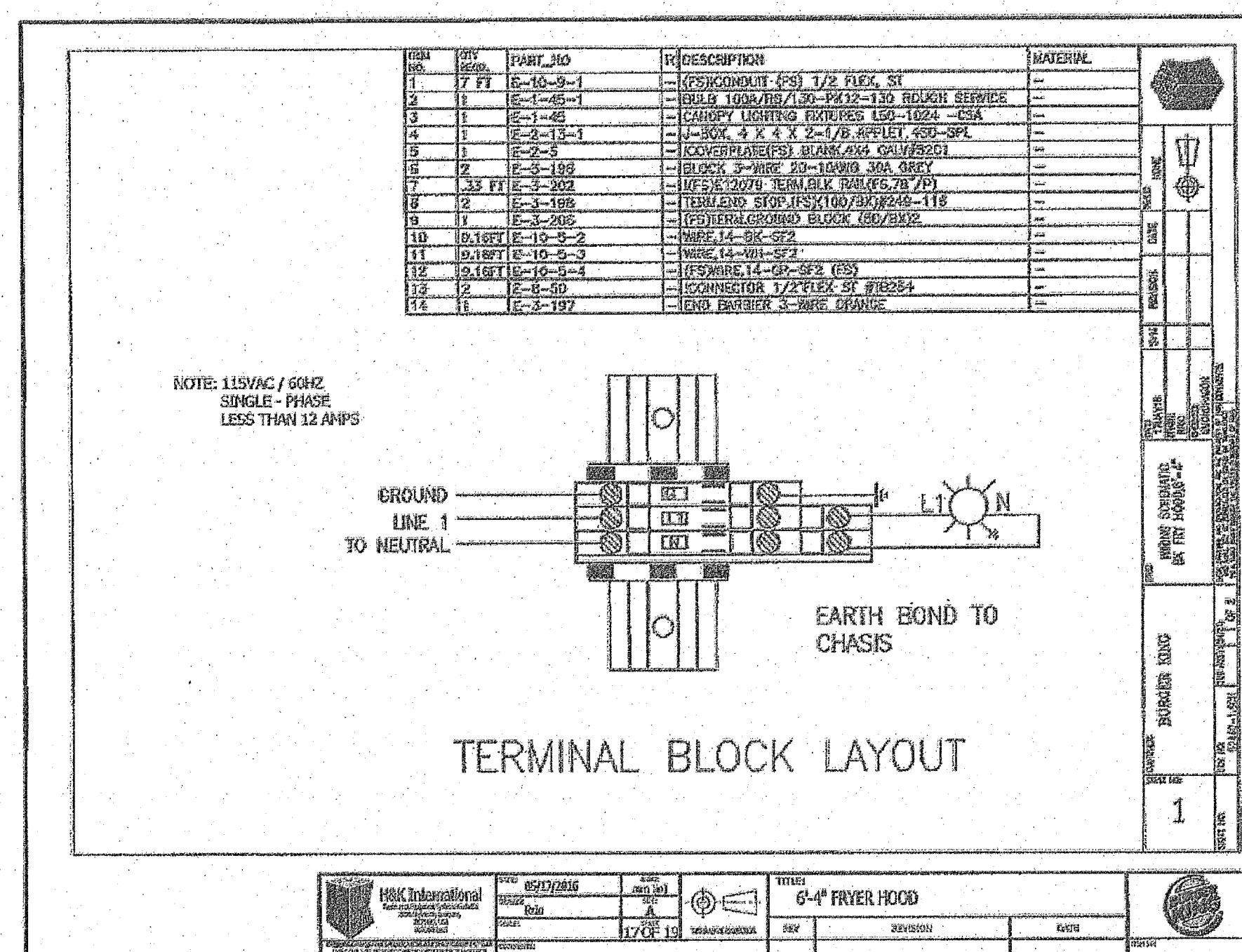
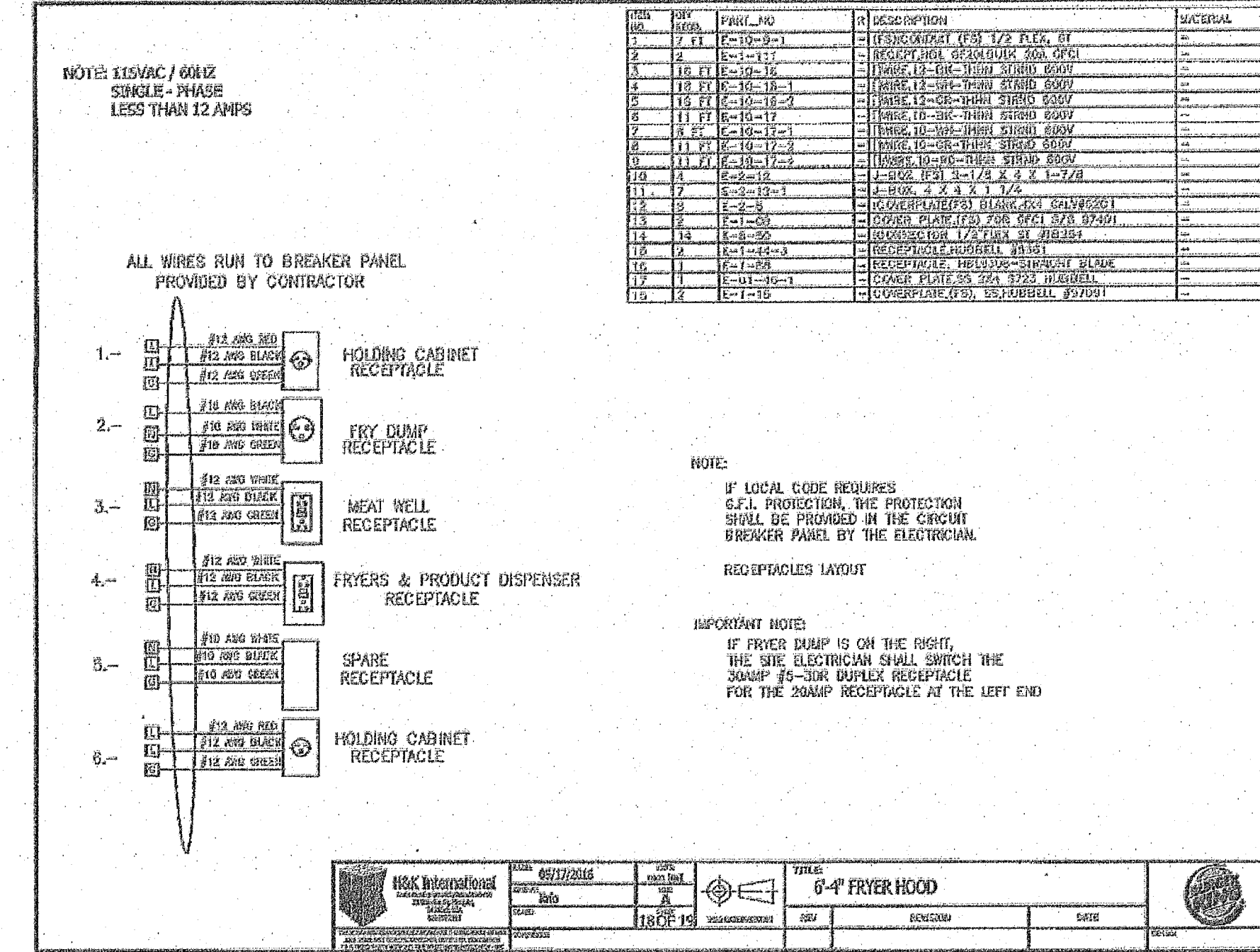
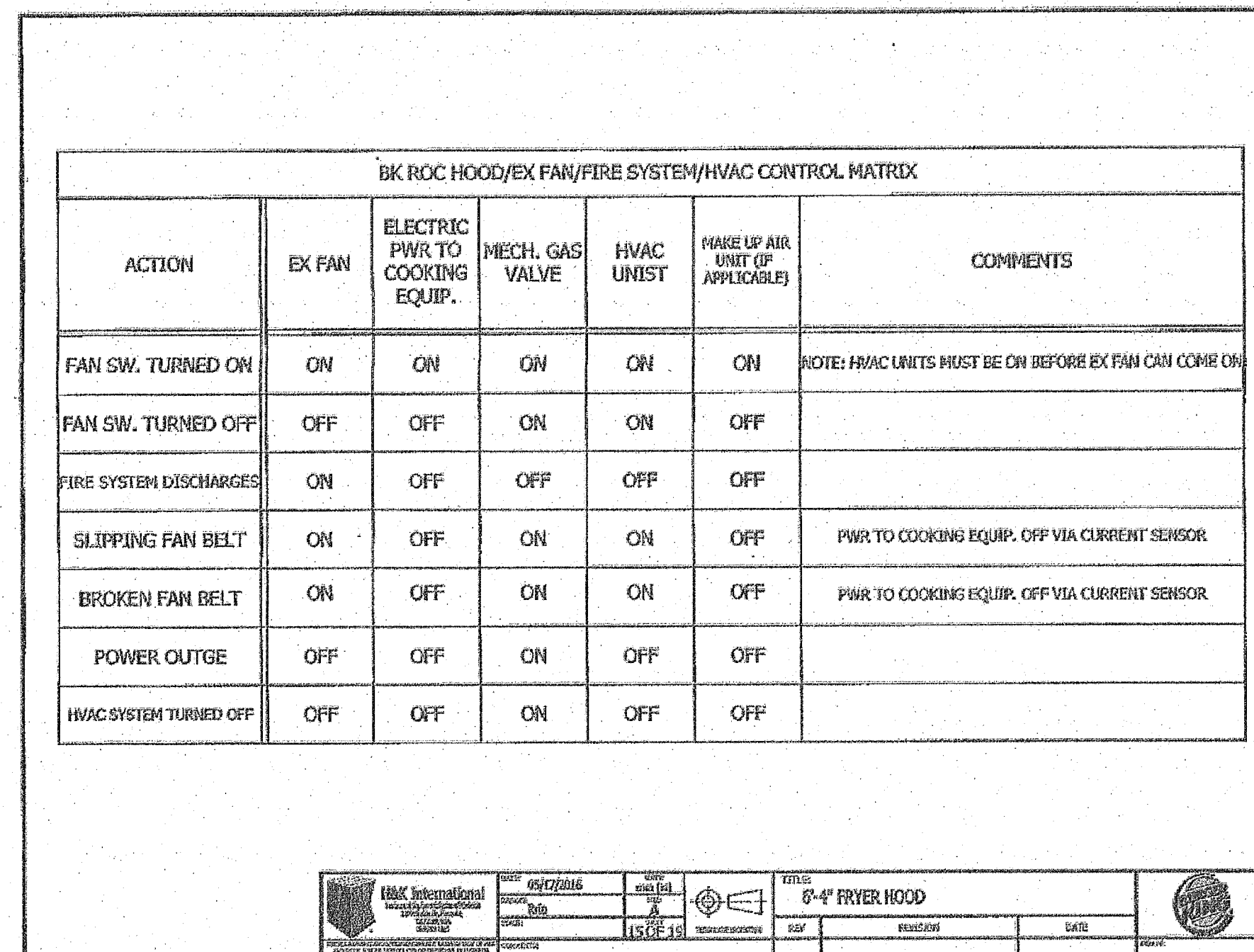
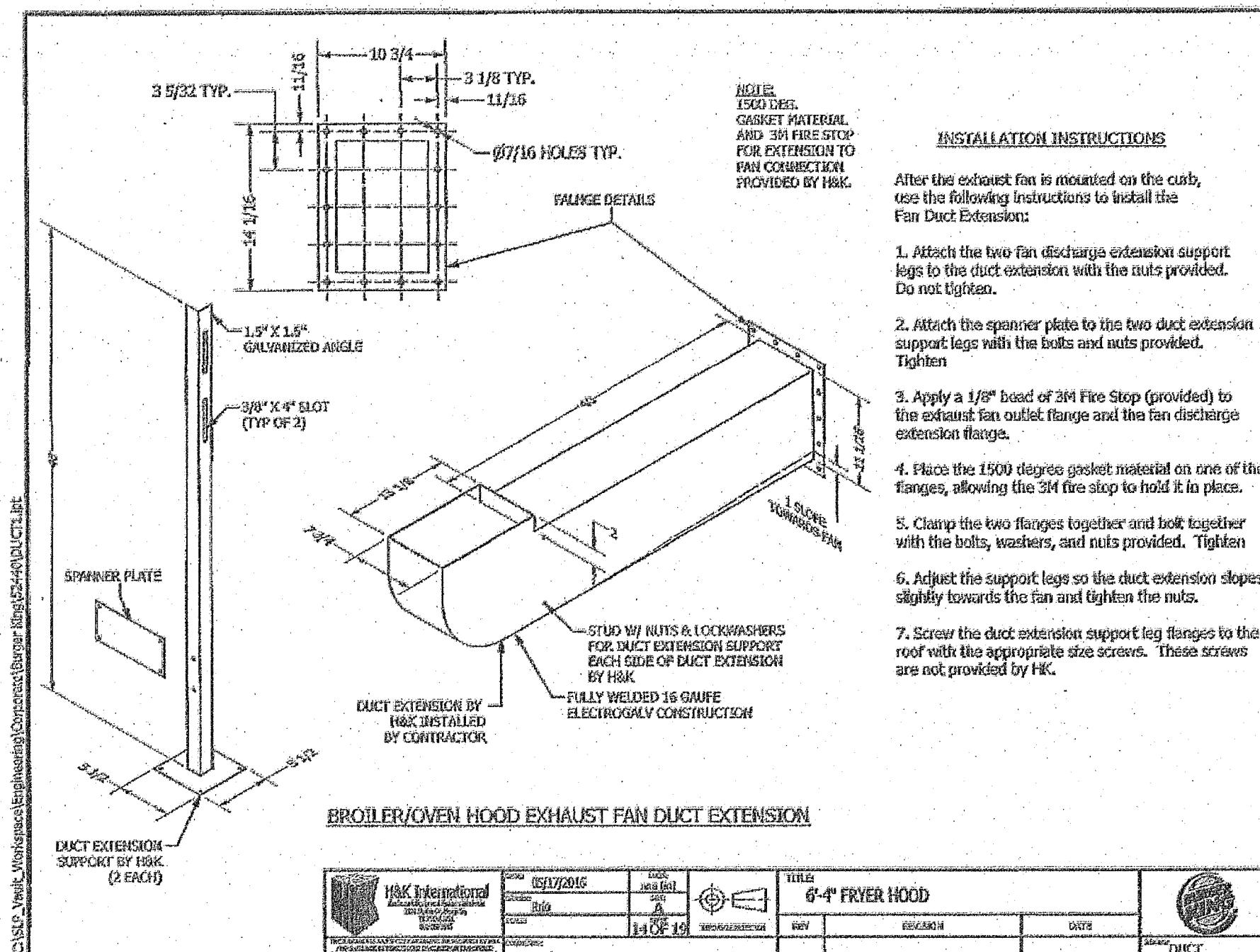
NOV 24 2021

Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

7.5

OF



MECHANICAL HOOD DETAILS

ERGER KING
Versailles Road
Frankfort, KY 40601



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CONSULTANTS PLLC
VENUE, LEXINGTON, KY 40502 (859)

NOV-24 2021

JUN 04 2021

Charles

William Pope & Associates
ARCHITECTURE PLANNING
7400 BLANCO RD., SUITE 257, SA

DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

7.7

OF

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

BROILER/OVEN HOOD MODEL: ELX-ND-BDL-PM-OB-43-IBK-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

Drawg no.: C-12844

Sheet: 1
Rev.: 05

MODEL NUMBER DESCRIPTION

BROILER/OVEN HOOD MODEL NUMBER DESCRIPTION

ELX-ND-BDL-PM-OB-43-IBK-NA-BOH-7-7

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

DRAWING INDEX

Sheet #	Description
01	COVER SHEET
02	BROILER AND OVEN HOOD 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 FIRE-PIPING DETAILS
14.1	OPTIONAL ANSUL FIRE-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 EXHAUST CONNECTIONS
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	OR HOOD-EXHAUST FAN-FIRE SYSTEM-INAC SYSTEM CONTROL MARCH

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 for the Job Site Contractor

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., Marietta, WI
Office Phone: 800-902-6785

HOOD LISTING AND APPROVAL REFERENCE

BROILER/OVEN HOOD
INTERTEK TESTING SERVICES, INC.
BROILER HOOD IS ETL LISTED EXHAUST HOODS WITHOUT EXHAUST DAMPERS, REPORT NO. 31006830RT-006.
TESTED UNDER UL STANDARD 710.

NATIONAL FIRE PROTECTION ASSOCIATION
MEETS ALL REQUIREMENTS OF NFPA-98
"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 UAC, BOCA, SBCA AND IMC.

NEW YORK CITY DEPARTMENT OF BUILDING
MEA NO. 113-89-14

NORTH AMERICAN BROILER/OVEN HOOD SPECIFICATIONS

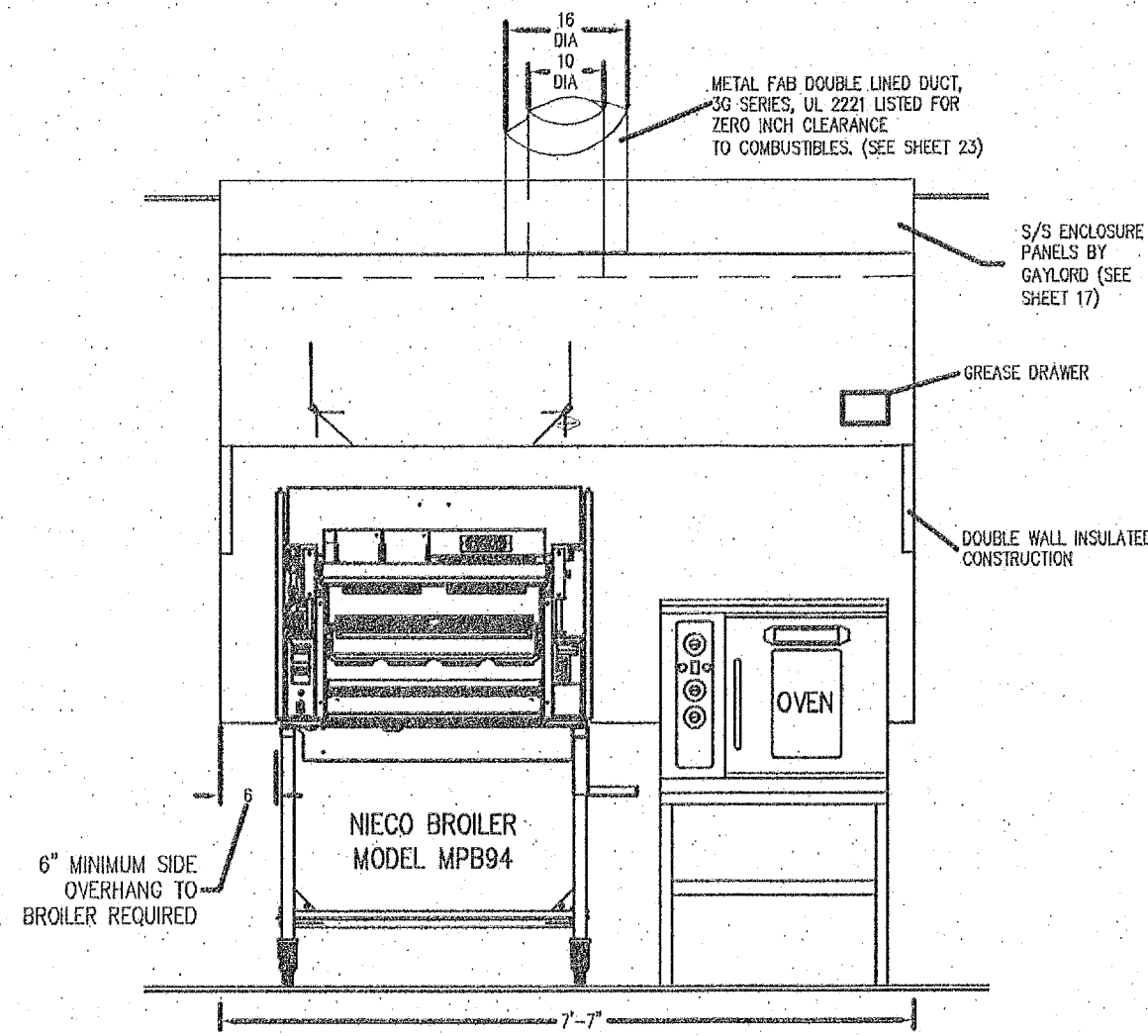
Broiler/Oven Hood Specifications

Gaylord Model ELX-ND-BDL-PM-OB-43-IBK-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 XOS Extractors. The extractor testing meets ASTM Standard F2510 -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-98. Also built into the back of the hood are utility recesses 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 304 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.

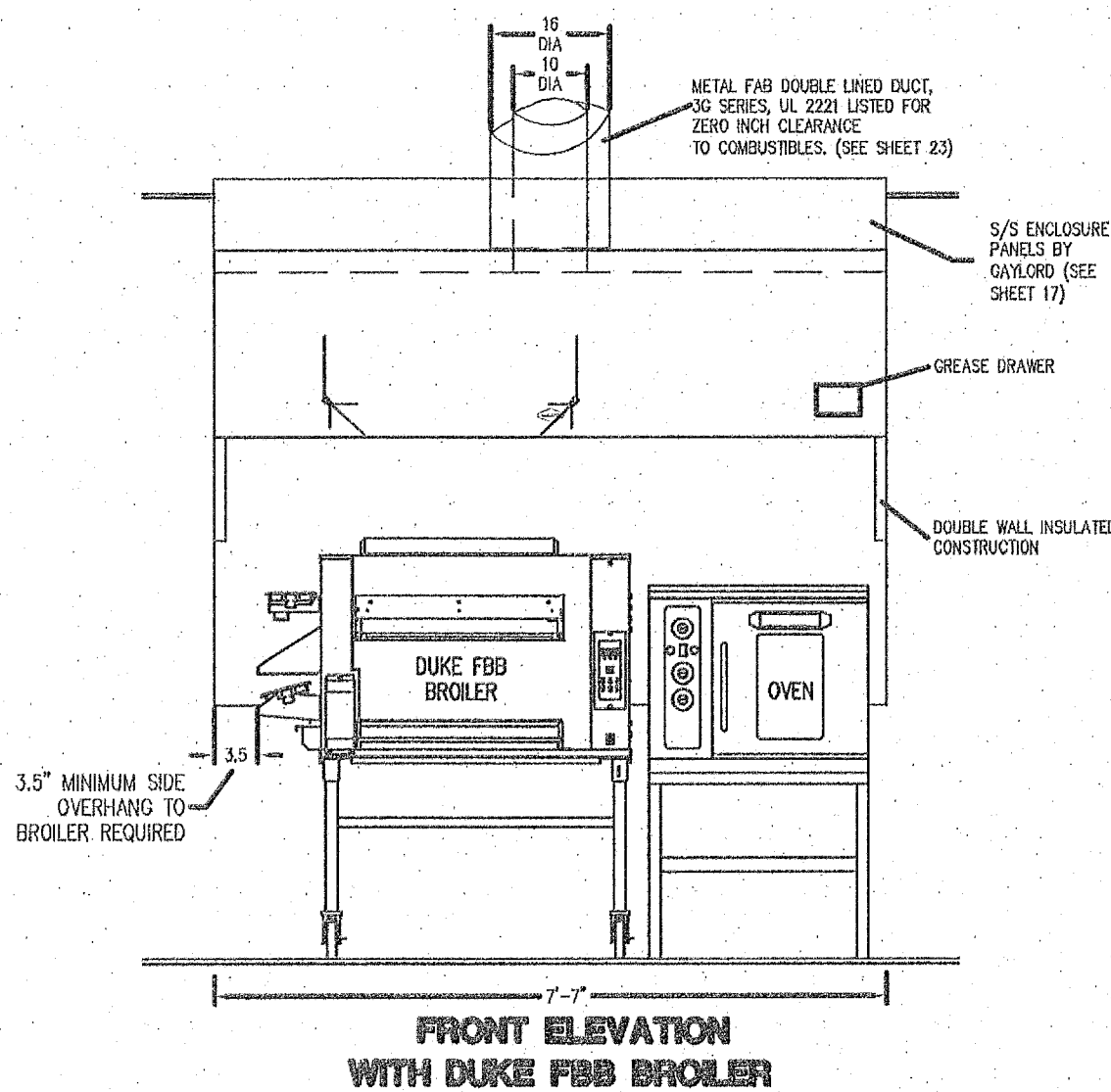
Hanging Weight. The hanging weight of the broiler/oven hood is 450 lbs.



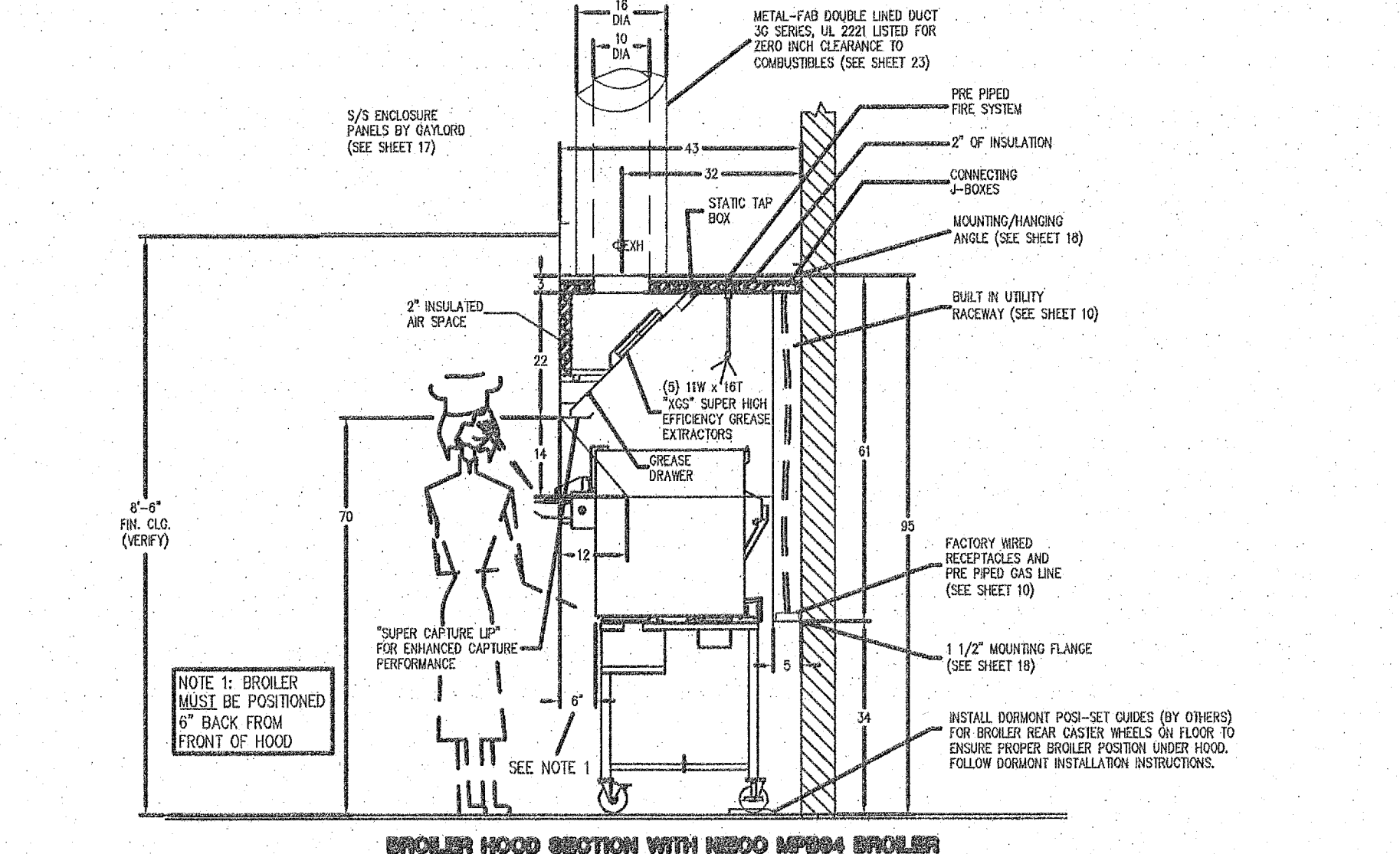
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04	CO	8/08/11	REVISED MODEL # TO ELX							C-12844
03	SN	6/22/10	NO CHANGE							
02	SN	2/24/10	NO CHANGE							

REV/DATE	DATE	DESCRIPTION	APP'D	BY	DATE	MODEL #	ITEM #	WORK ORDER	DATE	11/25/09
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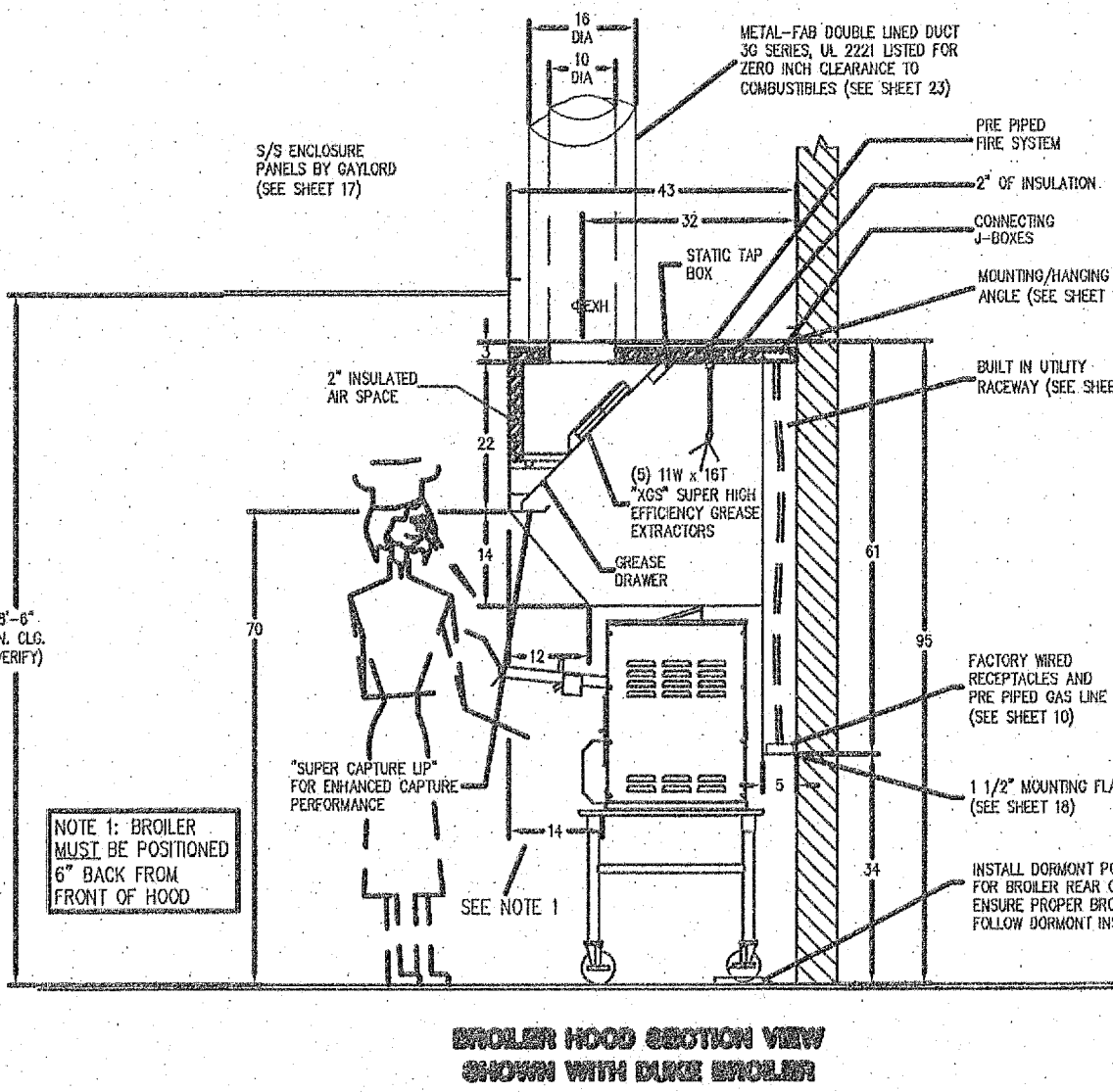
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04	CO	8/08/11	REVISED MODEL # TO ELX							C-12844
03	SN	6/22/10	NO CHANGE							
02	SN	2/24/10	LOWERED MOUNTING HEIGHT							



REV/DATE	DATE	DESCRIPTION	APP'D	BY	DATE	MODEL #	ITEM #	WORK ORDER	DATE	11/25/09
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04	CO	8/08/11	ADDED THIS SHEET & NEW EQUIP.							C-12844
03	SN	6/22/10	NO CHANGE							
02	SN	2/24/10	LOWERED MOUNTING HEIGHT							



REV/DATE	DATE	DESCRIPTION	APP'D	BY	DATE	MODEL #	ITEM #	WORK ORDER	DATE	11/25/09
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04	CO	8/08/11	REVISED MODEL # TO ELX							C-12844
03	SN	6/22/10	MOVED DUCT FORWARD 3"							
02	SN	2/24/10	LOWERED MOUNTING HEIGHT							



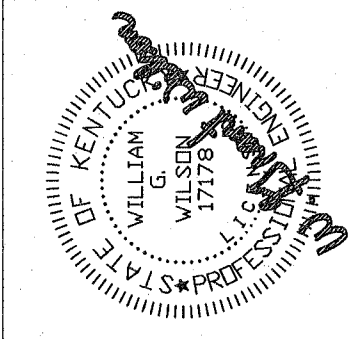
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04	CO	8/08/11	REVISED MODEL # TO ELX							C-12844
03	SN	6/22/10	MOVED DUCT FORWARD 3"							
02	SN	2/24/10	LOWERED MOUNTING HEIGHT							

REVISIONS:

MECHANICAL HOOD DETAILS

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

E-TECH
CONSULTANTS PLLC
378 PARK AVENUE, LEXINGTON, KY 40502 (859) 254-4200



Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11/24/2011
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

7.8

OF




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

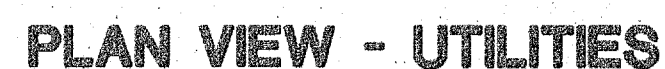


BAYLORD
10000 S.W. 14TH ST.
MIAMI
FL 33155-1149

NORTH AMERICAN BROILER/OVEN HOOD
T-T
BUNGER KING CORPORATION



	NORTH AMERICAN BROILER/OVEN HOOD	DATE	11/25/99
	7'-7"	BY	H.T.S.
	BURGER KING CORPORATION	NO	C-12644
		REV	



DAYLORD NORTH AMERICAN BROILER/OVEN HOOD
7-77
1000 3RD AVE. ST.
TOLSON
CA 94612-1115
BURGER KING CORPORATION



GAYLORD NORTH AMERICAN BROTHER/OVEN HOOD
7-7
1990 W. ARMY ST.
JULIAN
OR 97531
BUNGER KING CORPORATION



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




BAYLORD NORTH AMERICAN BROILER/OVEN NOOK
7-7
1600 ST. AVERY ST.
BALTIMORE
OR 7082-1110
BURGER KING CORPORATION




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




 <p> 10000 W. HARRY ST. BURBANK CA 91504-1000 </p>	NORTH AMERICAN BROILER/OVEN HOOD		DATE 11/25/09
	7-7		ORDER N.T.S.
	BURGER KING CORPORATION		PO# C-12844
			QTY 1
			UNIT 1

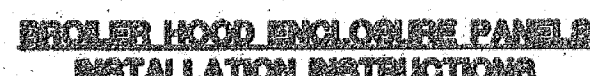


**TYPICAL OPTIONAL WALL MOUNTED FFE SYSTEM ARRANGEMENT
USING ONE SYSTEM TO SERVE BOTH HOODS**

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04	UN	8/26/31	REVISY MODEL # TO ELX	ELX-2D-42-718-21-41-40-2-7-7						11/25/00	11/25/00	
03	SN	6/22/00	CHANGED NOTES							C-1234	11/25/00	11/25/00
02	SN	2/24/00	NO CHANGE								11/25/00	11/25/00
01	NEW/REVISY	DATE	DESCRIPTION	APPRO	SN	ITEM	WORK ORDER				11/25/00	11/25/00

[illegible]


05	AK	11/5/11	NO CHANGE		MODEL #	ITEM #	WORK ORDER	 NORTH AMERICAN BROILER/OVEN HOOD 7'-7" DAYLONG KENSA CORPORATION 22 25 26
04	CS	8/28/11	REVISED MODEL # TO ELX	ELX-40-402-40-43-41-402-4-1				
03	SN	6/22/10	NO CHANGE					
02	SN	2/25/10	CHANGED TO MATCH CSYSD SPEEDS					
REVOLUTION	DATE	DESCRIPTION	APPRO	SIN	ISS	REPAIR	LOG	

[illegible][illegible]

1. METAL-FAB GREASE DUCT IS UL LISTED FOR 0" CLEARANCE TO COMBUSTIBLES:
 - > UL 1978
 - > UL 2221
 - > UL FILE #MH2506
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.

[illegible]

HANGING DETAIL FOR BROILER/OVEN HOOD

05	JA	11/5/11	NO CHANGE		MODEL #	ITEM #	WORK ORDER	 <p> NORTH AMERICAN BEECHER/OWEN HOOD 7-7 C-1244 BURNER KING CORPORATION </p>
04	00	6/11/11	REVISED MODEL # TO ELX	UX-410-114-01-15-114-004-7-7				
03	00	6/22/10	NO CHANGE					
02	SN	2/25/10	NO CHANGE					
REV/REPLY	DATE	DESCRIPTION	APP'D	SN	REV	ISS	CO	

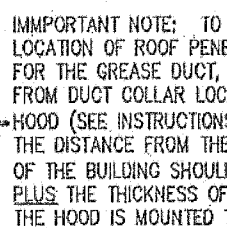
Cutting Hole In The Roof Deck


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.

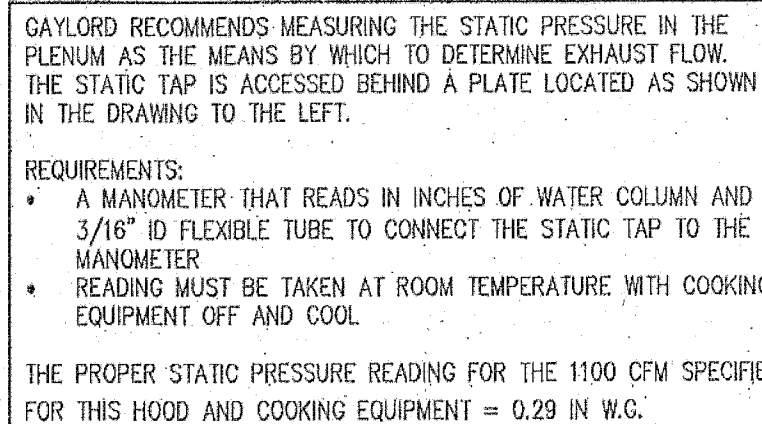
1. The roof curb is not symmetrical and therefore it is very important that it be installed per these instructions.
2. The curb is set at parallel the parapet wall as shown on the illustration at the right.
3. The discharge of the exhaust fan is horizontal and faces away from the roof parapet.

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.



04	JA	11/31/11	NO CHANGE	MODEL #	ITEM #	WORK ORDER	 NORTH AMERICAN BULKHEAD/DOOR HOOD 7'-7" BLUNDER KING CORPORATION	DATE	11/30/16
03	CA	8/26/11	RENDED MODEL # TO ELX	UL-10-BUL-70-10-10-10-10-7-1				RELS	11-15
02	CA	6/22/10	ADDED DIMENSION NOTES					C-12344	
01	SN	2/25/10	NO CHANGE						
NEW/REPLY		DATE	DESCRIPTION	APPROV	SN	ITEM	REASON	REASON	DATE

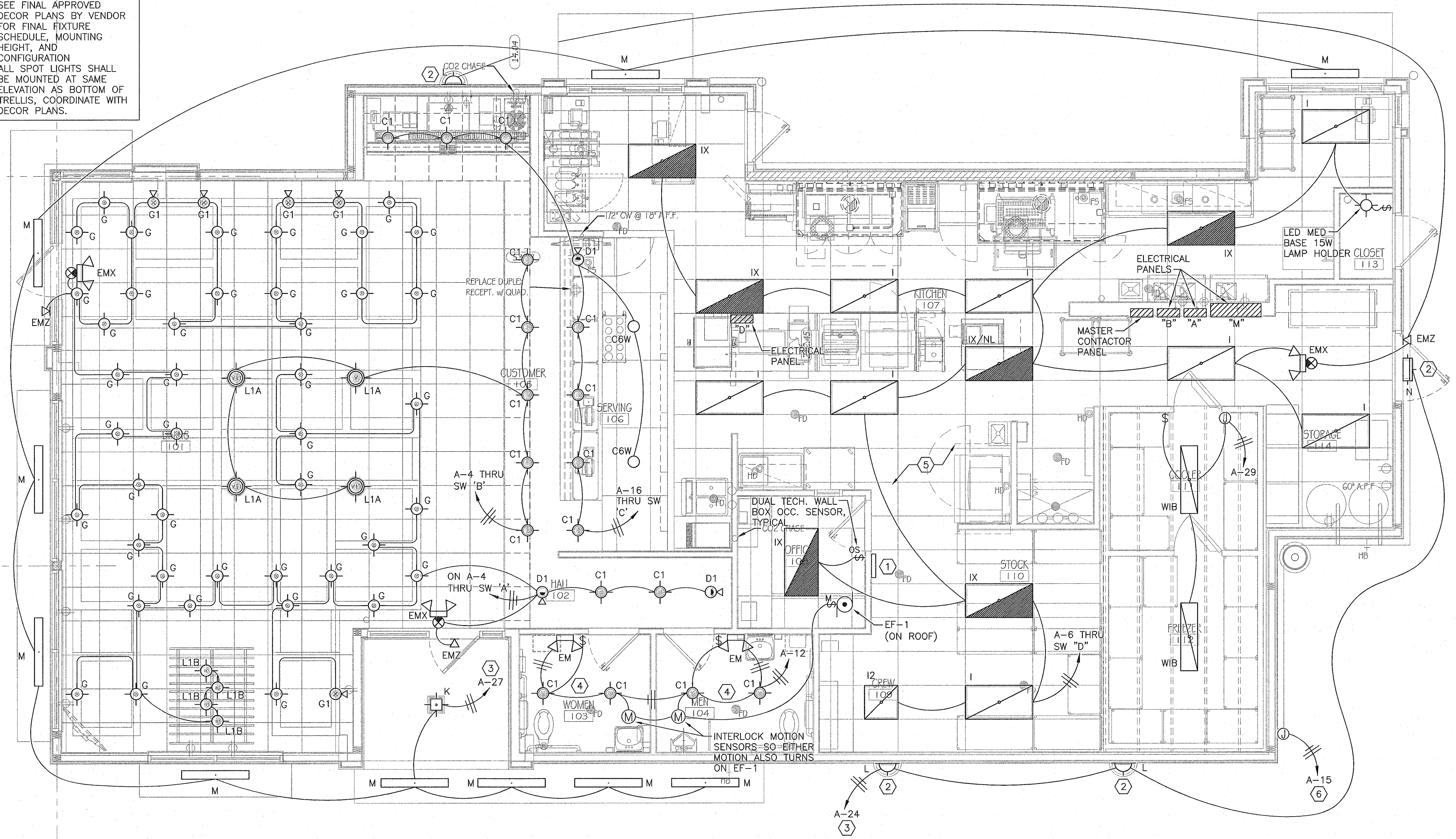


PROCEDURE TO CONFIRM HOOD EXHAUST VOLUME

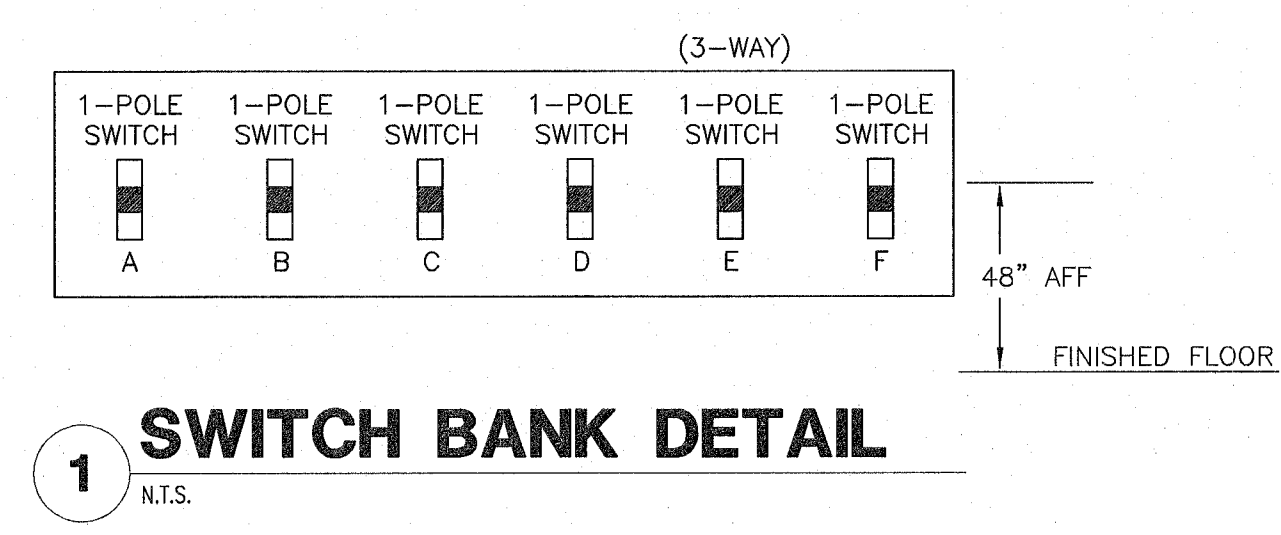
03	JA	11/5/78	NO CHANGE	MODEL #	ITEM #	WORK ORDER	 NORTH AMERICAN BROS./OVEN HOOD 7-7 BUREAU K99 CORPORATION	DATE	6/2/79
04	Q2	8/28/78	REVISED MODEL # TO ELX	ELX-10-02-79-01-14-001-7-7				DATE	8/15
05	Q2	6/22/79	ADDED THIS SHEET					DATE	6-12-94
REVISION	DATE	DESCRIPTION	APPRO	SH	DES	DATE		DATE	

FILE NAME: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWING: ELECTRICAL SHEET 8.2
SCALE: 1/4" = 1'-0"

A. SEE FINAL APPROVED DECOR PLANS BY VENDOR FOR FINAL FIXTURE SCHEDULE, MOUNTING HEIGHT, AND CONFIGURATION
B. ALL SPOT LIGHTS SHALL BE MOUNTED AT SAME ELEVATION AS BOTTOM OF TRELLIS. COORDINATE WITH DECOR PLANS.



8.2 LIGHTING PLAN
SCALE: 1/4" = 1'-0"



1 SWITCH BANK DETAIL
N.T.S.

GENERAL SHEET NOTES

- A. CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- B. CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- C. CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND OWNER.
- D. CONTRACTOR TO COORDINATE ALL NEW WORK SO AS NOT TO DAMAGE ANY EXISTING OR NEW EQUIPMENT.
- E. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- F. ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- G. CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- H. THIS CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OPENINGS LEFT BY THE REMOVAL OF EQUIPMENT.
- I. ALL BRANCH CIRCUITS SHALL BE #12 THHN IN 3/4" EMT CONDUIT U.O.N.
- J. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PROJECT SCHEDULING AND TIMELINES.
- K. INSTALL ELECTRICAL SYSTEMS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, STATE CODES, INSPECTOR, LOCAL POWER COMPANY STANDARDS AND AS REQUIRED BY LOCAL FIRE DEPARTMENT.
- L. HVAC UNITS ARE GAS HEAT, ELECTRIC COOL.
- M. NOTE: PROVIDE MEANS FURNISH AND INSTALL.
- N. ALL ELECTRICAL WORK TO BE PERFORMED BY ELECTRICIAN LICENSED BY LOCAL AUTHORITY AND AS REQUIRED BY NATIONAL ELECTRICAL CODE.
- O. LABEL ALL CIRCUITS AND PANELS. PROVIDE ALL CALCULATIONS AS REQUIRED BY LOCAL UTILITY CO.
- P. VERIFY ALL POWER WIRING SIZE AND REQUIREMENTS FOR ALL PROJECT EQUIPMENT FURNISHED UNDER MAIN CONTRACT BY OTHERS, OR FURNISHED BY OWNER.
- Q. COORDINATE AND LOCATE ELECTRIC METER, PAD MOUNTED TRANSFORMER AND MAIN ELECTRIC SERVICE PANEL WITH OWNER AND AS REQUIRED BY LOCAL UTILITY CO. COORDINATE ALL PMT. LOCATIONS, SUBMITTALS, INSPECTIONS, ETC AS REQUIRED BY LOCAL POWER CO.
- R. COORDINATE AND PROVIDE ALL RELATED WORK FROM OTHER TRADES SUCH AS HVAC, PLUMBING, ELECTRIC POWER WIRING AND SYSTEMS CONTROL WIRING REQUIREMENTS. ETC.
- S. PROVIDE TEMPORARY ELECTRIC SERVICE FOR ALL TRADES DURING CONSTRUCTION UNTIL PERMANENT POWER IS ESTABLISHED.
- T. ELECTRICIAN TO LEAVE ALL LAMPS CLEAN, I.E. DIRT AND LABEL REMOVED AND ALL WITH LIGHT BULBS INSTALLED.
- U. PROVIDE ELECTRICAL GROUNDING FOR MAIN PANELS/SYSTEM AS PER NEC & UTILITY CO.
- V. COORDINATE EMERGENCY AND EXIT LIGHT FIXTURE LAYOUT WITH LOCAL CODE OFFICIAL, KENTUCKY BUILDING CODE AND NFPA/NEC REQUIREMENTS. PROVIDE ALL WITH 90 MINUTE BATTERY BACKUP.
- W. PROVIDE EXIT LITES, 110 VOLT WITH BATTERY BACK-UP, AND REMOTE HEADS AT ALL EXITS.
- X. ELEC. SUBCONTR. COORD. ALL MOUNTING HEIGHTS OF SWITCHES AND PLUGS WITH OWNER & MEET HANDICAP ACCESSIBILITY ADAAG REQUIREMENTS.
- Y. COORDINATE ALL PRESLAB REQUIREMENTS WITH GEN. CONTR. & SUBCONTRACTORS.

KEYED NOTES

- 1 SWITCH BANK SEE DETAIL ON THIS SHEET. COORDINATE W/OWNER REPRESENTATIVE.
- 2 WIRE WALL PACK THRU PHOTOCELL. EC TO PROVIDE "PARAGON" PHOTOCELL CW 201-00 MOUNTED ON ROOF FACING NORTH. MAKE ADJUSTMENT FOR ANY AMBIENT LIGHT.
- 3 ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, SEE DETAILS SHEET 8.7.
- 4 PROVIDE HARDWARE FOR INSTALLATION IN GYPSUM BOARD CEILINGS.
- 5 ALL LIGHT FIXTURES OVER FOOD SERVICE AREA TO BE PROVIDED WITH LENS.
- 6 J-BOX FOR PERIMETER LIGHTS. TYPICAL OF ALL PERIMETER LIGHTS. VERIFY POINT OF CONNECTION. WIRE VIA EXTERIOR LIGHTING CONTACTOR.

ELECTRICAL SHEET LEGEND

- Ⓛ DUPLEX RECEPTACLE, MOUNT @ 18" AFF TO CENTER.
- Ⓛ SINGLE RECEPTACLE, 240V, SINGLE PHASE AND/OR THREE PHASE MOUNT @ 18" AFF TO CENTER.
- Ⓛ QUAD RECEPTACLE, MOUNT @ 18" AFF TO CENTER.
- Ⓛ GFI DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER, MOUNT @ 18" AFF TO CENTER.
- Ⓛ CABLE TV OUTLET, MOUNT @ 18" AFF TO CENTER. PROVIDE PREMISE WIRING CONCEALED IN WALL.
- Ⓛ SMOKE/HEAT DETECTOR, CEILING MOUNT.
- Ⓛ ELECTRICAL DISCONNECT SWITCH
- Ⓛ WALL SWITCH
- Ⓛ 3-WAY WALL SWITCH
- Ⓛ MOTOR STARTER SWITCH W/PILOT LIGHT
- Ⓛ ELECTRICAL JUNCTION BOX
- Ⓛ CEILING MOUNTED DUPLEX RECEPTACLE, GFI PROTECTED
- Ⓛ CAT 6 DATA CABLE, 2 PORT DATA AND VOIP

REVISIONS:

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

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378 PARK AVENUE, LEXINGTON, KY 40502 (859) 254-4200

NOV 24 2021

Charles William Pope & Associates
ARCHITECTURE, PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER: **8.2**

CODED SHEET NOTES: □

- 1 CONDUITS, WIRES AND RECEPTABLES PROVIDED IN EQUIPMENT BY EQUIPMENT MANUFACTURER AND TERMINATED AT J-BOX PROVIDED INSIDE OF EQUIPMENT.
- 2 ELECTRICAL CONTRACTOR TO RUN CONDUITS AND WIRE THRU EQUIPMENT CHASE AND CONNECT TO CIRCUITS PROVIDED IN J-BOX BY EQUIPMENT MANUF.
- 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, PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 6 G.C. TO VERIFY ELECTRICAL REQUIREMENTS FOR FIRE SUPPRESSION SYSTEM AND AUTO-SOLENOID GAS SHUT-OFF VALVE.
- 7 RUN 2" CONDUIT TO MANAGERS OFFICE FOR CABLE TV.
- 8 HEAT TAPE IS PROVIDED BY WALK-IN BOX MANUFACTURER AND INSTALLED BY ELECTRICAL CONTRACTOR. CONTRACTOR SHALL COORDINATE INSTALLATION AND SUPPLY 120V CIRCUIT AND RECEPTACLE AS DIRECTED BY BOX MANUFACTURER.
- 9 JUNCTION BOX FOR LIGHTED DISPLAY SIGN. HEIGHT 72" ±, VERIFY WITH MANUFACTURER.
- 10 STAINLESS STEEL SERVICE CHASE TO CEILING FURNISHED BY EQUIPMENT MANUFACTURER.
- 11 CONTRACTOR SHALL OBTAIN WIRING DIAGRAM FROM W.I.B. MANUFACTURER AND INSTALL AS DIRECTED.
- 12 CONTRACTOR SHALL COORDINATE EQUIPMENT INSTALLATION WITH EQUIPMENT MANUFACTURER'S INSTALLATION PERSONNEL.
- 13 PRE-WIRED BRANCH CIRCUITS DISCONNECTED FOR SHIPMENT TO BE RE-CONNECTED BY MANUFACTURER'S INSTALLATION PERSONNEL ON SITE.
- 14 ELECTRICAL CONTRACTOR TO PROVIDE CORD WITH PLUG AND WIRE TO STANDARD BROILER. WHEN USING NICO 9025 OR MARSHALL 2001 "FLEX" BROILER, PROVIDE 8 GA., 5 WIRE CORD AND TWIST PLUG. BROILER CONNECTION TO BE PROVIDED ABOVE CEILING, NEXT TO HOOD.
- 15 CONTRACTOR SHALL COORDINATE CONDUIT RUN BETWEEN FREEZER/COOLER EVAPORATORS, AND ROOFTOP REFRIGERATION UNIT WITH MANUFACTURER'S FURNISHED WIRING HARNESS.
- 16 ELECTRICAL CONTRACTOR TO PROVIDE JUNCTION BOXES INSIDE WALL @ 48" A.F.F. WITH STUD-UPS TO CEILING FOR AMEREX PULL SYSTEM AS REQUIRED BY EQUIPMENT SUPPLIER.
- 17 SMOKE DETECTOR ALARM PANEL, REFER TO MECHANICAL SHEETS FOR LOCATION OF A/C UNITS WITH SMOKE DETECTORS.
- 18 PROVIDE (1) 2" UNDERGROUND CONDUIT FOR POWER AND (1) 2" UNDERGROUND CONDUIT FOR DATA TO DRIVE THRU J-BOXES. COORDINATE EXACT LOCATION WITH OWNER. PRIOR TO TRENCHING, REFER TO ELECTRICAL SITE PLAN 2.2.2 AND ARCHITECTURAL SHEET 2.10 FOR ADDITIONAL REQUIREMENTS.
- 19 6" BELOW CEILING FOR CONDENSATE DRAIN LINE TAPE HEATER.
- 20 TO MASTER RELAY PANEL. SEE SHEET 8.7.
- 21 MANUAL ON/OFF CONTROL PANEL - REFERENCE SHEET 8.7.
- 22 MASTER CONTRACTOR PANEL - REFERENCE SHEET 8.7 AND NOTE #23 BELOW.
- 23 OPTION #1: RECESS ELECTRICAL CONTRACTOR 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.
OPTION #2: HILL PHOENIX INTEGRATED WALL UNIT INCLUDES PANELS 'A', 'B', 'M' AND MASTER CONTRACTOR PANEL IN ONE CABINET. UNIT TO BE SURFACE MOUNTED ON 4" HIGH CONCRETE CURB. REFERENCE SHEET 8.7 FOR ADDITIONAL INFORMATION.
- 24 PROVIDE VISUAL STROBE ALARM MOUNTED AT 80" A.F.F. TIE TO H.V.A.C. SMOKE ALARM SYSTEM.
- 25 ROUTE CONDUITS UP WALL TO 6" ABOVE CEILING. REFER TO SHEET 2.2.2 FOR ADDITIONAL REQUIREMENTS.
- 26 PROVIDE 1/2" FLEX CONDUIT FROM J-BOX ABOVE CEILING TO ELECTRICAL BOX IN KIOSK CHASSIS FOR POWER. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.
- 27 PROVIDE 1/2" FLEX CONDUIT FROM J-BOX ABOVE CEILING TO KIOSK CHASSIS FOR DATA. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH OWNER.
- 28 PROVIDE REMOTE CO2 STORAGE SAFETY ALARM SYSTEM, MODEL #Y78-CO2MNR. COORDINATE WITH CO2 VENDOR FOR INSTALLATION.
- 29 PROVIDE POWER FOR WALL SIGN. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- 30 ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CORD WITH PLUG AND WIRE (WHIP)

GENERAL NOTES

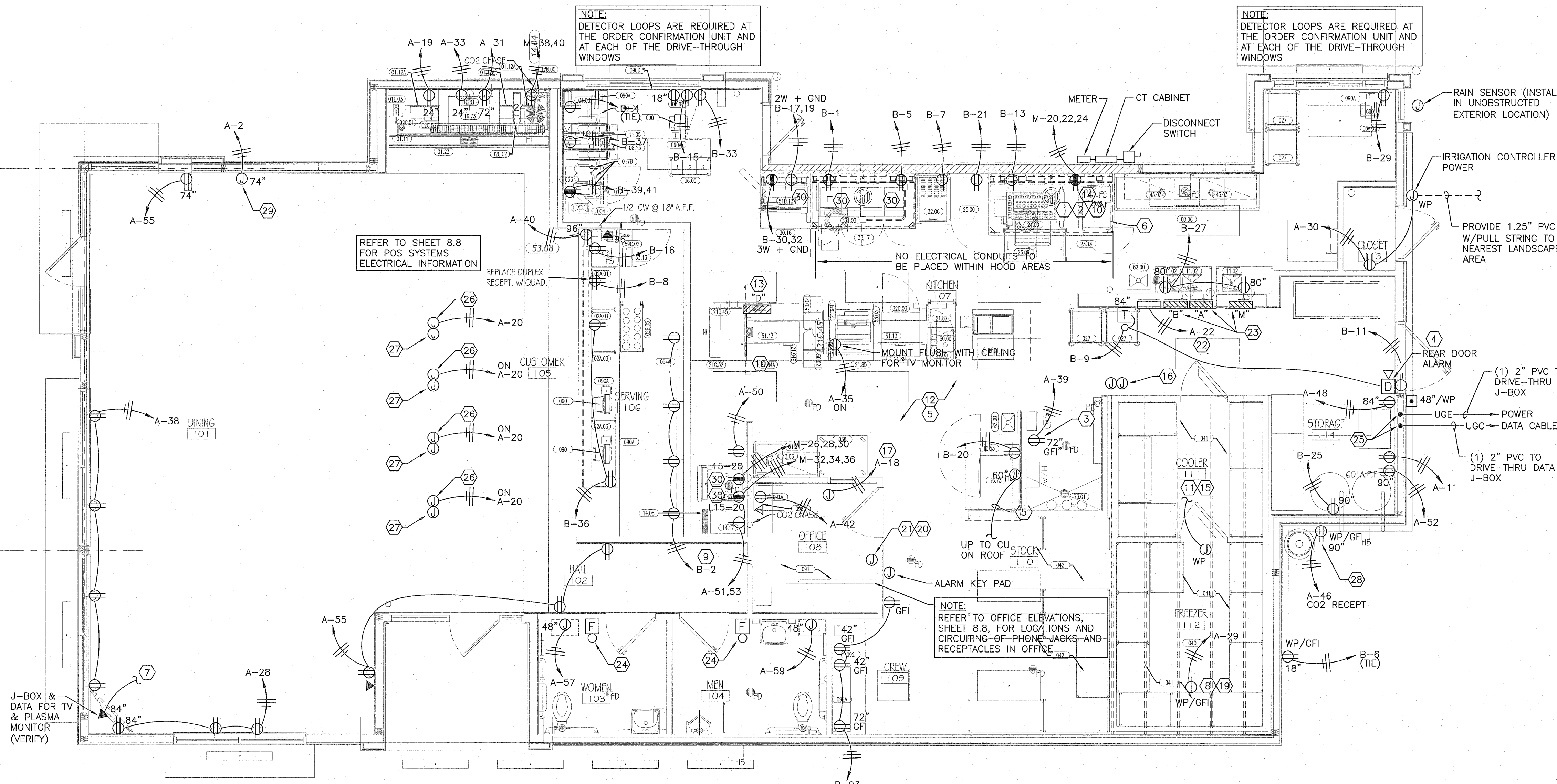
- A. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES AND STANDARDS.
- B. ALL DEVICE BOXES SHALL BE INSTALLED FLUSH AND CONDUITS RUN CONCEALED IN FINISHED AREAS EXCEPT AS SPECIFICALLY SHOWN/NOTED OTHERWISE.
- C. INSTALL POWER AND CONTROL WIRING AND REQUIRED 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 THIN/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, UNON PLANS.
- H. ALL MATERIALS SHALL BE UL APPROVED.
- I. ALL BRANCH CIRCUITS, EXCEPT INTERIOR LIGHTING, EXTERIOR BUILDING SIGNS, PARAPET LIGHTING AND SOFT/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. AN EQUIPMENT GROUND CONDUCTOR (GREEN) SHALL BE RUN IN ALL 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".

KITCHEN EQUIPMENT NOTES:

- A. EC TO PROVIDE AND INSTALL RECEPTABLES, 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 MANUFACTURER'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 RECEPTABLES 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 RECEPTABLES REQUIRED FOR SPECIFIC KITCHEN EQUIPMENT. REFER TO THE ARCHITECTS/ENGINEERS ELECTRICAL DRAWINGS FOR LOCATIONS OF UTILITY AND GENERAL PURPOSE RECEPTABLES.
- 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 SHEET LEGEND

- DUPLEX RECEPTACLE, MOUNT @ 18" AFF TO CENTER.
- SINGLE RECEPTACLE, 240V, SINGLE PHASE AND/OR THREE PHASE MOUNT @ 18" AFF TO CENTER.
- QUAD RECEPTACLE, MOUNT @ 18" AFF TO CENTER.
- GFI DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER, MOUNT @ 18" AFF
- CABLE TV OUTLET, MOUNT @ 18" AFF TO CENTER. PROVIDE PREMISE WIRING CONCEALED IN WALL.
- SMOKE/HEAT DETECTOR, CEILING MOUNT.
- ELECTRICAL DISCONNECT SWITCH
- WALL SWITCH
- 3-WAY WALL SWITCH
- MOTOR STARTER SWITCH W/PILOT LIGHT
- ELECTRICAL JUNCTION BOX
- CEILING MOUNTED DUPLEX RECEPTACLE, GFI PROTECTED
- CAT 6 DATA CABLE, 2 PORT DATA AND VOIP



A POWER FLOOR PLAN
8.3 SCALE: 1/4" = 1'-0"

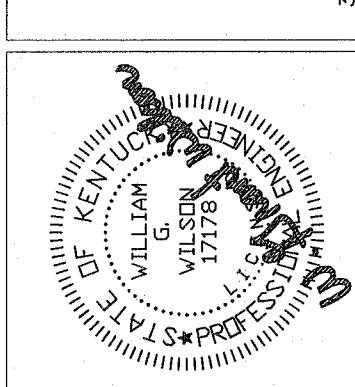
REVISIONS:

POWER FLOOR PLAN

BURGER KING
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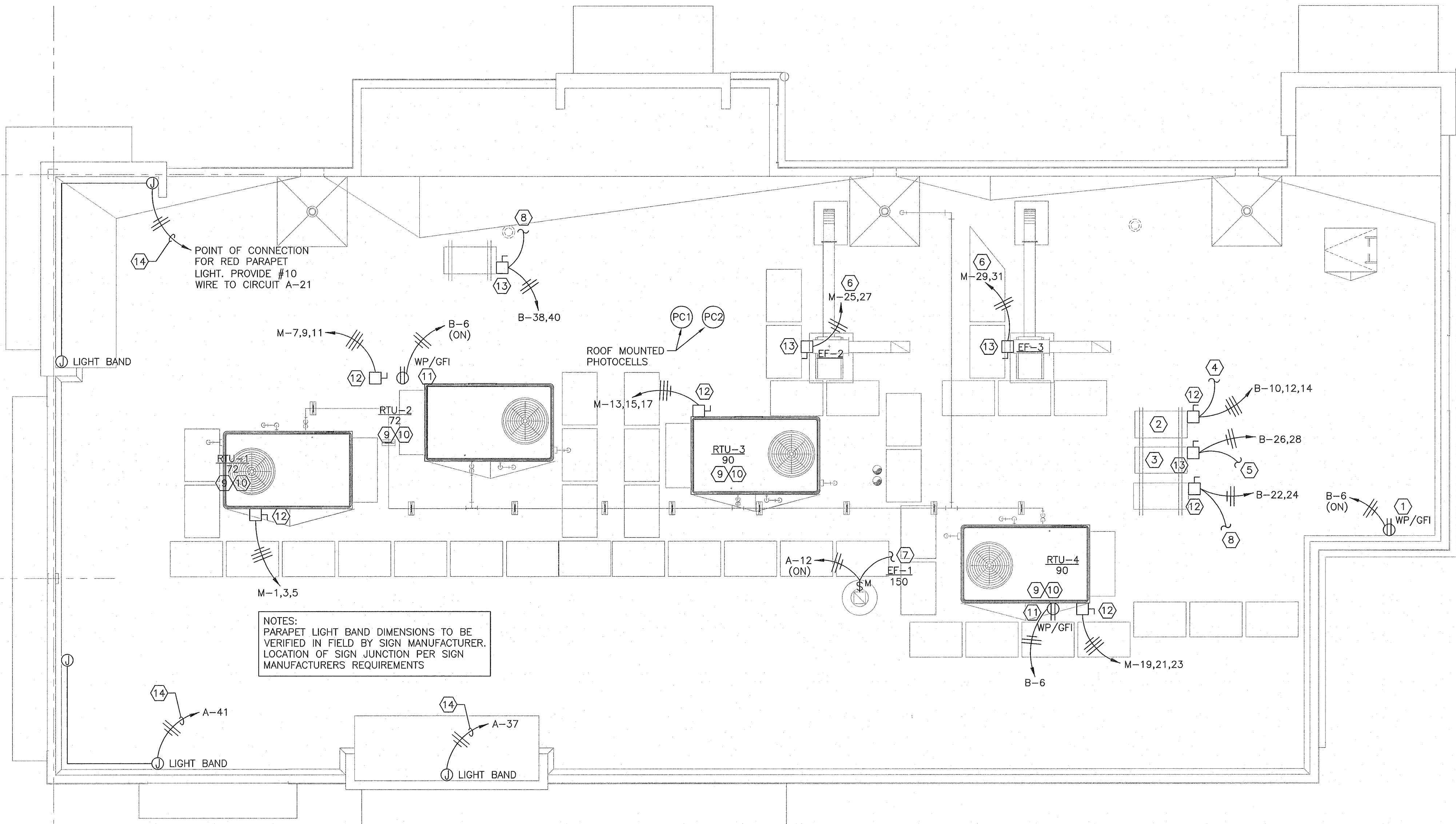
NOV-24-2021

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DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

8.3

OF



A ELECTRICAL ROOF PLAN
8.4 SCALE: 1/4" = 1'-0"

GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES AND STANDARDS.
- ALL DEVICE BOXES SHALL BE INSTALLED FLUSH AND CONDUITS RUN CONCEALED IN FINISHED AREAS EXCEPT AS SPECIFICALLY SHOWN/NOTED OTHERWISE.
- 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.
- WIRE SIZE SHALL BE #12 (MINIMUM) UNLESS OTHERWISE NOTED. WIRE SIZES SMALLER THAN #6 AWG SHALL BE THIN/THIN. #6 AWG WIRE AND LARGER SHALL BE THW, UNLESS NOTED OTHERWISE.
- WIRE (CONDUCTOR) COLORS SHALL BE AS PER APPLICABLE CODES.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL CONDUCTORS SHALL BE RUN IN CONDUIT, EXCEPT LOW VOLTAGE CONTROL AND COMMUNICATIONS CABLES, UON ON PLANS.
- ALL MATERIALS SHALL BE UL APPROVED.
- 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.
- PVC (SCHEDULE 40) PERMITTED BELOW SLAB AND BELOW GRADE ONLY.
- AN EQUIPMENT GROUND CONDUCTOR (GREEN) SHALL BE RUN IN ALL POWER CIRCUIT CONDUITS WHETHER OR NOT THE CONDUIT IS PVC.
- ALL EMPTY CONDUITS TO BE PROVIDED WITH NYLON PULL STRING.
- NEW TYPEWRITTEN PANEL DIRECTORY SHALL BE FURNISHED AFTER JOB IS COMPLETED REFLECTING ALL AS BUILT CONDITIONS.
- ALL BRANCH CIRCUITS SHALL BE PROPERLY PHASE BALANCED.
- 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.
- FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE UNLESS OTHERWISE NOTED.
- EC SHALL VERIFY INTERIOR DECOR THEME TO BE USED AND COORDINATE WITH SAID THEME.
- EC SHALL INSTALL AND CONNECT WIRING TO ALL SIGNS.
- EC TO COORDINATED ROUGHING-IN TO ALL EQUIPMENT WITH EQUIPMENT SUPPLIER PRIOR TO INSTALLING CONDUITS.
- ALL CONDUIT RUNS TO KITCHEN EQUIPMENT SHALL BE RUN ABOVE CEILING.
- MAINTAIN 12" CLEARANCE BETWEEN P.O.S. COMMUNICATION CONDUITS AND LIGHTING FIXTURES AS WELL AS POWER CONDUITS.
- 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".

KITCHEN EQUIPMENT NOTES:

- EC TO PROVIDE AND INSTALL RECEPTACLES, CAPS AND CORDS AS REQUIRED. CAPS AND CORDS ARE TO BE INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- EC TO CONNECT ELECTRICAL SERVICE DIRECTLY TO EQUIPMENT ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
- EC TO RECONNECT ELECTRICAL CIRCUITS ON PRE-WIRED EQUIPMENT DISASSEMBLED FOR SHIPMENT.
- WHERE EQUIPMENT IS NOT PRE-WIRED, EC TO CONNECT THE ELECTRICAL SERVICE AND PROVIDE INTER-WIRING AS REQUIRED.
- 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.
- 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.
- EC TO VERIFY THE UTILITY REQUIREMENTS FOR ITEMS NOT PROVIDED BY THE KITCHEN EQUIPMENT SUPPLIER.
- ALL PORTIONS OF WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND NATIONAL CODES, ORDINANCES AND STANDARDS.
- NOTIFY THE KITCHEN EQUIPMENT SUPPLIER PROJECT MANAGER IMMEDIATELY OF COMPLIANCE WITH A LOCAL, STATE OR NATIONAL CODE IS IN CONFLICT WITH THESE DRAWINGS.

CODED SHEET NOTES

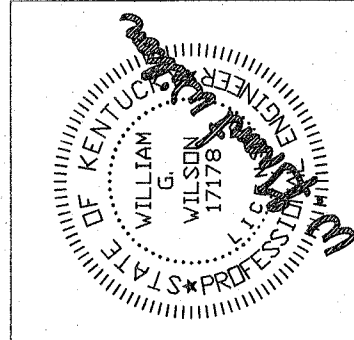
- OPTIONAL WEATHERPROOF OUTLET 30" AFR FOR TV VIDEO CAMERA. RUN CONDUIT TO BLDG. INTERIOR, VERIFY SIZE AND LOCATION WITH OWNER.
- REMOTE FREEZER COMPRESSOR CONDENSING UNIT.
- REMOTE COOLER COMPRESSOR CONDENSING UNIT.
- TO FREEZER EVAPORATOR.
- TO COOLER EVAPORATOR.
- STUB-UP CONDUIT AND ADJACENT TO ROOF CURB AND PROVIDE SEAL TIGHT CONNECTION TO DISCONNECT WITH SUFFICIENT SLACK TO ALLOW REMOVAL OF FAN FOR SERVICING.
- FOR CONTINUATION, SEE LIGHTING PLAN, SHEET 8.1.
- DOWN TO ICE MACHINE.
- SEE ELECTRICAL RISER SHEET 8.5 FOR ELECTRICAL REQUIREMENTS TO MECHANICAL EQUIPMENT.
- RUN CONTROL WIRES VIA MASTER RELAY CONTROL PANEL, SEE SHEET 8.7.
- 120V/1Ø WATER PROOF, GFI RECEPTACLE BY ELECTRICAL CONTRACTOR.
- PROVIDE 60A/3P/NF/NEMA 3R DISCONNECT SWITCH AND FIELD COORDINATE EXACT PLACEMENT.
- PROVIDE 30A/2P/NF/NEMA 3R DISCONNECT SWITCH AND FIELD COORDINATE EXACT PLACEMENT.
- ROUTE CIRCUIT THROUGH LIGHTING CONTACTOR, SEE DETAILS SHEET 8.7. PROVIDE WHIPS & FINAL CONNECTIONS AS REQUIRED.

REVISIONS:

ELECTRICAL ROOF PLAN

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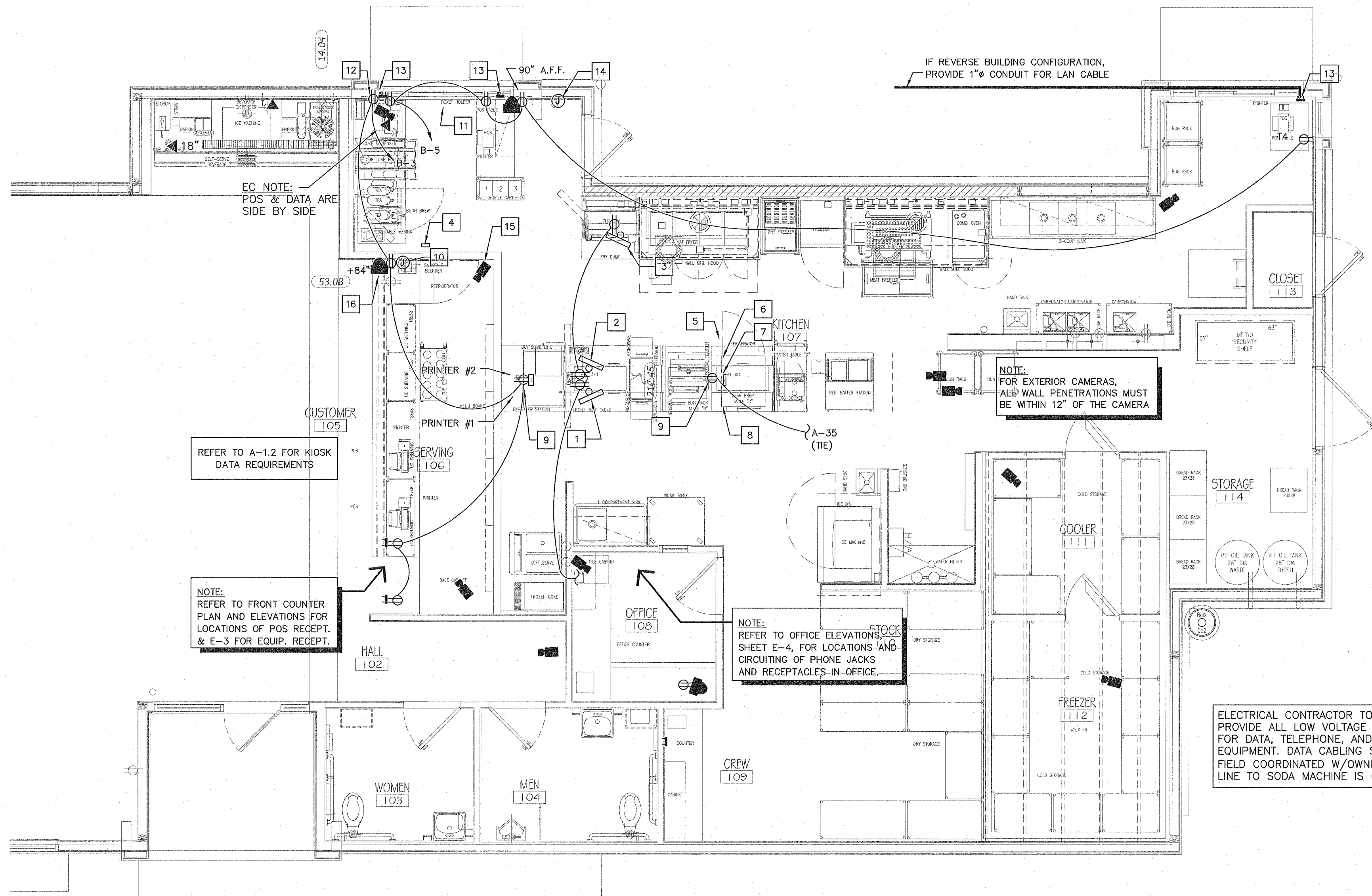
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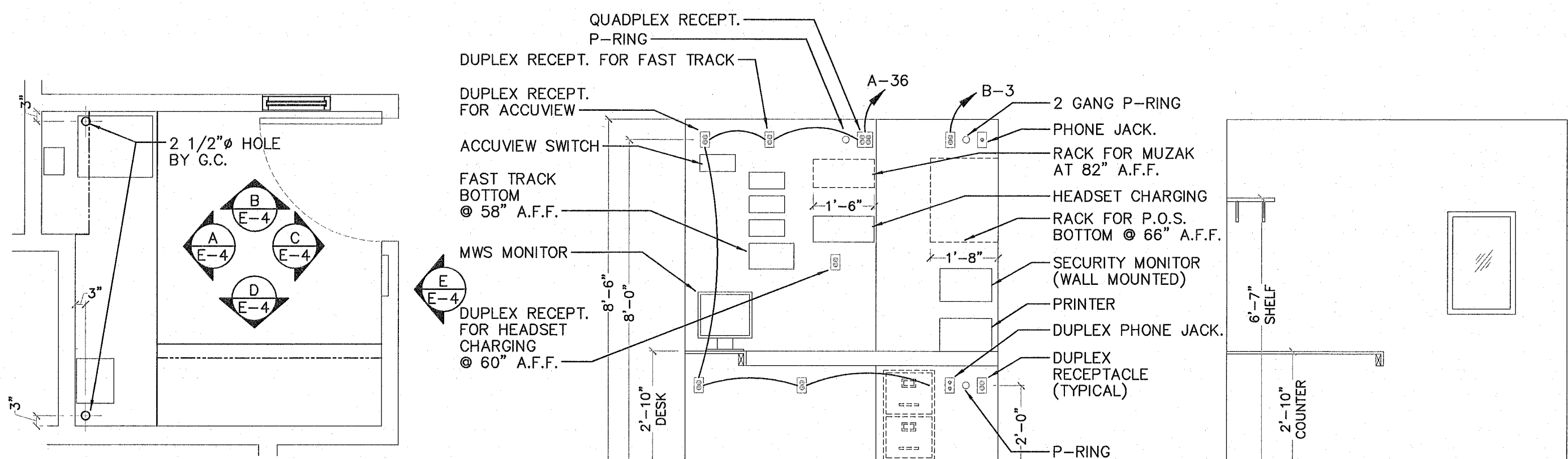
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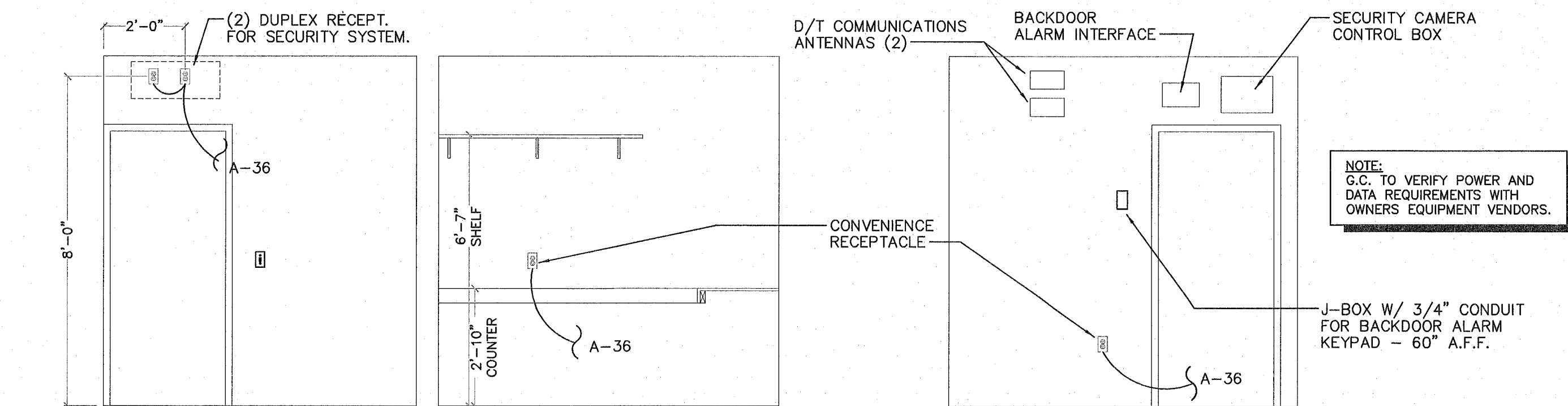
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A POS PLAN
8.5 SCALE: 1/4" = 1'-0"



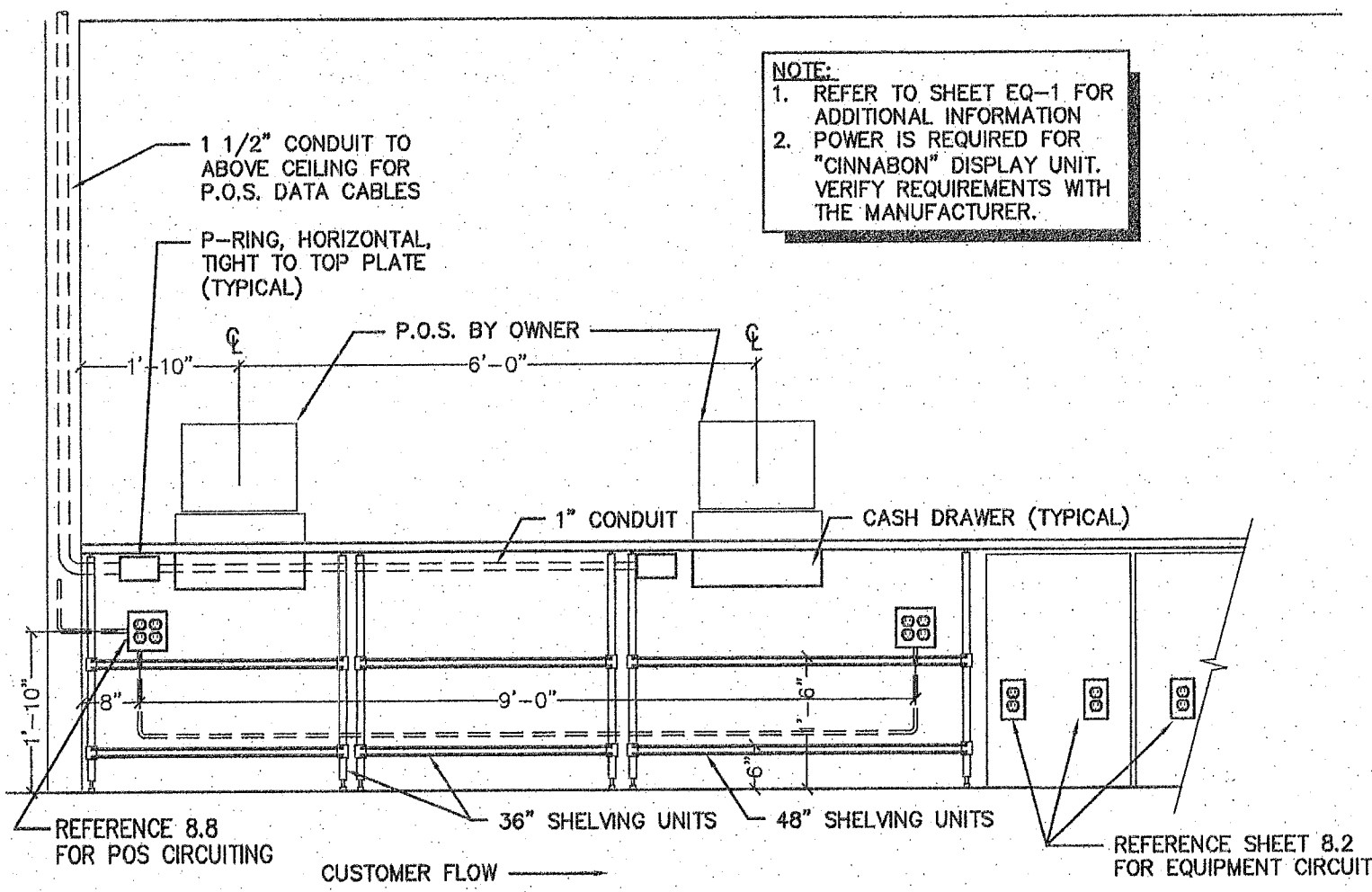
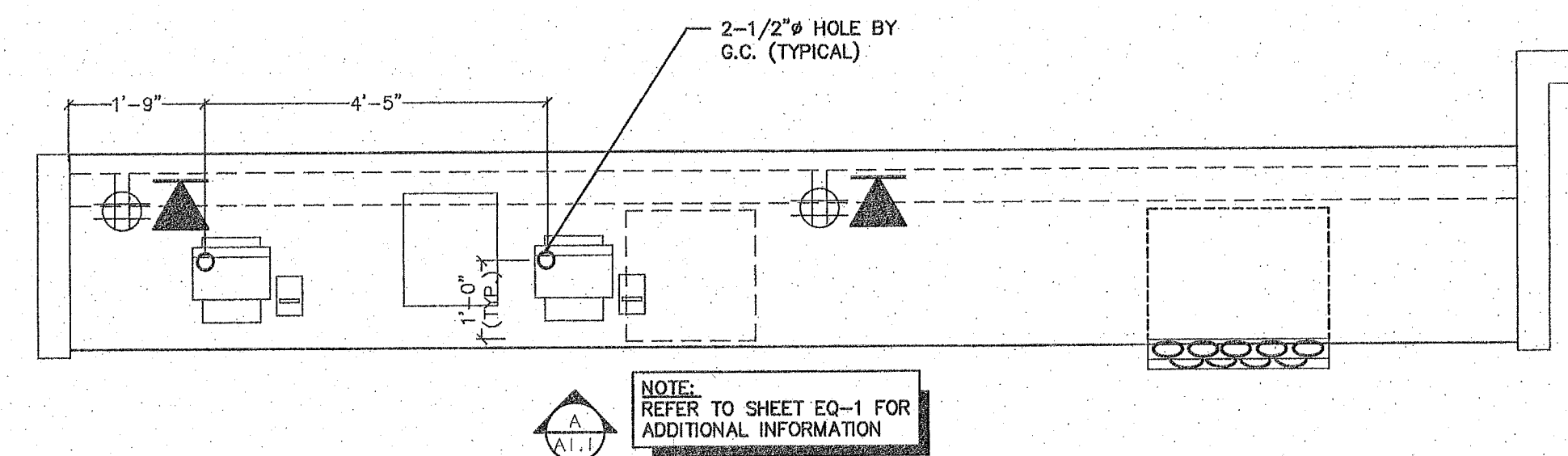
C OFFICE PLAN
8.5 SCALE: 3/8" = 1'-0"



F ELEVATIONS
8.5 SCALE: 3/8" = 1'-0"

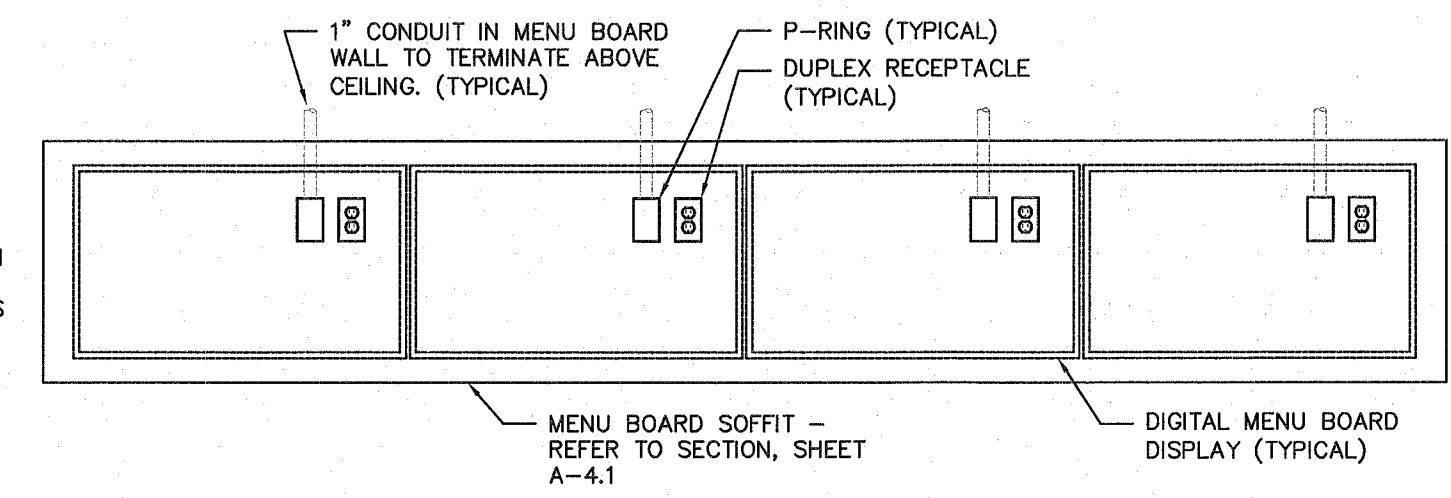
G ELEVATION
8.5 SCALE: 3/8" = 1'-0"

H SERVICE COUNTER PLAN
8.5 SCALE: 1/2" = 1'-0"

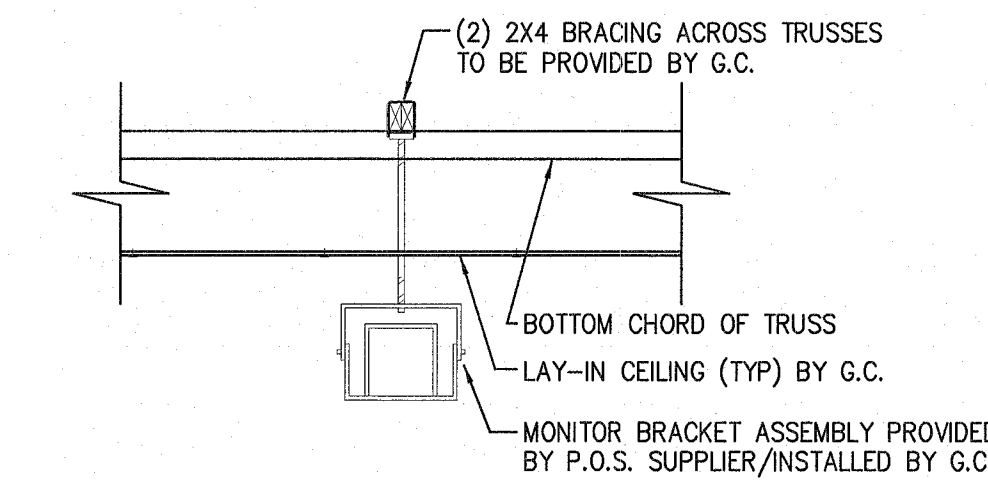


I KITCHEN SIDE COUNTER ELEVATION
8.5 SCALE: 1/2" = 1'-0"

- NOTES:**
- (1) DUPLEX RECEPTACLE PER SCREEN
 - (1) P-RING PER SCREEN WITH 1" CONDUIT TO ABOVE CEILING. DATA CABLE TO RUN TO MEDIA PLAYER(S) IN OFFICE
 - VERIFY NUMBER OF SCREENS USED (3 OR 4) PRIOR TO INSTALLATION OF RECEPTABLES AND P-RINGS.
 - DETERMINE SCREEN AND MOUNTING BRACKET MODELS PRIOR TO INSTALLATION OF RECEPTABLES AND P-RINGS. REFER TO SHEET E-2, POWER PLAN FOR CIRCUITING REQUIREMENTS.



A DIGITAL MENU BOARD INSTALLATION
8.5 SCALE: 1/2" = 1'-0"



B VIDEO HANGING BRACKET
8.5 SCALE: N.T.S.

GENERAL NOTES:

- 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.
- CONTRACTOR TO PROVIDE ALL RECEPTACLE OUTLETS, CONDUITS AND J-BOXES AS INDICATED ON PLAN.
- CONTRACTOR TO VERIFY AND COORDINATE LOCATION OF VIDEO DISPLAY DEVICES W/ BURGER KING REPRESENTATIVE.
- MAINTAIN P.O.S. CABLES A MIN. OF 12" AWAY FROM ANY FLUORESCENT LIGHT SOURCES ABOVE CEILING.
- ELECTRICAL CONTRACTOR TO IDENTIFY P.O.S. JUNCTION BOXES ABOVE CEILING "GROUND P.O.S. ONLY".

KEYED PLAN NOTES:

- DISPLAY #1 AND BUMP BAR. PROVIDE 4" CONDUIT FOR VIDEO, BUMP BAR AND PRINTERS. PROVIDE CEILING MOUNTED RECEPTABLES. (TYPICAL FOR DISPLAY #1, #2 AND #3)
- DISPLAY #2 AND BUMP BAR
- DISPLAY #3 AND BUMP BAR
- STOCK LEVEL LIGHT CONTROLLER @ 60" A.F.F.
- TOTAL SERVICE TIME DISPLAY
- GRADE DISPLAY
- CLOCK-RECEPT. IN CHASE
- STOCK LEVEL DISPLAY RECEPT. IN CHASE
- EQUIPMENT MOUNTED RECEPTABLES BY K.E.S. CIRCUITING RUNS BY E.C.
- J-BOX W/ 3/4" CONDUIT @ 84" A.F.F.
- CEILING MOUNTED D/T TIMER WINDOW TIME DISPLAY
- 90" A.F.F. FOR D/T LAND MONITOR.
- P-RING @ 24" A.F.F. W/ 1" CONDUIT TO ABOVE CLG. (LOCATE NEXT TO PHU RECEPT.)
- J-BOX W/ 1" CONDUIT TO CLG. FOR PHU DATA CABLE.
- SECURITY CAMERA (TYPICAL)
- 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
	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

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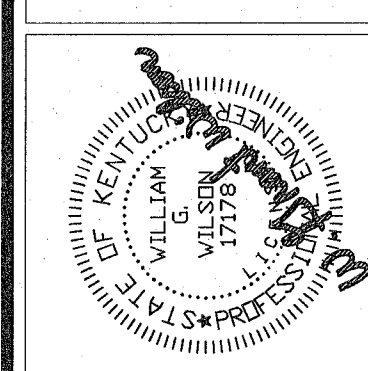
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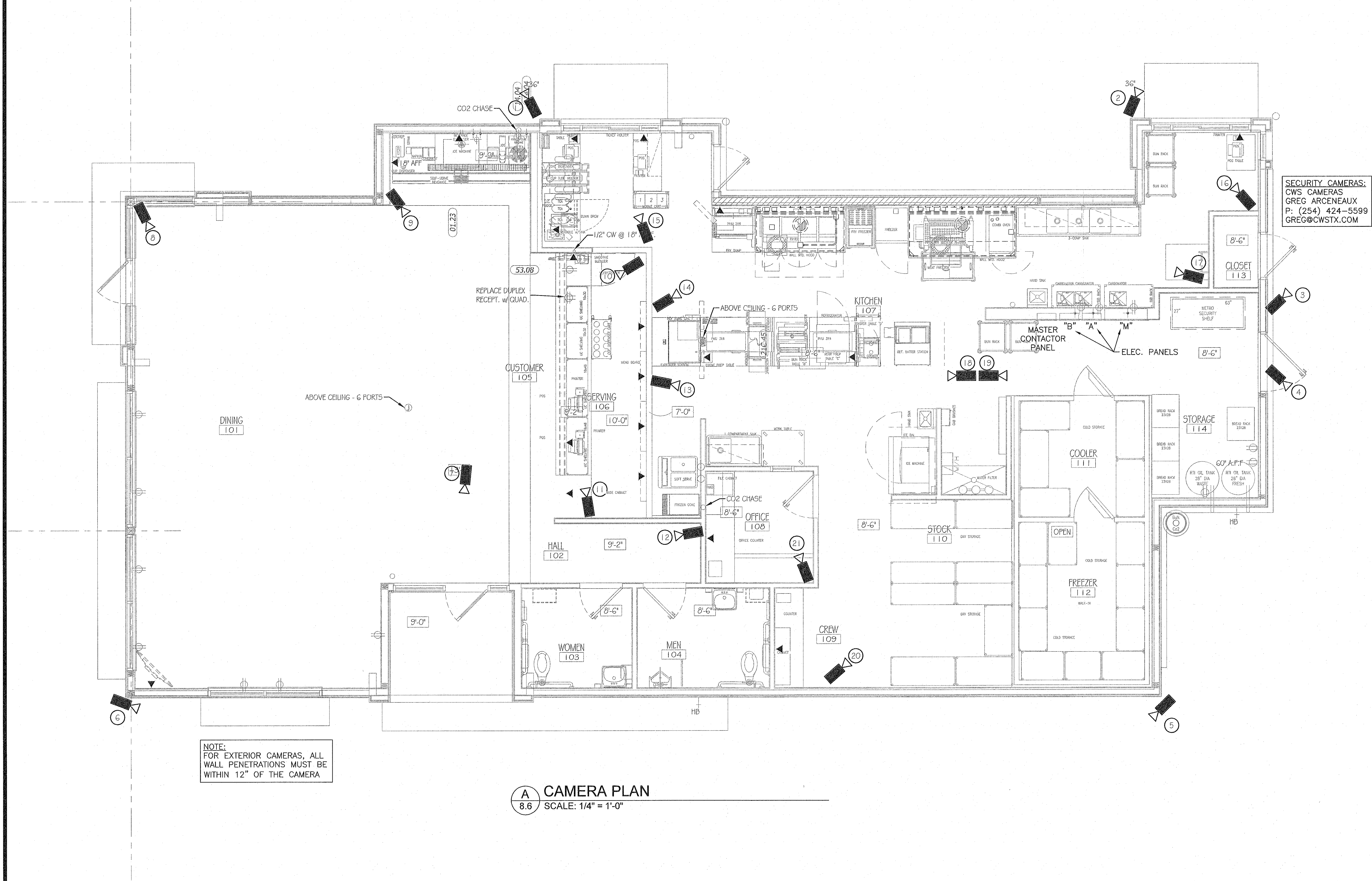
POS PLAN

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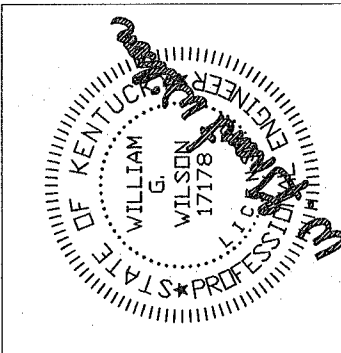
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CAMERA PLAN
BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

REVISIONS:

OUTDOOR LIGHT FIXTURE SCHEDULE							
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	IES DISTRIBUTION	LAMP DATA	VOLTAGE	NOTES
OLF-1	CUTOFF SHOEBOX POLE LIGHT	LITHONIA	RSXF2-LED-P6-50K-AWFD-MVOLT-SIZE2	TYPE AWF	30,000 LUMEN LED @ 50K, 247 WATTS	208V	1,2,3,4,5
OLF-2	CUTOFF SHOEBOX POLE LIGHT	LITHONIA	RSXF2-LED-P6-50K-NFL-MVOLT-SIZE2	TYPE NFL	30,000 LUMEN LED @ 50K, 247 WATTS	208V	1,2,3,4,5
OLF-3	LED WALLPACK	LITHONIA	WPX1-LED-P2-50K-MVOLT	CUTOFF	2,900 LUMEN LED @ 50K, 25 WATTS	120V	1,2
NOTES: 1. SUPPLY LAMP WITH FIXTURE. 2. FINISH SHALL BE SELECTED BY ARCHITECT. 3. PROVIDE MANUFACTURER'S FIELD INSTALLED, FUSING KIT. 4. PROVIDE POLE AND ANCHOR BOLT POLE BASE. SEE POLE SCHEDULE. 5. PROVIDE MANUFACTURER'S 9" SIDE ARM MOUNTING OF LIGHT FIXTURE. FINISH TO MATCH.							

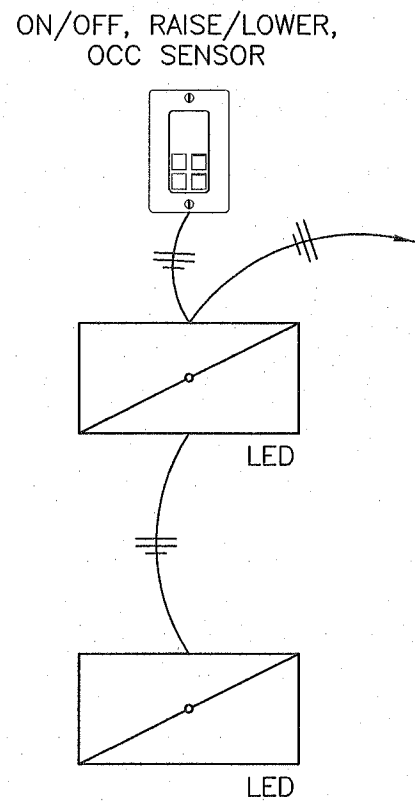
POLE SCHEDULE					
MARK	DESCRIPTION	MANUFACTURER	MODEL NUMBER	POLE DIAMETER	NOTES
P25	25'-0" ROUND STRAIGHT SQUARE ALUMINUM	LITHONIA	RSA-25-6E-DMXX-FBC-DDB	6x4 (10"Ø)	1,2,3,4
NOTES: 1. FINISH SHALL BE SELECTED BY ARCHITECT. TOP OF POLE SHALL BE CAPPED. 2. POLE TO WITHSTAND 100MPH WIND WITH 1.3 GUST FACTOR. 3. POLE BASE TO HAVE MANUFACTURER'S BASE COVER, COLOR TO MATCH POLE. 4. PROVIDE SIDE ARM MOUNT, COLOR TO MATCH POLE. FOR DOUBLE HEADS, PROVIDE TWO SIDE ARM MOUNTS, EITHER 180 DEGREES OR 90 DEGREES APART AS SHOWN ON SITE UTILITIES PLAN.					

LIGHT FIXTURE SCHEDULE								
TYPE	SYMBOL	MANUFACTURER	MODEL NUMBER	VOLTS	QUA.-LAMP	MOUNTING	WATTS	REMARKS
L1A		NAUTICAL	BK304 & SP30S-18-60D-927-03	120	LED	STEM	10W	PENDANT
L1B		NAUTICAL	BK305 & LED 8W EDISON	120	1600 LUMEN LED @ 30K		8W	BRONZE CAGE PENDANT
C1		JUNO	SP36671-WHTRM	120	LED	RECESSED		
C6W		JUNO	SP34505-930-6-WWH	120	LED	RECESSED	11W	6" DIA RECESSED WHITE
D1		JUNO	SP36671G2/39WWH	120	LED			
EM		LSI	LTEM-WH	120	LED	SURFACE	10W	EMERGENCY LIGHTING UNIT W/ 90 MIN. EMERGENCY OPERATION
EMX		LSI	LPRX-R-U-WH-LD11-RL	120	LED	SURFACE	5	COMBO EMERGENCY LIGHT & EXIT SIGN. 90 MIN EMERGENCY OPERATION, HIGH OUTPUT FOR REMOTE HEADS
EMZ		LITHONIA	AFN-CBA-EXT	9.6V	LED	SURFACE	3W	WET LOCATION, REMOTE EMERGENCY FIXTURE
G		JUNO	BK-GG-G-10LM-2"/SP34378G2B-10LM-930FISN	120	LED		10W	
G1		JUNO	BK-GG-G-10LM-2"/SP34378G2A-10LM-930FISN	120	LED		10W	
I		LITHONIA	EPANL-2x4-6000LM-80CRI-40K-MIN10-ZT-MVOLT-NSF	120	LED-6000 LUMENS @ 40K	LAY-IN	50W	2'x4' LED LIGHT PANEL SEALED UNIT
IX		LITHONIA	EPANL-2x4-6000LM-80CRI-40K-MIN10-ZT-MVOLT-NSF-E10WCP	120	LED-6000 LUMENS @ 40K	LAY-IN	50W	2'x4' LED LIGHT PANEL SEALED UNIT WITH 90 MIN EMERGENCY OPERATION
K		LSI	XSL2-S-LED-50-CW-120-WHT-CMT	120	LED	RECESSED	30W	SOFFIT LIGHT
L		LSI	XPWS3-FT-LED-48-450-CW-UE-MSV	120	LED		40W	
M		KONTECH	KON-DVP-182-14-JY	120	LED		36W	AWNINGS
N		LSI	SWM-2-LED-CW-UE-GBZ	120	LED	WALL	42W	SECURITY LIGHT
WIB		LSI	EG3-4-LED-6L-DA-S-UNV-DIM-50K-80CRI	120	6600 LUMEN LED @ 30K	SURFACE	48W	4' ENCLOSED & GASKETED LINEAR LED

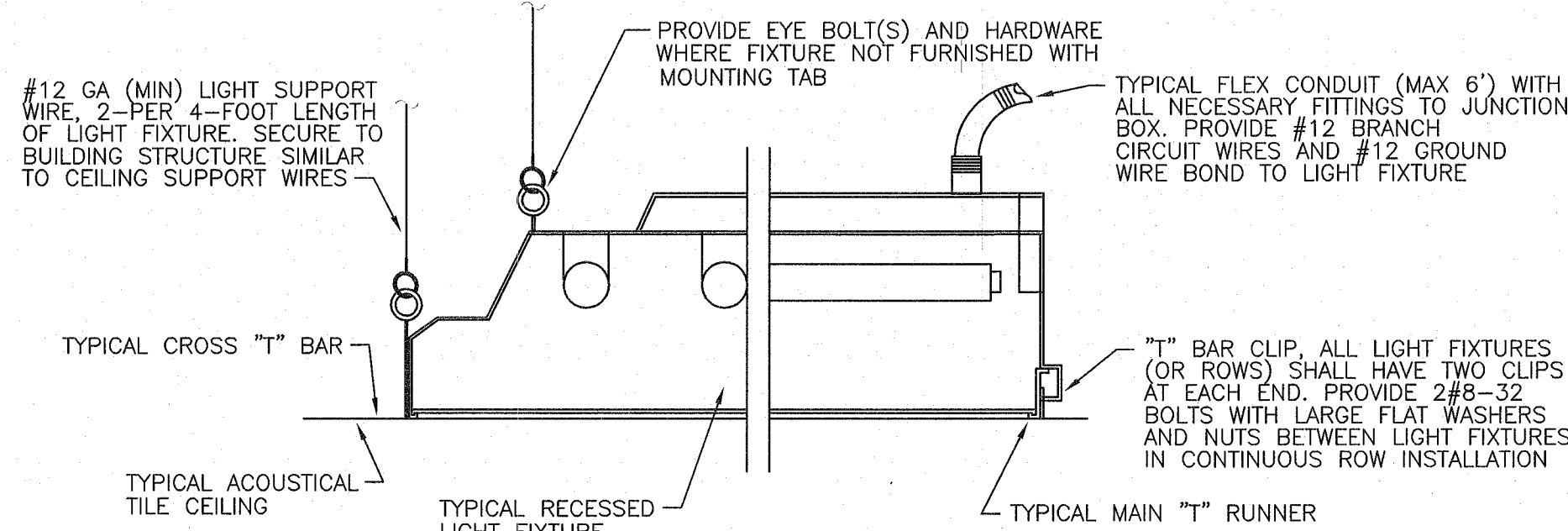
NOTE: E.C. TO PROVIDE LAMPS FOR ALL FIXTURES. EMERGENCY LAMPS SHALL NOT OPERATE AS A NIGHT LIGHT UNLESS SO NOTED ON PLANS. EMERGENCY BATTERY PACK SHALL BE WIRED WITH AN UNSWITCHED HOT LEG. ALL SHALL BE 3000K, (CRI 80+), IN ALL FIXTURES UNLESS OTHERWISE NOTED.

NOTE: ALL CEILING MOUNTED DEVICES SHALL BE CENTERED IN THE CEILING GRID.

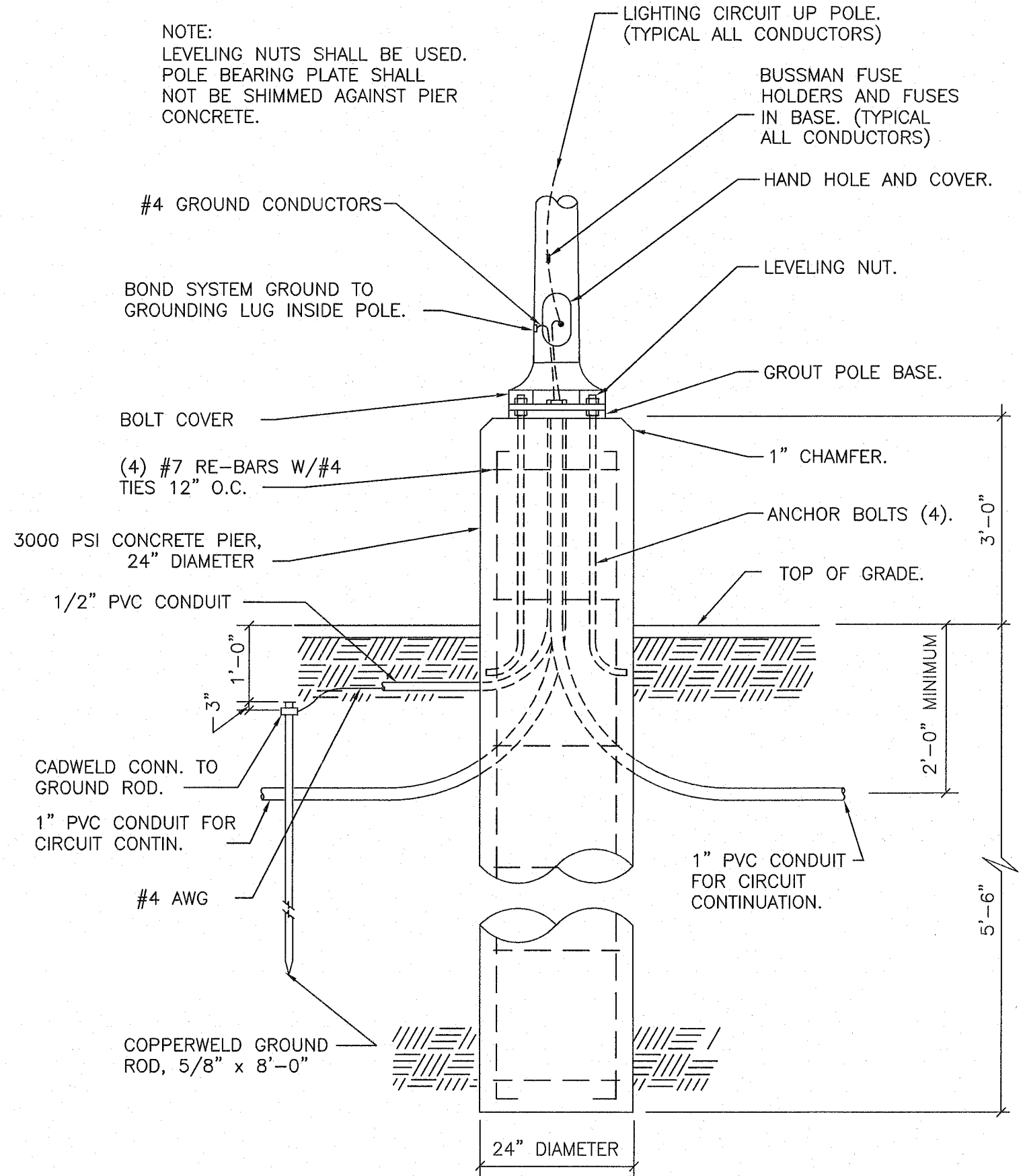
NOTE: SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



2
TYPICAL OFFICE LINE CONTROL W/VACANCY
N.T.S.



1
RECESSED LIGHTING DETAIL
N.T.S.



3
POLE BASE "P25" DETAIL
N.T.S.

REVISIONS:

ELECTRICAL SCHEDULES & DETAILS

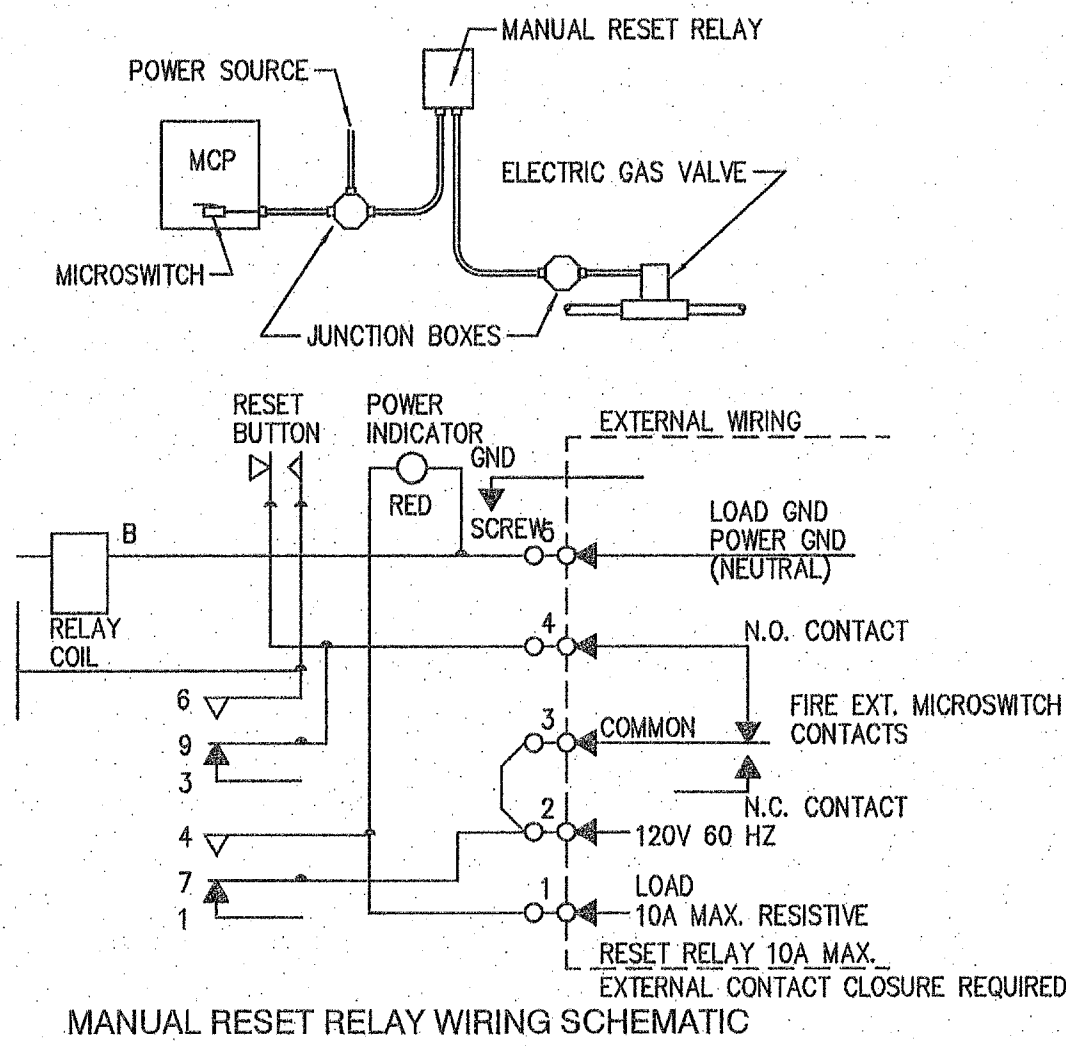
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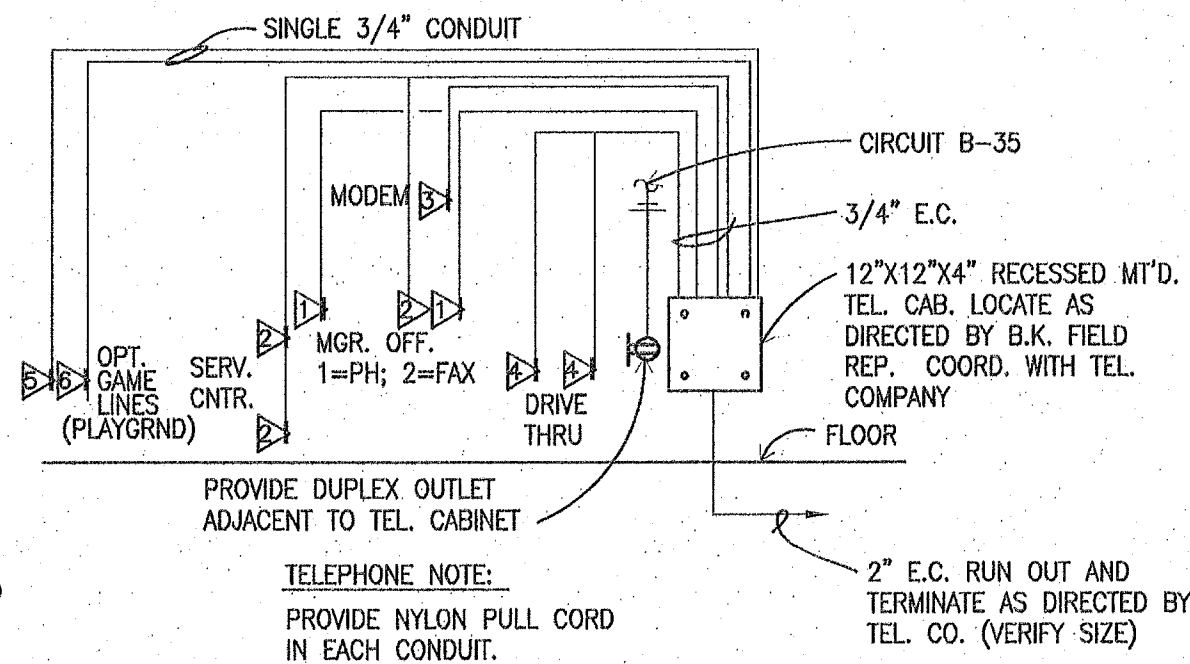
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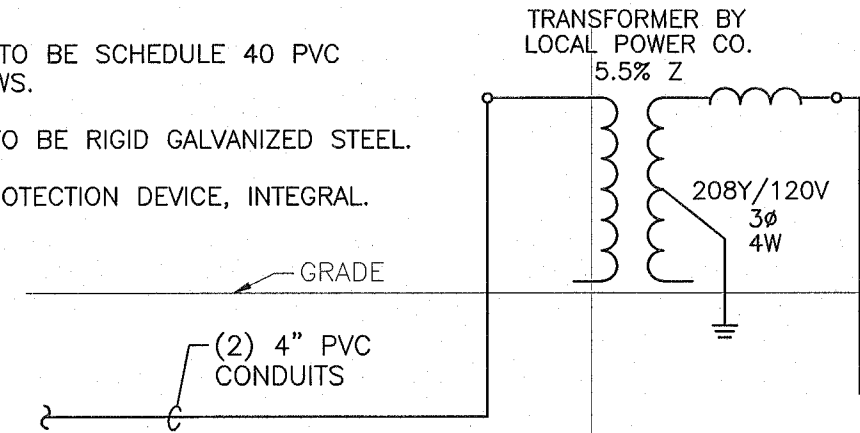


1 N.T.S.
AMEREX AUTOMATIC FIRE CONTROL SYSTEM

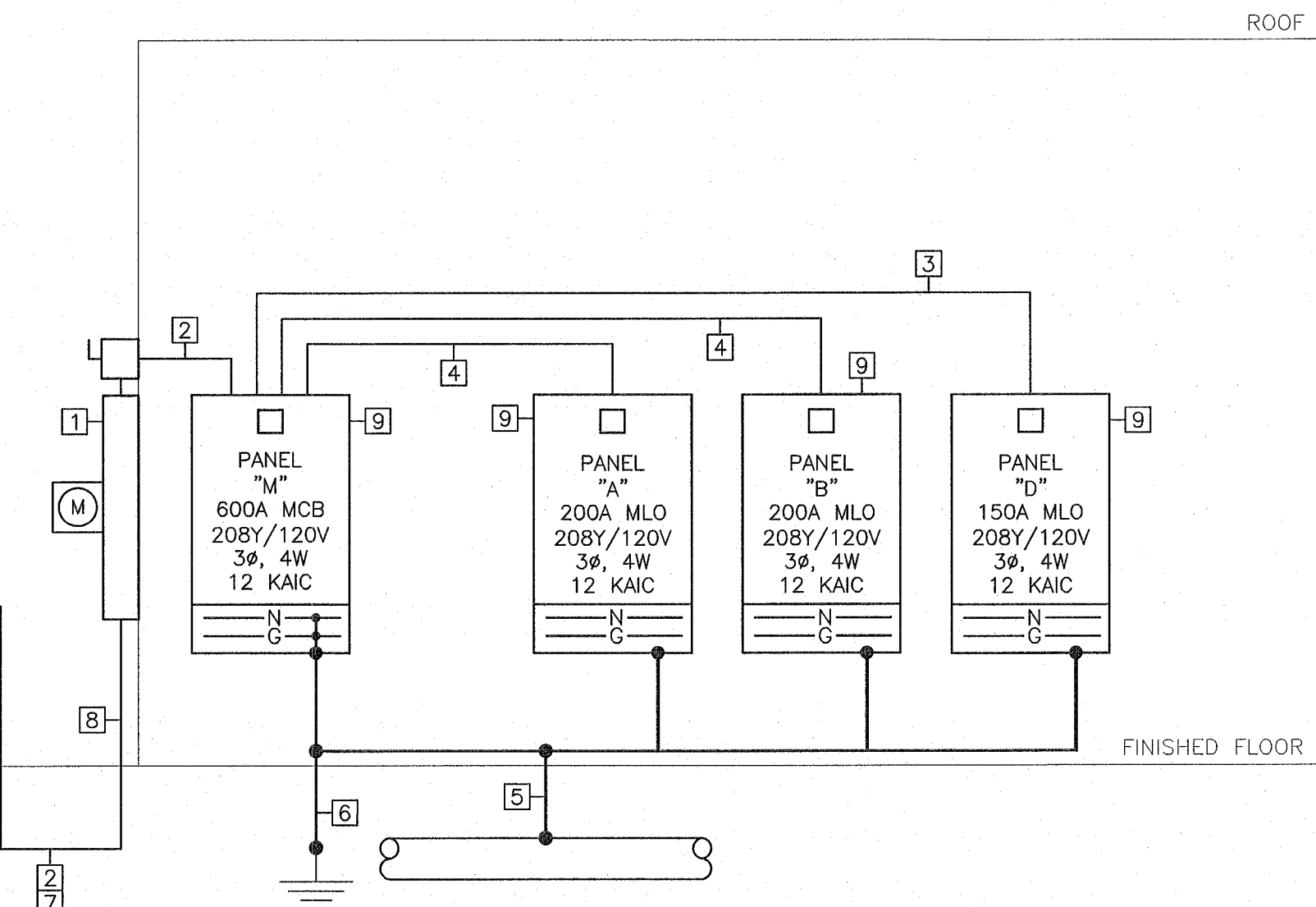


2 N.T.S.
TELEPHONE RISER DIAGRAM

- POWER RISER NOTES:
- 1 600 AMP CT/PT METER W/METER BASE. PROVIDE PER LOCAL UTILITY COMPANY REQUIREMENTS. PROVIDE ALL METERING CONDUITS AND METER STANDS. SEE SITE PLAN FOR LOCATIONS.
 - 2 TWO SETS OF (4) #350 MCM & (1) #1/0 THHN COPPER GROUND IN 4" SCH. 40 PVC, EACH SET. PROVIDE (1) SPARE 4" PVC.
 - 3 (4) #1/0 THHN AND (1) #6 COPPER GROUND IN 2".
 - 4 (4) #3/0 THHN AND (1) #6 COPPER GROUND IN 2".
 - 5 BOND TO COLD WATER PIPE AS IT ENTERS THE BUILDING PER NEC.
 - 6 PROVIDE GROUNDING MAT CONSISTING OF THREE (3) 5/8"x8" DRIVEN GROUND RODS CONNECTED BY 1 #1/0 GROUNDING CONDUCTOR.
 - 7 UNDERGROUND CONDUIT TO BE SCHEDULE 40 PVC WITH LONG SWEEP ELBOWS.
 - 8 ABOVE GRADE CONDUIT TO BE RIGID GALVANIZED STEEL.
 - 9 PROVIDE TVSS SURGE PROTECTION DEVICE, INTEGRAL.



3 N.T.S.
POWER RISER DIAGRAM



UNDERGROUND PRIMARY REQUIREMENTS

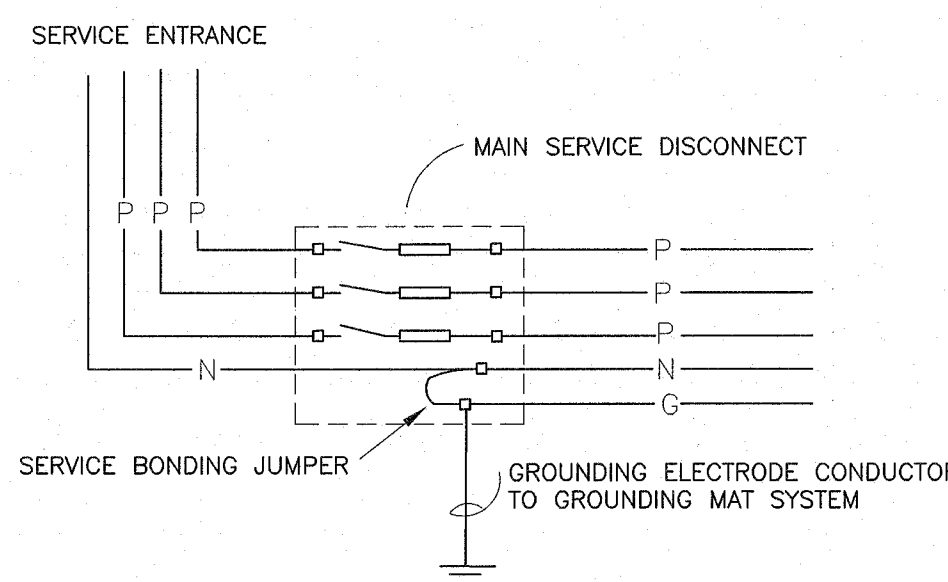
1. GENERAL:

- A. TRANSFORMER PADS, EXCAVATION, CONDUIT AND BACKFILL BY CONTRACTOR.
- B. PADMOUNT TRANSFORMERS, JUNCTION ENCLOSURES, HIGH VOLTAGE POWER CONDUCTORS AND INSTALLATION OF SAME BY LOCAL POWER COMPANY.
- C. UNDERGROUND CONSTRUCTION BY CONTRACTOR IS SUBJECT TO INSPECTION BY LOCAL POWER COMPANY, AND MUST BE APPROVED BY LOCAL POWER COMPANY PRIOR TO THE INSTALLATION OF CONDUCTOR AND TRANSFORMERS. CONDUIT TO BE INSPECTED BEFORE BACKFILLING.
- D. REFER TO LOCAL POWER COMPANY'S OPERATING POLICIES FOR ADDITIONAL RULES AND REGULATIONS.
- E. AREA IN QUESTION WILL BE AT LEAST ROUGH GRADE BEFORE ANY TRENCHING CAN BEGIN.
- F. ANY CHANGES TO THESE OR ANY OTHER LOCAL POWER COMPANY SPECIFICATIONS RELATING TO SAME MUST BE DESIGNED OR APPROVED BY LOCAL POWER COMPANY.
- G. BEFORE ANY EXCAVATION IS PERFORMED NEAR LOCAL POWER COMPANY'S EXISTING FACILITIES, A 48-HOUR NOTICE TO BUD (1-800-752-6007) MUST BE GIVEN SO THAT NECESSARY ACTION CAN BE TAKEN TO MINIMIZE DANGER TO LIFE AND/OR PROPERTY.

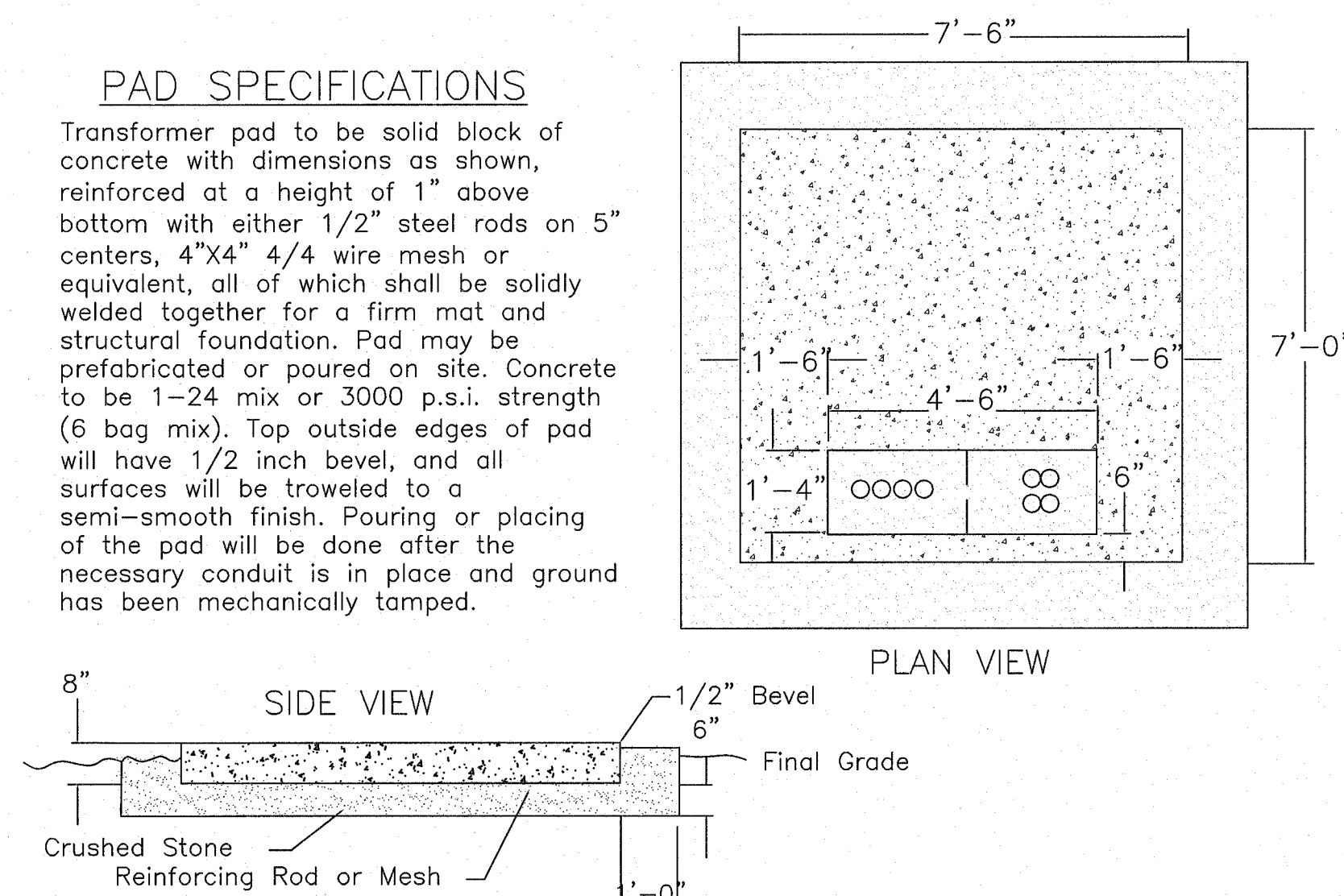
2. CONDUIT REQUIREMENTS:

- A. MINIMUM SIZE OF CONDUIT FOR UNDERGROUND PRIMARY TO BE (2) 4" SCH 40 PVC AND MINIMUM DEPTH FOR THIS CONDUIT TO BE 48". MINIMUM SIZE OF SECONDARY CONDUIT TO BE 4" SCH 40 PVC AND MINIMUM DEPTH 30".
- B. ALL CONDUITS TO BE TURNED UP INTO TRANSFORMERS AS SHOWN. SEE ATTACHED DETAILS.
- C. ALL BENDS IN CONDUIT TO BE OF SUFFICIENT RADII TO PERMIT EASE IN PULLING WIRE (NO PLUMBERS BENDS WILL BE ACCEPTED). ALL 90° BENDS IN PRIMARY CONDUIT WILL HAVE A MINIMUM RADIUS OF 36". ALL 90° BENDS IN SECONDARY CONDUIT WILL HAVE A MINIMUM RADIUS OF 18".
- D. ALL CONDUITS TO CONTAIN 150 LB. TEST (OR GREATER) NYLON STRING.
- E. BACKFILL OVER CONDUIT TO CONTAIN NO LARGE ROCKS OR DEBRIS.
- F. ALL CONDUITS BENEATH ROAD SURFACE WILL BE SCH 80, OR ENCASED IN A 4" CONCRETE ENVELOPE, AND WILL BE BACKFILLED WITH NO 9 CRUSHED STONE.
- G. ALL CONDUITS WILL BE INSTALLED AS SPECIFIED AND LOCATED BENEATH ALL OTHER UTILITIES WHERE POSSIBLE. ALTERATIONS TO THIS SPECIFICATION WILL BE DESIGNED OR APPROVED BY LOCAL POWER COMPANY.
- H. A "BURIED ELECTRIC LINES" WARNING TAPE (3" MINIMUM WIDTH) WILL BE INSTALLED 12" DIRECTLY OVER PRIMARY CONDUITS AND 12" BENEATH FINAL GRADE FOR SAME.
- I. SECONDARY CONDUITS WILL ALSO REQUIRE WARNING TAPE TO BE INSTALLED 12" BENEATH FINAL GRADE.
- J. WARNING TAPE WILL BE BY CONTRACTOR.
- K. CONTRACTOR MUST PROVIDE 30' RUNS OF 4" CONDUIT AND REQUIRED HARDWARE AT THE RISER POLE. LOCAL UTILITY COMPANY WILL PROVIDE STAND-OFF BRACKETS. SEE POWER RISER DIAGRAM FOR QUANTITIES.
- L. REAR PORTION OF TRANSFORMER PAD MUST REST ON UNDISTURBED OR WELL COMPACTED SUBGRADE.
- M. ENTIRE EXCAVATED AREA NEAR PAD TO BE BACKFILLED WITH NO 9 CRUSHED STONE.
- N. WHEN INSTALLING POWER CONDUCTORS PARALLEL TO WATER, SEWER, CABLE TELEVISION, GAS, TELEPHONE LINES, AND ETC, THERE MUST BE A MINIMUM OF 3' SEPARATION. NO OTHER UTILITIES MAY BE DIRECTLY ABOVE THE POWER CABLES.
- O. WHEN CROSSING OVER OTHER UTILITIES' BURIED LINES, INSTALL 4" CONCRETE ENCASEMENT AROUND CONDUIT TO LENGTH OF 4' TO EACH SIDE OF BURIED LINE BEING CROSSED. WHEN CROSSING UNDER OTHER UTILITIES' BURIED LINES, THERE MUST BE A MINIMUM OF A 2' SEPERATION.
- P. COORDINATE INSTALLATIONS OF METERING AND POWER AND OTHER REQUIREMENTS FOR METERING AND DISCONNECTS WITH LOCAL POWER COMPANY.

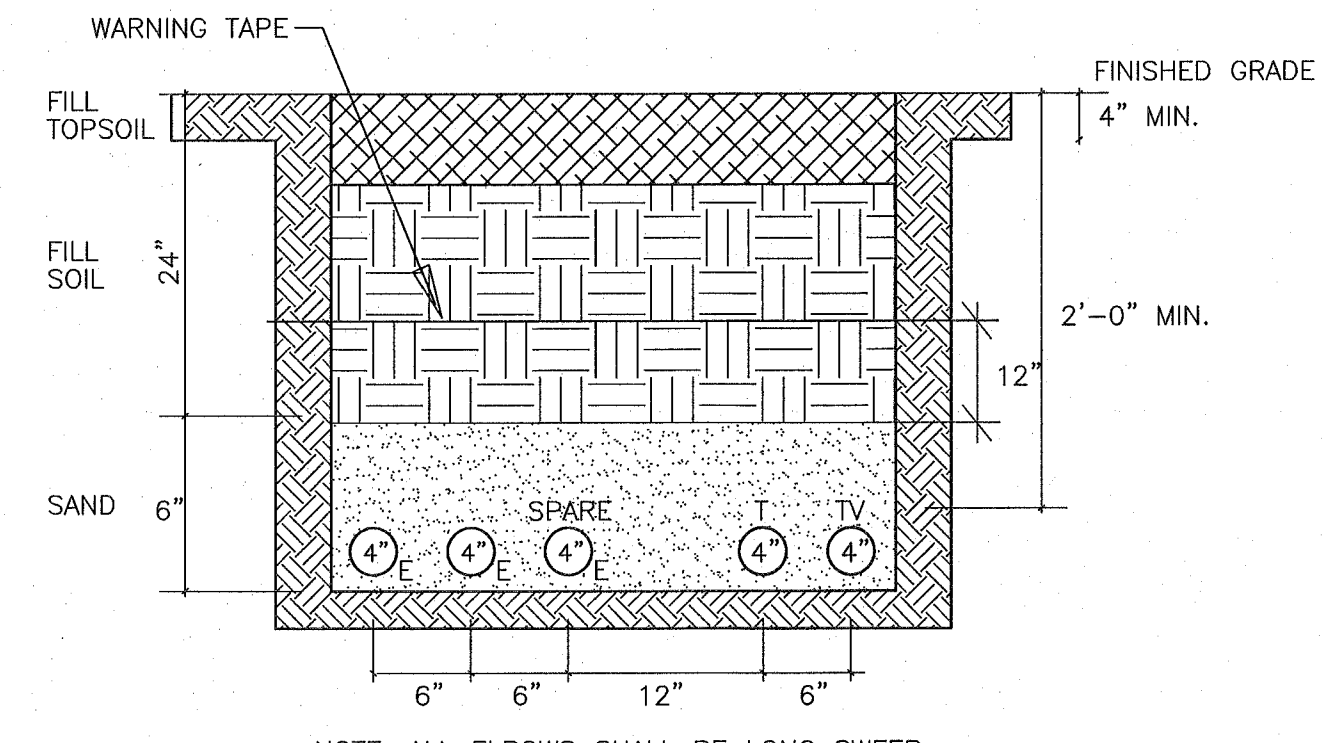
6 N.T.S.
UG CONDUIT NOTES



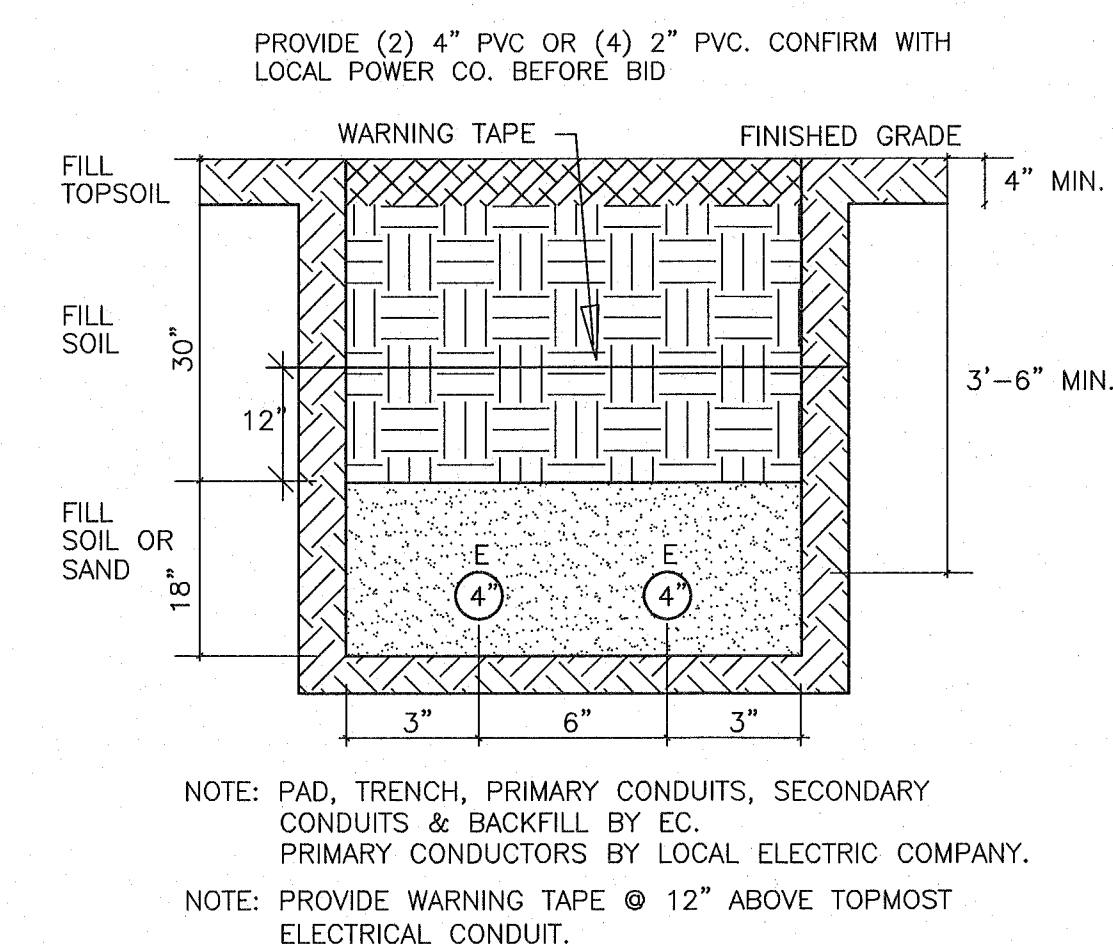
4 N.T.S.
SERVICE ENTRANCE GROUND/BOND DETAIL



7 N.T.S.
PAD MOUNTED TRANSFORMER CONCRETE PAD DETAIL



5 N.T.S.
SECONDARY TRENCH/BACKFILL DETAIL

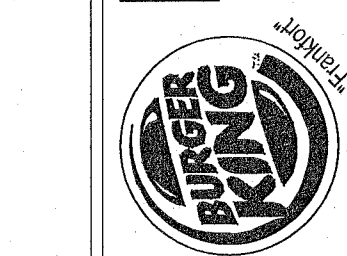


8 N.T.S.
PRIMARY TRENCH/BACKFILL DETAIL

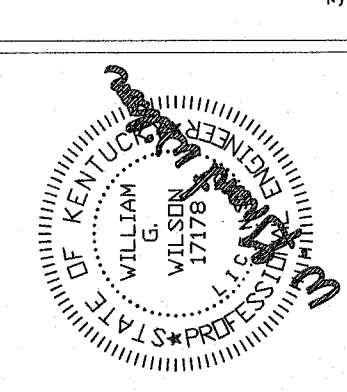
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OF

OF

SECTION 22000 - PLUMBING GENERAL CONDITIONS	
PART 1 GENERAL	
1.01 SUMMARY	
A.	This section supplements all sections of the Specifications for Division 22 and shall apply to all phases of work hereinafter specified, shown on the Contract Documents, or required to provide a complete installation of approved plumbing systems.
B.	The Drawings, General Conditions and General Provisions of the Contract apply to this Section and the other Sections of Division 22 of the specifications. Where conflicts arise between these documents, the more stringent provision will be applicable, subject to the interpretation of the Engineer.
C.	Furnish all labor, material, services, and skilled supervision necessary for the construction, erection, installation, connections, testing, and adjustment of all materials and plumbing equipment specified herein, or shown or noted on the Drawings, and its delivery to the Owner, complete in all respects and ready for use.
D.	Products furnished but not installed under this section: 1. Where plans indicate fixtures or equipment will be furnished by this Contractor for installation by other Contractors, this Contractor shall furnish all such equipment, complete in all respects and ready for installation. 2. Drawings, instructions, and manuals supplied with equipment furnished under Division 22, but installed under other Divisions shall be carefully preserved and turned over to the installing Contractor. E. Products installed but not furnished under this section: 1. Where plans indicate fixtures or equipment will be furnished by others, this Contractor shall provide all rough-in and supplies and shall connect such equipment to the plumbing systems. 2. Drawings, instructions, and manuals supplied with equipment furnished under separate Divisions but installed under Division 22 shall be carefully preserved and turned over to the Architect.
1.02 DEFINITIONS	
A.	"Work" is hereby defined as, "The construction and services required by the Contract Documents whether completed or partially completed and includes all labor, materials, equipment, and services provided or to be provided by the Contractor to fulfill the Contractor's obligations. The work may constitute the whole or a part of the project."
B.	"Furnish" is hereby defined as, "To supply and deliver, unload, and inspect for damage."
C.	"Install" is hereby defined as, "To unpack, assemble, erect, apply, place, finish, cure, protect, test, and place into operation into the work."
D.	"Provide" is hereby defined as, "To furnish and install."
E.	"Connect" is hereby defined as, "To bring service to the equipment and make final attachment including necessary switches, outlets, boxes, terminations, etc."
F.	"Concealed" is hereby defined as, "Hidden from sight in chases, furred spaces, shafts, hung ceilings, embedded in construction, in crawl spaces, or buried."
G.	"Exposed" is hereby defined as, "Not installed underground nor concealed as defined by the Specifications"
H.	"Drawings" is hereby defined as, "All plans, details, equipment schedules, diagrams, sketches, etc. issued for the construction of the work."
I.	Subgrade Elevations: 4 inches below finish grade elevations indicated on drawings, unless otherwise indicated.
J.	Finish Grade Elevations: 4 inches above subgrade elevations indicated on drawings, unless otherwise indicated.
1.03 CODES AND STANDARDS	
A.	Perform work in accordance with the applicable Building Code, Electrical Code, Fire Code, Mechanical Code, Plumbing Code, Energy Code, and all other applicable codes, amendments, and ordinances. Also perform all work in accordance with the Americans with Disabilities Act (ADA) and the Authority Having Jurisdiction (AHJ) including Fire Marshalls.
B.	Perform work in accordance with Landlord requirements, including any Tenant Criteria Manuals and Lease Exhibits, where applicable.
C.	Perform work in accordance with the applicable utility companies serving the project. Make all arrangements with the utility companies for proper coordination of the work.
D.	Recognized Standards: Design, manufacture, testing and method of installation of all apparatus and materials furnished under the requirements of these Specifications shall conform to the latest publications or standard rules of Underwriters Laboratories, Inc. (U.L.), American Society for Testing and Materials (ASTM), American National Standards Institute (ANSI), and National Electrical Code (NEC).
E.	The Contract Documents shall take precedence where the Contract Documents exceed code, Landlord, utility, or recognized standards requirements.
1.04 PERMITS AND FEES	
A.	Permits, licenses, fees, inspections and arrangements required for the work under this Contract shall be obtained by the Contractor at his expense, unless otherwise indicated.
B.	All fees and scheduling associated with obtaining an accurate water flow test shall be at the Contractor's expense.
1.05 CONTRACT DRAWINGS	
A.	The Contractor is responsible to obtain, fully understand, and coordinate the work with the complete set of Contract Documents. Any required corrections, including all associated costs, arising from issues caused by the Contractor's failure to understand and/or coordinate the work with the complete set of Contract Documents are the Contractor's sole responsibility.
B.	Work under these sections is diagrammatic unless indicated otherwise and is intended to convey the scope of work and indicate the general arrangement of piping, equipment, and accessories. Follow these drawings in laying out the work and verify spaces for the installation of these materials and equipment. Wherever a question exists as to the exact intended location of pipe, sprinklers, or equipment, obtain instructions from the Architect before proceeding with the work.
C.	Notify the Architect/Engineer for resolution if a discrepancy is discovered within the Contract Documents. Failure of the Contractor to notify the Architect/Engineer of discrepancies shall result in the resolution becoming the Contractor's responsibility and subject to the Architect/Engineer's review and possible rejection. Should the Architect/Engineer reject a discrepancy resolution of which they were not notified, the Contractor is fully responsible to correct the installation, including all associated costs, until approval of the installation is given by the Architect/Engineer.
1.06 EXISTING CONDITIONS	
A.	Verify all existing conditions prior to beginning work.
B.	Any existing conditions indicated in the Contract Documents are based on information drawings provided by others and possibly limited field verification. The Contractor shall adjust for actual field conditions at no additional expense to the Owner.
C.	The Contractor shall visit the project site, review existing conditions against the Contract Documents, and familiarize himself with the work prior to bidding and start of the work. By signing the Contract, the Contractor acknowledges the site visit has been completed and the existing conditions are accepted.
D.	The Contractor shall notify the Architect of major discrepancies in writing so the appropriate modifications to the design can be made without delay to the project. The Contractor assumes full responsibility of adjusting for discrepancies of which the Architect is not informed.
F.	The Owner shall have first salvage right on all demolished equipment and materials. The Contractor shall dispose of all demolished equipment and materials the Owner rejects.
G.	The Contractor shall notify the Architect/Engineer of field discrepancies in writing so the appropriate modifications to the design can be made without delay to the project. The Contractor assumes full responsibility of adjusting for discrepancies of which the Architect/Engineer is not informed.
H.	Where connections are made between new work and existing work, the connections shall be made by using materials and methods to suit the actual conditions.
I.	Where existing conditions are shown to be removed, by means of a hatched pattern, on the Drawings, this Contractor shall perform all work required for removal. Existing pipe run-outs shall be removed all the way back to mains and capped using appropriate methods.
J.	Where existing work is to be modified, it shall be done in conformance with these specifications. Materials used shall be same as existing except where specified otherwise.
1.07 SUBMITTALS	
A.	Shop Drawings: 1. Furnish the Architect/Engineer shop drawing portfolios containing names of manufacturer and cut sheets of equipment to be used on the project. Use manufacturer's specification sheets identified by number indicated on drawings or schedules. Indicate catalog number on the cut sheets. As applicable, provide construction data, weight and dimensional data, performance data and listing data as part of the shop drawing submittal. Provide shop drawings for: a. Plumbing fixtures and equipment. b. Plumbing materials and accessories. c. Product Data: Provide manufacturers catalogue information. Indicate valve data and ratings.

2.	Submittals are reviewed only for general compliance with the Contract Documents. Dimensions, quantities and details are not checked during submittal review. Review of the submittals does not relieve the Contractor of the responsibility for providing all materials, equipment and accessories necessary for a complete and operational system meeting the requirements of the project and the intent of the Contract Documents. The responsibility for coordination of substituted materials and equipment lies solely with the substituting Contractor.
3.	Approval shall not relieve the Contractor from responsibility for errors on the shop drawings.
4.	If the shop drawings deviate from the contract documents, the Contractor shall advise the Engineer of the deviations in writing accompanying the shop drawings, including the reasons for the deviations.
B.	Project Record Documents: Record actual locations of components and tag numbering.
C.	Operation and Maintenance Data: Include installation instructions and spare parts lists.
D.	Maintenance Data: Include assembly drawings, bearing data including replacement sizes, and lubrication instructions.
1.08 QUALITY ASSURANCE	
A.	Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum five years experience.
B.	Installer Qualifications: Company specializing in performing the work of this section with minimum five years experience. approved by manufacturer.
C.	Products: 1. Listed and classified by Underwriters Laboratories Inc. as suitable for the purpose specified and indicated. 2. Listed and classified by the local Department of Buildings and furnished with an acceptance number, where applicable. 3. Listed and classified by the Landlord's and/or Owner's insurance carrier, where applicable.
D.	All equipment and components shall be free of all rust/corrosion or any visible damage. All items not complying with this requirement shall be replaced without any change in the Contract amount.
E.	Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system, including all required components reasonably inferred to as necessary although such components may or may not be specifically indicated in the Contract Documents.
F.	Code or utility company requirements shall supersede any conflicting requirements of this section.
G.	Fill Composition Test Reports: Results of laboratory tests on actual materials used, Compaction Density Test Reports.
1.09 DELIVERY, STORAGE, AND HANDLING	
A.	Deliver and store valves in shipping containers, with labeling in place.
B.	Provide temporary protective coating on cast iron and steel valves.
C.	Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.
D.	Protect motors stored on site from weather and moisture by maintaining factory covers and suitable weather-proof covering. For extended outdoor storage, remove motors from equipment and store separately.
E.	Equipment: Protect equipment from physical damage by storing off site until the project is ready for immediate installation. Provide temporary caps on all pipes to prevent debris from entering the pipe.
1.10 WARRANTY AND GUARANTEE	
A.	Additional warranty and guarantee terms in excess of this requirement are specified within the individual sections of Division 22.
B.	Provide five year manufacturer warranty for domestic water heaters and packaged water heating systems.
C.	Provide one year manufacturer warranty for pumps.
PART 2 PRODUCTS	
2.01 SUBSTITUTIONS	
A.	The manufacturers listed are listed to set minimum standards for quality, design, and functionality. The products of other manufacturers may be submitted, at the Contractor's option, during shop drawing review unless indicated otherwise. The products of other manufacturers shall meet or exceed all requirements of the Contract Documents. The Contractor accepts all responsibility for costs and coordination issues arising out of the substitution of materials or equipment, and the coordination of such substitutions with all other contractors and subcontractors.
PART 3 EXECUTION	
3.01 COORDINATION OF WORK	
A.	Examine the Contract Documents as a whole for the work of other trades. Coordinate all work accordingly.
B.	Work lines and established heights shall be in strict accordance with architectural drawings and specifications insofar as these drawings and specifications extend. Verify all dimensions shown and establish all elevations and detailed dimensions not shown.
C.	Promptly report to the Architect any delay or difficulties encountered in the installation of the work, which might prevent prompt and proper installation, or make it unsuitable to connect with or receive the work of others. Failure to so report shall constitute an acceptance of the work of other trades as being fit and proper for the execution of this work.
D.	Plan, lay out, and coordinate the work with all trades well enough in advance so that it proceeds with a minimum of interference to work that has not been completed and work that is in progress. Inform all trades of openings required for the work and provide all special frames, sleeves, and anchor bolts required. The fire suppression system layout may be altered to suit the conditions, prior to the installation of any work and without additional cost to the Owner. Conflicts arising from lack of coordination shall be the Contractor's responsibility.
E.	Wherever pipe runs in or above ceilings or walls, the Contractor shall arrange the run of pipe in such a manner that it does not interfere with grilles, diffusers, outlet boxes, luminaires, or other ceiling mounted items.
F.	Install systems, materials and equipment to provide for maximum headroom, where no ceiling height is established or indicated on the Drawings. Maintain access to equipment requiring service when installing elevators.
G.	Install systems, materials and equipment level and plumb, parallel and perpendicular to building lines where exposed to view, unless otherwise indicated.
H.	Conflicts arising from lack of coordination shall be this Contractor's responsibility. The Plumbing Contractor shall pay for all extra cutting and patching made necessary by his failure to properly direct such work at the correct time.
I.	Perform all work in conformity with the Contract Documents and afford other trades reasonable opportunity for the execution of their work. Properly connect and coordinate this work with the work of other trades at such time and in such a manner as not to delay or interfere with their work.
J.	Manufacturer's instruction sheets shall be followed explicitly in the installation of all equipment. Where manufacturer's instruction sheets conflict with requirements of these specifications or the Drawings, such conflicts shall be brought to the attention of the Architect/Engineer for clarification.
K.	All roofing penetrations shall be flashed and weather sealed by the roofing manufacturer's authorized roofing contractor at this Contractor's expense. This Contractor shall contract with the factory authorized roofing contractor for the specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.
L.	Although all such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.
M.	Verify and coordinate all requirements and installation details of all materials and equipment that are to be furnished under other Divisions and installed or connected under Division 22 prior to rough-in. Conflicts arising from lack of coordination shall be this Contractor's responsibility. As such, the Contractor is responsible to: 1. Obtain and review shop drawings, product data, manufacturer's wiring diagrams, and manufacturer's instructions for equipment furnished under other sections. 2. Determine connection locations and requirements. 3. Sequence rough-in of plumbing connections to coordinate with installation of equipment.
3.02 COORDINATION DRAWINGS	
A.	Prepare coordination drawings to a scale of 1/4"=1'-0" or larger, detailing major elements, components, and systems of plumbing equipment and materials in relationship with other systems, installations, and building components. Indicate locations where space is limited for installation and access and where sequencing and coordination of installations are of importance to the efficient flow of the work, including (but not necessarily limited to) the following: 1. Indicate the proposed locations of conduits, equipment, and materials. Include the following: a. Clearances required for maintaining Code required working space. b. Equipment connections and support details.

c.	Exterior wall and foundation penetrations.
d.	Fire-rated wall and floor penetrations.
e.	Sizes and location of required concrete pads and bases.
f.	Indicate scheduling, sequencing, movement, and positioning of large equipment into the building during construction.
g.	Prepare floor plans, elevations, and details to indicate penetrations in floors, walls, and ceilings and their relationship to other penetrations and installations.
3.03 EXAMINATION	
A.	Verify field measurements are as indicated on the Drawings.
B.	Verify all pipe locations and sizes in field prior to fabrication or installation.
C.	Verify all equipment locations in field prior to installation. Coordinate final locations with all trades.
3.04 INTERFACE WITH OTHER PRODUCTS	
A.	Install all pipe, equipment, and accessories to preserve fire resistance rating of partitions and other elements, using materials and methods specified.
3.05 FIELD QUALITY CONTROL	
A.	Provide tests as necessary to establish the adequacy, quality, safety, completed status, and suitable operation of each system. Tests shall be conducted under the supervision of the Architect.
B.	Install all equipment, devices, pipe, and materials securely and in a neat and workmanlike manner in accordance with all applicable standards and codes.
C.	Install all equipment, pipe, and materials plumb and level and align and adjust for satisfactory operation.
D.	Install all equipment, pipe, and materials in accordance with the manufacturer's instructions and recommendations.
E.	Inspect all equipment, pipe, and materials for defects.
3.06 ERECTION	
A.	Rigging: 1. The Plumbing Contractor shall arrange for all labor and equipment required for the proper installation of the plumbing equipment in the locations indicated on the Drawings. Where crane rental or other erection is required, such costs shall be included in the Plumbing Contract, unless specific arrangements are made with the General Contractor to cover these costs.
B.	Supplemental Framing: 1. Provide the design, fabrication, and erection of supplementary structural framing required for attachment of hangers or other devices supporting plumbing equipment. Provide framing members of standard rolled steel shapes, A-36 steel. Provide members welded to structural members equal to the specification for the main structural member. Provide "simple beam" type framing with end connections welded or bolted for shear loads. Use cantilevers when detailed or specifically approved by the Architect/Engineer. The Architect/Engineer's approval is required for location of supplementary framing. Use only certified welders. Design framing members for their actual loads, with allowable stresses specified by AISC, without excessive deflection and with consideration for rigidity under vibration, in accordance with standard structural practices. Show on shop drawing supplementary framing, including design loads, member size and location.
3.07 CUTTING, PATCHING, AND PIERCING	
A.	Cutting of openings and installation of sleeves or frames through walls and surfaces shall be done in a neat workmanlike manner. Openings shall be cut only as large as required for the installation; sleeves and/or frames installed flush with finished surfaces and grouted in place. Surfaces around openings shall be left smooth and finished to match surrounding surface.
B.	Obtain written permission of the Architect/Engineer before cutting or piercing structural members. Use craftsmen skilled in their respective trades for cutting, fitting, repairing, patching of plaster, and finishing of materials including carpentry work, metal work or concrete work required.
C.	Do not weaken walls, partitions, or floors with cutting. Holes required to be cut in floors must be drilled without breaking out around the holes. The Architect/Engineer will determine suitability of patching and/or refinishing requirements.
D.	The Plumbing Contractor is responsible for patching of all openings resulting from the installation or removal of plumbing equipment or materials.
E.	Provide and maintain temporary partitions or dust barriers adequate to prevent the spread of dust and dirt to adjacent areas.
F.	Patch existing finished surfaces and building components using new materials matching existing materials and experienced Subcontractors.
G.	Fire and Smoke Partition Penetrations: The Contractor shall familiarize himself with all fire rated construction and install his work so as to maintain the integrity of the fire code rating. Maintain rating of fire rated and smoke rated construction. Seal annular space around conduits. For fire and smoke rated floors, walls and partitions, use UL listed material that maintains fire rated wall and floor integrity.
3.08 CLEANING AND REPAIR	
A.	Clean plumbing parts to remove harmful materials.
B.	Clean exposed surfaces of all pipe, equipment, and accessories of all dirt, debris, splatter, and other deleterious materials. Follow the manufacturer's recommendations for cleaning as applicable.
C.	Repair or replace damaged pipe, equipment, and accessories, as directed by and to the satisfaction of the Architect, where marling or disfigurement has occurred.
D.	All pipe, equipment, and accessories shall be new.
3.09 TESTING AND INSPECTION	
A.	Upon completion, the entire system shall be tested under operating conditions.
1.	All equipment shall be tested under service conditions and proven to operate properly and noiselessly.
2.	All additional tests as required throughout this Specification shall be completed with results reported back to the Architect/Engineer for review.
B.	Operate all equipment, after installation and connection. Inspect for improper connections and operation and correct deficiencies as required.
C.	Inspection: 1. Upon completion of the work, the Contractor shall obtain certificates of inspection and approval from all City and State Authorities Having Jurisdiction.
3.10 PROJECT CLOSEOUT	
A.	Project Record Documents: At project closeout, provide one printed copy and one electronic copy of project record drawings to the Owner. Information contained on project record drawings shall include, as a minimum; 1. Actual locations of all pipe, equipment, accessories, etc. 2. Actual pipe sizes and elevations. 3. Actual routing of all underfloor or below grade piping.
B.	Operation and Maintenance Data: At project closeout, submit to the Architect two copies of descriptive literature, maintenance and operation data for all piping, equipment, accessories, and materials used. Include maintenance procedures, intervals, and parts list of each item installed under this contract. Include all manufacturer's guarantees and warranties.

END OF SECTION	
SECTION 220516 - EXPANSION FITTINGS AND LOOPS FOR PLUMBING PIPING	
PART 1 GENERAL	
1.01 SECTION INCLUDES	
A.	Flexible pipe connectors; Pipe loops, offsets, and swing joints.
PART 2 PRODUCTS	
2.01 FLEXIBLE PIPE CONNECTORS - COPPER PIPING	
A.	Manufacturer: Mercer Rubber Company; Metraflex Company.
B.	Inner Hose: Bronze; Exterior Sleeve: Braided bronze; Pressure Rating: 125 psi and 450 degrees F; Joint: As specified for pipe joints; Size: Use pipe sized units; Maximum offset: 1 inch on each side of installed center line; Application: Copper piping.
2.02 FLEXIBLE PIPE CONNECTORS - STEEL PIPING	
A.	Manufacturer: Mercer Rubber Company; Metraflex Company.
B.	Inner Hose: Pressure Rating: 125 psi and 450 degrees F; Joint: As specified for pipe joints; Size: Use pipe sized units; Maximum offset: 1 inch on each side of installed center line; Application: Steel piping.
PART 3 EXECUTION	
3.01 INSTALLATION	
A.	Install in accordance with manufacturer's instructions.
B.	Install in accordance with EJMA (Expansion Joint Manufacturers Association) Standards.
C.	Install flexible pipe connectors on pipes connected to vibration isolated equipment. Provide proper size flexible connectors.
D.	Install flexible connectors at right angles to displacement. Install one end immediately adjacent to isolated equipment and anchor other end. Install in horizontal plane unless indicated otherwise.
E.	Anchor pipe to building structure where indicated and as required to control detrimental movement of piping. Provide pipe guides so movement is directed along axis of pipe only. Erect piping such that strain and weight is not on connections or apparatus.

F.	Provide support and equipment required to control expansion and contraction of piping. Provide loops, pipe offsets, and swing joints, or approved expansion joints where required.
G.	Contractor may substitute grooved piping for vibration isolated equipment instead of flexible connectors. Grooved piping need not be anchored.

END OF SECTION	
SECTION 220519 - METERS AND GAGES FOR PLUMBING PIPING	
PART 1 GENERAL	
1.01 SECTION INCLUDES	
A.	Positive displacement meters;
PART 2 PRODUCTS	
2.01 MANUFACTURERS: Manufacturers:	Dwyer Instruments, Inc; FMC Technologies; Venture Measurement Company; McCrometer; Moeller Instrument Co., Inc; Omega Engineering, Inc.
2.02 POSITIVE DISPLACEMENT METERS (LIQUID)	
A.	AAWMA C700, positive displacement disc type suitable for fluid with bronze case and cast iron frost-proof, breakaway bottom cap, hermetically sealed register, remote reading to AAWMA C706.
B.	Meter: Brass body turbine meter with magnetic drive register; Accuracy: 1-1/2 percent.

END OF SECTION	
SECTION 220548 - VIBRATION AND SEISMIC CONTROLS FOR PLUMBING PIPING AND EQUIPMENT	
PART 1 GENERAL	
1.01 SECTION INCLUDES	
A.	Concrete housekeeping pads; Vibration isolators; Seismic restraints.
PART 2 PRODUCTS	
2.01 MANUFACTURERS	
A.	Isolation Technology, Inc.; Kinetics Noise Control, Inc.; Mason Industries.
2.02 BASES	
A.	Concrete Housekeeping Pad: Construction: Concrete as specified for flooring; Design: 4" high above the surrounding finished flooring and 4" greater in dimension that the equipment supported, or greater if detailed on the Drawings or when indicated.
2.03 VIBRATION ISOLATORS	
A.	Restrained Open Spring Isolators: Springs: Minimum horizontal stiffness equal to 75 percent vertical stiffness, with working deflection between 0.3 and 0.6 of maximum deflection. Color code springs for load carrying capacity; Spring Mounts: Provide with leveling devices, minimum 0.25 inch thick neoprene sound pads, and zinc chromate painted hardware; Sound Pads: Size for minimum deflection of 0.05 inch; meet requirements for neoprene pad isolators; Restraint: Provide heavy mounting frame and limit stops; For Exterior and Humid Areas: Hot dipped galvanized housings and neoprene coated springs.
B.	Spring Hanger: Springs: Minimum horizontal stiffness equal to 75 percent vertical stiffness, with working deflection between 0.3 and 0.6 of maximum deflection. Color code springs for load carrying capacity; Housings: Incorporate neoprene isolation pad meeting requirements for neoprene pad isolators or rubber hanger with threaded insert; Misalignment: Capable of 20 degree hanger rod misalignment; For Exterior and Humid Areas: Hot dipped galvanized housings and neoprene coated springs.
C.	Neoprene Pad Isolators: Rubber or neoprene waffle pads; Hardness: 30 durometer; Thickness: Minimum 1/2 inch; Maximum Loading: 50 psi; Rib Height: Maximum 0.7 times width; Configuration: Single layer.
D.	Rubber Mount or Hanger: Molded rubber designed for 0.4 inch deflection with threaded insert.
E.	Glass Fiber Pads: Neoprene jacketed pre-compressed molded glass fiber.

END OF SECTION	
SECTION 220595 - FIRE STOPPING FOR PLUMBING SYSTEMS	
PART 1 GENERAL	
1.01 SECTION INCLUDES	
A.	Firestopping materials; Firestopping of all penetrations and interruptions to fire rated assemblies, whether indicated on Drawings or not, and other openings indicated.
PART 2 PRODUCTS	
2.01 FIRESTOPPING ASSEMBLIES	
A.	Firestopping: Any material meeting requirements; Fire Ratings: Use any system listed by UL or FM or tested in accordance with ASTM E 814 or ASTM E 119 that has F Rating equal to fire rating of penetrated assembly and minimum T Rating Equal to F Rating and that meets all other specified requirements.
2.02 MATERIALS	
A.	Manufacturers: A/D Fire Protection Systems Inc; 3M Fire Protection Products; Specified Technologies, Inc.
B.	Elastomeric Silicone Firestopping: Single or multiple component silicone elastomeric compound and compatible silicone sealant; conforming to the following: Durability and Longevity: Permanent; Color: Manufacturer's standard color.
C.	Foam Firestopping: Single or multiple component foam compound; conforming to the following: Durability and Longevity: Permanent; Color: Manufacturer's standard color.
D.	Fibered Compound Firestopping: Formulated compound mixed with incombustible non-asbestos fibers; conforming to the following: Durability and Longevity: Permanent; Color: Manufacturer's standard color.
E.	Fiber Packing Material: Mineral or ceramic fiber packing insulation; conforming to the following: Durability and Longevity: Permanent.
F.	Firestop Devices: Mechanical device with incombustible or silicone elastomer

	filler and sheet stainless steel jacket, collar, and flanged stops; conforming to the following: Durability and Longevity: Permanent; suitable for pedestrian traffic or vehicular traffic where necessary.
G.	Firestop Pillows: Formed mineral fiber pillows; conforming to the following: Durability and Longevity: Permanent.
H.	Primers, Sleeves, Forms, and Accessories: Type required for tested assembly design.

END OF SECTION	
SECTION 220719 - PLUMBING PIPING INSULATION	
PART 1 GENERAL	
1.01 SECTION INCLUDES	
A.	Plumbing piping insulation; Domestic hot and tempered water piping; Domestic cold water piping; Cooling condensate drain piping insulation; Roof/overflow drainage piping.
PART 2 PRODUCTS	
2.01 REQUIREMENTS FOR ALL PRODUCTS OF THIS SECTION	
A.	Surface Burning Characteristics: Flame spread/Smoke developed Index of 25/50, maximum, when tested in accordance with ASTM E 84, NFPA 255, or UL 723.
B.	The Contractor may use any of the following insulating/jacketing materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected insulating/jacketing material is the sole responsibility of the installing Contractor.
2.02 GLASS FIBER	
A.	Manufacturers: Knauf Insulation; Johns Manville Corporation; Owens Corning Corp; CertainTeed Corporation.
B.	Insulation: ASTM C 547 and ASTM C 795; rigid molded, noncombustible; "K" value: ASTM C 177, 0.24 at 75 degrees F; Maximum service temperature: 850 degrees F; Maximum moisture absorption: 0.2 percent by volume.
C.	Insulation: ASTM C 547 and ASTM C 795; semi-rigid, noncombustible, end grain adhered to jacket; "K" value: ASTM C 177, 0.24 at 75 degrees F; Maximum service temperature: 650 degrees F; Maximum moisture absorption: 0.2 percent by volume.
D.	Vapor Barrier Jacket: White kraft paper with glass fiber yarn, bonded to aluminumized film; moisture vapor transmission when tested in accordance with ASTM E 99E 96M of 0.02 perm-inches.
E.	Vapor Barrier Lap Adhesive: Compatible with insulation.
F.	Insulating Cement/Mastic: ASTM C 195; hydraulic setting on mineral wool.
G.	Fibrous Glass Fabric: Cloth: Untreated; 9 oz/sq yd weight; Blanket: 1.0 lb/cu ft density; Weave: 5x5.
H.	Indoor Vapor Barrier Finish: Vinyl emulsion type acrylic, compatible with insulation, white color; Outdoor Vapor Barrier Mastic: Vinyl emulsion type acrylic or mastic, compatible with insulation, black color; Outdoor Breather Mastic: Vinyl emulsion type acrylic or mastic, compatible with insulation, black color.
K.	Insulating Cement: ASTM C 449/C 449M.
2.03 FLEXIBLE ELASTOMERIC CELLULAR INSULATION	
A.	Manufacturer: Armacel International;
B.	Insulation: Preformed flexible elastomeric cellular rubber insulation complying with ASTM C 534 Grade 1; use molded tubular material wherever possible; Minimum Service Temperature: -40 degrees F; Maximum Service Temperature: 220 degrees F; Connection: Waterproof vapor barrier adhesive.
C.	Elastomeric Foam Adhesive: Air dried, contact adhesive, compatible with insulation.
2.04 JACKETS	
A.	Plastic: 1. Manufacturers: Knauf Fiber Glass; Johns Manville Corporation; Owens Corning Corp; CertainTeed Corporation.
B.	ABS Plastic: 1. Jacket: One piece molded type fitting covers and sheet material, off-white color; Minimum Service Temperature: -40 degrees F; Maximum Service Temperature: 150 degrees F; Moisture Vapor Permeability: 0.002 perm inch, maximum, when tested in accordance with ASTM E 96/E 96M; Thickness: .30 mil; Connections: Brush on welding adhesive; Covering Adhesive Mastic: Compatible with insulation.

END OF SECTION	
SECTION 220719 - PLUMBING PIPING INSULATION	
PART 1 GENERAL	
1.01 SECTION INCLUDES	
A.	Plumbing piping insulation; Domestic hot and tempered water piping; Domestic cold water piping; Cooling condensate drain piping insulation; Roof/overflow drainage piping.
PART 2 PRODUCTS	
2.01 REQUIREMENTS FOR ALL PRODUCTS OF THIS SECTION	
A.	Surface Burning Characteristics: Flame spread/Smoke developed Index of 25/50, maximum, when tested in accordance with ASTM E 84, NFPA 255, or UL 723.
B.	The Contractor may use any of the following insulating/jacketing materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected insulating/jacketing material is the sole responsibility of the installing Contractor.
2.02 GLASS FIBER	
A.	Manufacturers: Knauf Insulation; Johns Manville Corporation; Owens Corning Corp; CertainTeed Corporation.
B.	Insulation: ASTM C 547 and ASTM C 795; rigid molded, noncombustible; "K" value: ASTM C 177, 0.24 at 75 degrees F; Maximum service temperature: 850 degrees F; Maximum moisture absorption: 0.2 percent by volume.
C.	Insulation: ASTM C 547 and ASTM C 795; semi-rigid, noncombustible, end grain adhered to jacket; "K" value: ASTM C 177, 0.24 at 75 degrees F; Maximum service temperature: 650 degrees F; Maximum moisture absorption: 0.2 percent by volume.
D.	Vapor Barrier Jacket: White kraft paper with glass fiber yarn, bonded to aluminumized film; moisture vapor transmission when tested in accordance with ASTM E 99E 96M of 0.02 perm-inches.
E.	Vapor Barrier Lap Adhesive: Compatible with insulation.
F.	Insulating Cement/Mastic: ASTM C 195; hydraulic setting on mineral wool.
G.	Fibrous Glass Fabric: Cloth: Untreated; 9 oz/sq yd weight; Blanket: 1.0 lb/cu ft density; Weave: 5x5.
H.	Indoor Vapor Barrier Finish: Vinyl emulsion type acrylic, compatible with insulation, white color; Outdoor Vapor Barrier Mastic: Vinyl emulsion type acrylic or mastic, compatible with insulation, black color; Outdoor Breather Mastic: Vinyl emulsion type acrylic or mastic, compatible with insulation, black color.
K.	Insulating Cement: ASTM C 449/C 449M.
2.03 FLEXIBLE ELASTOMERIC CELLULAR INSULATION	
A.	Manufacturer: Armacel International;
B.	Insulation: Preformed flexible elastomeric cellular rubber insulation complying with ASTM C 534 Grade 1; use molded tubular material wherever possible; Minimum Service Temperature: -40 degrees F; Maximum Service Temperature: 220 degrees F; Connection: Waterproof vapor barrier adhesive.
C.	Elastomeric Foam Adhesive: Air dried, contact adhesive, compatible with insulation.
2.04 JACKETS	
A.	Plastic: 1. Manufacturers: Knauf Fiber Glass; Johns Manville Corporation; Owens Corning Corp; CertainTeed Corporation.
B.	ABS Plastic: 1. Jacket: One piece molded type fitting covers and sheet material, off-white color; Minimum Service Temperature: -40 degrees F; Maximum Service Temperature: 150 degrees F; Moisture Vapor Permeability: 0.002 perm inch, maximum, when tested in accordance with ASTM E 96/E 96M; Thickness: .30 mil; Connections: Brush on welding adhesive; Covering Adhesive Mastic: Compatible with insulation.
C.	Aluminum Jacket: ASTM B 209 (ASTM B 209M) formed aluminum sheet; Thickness: 0.016 inch sheet; Finish: Embossed; Joining: Longitudinal slip joints and 2 inch laps; Fittings: 0.016 inch thick die shaped fitting covers with factory attached protective liner; Metal Jacket Bands: 3/8 inch wide; 0.015 inch thick aluminum; Metal Jacket Bands: 3/8 inch wide; 0.010 inch thick stainless steel.
D.	Stainless Steel Jacket: ASTM A 666, Type 304 stainless steel; Thickness: 0.010 inch; Finish: Smooth; Metal Jacket Bands: 3/8 inch wide; 0.010 inch thick stainless steel.

REVISIONS:	
PLUMBING SPECIFICATIONS	
BURGER KING	
VERSAILLES ROAD	
FRANKFORT, KY 40601	
STORE #	
E-TECH	
CONSULTANTS PLLC	
378 PARK AVENUE, LEXINGTON, KY 40502 (859) 254-4200	
NOV 2 4 2021	
CHARLES W. POPE	
WILLIAM POPE	
& ASSOCIATES	
ARCHITECTURE PLANNING CONSULTING	
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216	
DATE: 11/24/2021	
JOB NO: 44387	
DRAWN BY: STAFF	
SHEET NUMBER:	
9.0	
OF	

FILE NAME: 2022-2-40601
DESCRIPTION: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWN BY: J. POPE
PLOT SCALE: 1"=10'

- J. Continue insulation through walls, sleeves, pipe hangers, and other pipe penetrations. Finish at supports, protrusions, and interruptions. At fire separations, fire stop penetrations to meet local code requirements.
- K. Pipe Exposed in Finished Spaces (less than 10 feet above finished floor): Finish with Aluminum, Stainless Steel, ABS or PVC jacket and fitting covers.

3.03 SCHEDULES

- A. The Contractor may use any of the following insulating materials, at his option, provided the selected material meets with the approval of all State, local authorities and utility company requirements. Verification of compliance of the selected insulating material and thickness with all State and local codes and utility company requirements is the sole responsibility of the installing Contractor.
- B. Plumbing Systems:
- Domestic Hot and Tempered Water Supply and Recirculation:
 - Glass Fiber Insulation: All Pipe: Thickness: 1 inch.
 - Flexible Elastomeric Cellular Foam Insulation: Pipe Size Range: First 8 feet of pipe from fixture, up to 1 1/4 inch: Thickness: 1/2 inch.; All Other Pipe: Thickness: 1 inch.
 - Domestic Cold Water:
 - Glass Fiber Insulation: Pipe Size Range: All Sizes; Thickness: 1/2 inch.
 - Flexible Elastomeric Cellular Foam Insulation: Pipe Size Range: All Sizes; Thickness: 1/2 inch.
 - Cold Condensate Drains:
 - Glass Fiber Insulation: Pipe Size Range: All Sizes; Thickness: 1/2 inch.
 - Flexible Elastomeric Cellular Foam Insulation: Pipe Size Range: All Sizes; Thickness: 1/2 inch.
 - Roof/overflow draining piping:
 - Glass Fiber Insulation: Pipe Size Range: All Sizes; Thickness: 1/2 inch.
 - Flexible Elastomeric Cellular Foam Insulation: Pipe Size Range: All Sizes; Thickness: 1/2 inch.
- F. Other Systems:
- Existing piping in plenum return:
 - Wrap all new and existing storm, sanitary, vent piping and all other combustible material with wrap that meets the following surface Burning Characteristics: Flame spread/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E 84, NFPA 255, UL 723 or as required by local jurisdiction.

SECTION 220720 - PIPING SAFETY COVERS

PART 1 GENERAL

- 1.01 SECTION INCLUDES
- A. Piping Safety Covers.

PART 2 PRODUCTS

- 2.01 MANUFACTURERS
- A. Acceptable Manufacturer: Truebro, Inc.
- 2.02 PIPING INSULATION ACCESSORIES
- A. Provide products that comply with the following: Americans With Disabilities Act (ADA), Article 4.19.4; ANSI/ICC A117.1, American National Standard for Accessible Buildings and Facilities; Requirements of applicable building code.
- B. Piping Safety Covers: Truebro Lay-Guard, Characteristics: Three-piece molded assembly, minimum 1/8 inch wall thickness, with internal ribs to provide air space between piping and piping insulation jacket, molded to receive manufacturer's snap-clip fasteners; Vinyl Material: Impact-resistant and stain-resistant molded closed-cell anti-microbial vinyl compound, UV-stable, non-fading, non yellowing; having the following performance characteristics: Burning Characteristics: 0 seconds Average Time of Burning (ATB), 0 mm Area of Burning (ABF), when tested in accordance with ASTM C 1377; Identification Hardness: 60, minimum, when tested in accordance with ASTM D 2240, using Type A Durometer; Trap Assembly Cover: Three-piece assembly, with removable clean-out nut enclosure; Angle Stop Covers: Formed with hinged cap for access to valve without requiring cover removal; Configurations: In accordance with manufacturer's product data for project piping configurations indicated on Drawings; Color: China White, gloss finish; paintable; Fasteners: Manufacturer's standard re-usable snap-clip fasteners; wire-tie fasteners not permitted

PART 3 EXECUTION

- 3.01 EXAMINATION
- A. Verify that piping configurations are correct type for piping cover component configurations specified.
- 3.02 INSTALLATION
- A. Install products of this section in accordance with manufacturer's printed installation instructions.
- 3.03 PROTECTION OF INSTALLED PRODUCTS
- A. Do not allow damage to installed products by subsequent construction activities; protect products until Substantial Completion. Replace any damaged products prior to occupancy.

END OF SECTION

SECTION 221005 - PLUMBING PIPING

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Pipe, pipe fittings, valves, and connections for piping systems: Sanitary sewer, interior; Sanitary sewer, exterior; Domestic water, interior; Domestic and fire service water, exterior; Storm water, interior; Storm water, exterior; Natural gas, interior.

PART 2 PRODUCTS

- 2.01 The Contractor may use any of the following piping materials, at his option, provided the selected material meets with the approval of all State and local authorities and utility company requirements. Verification of compliance of the selected piping material with local requirements is the sole responsibility of the installing Contractor. Verify the use of plastic piping systems with the local jurisdiction. Non-metallic piping systems may not be used in any return air plenum ceiling spaces. No exceptions.
- 2.02 SANITARY SEWER PIPING, BURIED BEYOND 5 FEET OF BUILDING
- A. Cast Iron Pipe: ASTM A 74 service weight; Fittings: Cast iron; Joint Seals: ASTM C 564 neoprene gaskets, or lead and oakum.
- B. Vitrified Clay Pipe: ASTM C 700, Standard Strength; Fittings: Clay; Joints: Bell-and-spigot, with ASTM C 425 compression joint device.
- C. ABS Pipe: ASTM D 2751, ASTM F 628, ASTM D2661, or ASTM D2751; Fittings: ABS; Joints: Solvent welded with ASTM D 2235 cement.
- 2.03 SANITARY SEWER PIPING, BURIED WITHIN 5 FEET OF BUILDING
- A. Cast Iron Pipe: ASTM A 74 service weight; Fittings: Cast iron; Joints: Hub-and-spigot, CISPI HSN compression type with ASTM C 564 neoprene gaskets
- B. ABS Pipe: ASTM D 2751, ASTM F 628, ASTM D2661, or ASTM D2751; Fittings: ABS; Joints: Solvent welded with ASTM D 2235 cement.
- 2.04 SANITARY SEWER PIPING, ABOVE GRADE
- A. Cast Iron Pipe: ASTM A 74, service weight; Fittings: Cast iron; Joint Seals: ASTM C 564 neoprene gaskets, or lead and oakum.
- B. Cast Iron Pipe: CISPI 301, hubless, service weight; Fittings: Cast iron; Joints: CISPI 310, neoprene gaskets and stainless steel clamp-and-shield assemblies.
- 2.05 WATER PIPING, BURIED BEYOND 5 FEET OF BUILDING
- A. Ductile Iron Pipe: AWWA C151/A21.51; Fittings: AWWA C110, ductile or gray iron, standard thickness; Joints: AWWA C111/A21.11, rubber gasket with 3/4 inch diameter rods.
- B. Copper Pipe: ASTM B 42, hard drawn; Fittings: ASME B16.18, cast copper alloy or ASME B16.22 wrought copper and bronze; Joints: ASTM B 32, alloy Sn95 solder.
- 2.07 WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING
- A. Copper Pipe: ASTM B 42, hard drawn; Fittings: ASME B16.18, cast copper alloy or ASME B16.22 wrought copper and bronze; Joints: ASTM B 32, alloy Sn95 solder.
- B. Ductile Iron Pipe: AWWA C151/A21.51; Fittings: Ductile or gray iron, standard thickness; Joints: AWWA C111/A21.11, rubber gasket with 3/4 inch diameter rods.
- 2.08 WATER PIPING, ABOVE GRADE
- A. Copper Tube: ASTM B 88 (ASTM B 88M), Type L (B), Drawn (H); Fittings: ASME B16.18, cast copper alloy or ASME B16.22, wrought copper and bronze; Fittings: Cast iron, coated; Joints: ASTM B 32, alloy Sn95 solder; Joints: Grooved mechanical couplings.

2.09 STORM WATER PIPING, BURIED BEYOND 5 FEET OF BUILDING

- A. Cast Iron Pipe: ASTM A 74 service weight; Fittings: Cast iron; Joint Seals: ASTM C 564 neoprene gaskets, or lead and oakum.
- B. PVC Pipe: ASTM D 3034 SDR 35; Fittings: PVC; Joints: Push-on, using ASTM F 477 elastomeric gaskets.
- 2.10 STORM WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING
- A. Cast Iron Pipe: ASTM A 74 service weight; Fittings: Cast iron; Joint Seals: ASTM C 564 neoprene gaskets, or lead and oakum.
- B. PVC Pipe: ASTM D 2665, ASTM D 3034, or ASTM F 679; Fittings: PVC; Joints: Push-on, using ASTM F 477 elastomeric gaskets.
- 2.11 STORM WATER PIPING, ABOVE GRADE
- A. Cast Iron Pipe: CISPI 301, hubless, service weight; Fittings: Cast iron; Joints: Neoprene gaskets and stainless steel clamp-and-shield assemblies.
- B. ABS Pipe: ASTM D 2680 or ASTM D 2751; Fittings: ABS; Joints: Solvent welded with ASTM D 2235 cement.
- 2.14 NATURAL GAS PIPING, ABOVE GRADE
- A. Steel Pipe: ASTM A 53/A 53M Schedule 40 black; Fittings: 3" and larger shall be ASME B16.3, malleable iron, or ASTM A 234/A 234M, wrought steel welding type. Threaded fittings may be used on piping 2 1/2" and smaller, except where noted on the drawings or required by code to be welded; Joints: NFPA 54, threaded or welded to ASME B31.1.
- B. Copper Tube: ASTM B 88 (ASTM B 88M), Type K (A) or L (B) annealed; Fittings: ASME B16.26, cast bronze; Joints: Flared.
- 2.18 FLANGES, UNIONS, AND COUPLINGS
- A. Unions for Pipe Sizes 3 Inches and Under: Ferrous pipe: Class 150 malleable iron threaded unions; Copper tube and pipe: Class 150 bronze unions with soldered joints.
- B. Flanges for Pipe Size Over 1 Inch: Ferrous pipe: Class 150 malleable iron threaded or forged steel slip-on flanges; preformed neoprene gaskets; Copper tube and pipe: Class 150 slip-on bronze flanges; preformed neoprene gaskets.
- C. Grooved and Shouldered Pipe End Couplings: Housing: Malleable iron clamps to engage and lock, designed to permit some angular deflection, contraction, and expansion; steel bolts, nuts, and washers; galvanized for galvanized pipe; Sealing gasket: "C" shape composition sealing gasket.
- D. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier.

2.19 PIPE HANGERS AND SUPPORTS

- A. Plumbing Piping: Drain, Waste, and Vent: Conform to MSS SP-58; Hangers for Pipe Sizes 1/2 Inch to 1-1/2 Inches: Malleable iron, adjustable swivel, split ring; Hangers for Pipe Sizes 2 Inches and Over: Carbon steel, adjustable, clevis; Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods; Wall Support for Pipe Sizes 2 to 3 Inches: Cast iron hook; Wall Support for Pipe Sizes 4 Inches and Over: Welded steel bracket and wrought steel clamp; Vertical Support: Steel riser clamp; Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support; Copper Pipe Support: Carbon steel ring, adjustable, copper plated.
- B. Plumbing Piping - Water and Gas: Conform to MSS SP-58; Hangers for Pipe Sizes 1/2 Inch to 1-1/2 Inches: Malleable iron, adjustable swivel, split ring; Hangers for Cold Pipe Sizes 2 Inches and Over: Carbon steel, adjustable, clevis; Hangers for Hot Pipe Sizes 2 Inches to 4 Inches: Carbon steel, adjustable, clevis; Hangers for Hot Pipe Sizes 6 Inches and Over: Adjustable steel yoke, cast iron pipe roll, double hanger; Multiple or Trapeze Hangers: Steel channels with welded supports or spacers and hanger rods; Multiple or Trapeze Hangers for Hot Pipe Sizes 6 Inches and Over: Steel channels with welded supports or spacers and hanger rods, cast iron roll; Wall Support for Pipe Sizes 2 to 3 Inches: Cast iron hook; Wall Support for Pipe Sizes 4 Inches and Over: Welded steel bracket and wrought steel clamp; Floor Support: Steel riser clamp; Floor Support for Cold Pipe: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support; Copper Pipe Support: Carbon steel ring, adjustable, copper plated.

2.20 GATE VALVES (Exterior Utility Service Only)

- A. Manufacturers: Conbraco Industries; Nibco, Inc; Milwaukee Valve Company.
- B. Up To and Including 3 Inches: MSS SP-88, Class 125, bronze body, bronze trim, rising stem, handwheel, inside screw, solid wedge disc, solder or threaded ends. Provide extension to grade and valve box per local jurisdiction and utility company standards. Post-indicator type were used for fire protection service or when indicated on the Drawings.
- C. 2 inches and Larger: MSS SP-70, Class 125, iron body, bronze trim, outside screw and yoke, handwheel, solid wedge disc, flanged ends. Provide extension to grade and valve box per local jurisdiction and utility company standards. Post-indicator type were used for fire protection service or when indicated on the Drawings.

2.22 BALL VALVES

- A. Manufacturers: Conbraco Industries; Nibco, Inc; Milwaukee Valve Company.
- B. Construction: 4 inches and smaller: MSS SP-110, Class 125, CWI, bronze, two piece body, chrome plated brass ball, regular port, teflon seals and stuffing box ring, blow-out proof stem, lever handle, solder or threaded ends.

2.24 BUTTERFLY VALVES

- A. Manufacturers: Hammond Valve; Crane Co; Milwaukee Valve Company.
- B. Construction 1-1/2 inches and Larger: MSS SP-67, 200 psi CWP, cast or ductile iron body, nickel-plated ductile iron disc, resilient replacement EPDM seat, wafer, lug, or grooved ends, extended neck, 10 position lever handle.
- C. Provide gear operators for valves 8 inches and larger, and chain-wheel operators for valves mounted over 8 feet above floor.

2.25 FLOW CONTROLS

- A. Manufacturers: ITT Bell & Gossett; Griswold Controls; Taco, Inc.
- B. Construction: Class 125, Brass or bronze body with union on inlet, temperature and pressure test plug on inlet and outlet.
- C. Calibration: Automatically control flow within 5 percent of selected rating, over operating pressure range of 10 times minimum pressure required for control, maximum minimum pressure 3.5 psi.

2.26 SWING CHECK VALVES

- A. Manufacturers: Hammond Valve; Nibco, Inc; Milwaukee Valve Company.
- B. Up to 3 inches: MSS SP-80, Class 125, bronze body and cap, bronze swing disc with rubber seat, solder or threaded ends.
- C. Over 2 inches: MSS SP-71, Class 125, iron body, bronze swing disc, renewable disc seal and seat, flanged or grooved ends.

2.28 WATER PRESSURE REDUCING VALVES

- A. Manufacturers: Amtrol Inc; Cla-Val Co; Watts Regulator Company.
- B. Up to 2 inches: MSS SP-80, bronze body, stainless steel and thermoplastic internal parts, fabric reinforced diaphragm, strainer, threaded single union ends.
- C. Over 2 inches: MSS SP-85, cast iron body, bronze fitted, elastomeric diaphragm and seat disc, flanged.

2.29 RELIEF VALVES

- A. Pressure Relief: Manufacturers: Cla-Val Co; Henry Technologies; Watts Regulator Company; AGA 221.12 certified, bronze body, teflon seat, steel stem and springs, automatic, direct pressure actuated.
- B. Temperature and Pressure Relief: Manufacturers: Cla-Val Co; Henry Technologies; Watts Regulator Company; AGA 221.2 certified, bronze body, teflon seat, stainless steel stem and springs, automatic, direct pressure actuated, temperature relief maximum 210 degrees F, capacity ASME (BPV IV) certified and labeled.

2.30 STRAINERS

- A. Manufacturers: Armstrong International, Inc; Green Country Filtration; WEA/MCO.
- B. Size 2 inch and Under: Threaded brass body for 175 psi CWP, Y pattern with 1/32 inch stainless steel perforated screen.
2. Class 150, threaded bronze body 300 psi CWP, Y pattern with 1/32 inch stainless steel perforated screen.
- C. Size 1-1/2 inch to 4 inch: Class 125, flanged iron body, Y pattern with 1/16 inch stainless steel perforated screen.
- D. Size 5 inch and Larger: Class 125, flanged iron body, basket pattern with 1/8 inch stainless steel perforated screen.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that excavations are to be required grade, dry, and not over-excavated.

3.02 PREPARATION

- A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.
- B. Remove scale and dirt, on inside and outside, before assembly.
- C. Prepare piping connections to equipment with flanges or unions.

3.03 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Provide non-conducting dielectric connections wherever jointing dissimilar metals.
- C. Route piping in orderly manner and maintain gradient. Route parallel and perpendicular to walls.
- D. Install piping to maintain headroom, conserve space, and not interfere with use of space.
- E. Group piping wherever practical at common elevations.
- F. Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.

- G. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.
- H. Locate all valves and control elements in accessible areas wherever possible to avoid access doors. Provide access where valves and fittings are not exposed or located in accessible areas. Provide ceiling access doors for access to all valves and control elements located above inaccessible ceiling areas. Provide minimum 12 x 12 inch size for hand access, 18 x 18 inch size for shoulder access, and as indicated. Provide 4 x 4 inch for shut of valves only. Provide rated access doors where installed in fire rated construction. Review locations prior to fabrication.
- I. Establish elevations of buried piping outside the building to ensure not less than the maximum local frost depth cover. Install tracer wire on all plastic piping outside the building.
- J. Install vent piping penetrating roofed areas to maintain integrity of roof assembly.
- K. All roofing penetrations shall be flashed and weather sealed by the roofing manufacturer's authorized roofing contractor at this Contractor's expense. This Contractor shall contract with the factory authorized roofing contractor for the specific roofing system applicable to this Project. The use of an unauthorized roofing contractor may result in removal and replacement of the penetration systems at this Contractor's expense.
- L. All sanitary vent system terminations shall be a minimum of ten feet from any fresh air intake and twenty-five feet on medical facilities (hospitals, clinics, etc.)
- M. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welding.
- N. Provide support for utility meters in accordance with requirements of utility companies.
- O. Prepare exposed, unfinished pipe, fittings, supports, and accessories ready for finish painting.
- P. Paint all exterior above grade piping with a minimum of two coats of paint, color to match roof or wall surface to which it is attached; Copper pipe Apply vinyl ethyl primer immediately following cleaning. EXT 5.5A Alkyd; Vinyl Wash Primer MPI #80, Alkyd MPI #8, 9 or 94. Semi-gloss; Steel pipe: Apply alkyd metal primer immediately following cleaning. EXT 5.1D Alkyd; Alkyd Metal Primer MPI #79, Alkyd MPI # 94, semi-gloss; Plastic pipe: Apply alkyd bonding primer immediately following cleaning. EXT 6.8B Alkyd; Bonding Primer MPI #17 or 69, Alkyd MPI #8, 9 or 94.
- Q. Excavate, bedding and backfill shall be in accordance with applicable sections of this Specification.
- R. Pipe vents from gas pressure reducing valves to outdoors and terminate in weather proof hood, unless of the ventless design and approved by the local jurisdiction and the local utility company regulates.
- S. The use of sanitary tee fittings will not be permitted. Utilize wye fittings in lieu of tee fittings for all intersections of drainage piping.
- T. Extend cleanouts to finished floor or wall surface. Lubricate threaded cleanout plugs with mixture of graphite and lined oil. Ensure clearance at cleanout for fire separation required. All penetrations through footings and floors shall be sealed water tight.
- U. Wherever piping is located within 1.5 inches of the nearest edge of studs, joists, rafters or similar members, provide minimum 0.062 inch thick steel protective shield plates extending 2' above and below the pipe being protected. Shield plates may be omitted on cast iron piping only.
- V. Inserts: Provide inserts for placement in concrete formwork; Provide inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams; Provide hooked rod to concrete reinforcement section for inserts carrying pipe over 4 inches; Where concrete slabs form finished ceiling, locate inserts within 12 inches of each horizontal elbow; Use hangers with 1-1/2 inch minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe; Support vertical piping at every other floor. Support riser piping independently of connected horizontal piping. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers; Provide copper plated hangers and supports for copper piping; Prime coat exposed steel hangers and supports. Hangers and supports located in crawl spaces, pipe shafts, and suspended ceiling spaces are not considered exposed. Provide hangers adjacent to motor driven equipment with vibration isolation; Support cast iron drainage piping at every joint.

3.04 APPLICATION

- A. 2 inches and Larger: MSS SP-110, Class 125, iron body, bronze trim, outside screw and yoke, handwheel, solid wedge disc, flanged ends. Provide extension to grade and valve box per local jurisdiction and utility company standards. Post-indicator type were used for fire protection service or when indicated on the Drawings.
- B. 2 inches and Larger: MSS SP-70, Class 125, iron body, bronze trim, outside screw and yoke, handwheel, solid wedge disc, flanged ends. Provide extension to grade and valve box per local jurisdiction and utility company standards. Post-indicator type were used for fire protection service or when indicated on the Drawings.
- C. Install globe, ball, or butterfly valves for throttling, bypass, or manual flow control services.
- D. Provide lug end butterfly valves adjacent to equipment when provided to isolate equipment.
- E. Provide spring loaded check valves on discharge of water pumps.
- F. Provide plug or gas service rated ball valves in natural gas systems for shut-off service.
- G. Provide plug or gas service rated ball valves in propane gas systems for shut-off service.
- H. Provide automatic flow control valves in water recirculating systems where indicated.
- I. Provide spring loaded check valves when located on the discharge of pumps.

3.05 TOLERANCES

- A. Interior Drainage Piping: Establish invert elevations within 1/2 inch vertically of location indicated and slope to drain at minimum of 1/4 inch per foot slope, unless noted otherwise on the Drawings.
- B. Exterior Drainage Piping: Establish invert elevations within 1/2 inch vertically of location indicated and slope to drain at a minimum of 1% grade, unless noted otherwise on the Drawings. Verify all invert elevations prior to commencing work.
- C. Water Piping: Slope at minimum of 1/32 inch per foot and arrange to drain at low points.

3.06 DISINFECTION OF DOMESTIC WATER PIPING SYSTEM

- A. Prior to starting work, verify system is complete, flushed and clean.
- B. Ensure Ph of water to be treated is between 7.4 and 7.6 by adding alkali (caustic soda or soda ash) or acid (hydrochloric).
- C. Inject disinfectant, free chlorine in liquid, powder, tablet or gas form, throughout system to obtain 50 to 80 mg/L residual.
- D. Bleed water from outlets to ensure distribution and test for disinfectant residual at minimum 15 percent of outlets.
- E. Maintain disinfectant in system for 24 hours.
- F. If final disinfectant residual tests less than 25 mg/L, repeat treatment.
- G. Flush disinfectant from system until residual equal to that of incoming water or 1.0 mg/L.
- H. Take samples no sooner than 24 hours after flushing, from 10 percent of outlets and from water entry, and analyze in accordance with AWWA C651.

3.07 SERVICE CONNECTIONS

- A. Provide new sanitary and storm sewer services as indicated on the Drawings. Before commencing work check invert elevations required for sewer connections, confirm inlets and outlets and that there can be properly connected with slope for drainage and cover to avoid freezing. Removal, rework or corrections to sewer services as a result of the Contractor's failure to confirm invert elevations prior to the start of construction, regardless of the information contained on the Drawings, shall be the sole responsibility of the Contractor. Report any discrepancies difficulties to the Engineer prior to the start of construction.
- B. Provide new water service complete with approved reduced pressure backflow preventer and water meter with by-pass valves (where permitted by local authorities), pressure reducing valve (where pressure exceeds 80 psi); Provide sleeve in wall for service main and support at wall with reinforced concrete bridge. Calk enlarged sleeve and make watertight with pliable material. Anchor service main inside to concrete wall; Provide 18 gage galvanized sheet metal sleeve around service main to 2 inches above floor and 3 feet minimum below grade. Size for minimum of 2 inches of loose batt insulation stuffing.
- C. Provide new gas services complete with gas meter and regulators. Gas service distribution piping shall have initial minimum pressure as indicated on the drawings. Provide appropriately sized regulators on each line serving gas appliances, sized in accordance with the manufacturers recommendations based on the sizing parameters indicated on the Drawings. The entire gas service and piping installation shall comply with the local jurisdiction and the regulations of the serving utility.

3.08 SCHEDULES

- A. Pipe Hanger Spacing:
- Metal Piping:
 - Pipe size: 1/2 inches to 1-1/4 inches: Maximum hanger spacing: 6.5 ft; Hanger rod diameter: 3/8 inches.
 - Pipe size: 1-1/2 inches to 2 inches: Maximum hanger spacing: 10 ft; Hanger rod diameter: 3/8 inch.

- c. Pipe size: 2-1/2 inches to 3 inches: Maximum hanger spacing: 10 ft; Hanger rod diameter: 1/2 inch.
- d. Pipe size: 4 inches to 6 inches: Maximum hanger spacing: 10 ft; Hanger rod diameter: 5/8 inch.
2. Plastic Piping:
 - Pipe size: 1/2 inches to 6 inches: Maximum hanger spacing: 6 ft; Hanger rod diameter: 3/8 inch.

END OF SECTION

SECTION 221006 - PLUMBING PIPING SPECIALTIES

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Drains; Cleanouts; Hose bibbs; Hydrants; Backwater valves; Backflow preventers; Water hammer arrestors; Interceptors; Thermostatic mixing valves.

PART 2 PRODUCTS

2.01 BACK WATER VALVES

- A. Manufacturers: Jay R. Smith Manufacturing Company; Savko Plastic Pipe & Fittings, Inc; Zurn Industries.
- B. Cast Iron Back Water Valves: ANSI A112.21.2M; lacquered cast iron body and cover, brass valve, extension sleeve, and access cover.
- C. Plastic Back Water Valves: ABS or PVC body and valve, extension sleeve, and access cover.

2.02 BACKFLOW PREVENTERS

- A. Manufacturers: Conbraco Industries, Watts Regulator Company; Zurn Industries, Inc.

2.03 WATER HAMMER ARRESTORS

- A. Manufacturers: Jay R. Smith Manufacturing Company; Watts Regulator Company; Zurn Industries, Inc.
- B. Water Hammer Arrestors: Stainless steel or copper construction, bellows type sized in accordance with PDI-WH 201, precharged suitable for operation in temperature range 34 to 250 degrees F and maximum 150 psi working pressure.

PART 3 EXECUTION

3.01 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Extend cleanouts to finished floor or wall surface. Lubricate threaded cleanout plugs with mixture of graphite and lined oil. Ensure clearance at cleanout for fire separation required. All penetrations through footings and floors shall be sealed water tight.
- C. Encase exterior cleanouts in concrete flush with grade.
- D. Install floor cleanouts at elevation to accommodate finished floor for a completely flush installation.
- E. Install approved potable water protection devices on plumbing lines where contamination of domestic water may occur; on boiler feed water lines, janitor rooms, fire sprinkler systems, premise isolation, irrigation systems, flush valves, drink mixing stations, interior and exterior hose bibbs and all other locations required by Codes.
- F. Pipe relief from backflow preventer to nearest drain.
- G. Where slab concrete, Where inserts are omitted, drill through concrete from below and provide through-bolt with recessed square steel plate and nut recessed into and grouted flush with slab.

END OF SECTION

SECTION 223000 - PLUMBING EQUIPMENT

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Water Heaters; Commercial gas fired water heaters; Commercial gas fired instantaneous water heaters; Commercial electric water heaters; Electric instantaneous water heaters; Water softeners; Pumps; Circulators; Sewage Ejectors; Sump Pumps; Water pressure booster system.

PART 2 PRODUCTS

2.01 WATER HEATER MANUFACTURERS

- A. A.O. Smith Water Products Co.; Bock Water Heaters, Inc.; Rheem Manufacturing Company; PVI.

2.02 COMMERCIAL GAS FIRED WATER HEATERS

- A. Type: Automatic, natural gas-fired, fuel modulating, tankless.
- B. Performance: Maximum working pressure: 150 psig; Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system.
- C. Tank: Glass or copper lined welded steel ASME labeled when required by code; multiple flue passages; 4 inch diameter inspection port, thermally insulated with minimum 2 inches polyurethane, encased in corrosion-resistant steel jacket, baked-on enamel finish; floor shield and legs.
- D. Accessories: Brass water connections and dip tube, drain valve, magnesium anode, and ASME rated temperature and pressure relief valve and heat trap fittings for hot and cold water connections; Water Connections: Brass; Dip tube: Crosslinked polyethylene (PEX) or brass; Drain Valve; Anode: Magnesium; Temperature and Pressure Relief Valve: ASME labeled.
- E. Certification: As automatic storage water heater and for operation at 180 degrees F (82 degrees C) for operation on combustible floors.
- F. Controls: Automatic water thermostat with temperature range adjustable from 110 to 180 degrees F (43 to 82 degrees C), automatic reset high temperature limiting thermostat factory set at 195 degrees F, gas pressure regulator, multi-ribbed or tubular burner, 100 percent safety shut-off pilot and thermocouple, flue baffle and draft hood.
- 2.03 COMMERCIAL GAS FIRED INSTANTANEOUS WATER HEATERS
- A. Type: Automatic, natural gas-fired, fuel modulating, tankless.
- B. Performance: Maximum working pressure: 150 psig (1000 kPa); Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system.
- C. Accessories: Brass or bronze water connections and waterways, integral flow regulator, and ASME rated temperature and pressure relief valve and heat trap fittings for hot and cold water connections; Water Connections: Brass; Coil: Copper; Burners: Stainless steel.
- D. Certification: As automatic fully modulating tankless water heater and for operation at 180 degrees F (82 degrees C) for operation on combustible floors. Controls: Automatic water thermostat with temperature range adjustable from 110 to 180 degrees F (43 to 82 degrees C), automatic reset high temperature limiting thermostat factory at 195 degrees F (90 degrees C), gas pressure regulator, 100 percent safety shut-off pilot and thermocouple, flue baffle and draft hood.

2.04 COMMERCIAL ELECTRIC WATER HEATERS

- A. Type: Factory-assembled and wired, electric, vertical or horizontal storage as specified.
- B. Performance: Maximum working pressure: 150 psig; Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system.
- C. Electrical Characteristics: As indicated on the Drawings; Verify that proper power supply is available prior to ordering equipment. Verify proper voltage, phase and current rating of power supply and inform Engineer of any deviations prior to order, connection of equipment or start-up. Responsibility for verification of proper power supply voltage and any product returns or damage resulting from incorrect connections shall rest with this Contractor.

- D. Tank: Glass lined or copper lined welded steel; ASME labeled pressure vessel when required by code, 4 inch diameter inspection port, thermally insulated with minimum 2 inches polyurethane encased in corrosion-resistant steel jacket, baked-on enamel finish.
- E. Controls: Automatic immersion water thermostat; externally adjustable temperature range from 60 to 180 degrees F, flanged or screw-in nichrome elements, high temperature limit thermostat.
- F. Accessories: Brass water connections and dip tube, drain valve, magnesium anode, and ASME rated temperature and pressure relief valve and heat trap fittings for hot and cold water connections; Water connections: Brass; Dip tube: Crosslinked polyethylene (PEX) or brass; Drain Valve; Anode: Magnesium; Temperature and Pressure Relief Valve: ASME labeled.
- G. Controls: Ventilated control cabinet, factory-wired with solid state progressive sequencing step controller, fuses, magnetic contactors, control transformer, pilot lights indicating main power and heating steps, control circuit toggle switch, electronic low-water (probe-type) cut-off, high temperature limit thermostat, flush-mounted temperature and pressure gauges.
- H. Heating Elements: Flange-mounted immersion elements; individual elements sheathed with Incoloy corrosion-resistant metal alloy, rated less than 75 Watts per square inch.

2.06 WATER SOFTENERS

- A. Manufacturers: Culligan International Company; Sterling Water Systems, LLC.
- B. Performance: Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system; Electrical Characteristics: As indicated on the Drawings.
- C. Control: Brass control valve cycled to regenerate from one to twelve day period.
- 2.07 IN-LINE CIRCULATOR PUMPS
- A. Manufacturers: Armstrong Pumps Inc; ITT Bell & Gossett; Sterling Fluid Systems; Taco, Inc.
- B. Casing: Bronze, rated for 125 psig working pressure; Impeller: Bronze; Shaft: Alloy steel with integral thrust collar and two oil lubricated bronze sleeve bearings; Seal: Carbon rotating against a stationary ceramic seat; Drive: Flexible coupling.
- C. Performance: Equipment performance and accessories shall be as scheduled on the Drawings and specified herein. Inclusion in both locations is not a prerequisite to inclusion in the Contract. Equipment and accessories specified in either location shall be included in the Contract. Provide all necessary accessories and connections as required for a complete, functional system; Electrical Characteristics: As indicated on the Drawings.
- D. Pumps:
- Ensure shaft length allows sump pumps to be located minimum 24 inches below lowest invert into sump pit and minimum 6 inches clearance from bottom of sump pit.
 - Provide air cock and drain connection on horizontal pump casings.
 - Provide line sized isolating valve and strainer on suction and line sized soft seated check valve and balancing valve on discharge.
 - Decrease from line size with long radius reducing elbows or reducers.
 - Support piping adjacent to pump casings that no weight is carried on pump casings. Provide supports under elbows on pump suction and discharge line sizes 4 inches and over.
 - Ensure pumps operate at specified system fluid temperatures without vapor binding and cavitation, are non-overloading in parallel or individual operation, and operate within 25 percent of midpoint of published maximum efficiency curve.
 - Align and verify alignment of base mounted pumps prior to start-up.
 - Verify that proper power supply is available prior to ordering equipment. Verify proper voltage, phase and current rating of power supply and inform Engineer of any deviations prior to order, connection of equipment or start-up. Responsibility for verification of proper power supply voltage and any product returns or damage resulting from incorrect connections shall rest with this Contractor.
 - Refer to vibration isolation requirements specified in Vibration Isolation section of this Specification.

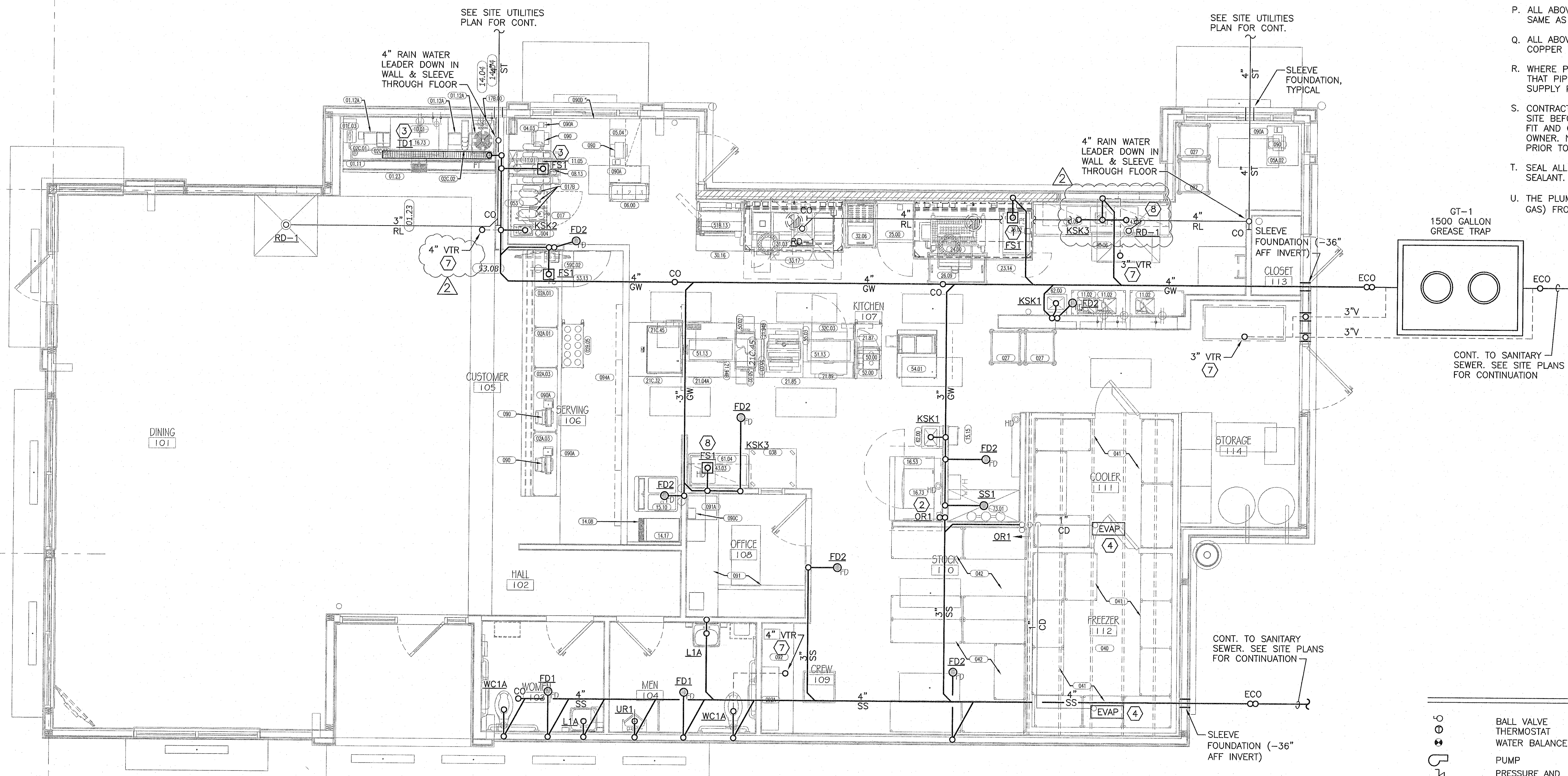
PART 3 EXECUTION

CODED SHEET NOTES:

- 1 PROVIDE HUB AND SPIGOT CAST IRON PIPE FROM CONNECTION TO FLOOR SINK, FS-1, OUTWARD.
- 2 PROVIDE CONDENSATE LINE AND DRAIN LINE FROM ICE MACHINE TO OPEN RECEPTACLE, PROVIDE AIR GAP PER LOCAL CODE.
- 3 PROVIDE WASTE LINES FROM BEVERAGE UNIT TO FS, PROVIDE AIR GAP PER LOCAL CODE.
- 4 PROVIDE 1" PVC OR COPPER FOR CONDENSATE DRAINAGE, DRAIN PROVIDED BY VENDOR. PIPE TO RUN INSIDE WALL AND OUTFALL AT HUB DRAIN (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE). EXPOSED PORTION OF CONDENSATE SHALL BE COPPER. FIELD COORDINATE EXACT LOCATION.
- 5 NOTE NOT USED.
- 6 ENTIRE RUN OF DRAIN LINES TO INLET OF EXTERIOR GREASE INTERCEPTOR AND OUTLET OF INTERCEPTOR TO CONNECTION AT SANITARY MAIN SHALL BE AS SPECIFIED.
- 7 ROUTE SANITARY VENT UP THROUGH ROOF.
- 8 PIPE WASTE LINE(S) FROM SINK INDIRECT TO FLOOR SINK. PROVIDE AIR GAP PER LOCAL CODE.

GENERAL SHEET NOTES

- A. CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- B. CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- C. CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND OWNER.
- D. CONTRACTOR TO COORDINATE ALL NEW WORK SO AS NOT TO DAMAGE ANY NEW EQUIPMENT.
- E. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- F. ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- G. CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- H. THIS CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OPENINGS LEFT BY THE REMOVAL OF EQUIPMENT.
- I. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR PROJECT SCHEDULING AND TIMELINES.
- J. PROVIDE ALL SUBMITTALS AS REQUIRED FOR PERMITTING AND FINAL APPROVAL BY LOCAL BUILDING AND HEALTH DEPARTMENT.
- K. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS TO PROVIDE A COMPLETE SYSTEM.
- L. ALL SILL COCKS TO BE FROST PROOF TYPE.
- M. ALL PLUMBING EQUIPMENT AND INSTALLATION SHALL CONFORM WITH THE KENTUCKY PLUMBING CODE AND SHALL BE INSTALLED BY CERTIFIED LICENSED MASTER PLUMBER.
- N. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR AND OBTAINING ALL PERMITS.
- O. ALL UNDERSLAB SANITARY SEWER PIPING SHALL BE SCH 40 PVC ASTM DMB4-TB WITH SOLVENT WELDED JOINTS ASTM D2865-89. OWNER SHALL COORDINATE LOCATION AND INSTALLATION AND ROUTING WITH APPROVAL BY PLUMBING INSPECTOR. THIS SYSTEM TO TIE TO THE CITY SEWER MAIN.
- P. ALL ABOVE SLAB SANITARY SOIL WASTE AND VENT PIPING SHALL BE THE SAME AS THAT SPECIFIED ABOVE.
- Q. ALL ABOVE SLAB DOMESTIC HOT AND COLD WATER PIPING SHALL BE COPPER TYPE K.
- R. WHERE PIPING IS INSTALLED IN OUTSIDE WALLS CONTRACTOR SHALL ENSURE THAT PIPING IS INSTALLED INSIDE BUILDING WALL INSULATION. NO WATER SUPPLY PIPING SHALL BE INSTALLED WHERE IT CAN FREEZE.
- S. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- T. SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- U. THE PLUMBER IS RESPONSIBLE FOR ALL SERVICE LINES (WATER, SEWER, GAS) FROM THE METER AND TAPS TO THE BUILDING.



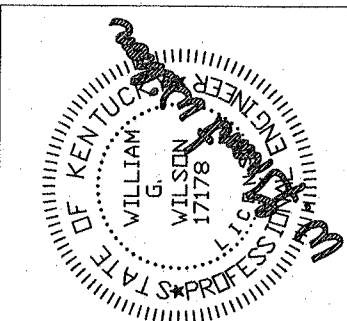
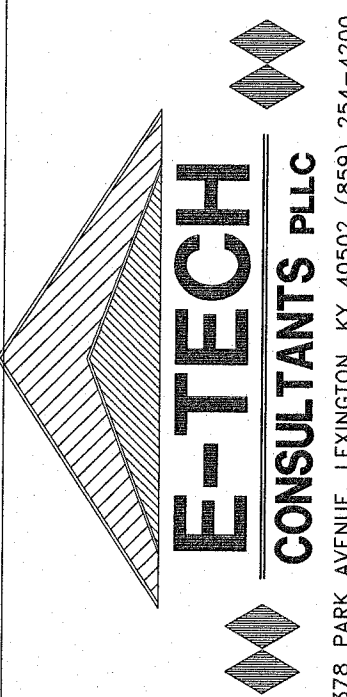
SHEET LEGEND

BALL VALVE	LS-1	LAB SINK
THERMOSTAT	AS-1	ART SINK
WATER BALANCE VALVE	KS-1	KITCHEN SINK
PUMP	MS-1	MOP SINK
PRESSURE AND TEMPERATURE VALVE	EWC-1A	ELECTRIC WATER COOLER
UNION	ET-1	SPLIT LEVEL (ADA HEIGHT)
WALL HYDRANT (FREEZELESS)	DI	EXPANSION TANK
HOSE BIBB		GATE VALVE
FLOOR DRAIN		WASTE LINE
HOT WATER HEATER		VENT LINE
CLEAN OUT (FLOOR)		HOT WATER
EXTERIOR CLEAN OUT		COLD WATER
LAVATORY		HOT WATER RECIRC. LINE
LAVATORY (ADA HEIGHT)		GAS LINE
URINAL		COPPER CONDENSATE DRAIN
WATER CLOSET		STORM WATER LINE
WATER CLOSET (ADA HEIGHT)		

REVISIONS:

WASTE PIPING PLAN

BURGER KING
STORE # Versailles Road
Frankfort, KY 40601



REV#1 1/10/2022
REV#2 2/3/2022

Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX. 78216

DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

9.2

CODED SHEET NOTES: ①

- 1" GAS UP TO ROOFTOP UNIT. PROVIDE DIRT LEG, GAS COCK, AND UNION AT UNIT CONNECTION. REFER TO PLUMBING ROOF PLAN FOR CONTINUATION.
- 1" GAS DOWN TO WATER HEATER WITH VALVE AND DIRT LEG.
- 3/4" HOT AND COLD WATER DOWN IN WALL TO PREP SINK.
- (2) 3/4" HOT AND COLD WATER DOWN IN WALL TO THREE COMPARTMENT SINK.
- PROVIDE HOT WATER CIRCULATING PUMP, FIELD COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT.
- 1/2" CW AND HW DOWN IN WALL TO LAVATORY, ROUTE HW THROUGH MV-1 FOR TEMPERED WATER. COORDINATE EXACT PLACEMENT OF MIXING VALVE. PROVIDE ACCESS PANEL IF CONCEALED IN WALL OR ABOVE GYPSUM.
- PROVIDE 3/4" GAS TO COOKING EQUIPMENT. PROVIDE DIRT LEG, GAS COCK, AND FLEXIBLE HOSE KIT FOR CONNECTION TO COOKING EQUIPMENT.
- PROVIDE ACCESSIBLE NATURAL GAS SHUT-OFF VALVE. FIELD COORDINATE EXACT LOCATION.
- PROVIDE ACCESSIBLE GAS SOLENOID SHUT-OFF VALVE. CONTROLS WIRED THROUGH HOOD SUPPRESSION SYSTEM.
- BAG-IN-BOX SODA/DRINK SYSTEM: PROVIDE WATER FILTER FOR FILTERED WATER TO SODA DISPENSER. COORDINATE FILTER TYPE WITH KITCHEN EQUIPMENT VENDOR. FIELD COORDINATE EXACT LOCATION. PROVIDE RPZ BACKFLOW DEVICE FOR SODA CARBONATION EQUIPMENT AS REQUIRED PER LOCAL CODE. REFER TO PLUMBING FIXTURE SCHEDULE.









- PROVIDE WATER CONNECTION TO COFFEE BREWING STATION AND TEA BREWER. PROVIDE BACKFLOW DEVICE FOR SODA EQUIPMENT AS REQUIRED PER CODE. DEVICE SHALL CONFORM TO ASSE 1022. REFER TO PLUMBING FIXTURE SCHEDULE.
- PROVIDE SODA LINES SLEEVE FROM DRINK STATION TO BAG-IN-BOX. ROUTE OVERHEAD AND DOWN WALL BEHIND DRINK DISPENSERS. COORDINATE EXACT SIZE AND ROUTING OF SLEEVE WITH OWNER/ARCHITECT AND KITCHEN EQUIPMENT SUPPLIER.
- MULTIPLE HEAD DRINK BEVERAGE DISPENSER; PROVIDE BACKFLOW DEVICE FOR SODA EQUIPMENT AS REQUIRED PER CODE. DEVICE SHALL CONFORM TO ASSE 1022. REFER TO PLUMBING FIXTURE SCHEDULE.
- PROVIDE 3/4" RPZ BACKFLOW PREVENTER AND SIL COCK FOR CHEMICAL TREATMENT SYSTEM. REFER TO PLUMBING FIXTURE SCHEDULE.
- PROVIDE FILTERED WATER DROP WITH 1/4 TURN SHUT OFF VALVE FOR OWNER'S EQUIPMENT. PROVIDE BACKFLOW PROTECTION AS REQUIRED PER CODE.
- GAS PRESSURE REGULATOR. SEE SCHEDULE ON SHEET 9.4. INSTALL PER MANUFACTURER'S INSTRUCTION.
- PROVIDE AND INSTALL RPZ BEFORE WATER FILTER SYSTEM.

GENERAL SHEET NOTES

- CONTRACTOR TO BE RESPONSIBLE FOR ALL FINAL DIMENSIONS.
- CONTRACTOR SHALL NOT CUT ANY BUILDING STRUCTURAL MEMBER WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- CONTRACTOR TO COORDINATE WORK SCHEDULE WITH OTHER TRADES AND OWNER.
- CONTRACTOR TO COORDINATE ALL NEW WORK SO AS NOT TO DAMAGE ANY NEW EQUIPMENT.
- CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT PRIOR TO INSTALLING SAME.
- ALL WORK AREAS TO BE CLEANED AT THE END OF EACH WORK DAY.
- CONTRACTOR TO COORDINATE ALL PIPING, ELECTRICAL CONDUIT, DUCTWORK, ROOF OPENINGS, AND EQUIPMENT PLACEMENT AND OTHER WORK WITHIN ALL TRADES.
- THIS CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OPENINGS LEFT BY THE REMOVAL OF EQUIPMENT.
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- PROVIDE ALL SUBMITTALS AS REQUIRED FOR PERMITTING AND FINAL APPROVAL BY LOCAL BUILDING AND HEALTH DEPARTMENT.
- ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS TO PROVIDE A COMPLETE SYSTEM.
- ALL SILL COCKS TO BE FROST PROOF TYPE.
- ALL PLUMBING EQUIPMENT AND INSTALLATION SHALL CONFORM WITH THE KENTUCKY PLUMBING CODE AND SHALL BE INSTALLED BY CERTIFIED LICENSED MASTER PLUMBER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYING FOR AND OBTAINING ALL PERMITS.
- ALL UNDERSLAB SANITARY SEWER PIPING SHALL BE SCH 40 PVC ASTM DMB4-TB WITH SOLVENT WELDED JOINTS ASTM D2665-69. OWNER SHALL COORDINATE LOCATION AND INSTALLATION AND ROUTING WITH APPROVAL BY PLUMBING INSPECTOR. THIS SYSTEM TO TIE TO THE CITY SEWER MAIN.
- ALL ABOVE SLAB SANITARY SOIL WASTE AND VENT PIPING SHALL BE THE SAME AS THAT SPECIFIED ABOVE.
- ALL ABOVE SLAB DOMESTIC HOT AND COLD WATER PIPING SHALL BE COPPER TYPE K.
- WHERE PIPING IS INSTALLED IN OUTSIDE WALLS CONTRACTOR SHALL ENSURE THAT PIPING IS INSTALLED INSIDE BUILDING WALL INSULATION. NO WATER SUPPLY PIPING SHALL BE INSTALLED WHERE IT CAN FREEZE.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE BEFORE COMMENCING ANY PHASE OF THE WORK. ADJUSTMENTS FOR FIT AND COORDINATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER. NOTIFY ENGINEER OF ANY CONFLICTS, DISCREPANCIES OR OMISSIONS PRIOR TO COMMENCEMENT OF THE CONTRACT WORK.
- SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS WITH UL LISTED FIRE SEALANT.
- THE PLUMBER IS RESPONSIBLE FOR ALL SERVICE LINES (WATER, SEWER, GAS) FROM THE METER AND TAPS TO THE BUILDING.

- NOTE:
- A REDUCED PRESSURE ZONE ASSEMBLY (RPZ) BACKFLOW PREVENTION DEVICE REQUIRED TO BE INSTALLED AT EACH INDIVIDUAL PLUMBING DEVICE OR APPLIANCE SUCH AS ICE MACHINES, CARBONATION SYSTEM, WATER FILTER SYSTEM, AND ALL DRINK DISPENSERS PER KY PLUMBING CODES, INCLUDING TEA AND COFFEE BREWER/MAKER SYSTEMS.
 - NO WATER LINES SHALL BE INSTALLED IN CORNERS.

SHEET LEGEND

	BALL VALVE	LS-1	LAB SINK
	THERMOSTAT	AS-1	ART SINK
	WATER BALANCE VALVE	KS-1	KITCHEN SINK
	PUMP	MS-1	MOP SINK
	PRESSURE AND TEMPERATURE VALVE	EW-1A	ELECTRIC WATER COOLER
	UNION	ET-1	SPLIT LEVEL (ADA HEIGHT)
	WALL HYDRANT (FREEZELESS)		EXPANSION TANK
FWH	HOSE BIBB	_____	GATE VALVE
HB-1	FLOOR DRAIN	_____	WASTE LINE
FD-1	HOT WATER HEATER	_____	VENT LINE
WH-1	CLEAN OUT (FLOOR)	_____	HOT WATER
CO	EXTERIOR CLEAN OUT	_____	COLD WATER
ECO	LAVATORY	_____	HOT WATER RECIRC. LINE
L-1	LAVATORY (ADA HEIGHT)	— G — G —	GAS LINE
L-1A	URINAL	— CD — CD —	COPPER CONDENSATE DRAIN
UR-1	WATER CLOSET	— ST — ST —	STORM WATER LINE
WC-1	WATER CLOSET (ADA HEIGHT)		
WC-1A			

A WATER & GAS PIPING PLAN
9.3 SCALE: 1/4" = 1'-0"

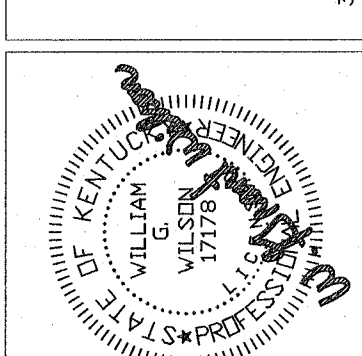
REVISIONS:

WATER & GAS PIPING PLAN

BURGER KING
STORE #
Versailles Road
Frankfort, KY 40601



E-TECH
CONSULTANTS PLLC
378 PARK AVENUE, LEXINGTON, KY 40502 (859) 254-4200



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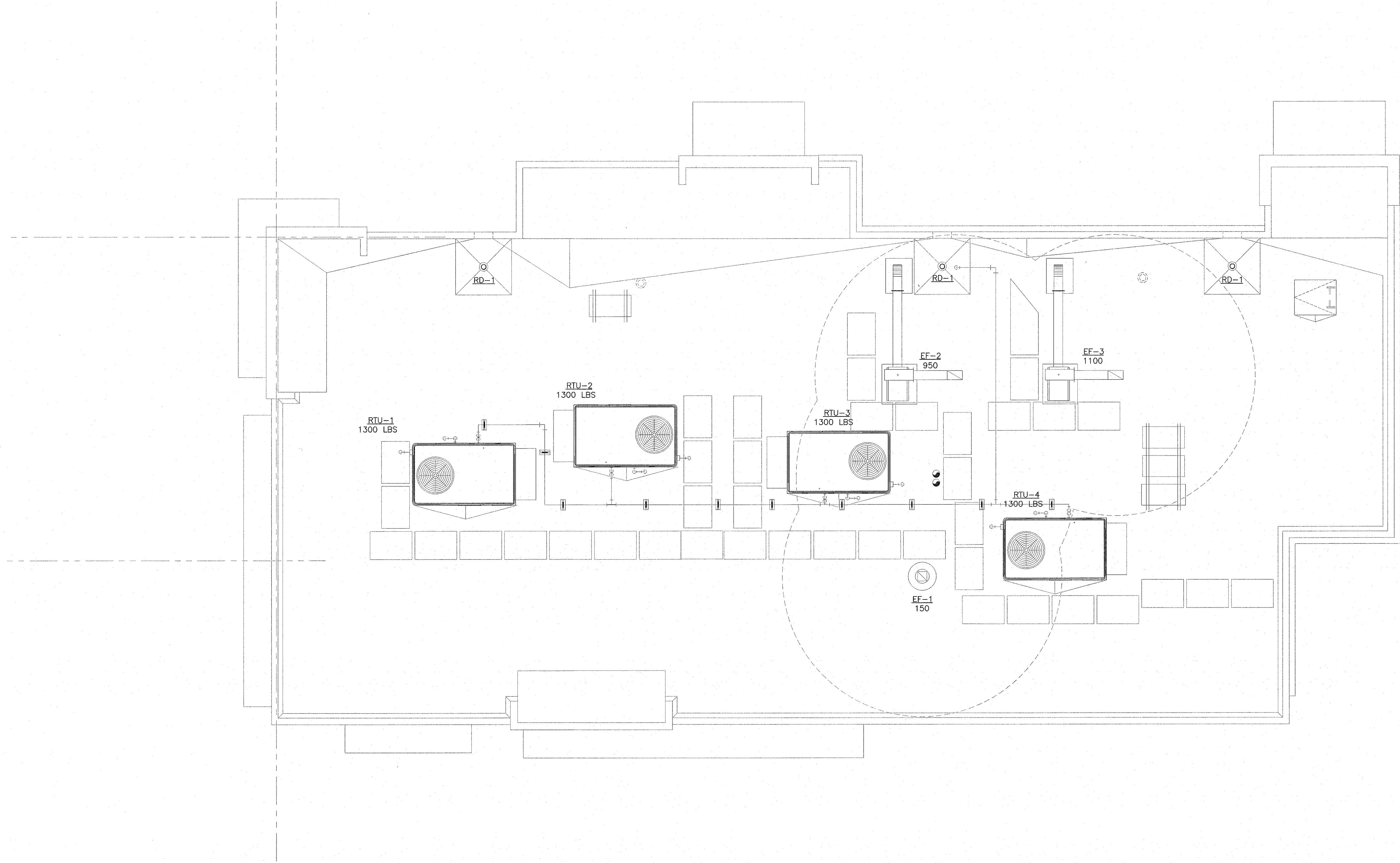
Charles William Pope & Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 251, SAN ANTONIO, TX 78216

DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

9.3

OF

FILE NAME:
DESCRIPTION: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWN BY: JAC
PLOT SCALE:

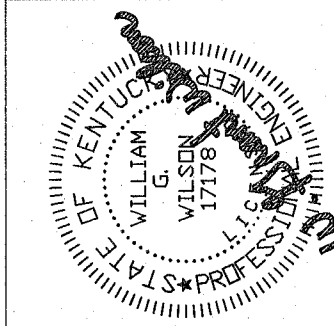


A PLUMBING ROOF PLAN
9.4 SCALE: 1/4" = 1'-0"

DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

9.4

Charles William Pope
& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216



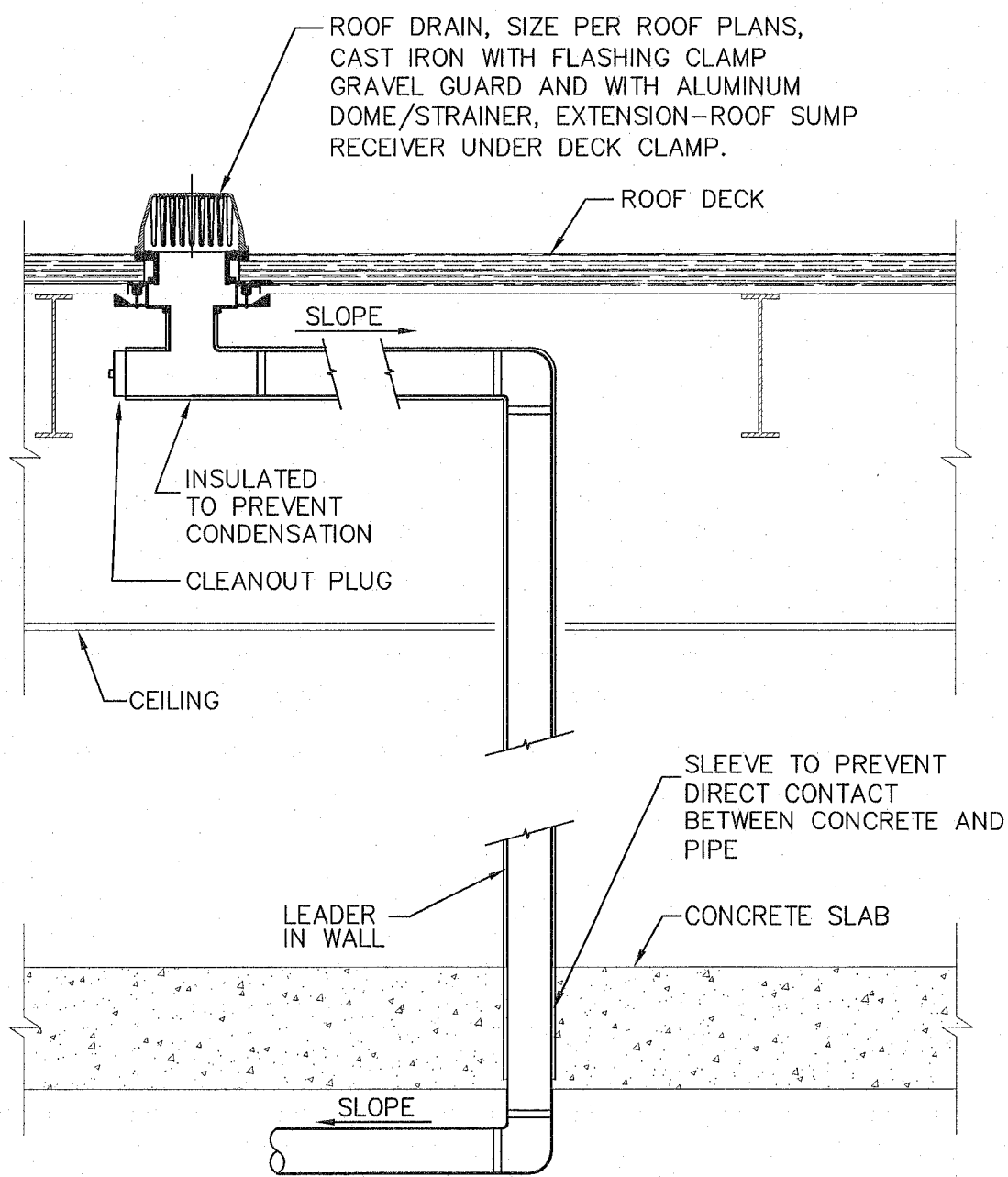
E-TECH
CONSULTANTS PLLC
378 PARK AVENUE, LEXINGTON, KY 40502 (859) 254-4200

PLUMBING ROOF PLAN
BURGER KING
STORE # Versailles Road
Frankfort, KY 40601

REVISIONS:

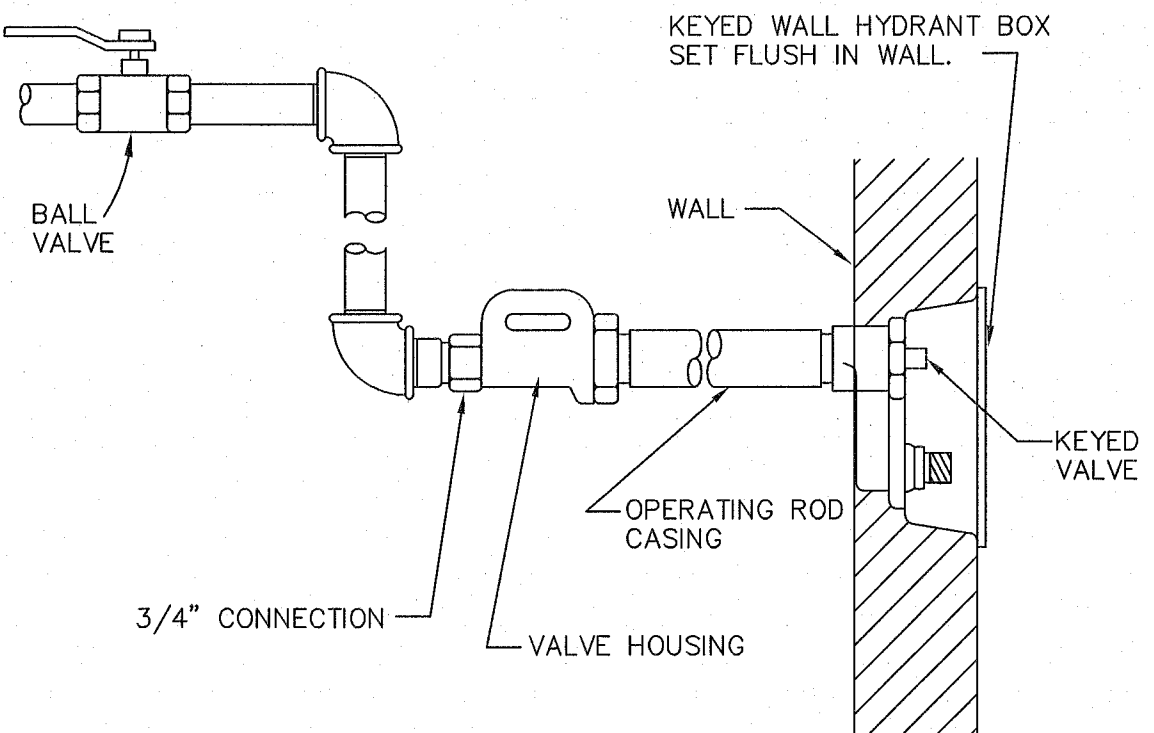
PLUMBING FIXTURE & PLUMBING SPECIALTIES SCHEDULE								
MARK	MFR & MODEL	TYPE	TRIM	SUPPLY	DRAIN	COLOR	MOUNTING	MISC.
BFP	WATTS LF909-QT-S	REDUCED PRESSURE		LINE SIZED				PROVIDE AIR GAP FITTING RELIEF TO FLOOR DRAIN
CO	ZURN ZN-1400-VP	INTERIOR CLEANOUT			LINE SIZE	NICKLE-BRONZE	FLOOR	ADJUSTABLE FLOOR CLEANOUT WITH V.P. SCREWS
ECO	ZURN Z-1402-VP	HEAVY DUTY CLEANOUT EXTERIOR			LINE SIZE	CAST IRON	GROUND	PROVIDE TWO FOR 2-WAY W/ 18"x18"x6" CONCRETE SUPPORTING PAD AND VANDAL-PROOF SCREWS
ET-1	STATE ETC-7	EXPANSION TANK		3/4" MPT			PIPE	7.27 GALLON CAPACITY W/ STOP VALVE
FD-1	ZURN MODEL ZN-415-7B-DP-VP	4" DRAIN	ZURN Z-1022 TRAP PRIMER SUPPLY	1/2" IPS C.W.	4"	NICKLE-BRONZE	FLOOR	4" DIA. MEDIUM DUTY TOP AND VANDAL PROOF DECORATIVE TOP
FD-2	ZURN MODEL ZN-415-7B-DP-VP	4" DRAIN	ZURN Z-1022 TRAP PRIMER SUPPLY	1/2" IPS C.W.	4"	NICKLE-BRONZE	FLOOR	4" DIA. MEDIUM DUTY TOP AND VANDAL PROOF DECORATIVE TOP
FS-1	IMC/TEDDY FDSS-1212-SG	FLOOR SINK	ZURN Z-1022 TRAP PRIMER SUPPLY	1/2" IPS C.W.	3"	STAINLESS STEEL	FLOOR	12x12 SANI-FLOOR RECEPTOR, 4" SUMP DEPTH, SUBWAY GRATING
FWH	WOODFORD B65	FREEZELESS WALL HYDRANT		3/4" IPS C.W.		POLISHED BRASS	WALL, RECESSED	INTEGRAL ANTI-SIPHON BACKFLOW PREVENTER
GT-1	OLDCASTLE PRECAST 8660GT-1500-BAFF	1500 GALLON GREASE TRAP	LARGE CAPACITY 100 GPM FLOW RATE	1000 LBS GREASE CAPACITY		LOCKABLE HATCH		8"x8"x6" GREASE TRAP W/ SINGLE BAFFLE, 4" INLET & 4" OUTLET PROVIDE FLOW CONTROL, VENT PER PLUMBING CODE. SCHIER DOUBLE GB-250-TDP SERIES EQUAL
HB	HOSE BIBB WOODFORD B26-1/2	HOSE BIBB		1/2" IPS C.W.		POLISHED BRASS	WALL, RECESSED	CHROME FINISH MOUNT 18" AFF
IWH	RINNAI R94LSI	TANKLESS GAS WATER HEATER	3/4" GAS (199 MBH) 3/4" CWS 3/4" HWS	1" COND. DRAIN			WALL	VENTING PER IMC. P&T RELIEF VALVE TO DRAIN OR PER PLUMBING CODE. 9.4 GPM
KSK1	BY KEC	KITCHEN HAND WASH SINK 17"x15"	SPLASH MOUNTED GOOSENECK INCLUDED	3/8" SPS CW & HW W/ STOPS	1 1/2" P-TRAP	20 GAUGE STAINLESS STEEL	WALL W/ CARRIER	DRAIN W/ STRAINER PLATE, 6" WRISTBLADE HANDLES, 14"x10" BOWL
KSK2	BY KEC	PRE-RINSE KITCHEN SINK	REGENCY #600PRSF12LL PRE-RINSE SPRAY FAUCET	3/8" SPS CW & HW W/ STOPS	2" P-TRAP	16 GAUGE STAINLESS STEEL	FLOOR STAND	ATTACH TO DISHWASHING, 44" FLEXIBLE HOSE, 1.15 GPM SPRAY VALVE. CHROME-PLATED BRASS, ADD ON FAUCET
KSK3	BY KEC	3 COMPARTMENT SS SINK- W/ DRAINBOARDS	REGENCY 600FA12 FAUCET & REGENCY 600FPRS8 HOSE	3/8" SPS CW & HW W/ STOPS	2" P-TRAP	16 GAUGE STAINLESS STEEL	FLOOR STAND	REGENCY TWIST WASTE VALVE 600DT1, 88"x25.5" SINK W/ (3) 16"x20"x12" BOWLS & (2) 18" DRAINBOARDS
L-1A	KOHLER K-2005	V.C. LAVATORY (ADA)	SYMMONS S-20-2-G-LP	3/8" SPS W/ LOOSE KEY STOPS	1 1/4" P-TRAP	WHITE	WALL W/ CONCEALED ARM	INSULATE TRAP & SUPPLIES W/ TRUEBRO TRAP WRAP PROTECTIVE KIT. SLOAN BACK CHECKS ON FLOW CONTROL.
SS-1	CUSTOM MOP SINK	SERVICE SINK SEE PLANS FOR SIZE	FIAT 830-AA FAUCET AND 832-AA HOSE BRACKET	3/4" IPS CW & HW	3" P-TRAP	STAINLESS STEEL	FLOOR	SS DOME & LIFT STRAINER 899CC MOP HANGER, 24" HIGH SS WALL SKIRTS FULL LENGTH & WIDTH
OR-1	ZURN Z415E	ROUND STRAINER W/ FUNNEL			4"		FLOOR	4" DIAMETER, INTEGRAL FUNNEL
RD-1	ZURN ZC-100-R	15" ROOF DRAIN			LINE SIZED	CAST IRON W/ FLASHING CLAMP & GRAVEL GUARD	ROOF	EXTENSION ROOF SUMP RECEIVER UNDER DECK CLAMP
RP-1	BELL & GOSSETT NBF-18S	RECIRCULATION PUMP 150 PSI, MAX				BRONZE PUMP BODY		BELL & GOSSETT #AQ-3/4 AQUASTAT, #TC-1 TIME CLOCK
TD-1	ZURN MODEL ZB83-SW-ET-1 U2-DB	6" WIDE S.S. LINEAR DRAIN			2"	STAINLESS STEEL	FLOOR	(2) E1, (1) U2, ENDCAPS & 2" BOTTOM OUTLET
TP-1	ZURN MODEL Z-1022	AUTOMATIC TRAP PRIMER			1/2" IPS C.W.			MOUNT 12" MINIMUM TO HORIZONTAL PIPE AT NEAREST FIXTURE
UR-1	KOHLER K5016-ET	V.C. URINAL	SLOAN 8186MC SENSOR	3/4" IPS CW	2"	WHITE	WALL W/ CARRIER	MOUNT 22" AFF TO LIP
WC-1	KOHLER K-96057	V.C. WATER CLOSET FLOOR OUTLET	SLOAN 8111MC SENSOR W/ MANUAL PUSH BUTTONS	1" IPS C.W.	4"	WHITE	FLOOR	SEAT KOHLER K-4731-CA WHITE
WC-1A	KOHLER K-96057	V.C. WATER CLOSET (ADA) FLOOR OUTLET	SLOAN 8111MC SENSOR W/ MANUAL PUSH BUTTONS	1" IPS C.W.	4"	WHITE	FLOOR	SEAT KOHLER K-4731-CA WHITE, MOUNT RIM 18" AFF
WCO	ZURN MODEL Z-1446	WALL CLEANOUT			LINE SIZE	STAINLESS STEEL	WALL	STAINLESS STEEL COVER PLATE
WHA	ZURN MODEL Z1700-100	WATER HAMMER ARRESTOR		3/4"		STAINLESS STEEL	PIPE	WITH STOP VALVE

NOTE: ALL EXPOSED PLUMBING SHALL BE METAL, NO PVC.



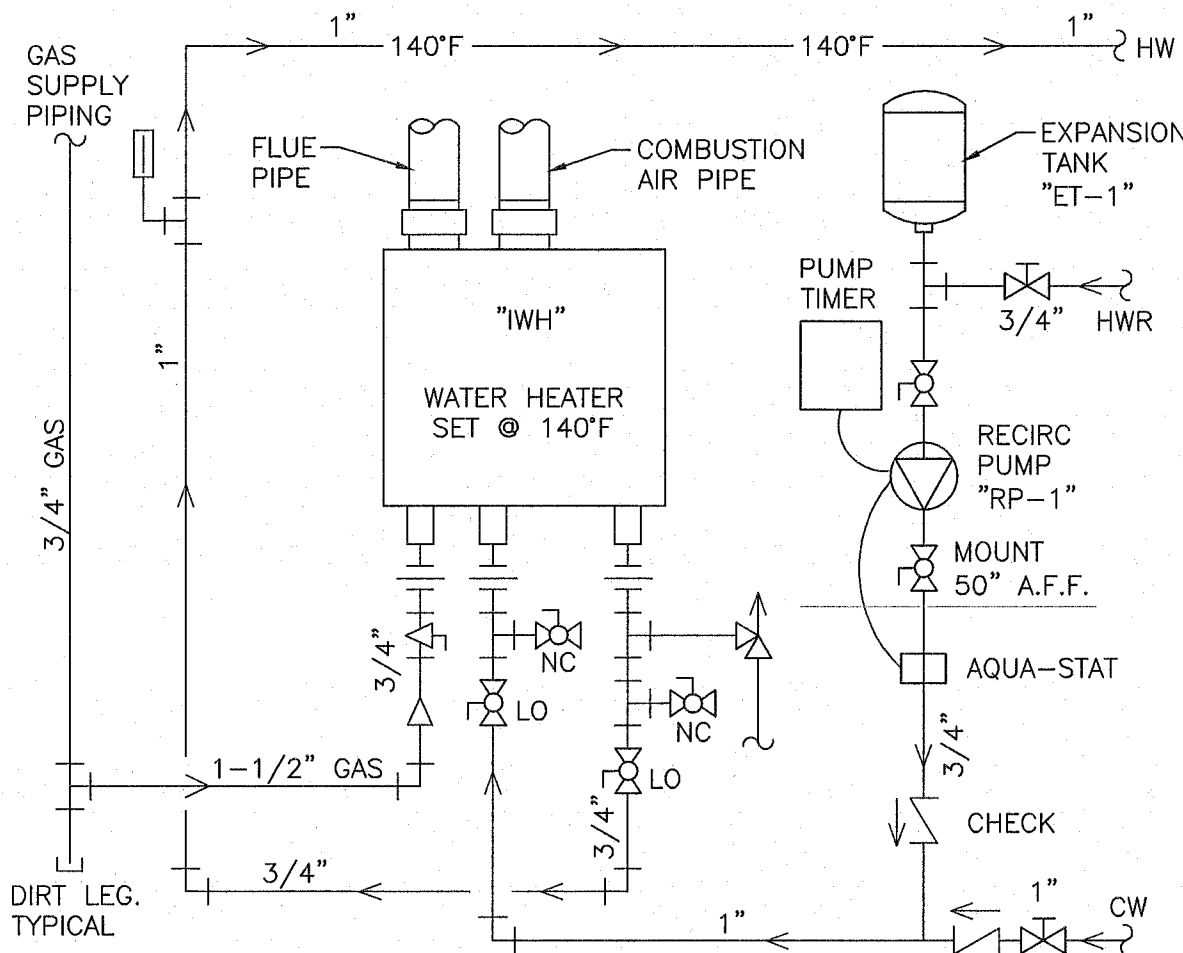
ROOF DRAIN & LEADER DETAIL

SCALE: N.T.S.



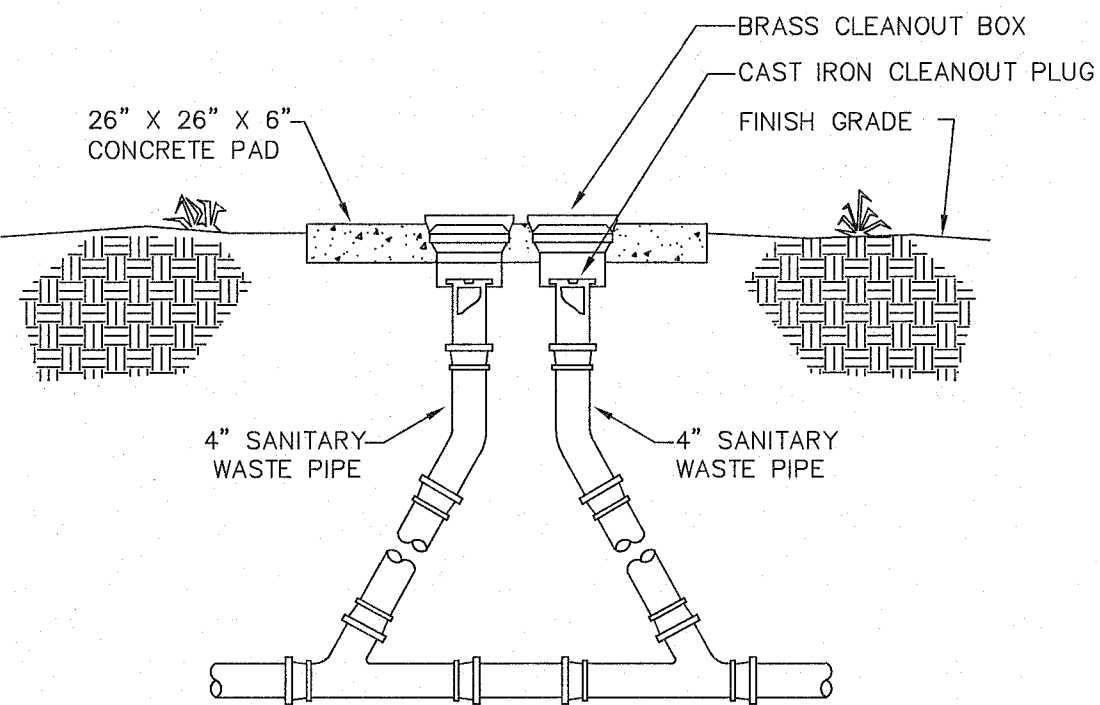
FREEZEPROOF WALL HYDRANT DETAIL

SCALE: N.T.S.



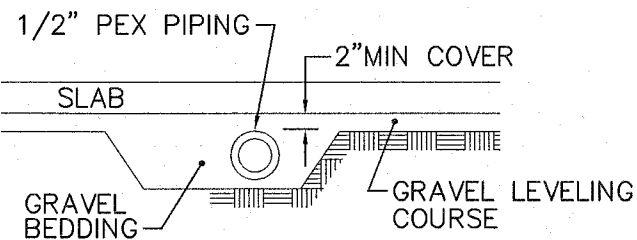
GAS WATER HEATER DETAIL

SCALE: N.T.S.



TWO-WAY EXTERIOR CLEANOUT DETAIL

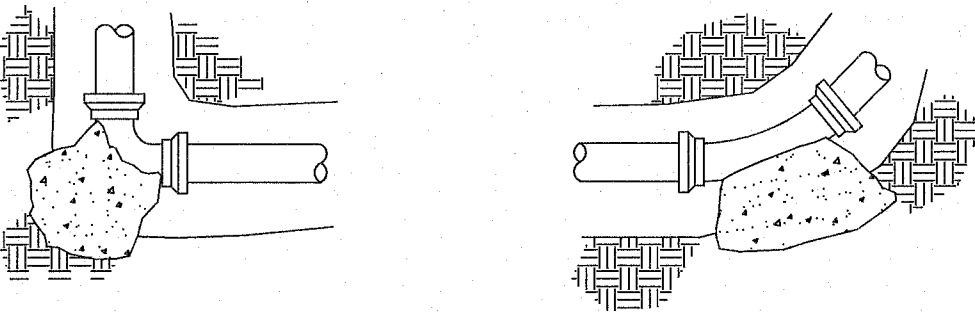
SCALE: N.T.S.



UNDER SLAB TRAP PRIMER PIPING

SCALE: N.T.S.

NOTE:
1. TO BE USED ONLY FOR UNDER SLAB PIPING FOR TRAP PRIMER INSTALLATION.

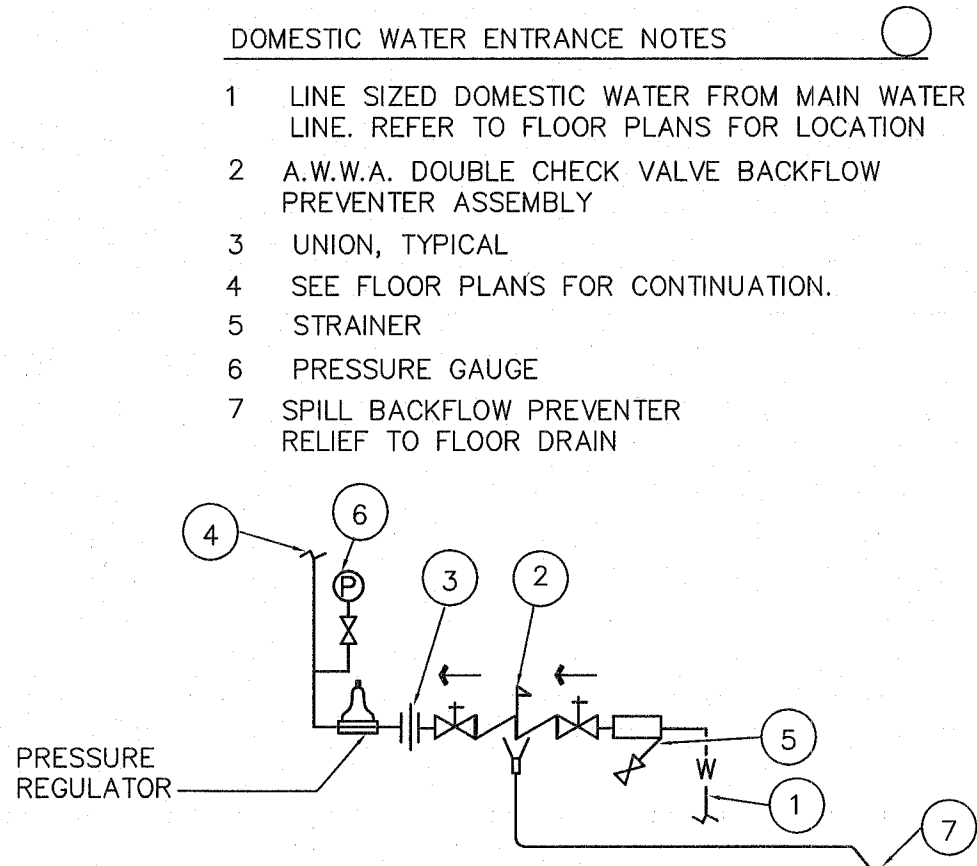


NOTES:

1. BLOCKING SHALL BE 2,500 PSI CONCRETE (MINIMUM) AND BE PLACED AGAINST UNDISTURBED EARTH, TYPICAL.
2. WRAP 4 MIL. PLASTIC AROUND ALL FITTING BOLTS PRIOR TO PLACING CONCRETE BLOCKING.
3. REFER TO PLAN VIEWS FOR PIPE SIZES.

THRUST BLOCK DETAILS

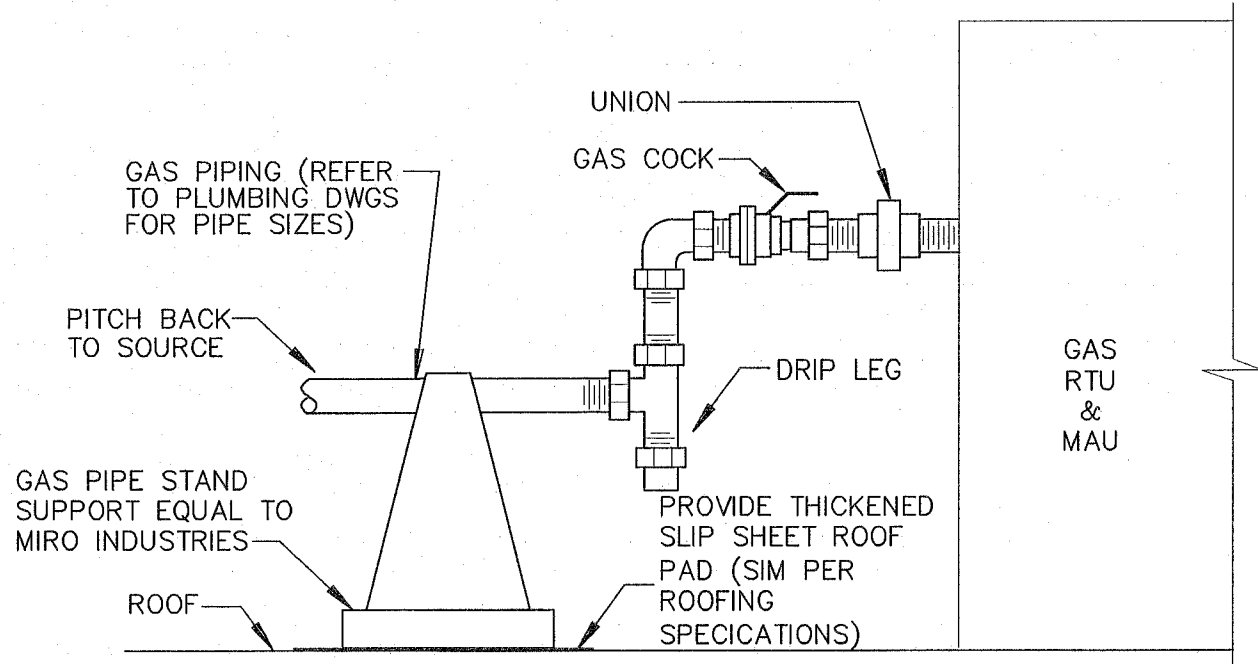
SCALE: N.T.S.



DOMESTIC WATER ENTRANCE DETAIL

NO SCALE

MECHANICAL AND PLUMBING PIPE & INSULATION SCHEDULE				
PIPE & INSULATION	INTERIOR BELOW GRADE	INTERIOR ABOVE FLOOR	EXTERIOR WITHIN 5' OF BUILDING	EXTERIOR, BURIED
DOMESTIC COLD WATER, HOT WATER, & HOT WATER RECIRCULATION PIPING 3/4" ARMAFLEX EXTERIOR WRAP ON PIPING	SOFT COPPER: ASTM B 88 TYPE K HARD COPPER: ASTM B88 TYPE K	HARD COPPER: ASTM B88 TYPE L	SOFT COPPER: ASTM B 88 TYPE K HARD COPPER: ASTM B88 TYPE K	SOFT COPPER: ASTM B 88 TYPE K
SANITARY SEWER	PVC PLASTIC: ASTM D 2665 SCH 40	PVC PLASTIC: ASTM D 2665 SCH 40	PVC PLASTIC: ASTM D 2665 SCH 40	PVC PLASTIC: ASTM D 2665 SCH 40
KITCHEN GREASE WASTE SEWER	CAST IRON PIPE, CISPI - 310 HUBLESS, SERVICE WEIGHT, NEOPRENE GASKETS, STAINLESS STEEL CLAMPS & SHIELDS	CAST IRON PIPE, CISPI - 310 HUBLESS, SERVICE WEIGHT, NEOPRENE GASKETS, STAINLESS STEEL CLAMPS & SHIELDS	CAST IRON PIPE, CISPI - 310 HUBLESS, SERVICE WEIGHT, NEOPRENE GASKETS, STAINLESS STEEL CLAMPS & SHIELDS	CAST IRON PIPE, CISPI - 310 HUBLESS, SERVICE WEIGHT, NEOPRENE GASKETS, STAINLESS STEEL CLAMPS & SHIELDS
NATURAL GAS & PROPANE PIPE (PIPE 3" AND LARGER TO BE WELDED)	BLACK STEEL: ASTM 53 OR ASTM 106 SCH 40	BLACK STEEL: ASTM 53 OR ASTM 106 SCH 40	THERMOPLASTIC: ASTM D2513	THERMOPLASTIC: ASTM D2513
CONDENSATE PIPING 3/4" ARMAFLEX EXTERIOR WRAP ON PIPING		HARD COPPER: ASTM B88 TYPE L INSULATED PVC PLASTIC: SCH 40 INSULATED		
ROOF DRAIN PIPING 3/4" ARMAFLEX EXTERIOR WRAP ON PIPING	PVC PLASTIC: SCHEDULE 40	PVC PLASTIC: SCH 40 INSULATED		

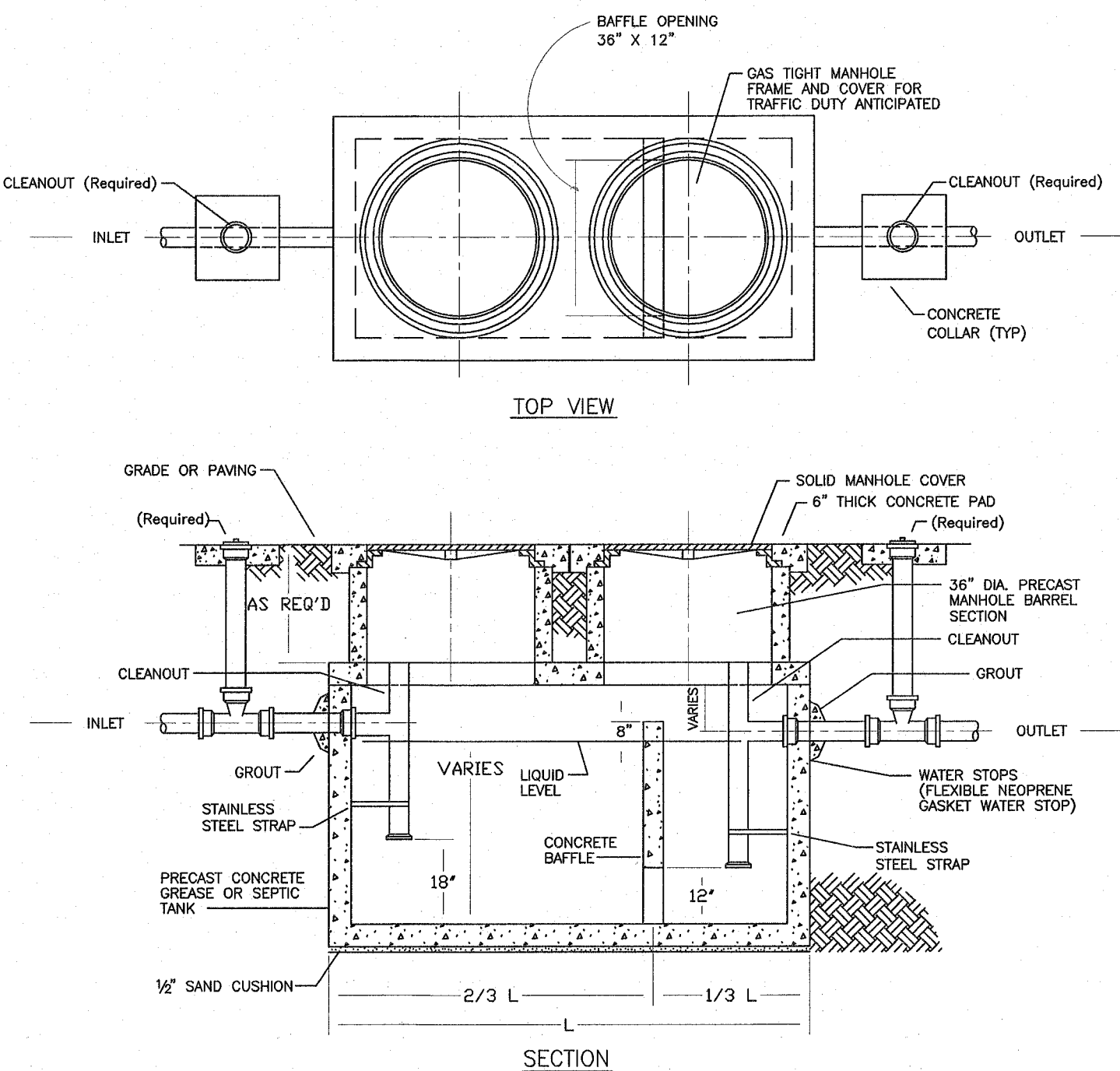


GAS PIPE STANDS & ROOF EQUIPMENT GAS CONNECTION DETAIL

SCALE: N.T.S.

GENERAL NOTES:

1. THIS STRUCTURE IS TO BE ACCESSIBLE FOR MAINTENANCE OR INSPECTION WITH COVERS AND CLEANOUTS BROUGHT TO GRADE.
2. DESIGN CRITERIA SHALL BE HS-20 LOADING.
3. FLOW TO THE INTERCEPTOR SHALL EXCLUDE SANITARY SEWAGE AND SURFACE DRAINAGE.
4. DESIGN AND CAPACITY OF GREASE INTERCEPTOR TO BE CERTIFIED BY ENGINEER IN ACCORD WITH KENTUCKY STATE PLUMBING CODE AND REVIEWED FOR CAPACITY BY THE DIVISION OF ENGINEERING PRIOR TO CONSTRUCTION.
5. MULTIPLE COMPARTMENT INTERCEPTORS ARE REQUIRED.
6. PIPE CLEANOUT TEE SHALL BE THE SAME SIZE AS THE PIPE AND BE WITHIN 6" OF THE GREASE INTERCEPTOR ON THE OUTLET LINE.
7. MANUFACTURER WILL PROVIDE GREASE TRAP WITH TWO(2) ACCESS POINTS AS SHOWN. PLUMBING CONTRACTOR TO INSTALL FIXTURES AS SHOWN.
8. THE MINIMUM CAPACITY OF INTERCEPTORS IS 1500 GALLONS.



1500 GALLON GREASE TRAP DETAIL

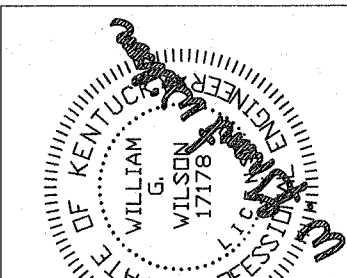
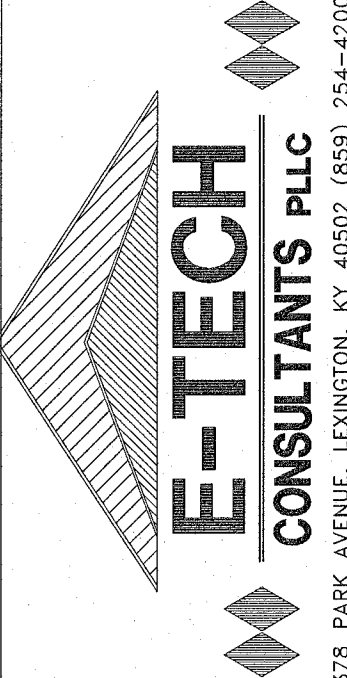
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REVISIONS:

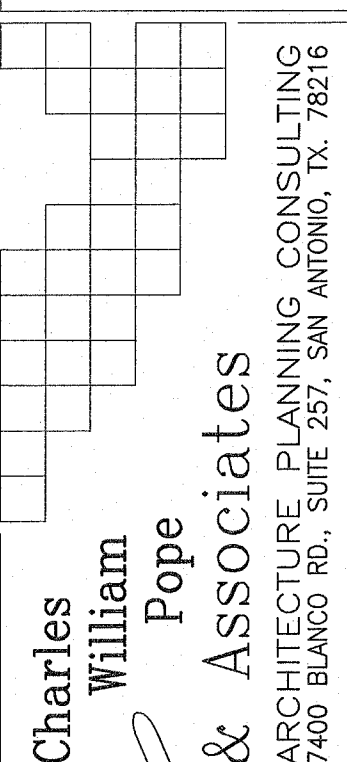
PLUMBING SCHEDULES & DETAILS

BURGER KING

STORE # Versailles Road
Frankfort, KY 40601



NOV 24 2021



DATE: 11/24/2021
JOB NO: 44387
DRAWN BY: STAFF
SHEET NUMBER:

9.5

OF



SCALE: N.T.S.

- 1 GAS PIPING SIZED FOR THE TOTAL CONNECTED LOAD $\pm 25\%$ FROM REGULATOR TO FARTHEST CONNECTION, 0.6 SPECIFIC GRAVITY, 0.3" PRESSURE LOSS.
- 2 GAS PIPING SHALL BE BLACK STEEL OR AS PERMITTED BY CODE.
- 3 GAS PIPING CONNECTIONS SHALL BE THREADED UNLESS OTHERWISE REQUIRED BY CODE.
- 4 EXTERIOR GAS PIPING AT REGULATOR SHALL RECEIVE ONE COAT EACH OF A RUST AND WEATHER RESISTANT PRIMER AND TOP COAT. COLOR SHALL BE LIGHT GREY, VERIFY WITH ARCHITECT.
- 5 ALL GAS BURNING EQUIPMENT SHALL BE INSTALLED PER NFPA #54.



SCALE: N.T.S.



SCALE: N.T.S.

- A. GREASE TRAP REQUIRED IF FACILITY IS LICENSED FOR FOOD SERVICE.
- B. ALL PLUMBING MUST CONFORM TO THE KY STATE PLUMBING CODE.
- C. HUB DRAINS AND/OR OPEN RECEPTACLES ARE TO BE ARRANGED SO THAT THE OPENING SHALL BE AT LEAST 1 INCH (1") ABOVE THE FINISHED FLOOR, FOR INDIRECT HOOD-UPS ONLY.
- D. UNDERGROUND WASTE PIPE INSTALLED BENEATH A CONCRETE SLAB SHALL NOT BE LESS THAN TWO (2) INCHES IN DIAMETER.
- E. SINKS USED FOR FOOD PREPARATION ONLY CAN DISCHARGE INTO A FLOOR SINK. FLOOR SINKS SHALL BE ARRANGED SO THAT THEY HAVE A 1" UP ABOVE THE FINISHED FLOOR.

FEB 03 2022

REV#1	1/10/2022
REV#2	2/3/2022

Charles
William
Pope
& Associates

ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD. SUITE 257, SAN ANTONIO, TX 78216

DATE:	11/24/2021
JOB NO:	44387
DRAWN BY:	STAFF
SHEET NUMBER:	

9.6

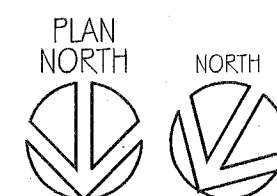
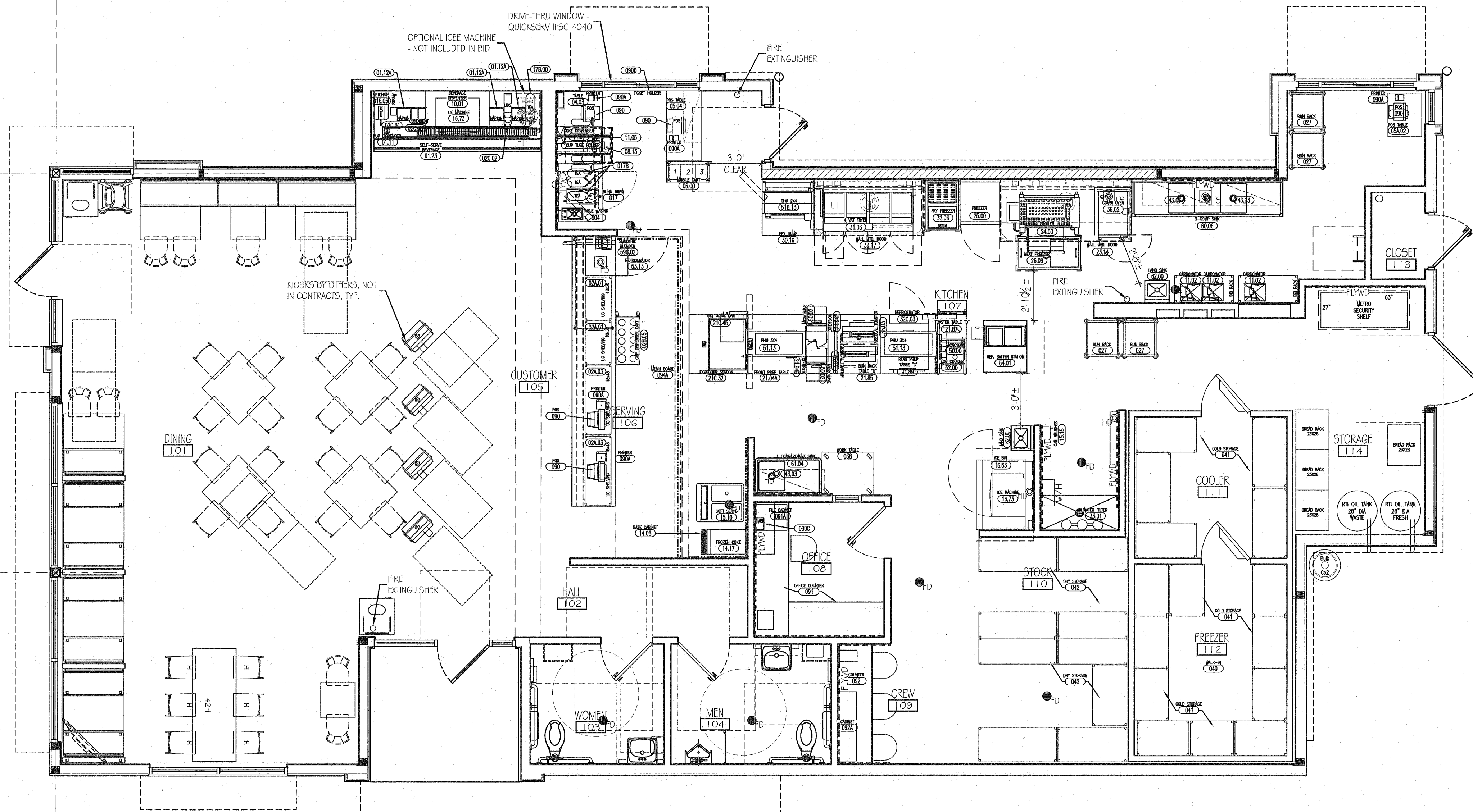
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DESCRIPTION: BURGER KING - Versailles Road, Frankfort, KY 40601
DRAWING SCALE: 1/4" = 1'-0"
PLOT SCALE: 40

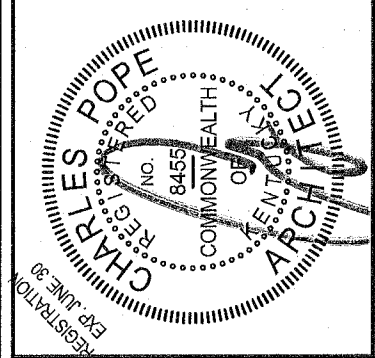
1 EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

SEE FINAL/APPROVED EQUIPMENT PLANS BY
EQUIPMENT VENDOR FOR FINAL EQUIPMENT
LAYOUT & SCHEDULE

SEE FINAL/APPROVED DECOR PLANS BY
DECOR VENDOR FOR FINAL FINISHES & DECOR



NOV 18 2021



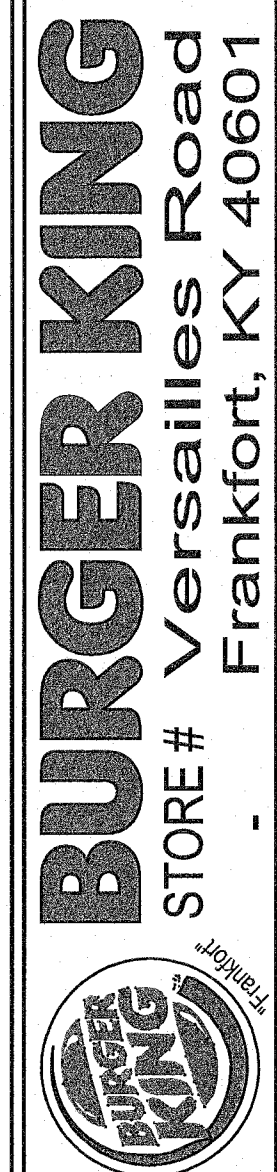
Charles William Pope
& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11.18.21
JOB NO: 44387
DRAWN BY: [Signature]
SHEET NUMBER:

10.1

OF

EQUIPMENT PLAN



REVISIONS:

EQUIPMENT SCHEDULE				
ITEM#	QTY	DESCRIPTION	MANUFACTURER	MODEL NO.
01.11	1	CUP DISPENSER, GOURMET EZ FIT PORTION	SAN JAMAR	SJ-C2010C-BK
01.12A	3	LICORICE XPRESS STAND NAKPIN DISPENSER	TORK	POL-6332000-BK
01.23	1	BK BEVERAGE COUNTER, 9'-8"	H&K	52375-1
01E.03	1	DISPENSER, KETCHUP COUNTERTOP (BK)	SERVER	SER-EC007500
02A.01	2	TWO TIER UNDER COUNTER SHELVING	INTERMETRO	I830NK3
02A.03	2	TWO TIER UNDER COUNTER SHELVING	INTERMETRO	I848NK3
02B.05	1	BK CUP DISPENSER CART	H&K	52507
02C.01	1	BK STRAW HOLDER	H&K	52201
02C.02	1	BK LID ORGANIZER S-M-L	H&K	52200
02C.03	1	BK UNIVERSAL CONDIMENT DISPENSER	H&K	52014
03.01	1	HAND SINK FOR DR-THRU TABLE	STAINLESS	P-5-113
04.03	1	BK 24 IN POS DT TABLE W/O CASH DRAWER	H&K	52169
04.21	1	BK 40 IN DRIVE THRU TABLE W/ SINK CUT OUT	H&K	52460
05.04	1	WORK STATION, DRIVE THRU 48"	INTERMETRO	BKROC2448DT
05A.02	1	30" X 24" CASHIER CABINET	H&K	52241
06.00	1	CART, BEVERAGE STATION DRIVE THRU 1-2-3	INTERMETRO	INM-BKBC1430
08.13	1	WALL MOUNTED CUP TUBE HOLDER	H&K	52948
10.01	1	12 V SODA SYSTEM W/ICE	LANCER CORP.	LAN-85-4563-H123
11.01	1	SODA SYSTEM, DROP IN 8V W/ICE	LANCER CORP.	85-2378T-00
11.02	3	CARBONATOR	LANCER CORP.	85-1923-00
11.05	1	STAND 25X25 FOR 8-V MACHINE	LANCER CORP.	LAN-840058-BK (LAN-84-1005)
14.08	1	BASE CABINET, 3-BRL	BY OWNER	-
14.17	1	FROZEN COKE MACHINE	BY OWNER	-
15.10	1	SHAKE & SOFT SERVE (3PH)	TAYLOR	C632-D
15.15	1	S/S CABINET BRUSHES	H&K	8047
16.18	1	ICE MACHINE CHASE	H&K	B2M342
16.53	1	ICE BIN, 710 LB CAPACITY	MANITOWOC	D-970
16.73	2	ICE MACHINE 1425LB	MANITOWOC	IY-F1400C
17.00	1	COFFEE/TEA BREWER	BUNN	ITCB
17B.00	4	TEA DISPENSER	BUNN	TDO-N-3.5
21.04A	1	FRONT PREP TABLE "A" (60") 8-PAN	H&K	52616-11A
21.85	1	BK MIDDLE PREP TABLE (BUN RACK)	H&K	52332-10
21.87	1	BK MOBILE TOASTER TABLE 20IN	H&K	52290-10
21.89	1	BK REAR PREP TABLE (REFRIG UNDERCOUNTER) 5 PANS	H&K	52419-10
21.94B	2	SHELF EXTENSION FOR 2 ANA-OC24	H&K	54017
21C.32	1	BK EXPEDITER STATION	H&K	52622
21C.45	1	BK BEVERAGE REFRIGERATOR-SLIME LINE	H&K	52614-2

SEE FINAL/APPROVED EQUIPMENT PLANS BY
EQUIPMENT VENDOR FOR FINAL EQUIPMENT
LAYOUT & SCHEDULE

EQUIPMENT SCHEDULE				
ITEM#	QTY	DESCRIPTION	MANUFACTURER	MODEL NO.
23.14	1	7-7" BROILER/OVEN HOOD ROC STORES	H&K	52415-1
24.00	1	BROILER	DUKE	FBB-NO-120
25.00	1	FREEZER, REACH-IN LH	TRUE	T23F-2-MC
26.09	1	BK MEAT FREEZER 44"	H&K	52472-2
30.16	1	UNIVERSAL FRY DUMP STATION S/SNEXT GENERATION	H&K	52382-6E
31.03	1	4 VAT FRYER	FRYMASTER	4FQG30U
32.06	1	BK FRY FREEZER W/FRY BASKET HOLDER	H&K	52474-2
32C.03	1	UNDERCOUNTER REFRIG	SILVER KING	SK-RS/SUS10
33.17	1	6'-4" FRYER ROC WALL HUNG HOOD	H&K	52440-1
36.02	1	COMBI OVEN STEAMER ELECTRIC	BLODGETT	BLCT-6E
38.00	1	36X30IN MOBILE WORK TABLE	H&K	52209
40.08	1	WALK-IN COOLER/FREEZER	KOLPAK	CUSTOM
41.03	2	24Wx36L WIRE SHELF 4 TIER	INTERMETRO	INM-2436NK3
41.04	2	24Wx42L WIRE SHELF 4 TIER	INTERMETRO	INM-2442NK3
41.05	1	24Wx48L WIRE SHELF 4 TIER	INTERMETRO	INM-2448NK3
41.06	1	24Wx54L WIRE SHELF 4 TIER	INTERMETRO	INM-2454NK3
41.39	1	BOWTIE DUNNAGE RACK 22x30	INTERMETRO	HP2230PDMB
41.40	8	BOWTIE DUNNAGE RACK 22x36	INTERMETRO	HP2236PDMB
42.05	3	24Wx48L WIRE SHELF 4 TIER DRY STORAGE	INTERMETRO	INM-2448NC
42.14	3	24Wx60L WIRE SHELF 4 TIER DRY STORAGE	INTERMETRO	INM-2460NC
42.16	2	18Wx60L WIRE SHELF 4 TIER DRY STORAGE	INTERMETRO	INM-1860NC
42.23	2	18Wx48L WIRE SHELF 4 TIER DRY STORAGE	INTERMETRO	INM-1848NC
43.00	1	SHELVING SMART WALL	INTERMETRO	BKSWP8446DL
43.03	1	SHELVING SMART WALL	INTERMETRO	BKSWP8446DL
50.00	1	MICROWAVE OVEN	AMANA	HDC18SD
50.02	2	MICROWAVE OVEN	AMANA	AOC24
51.13	2	PHU - 3X4	DUKE	HS2-34200672R
51B.13	1	PHU - 2X4	DUKE	HS2-242004T1R
52.00	1	EGG COOKER	ROUND UP	ES-1200
53.13	1	REFRIG. UNDERCOUNTER	TURBO AIR	MUR-28-N
54.01	1	REFRIGERATED CHICKEN BATTER STATION	H&K	52976
55.03	2	VERTICAL CONTACT TOASTER	ANTUNES	BKT-2V
59C.02	1	SMOOTHIE BLENDER	HAMILTON	HHH755
60.06	1	BK 3-COMPARTMENT SINK 105"	H&K	52019-1
61.04	1	BK 1-COMPARTMENT SINK W/LH DRN BOARD, 46"	H&K	52015X
62.00	2	HAND SINK	JOHN BOOS	PBH5-H-KVMB-1
73.01	1	WATER FILTER	SELECTO	SEL-80-6202

EQUIPMENT SCHEDULE												
ITEM #	QTY	DESCRIPTION	SUPPLIED BY	INSTALLED BY	VOLTS/ PHASE	AMPS	WATER	DRAIN	GAS	BTU	NOTES	
001	2	(1) 26" & (1) 44" SELF-SERVE DRINK BAR	K.E.S.	K.E.S.				0'-1'			2ND CHASE REQUIRED FOR SQUARE PROTOTYPE	
001A	1	5'-3/4" x 11'-3/4" SERVICE CHASE	K.E.S.	K.E.S.								
002A	1	UNDERCOUNTER SHELVING	K.E.S.	K.E.S.								
002B	1	MOBILE CUP DISPENSING CART	K.E.S.	K.E.S.								
002C	1	4 COMPARTMENT, COUNTERTOP CONDIMENT DISPENSER	K.E.S.	K.E.S.								
002D	2	LID DISPENSER	K.E.S.	K.E.S.								
002E	1	WIRE BOTTLE RACK	K.E.S.	K.E.S.								
002F	1	WIRE RACK CUP-LID HOLDER	K.E.S.	K.E.S.								
003	1	24"x30" TABLE WITH CUP DISPENSER	K.E.S.	K.E.S.								
004	1	43"x30" TABLE WITH HAND SINK	K.E.S.	G.C.			1/2 H&C	1-1/2"				
005	1	METRO 2436 POS TABLE	K.E.S.	K.E.S.								
005A	1	24"x30" P.O.S. TABLE	K.E.S.	K.E.S.								
006	1	METRO 14x30 MOBILE ASSEMBLY CART	K.E.S.	K.E.S.								
010	1	"FREE STYLE" COKE DISPENSER (SELF-SERVE)	K.E.S.	K.E.S.	115-1	6	1/2 C	3/4 I.D.			WITH CORD AND PLUG	
010A	2	WATER BOOSTER	K.E.S.	K.E.S.	115-1	6.2					WITH CORD AND PLUG	
011	1	"FREE STYLE" COKE DISPENSER (CREW)	K.E.S.	K.E.S.	115-1	5.3	1/2 C	3/4 I.D.			WITH CORD AND PLUG, "WATER THRU SODA LINE"	
013	0	BEVERAGE-AIR UCR-20 UNDER COUNTER REFRIGERATOR (OPTIONAL)	K.E.S.	K.E.S.	115-1	3.0					WITH CORD AND PLUG	
014	1	LANCER 550 FROZEN COKE MACHINE	K.E.S.	K.E.S.	208/230-1	27						
015	1	TAYLOR C632 SHAKE/SOFT SERVE MACHINE	K.E.S.	K.E.S.	208/230-3	15 / 20					TWO DEDICATED CONNECTIONS.	
016	1	ICE STORAGE BIN	K.E.S.	K.E.S.				3/4 I.D.			WITH CORD AND PLUG (REMOTE CONDENSER)	
016A	1	ICE CUBER	K.E.S.	K.E.S.	208/230-3	15	1/2					
016B	1	SERVICE CHASE FOR REFRIG. LINES	K.E.S.	K.E.S.								
017	1	BUNN ITCB COFFEE-TEA BREWER	K.E.S.	K.E.S.	200-1	17.5	1/2 F					
017A	2	BUNN TF COFFEE SERVER	K.E.S.	K.E.S.								
017B	3	ICED TEA DISPENSER	K.E.S.	K.E.S.								
020	1	41" EXPEDITOR SANDWICH STATION -S/S	K.E.S.	K.E.S.	120-1	16						
021	1	51" PREP MODULE	K.E.S.	K.E.S.	120/208-3	150					150 MLO LOAD CENTER BY K.E.S. (HEATED SURFACES BOTH SIDES)	
021A	1	MODULE 'A' - PRIMARY SANDWICH STATION	K.E.S.	K.E.S.								
021B	1	MODULE 'B' - BUN TOASTING	K.E.S.	K.E.S.								
021C	1	MODULE 'C' - SECONDARY SANDWICH STA.	K.E.S.	K.E.S.								
021D	1	MODULE 'D' - BREAKFAST	K.E.S.	K.E.S.								
021E	1	DISPLAY DEVICES: (1) KITCHEN MINDER (1) KITCHEN MINDER GRADE (2) DRIVE-THROUGH TIMERS (1) STOCK LEVEL LIGHT (1) CLOCK	K.E.S.	G.C.	115-1	1.5					KITCHEN MINDER TO BE LOCATED ON MAIN PREP BOARD, FACING FRYERS (ON PHU). KITCHEN MINDER GRADE, DRIVE-THROUGH TIMERS, LEVEL LIGHT AND CLOCK TO BE CEILING MOUNTED. CENTER DEVICES ON MAIN PREP BOARD, OVER TOASTERS, FACING SERVICE COUNTER.	
023A	1	(1) BROILER HOOD (7'-7") (1) EXHAUST FAN (1) ROOF CURB	K.E.S.	G.C.	208-1	5					ACCESS "DESIGNWITHBK" FOR ADDITIONAL HOOD OPTIONS	
023B	2	FIRE PROTECTION SYSTEM MANUAL PULL STATION	K.E.S.	G.C.								
024	1	BROILER - DUKE MODEL FBB NAT. GAS	K.E.S.	K.E.S.	120-1	2			3/4	95,000		
025	1	50" MEAT FREEZER DEEP WELL CABINET SILVER KING SKMW50/C2	K.E.S.	K.E.S.	120-1	6.9					WITH PLUG/CORD (RECEPT. IN HOOD)	
027	6	BUN RACK	K.E.S.	K.E.S.								
030	1	FRY HOLD STATION 37"W x 36"D (FAFS)	K.E.S.	K.E.S.	120-1	21					WITH CORD AND PLUG	
031	1	PITCO 4-BANK FRYER BKSSH554FD	K.E.S.	K.E.S.	115-1	0.7 EA			3/4 EA	80,000 EA	WITH CORD AND PLUG	
031B	2	SHORTENING DISPOSAL CADDY SYSTEM	K.E.S.	K.E.S.								
032	1	PRODUCT HOLDING FREEZER	K.E.S.	K.E.S.	115-1	1/3 HP					WITH CORD AND PLUG (DUPLEX RECEPTACLE AT 90° A.F.F.)	
033A	1	(1) FRYER HOOD (6'-7") (1) EXHAUST FAN (1) ROOF CURB	K.E.S.	G.C.	208-1	5					ACCESS "DESIGNWITHBK" FOR ADDITIONAL HOOD OPTIONS	
036	1	MINI-COMBI OVEN STEAMER, MANITOWOC NS6102083L/CBK1	K.E.S.	K.E.S.	208-3	17.9A	3/4" CF	3/4" I.D.				
036A	1	OVEN STAND, MANITOWOC CST610MOB	K.E.S.	K.E.S.								
038	1	42"Lx30"D MOBILE WORK TABLE	K.E.S.	K.E.S.								
040	1	COOL/FREEZER WALK-IN BOX	K.E.S.	G.C.	208/230-1	13.5		3" H.D.			COOLER FREEZER LIGHTS	
040A	1	REACH-IN FREEZER	K.E.S.	K.E.S.	115-1	15.3					WITH PLUG/CORD (RECEPT. IN HOOD)	
041	LOT	SHELVING - COLD STORAGE	K.E.S.	K.E.S.								
042	LOT	SHELVING - DRY STORAGE	K.E.S.	K.E.S.								
043	LOT	SHELVING - "SMARTWALL"	K.E.S.	G.C.								
044	LOT	SHELVING - WALL MOUNTED	K.E.S.	G.C.								
049	1	CONVEYOR TOASTER - STAR QCSe	K.E.S.	K.E.S.	208-1	14					WITH CORD AND PLUG	
050	2	MICROWAVE OVEN	K.E.S.	K.E.S.	208-1	20					ON OVERSHELF	
051	2	PRODUCT HOLDING UNIT-DUKE	K.E.S.	K.E.S.	208-1	14.3					WITH CORD AND PLUG	
051A	1	PRODUCT HOLDING UNIT-DUKE	K.E.S.	K.E.S.	208-1	9.5						
052	1	EGG STATION - ROUNDUP ES-1200	K.E.S.	K.E.S.	208-1	11.4					WITH CORD AND PLUG	
053	1	UNDER COUNTER REFRIGERATOR - SILVER KING SKTR-7FBK	K.E.S.	K.E.S.	115-1	4.5					WITH CORD AND PLUG	
055	2	RAPID VERT. TOASTER PRINCE CASTLE DCFT	K.E.S.	K.E.S.	208-1	30					WITH CORD AND PLUG	
060	1	THREE COMPARTMENT SINK	K.E.S.	K.E.S.			1/2 H&C	2" I.D.			2 EACH, HOT AND COLD WATER	
060A	0	POWER SOAK SINK (OPTIONAL)	K.E.S.	K.E.S.			1/2 H&C	2" I.D.			VERIFY POWER REQUIREMENTS WITH K.E.S.	
061	1	ONE COMPARTMENT SINK W/SQL 24" LH DRAIN BOARD	K.E.S.	K.E.S.			1/2 H&C	2" I.D.				
062	1	HAND SINK	K.E.S.	G.C.			1/2 H&C	1-1/2"			G.C. TO PROVIDE SOAP, HAND SANITIZER AND TOWEL DISPENSERS. (REFERENCE SHEET A-3.1)	
064	1	NEMCO N5650-2 LETTUCEKUTTER	K.E.S.	K.E.S.								
064A	1	NEMCO 56750-1 ONION/TOMATO SLICER	K.E.S.	K.E.S.								
070	1	SAFE - INTELLIGENT SAFE 20x20x30	K.E.S.	K.E.S.	115-1	1					WITH CORD AND PLUG	
072	2	BAG-IN-BOX SYRUP RACK	K.E.S.	K.E.S.								
073	1	WATER FILTER - EVERPURE CB2-312 WITH SCALE INHIBITOR SR-X	K.E.S.	G.C.			3/4 C					
074	1	BULK CO2 SYSTEM	K.E.S.	K.E.S.								
079	1	40B-C FIRE EXTINGUISHER	K.E.S.	G.C.							WITH H/D VEHICLE BRACKET	
080	1	4A-80B-C FIRE EXTINGUISHER	K.E.S.	G.C.							WITH H/D VEHICLE BRACKET	
081	1	K EXTINGUISHER (PLACARD PER NFPA 10)	K.E.S.	G.C.							WITH H/D VEHICLE BRACKET	
090	5	P.O.S. DEVICE	K.E.S.	K.E.S.	115-1	1.2						
090A	7	P.O.S. PRINTER	K.E.S.	K.E.S.	115-1	1.2						
090B	5	CASH DRAWER (NOT SHOWN)	K.E.S.	K.E.S.								
090C	1	SPEED OF SERVICE TIMER	K.E.S.	K.E.S.	115-1	1.2						
090D	1	TICKET HOLDER (NOT SHOWN)	K.E.S.	K.E.S.								
091	1	OFFICE COUNTER TOP	G.C.	G.C.								
091A	1	FILE CABINET	OWNER	OWNER								
092	1	CREW ROOM COUNTER TOP	G.C.	G.C.								
092A	1	CREW TRAINING MODULE CABINET	G.C.	G.C.								
094A	1	MENU BOARD	OWNER	G.C.	115-1	7.8						
095	1	OUTDOOR WASTE CONTAINERS (NOT SHOWN)	K.E.S.	K.E.S.								

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REVISIONS:

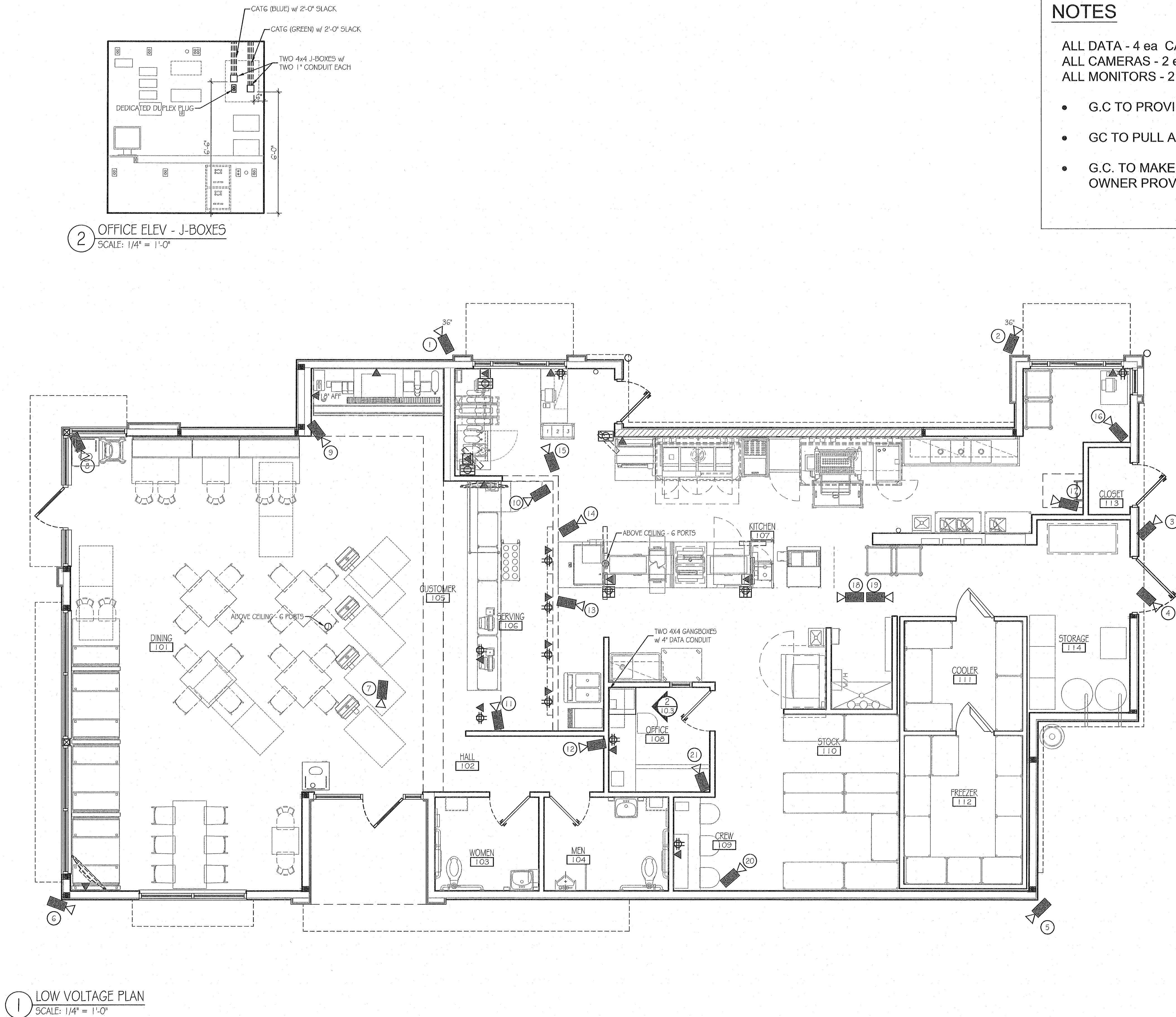
EQUIPMENT SCHEDULES

BURGER KING

STORE #

Versailles Road

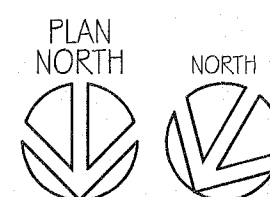
Frankfort, KY 40601</



NOTES

ALL DATA - 4 ea CAT6
ALL CAMERAS - 2 ea CAT6 (GREEN)
ALL MONITORS - 2 ea CAT6 (BLUE)

- G.C TO PROVIDE LOW VOLT WIRE
- GC TO PULL ALL LOW VOLT WIRE
- G.C. TO MAKE TERMINATIONS WITH OWNER PROVIDED CONNECTIONS



NOV 04 2021

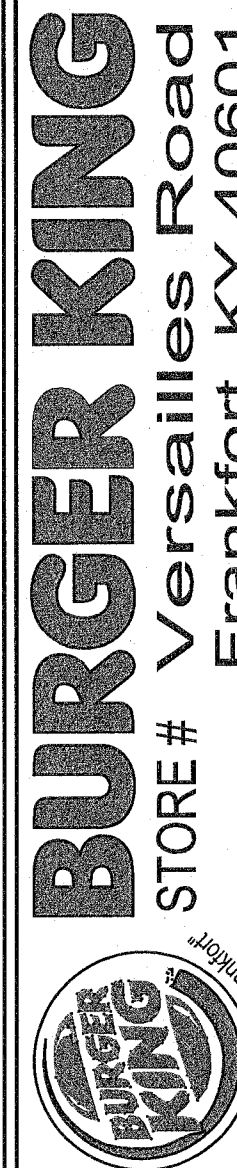
Charles William Pope
& Associates
ARCHITECTURE PLANNING CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

DATE: 11.03.21
JOB NO: 44387
DRAWN BY: *CRK*
SHEET NUMBER:

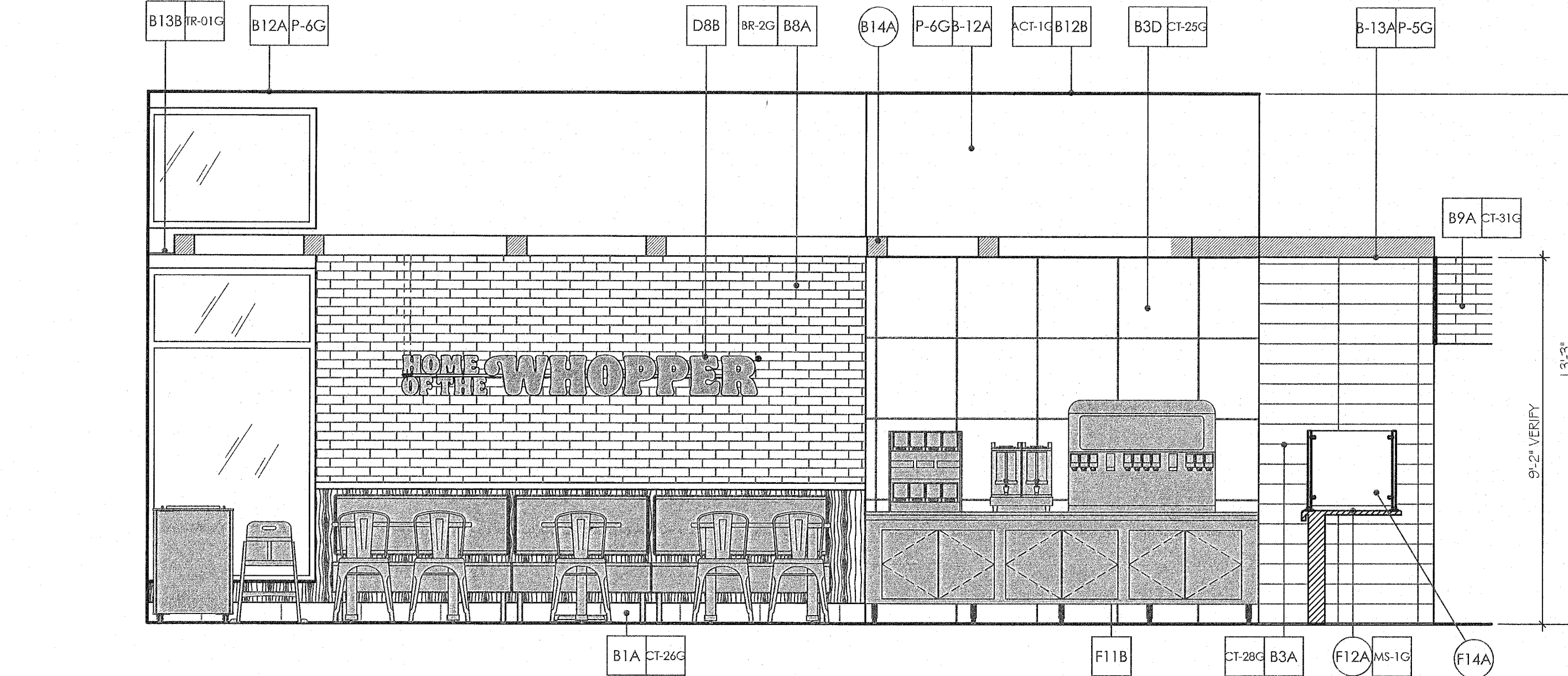
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OF

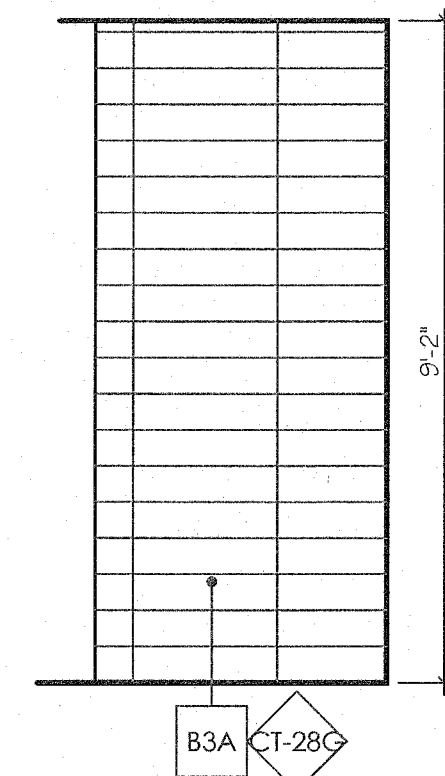
LOW VOLTAGE PLAN



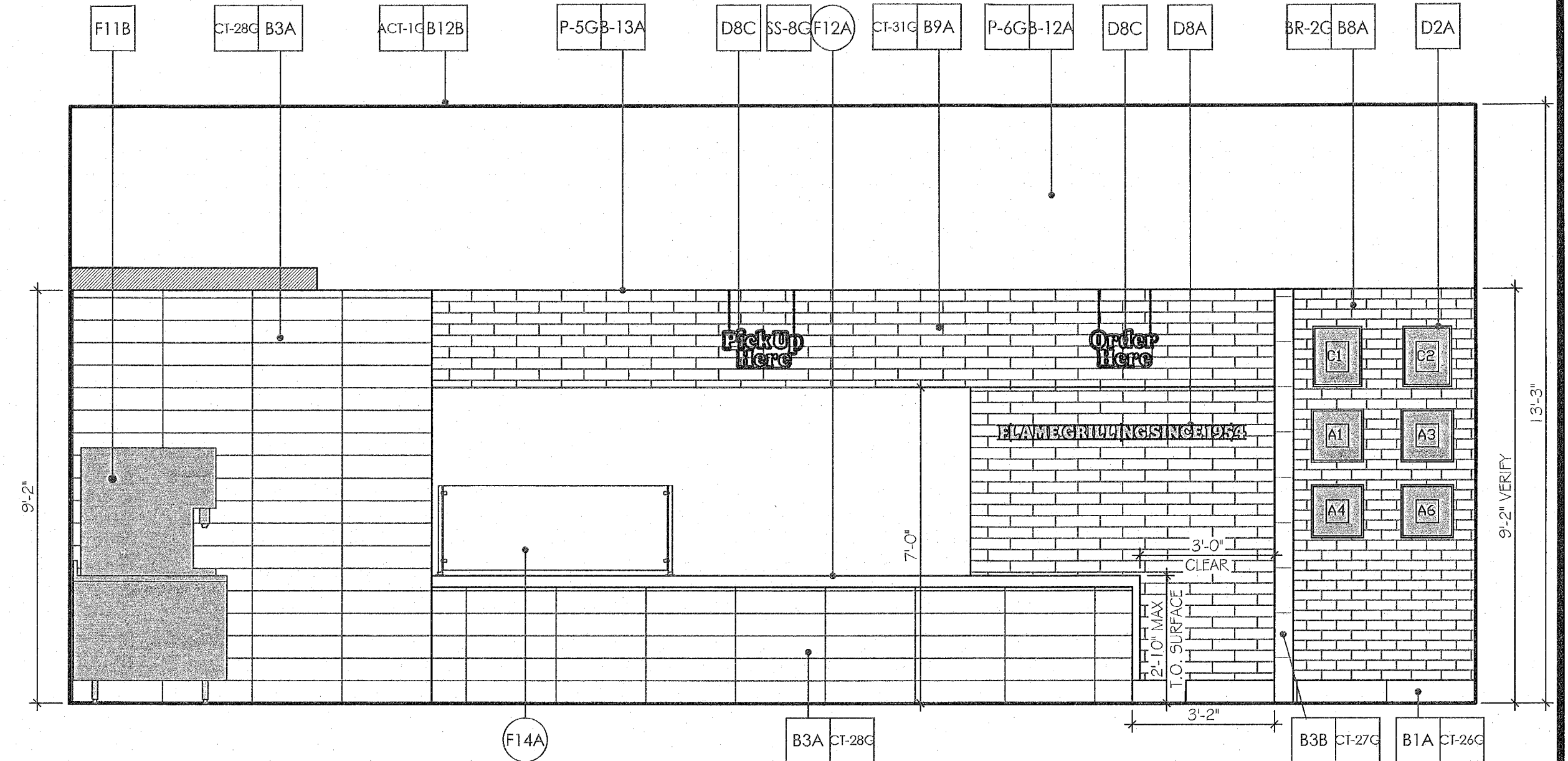
REVISIONS:



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

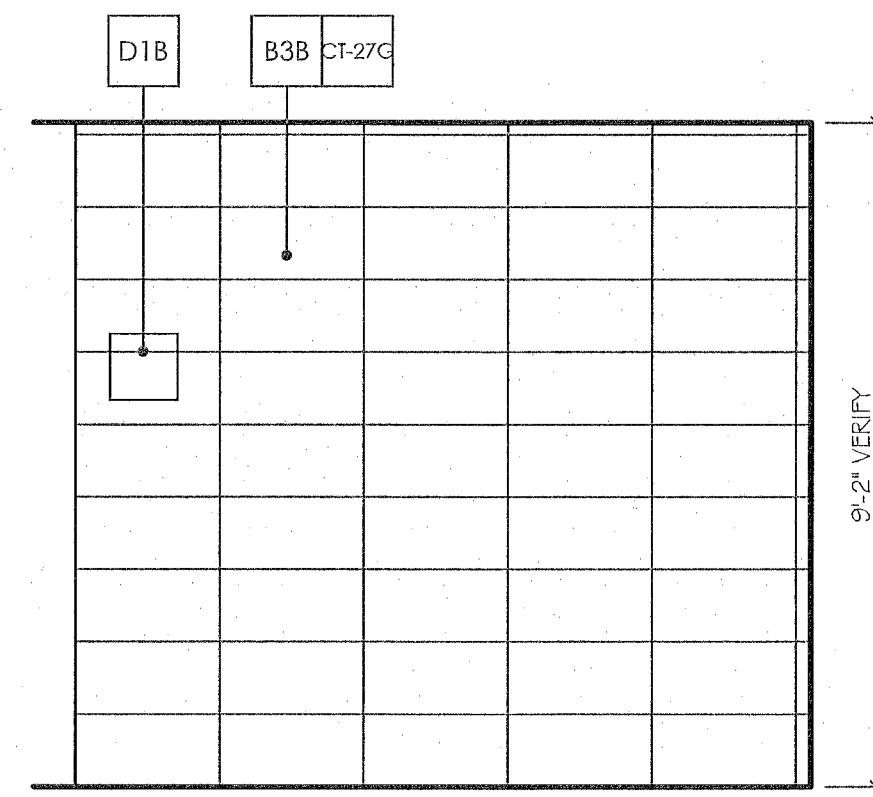


2 DINING
SCALE: 3/8" = 1'-0"

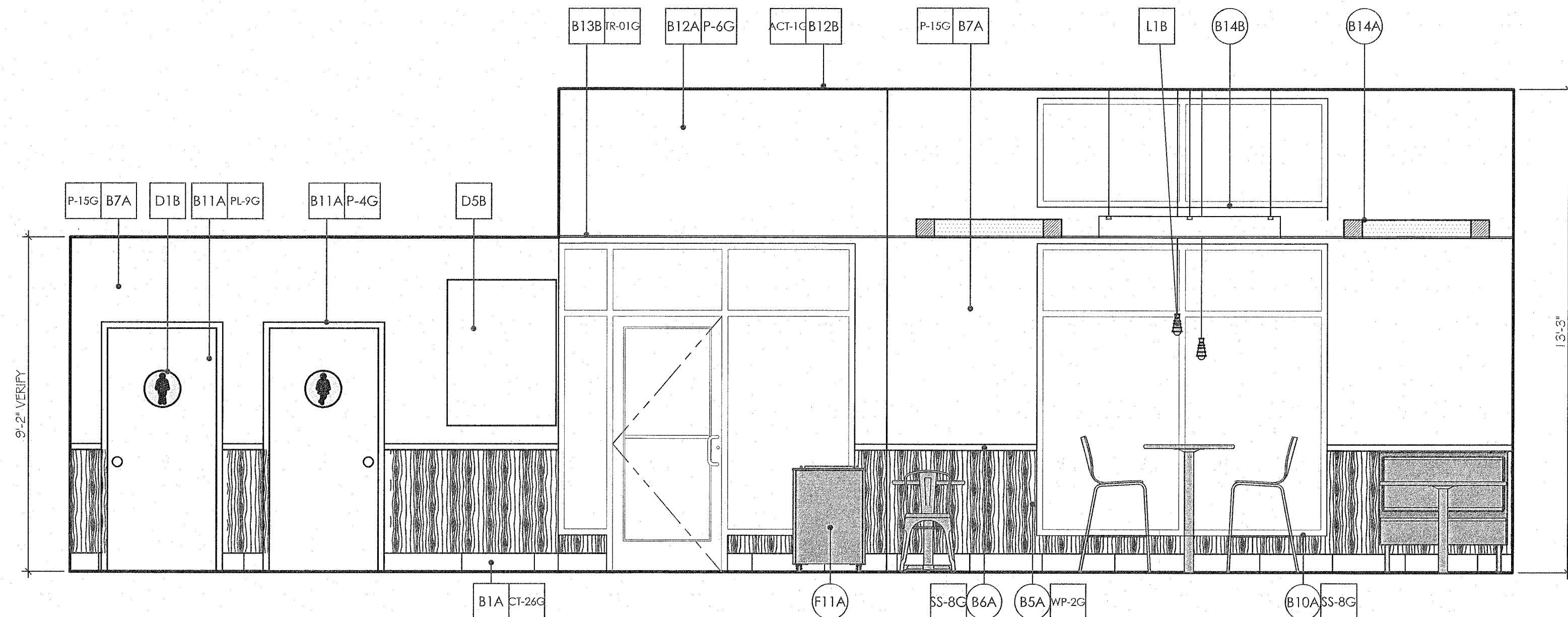


3 CUSTOMER
SCALE: 3/8" = 1'-0"

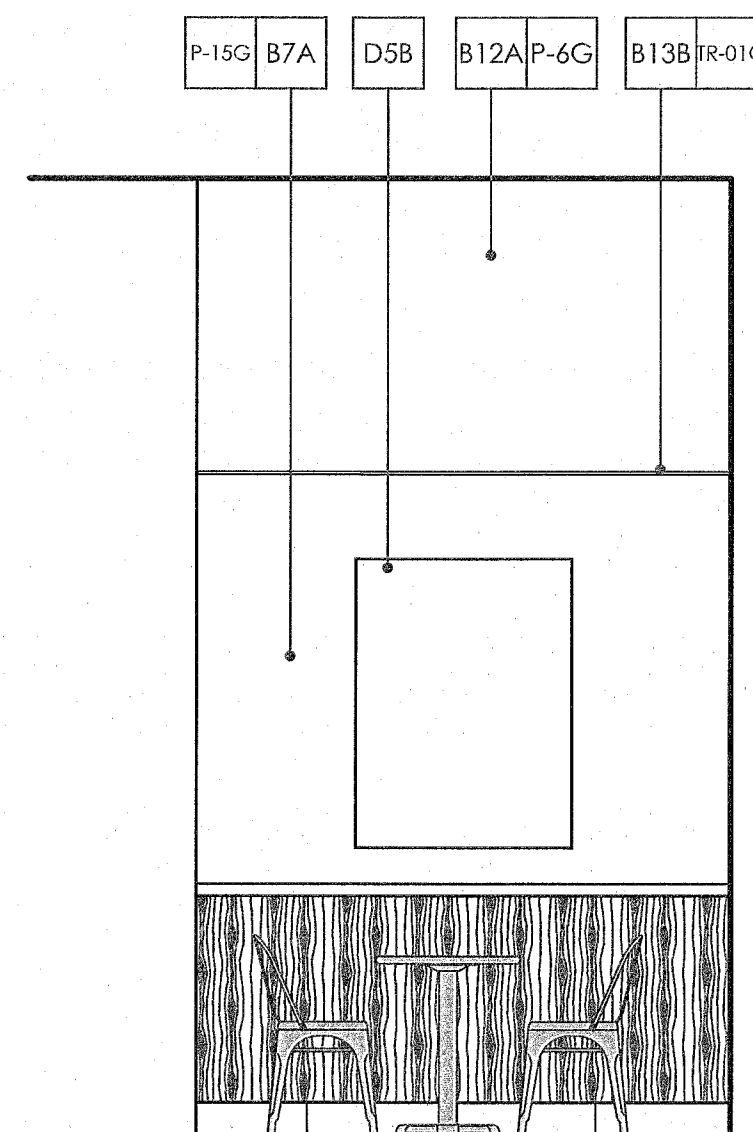
SEE FINAL/APPROVED DECOR PLANS BY
DECOR VENDOR FOR FINAL FINISHES & DECOR



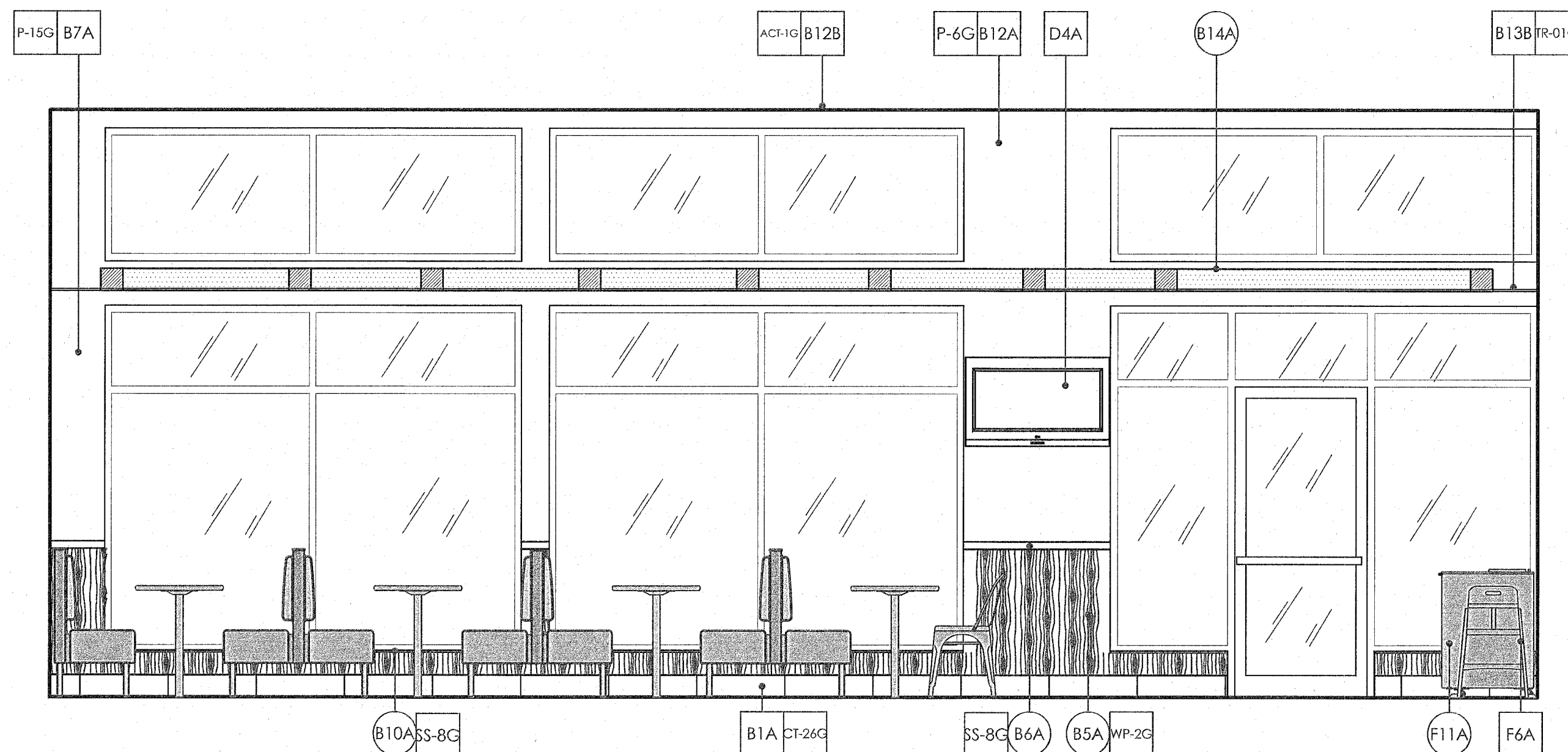
4 HALL
SCALE: 3/8" = 1'-0"



5 HALL / DINING
SCALE: 3/8" = 1'-0"



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



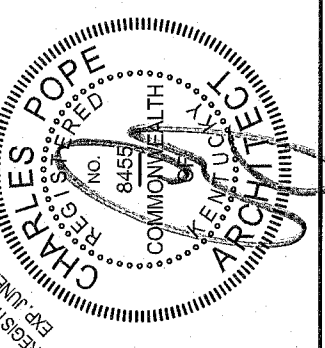
7 DINING
SCALE: 3/8" = 1'-0"

REVISIONS:

INTERIOR ELEVATIONS



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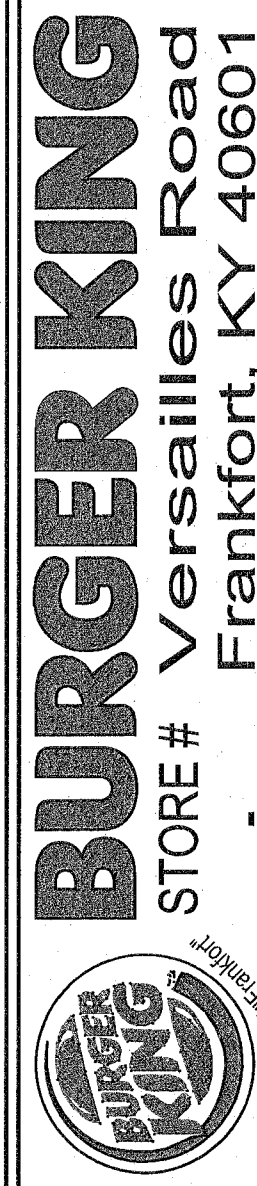
Charles William Pope & Associates
ARCHITECTURE, PLANNING, CONSULTING
7400 BLANCO RD., SUITE 257, SAN ANTONIO, TX 78216

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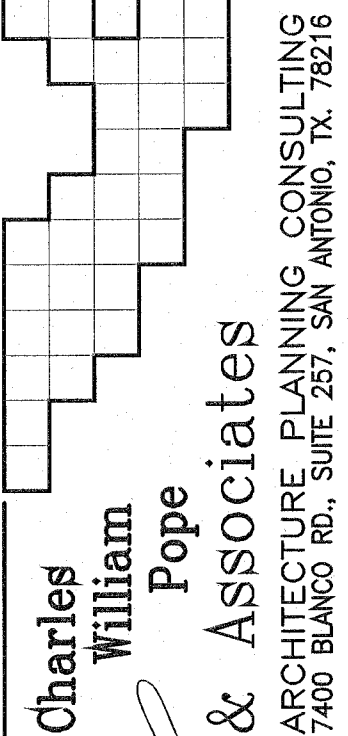
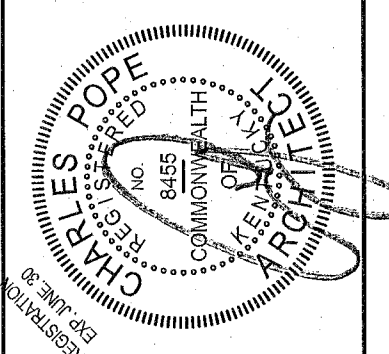
		OWNER / GC "NEW RESTAURANT" DUTIES				
		Project Name:				
		General Contractor:				
		Architect:				
		Civil Engineer:				
		Sign Contractor:				
		OWNER PROVIDED	OWNER INSTALL	GC PROVIDED	GC INSTALLED	COMMENTS
BUILDING SIGNAGE	BK "Button" Logos (2-3 total)	X			X	
	BK Flame Grilling 1954 at Entry	X			X	Enterra Providing/ Local Sign Co Install w/ GC allowance
	Building Canopies	X			X	Enterra Providing/ Local Sign Co Install w/ GC allowance
	Address Numbers			X	X	Enterra Providing/ Local Sign Co Install w/ GC allowance
	Flag Pole			X	X	
SITE SIGNAGE	All Exterior Merchandising	X			X	Only applicable if noted on plans
	Parking Lot Lighting			X	X	
	BK High Rise Pylon / Monument Sign & Reader Boards	X			X	Enterra Providing/ Local Sign Co Install - GC TO PAINT
BUILDING EXTERIOR LIGHTS	All Exterior Lighting on Building	X		X	X	
	Red Light Band				X	Enterra Providing/ Local Sign Co Install w/ GC allowance
BUILDING INTERIOR LIGHTS						
	All Interior FOH & BOH Light Fixtures			X	X	
DRIVE THRU						
	Drive Thru Detector Loops	X			X	GC to purchase thru BKC vendor if approved by owner
	Drive Thru Clearance Bar	X			X	
	Order Confirmation Unit (OCU) Canopy	X			X	
	Drive Thru Digital Menu & Digital Presell Boards	X	X			Sicom providing / Sicom to install
WALK IN COOLER/ FREEZER	Conduit / Data / Cabling for Menu & Presell Boards			X	X	GC installs footings, GC installs boards
	Drive Thru Menu & Presell Board Footings			X	X	
	Bollard Poles at Building			X	X	
	Drive Thru Windows			X	X	
EXHAUST HOODS /FANS						
	Walk In Cooler/ Freezer/ Curbs	X			X	
	Walk In Light Fixtures	X			X	
	Condensate Lines			X	X	
	Start Up			X	X	
PLUMBING & ACCESSORIES						
	All Kitchen Hoods (2)	X			X	
	Ansel System Start Up & Test	X	X			Owner to Furnish, local installer to install ansul - GC to coordinate timing of testing
	Grease Ducts / Fire Wrap			X	X	
	Bathroom Exhaust Fans			X	X	
INTERIOR MENU BOARDS						
	Grab Bars			X	X	
	Mirrors (2)			X	X	
	Paper Towel Dispenser (4)			X	X	GC to align with Ops on which dispensers to use - need to all match
	Soap / Sanitizer Dispenser (4)			X	X	GC to align with Ops on which dispensers to use - need to all match
STAINLESS STEEL ITEMS	TP Dispensers (2)			X	X	GC to align with Ops on which dispensers to use - need to all match
	Sanitary Napkin Disposal (1)			X	X	
	Recessed Waste Baskets (2)			X	X	
	Mop Sink Station			X	X	
	Hot Water Heater			X	X	
EQUIPMENT	Toilets (2) and Urinal (1)			X	X	
	Sinks (2)			X	X	
	Back Flow Prevention for Ice Machines / Drink Stations			X	X	
	All other Misc Plumbing Accessories			X	X	
	Baby Changing Stations			X	X	GC to install Baby Changing stations after opening
SEATING & DÉCOR						
	Interior Digital Menu Boards (DMB)	X	X			Sicom to install DMBs / GC to provide electric & data rough in
	Kitchen Stainless Steel Corner Guards			X	X	
	Wall Panels Behind Hoods			X	X	
	Misc Steel			X	X	
DINING & RESTROOM FINISHES						
	Cooking Equipment	X			X	
	Equipment Start Up				X	
	Permanent Office Shelving/ & Work Stations	X			X	GC to coordinate w/ Commercial Kitchen on Startups - get w/ CM
	3 Comp Sink w/ Faucets (1 ea)	X			X	All Permanent Shelving including office & training area (Counter by GC)
I.T. & OTHER TECH	1 Comp Prep Sink w/ Faucet (1 ea)	X			X	
	Hand Sinks w/ Faucets & Foot Pedals (2 ea)	X			X	
	Food Prep Items	X			X	
	Serving & Drive Thru Items	X			X	
	Small Ware Package	X			X	
MISCELLANEOUS	Ice Machine Start Ups	X			X	
	Ice Machine Lines			X	X	GC to coordinate w/ Commercial Kitchen on Startups
	POS Systems	X	X			
	Drive Thru Director	X	X			Sicom to install POS
						Sicom to install DTD (EXCEPT LOOPS)
BUILDING SIGNAGE						
	Install Décor Package (Below)	X			X	COMMENTS
	Booths, Tables & Chairs	X			X	Owner Décor Package
	Divider & Half Walls	X			X	Owner Décor Package
	Cabinets & Drink Station	X			X	Owner Décor Package
SITE SIGNAGE	Service Counter Top	X			X	Provided by H&K
	Wall Graphics	X			X	Owner Décor Package
	Ceiling Soffits			X	X	Moss Graphic Package
	Core Drilling for Booths & Tables			X	X	
BUILDING EXTERIOR LIGHTS						
	Dining Room Wainscot	X			X	
	Window Sills	X			X	See approved vendors on finish schedule
	Chair Rail	X			X	See approved vendors on finish schedule
	Dining & Restroom Floor Tile & Base			X	X	See approved vendors on finish schedule
DRIVE THRU	Restroom Wall Tile			X	X	See approved vendors on finish schedule
	Kitchen Floor Tile & Base			X	X	See approved vendors on finish schedule
	Wall Tile Behind Front Counter			X	X	See approved vendors on finish schedule
	Wall Tile Behind Drink Station			X	X	See approved vendors on finish schedule
	Queue Rail (when applicable)	X			X	Confirm w/ owner on Queue rail install
WALK IN COOLER/ FREEZER						
EXHAUST HOODS /FANS						
PLUMBING & ACCESSORIES						
INTERIOR MENU BOARDS						
STAINLESS STEEL ITEMS						
EQUIPMENT						
SEATING & DÉCOR						
DINING & RESTROOM FINISHES						
I.T. & OTHER TECH						
MISCELLANEOUS						

REVISIONS:

OWNER / G.C. DUTIES



NOV 04 2021



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DRAWN BY: *CRJ*
SHEET NUMBER:

12.1

OF