RESTAURANT AND LEASE SPACE FOR:
MANISUP
LAFAYETTE, LA

PROJECT DIRECTORY

PROJECT:	RESTAURANT AND LEASE SPACE FOR: MANISUP 4953 JOHNSTON STREET LAFAYETTE, LA 70503
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PROJECT ENGINEER:	NICK LEGE
GENERAL CONTRACTOR:	(TO BE DETERMINED)

PROJECT RESPONSIBILITIES

OWNER SUPPLIED ITEMS - GENERAL CONTRACTOR INSTALLED:
KITCHEN EQUIPMENT - PLUMBING, NATURAL GAS, AND ELECTRIC FIXTURE SERVICE CONNECTIONS

OWNER SUPPLIED ITEMS - SELF-CONTRACTED / SELF-INSTALLED:
KITCHEN EQUIPMENT - EXCEPT FOR SERVICE CONNECTIONS
BAR EQUIPMENT - EXCEPT FOR SERVICE CONNECTIONS
FURNITURE
TVS AND MOUNTS
AUDIO EQUIPMENT
BUILDING SECURITY SYSTEM
TEL DATA EQUIPMENT
EXTERIOR BUILDING SIGN
EXTERIOR GROUND MOUNTED SIGN

PROJECT ALTERNATES / ALLOWANCES

ALTERNATES -
NONE

ALLOWANCES -
NONE

UNIT COST NO. 1 -
NONE

SCHEDULE OF REVISION / CHANGES

NONE

ABBREVIATIONS

ACOUS. ACOUSTICAL
A.C.T. ACOUSTICAL CEILING TILE
ADJ. ADJUSTABLE
A.F.F. ABOVE FINISHED FLOOR
A.F.G. ABOVE FINISHED GRADE
ALUM. ALUMINUM
ANG. ANGLE / ANGULAR
BD. BOARD
BM. BEAM
B.O. BY OTHERS / BY OWNER
C.B. CHALKBOARD OR CATCH BASIN
C.J. CONSTRUCTION JOINT
CLG. CEILING
CLR. CLEAR
C.M.U. CONCRETE MASONRY UNIT
COL. COLUMN
CONC. CONCRETE
CONT. CONTINUOUS
DET. DETAIL
D.S. DOWN SPOUT
EA. EACH
E.J. EXPANSION JOINT
ELEC. ELECTRICAL
ELEV. ELEVATION / ELEVATOR
EQ. EQUAL
E.T.R. EXISTING TO REMAIN
E.W.C. ELECTRICAL WATER COOLER
EXP. EXPANSION
EXT. EXTERIOR
F.E. FIRE EXTINGUISHER
F.E.C. F.E. IN CABINET
F.F. FINISHED FLOOR
FL. FLOOR
GALV. GALVANIZED
G.B. GRAB BAR
G.D. GARBAGE DISPOSAL
G.I. GALVANIZED IRON
GYP. GYPSUM
G.W.B. GYPSUM WALL BOARD
H.M. HOLLOW METAL
HOL. HOLLOW
HORZ. HORIZONTAL
HR. HOUR
HRDWR. HARDWARE
INSUL. INSULATION
LAM. LAMINATE
LNDNG. LANDING
LAV. LAVATORY
MAX. MAXIMUM
MAINT. MAINTENANCE
M.O. MASONRY OPENING
MECH. MECHANICAL
MTL. METAL
M.T. METAL LATH
MIN. MINIMUM
MULL. MULLION
NAT. NATURAL
N.I.C. NOT IN CONTRACT
NO. NUMBER
N.T.S. NOT TO SCALE
O.C. ON CENTER
O.H. OPPOSITE HAND
OZ. OUNCE
PLAS. PLASTER
PL. PLASTIC
P.L. PLATE LINE
PNTD. PAINTED
P.T.D. PAPER TOWEL DISPENSER
RE. REFER TO / REFERENCE
REF. REFRIGERATOR
REINF. REINFORCING
REQD. REQUIRED
SCHED. SCHEDULED
S.C. SOLID CORE
S.D. SOAP DISPENSER
SHT. SHEET
SIM. SIMILAR
SPECS. SPECIFICATIONS
SQ. SQUARE
STL. STEEL
STND. STANDARD
STOR. STORAGE
STRUCT. STRUCTURAL
SUSP. SUSPENDED
TEMP. TEMPORARY
TEMPRD. TEMPERED
THK. THICK / THICKNESS
THRLD. THRESHOLD
T.P.H. TOILET PAPER HOLDER
UR. URINAL
G.W.B. GYPSUM WALL BOARD
VERT. VERTICAL
V.O.J. VERIFY ON JOB
V.W.C. VINYL WALL COVERING
W.C. WATER CLOSET
WD. WOOD
WID. WIDTH

GRAPHIC SYMBOLS

X — INT. ELEV.
X — KEY NOTE
X — WINDOW MARK
X — DOOR MARK
X X — DETAIL BLOW-UP
X X — BUILDING SECTION
X X — WALL SECTION
XX — PARTITION TYPE
X — REVISION CLOUD KEY NOTE

COMMON IDENTIFIERS

GENERAL CONSTRUCTION:
IBC SECTION 720 - CONCEALED BUILDING INSULATION: INSULATING MATERIAL, WHERE CONCEALED AS INSTALLED IN BUILDINGS OF ANY TYPE CONSTRUCTION, SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT INDEX OF NOT MORE THAN 450.
FACING: WHERE SUCH MATERIALS ARE INSTALLED IN CONCEALED SPACES IN BUILDING OF TYPE III, IV, OR V CONSTRUCTION, THE FLAME SPREAD AND SMOKE DEVELOPMENT LIMITATIONS DO NOT APPLY TO FACINGS, COVERINGS, AND LAYERS OF REFLECTIVE FOIL INSULATION THAT ARE INSTALLED BEHIND AND IN SUBSTANTIAL CONTACT WITH THE UNEXPOSED SURFACE OF THE CEILING, WALL, OR FLOOR FINISH.

PROVIDE LISTED PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10.

FLOOR ELEVATION SHALL NOT CHANGE BY MORE THAN 1/2" FROM ONE SIDE OF A DOOR TO THE OTHER.

LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL DEVICE OR SPECIAL KNOWLEDGE TO OPEN IN THE DIRECTION OF EGRESS.

DOORS SHALL BE OPENABLE WITH ONLY ONE RELEASING OPERATION. A TWO-STEP RELEASE, SUCH AS A KNOB AND AN INDEPENDENT SLIDE BOLT, IS NOT ACCEPTABLE.

INTERIOR WALLS AND CEILINGS SHALL HAVE A MAXIMUM FLAME SPREAD OF 0-200 AND A MAXIMUM SMOKE DEVELOPMENT RATING OF 0-450.

PENETRATIONS THROUGH FIRE RATED CONSTRUCTION SHALL BE SEALED BY APPROVED FIRESTOP SYSTEMS OR DEVICES, OR BY ASSEMBLIES OF FIRESTOPPING MATERIALS CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED AND RATED IN ACCORDANCE WITH NFPA.

ADAAG:
PROVIDE HANDICAPPED ACCESSIBILITY IN ACCORDANCE WITH ADAAG.

GROUND AND FLOOR SURFACES (SLIP RESISTANT UNDER ALL WEATHER CONDITIONS).

DOOR HARDWARE SHALL COMPLY WITH THIS SECTION. HARDWARE SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE.

SIGNAGE, WHERE PROVIDED AT PERMANENT ROOMS AND SPACES AND OTHER SIGNS WHICH PROVIDE DIRECTION TO OR INFORMATION ABOUT FUNCTIONAL SPACES OF THE BUILDING, SHALL BE IN ACCORDANCE WITH ADA (RAISED CHARACTER, LETTER SIZE, MOUNTING).

PLUMBING:
ALL PLUMBING WORK SHALL BE ACCOMPLISHED THROUGH THE USE OF A LICENSED CONTRACTOR OF THE TRADE IN A PROFESSIONAL AND WORKMAN LIKE MANNER.

ALL PLUMBING WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE IPC, REGIONAL, STATE AND OR LOCAL HEALTH DEPARTMENT, AND BUILDING CODES FOR THE GEOGRAPHICAL AREA OF CONSTRUCTION.

ALL WATER LINES (HOT AND COLD) AND ALL WASTE LINES SHALL BE PRESSURE TESTED PRIOR TO CONCRETE PLACEMENT.

INSTALL SANITARY HUBS AS PER MUNICIPAL AND STATE HEALTH DEPARTMENT REQUIREMENTS AND AS ILLUSTRATED HEREIN, AND PRESSURE TESTED PRIOR TO CONCRETE PLACEMENT.

IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSURE THAT NO EXISTING UTILITIES ARE INTERRUPTED BY THE CONTRACTED EXCAVATIONS.

MECHANICAL:
COORDINATE ALL DUCTWORK WITH ELECTRICAL LIGHTING PLAN.

ALL DUCT WORK SHALL CONFORM WITH THE IMC.

AIR CONDITIONING, HEATING, VENTILATION DUCT WORK AND RELATED EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH NFPA REGULATIONS

INSTALL FIRE DAMPERS IN ALL AIR TRANSFER OPENING THROUGH FIRE RATED PARTITIONS.

GENERAL ELECTRICAL:
ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH CURRENT EDITION OF NFPA 70, NATIONAL ELECTRICAL CODE. THE IECC, AND ALL RULES AND OR REGULATIONS HANDED DOWN BY THE STATE, LOCAL OR OTHER REGULATING AUTHORITY FOR THE END PROJECT.

THE ELECTRICAL SUBCONTRACTORS SHALL VERIFY ALL ASPECTS OF THE ELECTRICAL WORK WITH THE LOCAL UTILITY COMPANY PROVIDING THE SERVICES TO THE PROPOSED PROJECT. INSURE THAT THE GENERAL INTENT OF THE DRAWINGS ARE IN ACCORDANCE WITH 'NEC' AND APPLIED.

CODE DATA

IBC (INTERNATIONAL BUILDING CODE), 2021 EDITION
NEW RESTAURANT AND BUILDING SHELL

OCCUPANCY: MIXED USE
SECTION 303.3 ASSEMBLY GROUP A-2 (RESTAURANT AND BAR)
SECTION 304.1 BUSINESS GROUP B (BUILDING SHELL)

BUILDING AREA:
2,613 SQ. FT. - GROUP A-2 (RESTAURANT AND BAR)
6,039 SQ. FT. - GROUP B (BUILDING SHELL CONDITION)
1,008 SQ. FT. - GROUP B (GRAY BOX)
9,660 SQ. FT. - TOTAL
AUTOMATIC SPRINKLER SYSTEM: NO
FIRE ALARM SYSTEM: NO
HEIGHT: ONE STORY (+-24'-0")
CONSTRUCTION TYPE: IIB

NFPA 101, LIFE SAFETY CODE, 2015 EDITION
OCCUPANCY: SEPERATED
CHAPTER 12 ASSEMBLY (OL LESS THAN 100) RESTAURANT.
CHAPTER 38/39 BUSINESS (BUILDING SHELL AND GRAY BOX)
CLASSIFICATION OF HAZARD CONTENTS:
6.2.2.3 ORDINARY HAZARD CONTENTS
AUTOMATIC SPRINKLER SYSTEM: NO
FIRE ALARM SYSTEM: NO
CONSTRUCTION TYPE: II(000)

ENERGY CODE COMPLIANCE, 2021 IECC
2,613 SQUARE FEET INTERIOR CONDITIONED RESTAURANT AND BAR ONLY.
N/A REMAINING 7,047 SQUARE FEET. UNCONDITIONED SHELL AND GRAY BOX.

DESIGN DATA

DESIGN LIVE LOADS:
ROOF LIVE LOAD: 20 PSF
ROOF DEAD LOAD: 10 PSF
FLOOR LIVE LOAD: 150 PSF
FLOOR DEAD LOAD: 50 PSF
SNOW LOAD - 0 PSF
IMPACT ZONE - NOT REQUIRED

WIND DESIGN DATA:
BASIC WIND SPEED (3 SECOND GUST): 131 MPH (ASCE 7-16)
WIND IMPORTANCE FACTOR: 1.0 (ASCE 7-16)
OCCUPANCY CATEGORY: II (ASCE 7-16)
WIND EXPOSURE CATEGORY: EXPOSURE "B"
DESIGN WIND PRESSURE FOR EXTERIOR COMPONENTS AND CLADDING MATERIALS: (ASCE 7-16 METHOD 1)

CODE REFERENCE

2015 NFPA 101 LIFE SAFETY CODE

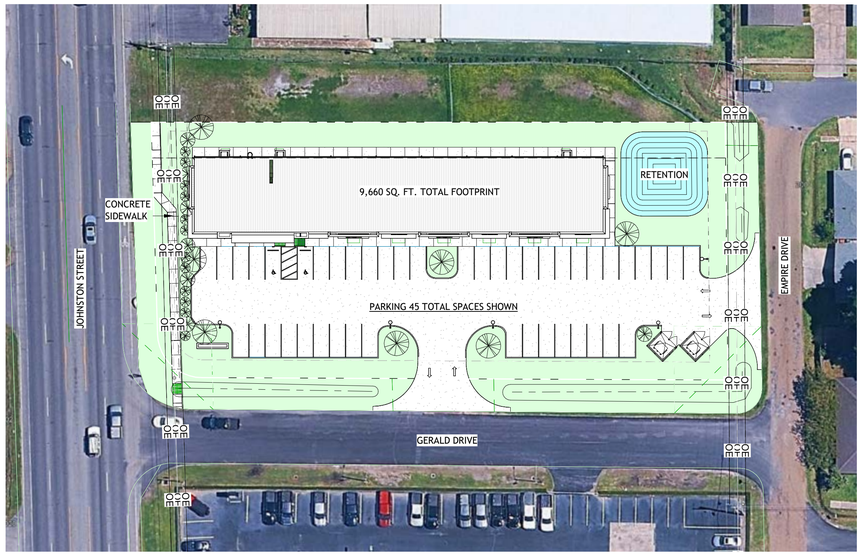
2021 IBC (EXCLUDING CHAPTERS 1, 11, AND 27)
INTERNATIONAL BUILDING CODE

2021 IEBC (EXCLUDING CHAPTER 1)
INTERNATIONAL EXISTING BUILDING CODE

2021 IRC (EXCLUDING PART I AND VIII)
INTERNATIONAL RESIDENTIAL CODE

2010 ADA STANDARDS (SEPTEMBER)
AMERICANS WITH DISABILITIES ACT

2021 IMC - INTERNATIONAL MECHANICAL CODE
2021 IPC - INTERNATIONAL PLUMBING CODE
2021 IFGC - INTERNATIONAL FUEL GAS CODE
2020 NEC - NATIONAL ELECTRICAL CODE



14 SITE PLAN - AERIAL OVERLAY
1" = 40'-0"

NORTH

DRAWING SET INDEX

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REVISIONS	BY

RESTAURANT AND LEASE SPACE FOR
MANISUP
4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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BRYAN P. BOUDREAUX REG. NO. 6208 STATE OF LOUISIANA REGISTERED ARCHITECT
5/20/2026

DRAWN	
CHECKED	
DATE	5-20-26
PROJECT NO.	1161-25

A1.1

1 OF 18 SHEETS

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KEYED (SITE PLAN DEVELOPMENT) NOTES:

1. MINIMUM 7.5' DIAMETER CLEARANCE FROM ALL POWER LINES.
2. REFER TO ELECTRICAL FOR SITE LIGHTING DESIGN
3. 8' TALL WOOD FENCE DUMPSTER ENCLOSURE WITH PIPE BOLLARD FENCE IMPACT PROTECTION. 3 PIPE BOLLARDS BEHIND EACH DUMPSTER. RE: (15 / A2.1) FOR PIPE BOLLARDS
4. DIGITAL BUILDING SIGN. (OWNER CONTRACTED)
5. LANDSCAPE ISLAND. (TYP.)
6. PAVED VEHICLE USE AREA WITH CONT. CONCRETE CURB AND SURFACE DRAINAGE . RE: TO CIVIL DESIGN DRAWINGS.
7. PAVEMENT PAINTED TRAFFIC DIRECTION ARROWS. (TYP.)
8. CROSS ACCESS VEHICLE DRIVE. (TYP.)
9. ALL AREAS OF CLEARED OR DISTURBED FIELD GRASS TO RECEIVE HYDROSEED UNLESS NOTED OTHERWISE TO RECEIVE SOD.(TYP.)
10. HATCHING INDICATES AREAS TO RECEIVE SOIL AND SOD. (APPROXIMATE 1000 SQ. FT.) RE: TO DETAIL (3 / A2.2)

ZONED CH - COMMERCIAL HEAVY
FLOOD ZONE X
PERMITTED USE - RESTAURANT; BUSINESS; RETAIL
DEVELOPMENT TYPE B

LIGHTING STANDARDS:
LIGHTING SHALL MEET ALL CODES AND SAFETY CLEARANCES FROM ABOVE-GROUND ELECTRIC FACILITIES.
LIGHTING SHALL ILLUMINATE ONLY THOSE AREAS FOR WHICH IT IS DESIGNED.
LIGHTS SHALL NOT BE TALLER THAN THE STRUCTURES THEY ARE SERVING.
PARKING LOT LIGHTING POLES SHALL NOT EXCEED 60 FEET IN HEIGHT.
DEVELOPMENTS SHALL SHIELD LIGHTING AWAY FROM ADJACENT RESIDENTIAL USES OR ZONING DISTRICTS.
LOW MOUNTED LIGHTS, NOT TO EXCEED 20 FEET IN HEIGHT, SHALL BE USED FOR PARKING AREAS WITHIN 100 FEET OF RESIDENTIAL USES OR VACANT PROPERTY LOCATED IN RESIDENTIAL ZONING DISTRICTS.

PARKING:
JOINT USE PARKING REDUCTION NOT APPLICABLE.
REDUCTION FOR PROXIMITY TO PUBLIC TRANSIT - REDUCED TO 80% OF REQUIRED
REDUCTION FOR THE FIRST 4000 SQ FT BY 2 SPACES
RESTAURANT 1 SPACE PER 4 SEATS IN SITTING AREA + 1 SPACE PER 200 SQ FT OF REMAINING FLOOR AREA (APPROXIMATELY 40 SEATS + 1000 SQ FT REMAINING = 15 PARKING SPACES)
BUSINESS AND RETAIL 1 SPACE PER 250 SQ FT (7047 SQ FT / 250 = 29 SPACES)
APPROXIMATELY 44 PARKING SPACES REQUIRED (44 X 80% = 36 PARKING SPACES REQUIRED)
FIRST 4000 SQ FT REDUCTION (36 - 2 = 34 PARKING SPACES REQUIRED)

COMPACT PARKING SPACES:
UP TO TEN PERCENT (10%) OF PARKING SPACES MAY BE DESIGNED FOR USE BY CARS SMALLER THAN FULL SIZE (CALLED "COMPACT SPACES").
COMPACT SPACES SHALL BE LOCATED IN CONTINUOUS AREAS, AND SHALL NOT BE MIXED WITH SPACES DESIGNED FOR FULL SIZE CARS.
COMPACT SPACES SHALL BE CLEARLY DESIGNED BY PAVEMENT MARKING AND LABELED AS "COMPACT CARS ONLY."
STALL DIMENSIONS FOR COMPACT SPACES ARE REDUCED TO 8 FEET WIDE AND 16 FEET DEEP

89-38 LOTS, BLOCKS AND SETBACKS
(C) LOTS
(6) CORNER LOTS
(B) A CORNER LOT HAS A FRONT LOT LINE ON EACH STREET AND NO REAR SETBACK.

MINIMUM 8% LANDSCAPING ISLAND WITH 45 PARKING SPACES:
18,858 SQ FT VEHICLE USE PAVED AREA APPROX. 1,509 LANDSCAPE ISLAND NEEDED 1,556 SHOWN

MINIMUM 20% OPEN GREEN SPACE (40% OF THE REQUIRED LANDSCAPE ISLAND AND 40% OF THE REQUIRED DETENTION BASIN/POND TOTAL COUNTS TOWARDS THE 20% OPEN GREEN SPACE)
REAR COMMON PROPERTY LINE 20' BUILDING SETBACK; 5' GREEN STRIP SHALL BE PLANTED IN GRASS OR OTHER PLANTING EXCEPT FOR REQUIRED INGRESS OR EGRESS
45,747 SQ FT TOTAL PROPERTY X 20% = 9,150 SQ FT
13,412 SQ FT OPEN GREEN SPACE SHOWN
2,164 SQ FT RETENTION POND X 40% = 866 SQ FT
1,556 SQ FT LANDSCAPE ISLAND X 40% = 622 SQ FT
9,150 + 866 + 622 = 10,638 SQ FT OPEN GREEN SPACE PROVIDED (23.2%)

LANDSCAPING, BUFFERS AND SCREENING:
UNPAVED AREAS NOT COVERED WITH MULCH OR PLANTED WITH TREES, SHRUBS, OR GROUND COVER SHALL BE PLANTED WITH TURF GRASS TO PREVENT SOIL EROSION
ENCROACHMENT BARRIERS SHALL BE PROVIDED WHEREVER A VEHICLE IS LIKELY TO PROTRUDE ONTO A LANDSCAPE AREA, SUCH AS IN FRONT OF A PARKING SPACE; REQUIRED LANDSCAPE AREAS SHALL BE PROTECTED BY PROPERLY ANCHORED PERFORATED CURBING AT LEAST SIX (6") INCHES HIGH
ALL PLANTING AREAS SHALL BE DESIGNED TO ACCEPT WATER
AT LEAST THE FOLLOWING PERCENTAGE OF THE VEHICULAR USE AREA SHALL INCLUDE PARKING LOT LANDSCAPING - 30 TO 50 SPACES = MIN. 8%; GREATER THAN 50 SPACES = MIN. 12%

INTERIOR PROPERTY LINES - MINIMUM 5 FOOT LANDSCAPING STRIP ALONG PROPERTY LINES WITHOUT STREET FRONTAGE

THE FOLLOWING MINIMUM STANDARDS APPLY TO INTERIOR LANDSCAPE ISLANDS WHERE THE REQUIRED MINIMUM PARKING LOT LANDSCAPING IS AT LEAST TWELVE (12%) PERCENT
EVERY PART OF A VEHICULAR USE AREA SHALL BE WITHIN 75 FEET OF THE TRUNK OF TWO CLASS "B" TREES, WITH NO INTERVENING STRUCTURES, WHERE ISLANDS ARE A MINIMUM OF 324 SQUARE FEET WITH A MINIMUM WIDTH OF NINE FEET
EVERY PART OF A VEHICULAR USE AREA SHALL BE WITHIN 100 FEET OF THE TRUNK OF A CLASS "A" OR TWO CLASS "B" TREES, WITH NO INTERVENING STRUCTURES, WHERE ISLANDS ARE A MINIMUM OF 324 SQUARE FEET WITH A MINIMUM WIDTH OF EIGHTEEN FEET

BUFFER TYPES AND SPECIFICATIONS:
BUFFER SPECIFICATIONS SHOWS THE MINIMUM WIDTH AND NUMBER OF TREES AND/OR PLANTS REQUIRED FOR EACH 100 LINEAR FEET FOR EACH BUFFER YARD
BUFFERS MAY BE PLACED INSIDE A REQUIRED SETBACK
BUFFERS MAY INCLUDE PEDESTRIAN PATHWAYS OR SIDEWALKS, DRAINAGE PONDS.
JOHNSTON ST. PRINCIPAL ARTERIAL - 10' BUFFER TYPE C
GERALD DRIVE LOCAL STREET; 10 FT GREEN STRIP
EMPIRE DRIVE LOCAL STREET; 10 FT GREEN STRIP
REAR INTERIOR LOT LINE 5 FT GREEN STRIP

TREE PLANTING AND MAINTENANCE STANDARDS:
AT LEAST 1 CLASS A OR 2 CLASS B TREES SHALL BE PROVIDED PER 50 LINEAR FEET OF LANDSCAPE STRIP, UNLESS PROXIMITY TO EXISTING UTILITY LINES PROHIBITS THAT PLACEMENT.

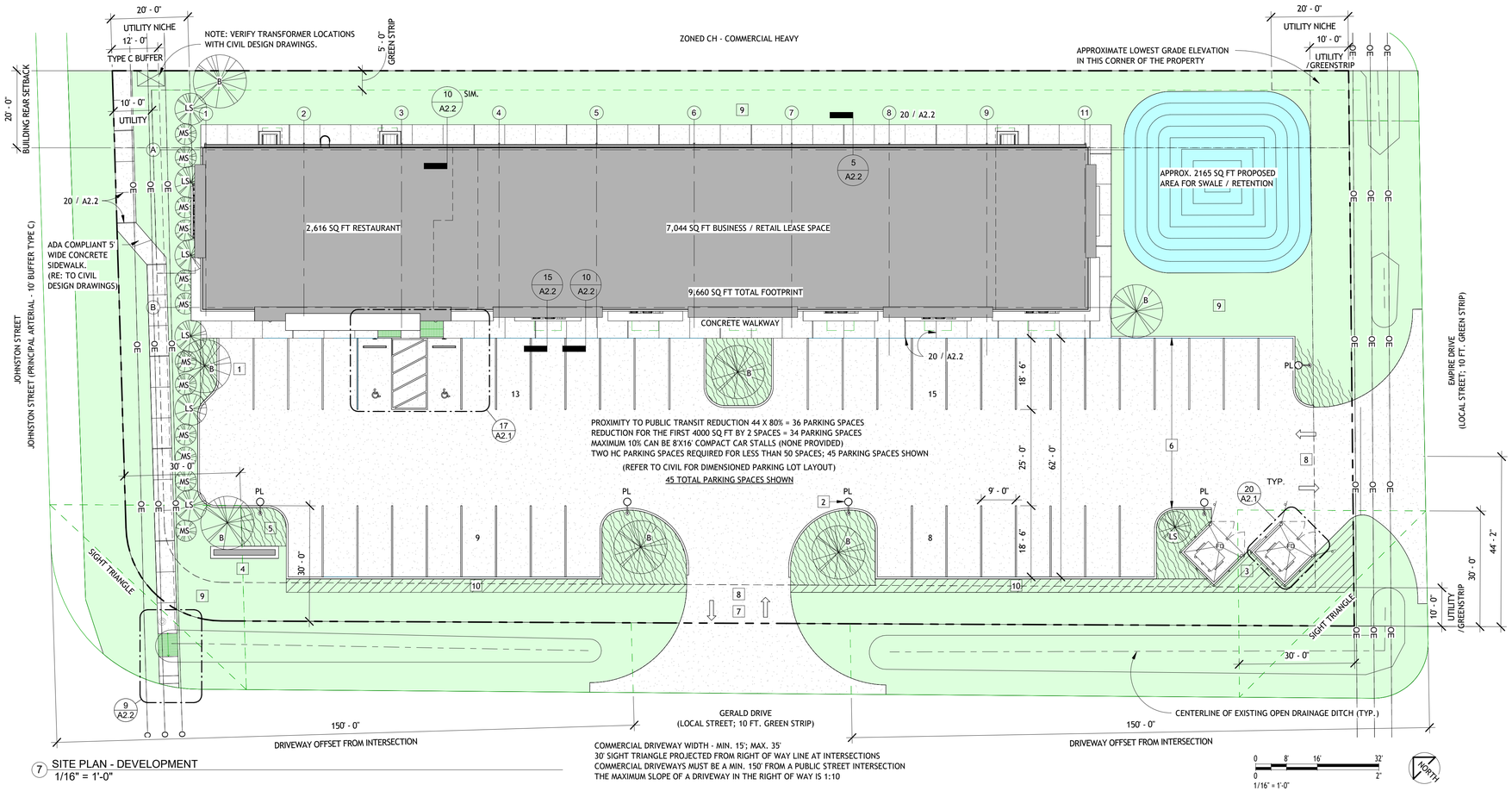
TREE SPECIFICATIONS:
CLASS A TREES SHALL BE A MINIMUM 2-INCH CALIPER WITH A MINIMUM HEIGHT OF 10 FEET;
CLASS B TREES SHALL BE A MINIMUM 1.5-INCH CALIPER WITH A MINIMUM HEIGHT OF 8 FEET; FOR MULTI-TRUNK SPECIES, EACH TRUNK SHALL HAVE MINIMUM CALIPER OF 1 INCH.

SHRUB SPECIFICATIONS:
A LARGE SHRUB IS BETWEEN 8 FEET AND 15 FEET IN HEIGHT AT MATURITY AND MAY BE EITHER DECIDUOUS OR EVERGREEN.
A MEDIUM SHRUB IS BETWEEN 3 FEET AND 8 FEET IN HEIGHT AT MATURITY AND MAY BE DECIDUOUS OR EVERGREEN.
A SMALL SHRUB IS NO MORE THAN 3 FEET IN HEIGHT AT MATURITY AND MAY BE EITHER DECIDUOUS OR EVERGREEN.

BUFFER TYPE C- PLANTING FOR EACH 100 LN FT OF BUFFER
143 LN FT BUFFER = 1.43 COUNT MULTIPLIER
1 CLASS A OR 2 CLASS B TREES X 1.43 = 2 CLASS A OR 3 CLASS B (3 CLASS B PROVIDED)
2 CLASS B TREES OR 4 LARGE SHRUBS X 1.43 = 3 CLASS B OR 6 LARGE SHRUBS (6 LS PROVIDED)
2 LARGE SHRUBS OR 4 MEDIUM SHRUBS X 1.43 = 3 LARGE SHRUBS OR 6 MEDIUM SHRUBS (6 MS PROVIDED)
4 MEDIUM SHRUBS OR 12 SMALL SHRUBS X 1.43 = 6 MEDIUM SHRUBS OR 18 SMALL SHRUBS (6 MS PROVIDED)
10 SMALL SHRUBS X 1.43 = 15 SMALL SHRUBS

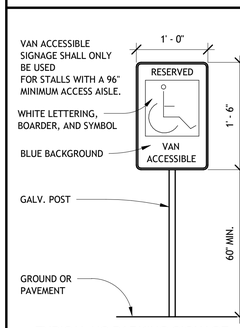
REQUIRED SPACING BETWEEN TREES:
CLASS A - MIN. 40 FT (60' LIVE OAK); MAX. 50 FT
CLASS B - MIN. APPROPRIATE TO SPECIES; MAX. 30 FT SINGLE TREE AND 75' CLUSTER OF THREE OR MORE TREES

MINIMUM HORIZONTAL DISTANCE FROM OVERHEAD UTILITY LINES FROM TREES:
CLASS A 30 FOOT MINIMUM OFFSET FROM OVERHEAD UTILITY LINES
CLASS B 5 FOOT MINIMUM OFFSET FROM OVERHEAD UTILITY LINES

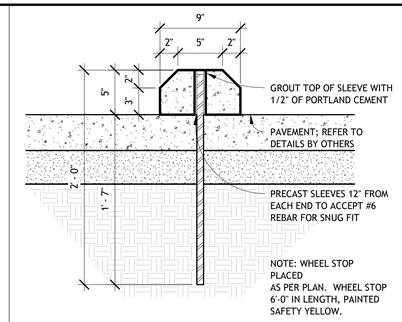


COMMERCIAL DRIVEWAY WIDTH - MIN. 15'; MAX. 35'
30' SIGHT TRIANGLE PROJECTED FROM RIGHT OF WAY LINE AT INTERSECTIONS
COMMERCIAL DRIVEWAYS MUST BE A MIN. 150' FROM A PUBLIC STREET INTERSECTION
THE MAXIMUM SLOPE OF A DRIVEWAY IN THE RIGHT OF WAY IS 1:10

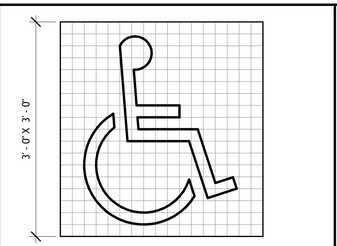
7 SITE PLAN - DEVELOPMENT
1/16" = 1'-0"



12 TYPICAL HC PARKING SIGNAGE
1" = 1'-0"

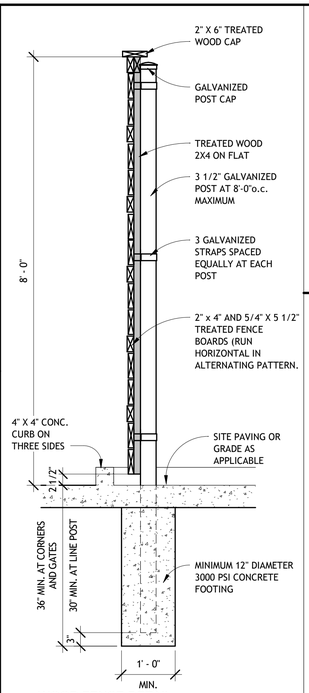


13 WHEEL STOP
1 1/2" = 1'-0"

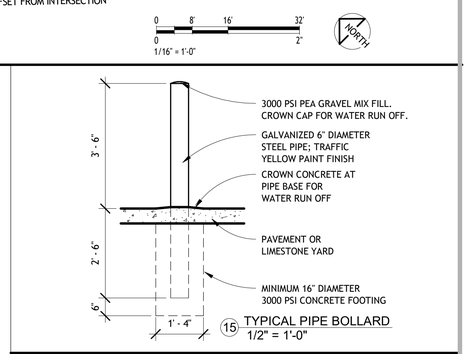


PROPORTIONS:
INTERNATIONAL SYMBOL OF ACCESSIBILITY:
SYMBOLS OF ACCESSIBILITY:
FACILITIES AND ELEMENTS REQUIRED TO BE IDENTIFIED AS ACCESSIBLE SHALL USE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
THE SYMBOL SHALL BE AS SHOWN.

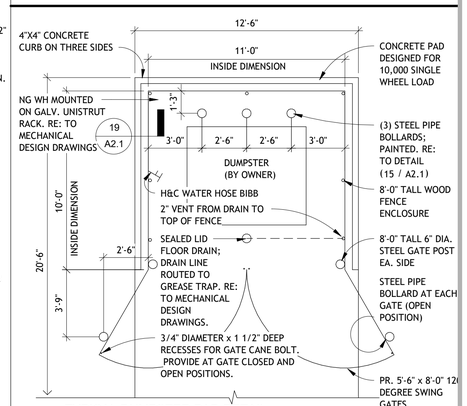
14 TYPICAL HC STALL SYMBOL
1" = 1'-0"



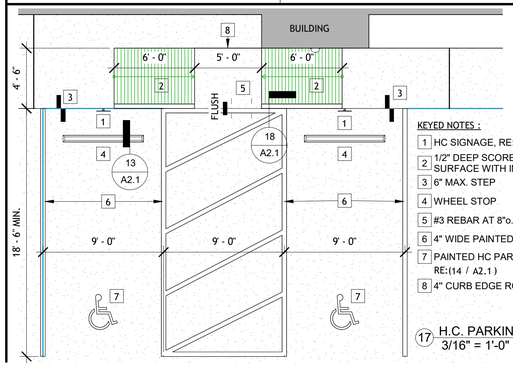
19 WOOD FENCE DETAIL
3/4" = 1'-0"



15 TYPICAL PIPE BOLLARD
1/2" = 1'-0"

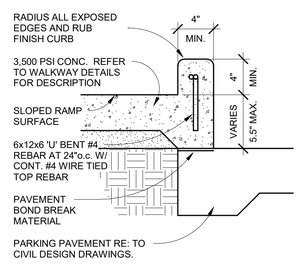


20 TYPICAL DUMPSTER PAD DETAIL
1/4" = 1'-0"



KEYED NOTES :
1. HC SIGNAGE, RE: (12 / A2.1)
2. 1/2" DEEP SCORES AT 3" OC DETECTABLE WARNING SURFACE WITH INTEGRAL CONTRASTING COLOR
3. 6" MAX. STEP
4. WHEEL STOP
5. #3 REBAR AT 8"o.c. AT RAMP LANDING TO PAVING
6. 4" WIDE PAINTED STRIPING
7. PAINTED HC PARKING SYMBOL, RE:(14 / A2.1)
8. 4" CURB EDGE ROLL OFF BARRIER

17 H.C. PARKING
3/16" = 1'-0"



18 ACCESSIBLE RAMP CURB
1 1/2" = 1'-0"

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BRYAN P. BOUDREAUX REG. NO. 6508 STATE OF LOUISIANA REGISTERED ARCHITECT
5/20/2026

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DATE	5-20-26
PROJECT NO.	1161-25

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2 OF 18 SHEETS

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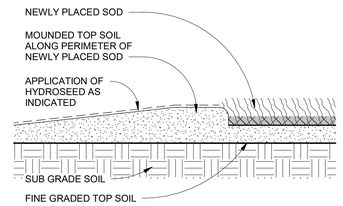
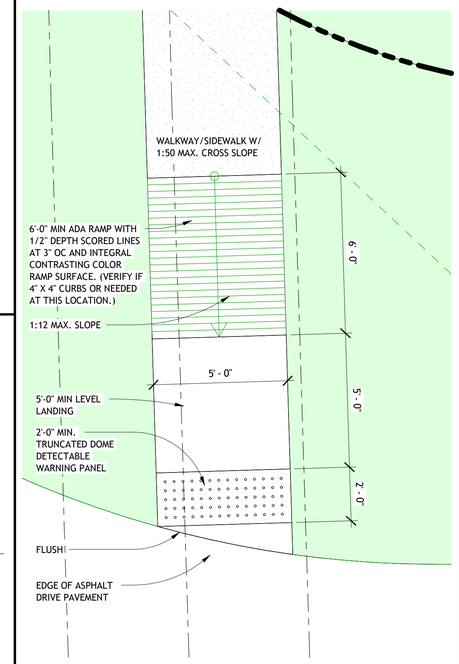
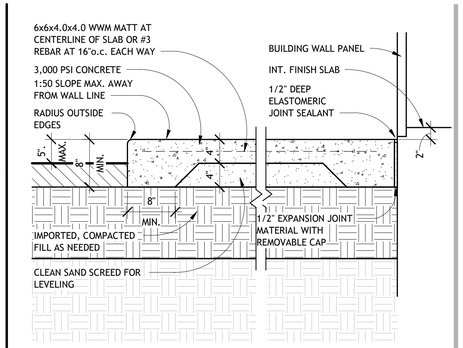


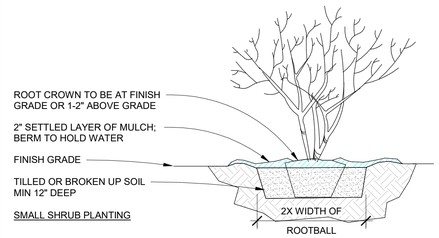
3 BOUNDRY BETWEEN SOD AND HYDROSEED
3" = 1'-0"



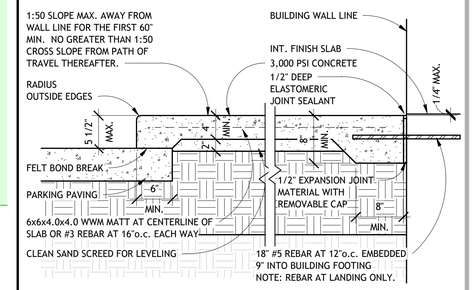
9 SITE PLAN - DEVELOPMENT - SIDEWALK
3/8" = 1'-0"



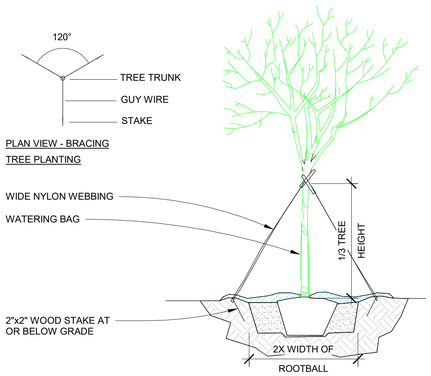
5 WALKWAY DETAIL @ WALL PANEL LEDGE
1" = 1'-0"



SMALL SHRUB PLANTING



10 WALKWAY EDGE DETAIL AT PAVING AND ENTRY DOOR LANDINGS
1" = 1'-0"



NOTES: TREE PLANTING (>2"CAL.)

1. DIG THE PLANTING HOLE A MINIMUM OF 2x WIDTH OF ROOTBALL FOR AT LEAST THE FIRST 12 INCHES OF DEPTH. BELOW 12 INCHES, DIG HOLE WIDE ENOUGH TO PERMIT ADJUSTING. DO NOT DIG THE HOLE DEEPER THAN ROOT BALL DEPTH.

2. SCARIFY THE SUBGRADE AND SIDES OF THE PLANTING HOLE WHEN PLANTING IN CLAY SOILS (MORE THAN 15% CLAY).

3. LIFT AND SET THE TREE BY ROOT BALL ONLY. DO NOT LIFT USING THE TREE TRUNK AND DO NOT USE TREE TRUNK AS A LEVER.

4. SET THE TOP OF THE ROOT BALL LEVEL WITH THE SOIL SURFACE OR SLIGHTLY HIGHER IF THE SOIL IS PRONE TO SETTLING.

5. AFTER THE TREE IS SET IN PLACE, REMOVE BURLAP, WIRE AND STRAPS FROM ATLEAST THE UPPER 1/3 OF THE ROOTBALL.

6. BACKFILL WITH EXISTING SOIL THAT HAS BEEN WELL-TILLED OR BROKEN UP. DO NOT ADD AMENDMENTS TO THE BACKFILL SOIL. AMEND THE SURFACE WITH MULCH.

7. USE THREE 2" X 2" WOOD STAKES DRIVEN INTO UNDISTURBED SOIL A MINIMUM OF 16 INCHES. SPACE STAKES EQUALLY AROUND THE TREE.

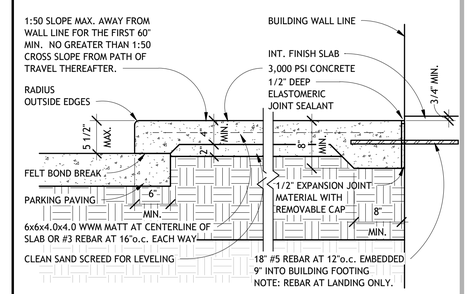
8. ATTACH 3/4" NYLON WEBBING TO CONNECT THE TREE TO STAKES. ATTACH WEBBING AT 1/3 THE TREE HEIGHT.

9. APPLY A 2-3" (SETTLED) DEPTH OF PINE STRAW OR BARK MULCH TO THE PLANTING SURFACE. LEAVE A 2" SPACE AROUND THE TRUNK FOR AIR CIRCULATION.

10. PRUNING SHALL BE LIMITED TO DEAD, DISEASED, OR BROKEN LIMBS ONLY.

11. REMOVE ANY TRUNK WRAP REMAINING AT TIME OF PLANTING.

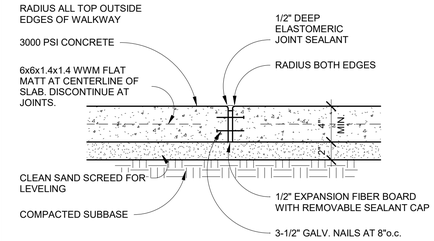
18 TREE PLANTING (TYP.)
1/4" = 1'-0"



15 WALKWAY EDGE DETAIL AT PAVING AND PERIMETER BEYOND ENTRY DOOR LANDINGS
1" = 1'-0"

SCORED CONTROL JOINT EXTEND 1" DEEP MIN. x 1/4" WIDE AT 8'-0"o.c. WITH 1/4" RADIUS EDGES.

LOCATE EJ JOINTS AT 24'-0"o.c. MAXIMUM AND AT CHANGES IN PATH DIRECTION



20 WALKWAY EJ DETAIL
1 1/2" = 1'-0"

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BRYAN P. BOUDREAUX REG. NO. 6508 STATE OF LOUISIANA REGISTERED ARCHITECT
5/20/2026

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3 OF 18 SHEETS

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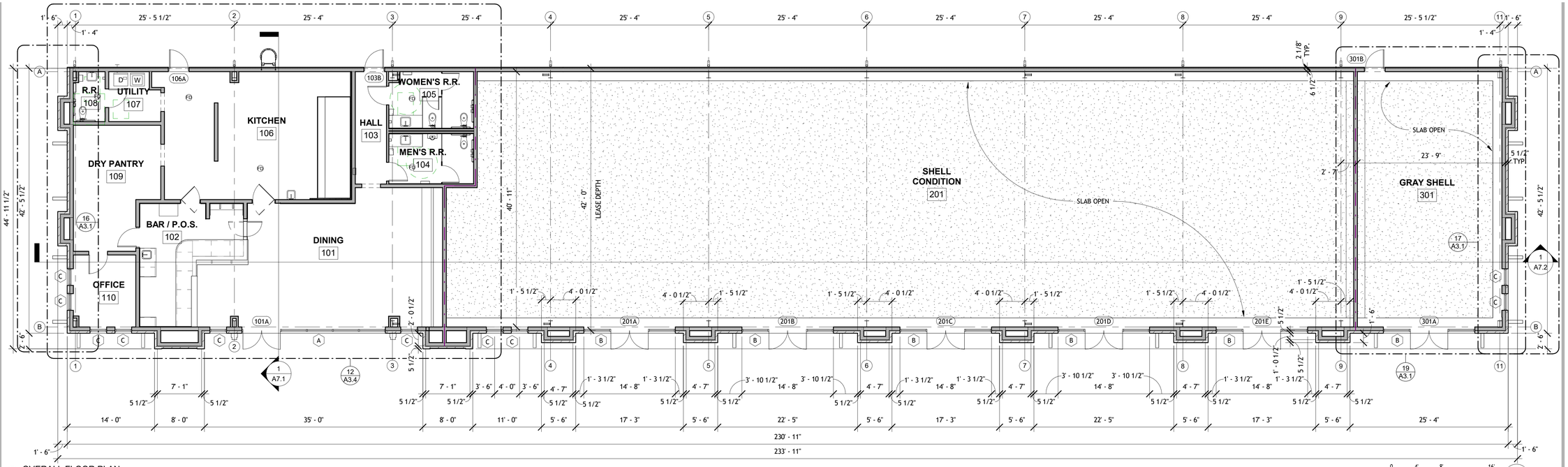
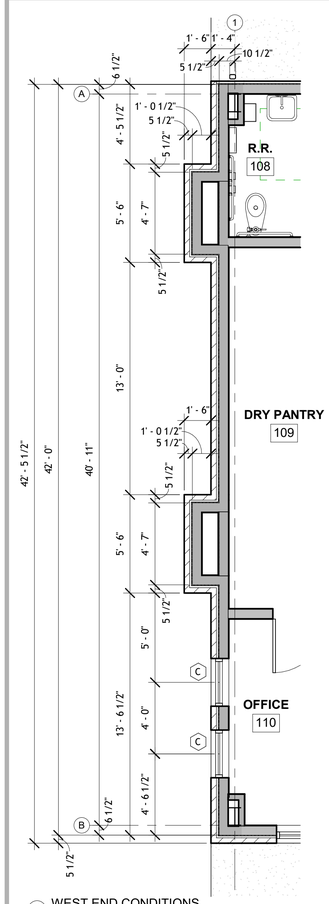
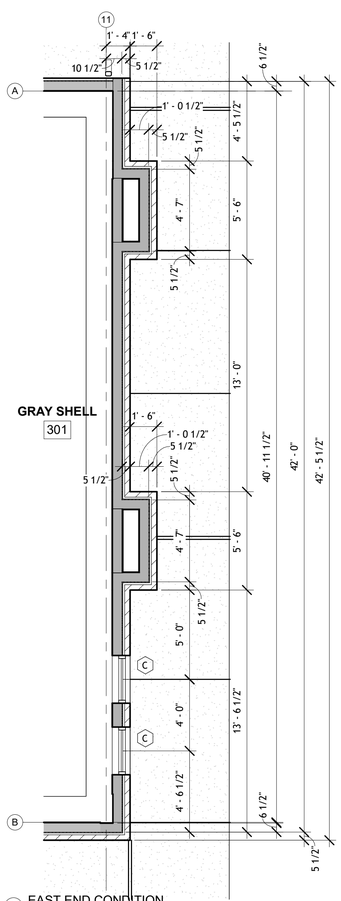


11 OVERALL FLOOR PLAN
1/8" = 1'-0"



16 WEST END CONDITIONS
1/4" = 1'-0"



17 EAST END CONDITION
1/4" = 1'-0"

Area (SQ FT)

AREA	SQUARE FT
BANGKOK THAI	2613 SF
SHELL CONDITION	6039 SF
GRAY BOX	1008 SF
TOTAL UNDER ROOF (+/-) ONE SF DUE TO ROUNDING	9660 SF

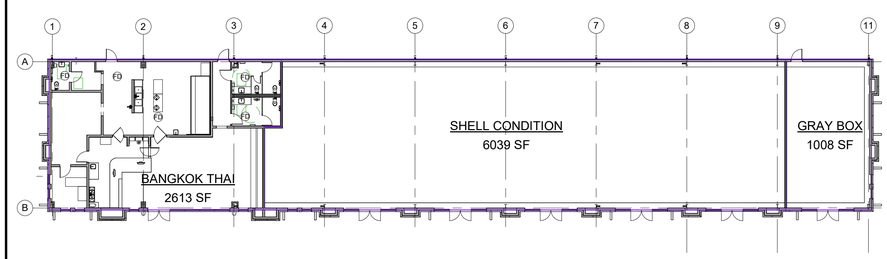
COMPLETE SHELL BUILDING ENVELOPE UNOCCUPIED GREY SHELL SPACE. COMMERCIAL GREY SHELL (OR "COLD SHELL") TENANT SPACE IS UNFINISHED, BLANK INTERIOR LEASE SPACE DELIVERED BY THE LANDLORD. THE GRAY SHELL SPACE FEATURING A SLAB LEAVE-OUT AREA FOR EXTENSION OF BELOW SLAB PIPING AND PARTIAL BARE CONCRETE FLOORS, PERIMETER FRAMED WALLS, AND UTILITY STUBS. IT REQUIRES THE LANDLORD OR TENANT TO INSTALL HVAC, RESTROOMS, ELECTRIC, AND INTERIOR FINISHES TO COMPLETE THE TENANT SPACE FOR OCCUPANCY.

STRUCTURE: CONCRETE SLAB FLOOR (UNFINISHED) AND EXTERIOR WALLS/BARE STUD WALLS

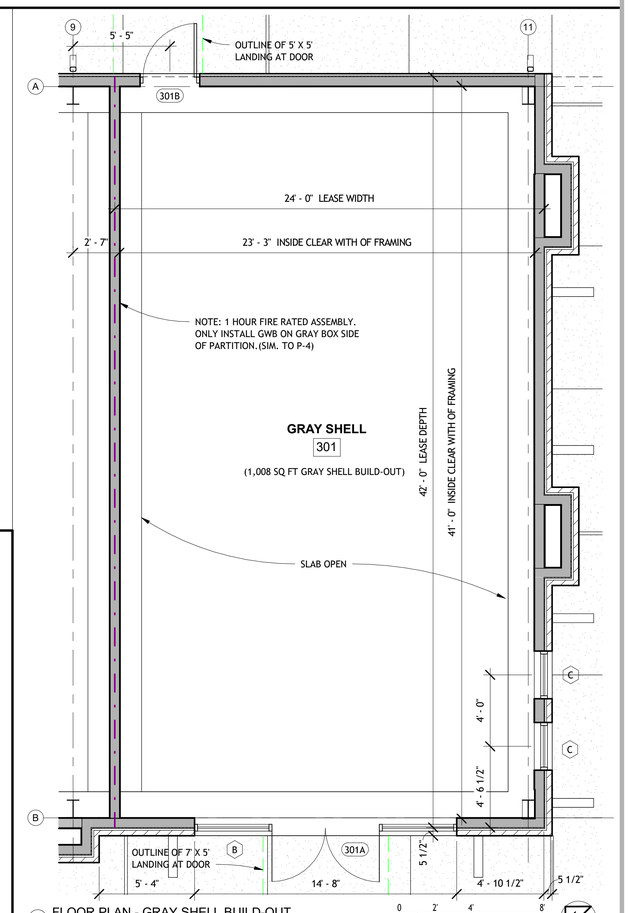
HVAC: NO C/U OR A/H, NO DUCTWORK, CONTROLS, OR DISTRIBUTION

UTILITIES: ELECTRICAL SERVICE, WATER, AND SEWER ARE STUBBED TO THE SPACE BUT NOT DISTRIBUTED

INTERIOR: NO PLUMBING, ELECTRICAL OUTLETS, CEILING GRID, LIGHTING, OR INTERIOR WALLS



18 AREA PLAN (GROSS)
1" = 20'-0"



19 FLOOR PLAN - GRAY SHELL BUILD-OUT
1/4" = 1'-0"

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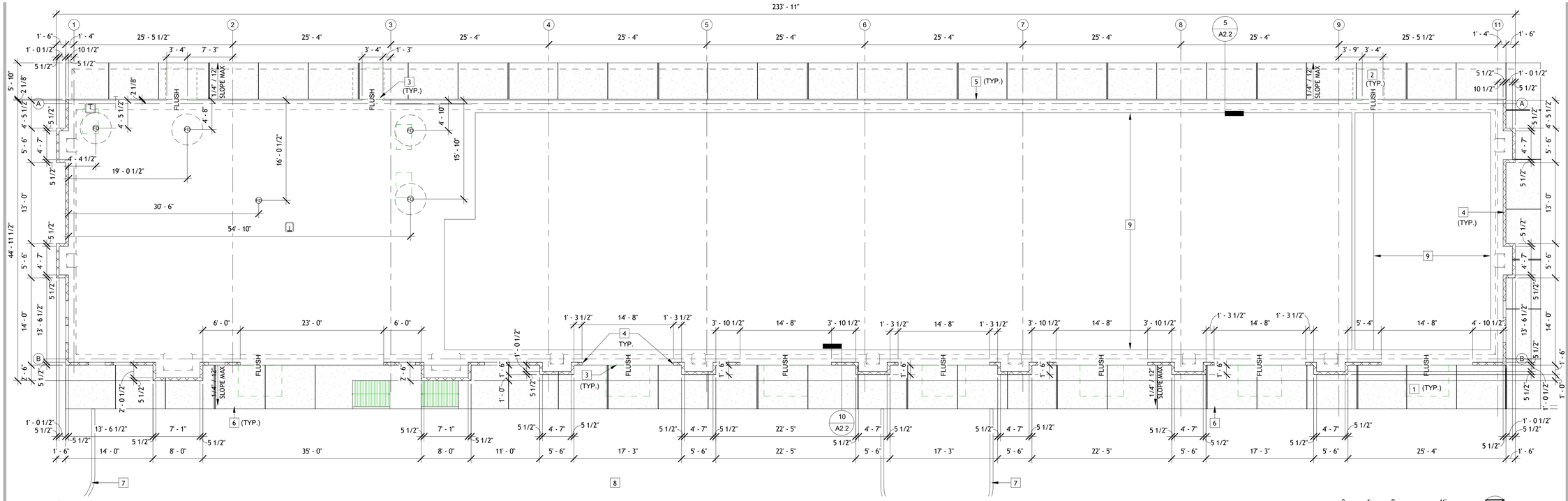


11 SLAB PLAN
1/8" = 1'-0"

KEYED (ROOF PLAN) NOTES:

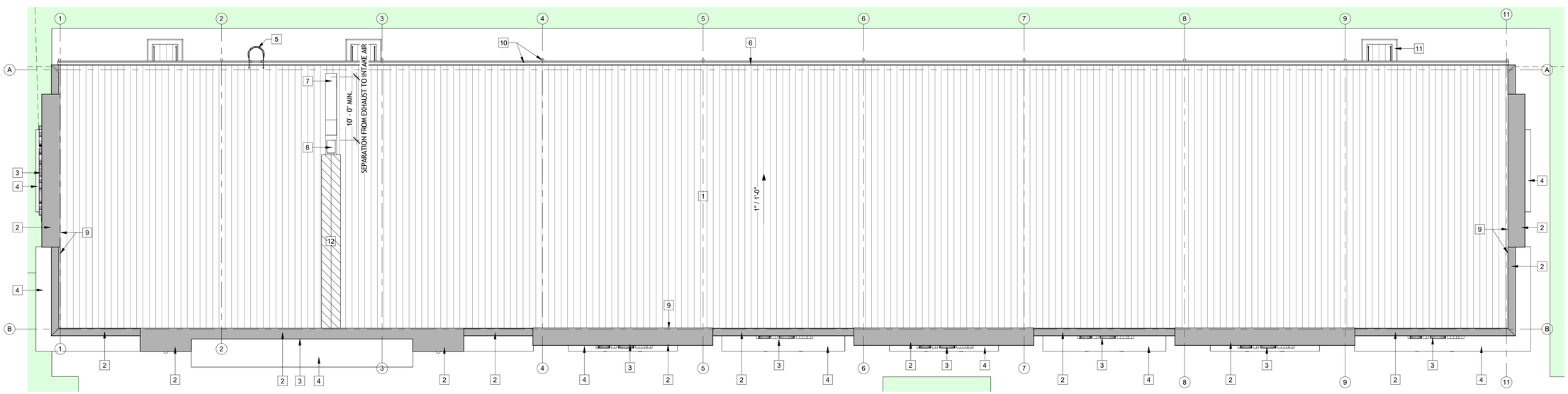
1. 26 GA. PEMB METAL ROOF.
2. PRE-FINISHED METAL PARPET CAP
3. BUILDING MOUNTED SIGN BY OWNER, PROVIDE JUNCTION BOX AND POWER FOR OWNER'S SIGN, V.O.J.
4. PREFINISHED METAL AWNING.
5. CAGED SAFETY ACCESS LADDER.
6. PEMB METAL WALL PANELS ON NORTH EXTERIOR ELEVATION.
7. INTAKE DUCT.
8. EXHAUST FAN.
9. PEMB METAL WALL PANELS ON INTERIOR OF PARAPET WALL.
10. GUTTER AND DOWNSPOUTS.
11. METAL BUILDING MARQUEE AWNINGS. (TYP.)
12. SHEET METAL PAN TO COVER ROOF PANEL RIDGES FOR WATER TO RUN OFF PAST ROOF PENETRTATION CURB.

0 4' 8' 16'
0 2'
1/8" = 1'-0"

NORTH

KEYED (SLAB PLAN) NOTES:

1. OUTLINE OF 7'X5' FLUSH LANDING AT DOORS (TYP.)
2. OUTLINE OF 5'X5' FLUSH LANDING AT DOORS (TYP.)
3. 0.5" MAX. ELEVATION CHANGE STEP DOWN TO CONCRETE LANDING.(TYP.)
4. BRICK VENEER RECESSED SHELF DISCONTINUED AT DOOR AND STOREFRONT OPENING. (TYP.)
5. 1.5" DEEP X 1.5" WIDE RECESSED PEMB SHELF (TYP.)
6. MAX. 6" STEP DOWN FROM WALKWAY TO ADJACENT VEHICLE USE PAVEMENT (TYP.)
7. PARKING PAVEMENT CURB (TYP.) REFER TO CIVIL DESIGN DRAWINGS.
8. PARKING PAVEMENT LAYOUT. REFER TO CIVIL DESIGN DRAWINGS.
9. SLAB OPEN.



1 OVERALL ROOF PLAN
1/8" = 1'-0"

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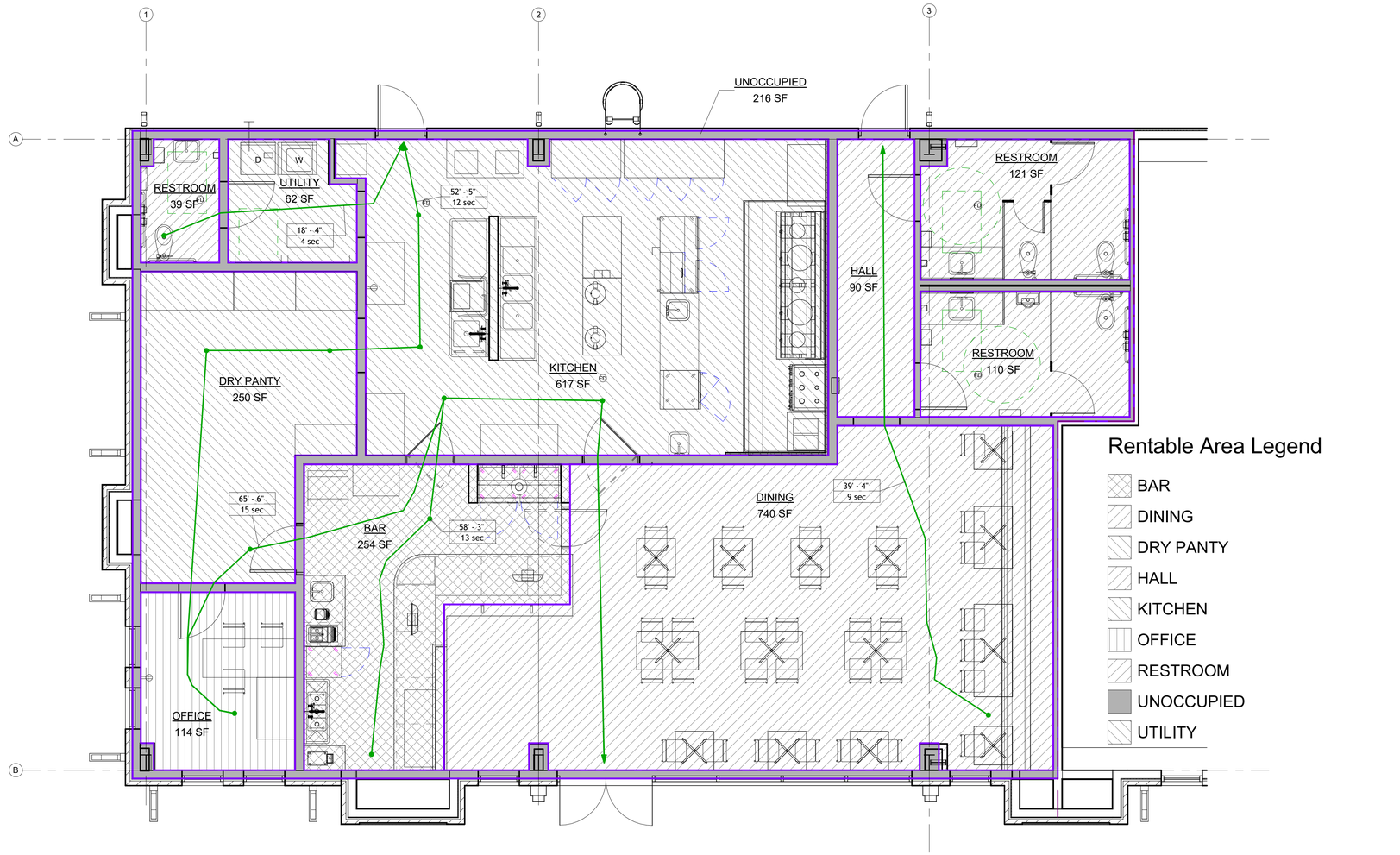

Rentable Area Legend

- BAR
- DINING
- DRY PANTY
- HALL
- KITCHEN
- OFFICE
- RESTROOM
- UNOCCUPIED
- UTILITY

12 FLOOR PLAN - AREA CALCULATION
1/4" = 1'-0"

0 2' 4' 8'
0 2'
1/4" = 1'-0"
NORTH

PLUMBING FIXTURE COUNT
OCCUPANCY - ASSEMBLY A-2 (RESTAURANT) = **72 TOTAL OL**
WATER CLOSETS - MALE AND FEMALE = 1/75
LAVATORIES - MALE AND FEMALE = 1/200
DRINKING FOUNTAIN = 1/500 (FREE DRINKING WATER AVAILABILITY FOR ALL REQUESTS)
SERVICE SINK = 1 (ONE PROVIDED)

OCCUPANCY LOAD **36** MALE AND **36** FEMALE

ONE WATER CLOSETS REQUIRED PER MALE / FEMALE RESTROOM; TWO PROVIDED

ONE LAVATORY REQUIRED PER MALE / FEMALE RESTROOM

OCCUPANCY - ASSEMBLY TYPE A-2
NFPA AUTOMATIC FIRE SUPPRESSION SYSTEM REQUIRED IS OCCUPANCY LOAD IS 300 OR GREATER
IBC AUTOMATIC FIRE SUPPRESSION SYSTEM REQUIRED IF THE FIRE AREA EXCEEDS 5000 SQ FT OR AN OCCUPANCY LOAD OF 100 OR MORE
(2,613 SQ FT AND TOTAL OCCUPANCY LOAD = 72)
NFPA AND IBC FIRE ALARM SYSTEM REQUIRED IF THE TOTAL ASSEMBLY OCCUPANCY LOAD IS 300 OR MORE
MAX. COMMON PATH OF TRAVEL TO AN EXIT ≤50 OL = 75'. 20' FOR OL ≥50
DEAD END CORRIDORS SHALL NOT EXCEED 20'
200' TOTAL TRAVEL DISTANCE LIMIT
MIN. MEANS OF EGRESS WIDTH: 98x0.2" PER PERSON = 20" MINIMUM EGRESS CLEAR WIDTH REQUIRED (102" EGRESS WIDTH PROVIDED)

NET AREA OCCUPANCY SCHEDULE

AREA	LOAD	SQUARE FT	OCCUPANCY
DINING	15	740	50
BAR	100	254	3
KITCHEN	100	617	7
DRY PANTY	100	250	3
UTILITY	100	62	1
OFFICE	100	114	2
HALL	100	90	1
RESTROOM	100	270	5
UNOCCUPIED	0	216	0
TOTAL OCCUPANT LOAD		2613	72

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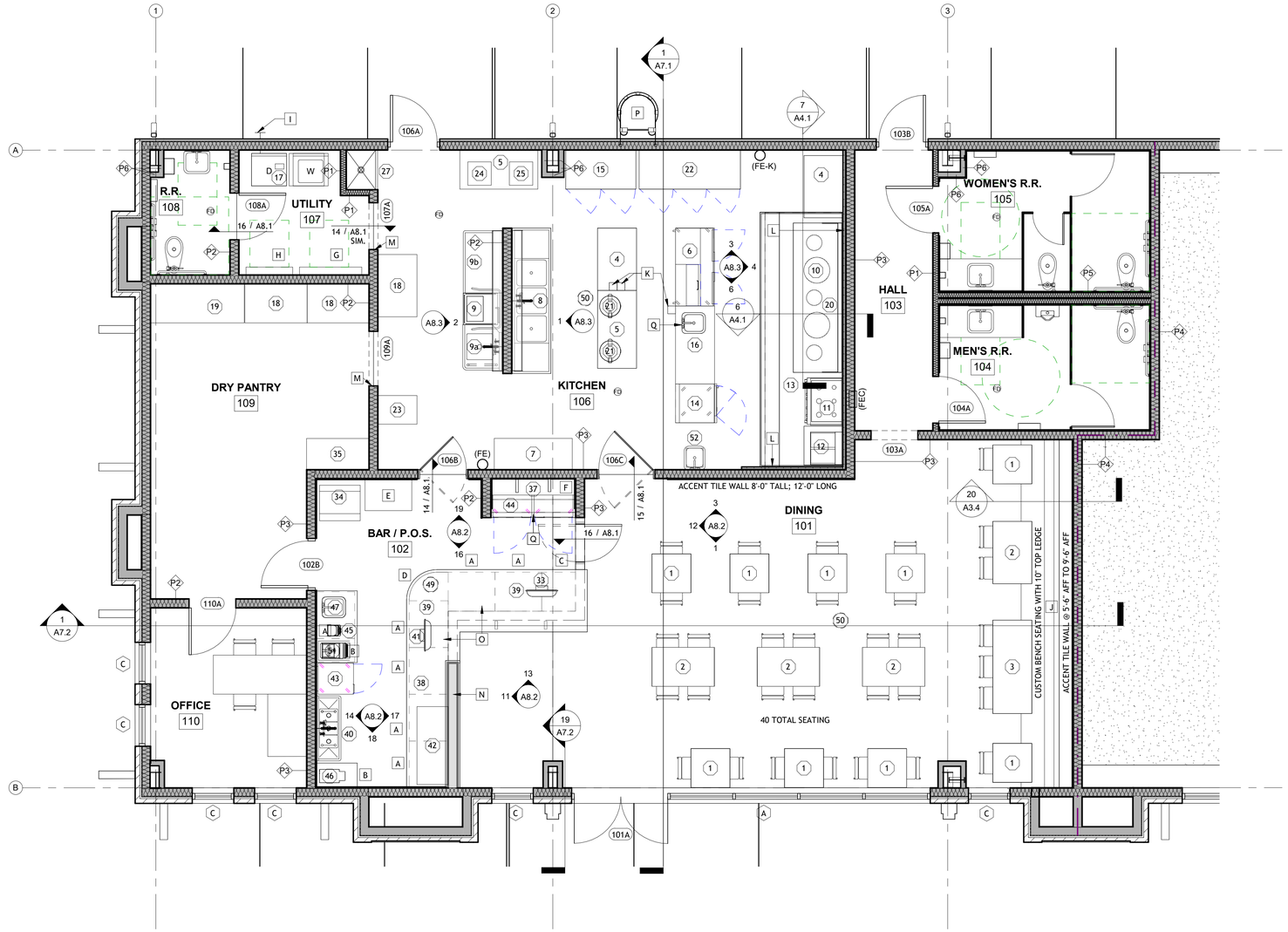
KEYED EQUIPMENT SCHEDULE

Mark	Description Type	Count	Cutsheet
1	2-TOP TABLE	9	
2	4-TOP TABLE	4	
3	6-TOP TABLE	1	
4	4'-0" x 2'-6" PREP STATION	2	
5	6'-0" x 2'-6" PREP STATION	2	
6	SANDWICH FRIDGE	1	PROVIDED
7	5'-0" x 2'-0" SHELF UTILITY	1	
8	3 COMPARTMENT SINK (9'-4")	1	PROVIDED
9	DISHWASHER	1	PROVIDED
9a	3'-0" DISHTABLE WITH SINK	1	PROVIDED
9b	3'-6" RACK DISHTABLE	1	PROVIDED
10	CHINESE WOK RANGE (115"W x 42"D x 62"H)	1	PROVIDED
11	6 BURNER RANGE - 36" NATURAL GAS	1	PROVIDED
12	COUNTERTOP ELECTRIC FRYER (18"W x 22"D x 18"H) 32" CLEAR HT	1	PROVIDED
13	HOOD CANOPY ABOVE	1	PROVIDED BY MECHANICAL ENG.
14	TOP FREEZER / BOTTOM FRIDGE (30"W x 35" D X 66"H) 20 cu.ft.	1	PROVIDED
15	54" REFIGERATOR (2 DOOR)	1	PROVIDED
16	5'-0" x 2'-6" PREP STATION WITH BUILT-IN SINK (RIGHT)	1	PROVIDED
17	WASHER (TOP LOAD) & DRYER (FRONT LOAD)	2	PROVIDED
18	4'-0" x 2'-6" SHELF UNIT	3	
19	6'-0" x 2'-6" SHELF UNIT	1	
20	BUILT IN ANSUL FIRE SUPPRESSION SYSTEM	1	
21	RICE COOKER AND RICE WARMER	2	PROVIDED
22	78" REFIGERATOR (3 DOOR)	1	PROVIDED
23	ICE MACHINE (22"W x 24"D) AIR COOLED WITH BIN	1	PROVIDED
24	MEAT CUTTER MACHINE (TABLETOP)	1	PROVIDED
25	VEGETABLE SLICER (TABLETOP)	1	PROVIDED
27	FLOOR MOP SINK (24" x 24" x 12" S.S. ONE COMPARTMENT	1	PROVIDED BY MECHANICAL ENG.
33	P.O.S. / CHECKOUT STATION (RESTURANT)	1	PROVIDED
34	COKE MACHINE 30" W x 24" D x 43"H (FREE STANDING) w/ BIN	1	PROVIDED
35	COKE MACHINE (CO2 & SYRUP BOX) RACK	1	PROVIDED
37	WINE & BEER DISPLAY BAR WITH GLASS SHELVES	1	
38	13'-0" x 2'-6" BASE CABINET WITH TEA PREP COUNTER (3'-0" HT)	1	
39	2'-6"D BASE CABINET WITH (NATURAL STONE) 2'-10" ADA HT COUNTER	2	
40	3 COMPARTMENT SINK (4'-6") S.S. WITH LEGS	1	PROVIDED
41	P.O.S. / CHECKOUT STATION (TEA BAR)	1	PROVIDED
42	5'-0" WIDE TEA RACK (CUSTOM WOOD BUILT) COUNTERTOP	1	PROVIDED
43	24"W x 30"D x 38-3/4" GLASS DOOR BCK BAR REF. WITH S.S. COUNTER	1	PROVIDED
44	61"W x 26"D x 36-1/4"h REF. GLASS DOOR BCK BAR REF. WITH S.S. COUNTER	1	PROVIDED
45	BLENDER (COUNTERTOP)	1	PROVIDED
46	FILTERED WATER DISPENSER 18" SQ. WITH (1/4" WATER LINE)	1	PROVIDED
47	54" W x 30"D BASE CABINET WITH (NATURAL STONE) TOP AND HAND SINK	1	
49	WIFI ROUTER	1	PROVIDED
50	WIFI REPEATER	2	
51	COFFEE MAKER	1	
52	HAND SINK STAINLESS STEEL WALL MOUNT	1	PROVIDED BY MECHANICAL ENG.

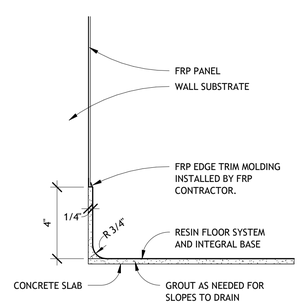
KEYED (FLOOR PLAN) NOTES -
G.C. PROVIDED AND INSTALLED:

- A — 3'-0"W x 2'-6"D x 2'-10" MAX. [ADA HT] PLASTIC LAMINATE (DOUBLE DOOR) BASE CABINET WITH NATURAL STONE COUNTERTOP (3CM MIN.), RE: MILWORK DETAILS
- B — 1'-6"W x 2'-6"D x 2'-10" MAX. [ADA HT] PLASTIC LAMINATE (OPEN SHELF) BASE CABINET WITH NATURAL STONE COUNTERTOP (3CM MIN.), RE: MILWORK DETAILS
- C — 2'-2"W x 2'-6"D x 2'-10" MAX. [ADA HT] PLASTIC LAMINATE (OPEN SHELF) BASE CABINET WITH NATURAL STONE COUNTERTOP (3CM MIN.), RE: MILWORK DETAILS
- D — 1'-10"W x 2'-6"D x 2'-10" MAX. [ADA HT] PLASTIC LAMINATE (OPEN SHELF) RADIUS BASE CABINET WITH NATURAL STONE COUNTERTOP (3CM MIN.), RE: MILWORK DETAILS
- E — 3'-0"W x 2'-0"D x 8'-0" PLASTIC LAMINATE (OPEN SHELF) TALL CABINET, RE: MILWORK DETAILS
- F — GLASS SHELVES, RE: MILWORK DETAILS
- G — ELECTRICAL PANEL
- H — PHONE PANEL
- I — DRYER VENT
- J — 22'-4"W x 3'-4"D x 6'-0"H CUSTOM BENCH SEATING, RE: MILWORK DETAILS
- K — POWER POLE FROM CEILING. RE:TO ELECTRICAL DESIGN DRAWINGS.
- L — STAINLESS STEEL WALL SHEET. EXTEND FROM FINISH FLOOR TO 18" ABOVE THE BOTTOM OF THE HOOD MINIMUM. EXTEND 18" ALONG WALL BEYOND EACH SIDE OF HOOD MINIMUM.
- M — FIELD COORDINATE HOW TO TERMINATE VINYL BASE AND INTEGRATED RESIN COVE AT CASED OPENINGS WITH ARCHITECT.
- N — 5'-0" TALL WALL
- O — 2'-8" TALL WALL WITH 2" BAR FOR 2'-10" ADA HEIGHT
- P — CAGED SAFETY ACCESS LADDER
- Q — STAINLESS STEEL POST FIXED TO STRUCTURE ABOVE CEILING TO FLOOR FOR PIPING TO BE ATTACHED TO FOR PREP SINK. RE: TO MECHANICAL DESIGN DRAWINGS.



12 KITCHEN EQUIPMENT FLOOR PLAN
1/4" = 1'-0"

0 2' 4' 8'
0 2'
1/4" = 1'-0"
NORTH



17 RESIN AND FRP BASE
3" = 1'-0"

ROOM SIGNS:
BEST SIGN SYSTEMS GRAPHIC BLAST MP OR EQUIVALENT.

INSTALL ROOM SIGNS AT ALL EXITS AND PUBLIC RESTROOMS. RESTROOMS SHALL BE DESIGNATED MEN AND WOMEN WITH INTERNATIONAL HC SYMBOL.
EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANCY LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT. THE ROOM SIGN SHALL READ '(NUMBER) PERSON MAXIMUM OCCUPANT CAPACITY'. THE OCCUPANT CAPACITY WILL BE SET BY THE LSFM INSPECTION OFFICER UPON FINAL INSPECTION.

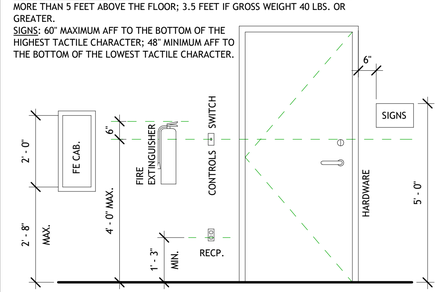
ALL SIGNS SHALL BE VINYL FOAM TAPE MOUNTED WITH 1/2" RADIUS CORNERS, 3/8" RAISED BOARDER, AND BRAILLE DOTS. SIGN COLORS SHALL BE VERIFIED DURING SHOP DRAWING REVIEW. (EX. BLACK BACKGROUND WITH WHITE LETTERING)

FIRE EXTINGUISHER:
FIRE EXTINGUISHER: (FE)
LARSEN'S MP10 (10 LBS. A,B,C) OR APPROVED EQUIVALENT WITH STANDARD BRACKET 5525

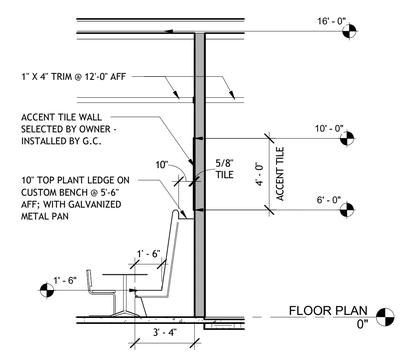
FIRE EXTINGUISHER: (FE-K)
WC2.5 (2.5 GAL. CLASS A,K) WITH STANDARD WALL MOUNTING BRACKET AT 48" AFF. INSTALL SIGN ABOVE FE-K WHICH READS 'USE ONLY AFTER THE SUPPRESSION SYSTEM HAS ACTIVATED'.

FIRE EXTINGUISHER AND CABINET:
CABINET : (FEC)
LARSEN'S GEMINI SERIES FIRE EXTINGUISHER CABINETS OR APPROVED EQUIVALENT. SEMI-RECESSED MOUNTED WITH ALUMINUM TRIM. THE FOLLOWING SELECTIONS SHALL BE VERIFIED DURING SHOP DRAWING REVIEW - (EX. FULL PANEL GRAY ACRULIC DOOR WITH WHITE HORIZONTAL LETTERING.)

CONTROLS AND OPERATING MECHANISMS:
FORWARD REACH: CONTROLS AND OPERATING MECHANISMS SHALL BE LOCATED WITHIN THE REACH RANGE SHOWN.
SIDE REACH: SIDE REACH RANGE MAXIMUM HEIGHT MAY BE INCREASED TO 54" AFF AND MINIMUM AFF MAY BE REDUCED TO 9" AFF.
DOOR HARDWARE: ALL LATCH SET HARDWARE SHALL BE A.D.A. COMPLIANT LEVER HANDLES.
TOP OF FIRE EXTINGUISHER: A GROSS WEIGHT LESS THAN 40 LBS. SHALL BE NOT MORE THAN 5 FEET ABOVE THE FLOOR; 3.5 FEET IF GROSS WEIGHT 40 LBS. OR GREATER.
SIGNS: 60" MAXIMUM AFF TO THE BOTTOM OF THE HIGHEST TACTILE CHARACTER; 48" MINIMUM AFF TO THE BOTTOM OF THE LOWEST TACTILE CHARACTER.



19 TYPICAL MOUNTING HEIGHTS
1/2" = 1'-0"



20 BENCH SECTION
1/4" = 1'-0"

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MANISUP
4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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BRYAN P. BOUDREAUX REG. NO. 6608 STATE OF LOUISIANA REGISTERED ARCHITECT
5/20/2026

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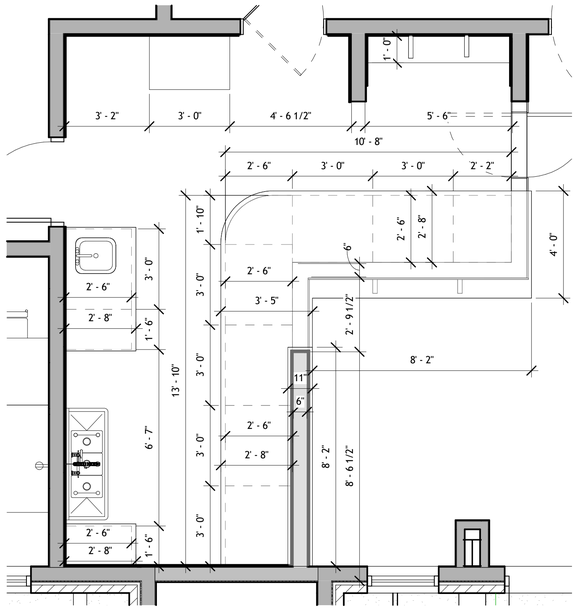
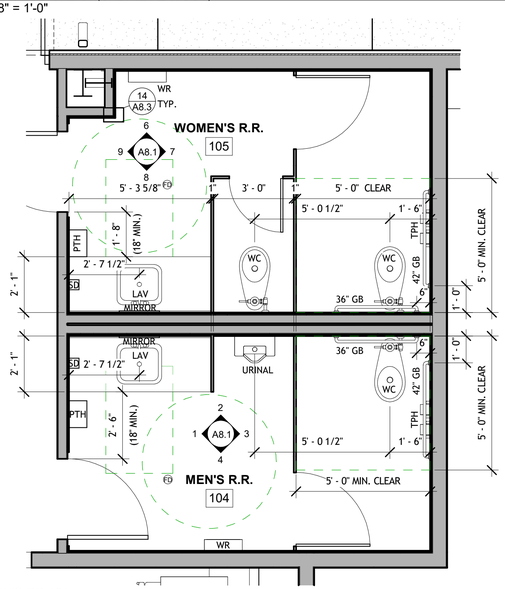
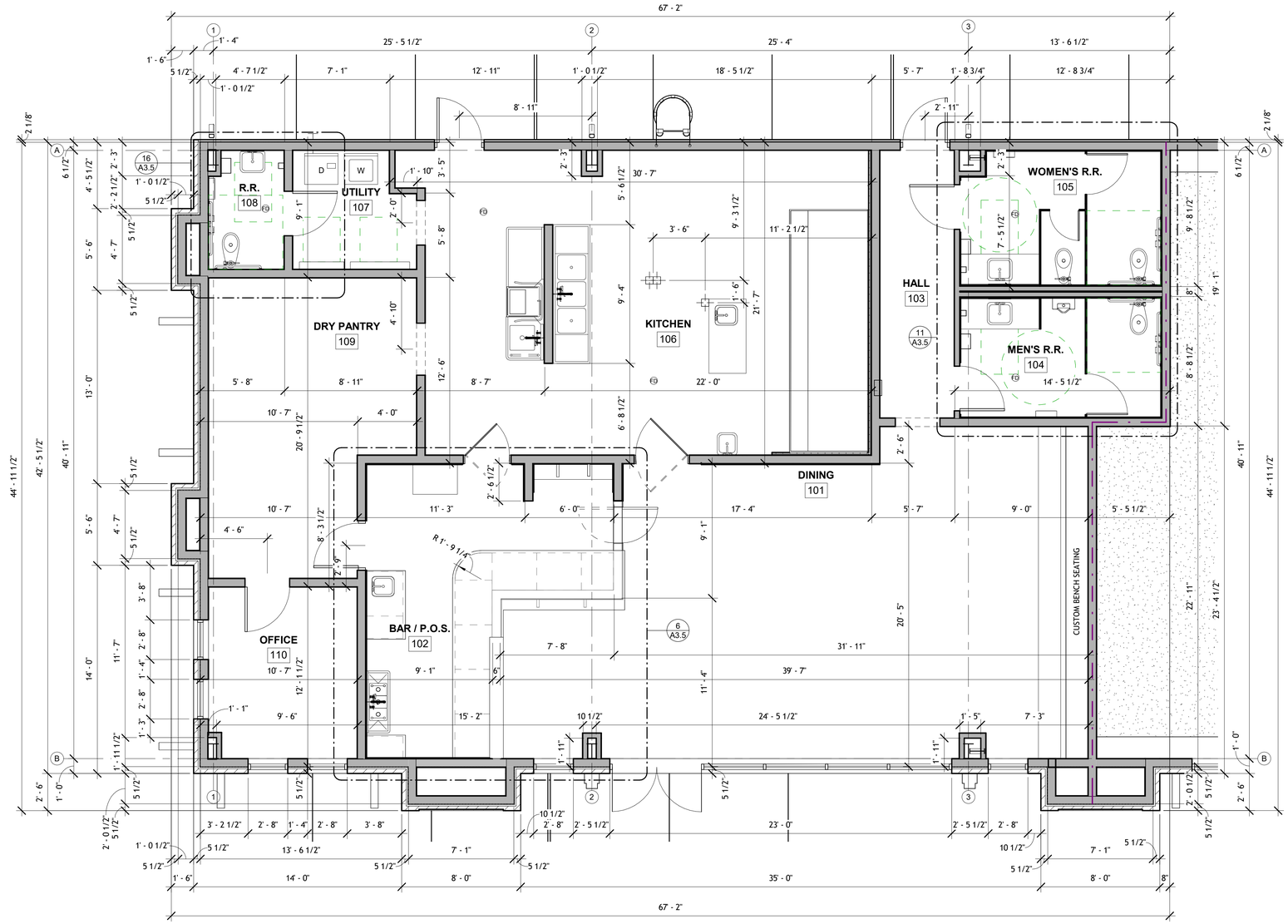


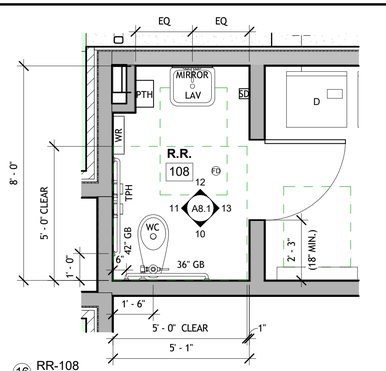
6 BAR FLOOR PLAN (CABINET LAYOUT)
3/8" = 1'-0"



11 MEN'S RR-104
3/8" = 1'-0"



12 FLOOR PLAN - DIMENSIONED
1/4" = 1'-0"



16 RR-108
3/8" = 1'-0"

RESTROOM ACCESSORIES:
ITEMS C, D, AND E SHALL BE VERIFY WITH OWNER FOR PREFERENCE PRIOR TO ORDERING

A- GRAB BARS (GB) - BRADLEY MODEL 812
B- MIRROR - BRADLEY MODEL 780 (SEE ELEVATIONS FOR SIZE)
C- TOILET PAPER HOLDER (TPH) - TWIN BATH TISSUE ROLL DISPENSER - TORK 59TR - INSTALL WITH TWO ROLLS TM1616S
D- PAPER TOWEL DISPENSER (PTD) - MECHANICAL HAND TOWEL ROLL DISPENSER - TORK 772728 - INSTALL WITH ONE ROLL 7171040
E- SOAP DISPENSER (SD) - FOAM SOAP MANUAL DISPENSER - TORK 571508 - INSTALL WITH EXTRA MILD FOAM SOAP 401211
F- WASTE RECEPTACLE (WR) - BRADLEY MODEL 346-11 SURFACE-MOUNTED
WITH VINYL LINER P11-004
G- WASTE RECEPTACLE (WR1) - BRADLEY MODEL 346-10 SEMI-RECESSED WITH VINYL LINER P11-004

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BRYAN P. BOUDREAUX
REG. NO. 6208
STATE OF LOUISIANA
REGISTERED ARCHITECT
5/20/2026

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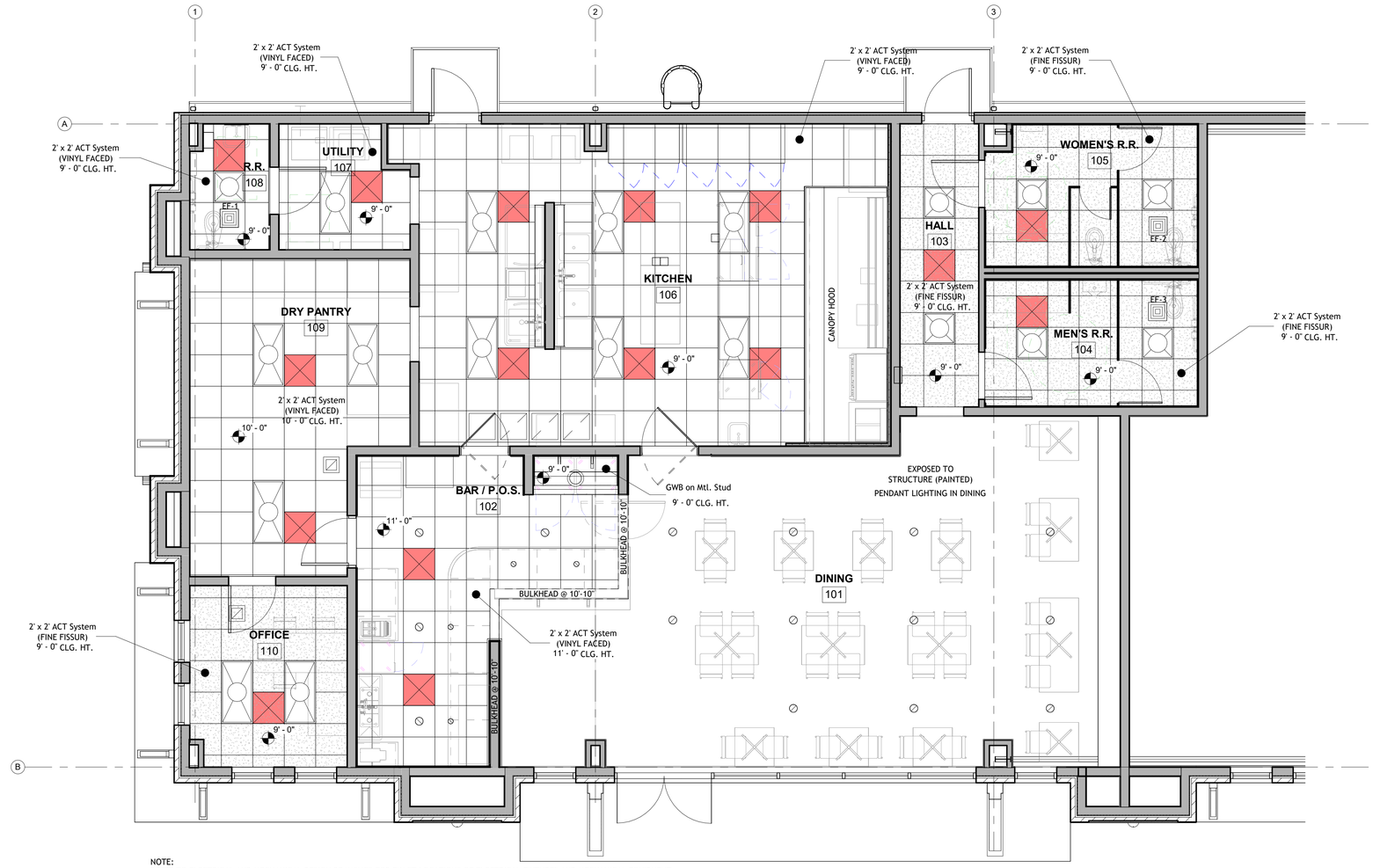

NOTE:
REFER TO ELECTRICAL AND MECHANICAL DESIGN DRAWINGS FOR EXACT LOCATIONS OF ELECTRICAL FIXTURES AND MECHANICAL EQUIPMENT.

12 REFLECTED CEILING PLAN
1/4" = 1'-0"

0 2' 4' 8'
0 2"
1/4" = 1'-0"

NORTH

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RESTAURANT AND LEASE SPACE FOR

MANISUP

4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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BRYAN P. BOUDREAUX
REG. NO. 6508
STATE OF LOUISIANA
REGISTERED ARCHITECT
5/20/2026

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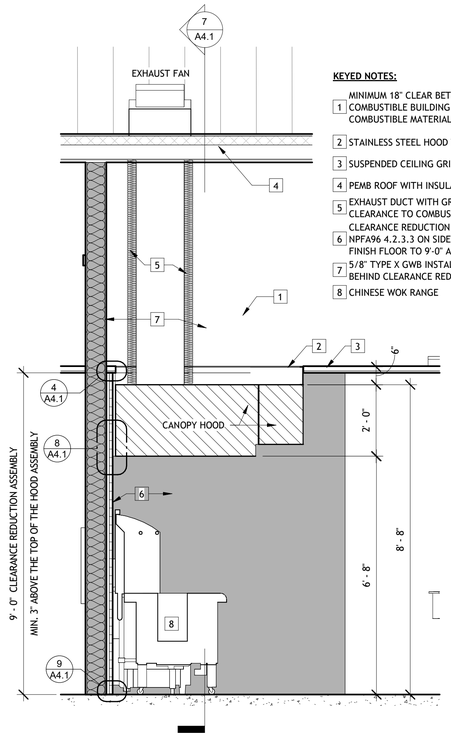
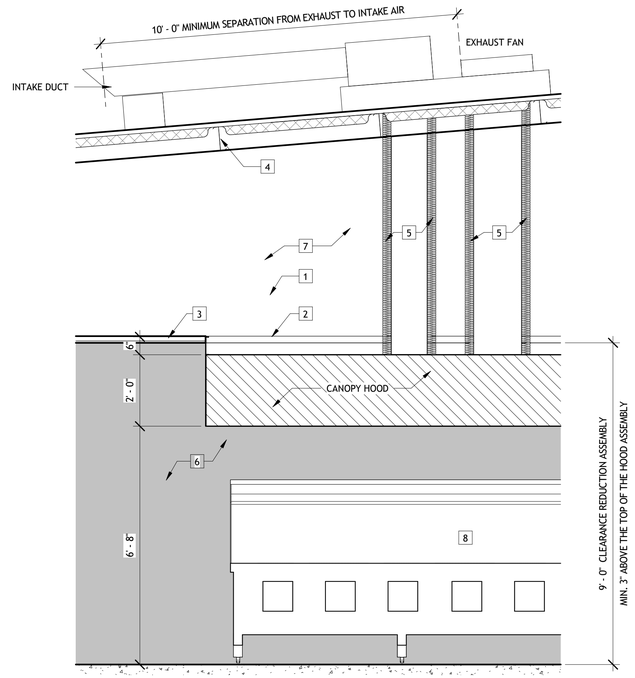


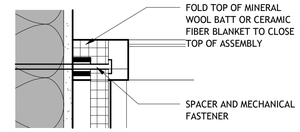
KEYED NOTES:

1. MINIMUM 18" CLEAR BETWEEN HOOD AND UNPROTECTED COMBUSTIBLE BUILDING MATERIAL; 3" TO LIMITED COMBUSTIBLE MATERIAL; 0" TO NONCOMBUSTIBLE MATERIAL.
2. STAINLESS STEEL HOOD TOP SKIRT SURROUND
3. SUSPENDED CEILING GRID AND TILE
4. PEMB ROOF WITH INSULATION
5. EXHAUST DUCT WITH GREASE DUCT WRAP RATED FOR 0 CLEARANCE TO COMBUSTIBLES
6. CLEARANCE REDUCTION ASSEMBLY IN COMPLIANCE WITH NPFA96 4.2.3.3 ON SIDE WALL AND REAR WALL FROM THE FINISH FLOOR TO 9'-0" AFF MIN..
7. 5/8" TYPE X GWB INSTALL FROM FINISH FLOOR TO TOP PLATE BEHIND CLEARANCE REDUCTION ASSEMBLY
8. CHINESE WOK RANGE

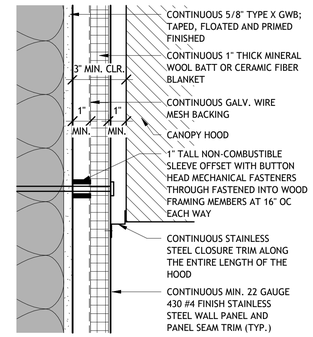
6 CLEARANCE REQUIREMENT FOR COMBUSTIBLE CONSTRUCTION A
1/2" = 1'-0"



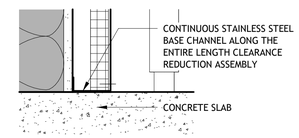
7 CLEARANCE REQUIREMENT FOR COMBUSTIBLE CONSTRUCTION B
1/2" = 1'-0"



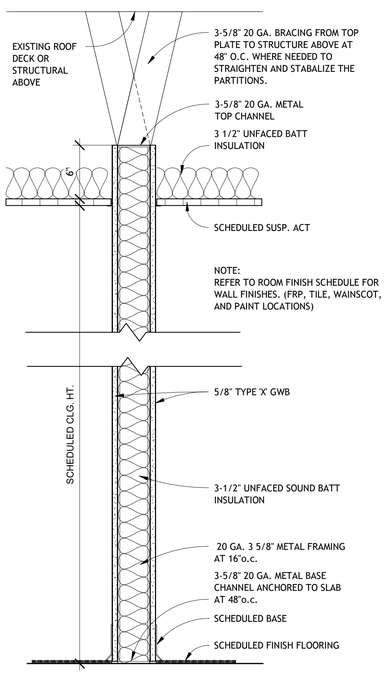
4 SS WALL PANEL TOP TERMINATION
3" = 1'-0"



8 SS WALL PANEL CLOSURE AT HOOD
3" = 1'-0"



9 SS WALL PANEL BASE TERMINATION
3" = 1'-0"

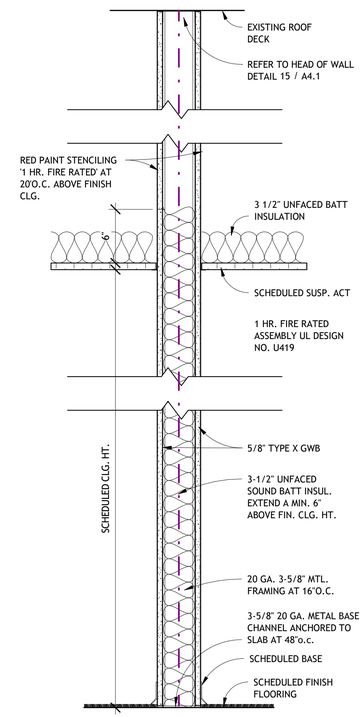


P1

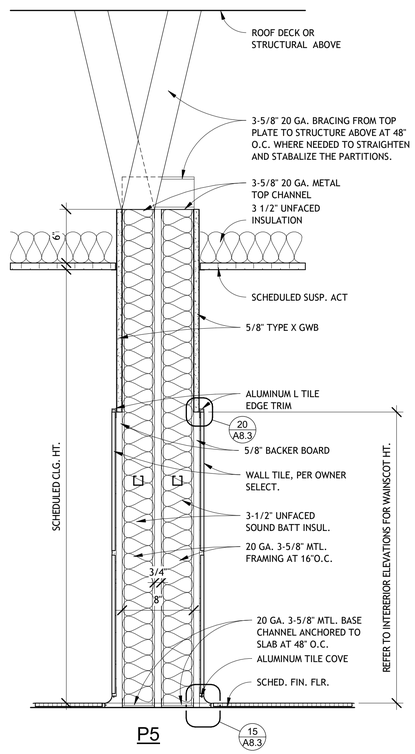
P2 SIMILAR TO P1; SUBSTITUTE 3-5/8" WITH 6" 20 GA. FRAMING

P3 SIMILAR TO P2; WILL GO TO DECK.

P6 SIMILAR TO P1; WILL HAVE GWB ON INTERIOR SIDE ONLY.



P4

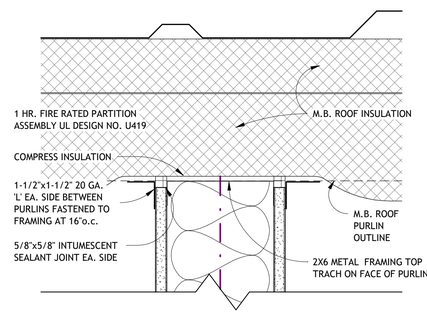


P5

FIRE RATED ASSEMBLY GENERAL NOTES:
FIRE RATED ASSEMBLIES SHALL BE CONTINUOUS ASSEMBLIES FROM FINISH SLAB TO ROOF DECK, FROM EXTERIOR WALL TO EXTERIOR WALL, OR FROM FIRE RATED ASSEMBLY TO FIRE RATED ASSEMBLY.
IDENTIFY ALL FIRE RATED ASSEMBLIES EXTENDING ABOVE THE FINISH CEILING INTO AN ACCESSIBLE ATTIC SPACE WITH RED PAINTED STENCILING AT NOT GREATER THAN 15' FROM THE END OF EACH WALL AND NOT GREATER THAN 30' BETWEEN STENCILING. STENCIL LETTERING SHALL BE A MINIMUM 3" TALL AND 3/8" STROKE. STENCILING SHALL READ '(ASSEMBLY RATING HOURS) FIRE BARRIER/FIRE PARTITION - PROTECT ALL OPENINGS'.

REFER TO IBC SECTION 714 PENETRATION FOR ADDITIONAL DETAILED CRITERIA FOR THE FOLLOW:
THROUGH PENETRATIONS SHALL BE PROTECTED BY A UL LISTED PENETRATION FIRE STOP SYSTEM TESTED TO MAINTAIN THE FIRE RESISTANCE RATING OF THE ASSEMBLY.
AIR DUCTS PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL BE INSTALLED WITH FIRE RATED DAMPER AT THE ASSEMBLY THROUGH PENETRATION.
DEVICE AND SWITCHES RECESS BOX MEMBRANE PENETRATIONS IN FIRE RATED ASSEMBLIES SHALL BE INSTALLED WITH UL LISTED PRODUCTS TESTED TO MAINTAINING THE FIRE RESISTANCE RATING OF THE ASSEMBLY.
REFER TO IBC SECTION 715 JOINTS AND VOIDS FOR ADDITIONAL DETAILED CRITERIA FOR THE FOLLOW:
JOINTS AND VOIDS SHALL BE PROTECTED BY A UL LISTED PENETRATION FIRE STOP SYSTEM TESTED TO MAINTAIN THE FIRE RESISTANCE RATING OF THE ASSEMBLY.
REFER TO IBC SECTION 716 OPENING PROTECTIVES FOR ADDITIONAL DETAILED CRITERIA FOR THE FOLLOW:
DOORS AND GLAZING SHALL COMPLY WITH IBC TABLE 716.1(2) OPENING FIRE PROTECTION ASSEMBLIES, RATINGS AND MARKINGS.

PARTITION TYPE GENERAL NOTES:
INSTALL SOLID WOOD BLOCKING BETWEEN FRAMING OR MIN. 20 GA. SHEET METAL ON FRAMING FOR ALL WALL MOUNTED MILLWORK, RESTROOM ACCESSORIES, ETC.
INSTALL 5/8" MOISTURE RESISTANT TYPE 'X' GWB ON BOTH SIDES OF ALL PLUMBING WALLS AND INTERIOR SIDE OF ALL RESTROOM WALLS.
REFER TO THE ROOM FINISH SCHEDULE FOR GWB APPLIED WALL FINISHING MATERIAL.
CEILING TILE AND CEILING INSULATION SHALL BE CLASS 'A' RATED WITH A FLAME SPREAD OF 0-25 AND A SMOKE DEVELOPMENT OF 0-450.



15 FIRE STOP DETAIL AT M.B. ROOF - 1 HR
3" = 1'-0"

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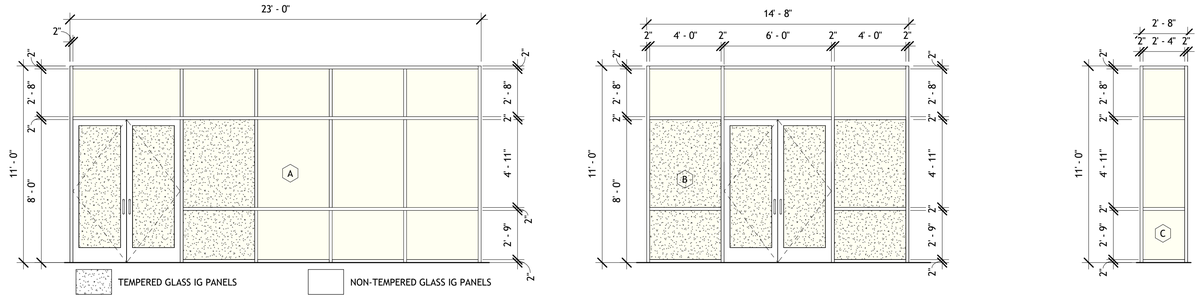
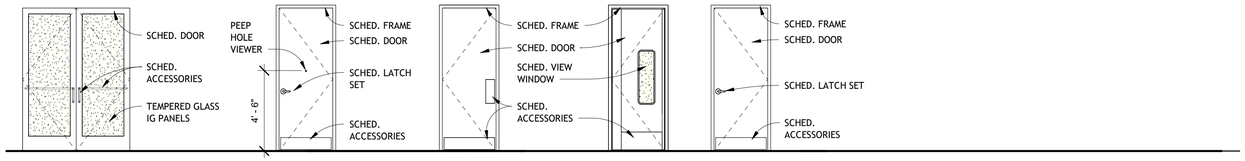
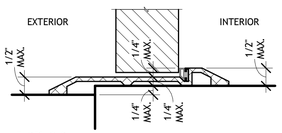


1 WINDOWS AND STOREFRONT TYPES
1/4" = 1'-0"



DOOR TYPES
1/4" = 1'-0"



THRESHOLD:
1:2 BEVELED SLOPE FOR ALL CHANGES IN LEVEL GREATER THAN 1/4". SHALL COMPLY WITH 'CHANGES IN LEVEL' REQUIREMENTS. THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4" IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2" FOR OTHER TYPES OF DOORS.

11 TYPICAL EXTERIOR DOOR THRESHOLD
6" = 1'-0"

Door Hardware Schedule

Mark	Hinge Type	Latchset Type	Auto matic Closer	Fire Rating	Smoke Seals	Weather Seals	Threshold	Stop Type	Accessories	Finish Type	Additional Description
101A	PR. TOP, BOTTOM, AND INTERMEDIATE PIVOT HINGES	EXIT DEVICE PUSH BAR WITH TOP AND BOTTOM FLUSH BOLTS	Yes			Yes	Yes		12" OFFSET EXTERIOR PULL HANDLES	DARK BRONZE	EXIT DEVICE REAR TRIM PLATE; DARK BRONZE FINISH
102B	THREE SETS OF 5 KNUCKLE BALL BEARING HINGES	LEVER HANDLE PASSAGE LATCHSET						WALL	SS 8"X34" KICKPLATE	US32D	DOOR FRAME SILENCERS
103A											N/A - FRAMED OPENING
103B	THREE SETS OF SS 5 KNUCKLE BALL BEARING NRP HINGES	INTERIOR PUSH BAR EMERGENCY EXIT DEVICE; KEYED ENTRY	Yes			Yes	Yes		SS 8"X34" KICKPLATE	US32D	
104A	THREE SETS OF 5 KNUCKLE BALL BEARING HINGES	NONE	Yes					WALL	8"X34" KICKPLATE; 12" CENTER TO CENTER PULL HANDLE ON 6"X16" DOOR PLATE; 6"X16" PUSH PLATES	US32D	STAINLESS STEEL PROTECTION PLATES AND PULL; DOOR FRAME SILENCERS
105A	THREE SETS OF SS 5 KNUCKLE BALL BEARING HINGES	NONE	Yes					WALL	8"X34" KICKPLATE; 12" CENTER TO CENTER PULL HANDLE ON 6"X16" DOOR PLATE; 6"X16" PUSH PLATES	US32D	STAINLESS STEEL PROTECTION PLATES AND PULL; DOOR FRAME SILENCERS
106A	THREE SETS OF SS 5 KNUCKLE BALL BEARING NRP HINGES	INTERIOR PUSH BAR EMERGENCY EXIT DEVICE; KEYED ENTRY	Yes			Yes	Yes		SS 8"X34" KICKPLATE; PEEP HOLE VIEWER	US32D	
106B	CURTRON SYSTEM PIVOT HINGES	NONE	No						CURTRON 12" STAINLESS STEEL KICK PLATES		SELF CLOSING HINGES
106C	CURTRON SYSTEM PIVOT HINGES	NONE	No						CURTRON 12" STAINLESS STEEL KICK PLATES		SELF CLOSING HINGES
107A											N/A - FRAMED OPENING
108A	THREE SETS OF 5 KNUCKLE BALL BEARING HINGES	LEVER HANDLE PRIVACY LATCHSET	No					FLOOR	SS 8"X34" KICKPLATE	US32D	DOOR FRAME SILENCERS
109A											N/A - FRAMED OPENING
110A	THREE SETS OF 5 KNUCKLE BALL BEARING HINGES	LEVER HANDLE OFFICE LATCHSET						FLOOR	SS 8"X34" KICKPLATE	US32D	DOOR FRAME SILENCERS
201A	PR. TOP, BOTTOM, AND INTERMEDIATE PIVOT HINGES	INTERIOR PUSH BAR; KEYED ENTRY EXTERIOR; THUMB TURN INTERIOR	Yes			Yes	Yes		EXTERIOR 12" CENTER TO CENTER OFFSET PULL HANDLES; DARK BRONZE	DARK BRONZE	
201B	PR. TOP, BOTTOM, AND INTERMEDIATE PIVOT HINGES	INTERIOR PUSH BAR; KEYED ENTRY EXTERIOR; THUMB TURN INTERIOR	Yes			Yes	Yes		EXTERIOR 12" CENTER TO CENTER OFFSET PULL HANDLES; DARK BRONZE	DARK BRONZE	
201C	PR. TOP, BOTTOM, AND INTERMEDIATE PIVOT HINGES	INTERIOR PUSH BAR; KEYED ENTRY EXTERIOR; THUMB TURN INTERIOR	Yes			Yes	Yes		EXTERIOR 12" CENTER TO CENTER OFFSET PULL HANDLES; DARK BRONZE	DARK BRONZE	
201D	PR. TOP, BOTTOM, AND INTERMEDIATE PIVOT HINGES	INTERIOR PUSH BAR; KEYED ENTRY EXTERIOR; THUMB TURN INTERIOR	Yes			Yes	Yes		EXTERIOR 12" CENTER TO CENTER OFFSET PULL HANDLES; DARK BRONZE	DARK BRONZE	
201E	PR. TOP, BOTTOM, AND INTERMEDIATE PIVOT HINGES	INTERIOR PUSH BAR; KEYED ENTRY EXTERIOR; THUMB TURN INTERIOR	Yes			Yes	Yes		EXTERIOR 12" CENTER TO CENTER OFFSET PULL HANDLES; DARK BRONZE	DARK BRONZE	
301A	PR. TOP, BOTTOM, AND INTERMEDIATE PIVOT HINGES	INTERIOR PUSH BAR; KEYED ENTRY EXTERIOR; THUMB TURN INTERIOR	Yes			Yes	Yes		EXTERIOR 12" CENTER TO CENTER OFFSET PULL HANDLES; DARK BRONZE	DARK BRONZE	
301B	THREE SETS OF SS 5 KNUCKLE BALL BEARING NRP HINGES	LEVER HANDLE ENTRY LATCHSET	Yes			Yes	Yes		SS 8"X34" KICKPLATE; PEEP HOLE VIEWER	US32D	

Room Schedule

Number	Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height	Comments
101	DINING	CERAMIC TILE	CERAMIC TILE COVE AT TILE, AND 4" VINYL COVE AT GWB	NOTE 3	OPEN TO STRUCTURE	16' - 1"	
102	BAR / P.O.S.	HONED CONCRETE, SEMI-GLOSS	NOTE 1	NOTES 2 AND 4	SUSPENDED ACT AND GRID	11' - 0"	
103	HALL	CERAMIC TILE	4" VINYL COVE	GWB; PAINTED	SUSPENDED ACT AND GRID	9' - 0"	
104	MEN'S R.R.	CERAMIC TILE	CERAMIC TILE COVE	CERAMIC TILE; GWB PAINTED; NOTE 3	SUSPENDED ACT AND GRID	9' - 0"	CERAMIC TILE WAINCOT AT 7' AFF WITH GWB;PAINTED ABOVE
105	WOMEN'S R.R.	CERAMIC TILE	CERAMIC TILE COVE	CERAMIC TILE; GWB PAINTED; NOTE 3	SUSPENDED ACT AND GRID	9' - 0"	CERAMIC TILE WAINCOT AT 7' AFF WITH GWB;PAINTED ABOVE
106	KITCHEN	MONOLITHIC RESINOUS FLOOR SYSTEM WITH INTEGRAL COVE BASE	INTEGRAL COVE BASE RE: TO DETAIL 17/A3.4	9' FRP OVER GWB; MR GWB ON ALL PLUMBING WALLS; STAINLESS STEEL ADJACENT TO COOKING EQ. NOTES 3,4,5	SUSPENDED ACT AND GRID	9' - 0"	
107	UTILITY	HONED CONCRETE, SEMI-GLOSS	4" VINYL COVE	9' FRP OVER GWB; MR GWB ON ALL PLUMBING WALLS; NOTES 3 AND 4	SUSPENDED ACT AND GRID	9' - 0"	
108	R.R.	HONED CONCRETE, SEMI-GLOSS	CERAMIC TILE COVE	GWB; PRIMED;9' TALL FRP	SUSPENDED ACT AND GRID	9' - 0"	INSTALL FRP WITH CAP AND SEAM TRIM
109	DRY PANTRY	HONED CONCRETE, SEMI-GLOSS	4" VINYL COVE	9' FRP OVER GWB;PRIMED; NOTE4	SUSPENDED ACT AND GRID	10' - 0"	
110	OFFICE	HONED CONCRETE, SEMI-GLOSS	4" VINYL COVE	GWB; PAINTED	SUSPENDED ACT AND GRID	9' - 0"	
201	SHELL CONDITION	CONCRETE	NONE	OPEN FRAMING	OPEN TO STRUCTURE		WALL BETWEEN SHELL CONDITION AND GRAY BOX TO HAVE GWB ON 1 SIDEONLY FOR ACCESS DURING FUTURE BUILDOUT
301	GRAY SHELL	CONCRETE	NONE	OPEN FRAMING	OPEN TO STRUCTURE		

ROOM SCHEDULE NOTES:

1. 4" VINYL COVE BASE ON BAR COUNTER BACKSIDE WITH FRP; WOOD SHOE MOLD BASE ON BAR BACK WALL MILLWORK; CERAMIC TILE TO CONCRETE SLAB ON BAR BACK WALL WITH EXCEPTION OF BASE CABINETS.
2. FRP ON BAR COUNTER BACKSIDE. CERAMIC TILE AND GWB; PAINTED ON BAR BACK WALL AND COUNTER END WALLS. REFER INTERIOR ELEVATIONS.
3. REFER TO INTERIOR ELEVATION FOR WALL FINISHES AND WAINSCOT DETAILS
4. FRP - CLASS A (I) 0.090 THICK PEBBLE TEXTURE. PVC MOLDS FOR INSIDE CORNER, OUTSIDE CORNER, PANELS SEAM & TRIM.
5. CONTINUOUS MIN. 22 GAUGE 430 #4 FINISH STAINLESS STEEL WALL PANEL AND PANEL SEAM TRIM ADJACENT TO ALL COOKING EQUIPMENT WALLS

Door Schedule

Mark	Type Mark	Width	Height	Thickness	Door Material	Frame Material	Fire Rating	Description
101A	D	6' - 0"	8' - 0"	1 3/4"	STOREFRONT ENTRY DOOR; TEMPERED 1" COMPOSITE INSULATED FIXED GLASS - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE		NARROW STILE ALUMNINUM ANODIZED FINISH, STOREFRONT ENTRY DOORS
102B	H	3' - 0"	8' - 0"	1 3/4"	SOLID CORE PAINT GRADE FINISH	16 GA. KD HOLLOW METAL; PAINTED		INTERIOR DOOR, FLUSH PANEL; PAINT FINISH
103A		3' - 0"	8' - 0"					WOOD TRIMED FRAMED OPENING
103B	E	3' - 0"	8' - 0"	1 3/4"	INSULATED GALVANIZED HOLLOW METAL	16 GA. KD HOLLOW METAL; PAINTED		EXTERIOR DOOR; FLUSH PANEL; PAINT FINISH WITH PEEP HOLE VIEWER
104A	H	3' - 0"	8' - 0"	1 3/4"	SOLID CORE PAINT GRADE FINISH	16 GA. KD HOLLOW METAL; PAINTED		INTERIOR DOOR, FLUSH PANEL; PAINT FINISH
105A	H	3' - 0"	8' - 0"	1 3/4"	SOLID CORE PAINT GRADE FINISH	16 GA. KD HOLLOW METAL; PAINTED		INTERIOR DOOR, FLUSH PANEL; PAINT FINISH
106A	E	3' - 0"	8' - 0"	1 3/4"	INSULATED GALVANIZED HOLLOW METAL	16 GA. KD HOLLOW METAL; PAINTED		EXTERIOR DOOR; FLUSH PANEL; PAINT FINISH WITH PEEP HOLE VIEWER
106B	G	3' - 0"	8' - 0"	3/4"	ALUMINUM	16 GA. KD HOLLOW METAL; PAINTED		CURTRON PRODUCT SERVICE PRO SERIES 20 WITH 10"W X 30"T TEMPERED GLASS VIEW WINDOW; ELIASON PRE-DRILLED FLUSH FRAMES FOR TRAFFIC DOORS
106C	G	3' - 6"	8' - 0"	3/4"	ALUMINUM	16 GA. KD HOLLOW METAL; PAINTED		CURTRON PRODUCT SERVICE PRO SERIES 20 WITH 10"W X 30"T TEMPERED GLASS VIEW WINDOW; ELIASON PRE-DRILLED FLUSH FRAMES FOR TRAFFIC DOORS
107A		3' - 0"	8' - 0"					FRAMED OPENING; FRP FINISH
108A	H	3' - 0"	8' - 0"	1 3/4"	SOLID CORE PAINT GRADE FINISH	16 GA. KD HOLLOW METAL; PAINTED		INTERIOR DOOR, FLUSH PANEL; PAINT FINISH
109A		3' - 6"	8' - 0"					FRAMED OPENING; FRP FINISH
110A	H	3' - 0"	8' - 0"	1 3/4"	SOLID CORE PAINT GRADE FINISH	16 GA. KD HOLLOW METAL; PAINTED		INTERIOR DOOR, FLUSH PANEL; PAINT FINISH
201A	D	6' - 0"	8' - 0"	1 3/4"	STOREFRONT ENTRY DOOR; TEMPERED 1" COMPOSITE INSULATED FIXED GLASS - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE		NARROW STILE ALUMNINUM ANODIZED FINISH, STOREFRONT ENTRY DOORS
201B	D	6' - 0"	8' - 0"	1 3/4"	STOREFRONT ENTRY DOOR; TEMPERED 1" COMPOSITE INSULATED FIXED GLASS - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE		NARROW STILE ALUMNINUM ANODIZED FINISH, STOREFRONT ENTRY DOORS
201C	D	6' - 0"	8' - 0"	1 3/4"	STOREFRONT ENTRY DOOR; TEMPERED 1" COMPOSITE INSULATED FIXED GLASS - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE		NARROW STILE ALUMNINUM ANODIZED FINISH, STOREFRONT ENTRY DOORS
201D	D	6' - 0"	8' - 0"	1 3/4"	STOREFRONT ENTRY DOOR; TEMPERED 1" COMPOSITE INSULATED FIXED GLASS - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE		NARROW STILE ALUMNINUM ANODIZED FINISH, STOREFRONT ENTRY DOORS
201E	D	6' - 0"	8' - 0"	1 3/4"	STOREFRONT ENTRY DOOR; TEMPERED 1" COMPOSITE INSULATED FIXED GLASS - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE		NARROW STILE ALUMNINUM ANODIZED FINISH, STOREFRONT ENTRY DOORS
301A	D	6' - 0"	8' - 0"	1 3/4"	STOREFRONT ENTRY DOOR; TEMPERED 1" COMPOSITE INSULATED FIXED GLASS - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE		NARROW STILE ALUMNINUM ANODIZED FINISH, STOREFRONT ENTRY DOORS
301B	E	3' - 0"	8' - 0"	1 3/4"	INSULATED GALVANIZED HOLLOW METAL	16 GA. KD HOLLOW METAL; PAINTED		EXTERIOR DOOR; FLUSH PANEL; PAINT FINISH WITH PEEP HOLE VIEWER

NOTE: PRODUCT WIND LOAD CERTIFICATE - OVH DOOR MANUFACTURER SHALL PROVIDE A WINDOW LOAD CERTIFICATE SHOWING COMPLIANCE WITH THE WIND LOAD RATING FOR THE SIZE DOOR SCHEDULED FOR THE APPLICABLE REGION. THE CERTIFICATE SHALL BE SUBMITTED TO BUILDING CODE REVIEW AGENCY.

INTERIOR DOORS - DOORS - TRUDOOR STAIN GRADE SOLID CORE WOOD DOOR; UNFINISHED BIRCH VENEER OR APPROVED EQUIVALENT. SHALL RECEIVE JOB SITE TRANSPARENT STAIN FINISH. 16 GA. KNOCK DOWN STEEL FRAME.
EXTERIOR HOLLOW METAL DOORS - EXTRA HEAVY DUTY; 16 GA. GALVANIZED STEEL DOOR WITH POLYSTYRENE CORE. 14 GA GALVANIZED STEEL DOOR FRAME.

Window Schedule

Mark	Width	Height	Glazing	Frame Material	Description
A	23' - 0"	11' - 0"	TEMPERED 1" COMPOSITE INSULATED - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE	2"x4-1/2" THERMALLY BROKEN ALUMINUM STORE FRAMES; FIXED GLASS
B	14' - 8"	11' - 0"	TEMPERED 1" COMPOSITE INSULATED - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE	2"x4-1/2" THERMALLY BROKEN ALUMINUM STORE FRAMES; FIXED GLASS
C	2' - 8"	11' - 0"	TEMPERED 1" COMPOSITE INSULATED - BRONZE TINTED - LOW-E	ALUM. - DARK BRONZE	2"x4-1/2" THERMALLY BROKEN ALUMINUM STORE FRAMES; FIXED GLASS

EXTERIOR STORE FRONT - KAWNEER TRIFAB VERSAGLAZE 451; CENTER PLANE GLAZING; DARK BRONZE OR APPROVED EQUIVALENT.

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RESTAURANT AND LEASE SPACE FOR
MANISUP
4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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BRYAN P. BOUDREAUX REG. NO. 6208 STATE OF LOUISIANA REGISTERED ARCHITECT
5/20/2026

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DATE	5-20-26
PROJECT NO.	1161-25

A5.1
11 OF 18 SHEETS

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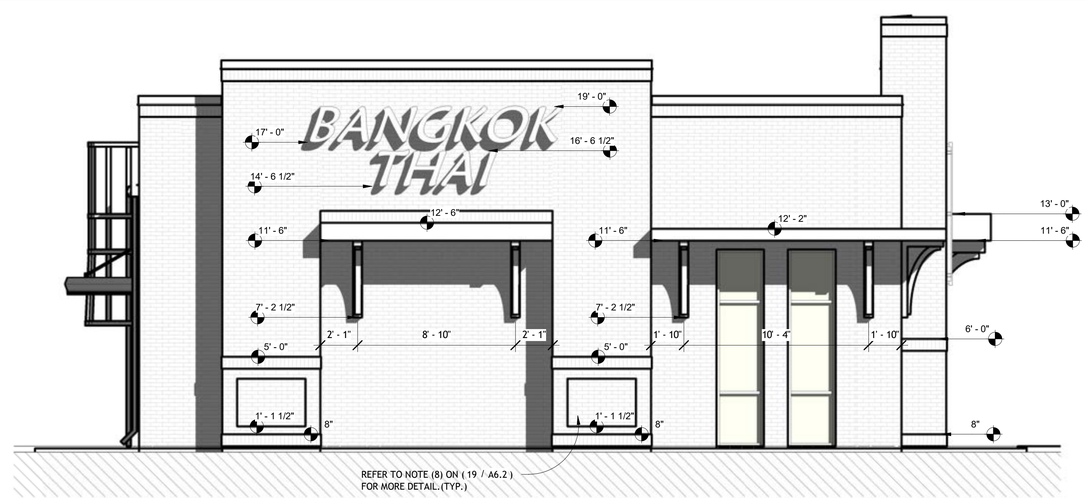
6 SOUTH ELEVATION
1/4" = 1'-0"

11 PERSPECTIVE



18 WEST ELEVATION
1/4" = 1'-0"

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STATE OF LOUISIANA
REGISTERED ARCHITECT
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12 OF 18 SHEETS

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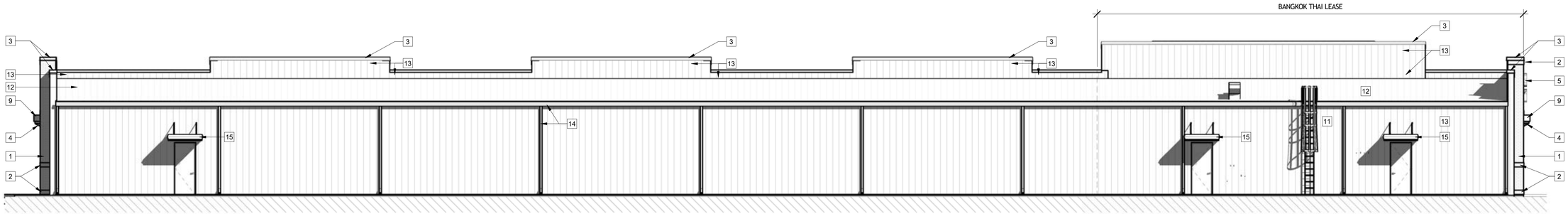
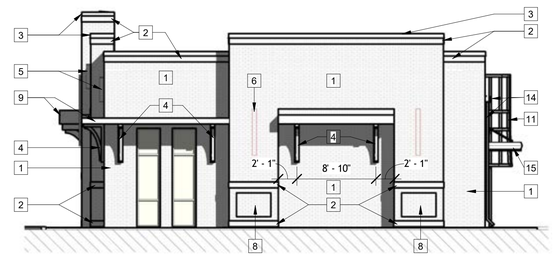
1 SOUTH EXTERIOR ELEVATION
1/8" = 1'-0"



6 NORTH EXTERIOR ELEVATION
1/8" = 1'-0"

11 SOUTH EXTERIOR ELEVATION PART A
1/8" = 1'-0"



14 EAST EXTERIOR ELEVATION
1/8" = 1'-0"

KEYED (ELEVATION) NOTES:

1. BRICK VENEER, PAINTED
2. 8" BRICK SOLDIER COURSE, PAINTED
3. PRE-FINISHED METAL CAP
4. WD. BRACKET, PAINTED
5. BUILDING MOUNTED SIGN BY OWNER, PROVIDE JUNCTION BOX AND POWER FOR OWNER'S SIGN, V.O.J.
6. LARGE DECORATIVE EXTERIOR BUILDING LIGHT - TYP. (RE: TO ELECTRICAL DESIGN DRAWINGS.)
7. (5'-8" x 3'-4") 1/2" BRICK RECESS PAINTED, BASE AT (1'-4" A.F.F.)
8. (3'-10" x 2'-8") 1/2" BRICK RECESS PAINTED, BASE AT (1'-4" A.F.F.)
9. PREFINISHED METAL AWNING
10. SMALL DECORATIVE EXTERIOR BUILDING LIGHT-TYP.(RE: ELECTRIC DESIGN DRAWINGS.)
11. CAGED SAFETY ACCESS LADDER
12. 26 GA. PEMB METAL ROOF
13. PEMB METAL WALL PANELS
14. GUTTER AND DOWNSPOUTS
15. METAL BUILDING MARQUEE AWNINGS

16 SOUTH EXTERIOR ELEVATION PART B
1/8" = 1'-0"

19 WEST EXTERIOR ELEVATION
1/8" = 1'-0"

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13 OF 18 SHEETS

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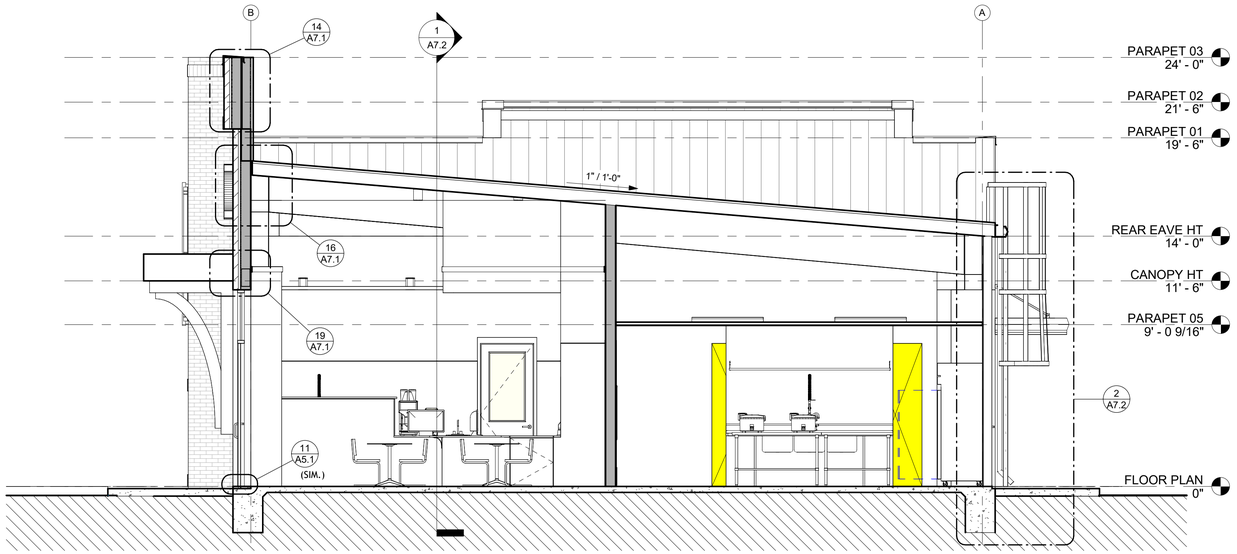
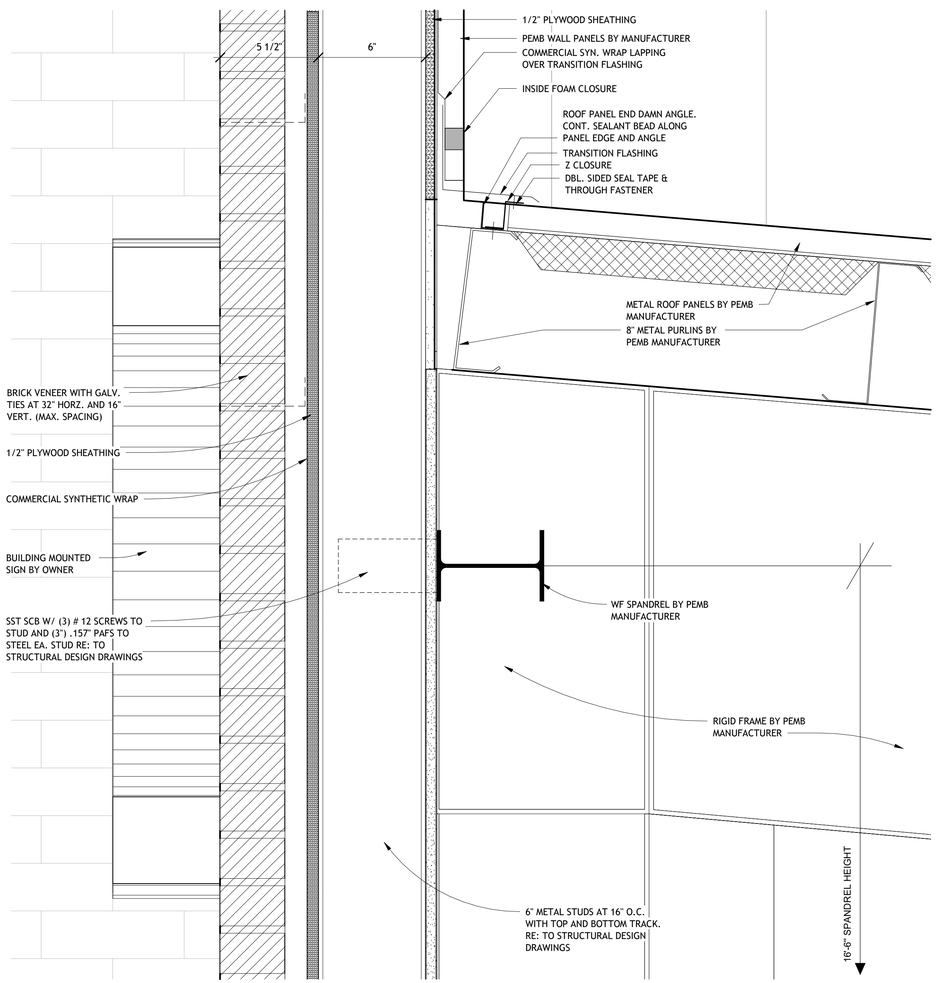
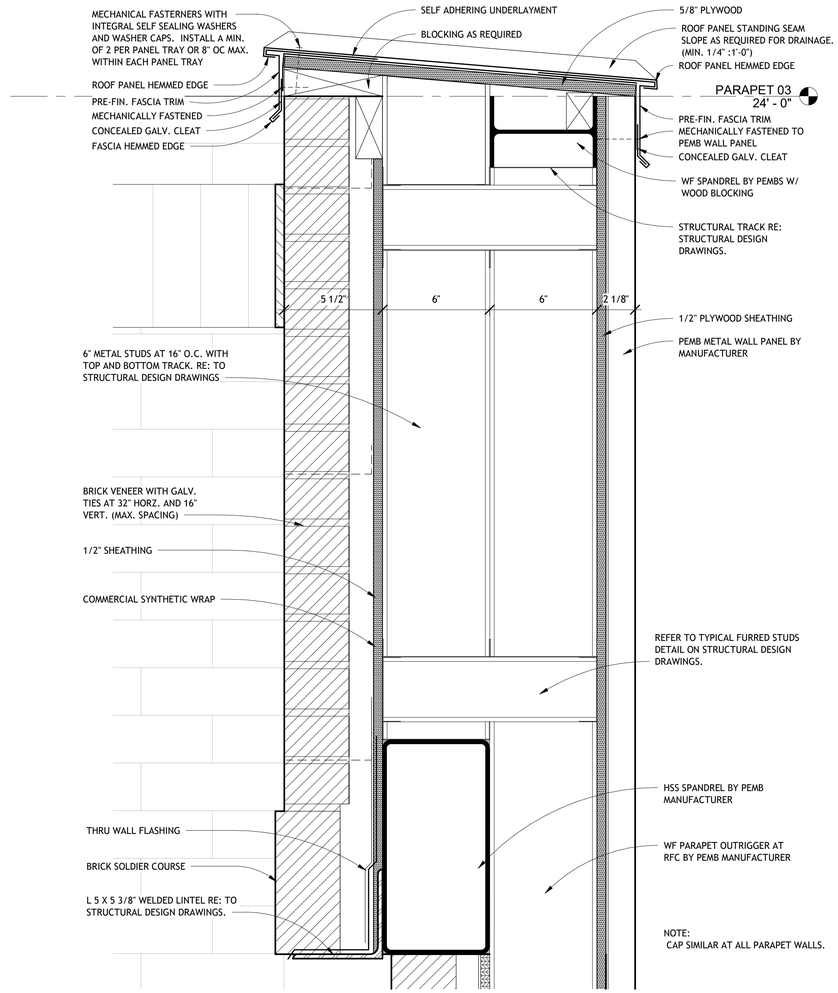


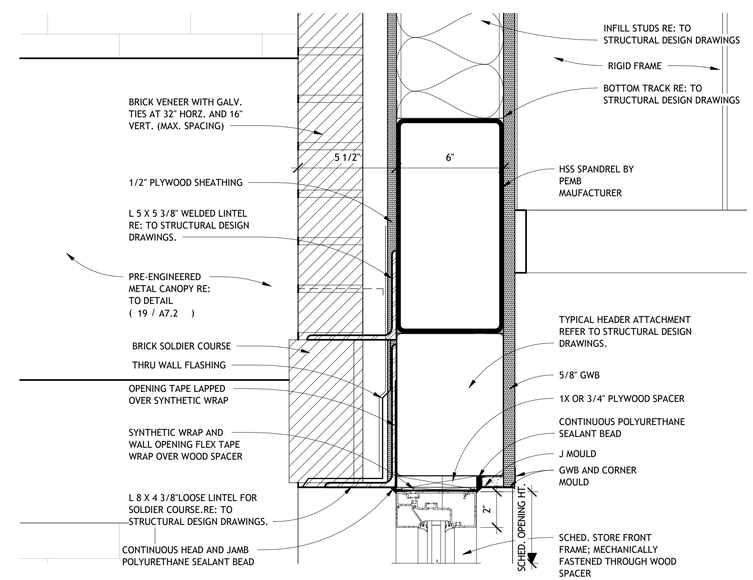
1 BUILDING SECTION 1
1/4" = 1'-0"



16 PARAPET TO ROOF TRANSITION DETAIL
3" = 1'-0"



14 WALL DETAIL AT PARAPET
3" = 1'-0"



19 STOREFRONT JAMB DETAIL
3" = 1'-0"

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BRYAN P. BOUDREAUX
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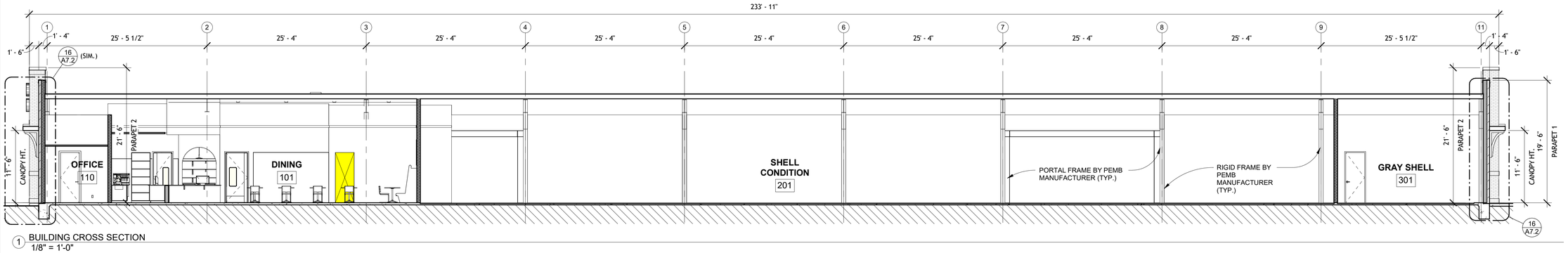
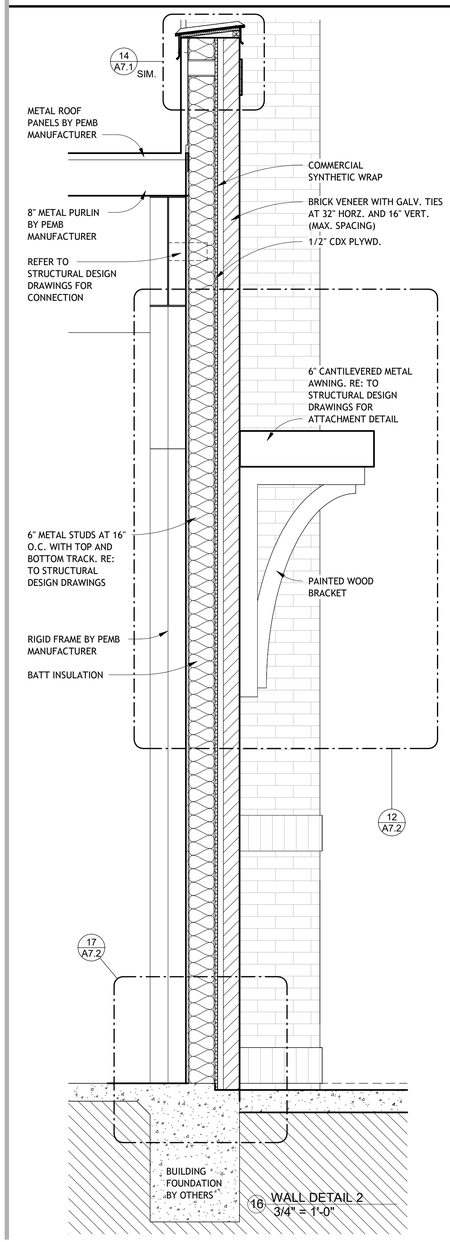
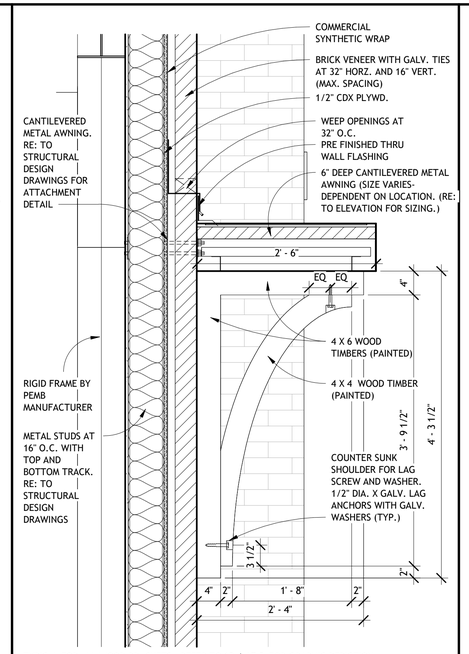


1 BUILDING CROSS SECTION
1/8" = 1'-0"

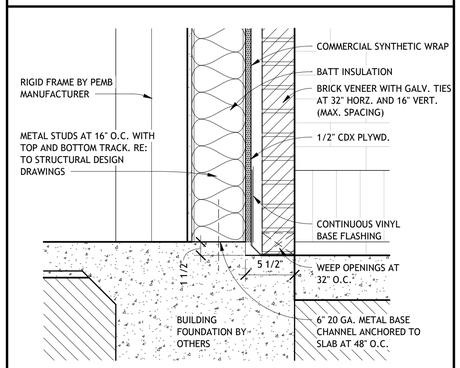


16 WALL DETAIL 2
3/4" = 1'-0"

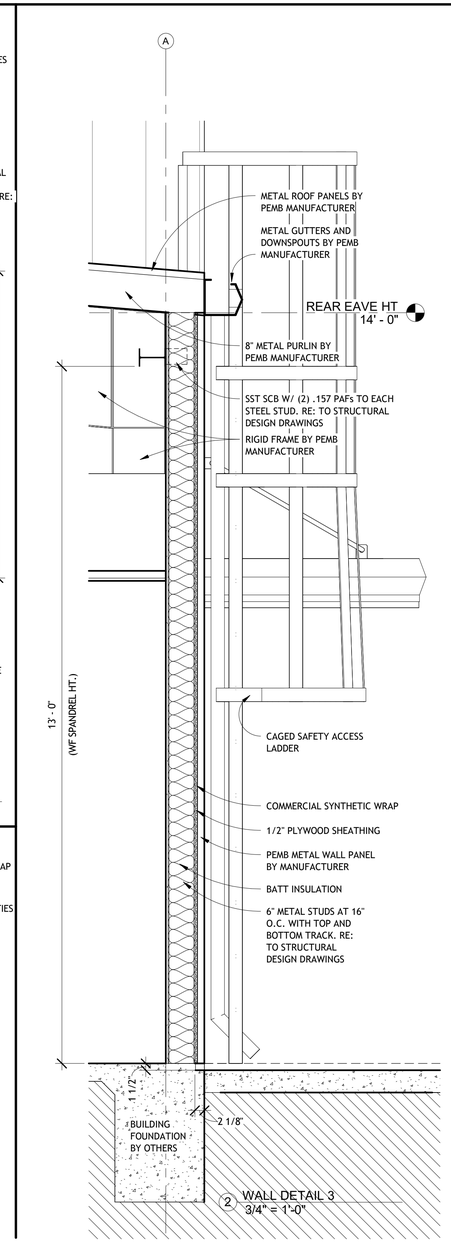


TYPICAL FOR ALL WOOD BRACKETS. REFER TO 19 / A7.2 FOR GRAPHIC DEPICTION
BRACKET THOUGH BOLT POST IN WALL FRAMING - DOUBLE 2X6 WOOD POST FLUSH WITH BACK SIDE OF PLYWOOD SHEATHING, FROM WALL FRAMING BOTTOM TRACK TO TOP TRACK BELOW SPANDREL BEAM.
AIR CAVITY BACKING FOR THROUGH BOLTS AT WALL BRACKETS- VERTICAL 9' LONG X 6" WIDE DOUBLE LAYER OF 5/8" PLYWOOD WRAPPED WITH COMMERCIAL SYNTHETIC WEATHER BARRIER IN AIR CAVITY.
MECHANICALLY FASTEN DOUBLE 2X8 POST TO 2X2 NAILER BETWEEN WALL FRAMING MEMBERS IN BASE TRACK ANCHORED TO SLAB.
MECHANICALLY FASTEN DOUBLE 2X6 POST TO 2X2 NAILER BETWEEN WALL FRAMING MEMBERS IN TOP TRACK ANCHORED OR STRUCTURAL MEMBER ABOVE.

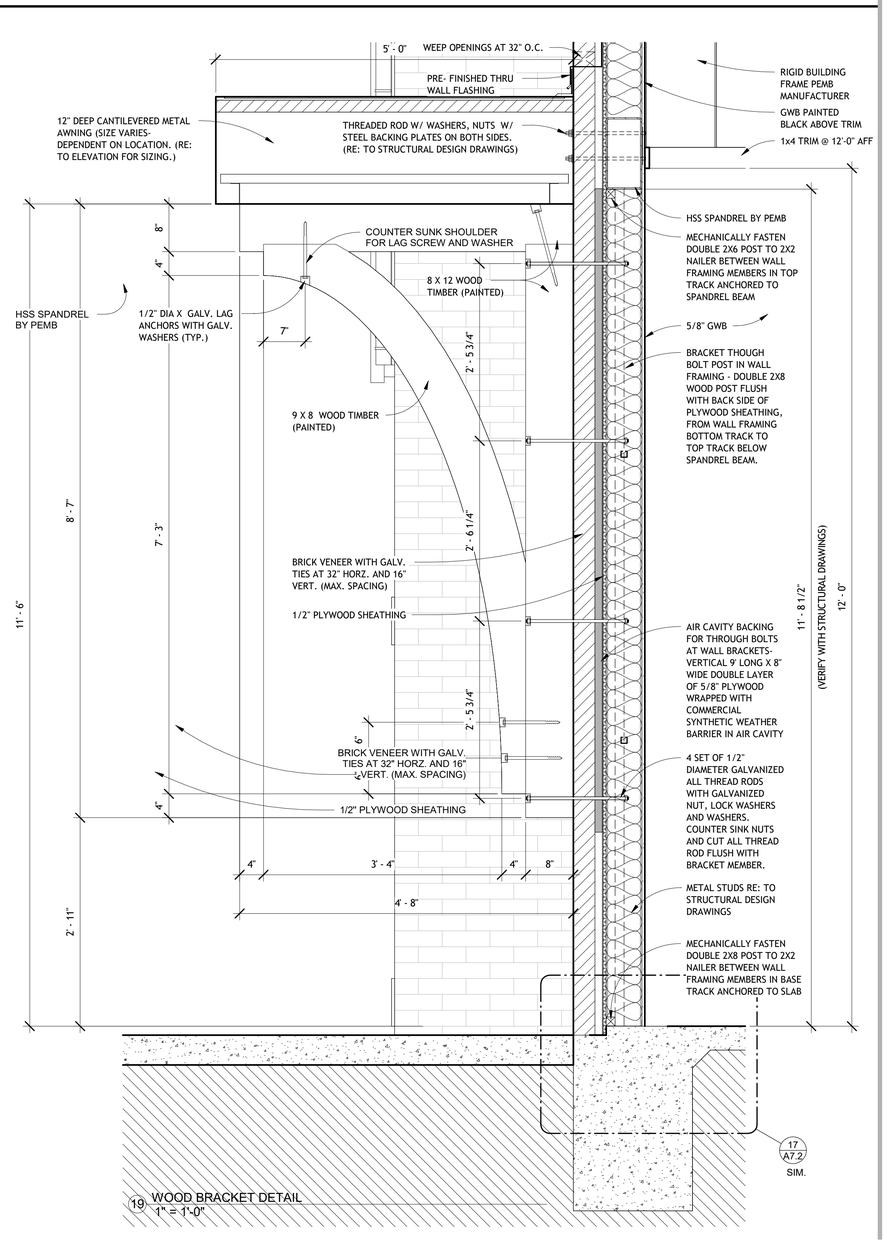
12 WOOD BRACKET DETAIL 2
1" = 1'-0"



17 BASE PLATE
1 1/2" = 1'-0"



2 WALL DETAIL 3
3/4" = 1'-0"



19 WOOD BRACKET DETAIL
1" = 1'-0"

REVISIONS	BY

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MANISUP
4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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BRYAN P. BOUDREAUX REG. NO. 6508 STATE OF LOUISIANA REGISTERED ARCHITECT
5/20/2026

DRAWN	
CHECKED	
DATE	5-20-26
PROJECT NO.	1161-25

A7.2

15 OF 18 SHEETS

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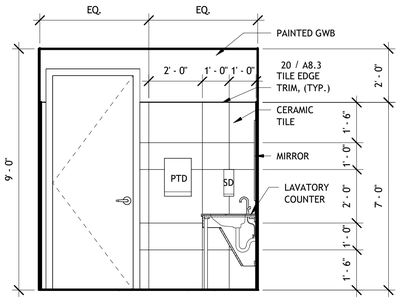
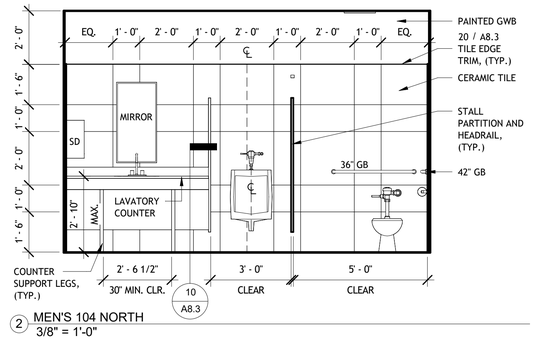
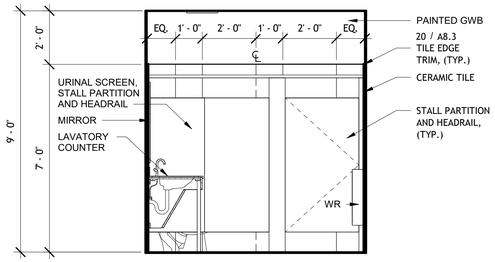
Autodesk Docs://Manisup - Bangkok Thai and Lease Space Bldg/Bangkok Thai 11.rvt



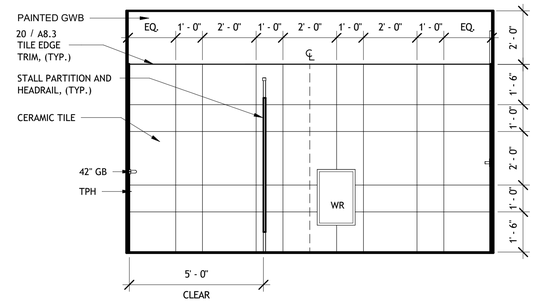
1 MEN'S 104 WEST
3/8" = 1'-0"



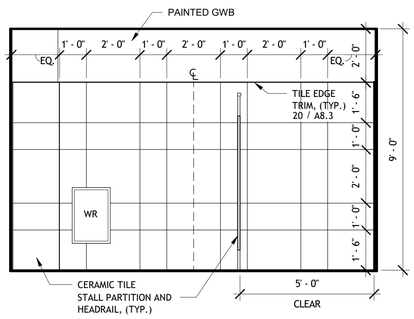
2 MEN'S 104 NORTH
3/8" = 1'-0"



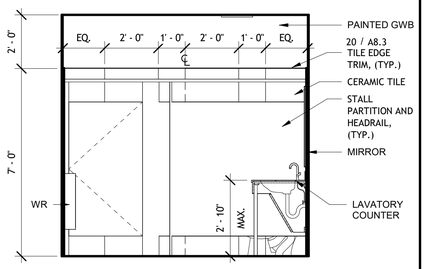
3 MEN'S 104 EAST
3/8" = 1'-0"



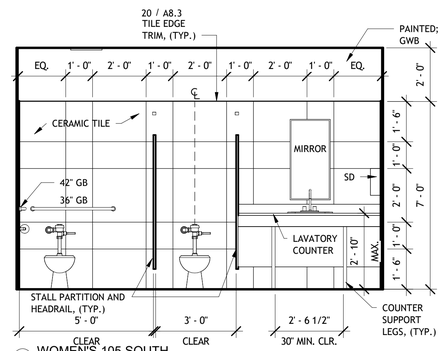
4 MEN'S 104 SOUTH
3/8" = 1'-0"



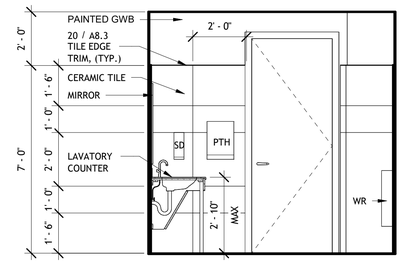
6 WOMEN'S 105 NORTH
3/8" = 1'-0"



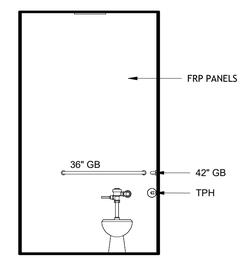
7 WOMEN'S 105 EAST
3/8" = 1'-0"



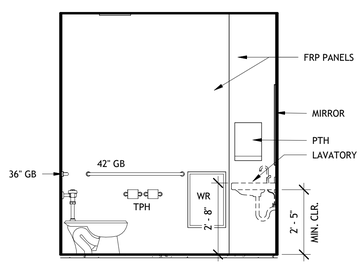
8 WOMEN'S 105 SOUTH
3/8" = 1'-0"



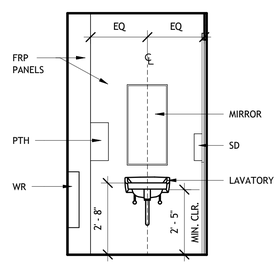
9 WOMEN'S 105 WEST
3/8" = 1'-0"



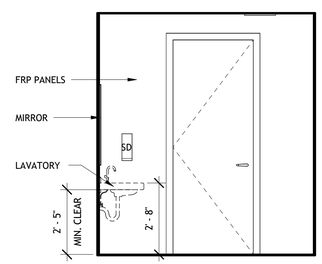
10 RR 108 SOUTH
3/8" = 1'-0"



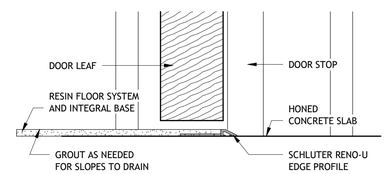
11 RR 108 WEST
3/8" = 1'-0"



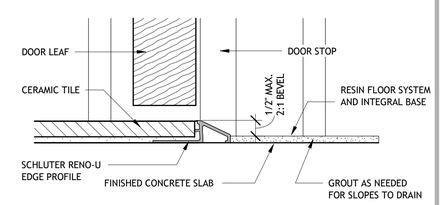
12 RR 108 NORTH
3/8" = 1'-0"



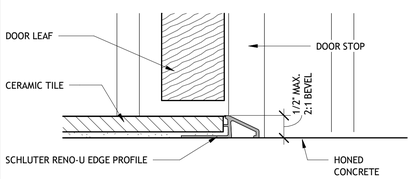
13 RR 108 EAST
3/8" = 1'-0"



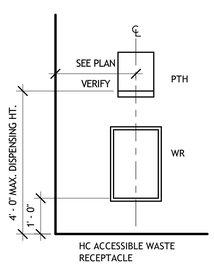
14 RESIN FLOOR TO HONED CONCRETE TRANSITION
6" = 1'-0"



15 CERAMIC TILE TO RESINOUS FLOOR SYSTEM
6" = 1'-0"

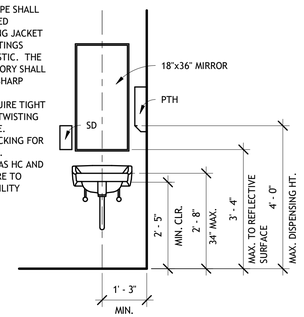


16 CERAMIC TILE TO FINISHED HONED CONCRETE TRANSITION
6" = 1'-0"



17 TYPICAL WASTE RECEPTACLE
1/2" = 1'-0"

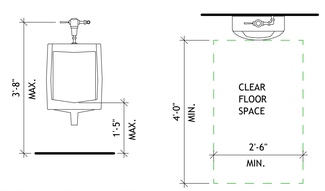
RESTROOM NOTES:
-HOT WATER AND DRAIN PIPE SHALL BE INSULATED WITH MOLDED FIBERGLASS FIRE RETARDING JACKET AND SEAL TAB SEAMS. FITTINGS SHALL BE PREMOLDED PLASTIC. THE UNDER SIDE OF THE LAVATORY SHALL BE SMOOTH AND FREE OF SHARP EDGES.
-FAUCETS SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
-PROVIDE 2X12 WOOD BLOCKING FOR ALL WALL MOUNTED ITEMS.
-ALL FIXTURES INDICATED AS HC AND ACCESSORIES SHALL ADHERE TO CURRENT A.D.A. ACCESSIBILITY GUIDELINES.



18 TYPICAL LAVATORY DETAIL
1/2" = 1'-0"

URINALS:
HEIGHT: URINALS SHALL BE STALL-TYPE OR WALL -HUNG WITH AN ELONGATED RIM AT A MAXIMUM OF 17" ABOVE THE FINISH FLOOR.
CLEAR FLOOR SPACE: A CLEAR FLOOR SPACE OF 30" BY 48" SHALL BE PROVIDED IN FRONT OF THE URINALS TO ALLOW FORWARD APPROACH. THIS CLEAR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE. URINAL SHIELDS THAT DO NOT EXTEND BEYOND THE FRONT EDGE OF THE URINAL RIM MAY BE PROVIDED WITH 29" CLEARANCE BETWEEN THEM.

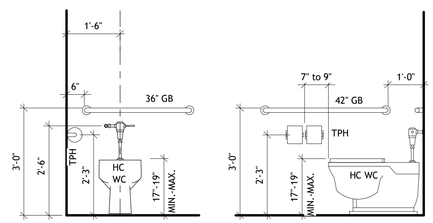
FLUSH CONTROL: FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.



19 TYPICAL URINAL DETAIL
1/2" = 1'-0"

FLUSH CONTROL: FLUSH CONTROLS SHALL BE HAND OPERATED OR AUTOMATIC AND SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. CONTROLS FOR FLUSH VALVES SHALL BE MOUNTED WIDE CLEAR FLOOR AREA OF THE WATER CLOSET AND NO MORE THAN 44" ABOVE THE FLOOR.

GRAB BARS: INSTALL 2X12 WOOD BLOCKING BETWEEN WALL FRAMING FOR ANCHORING GRAB BARS.



20 TYPICAL FLUSH VALVE TYPE WATER CLOSET DETAIL
1/2" = 1'-0"

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BRYAN P. BOUDREAUX
REG. NO. 6608
STATE OF LOUISIANA
REGISTERED ARCHITECT
5/20/2026

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DATE	5-20-26
PROJECT NO.	1161-25

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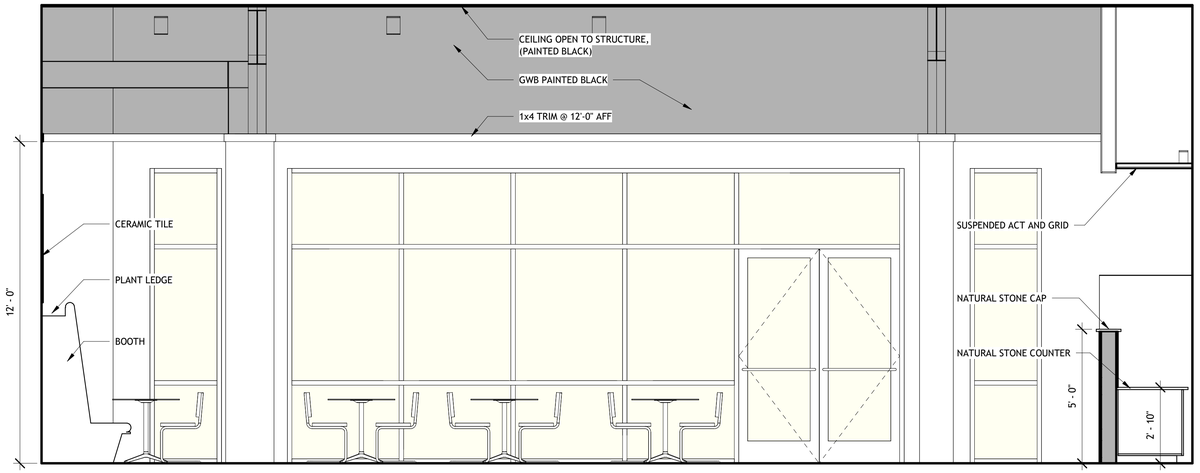
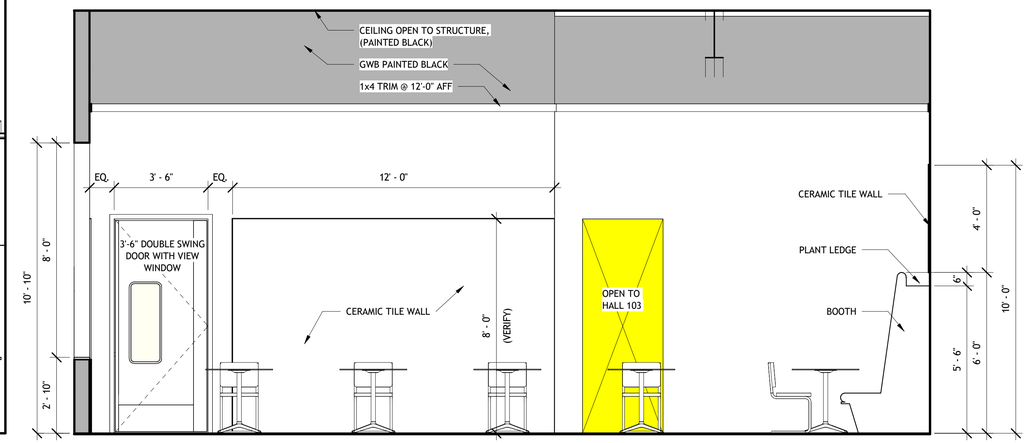
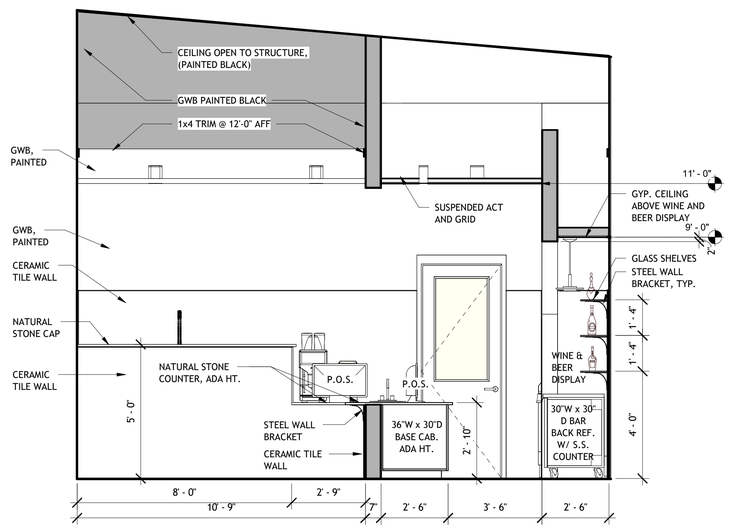


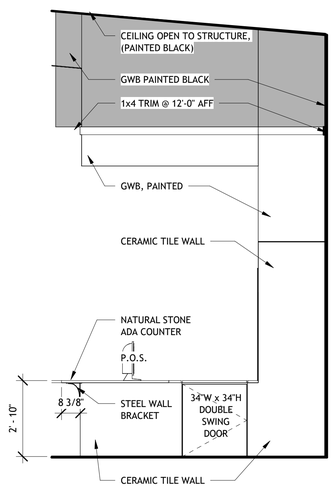
1 DINING 101 SOUTH
3/8" = 1'-0"



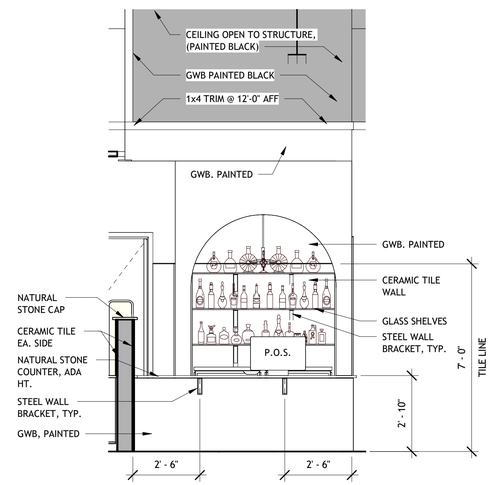
3 DINING 101 NORTH
3/8" = 1'-0"



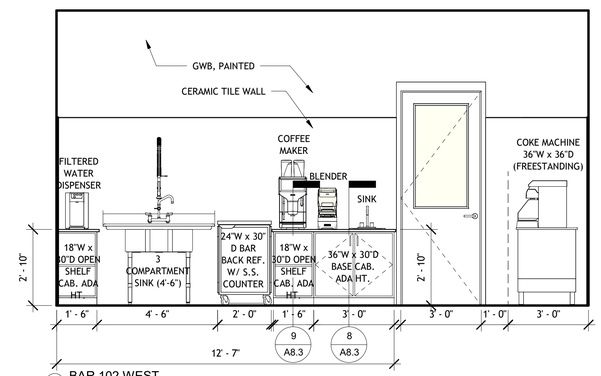
11 BAR 102 CUSTOMER SIDE
3/8" = 1'-0"



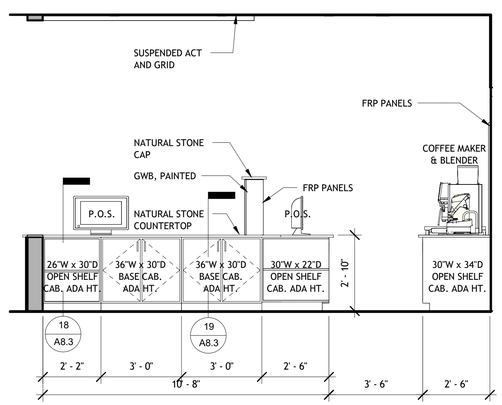
12 DINING 101 WEST
3/8" = 1'-0"



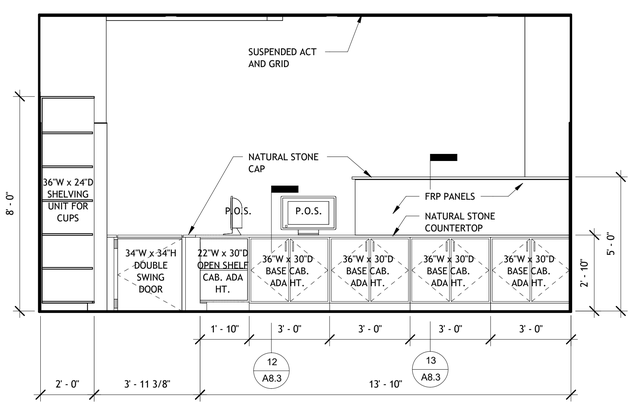
13 BAR 102 CUSTOMER SIDE NORTH
3/8" = 1'-0"



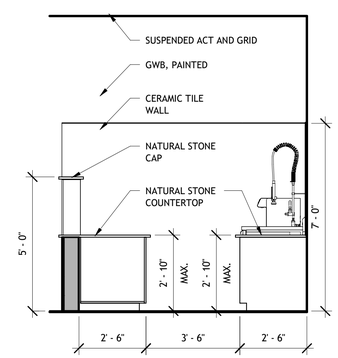
14 BAR 102 WEST
3/8" = 1'-0"



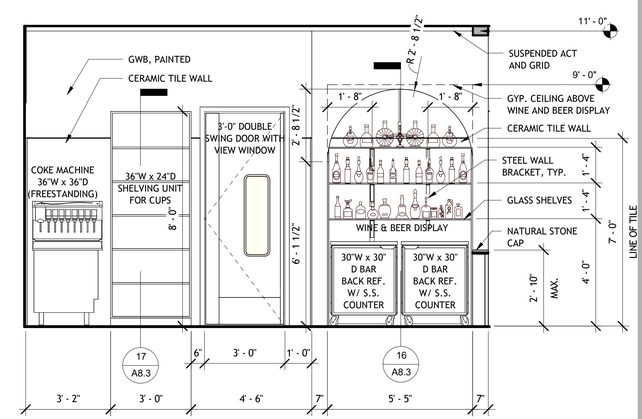
16 BAR 102 P.O.S. SOUTH
3/8" = 1'-0"



17 BAR 102 EAST
3/8" = 1'-0"



18 BAR 102 SOUTH
3/8" = 1'-0"



19 BAR 102 NORTH
3/8" = 1'-0"

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BRYAN P. BOUDREAUX
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17 OF 18 SHEETS

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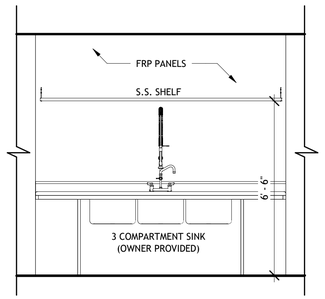
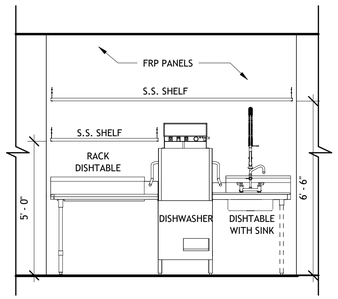
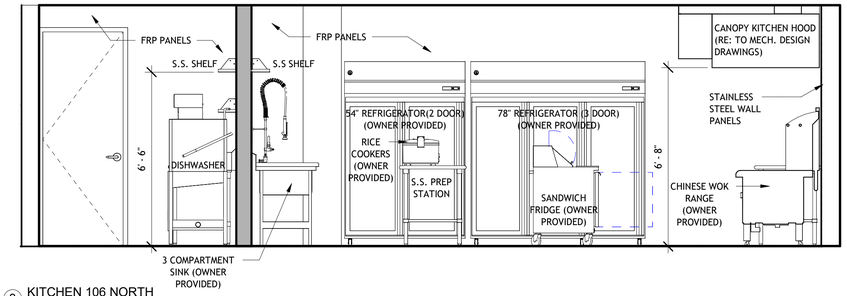


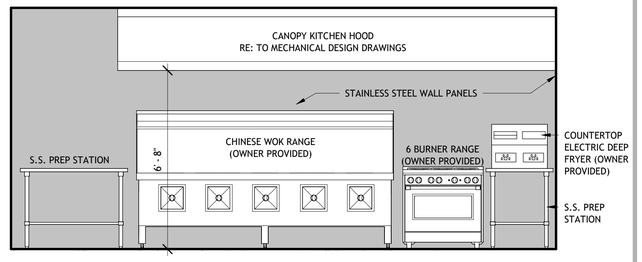
1 KITCHEN 106 SINK
3/8" = 1'-0"



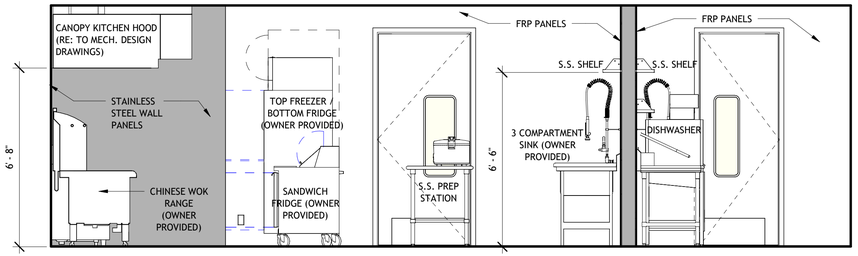
2 KITCHEN 106 DISHWASHER
3/8" = 1'-0"



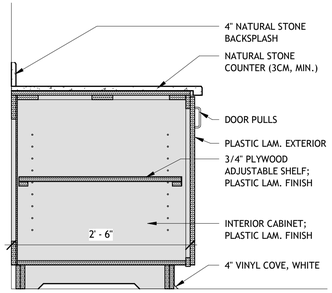
3 KITCHEN 106 NORTH
3/8" = 1'-0"



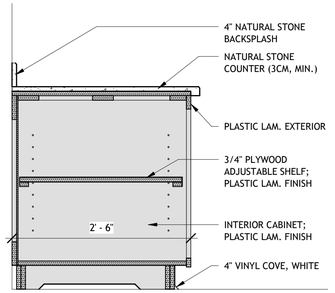
4 KITCHEN 106 COOKING LINE
3/8" = 1'-0"



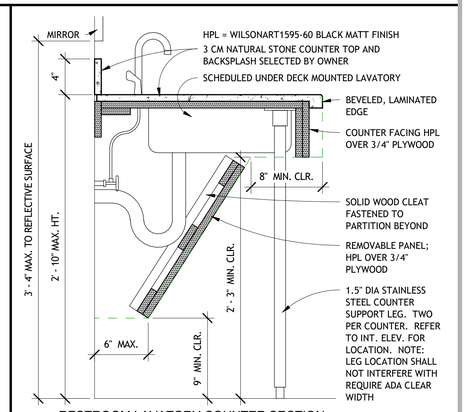
6 KITCHEN 106 SOUTH
3/8" = 1'-0"



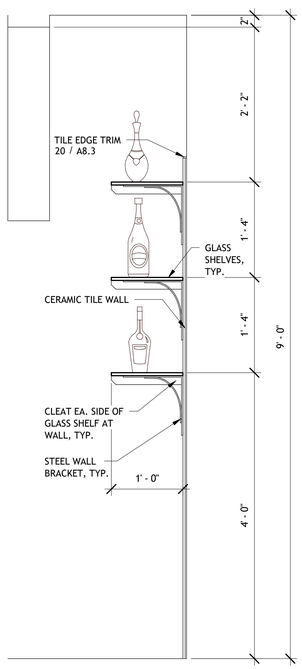
8 BAR CABINET (TYP.) SECTION
1" = 1'-0"



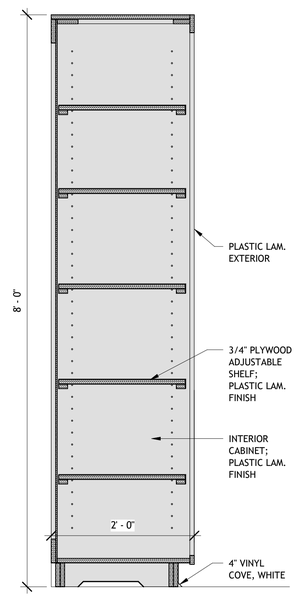
9 BAR OPEN SHELF CABINET SECTION
1" = 1'-0"



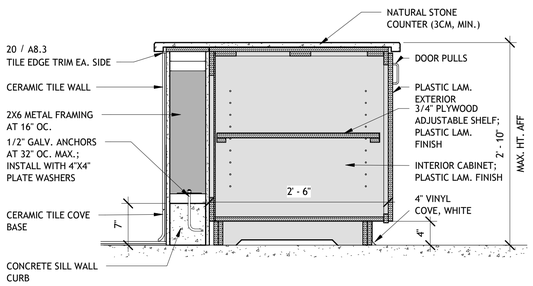
10 RESTROOM LAVATORY COUNTER SECTION
1 1/2" = 1'-0"



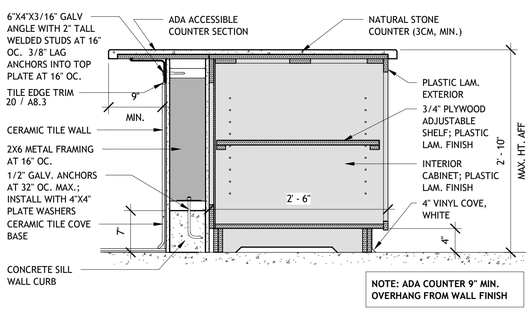
16 BAR OPEN SHELF TALL CABINET SECTION
1" = 1'-0"



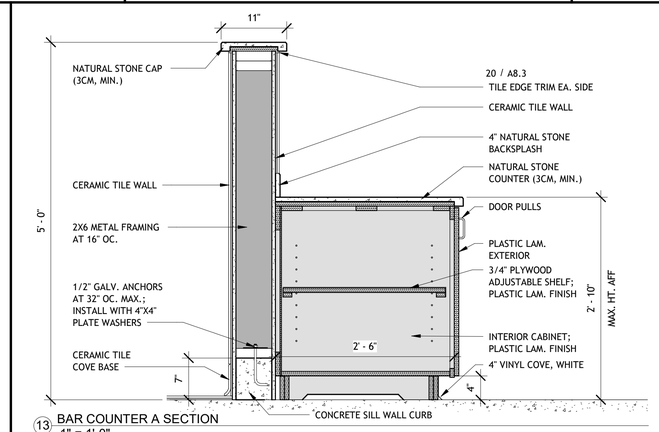
17 BAR OPEN SHELF TALL CABINET SECTION
1" = 1'-0"



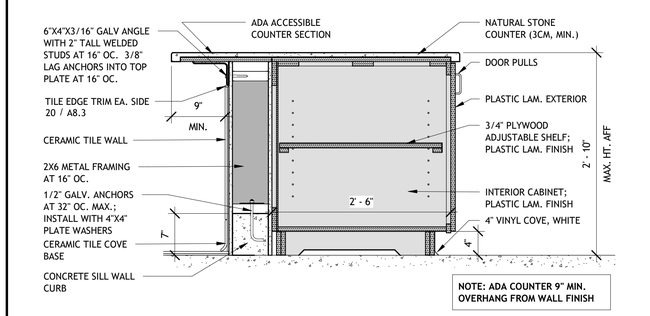
12 BAR COUNTER B SECTION
1" = 1'-0"



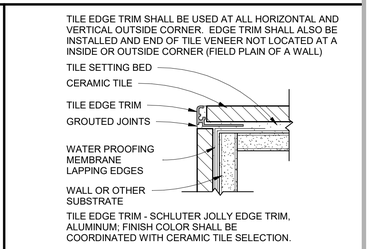
18 BAR ADA COUNTER OPEN SHELF CABINET
1" = 1'-0"



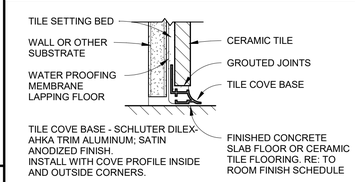
13 BAR COUNTER A SECTION
1" = 1'-0"



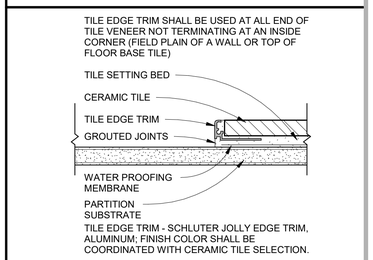
19 BAR ADA COUNTER SECTION
1" = 1'-0"



14 CERAMIC TILE EDGE TRIM DETAIL
6" = 1'-0"



15 CERAMIC TILE COVE BASE TRIM DETAIL
6" = 1'-0"



20 CERAMIC TILE EDGE TRIM DTL. TERMINATION EDGE
6" = 1'-0"

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MANISUP

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BRYAN P. BOUDREAUX
REG. NO. 6608
STATE OF LOUISIANA
REGISTERED ARCHITECT
5/20/2026

DRAWN	
CHECKED	
DATE	5-20-26
PROJECT NO.	1161-25

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18 OF 18 SHEETS

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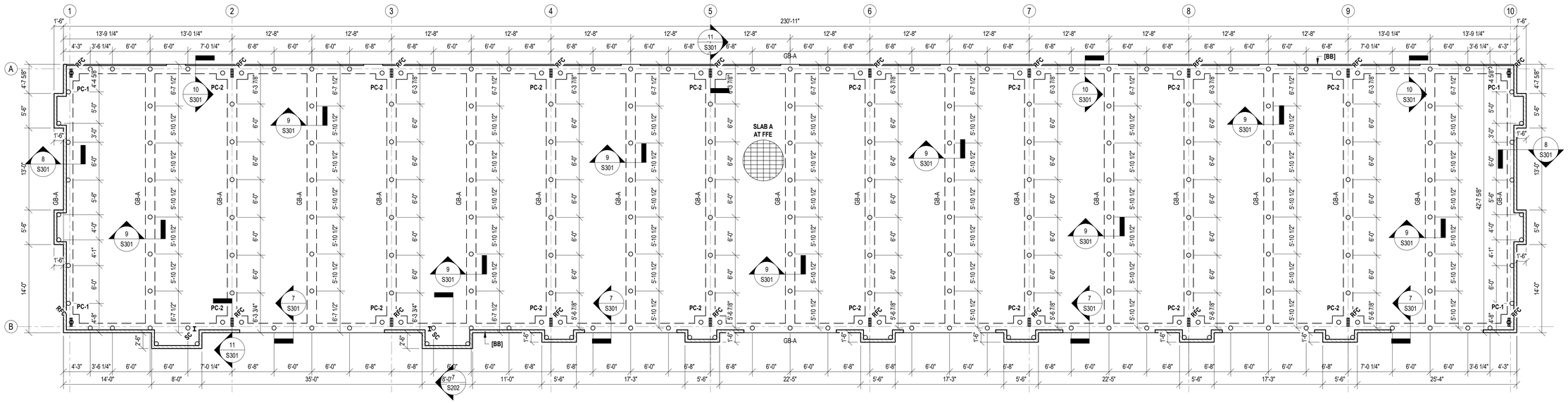

1 OVERALL FOUNDATION PLAN
1/8" = 1'-0"

FOUNDATION NOTES:

REFER TO ARCHITECTURAL PLANS FOR ALL FORM SETTING DIMENSIONS. VERIFY ALL DIMENSIONS GIVEN ON THE ARCHITECTURAL PLANS WITH THE FINAL APPROVED PEMB SUBMITTAL.

VERIFY ALL DROPS, SLOPES, OFFSETS, AND LEDGES WITH THE ARCHITECTURAL PLANS.

ALL STRUCTURAL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 8" LIFTS.

REFER TO S201 FOR FOUNDATION SCHEDULES AND TYPICAL DETAILS

REFER TO S202 FOR FOUNDATION DETAILS

SLAB A: 6" THICK SLAB OVER 15 MIL VAPOR BARRIER ON A 4" WASHED GRAVEL BASE. ALL VAPOR BARRIER JOINTS SHALL BE TAPED AND SEALED. REINFORCE SLAB WITH 4X4XW4.0XW4.0 SUPPORTED BY #5 BARS @ 12" O.C. E.W.

NOTE [AA]:
1-1/2"x1-1/2" METAL PANEL LEDGE - RE: ARCH / PEMB

NOTE [BB]:
1-1/2"x5-1/2" BRICK LEDGE - RE: ARCH / PEMB

PILE NOTES:

○ INDICATES CLASS #5 PILE WITH A MINIMUM 30.0' TIP EMBEDMENT INTO NATURAL SOIL. DESIGN LOAD = 8 TONS/PILE.

PERFORM PILE STATIC LOAD TESTING IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

NO FIELD SUPERVISION OR INSPECTION RELATED TO PILE DRIVING PROCEDURES UNDER THIS PLAN UNLESS NOTED OTHERWISE.

PILE LAYOUT MAY BE MODIFIED DUE TO ACTUAL DRIVING OR FIELD CONDITIONS.

TREATED PILES MUST MEET AWPA STANDARDS C3-92 FOR PRESERVATIVE RETENTION.

PILES TO BE DRIVEN IN STRICT ACCORDANCE WITH THE GEOTECHNICAL REPORT.

ALL PILE LOCATIONS SHALL BE STAKED BY A LICENSED SURVEYOR PRIOR TO DRIVING. PILE CAPS SUPPORTING PEMB COLUMNS SHALL BE LOCATED CENTERED ON PEMB COLUMNS BASED OFF OF THE FINAL APPROVED PEMB DRAWINGS AND ANCHOR BOLT LAYOUT.

228 CLASS #5 PILES REQUIRED.

PEMB NOTE:

FOUNDATION DESIGN IS BASED OFF OF REACTIONS CALCULATED BY SOUTHEAST ENGINEERS. THE GENERAL CONTRACTOR SHALL SUBMIT THE COMPLETE METAL BUILDING SHOP DRAWINGS ACCOMPANIED BY SEALED CALCULATIONS PRIOR TO CONSTRUCTION.

THE GENERAL CONTRACTOR SHALL COORDINATE THE GEOMETRIC LAYOUT OF THE METAL BUILDING AND ANCHOR BOLT LAYOUT WITH THE FOUNDATION PLAN PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE IDENTIFIED AND CLEARLY INDICATED IN THE PEMB SHOP DRAWING SUBMITTAL BY THE GENERAL CONTRACTOR.

THE GC SHALL TAKES SPECIAL CARE TO PROPERLY LOCATE ALL PEMB ANCHOR RODS IN ACCORDANCE WITH THE APPROVED FINAL PEMB DRAWINGS. NO POST-INSTALLED MODIFICATIONS WILL BE ACCEPTED FOR MIS-PLACED ANCHOR RODS AT PEMB RIGID FRAME COLUMNS.

REFER TO S301 FOR PEMB COLUMN SCHEDULE.

SOUTHEAST ENGINEERS & LAND SURVEYORS
108 PARK WEST DRIVE
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RYAN C. DUNLEVY
License No. 42707
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/20/2026

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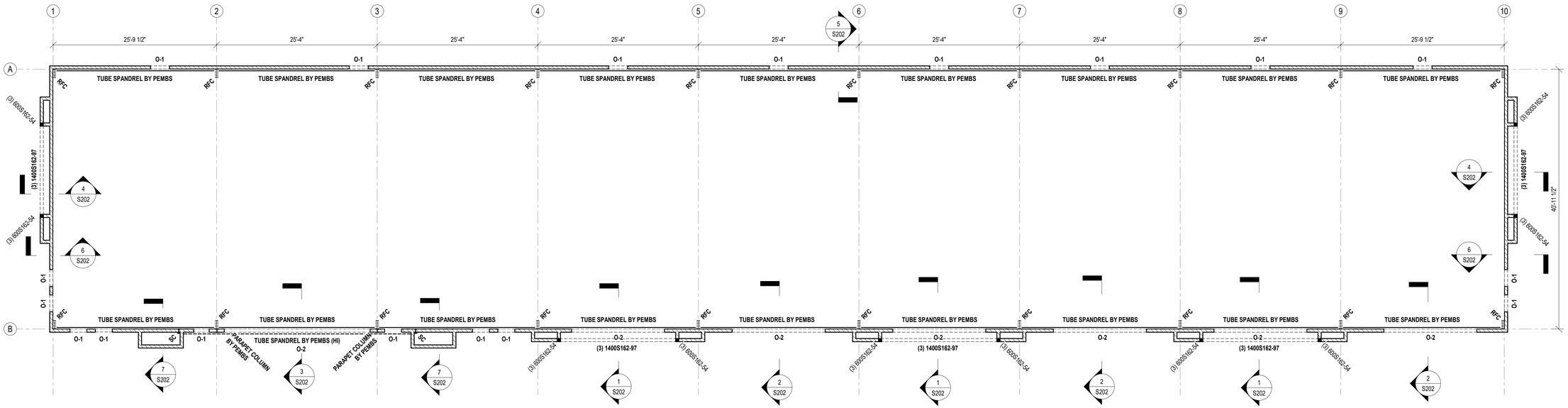

1 LOW EAVE
1/8" = 1'-0"

COLD FORMED METAL STUD WALL OPENING SCHEDULE									
MARK	JAMB	BOTTOM CONNECTION	MID CONNECTION	TOP CONNECTION	LOAD BEARING HEADER GRAVITY	HEADER TOP LATERAL	HEADER BOTTOM LATERAL	SILL	REMARKS
O-1	(2)600S162-43	600T125-43 W/ (2) .157" PAFs TO CONC	N/A	SSC SCB(3) W/ (4) PAFs TO STEEL	(2)600S162-54	600T125-43	600T125-43	600T125-43	TYPICAL DOOR / WINDOW UP TO 3'-6" WIDE
O-2	(2)600S162-54	RCA-C225/97 W/ (8) #12 SCREWS AND 1/2" X 3 1/4" TITEN HD TO CONC	N/A	(2) SST SCW5.5 W/ (2) #12 SCREWS TO STUD AND (2) .157" PAFs TO STEEL	SPANDREL BY PEMBS	SPANDREL BY PEMBS	SPANDREL BY PEMBS	N/A	TYPICAL STOREFRONT OPENING

NOTES

FURNISH CONNECTIONS AS PER SCHEDULE UNLESS NOTED OTHERWISE ON SECTIONS.

ALL CRIPPLE STUDS TO MATCH WALL STUD DESIGNATION INDICATED SPACED AT 16" O.C.

CONTINUE WALL BRIDGING TO JAMBS & STEEL COLUMNS.

REFER TO SECTIONS WHERE FRAMING IS NOT INDICATED ON PLANS.

FURNISH CONNECTIONS AS PER SCHEDULE UNLESS NOTED OTHERWISE ON SECTIONS.

BASIS OF DESIGN IS SIMPSON COLD FORMED CLIPS AND ACCESSORIES. CONTRACTOR IS PERMITTED TO SUBSTITUTE CLIPS WITH EQUIVALENT LOAD RATING FOR THE SPECIFIED FASTENING.

REFER TO SECTIONS FOR BYPASS CLIP LENGTH SPECIFICATION AND VERIFY IN FIELD PRIOR.

BRIDGING SHALL BE INSTALLED AT A MAXIMUM SPACING OF 48" O.C.

INDICATES 6" STUD WALL

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CIVIL ENGINEERING
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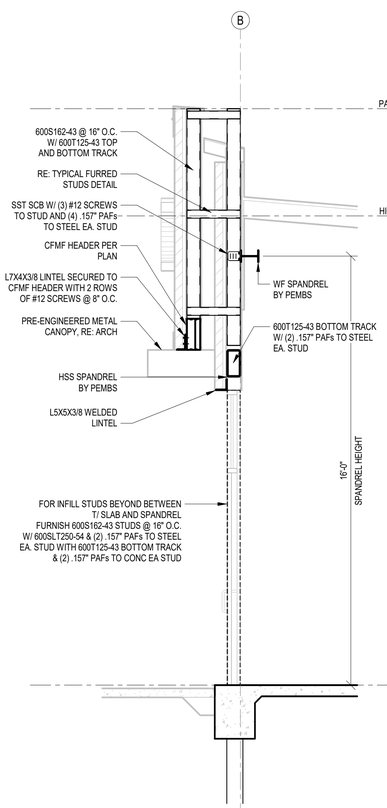
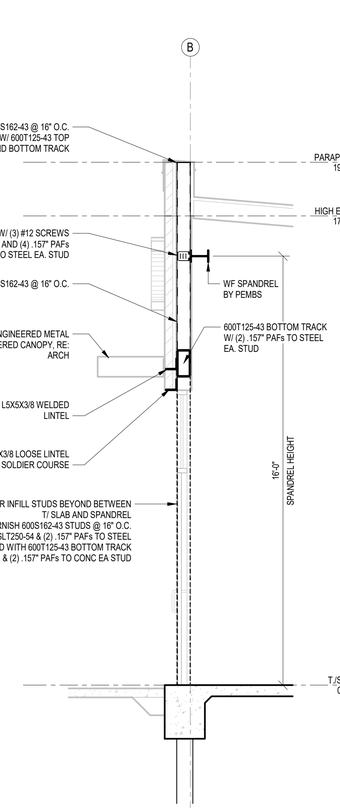
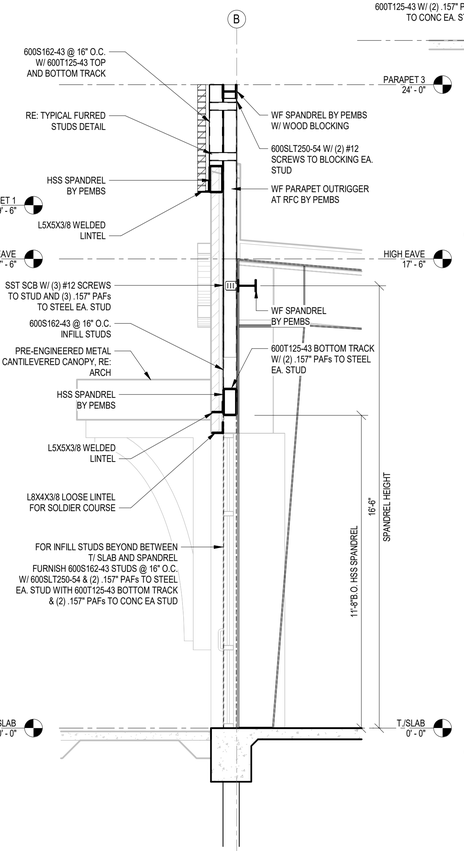


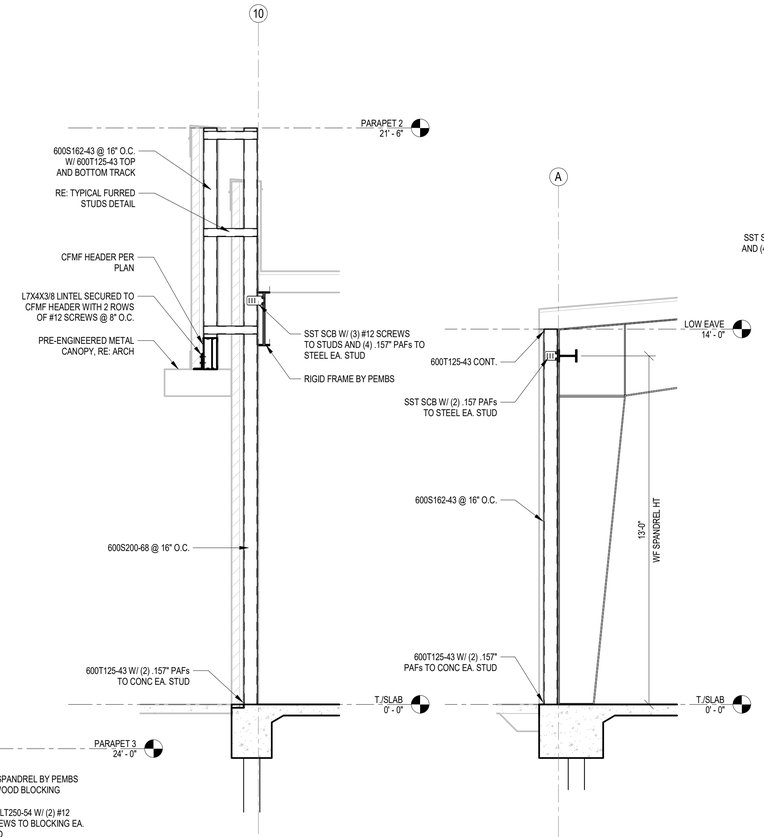
1 WALL SECTION
3/8" = 1'-0"



2 WALL SECTION
3/8" = 1'-0"



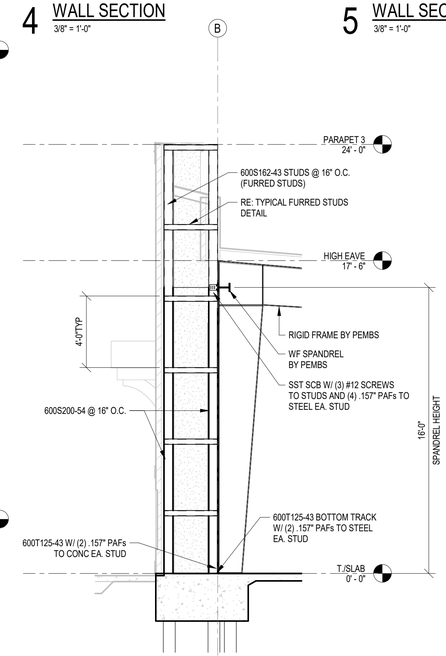
3 WALL SECTION
3/8" = 1'-0"



4 WALL SECTION
3/8" = 1'-0"

5 WALL SECTION
3/8" = 1'-0"

6 WALL SECTION
3/8" = 1'-0"



7 Section 10
1/4" = 1'-0"

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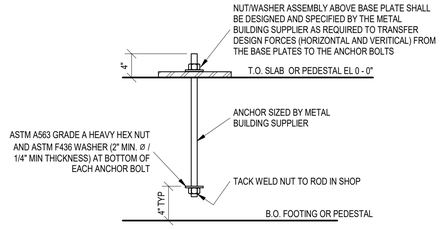
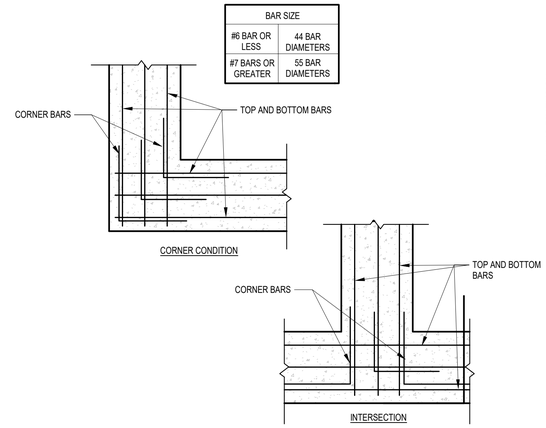
PRE-ENGINEERED METAL BUILDING COLUMN SCHEDULE								
MARK	COLUMN DESCRIPTION	SHAPE	PROFILE	MAX FLANGE WIDTH	MAX WEB DEPTH	BASE CONNECTION	TOP CONNECTION	REMARKS
RFC	RIGID FRAME COLUMN	I	TAPERED	RE: ARCH	RE: ARCH	PINNED	FIXED	-
SC	SOLDIER COLUMN	I	STRAIGHT	RE: ARCH	RE: ARCH	PINNED	PINNED	-

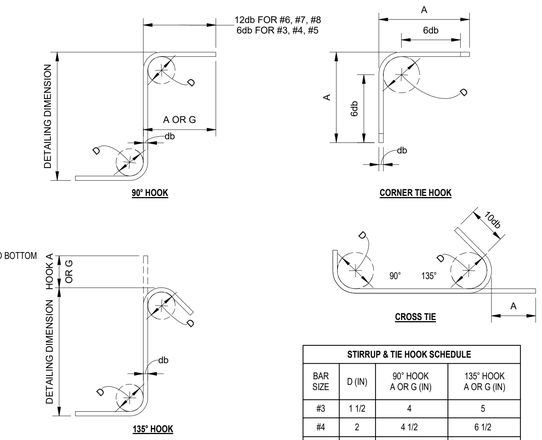
GRADE BEAM SCHEDULE						
MARK	GRADE BEAM WIDTH	GRADE BEAM DEPTH	TOP REINFORCEMENT	MIDDLE REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS
GB-A	18"	24"	3 - #6 BARS	N/A	3 - #6 BARS	#3 @ 24" O.C.



1 TYPICAL PEMB ANCHOR BOLT ASSEMBLY
1" = 1'-0"

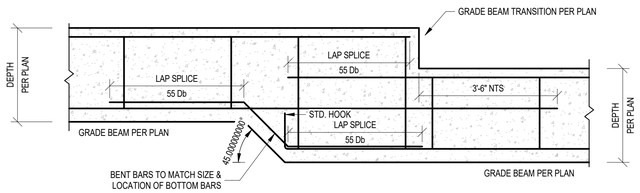


2 TYPICAL GRADE BEAM INTERSECTION
3/4" = 1'-0"

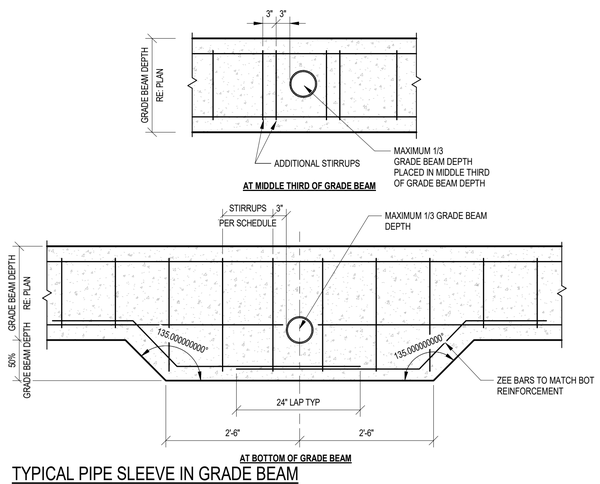


STIRRUP & TIE HOOK SCHEDULE			
BAR SIZE	D (IN)	90° HOOK A OR G (IN)	135° HOOK A OR G (IN)
#3	1 1/2	4	5
#4	2	4 1/2	6 1/2
#5	2 1/2	6	8

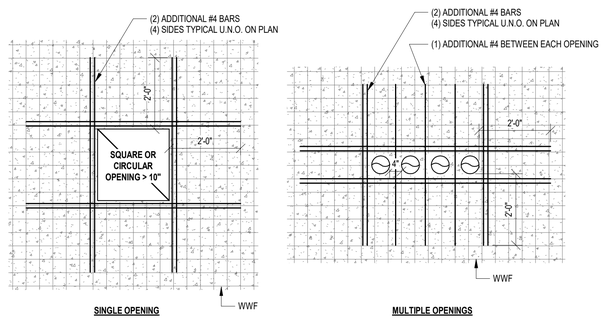
3 TYPICAL STIRRUPS AND TIES
3/4" = 1'-0"



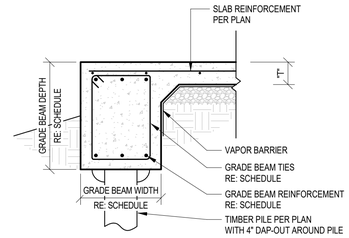
4 TYPICAL GRADE BEAM TRANSITION
3/4" = 1'-0"



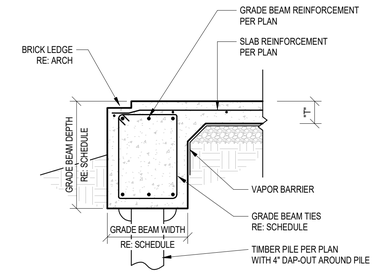
5 TYPICAL PIPE SLEEVE IN GRADE BEAM
3/4" = 1'-0"



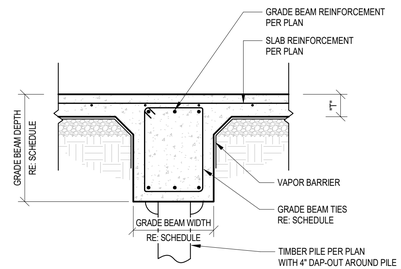
6 TYPICAL OPENINGS IN SLAB ON GRADE
1/2" = 1'-0"



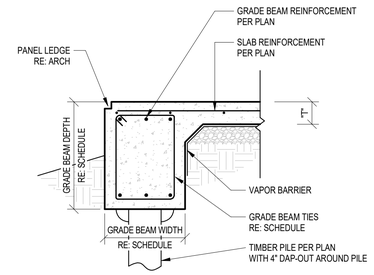
7 TYPICAL EXTERIOR GRADE BEAM
3/4" = 1'-0"



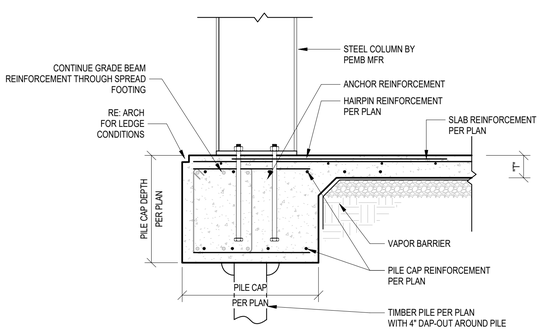
8 TYPICAL EXTERIOR GRADE BEAM AT BRICK LEDGE
3/4" = 1'-0"



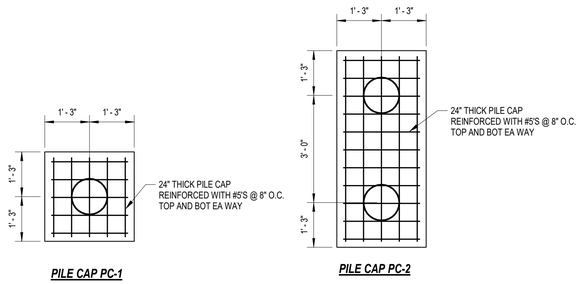
9 TYPICAL INTERIOR GRADE BEAM
3/4" = 1'-0"



10 TYPICAL EXTERIOR GRADE BEAM AT PANEL LEDGE
3/4" = 1'-0"



11 TYPICAL PILE CAP AT PEMB COLUMN
3/4" = 1'-0"



12 PILE CAP DETAILS
1/2" = 1'-0"

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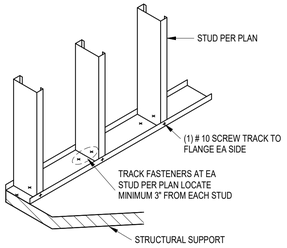
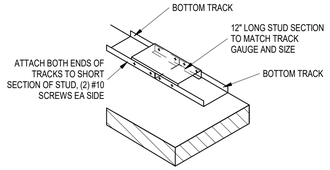
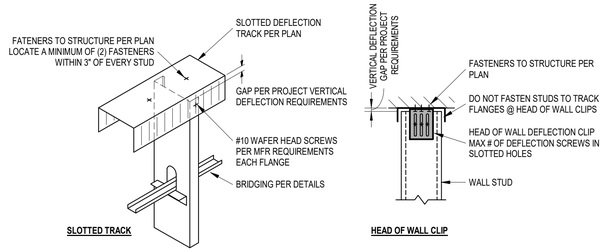


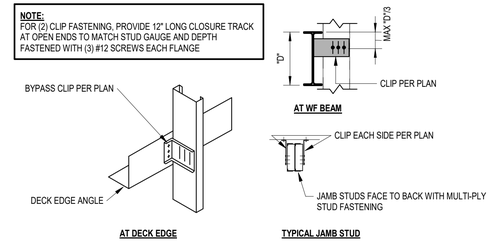
1 TYPICAL BOTTOM TRACK ANCHORAGE
3/4" = 1'-0"



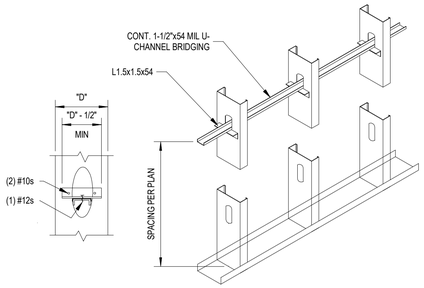
2 TYPICAL BOTTOM TRACK SPLICE
3/4" = 1'-0"



3 TYPICAL HEAD OF WALL ANCHORAGE
3/4" = 1'-0"

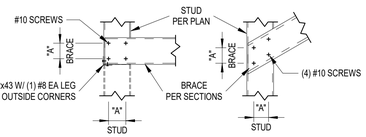


4 TYPICAL BYPASS CLIP ATTACHMENT
3/4" = 1'-0"

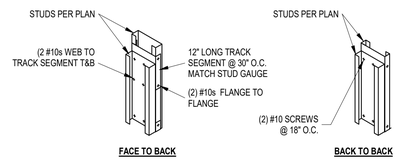


5 TYPICAL BRIDGNING DETAIL
3/4" = 1'-0"

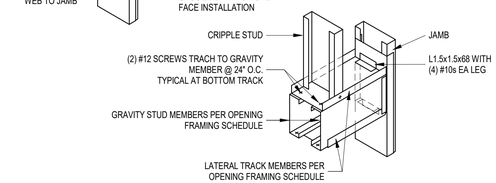
FRAMING DEPTH	"A"	# SCREWS
2-1/2"	1-1/2"	2
3-5/8"	2-1/2"	4
6"	4"	4
8"	6"	6
10"	"8"	8
12"	"10"	10



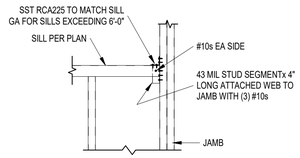
6 TYPICAL LAP CONNECTION
3/4" = 1'-0"



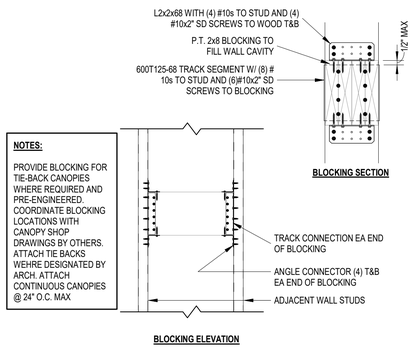
7 TYPICAL MULTI PLY STUD AND JAMB ATTACHMENT
3/4" = 1'-0"



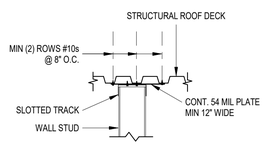
8 TYPICAL HEADER ATTACHMENT
1" = 1'-0"



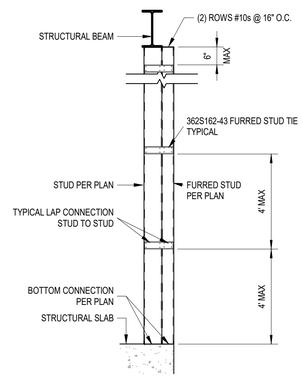
9 TYPICAL SILL ATTACHMENT
3/4" = 1'-0"



10 TYPICAL PRE-ENGINEERED CANOPY BLOCKING DETAIL
1" = 1'-0"

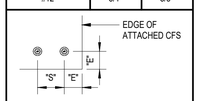


11 TYPICAL HEAD OF WALL @ ROOF DECK
3/4" = 1'-0"



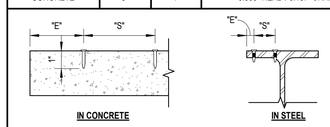
12 TYPICAL FURRED STUD
1/2" = 1'-0"

TYPICAL TEK SCREW SPACING		
SCREW SIZE	"S" MIN	"E" MIN
#10	5/8"	5/16"
#12	3/4"	3/8"



ALL SCREWS TO PENETRATE A MIN OF (3) THREADS PAST FINAL PLY

TYPICAL POWDER ACTUATED FASTENER SPACING			
BASE MATERIAL	"S" MIN	"E" MIN	TYPE
STEEL	1-1/2"	1/2"	0.300" HEAD / 0.157" KNURLED SHANK
CONCRETE	3"	4"	0.300" HEAD / 0.157" SHANK



SOUTHEAST ENGINEERS & LAND SURVEYORS
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SCOTT, LOUISIANA 70583

REVISIONS	BY

NEW RESTAURANT AND LEASE SPACE FOR

MANISUP

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STATE OF LOUISIANA
RYAN C. DUNLEVY
License No. 42707
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/20/2026

DRAWN	RD
CHECKED	RD
DATE	5.20.2026
PROJECT NO.	25-1403

S401

5 OF 6 SHEETS

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GENERAL

ALL DESIGN LOADS SHOWN ON THE STRUCTURAL PLANS ARE ALLOWABLE STRESS DESIGN (UNFACTORED) SERVICE LOADS.

ALL METHODS, PROCEDURES, AND SEQUENCES OF WORK ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL ENSURE ALL PRECAUTIONS ARE TAKEN TO MAINTAIN THE INTEGRITY OF THE STRUCTURE THROUGHOUT ALL STAGES OF CONSTRUCTION.

REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR ALL ITEMS OMITTED FROM THE STRUCTURAL PLANS.

IF A CONFLICT IS OBSERVED IN THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD FOR PROPER GUIDANCE AND CLARIFICATION PRIOR TO CONSTRUCTION.

THE STRUCTURAL INTEGRITY OF THE DESIGN DEPENDS ON THE FULL INTERACTION OF ALL ITS FRAMING MEMBERS AND CLADDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY SHORE AND BRACE ALL STAGES OF CONSTRUCTION UNTIL THE STRUCTURE IS COMPLETED.

THE GENERAL CONTRACTOR SHALL COORDINATE THE STRUCTURAL DRAWINGS WITH ALL OTHER DRAWINGS.

ALL EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, AND QUANTITIES SHALL BE VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO ANY FABRICATION OR INSTALLATION.

SCALING OF THE STRUCTURAL DRAWINGS SHALL NOT BE PERMITTED. IF ANY DIMENSIONS VITAL TO CONSTRUCTION ARE NOT SHOWN ON THE ARCHITECTURAL OR STRUCTURAL DRAWINGS, CONTRACTOR SHALL SEND FORMAL REQUEST TO THE ARCHITECT OR ENGINEER OF RECORD FOR CLARIFICATION.

IN THE EVENT OF CONFLICTING OR DIFFERING REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS AND/OR SPECIFICATIONS THAT HAVE NOT BEEN SUBSEQUENTLY CLARIFIED OR CHANGED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY, GREATER QUANTITY, OR MORE STRINGENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER OF RECORD.

CODES AND DESIGN SPECIFICATIONS

BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2021

AMERICAN CONCRETE INSTITUTE (ACI 318 LATEST EDITION)

NATIONAL DESIGN SPECIFICATION FOR WOOD FRAMING (NDS LATEST EDITION)

AMERICAN INSTITUTE FOR STEEL CONSTRUCTION (AISC LATEST EDITION)

AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE 7-16)

DESIGN LOADS

- FIRST FLOOR DESIGN LOADS

  LIVE LOAD = 100 PSF

- ROOF DESIGN LOADS

  ROOF COLLATERAL DEAD LOAD = 10 PSF
  ROOF LIVE LOAD = 20 PSF

- WIND LOAD CRITERIA

  ULTIMATE WINDSPEED = 130 MPH
  NOMINAL WINDSPEED = 101 MPH
  OCCUPANCY CATEGORY = II
  EXPOSURE = B
  INTERNAL PRESSURE COEFFICIENT = +/- 0.18

GEOTECHNICAL (GEOTECHNICAL INVESTIGATION PROVIDED)

THE FOUNDATION DESIGN WAS BASED ON THE FOLLOWING GEOTECHNICAL INFORMATION:

GEOTECHNICAL INVESTIGATION BY: LOUISIANA TESTING & INSPECTION
DATE OF REPORT: APRIL 17, 2026
REPORT NUMBER: 4693-BO
CLASS # PILE DATA: 9 TONS COMPRESSION / 5 TONS TENSIONS @ 30' EMBEDMENT

PERFORM EARTHWORK, STRUCTURAL FILL, AND PILE DRIVING IN STRICT ACCORDANCE WITH THE GEOTECHNICAL REPORT.

REMOVE ALL VEGETATION AND DEBRIS, INCLUDING TREES AND ROOT SYSTEMS, PAVEMENTS, SIDEWALKS, BUILDING FOUNDATIONS, AND ABANDONED UTILITIES.

STRIP A MINIMUM OF 6" OF EXISTING SOIL AND REMOVE ALL ROOTS, ORGANIC MATERIALS AND UNSTABLE SOILS PRIOR TO PLACING ANY FILL.

PROOF ROLL THE EXPOSED SUBGRADE TO DETECT SOFT OR YIELDING SOILS. REMOVE ANY SOFT OR YIELDING SOILS, SCARIFY, MOISTURE CONDITION, AND RE-COMPACT IN ACCORDANCE WITH ASTM D-698.

STRUCTURAL FILL SHALL BE LEAN CLAY WITH A PI BETWEEN 15 AND 25 COMPACTED TO 95% STANDARD PROCTOR DENSITY IN MAXIMUM OF 8" LIFTS.

CONTRACTOR AND OWNER TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE FOUNDATION DURING AND THROUGHOUT THE STRUCTURE LIFE.

THE GENERAL CONTRACTOR SHALL MAINTAIN A COPY OF THE GEOTECHNICAL REPORT ON SITE. IN THE EVENT OF CONFLICTING OR DIFFERING REQUIREMENTS INDICATED ON THE STRUCTURAL DRAWINGS AND/OR GEOTECHNICAL REPORT THAT HAVE NOT BEEN SUBSEQUENTLY CLARIFIED OR CHANGED, THE CONTRACTOR SHALL PROVIDE THE BETTER QUALITY, GREATER QUANTITY, OR MORE STRINGENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER OF RECORD.

SHOP DRAWINGS:

SHOP DRAWINGS SHALL BE SUBMITTED TO THE DESIGN TEAM DIGITALLY UPON COMPLETION AND APPROVAL FROM THE GENERAL CONTRACTOR.

ENGINEER OF RECORD WILL REVIEW ALL STRUCTURAL COMPONENT SHOP DRAWINGS FOR CONFORMANCE TO DESIGN LOADS AND LOAD PATHS ONLY. ALL GEOMETRIC LAYOUTS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO THE ENGINEER OF RECORD. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS PRIOR TO THE ORDERING OF MATERIALS AND RELEASING FOR FABRICATION.

SHOP DRAWINGS FOR THE FOLLOWING STRUCTURAL COMPONENTS SHALL BE SUBMITTED:

CONCRETE REINFORCEMENT
CONCRETE MIX DESIGN
PRE-ENGINEERED METAL BUILDING*
COLD-FORMED METAL FRAMING*

*INDICATES ITEMS REQUIRING A PROFESSIONAL ENGINEER WHO WILL ACT AS A COMPONENTS ENGINEER FOR THE GENEREAL CONTRACTOR. THESE ITEMS WILL REQUIRE SHOP DRAWINGS AND CALCULATIONS TO BE AFFIXED WITH A SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED. ALL SHOP DRAWINGS SHALL BE ACCOMPANIED BY A SET OF SEALED CALCULATIONS INCLUDING ALL REACTIONS. SUBMITTAL SHALL INCLUDE ALL APPLICABLE DESIGN LOADS, BEARING POINTS, CONNECTIONS, BRACING, AND ALL ITEMS PERTAINING TO A SAFE FABRICATION, ERECTION, AND SERVICE OF COMPONENTS.

CONTRACTOR SHALL PROVIDE A MINIMUM OF FOURTEEN (14) CALENDAR DAYS TO THE DESIGN TEAM FOR REVIEW.

PRE ENGINEERED METAL BUILDING (PEMB)

THE PEMB STRUCTURE SHALL BE DESIGNED BY THE SUPPLIER IN ACCORDANCE WITH ASCE 7-16 LOADING CRITERIA, AISC "MANUAL OF STEEL CONSTRUCTION", AND MBMA PROVISIONS. THE STAMPED PEMB DRAWINGS SHALL CONSIDER THE FOLLOWING MINIMUM DESIGN CRITERIA.

ROOF COLLATERAL LOAD ON PURLINS AND RIGID FRAMES = 10 PSF
ROOF LIVE LOAD = 20 PSF (MINIMUM WITH LIVE LOAD REDUCTION = 12 PSF)
BUILDING DRIFT NOT TO EXCEED H/300 FOR A 10 YEAR MEAN RETURN INTERVAL WIND SPEED
RIGID FRAME RAFTER & PURLIN DEFLECTION CRITERIA = L/180
SPANDREL DEFLECTION CRITERIA @ METAL PANELS = L/240
SPANDREL DEFLECTION CRITERIA @ BRICK VENEER = L/600

THE PRE-ENGINEERED METAL BUILDING MANUFACTURER SHALL BE A MEMBER OF THE METAL BUILDING MANUFACTURERS ASSOCIATION MBMA.

PEMB SUPPLIER TO PROVIDE LEVELING PLATES AS REQUIRED FOR FLUSH ATTACHMENT OF COMPONENTS TO BEAMS WITHIN THE ROOF CAVITY.

PEMB GRID LINES ARE SHOWN FOR GENERAL REFERENCE ONLY. FINAL GRID SPACING AND LOCATION T.B.D. BY THE PEMB SUPPLIER AND COORDINATED WITH ALL OTHER DRAWINGS BY THE G.C.

CAST-IN-PLACE CONCRETE

ALL CONCRETE WORK SHALL BE CONDUCTED IN ACCORDANCE WITH THE ACI STANDARD "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318 LATEST EDITION).

CONCRETE MIX DESIGNED SHALL BE ESTABLISHED BY THE SUPPLIER IN ACCORDANCE WITH ACI 318. MIX DESIGNS SHALL BE SUBMITTED WITH BACKUP DATA PER ACI 318 TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONCRETE BATCHING. THE PROPOSED MATERIALS AND MIX SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS ON THE GENERAL CONTRACTOR.

ALL CONCRETE SHALL CONFORM TO THE REQUIREMENTS SPECIFIED IN THE TABLE BELOW:

USE	COMPRESSIVE STRENGTH	MAXIMUM AGGREGATE SIZE
ALL FOUNDATION CONCRETE	3,000 PSI	3/4"

WATER/CEMENT RATIO SHALL BE LIMITED TO 0.50 MAXIMUM.

SLEEVES, MECHANICAL OPENINGS, CONDUITS, PIPES, RECESSES, DEPRESSIONS, AND ALL EMBEDDED ITEMS SHALL BE PROVIDED FOR AS PER THE MECHANICAL, ELECTRICAL, AND ARCHITECTURAL DRAWINGS.

ENGINEER OF RECORD DOES NOT PERMIT THE USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS THAT MAY CAUSE EXCESSIVE CORROSION IN THE REINFORCING STEEL.

A MINIMUM 15 MIL POLYETHYLENE VAPOR BARRIER SHALL BE PROPERLY INSTALLED AND SEALED UNDER ALL INTERIOR SLABS ON GRADE.

CONTRACTOR SHALL REFER TO THE FOUNDATION DRAWINGS FOR ADDITIONAL INFORMATION.

ALL FLOOR DRAINS, DROPS, CURBS, LEDGES, ETC. SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

CONTRACTOR SHALL PLACE AND SECURE ALL REINFORCEMENT, ANCHOR BOLTS, ETC. PRIOR TO PLACING ANY CONCRETE. WET PLACING ANY OF THESE ITEMS DURING CONCRETE PLACEMENT IS NOT PERMITTED.

WATER MAY NOT BE ADDED TO BATCH AT THE SITE UNLESS IT IS SPECIFICALLY NOTED THAT IT MAY BE ADDED BY THE READY-MIX COMPANY.

CONCRETE REINFORCEMENT

ALL CONCRETE REINFORCEMENT SHALL BE DETAILED AND ACCESSORIES PROVIDED IN ACCORDANCE WITH THE PROVISIONS OF ACI 318 (LATEST EDITION).

ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 60 (Fy = 60,000 PSI MIN.) UNLESS OTHERWISE SHOWN.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 AND SHALL BE PROVIDED IN FLAT SHEETS ONLY.

WELDED WIRE FABRIC SHALL BE LAPPED A MINIMUM OF 2 MESHES, BUT NOT LESS THAN 12".

ALL REINFORCING STEEL SHALL BE SUPPORTED ON PLASTIC CHAIRS AT 48" O.C. E.W.

ALL BAR SPLICES, WHERE REQUIRED SHALL CLASS "B" TENSION LAP SPLICES (2'-0" MINIMUM).

CONCRETE PROTECTION FOR REINFORCEMENT OF CAST-IN-PLACE CONCRETE MEMBERS SHALL BE IN ACCORDANCE WITH ACI 318-14 UNLESS OTHERWISE NOTED. MINIMUM CLEAR COVER OF CONCRETE OVER OUTER REINFORCING BARS SHALL BE IN ACCORDANCE WITH BELOW.

1. CONCRETE PERMANENTLY CAST AGAINST EARTH ..... 3"
2. CONCRETE EXPOSED TO EARTH OR WEATHER
   #6 THROUGH #11 BARS ..... 2"
   #5 BAR AND SMALLER..... 1 1/2"

ALL REINFORCING STEEL SHALL BE ADEQUATLY TIED TOGETHER AND SUPPORTED TO ENSURE PROPER LOCATION OF REINFORCEMENT IN ACCORDANCE WITH THE STRUCTURAL DESIGN.

BARS SHALL BE IN CONTACT WHEN FORMING A LAP SPLICE, UNLESS NOTED OTHERWISE.

ALL DOWELS SHALL MATCH THE SIZE AND SPACING OF THE SPECIFIED WALL OR COLUMN REINFORCEMENT AND SHALL BE LAPPED WITH A CLASS "B" TENSION LAP SPLICE.

POST-INSTALLED ANCHORS

POST-INSTALLED ANCHORS SHALL ONLY BE USED WITH THE PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD.

CONTRACTOR SHALL AVOID DAMAGING ANY REINFORCING STEEL OR POST-TENSIONED TENDONS WHEN DRILLING HOLES FOR POST-INSTALLED ANCHORS.

POST-INSTALLED ANCHOR HOLES SHALL BE ADEQUATELY CLEANED PER THE MANUFACTURER'S RECOMMENDATIONS FOR THE EPOXY SELECTED BY THE ENGINEER OF RECORD.

IBC CHAPTER 17 SPECIAL INSPECTIONS

THE OWNER OR THE OWNER'S REPRESENTATIVE IS REQUIRED TO PROVIDE SPECIAL INSPECTIONS IN ACCORDACNE WITH CHAPTER 17 OF IBC 2021. THE GENERAL CONTRACTOR IS REQUIRED TO ENGAGE AND ACCOMODATE THE REQUIRED SPECIAL INSPECTIONS BY PROVIDING ACCESS TO ELEMENTS REQUIRED FOR INSPECTION AND NOTIFYING THE TESTING AGENCY 48 HOURS PRIOR TO A REQUIRED INSPECTION EVENT. THE CONTRACTOR SHALL PROVIDE REPORTS FROM THE TESTING AGENCY INDICATING COMPLIANCE WITH IBC REQUIREMENTS FOR:

SOILS	(IBC1705.6)
CONCRETE CONSTRUCTION	(IBC 1705.3)
METAL BUILDING SYSTEMS	(IBC 2024 1705.2.6)

LIGHT-GAUGE METAL FRAMING

LIGHT GAUGE SUPPLIER MUST BE A MEMBER AND PROVIDE SECTIONS MEETING THE QUALITY AND STANDARDS SET FORTH BY THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA). LIGHT GAUGE MEMBER SIZING DESIGNATIONS ARE PER THE NOMENCLATURE ESTABLSHED BY SSMA.
SEE EXAMPLE BELOW:

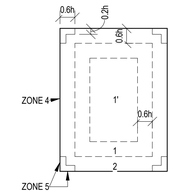
800S200-43
800 = MEMBER DEPTH
S = MEMBER TYPE
200 = FLANGE WIDTH
43 = MAXIMUM DESIGN THICKNESS IN ACCORDANCE WITH SSMA IN MILS.

ALL LIGHT GAUGE MEMBERS SHALL HAVE A MINIMUM THICKNESS OF 18-GAUGE UNLESS NOTED OTHERWISE.

ALL CONDUIT AND OTHER PENETRATIONS SHALL BE MADE THROUGH THE METAL STUD PUNCHES. ANY ADDITIONAL PENETRATIONS SHALL BE COORDINATED WITH THE LIGHT GAUGE METAL ENGINEER.

ALL LIGHT GAGE STEEL WALL FRAMING SHALL MEET THE FOLLOWING DEFLECTION CRITERIA:

FLEXIBLE FINISHES	L/240
BRICK VENEER	L/600
OTHER FINISHES	L/360



FLAT, HIP, GABLE θ ≤ 7°

GENERAL NOTES:

1. PRESSURES SHOWN IN THE SCHEDULE ARE ULTIMATE LEVEL (FACTORED) LOADS PER ASCE 7-16 AND IBC 2021. WHERE SERVICE LEVEL (UNFACTORED WIND PRESSURES ARE NEEDED FOR DESIGN, THE TABLE PRESSURES SHALL BE MULTIPLIED BY A FACTOR OF 0.60.
2. TABLE PRESSURES ARE FOR THE EFFECTIVE AREA OF COMPONENTS SHOWN. FOR OTHER EFFECTIVE AREAS, LINEAR INTERPOLATE BETWEEN THE TABULATED VALUES.
3. POSITIVE PRESSURE INDICATES PRESSURE ACTING TOWARDS THE BUILDING. NEGATIVE PRESSURES ACT AWAY FROM THE BUILDING.
4. A MINIMUM DEAD LOAD EQUAL TO 5 PSF MAY BE INCLUDED FOR NET ROOF UPLIFT PRESSURES.

h = MEAN ROOF HEIGHT
a = 10% OF THE LEAST HORIZONTAL DIMENSION OR 0.4h, WHICHEVER IS SMALLER, BUT NOT LESS THAN EITHER 4% OF THE LEAST HORIZONTAL DIMENSION OR 3 FT

COMPONENTS AND CLADDING DESIGN PRESSURES

GABLE ROOF - OFFICE (PSF)				
ZONE	**10 SF**	**25 SF**	**50 SF**	**100 SF**
1	16 / -40	16 / -36	16 / -34	16 / -31
2	16 / -52	16 / -48	16 / -45	16 / -41
3	16 / -71	16 / -63	16 / -56	16 / -49
1'	16 / -23	16 / -23	16 / -23	16 / -23
2e	NA	NA	NA	NA
2n	NA	NA	NA	NA
2r	NA	NA	NA	NA
3e	NA	NA	NA	NA
3r	NA	NA	NA	NA
WALLS (PSF)				
ZONE	**10 SF**	**25 SF**	**50 SF**	**100 SF**
4	17 / -27	16 / -26	16 / -24	16 / -23
5	17 / -33	16 / -30	16 / -28	16 / -26
PARAPET (PSF)				
ZONE	**10 SF**	**25 SF**	**50 SF**	**100 SF**
4p	70	64	61	57
5p	89	79	72	65

ABBREVIATIONS

@	AT	GA.	GAGE
A.F.F.	ABOVE FINISHED FLOOR	GB	GRADE BEAM
ARCH.	ARCHITECTURAL	MECH.	MECHANICAL
BM.	BEAM	O.C.	ON CENTER
B.O.S.	BOTTOM OF STEEL	O.C.E.W.	ON CENTER EACH WAY
BOT.	BOTTOM	P.T.	POST-TENSION
B.O.B.P.	BOTTOM OF BASE PLATE	SIM.	SIMILAR
C.G.	CENTER OF GRAVITY	T.O.	TOP OF
COL.	COLUMN	T.O.C.	TOP OF CONCRETE
CONT.	CONTINUOUS	T.O.J.	TOP OF JOIST
CXN	CONNECTION	T.O.S.	TOP OF SLAB
DL	DEAD LOAD	U.N.O.	UNLESS NOTED OTHERWISE
LL	LIVE LOAD	V.O.J.	VERIFY ON JOBSITE
EL.	ELEVATION	PL.	PLATE
ELEC.	ELECTRICAL	CL.	CENTER LINE
E.O.A.	EDGE OF ANGLE	U.W.A.	UNDER WALL ABOVE
E.O.S.	EDGE OF SLAB	PEMC	PRE-ENGINEERED METAL CANOPY
FF	FINISHED FLOOR	PEMB	PRE-ENGINEERED METAL BUILDING
H.D.G.	HOT DIP GALVANIZED	PEMBS	PEMB SUPPLIER
PLF	LBF PER LINEAR FOOT	EOR	ENGINEER OF RECORD
WWF	WELDED WIRE FABRIC	BRG	BEARING
CFMF	COLD-FORMED METAL FRAMING		

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STATE OF LOUISIANA
RYAN C. DUNLEVY
License No. 42707
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
5/20/2026

DRAWN	RD
CHECKED	RD
DATE	5.20.2026
PROJECT NO.	25-1403

S501

6 OF 6 SHEETS

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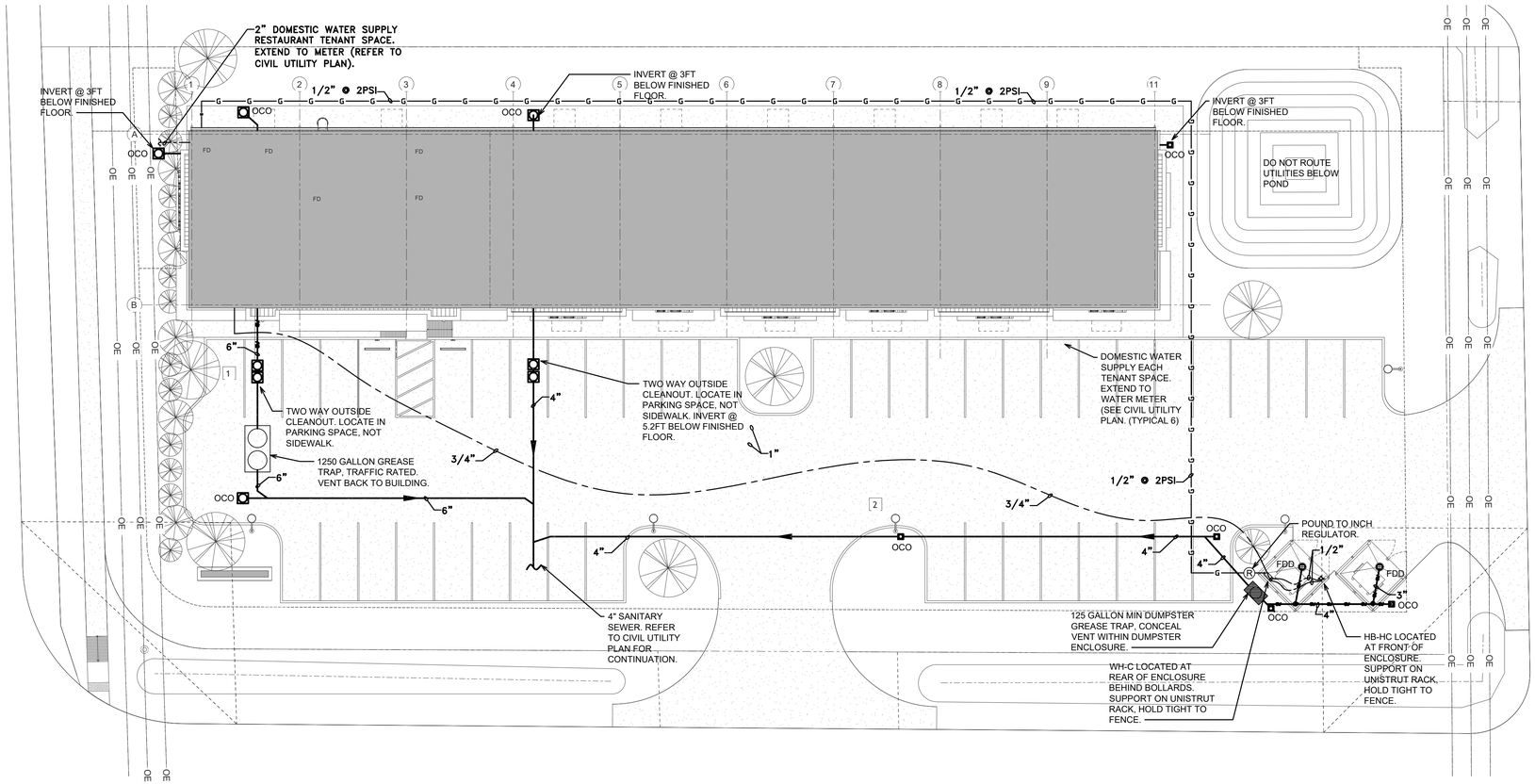

1 MECHANICAL SITE PLAN
1/16" = 1'-0"

01'2'4' 8' 16' 24'
GRAPHIC SCALE:1/16"=1'-0"

NORTH

MECHANICAL SITE PLAN GENERAL NOTES:

THE FOLLOWING IS A BRIEF DESCRIPTION OF WORK SPECIFIC TO CERTAIN ASPECTS OF THIS PROJECT. THIS IS NOT INTENDED TO BE A COMPREHENSIVE SUMMARY OF WORK. PROSPECTIVE BIDDERS/CONTRACTORS SHALL REVIEW ALL CONSTRUCTION DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS AND MAKE ALLOWANCES FOR ALL WORK INCLUDED HEREIN AND ANY ADDITIONAL WORK REQUIRED TO COMPLETE THIS PROJECT. MEANS AND METHODS FOR THE PROPER INSTALLATION OF THIS WORK IS STRICTLY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS.

1. REFER TO CIVIL UTILITY PLANS FOR ALL SITE UTILITIES INCLUDING BACKFLOW PREVENTERS, METERS, TAPS, ETC.
2. EXISTING UTILITIES SHOWN ON THESE PLANS ARE BASED UPON EXISTING PLANS PROVIDED BY OTHERS, ACTUAL LOCATION OF UTILITIES MAY VARY FROM WHAT IS SHOWN. THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND SHALL EXTEND/OFFSET NEW UTILITIES IN THE FIELD AS REQUIRED FOR CONNECTION TO EXISTING. NO EXTRA COSTS SHALL BE ASSOCIATED WITH THESE OFFSETS.
3. CONTRACTOR SHALL COORDINATE ALL CONNECTIONS WITH THE LOCAL UTILITY COMPANY AND SHALL BE RESPONSIBLE FOR CONNECTIONS TO MAINS, METERS AND EXTENSION OF SERVICES. CONTRACTOR SHALL PAY ALL FEES FOR SERVICES AND SHALL CONNECT TO MAIN AS DIRECTED BY LOCAL UTILITY COMPANY.
4. CONTRACTOR SHALL VERIFY ALL INVERTS OF EXISTING SERVICES PRIOR TO STARTING ANY ROUGH-INS TO ASSURE PIPING IS RUN AT THE PROPER SLOPE. FAILURE TO SO SHALL REQUIRE CORRECTION AT CONTRACTOR'S EXPENSE.
5. CONTRACTOR SHALL CONTACT THE LOCAL UTILITY COMPANY TO LOCATE ALL EXISTING BURIED UTILITY LINES PRIOR TO BEGINNING WORK. IN THE STATE OF LOUISIANA DIAL LOUISIANA ONE CALL, 811.
6. ANY REQUIRED BORING UNDER ROADWAYS OR WALKS SHALL BE COORDINATED WITH THE LOCAL AUTHORITIES TO SECURE THE PROPER PERMITS AND REQUIREMENTS. ALL APPLICABLE FEES SHALL BE PAID FOR BY THE CONTRACTOR.
7. CONTRACTOR SHALL OFFSET NEW UTILITIES OVER/UNDER EXISTING/NEW UNDERGROUND LINES/PIPING AS REQUIRED TO AVOID CONFLICT (SEWER/STORM PIPING SHALL MAINTAIN PROPER SLOPE). NO EXTRA COSTS SHALL BE ASSOCIATED WITH THESE OFFSETS.
8. CONTRACTOR SHALL COORDINATE THE FINAL ELEVATION OF ALL EXTERIOR CLEANOUTS, VALVES, ETC. WITH FINAL GRADE. COORDINATE WITH ARCHITECTURAL AND LANDSCAPING REQUIREMENTS. RAISE EQUIPMENT AS REQUIRED.
9. PIPE AND PIPE FITTINGS, INCLUDING VALVES AND FAUCETS, UTILIZED IN THE WATER SUPPLY SYSTEM SHALL MEET LA STATE PLUMBING CODE LEAD CONTENT REQUIREMENTS IN ACCORDANCE WITH LA LOW LEAD ACT.
10. CONTRACTOR SHALL CUT AND PATCH EXISTING WALKS, DRIVES, SLAB, ETC AS REQUIRED FOR THE REMOVAL OF EXISTING OR INSTALLATION OF NEW SERVICES. COORDINATE THE EXACT ROUGH IN OF ALL WORK WITH EXISTING CONDITIONS TO MINIMIZE DISRUPTION TO EXISTING SERVICES.
11. CONTRACTOR SHALL PROVIDE PERMANENT LABELING OF ALL EQUIPMENT. EQUIPMENT LOCATED OUTSIDE SHALL REQUIRE PLASTIC ENGRAVED TAGS.
12. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS TO DOCUMENT ALL FIELD MODIFICATIONS, TO BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT.

SEWER LINE GENERAL NOTES:

1. INVERTS SHOWN ON THIS PLAN SHALL BE VERIFIED PRIOR TO STARTING ANY ROUGH-IN. SUBMIT INSTALLATION DRAWINGS WITH INVERTS COORDINATED AND VERIFIED PRIOR TO STARTING INSTALLATION.
2. ALL SEWER LINES SHALL BE SLOPED AS FOLLOWS:

   8" OR LARGER: 1/16" PER FT.
   3" TO 6": 1/8" PER FT.
   2.5" OR LESS: 1/4" PER FT.

3. ALL SITE SEWER LINES SHALL BE SOLID CORE SCHEDULE 40 PVC PIPE AND FITTINGS WITH SOLVENT WELD JOINTS.
4. COORDINATE ROUTING OF SEWER LINES WITH SUBSURFACE STORM DRAIN PRIOR TO STARTING INSTALLATION.
5. COORDINATE ALL MECHANICAL SITE WORK WITH OTHER TRADES. AVOID ANY AND ALL CONFLICTS BY OFFSETTING LINES IF NECESSARY. ALL COSTS FOR OFFSETS SHALL BE PART OF THIS PROJECT. ALL OFFSETS SHALL BE APPROVED BY THE ARCHITECT/ENGINEER.
6. CLEANOUTS SHALL BE INSTALLED ON THE SANITARY SEWER LINES AT MAXIMUM 80FT INTERVALS, WITHIN 6FT OF THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER, AT THE UPSTREAM ENDS OF PIPE, IN CHANGES IN DIRECTION OVER 45° AND AS OTHERWISE REQUIRED BY THE LOUISIANA STATE PLUMBING CODE.
7. ALL SANITARY DRAIN LINES SHALL BE INSTALLED IN A TRENCH WITH BOTTOM OF UNDISTURBED SOIL (OR SOIL COMPACTED TO 95%) WITH A MINIMUM OF 12" OF BEDDING MATERIAL BELOW THE PIPE AND MATERIAL SUPPORTING THE SIDES.

NOTE:
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2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

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2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

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REVISIONS	BY

RESTAURANT AND LEASE SPACE FOR

MANISUP

4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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STATE OF LOUISIANA
ANDREA B. MANCEAUX
License No. 39890
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
5-20-26

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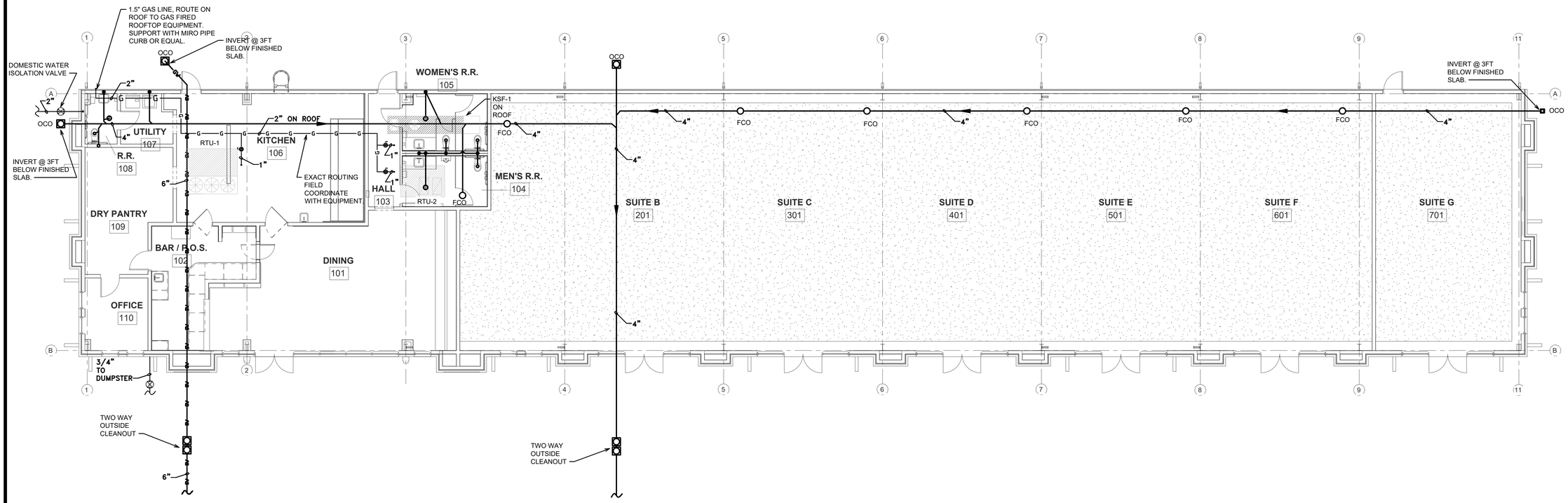
1 OF 12 SHEETS



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3. THE ROUTING OF ALL PIPING SHALL BE COORDINATED WITH ALL THE OTHER TRADES TO AVOID POSSIBLE CONFLICTS. OFFSET PIPING AS REQUIRED.
4. ALL DOMESTIC WATER PIPING SHALL BE RUN ABOVE THE CEILING AND/OR CONCEALED IN WALLS UNLESS OTHERWISE NOTED.
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1 PLUMBING OVERALL FLOOR PLAN
1/8" = 1'-0"

0 1' 2' 4' 8' 16'
GRAPHIC SCALE: 1/8"=1'-0"

NORTH

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2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

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REVISIONS	BY

RESTAURANT AND LEASE SPACE FOR
MANISUP
4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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IN
MECHANICAL ENGINEERING
5-20-26

DRAWN	FJM/ABM
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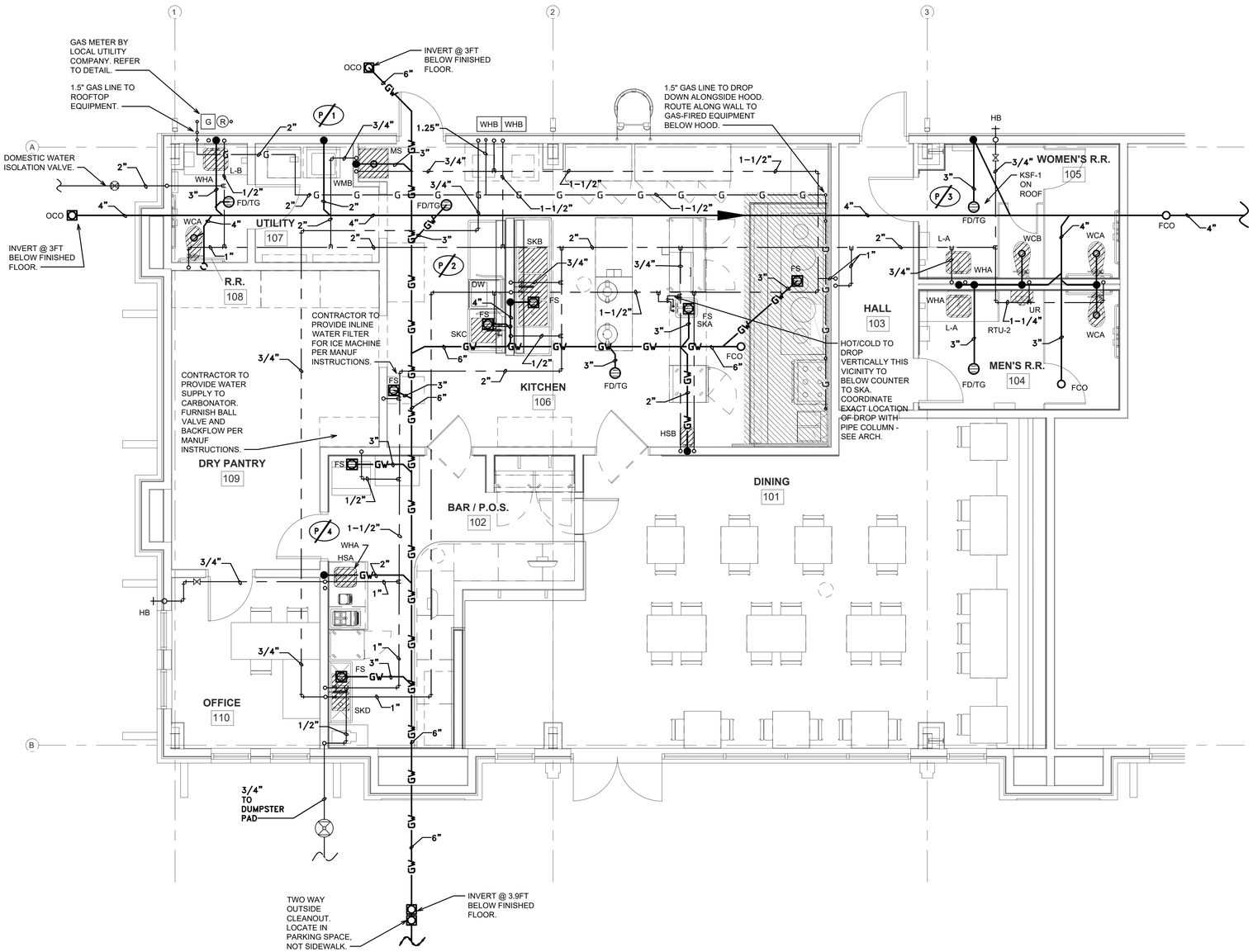

1 PLUMBING ENLARGED FLOOR PLAN
1/4" = 1'-0"

0 .5' 1' 2' 4' 8'
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M2.1
3 OF 12 SHEETS

PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	PIPE SIZE					A.D.A. COMPLIANT	REMARKS
		TRAP	WASTE	VENT	C.W.	H.W.		
WCA	WATER CLOSET (HANDICAPPED)	INT	3"	3"	1"	---	YES	KOHLER K-96057 VITREOUS CHINA WATER CLOSET, ELONGATED BOWL, SOLID PLASTIC SEAT WITH OPEN FRONT, CHECK HINGE, BOLT CAPS AND 1.6 GPF MANUAL FLUSH VALVE. LOCATE LEVER ON WIDE SIDE OF STALL, COORDINATE RIGHT HAND/LEFT HAND TRIP LEVER WITH ARCH PLANS.
WCB	WATER CLOSET	INT	3"	3"	1"	---	NO	KOHLER K-96053 VITREOUS CHINA WATER CLOSET, ELONGATED BOWL, SOLID PLASTIC SEAT WITH OPEN FRONT, CHECK HINGE, BOLT CAPS AND 1.6 GPF MANUAL FLUSH VALVE.
L-A	LAVATORY (HANDICAPPED)	1-1/4"	2"	2"	1/2"	1/2"	YES	UNDERMOUNT VITREOUS CHINA LAVATORY KOHLER K-2214, SLOAN EBF-187-4-BAT-ADM-CP-0.5GPM-MLM-BAA-FCT ELECTRONIC BATTERY OPERATED FAUCET WITH ABOVE DECK MIXER, GRID DRAIN, 1-1/4" OFFSET CAST BRASS PTRAP WITH CLEANOUT, ANGLE STOPS, BRASS STEMS AND CHROME PLATED COPPER RISERS. SET AT HEIGHT PER ARCHITECTURAL PLANS. INSTALL ASSE 1070 TEMPERATURE LIMITING DEVICE AT FIXTURE TO LIMIT HOT WATER TEMP.
L-B	LAVATORY (HANDICAPPED)	1-1/4"	2"	2"	1/2"	1/2"	YES	WALL MOUNTED VITREOUS CHINA LAVATORY KOHLER K-2032, SLOAN EBF-187-4-BAT-ADM-CP-0.5GPM-MLM-BAA-FCT ELECTRONIC BATTERY OPERATED FAUCET WITH ABOVE DECK MIXER, GRID DRAIN, 1-1/4" OFFSET CAST BRASS PTRAP WITH CLEANOUT, ANGLE STOPS, BRASS STEMS AND CHROME PLATED COPPER RISERS. SET AT HEIGHT PER ARCHITECTURAL PLANS. INSTALL ASSE 1070 TEMPERATURE LIMITING DEVICE AT FIXTURE TO LIMIT HOT WATER TEMP. FURNISH WITH WALL CARRIER.
UR	URINAL	INT	3"	2"	3/4"	---	YES	KOHLER K-5016-ET VITREOUS CHINA URINAL WITH 1.0 GPF MANUAL FLUSH VALVE.
HSA	HAND SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	YES	ELKAY ELUHAD131655PD STAINLESS STEEL UNDERMOUNT COUNTERTOP HAND SINK WITH BASKET DRAIN, AND T&S BRASS B-1115 FAUCET. FURNISH WITH CAST BRASS P-TRAP WITH CLEANOUT AND 17GA SEAMLESS WALL BEND, CHROME PLATED SOLID BRASS ANGLE STOP, ALL BRASS STEMS AND 12" FLEXIBLE CHROME PLATED COPPER RISERS. INSTALL ASSE 1070 TEMPERATURE LIMITING DEVICE AT FIXTURE TO LIMIT HOT WATER TEMPERATURE.
HSB	HAND SINK	1-1/2"	1-1/2"	1-1/2"	1/2"	1/2"	NO	ADVANCE TABCO 7-PS-22 STAINLESS STEEL WALL MOUNT HAND SINK WITH BASKET DRAIN, AND K-22 FAUCET. FURNISH WITH CAST BRASS P-TRAP WITH CLEANOUT AND 17GA SEAMLESS WALL BEND, CHROME PLATED SOLID BRASS ANGLE STOP, ALL BRASS STEMS AND 12" FLEXIBLE CHROME PLATED COPPER RISERS. INSTALL ASSE 1070 TEMPERATURE LIMITING DEVICE AT FIXTURE TO LIMIT HOT WATER TEMPERATURE.
SKA	SINGLE COMPARTMENT SINK	---	2"	---	1/2"	1/2"	---	SINK, FAUCET AND ACCESSORIES FURNISHED BY OWNER, INSTALLED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TAIL PIECES AND ANGLE STOPS AND SHALL MAKE ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT. EACH SINK BASIN SHALL DRAIN TO FLOOR SINK INDEPENDENTLY, DISCHARGE AT FLOOR SINK WITH AIR GAP.
SKB	TRIPLE COMPARTMENT SINK	---	3"	---	3/4"	3/4"	---	SINK, FAUCET AND ACCESSORIES FURNISHED BY OWNER, INSTALLED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TAIL PIECES AND ANGLE STOPS AND SHALL MAKE ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT. EACH SINK BASIN SHALL DRAIN TO FLOOR SINK INDEPENDENTLY, DISCHARGE AT FLOOR SINK WITH AIR GAP.
SKC	SINGLE COMPARTMENT SINK	---	2"	---	1/2"	1/2"	---	SINK, FAUCET AND ACCESSORIES FURNISHED BY OWNER, INSTALLED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TAIL PIECES AND ANGLE STOPS AND SHALL MAKE ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT. EACH SINK BASIN SHALL DRAIN TO FLOOR SINK INDEPENDENTLY, DISCHARGE AT FLOOR SINK WITH AIR GAP.
SKD	TRIPLE COMPARTMENT SINK	---	3"	---	3/4"	3/4"	NO	SINK, FAUCET AND ACCESSORIES FURNISHED BY OWNER, INSTALLED BY PLUMBING CONTRACTOR. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL TAIL PIECES AND ANGLE STOPS AND SHALL MAKE ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT. EACH SINK BASIN SHALL DRAIN TO FLOOR SINK INDEPENDENTLY, DISCHARGE AT FLOOR SINK WITH AIR GAP.
MS	MOP SINK	3"	3"	2"	3/4"	3/4"	---	FIAT MSB2424 24"X24"X10" MOLDED STONE SERVICE SINK. FURNISH WITH SERVICE SINK FAUCET, DRAIN ASSEMBLY, STAINLESS STEEL WALL GUARDS AND BUMPER GUARD, HOSE AND HOSE BRACKET.
WMB	WASHING MACHINE BOX	2"	2"	2"	1/2"	1/2"	---	OATEY/GUY GREY OR EQUAL WASHING MACHINE BOX WITH ¼ TURN VALVES AND HAMMER ARRESTOR.
IMB	ICE MAKER BOX	---	---	---	1/2"	---	---	OATEY/GUY GREY OR EQUAL ICE MAKER BOX WITH ¼ TURN VALVE AND HAMMER ARRESTOR.
WHA	INSTANTANEOUS WATER HEATER	---	---	---	1/2"	1/2"	---	EEMAX SPEX4208T EE INSTANTANEOUS WATER HEATER, 4.1KW, 208-1-60 ELECTRICAL SERVICE, MAX WATER TEMP 90°F.
WHB	WATER HEATER	---	---	---	3/4"	3/4"	---	RINNAI CU199e CONDENSING EXTERIOR INSTANTANEOUS GAS FIRED WATER HEATER. 199000 BTUH, WITH VENT CAP, ISOLATOR VALVES, PIPE COVER AND MULTI LINK SYSTEM CONTROLLER, 120-1-60 ELECTRICAL SERVICE. (2) REQUIRED. PROVIDE RE-CIRCULATING PUMP IN ACCESSIBLE LOCATION (PROVIDE ACCESS PANEL AS REQUIRED), 120-1-60 ELECTRICAL SERVICE. AT CONTRACTOR'S OPTION AND WHERE AVAILABLE, RE-CIRCULATING PUMP MAY BE INTEGRAL TO WATER HEATER. MOUNT WATER HEATERS ON WALL. COORDINATE LOCATIONS WITH ELECTRICAL CONTRACTOR. WRAP ALL EXTERIOR EXPOSED PIPING WITH 3W/FT, 120-1-60 HEAT TRACE TAPE. WATER HEATERS NOT COMPLIANT WITH ASSE 1082 OR ASSE 1085 SHALL BE FURNISHED WITH MIXING VALVE CONFORMING TO ASSE 1017.
WHC	WATER HEATER DUMPSTER PAD	---	---	---	3/4"	3/4"	---	RINNAI CU160e CONDENSING EXTERIOR INSTANTANEOUS GAS FIRED WATER HEATER. 160000 BTUH, WITH VENT CAP, ISOLATOR VALVES, PIPE COVER AND MULTI LINK SYSTEM CONTROLLER, 120-1-60 ELECTRICAL SERVICE. MOUNT WATER HEATERS ON WALL OF DUMPSTER ENCLOSURE, COORDINATE LOCATION WITH ELECTRICAL CONTRACTOR. WRAP ALL EXTERIOR EXPOSED PIPING WITH 3W/FT, 120-1-60 HEAT TRACE TAPE. WATER HEATERS NOT COMPLIANT WITH ASSE 1082 OR ASSE 1085 SHALL BE FURNISHED WITH MIXING VALVE CONFORMING TO ASSE 1017.

NOTES:

1. INSULATE ALL EXPOSED P-TRAPS AND ANGLE SUPPLIES ON HANDICAPPED LAVATORIES AND SINKS WITH TRUEBRO HANDI LAV-GUARD OR EQUAL. LAV-GUARD SHALL BE SECURED IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS SUCH THAT IT IS SECURE TO PIPING.
2. PROVIDE AND INSTALL PISTON TYPE WATER HAMMER ARRESTORS AT ALL DOMESTIC WATER STUB-OUTS.
3. ALL HANDICAPPED PLUMBING FIXTURES SHALL BE SET TO "ADA" HEIGHT REQUIREMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT HEIGHTS.
4. INSTALL HEAT TRAPS AT WATER HEATER PER IECC 2021.
5. HOT WATER TO LAVATORIES SHALL NOT CONNECT MORE THAN 2FT FROM CIRCULATING PORTION OF HOT WATER LINE PER IECC 2021. THIS SHALL REQUIRE MAIN HOT WATER LINE TO ROUTE IN WALL ADJACENT TO FIXTURE SUCH THAT LOOP IS PASSING WITHIN 2FT OF CONNECTION TO LAVATORY.
6. HOT WATER RECIRCULATION SYSTEM SHALL AUTOMATICALLY TURN OFF PUMP WHEN LOOP IS AT DESIRED TEMP AND WHEN THERE IS NOT A DEMAND FOR HOT WATER. THE CONTROLS SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD WATER PIPING TO NOT GREATER THAN 104dF IN COMPLIANCE WITH IECC C404.6.1.
7. CONTRACTOR SHALL PROVIDE AIR GAPS OR AIR BREAKS AT ALL SINKS AND FOOD SERVICE EQUIPMENT IN ACCORDANCE WITH PLUMBING AND SANITARY CODES.
8. ALL STOPS SHALL BE 1/4 TURN VALVES. PROVIDE CHROME PLATED RISERS TO ALL FIXTURE WATER SUPPLIES.

1 PLUMBING SCHEDULE
N.T.S.

PLUMBING FIXTURE SCHEDULE

NO.	FIXTURE	PIPE SIZE					A.D.A. COMPLIANT	REMARKS
		TRAP	WASTE	VENT	C.W.	H.W.		
FD	FLOOR DRAIN	3"	3"	2"	---	---	---	WADE 1100-G(A) FLOOR DRAIN WITH FLANGE, BOTTOM OUTLET AND 6" NICKEL BRONZE STRAINER. FLOOR DRAINS LOCATED IN TILE FLOORS SHALL HAVE SQUARE STRAINER, FLOOR DRAINS IN CONCRETE FLOORS SHALL HAVE ROUND STRAINER. ALL FLOOR DRAINS SHALL BE FURNISHED WITH TRAP GUARD.
FDD	DUMPSTER FLOOR DRAIN	3"	3"	2"	---	---	---	WADE 1100-L FLOOR DRAIN WITH HINGED COVER, FLANGE, BOTTOM OUTLET AND 6" ROUND NICKEL BRONZE STRAINER. ALL FLOOR DRAINS SHALL BE FURNISHED WITH TRAP GUARD.
FS	FLOOR SINK	3"	3"	2"	---	---	---	WADE 9140 12"X12"X8" FLOOR SINK WITH FLANGE, BOTTOM OUTLET, DOME STRAINER, STAINLESS STEEL BUCKET LINER AND NICKEL BRONZE TOP. FURNISH WITH TRAP GUARD.
TG	TRAP GUARD	---	3"	---	---	---	---	TRAP GUARD, RATED FOR USE IN KITCHENS/GREASE WASTE SYSTEMS.
HB	HOSE BIBB	---	---	---	3/4"	---	---	WOODFORD B24 BOX TYPE HOSE BIBB WITH VACUUM BREAKER AND WHEEL HANDLE.
HB-HC	HOT/COLD HOSE BIBB	---	---	---	3/4"	3/4"	---	HOT AND COLD WATER HOSE BIBB WITH VACUUM BREAKER OR INTEGRAL BACKFLOW PREVENTER AND WHEEL HANDLE, WADE B22/ZURN Z1325 WITH BOX. COORDINATE INSTALLATION WITH DUMPSTER ENCLOSURE.

NOTES:

1. INSULATE ALL EXPOSED P-TRAPS AND ANGLE SUPPLIES ON HANDICAPPED LAVATORIES AND SINKS WITH TRUEBRO HANDI LAV-GUARD OR EQUAL. LAV-GUARD SHALL BE SECURED IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS SUCH THAT IT IS SECURE TO PIPING.
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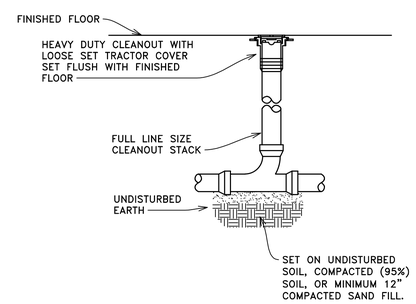

2 FLOOR CLEANOUT
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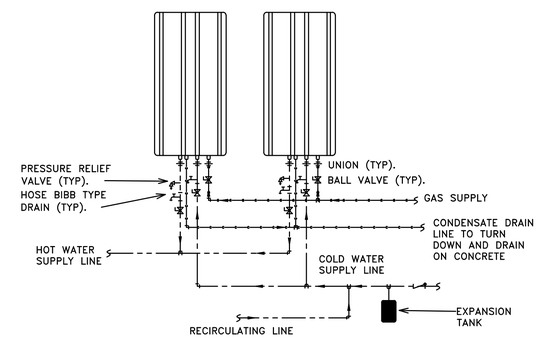

3 WATER HEATER DETAIL
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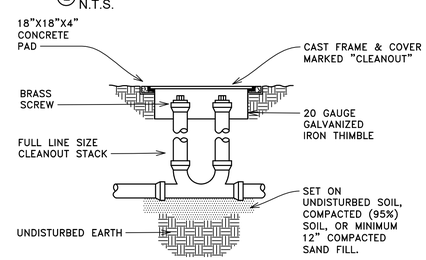

4 TWO WAY OUTSIDE CLEANOUT
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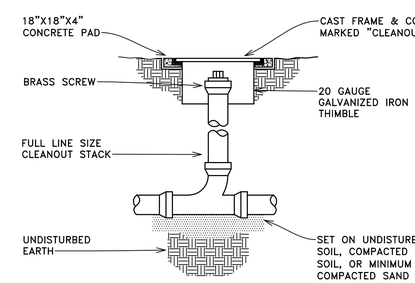

5 OUTSIDE CLEANOUT
N.T.S.

2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201,ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED.

4. AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ARCHITECT ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ARCHITECT. ANY SUBMISSION OR DISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT MAY BE CONSTRUED AS DEROGATION OF THE ARCHITECTS COPYRIGHT OR OTHER RESERVED RIGHTS.

REUSE OF THIS DRAWING IN ANY MANNER IS STRICTLY PROHIBITED WITHOUT THE WRITTEN APPROVAL OF RITTER CONSULTING ENGINEERS LTD.

REVISIONS	BY

RESTAURANT AND LEASE SPACE FOR

MANISUP

4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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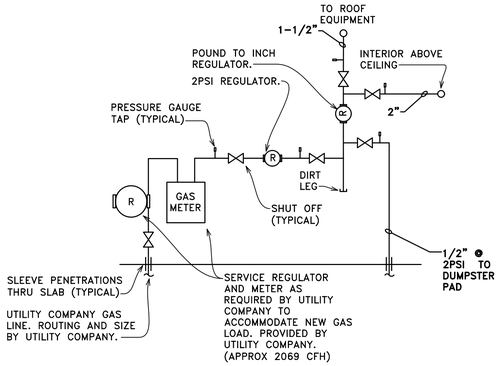
STATE OF LOUISIANA
ANDREA B. MANCEAUX
License No. 39890
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
5-20-26

DRAWN	FJM/ABM
CHECKED	ABM
DATE	5-20-26
PROJECT NO.	1161-25

M2.2



1 GAS METER DETAIL
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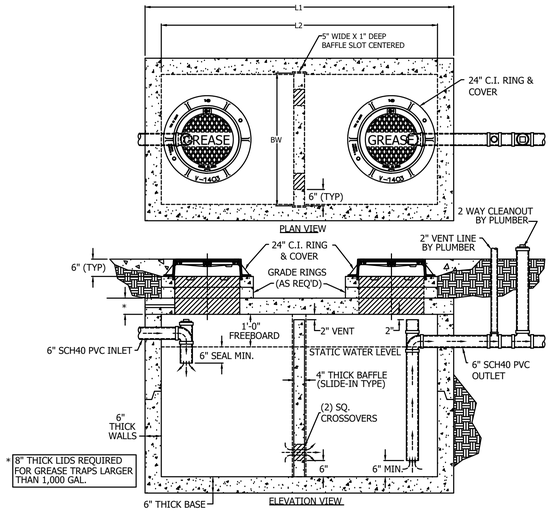
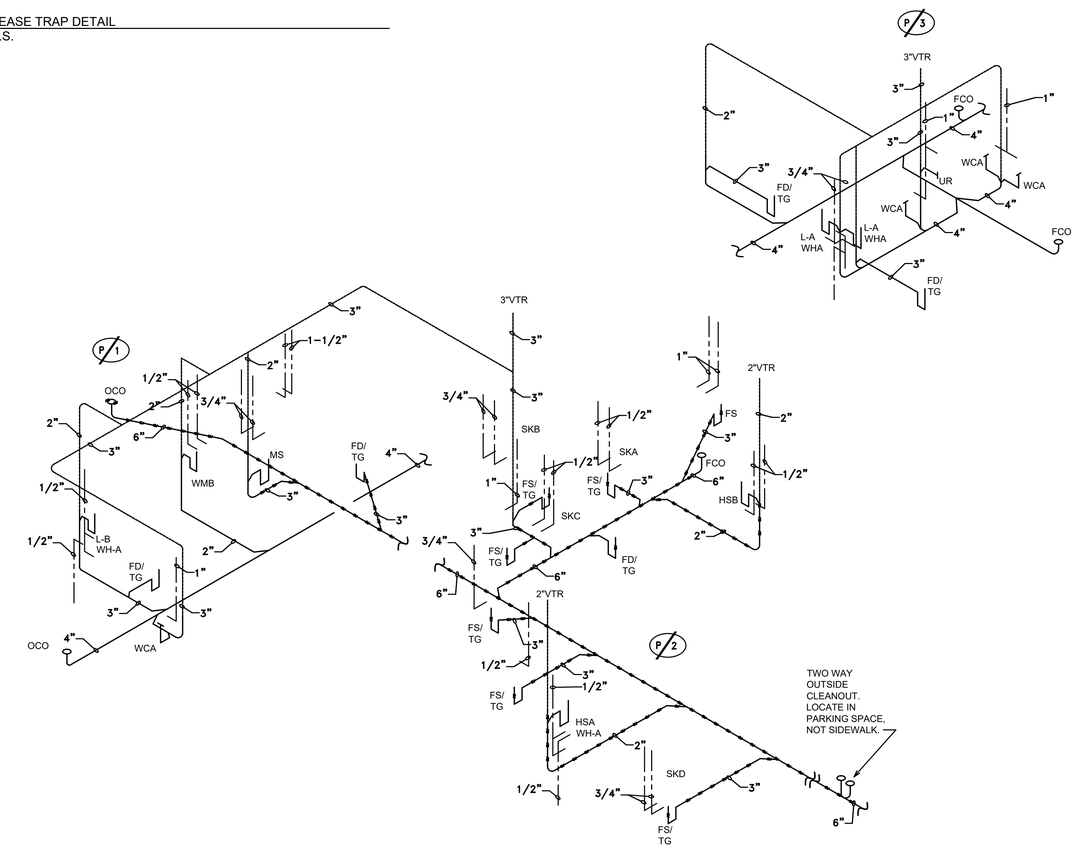


SPECIFICATIONS:

1. CONCRETE: CLASS I/II CONCRETE W/ DESIGN STRENGTH OF 5,000 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR, FIRST STAGE OF WALL W/ SECTIONAL RISER TO REQUIRED DEPTH. (BAFFLE IS SLIDE-IN TYPE)
2. REINFORCEMENT: GRADE 60 REINFORCED W/ STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.
3. C.I. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GRAY CAST IRON CONFORMING TO ASTM A48 CLASS 30. MANHOLE SHALL BE NOMINAL 24" DIAMETER AND BE TRAFFIC DUTY.

2 GREASE TRAP DETAIL
N.T.S.



3 PLUMBING RISERS
N.T.S.

2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION: ARTICLE 1 AIA DOCUMENT A201, ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED.

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REVISIONS	BY

RESTAURANT AND LEASE SPACE FOR

MANISUP

4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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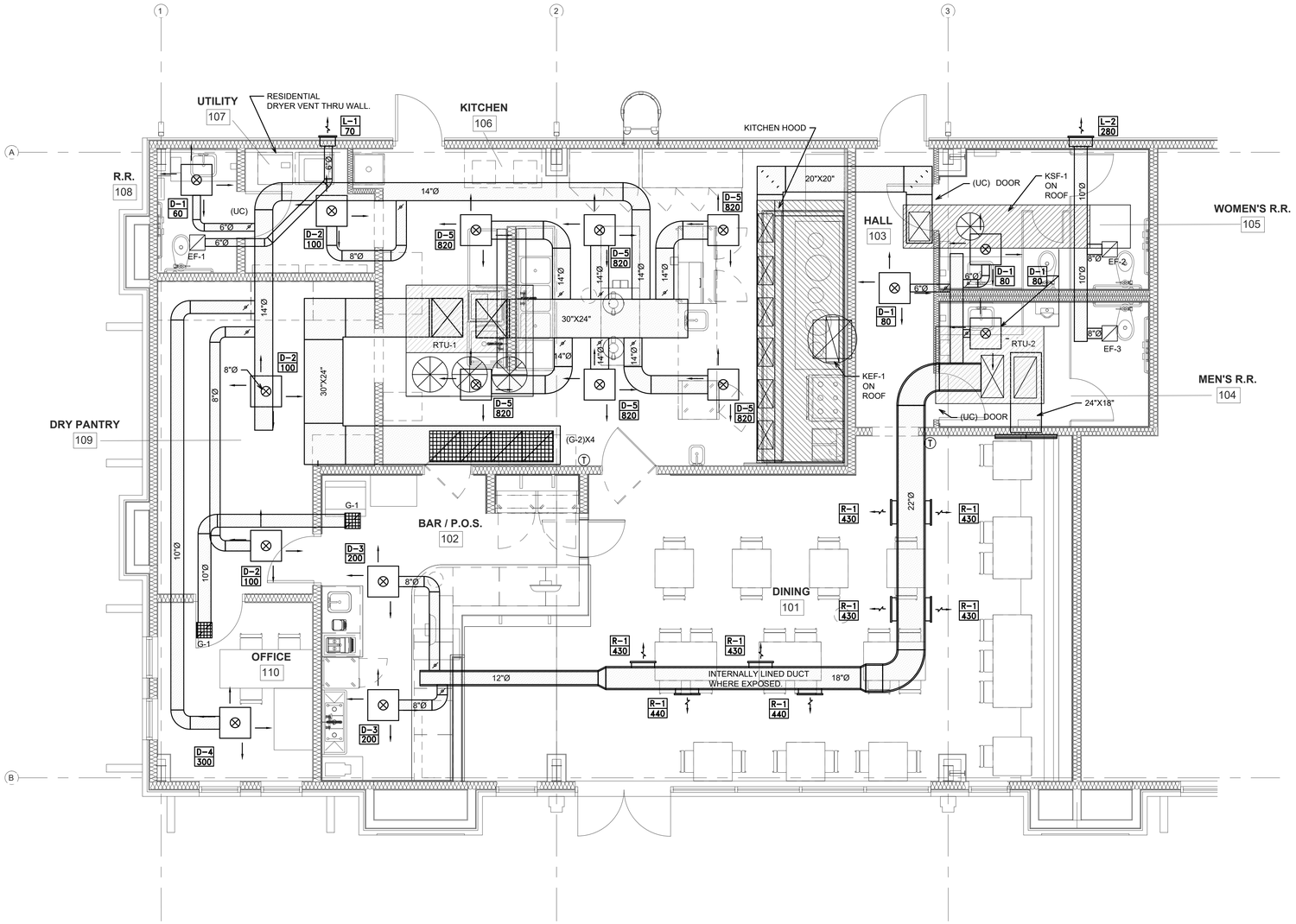
bryan@bhaarch.com thomas@bhaarch.com

STATE OF LOUISIANA
ANDREA B. MANCEAUX
License No. 39890
PROFESSIONAL ENGINEER IN MECHANICAL ENGINEERING
5-20-26

DRAWN	FJM/ABM
CHECKED	ABM
DATE	5-20-26
PROJECT NO.	1161-25

M2.3

5 OF 12 SHEETS



1 HVAC FLOOR PLAN
1/4" = 1'-0"

0 .5' 1' 2' 4' 8'
GRAPHIC SCALE: 1/4"=1'-0"

HVAC GENERAL NOTES:

THE FOLLOWING IS A BRIEF DESCRIPTION OF WORK SPECIFIC TO CERTAIN ASPECTS OF THIS PROJECT. THIS IS NOT INTENDED TO BE A COMPREHENSIVE SUMMARY OF WORK. PROSPECTIVE BIDDERS/CONTRACTORS SHALL REVIEW ALL CONSTRUCTION DRAWINGS, SPECIFICATIONS AND SITE CONDITIONS AND MAKE ALLOWANCES FOR ALL WORK INCLUDED HEREIN AND ANY ADDITIONAL WORK REQUIRED TO COMPLETE THIS PROJECT. MEANS AND METHODS FOR THE PROPER INSTALLATION OF THIS WORK IS STRICTLY THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS SUB–CONTRACTORS.

1. HVAC CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ROUTING OF ALL DUCTWORK WITH THE STRUCTURE AND OTHER TRADES AS CONDITIONS ALLOW. RE–ROUTE DUCTWORK AS NECESSARY TO AVOID CONFLICT. TRANSITION UP/DOWN TO AVOID OTHER TRADES AS NECESSARY.
2. INSTALL AT EACH DUCT TAKEOFF AN ADJUSTABLE VOLUME DAMPER IN AN ACCESSIBLE LOCATION.
3. PROVIDE METAL STRAP HANGERS FOR ALL DUCTWORK AT MINIMUM 8 FT. INTERVALS.
4. CONTRACTOR SHALL COORDINATE SPACE REQUIREMENTS AND SERVICE CLEARANCES FOR ALL EQUIPMENT PRIOR TO SUBMITTING SHOP DRAWINGS. NO EQUIPMENT SHALL BE BID ON (WHETHER OR NOT RECEIVING PRIOR APPROVAL) IF IT DOES NOT FIT IN SPACE PROVIDED.
5. HVAC CONTRACTOR SHALL PROCURE THE SERVICES OF AN INDEPENDENT AABC, TABB OR NEBB CERTIFIED TEST AND BALANCE AGENCY. TAB AGENCY SHALL PERFORM AN INITIAL SMOKE/PRESSURE LEAK TEST ON ALL DUCTWORK ONCE ALL SHEETMETAL DUCTWORK HAS BEEN INSTALLED. A FINAL BALANCE REPORT OF ALL HVAC SYSTEMS SHALL BE PROVIDED TO ARCHITECT/ENGINEER UPON COMPLETION OF PROJECT. ALL REPORTS SHALL MEET AABC/NEBB STANDARDS. REFER TO SPECIFICATIONS FOR COMPLETE TEST AND BALANCE REQUIREMENTS.
6. WHERE DUCTS ARE CROSSING EACH OTHER, CONTRACTOR SHALL ASSUME AN UPWARD AND DOWNWARD TRANSITION AS REQUIRED BETWEEN STRUCTURAL MEMBERS AS REQUIRED FOR AVAILABLE CEILING SPACE. NO EXTRA WILL BE GIVEN FOR THESE TRANSITIONS.
7. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL DEVICES (THERMOSTATS, SENSORS, ETC.) WITH THE ARCHITECT AND OWNER PRIOR TO INSTALLATION. MOUNT EACH THERMOSTAT AT A HEIGHT OF 48" AFF TO CENTER LINE OF CONTROLLER. PROVIDE LOCK BOXES WHERE REQUIRED BY OWNER. THERMOSTATS SHALL BE PROGRAMMABLE AND SHALL HAVE TEMPERATURE AND HUMIDITY SETPOINT ADJUSTMENT. CONTROLS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL 24V AND 120V CONTROL POWER INCLUDING CONTROL PANELS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR LOCATION OF NEAREST AVAILABLE CIRCUIT FROM WHICH TO TAP CONTROL POWER.
8. ALL EQUIPMENT, DAMPERS, ETC, LOCATED ABOVE CEILING SHALL BE INSTALLED AT A HEIGHT ACCESSIBLE FOR BALANCING AND/OR SERVICE.
9. COORDINATE THE EXACT PLACEMENT OF ALL CEILING MOUNTED DIFFUSERS AND GRILLES WITH THE CEILING, LIGHTS AND ANY OTHER CEILING MOUNTED EQUIPMENT.
10. TRANSITION SUPPLY AND RETURN DUCTWORK TO FANS AND AIR HANDLING UNITS WITH SMOOTH TRANSITIONS PER SMACNA STANDARDS AS NECESSARY. DUCTWORK CONNECTIONS TO EQUIPMENT SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
11. COORDINATE FRESH AIR INLETS WITH EXHAUST OUTLETS AND PLUMBING VENTS TO MAINTAIN A 10'–0" MINIMUM SEPARATION.
12. ALL EXPOSED PIPING, DUCTS, HANGERS, SUPPORTS, ETC RUN THROUGH FINISHED SPACES OR EXPOSED AT EXTERIOR SHALL BE PRIMED AND PAINTED COLOR AS SELECTED BY ARCHITECT.
13. FURNISH AND INSTALL ACCESS PANELS WHERE VALVES, DAMPERS, EQUIPMENT, ETC ARE CONCEALED OR INACCESSIBLE. ACCESS PANELS SHALL BE STAINLESS STEEL.
14. PROVIDE ONE SET OF CLEAN FILTERS AT COMPLETION OF PROJECT PRIOR TO TURNING OVER TO OWNER. CONSTRUCTION FILTERS SHALL BE USED DURING DURATION OF PROJECT TO PROTECT DUCTWORK AND EQUIPMENT. DO NOT OPERATE EQUIPMENT UNLESS BUILDING HAS BEEN THOROUGHLY CLEANED.
15. ALL DUCTWORK DIMENSIONS ARE METAL TO METAL, UNLESS OTHERWISE NOTED.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING SUBMITTAL PACKAGE (INCLUDING CHECK) FOR KITCHEN HOOD SUBMITTAL TO THE STATE FIRE MARSHAL. SUBMIT THROUGH PROFESSIONAL OF RECORD (MECHANICAL ENGINEER).
17. ALL KITCHEN HOOD EXHAUST DUCTWORK SHALL BE 16 GAUGE BLACK IRON WITH WELDED SEAMS AND JOINTS PER NFPA 96. INSULATE EXHAUST DUCT FOR 0" CLEARANCE TO COMBUSTIBLES.
18. COMMERCIAL KITCHEN HOOD SHALL BE ALL STAINLESS STEEL CONSTRUCTION COMPLETE WITH CONTROLS, FAN PACKAGE AND SUPPRESSION SYSTEM. EXHAUST HOOD DUCTWORK SHALL BE 16 GAUGE BLACK IRON WITH WELDED SEAMS AND JOINTS, INSULATED FOR 0" CLEARANCE TO COMBUSTIBLES. ROOFTOP FANS SHALL BE RATED FOR USE WITH HOOD SYSTEMS.
19. COORDINATE ALL ROOF PENETRATIONS WITH ROOFING CONTRACTOR FOR A WATER TIGHT INSTALLATION.
20. ALL PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE FIRE CAULKED TO MAINTAIN UL LISTING. DUCTS PENETRATING RATED ASSEMBLIES SHALL BE FURNISHED WITH FIRE DAMPERS.

NOTE:
THE CONTRACTOR MAY SCALE THESE DRAWINGS.
HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS, PLAN SCALE, AND SITE CONDITIONS BEFORE BIDDING AND DURING CONSTRUCTION.

2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201, ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED.

4. AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ARCHITECT ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT. CHANGES TO THE DRAWINGS, MAY ONLY BE MADE BY THE ARCHITECT. ANY SUBMISSION OR DISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT MAY BE CONSTRUED AS DEROGATION OF THE ARCHITECT'S COPYRIGHT OR OTHER RESERVED RIGHTS.

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NORTH

REVISIONS	BY

RESTAURANT AND LEASE SPACE FOR
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STATE OF LOUISIANA
ANDREA B. MANCEAUX
License No. 39890
PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
5-20-26

DRAWN	FJM/ABM
CHECKED	ABM
DATE	5-20-26
PROJECT NO.	1161-25

M3.0

6 OF 12 SHEETS

ROOFTOP PACKAGED UNIT SCHEDULE

FAN							COOLING					GAS HEATING						UNIT			MODEL
MARK	SERVICE	MIN. CFM	CFM OUTSIDE AIR	NOMINAL TONNAGE	EXT. SP	FAN HP	MIN. BTUH OUTPUT TOTAL	MIN. BTUH OUTPUT SENSIBLE	COIL TEMPS. ENT COIL DB/WB (°F)	COIL TEMPS. LEAVING COIL DB/WB(°F)	AMB. TEMP (°F)	ENT AIR (°F)	LEAVING AIR (°F)	BTUH INPUT	BTUH OUTPUT	MIN TEMP RISE(°F)	NO STAGES	MCA	MOCP	ELECTRICAL	
RTU-1	KITCHEN	5600	1000	16	0.6	7.5	194,100	140,700	78.6/66.2	54.7/54.7	95	62.7	90	200,000	162,000	27	4:1	101.7	150	208-3-60	GREENHECK RV-40-15J-G-G2 OR EQUAL
RTU-2	DINING	3000	330	7.5	0.6	3	86,000	---	72.8/64.8	55 / 55	95	75	90	150,000	104,000	20	2	43	50	208-3-60	TRANE PRECEDENT OR EQUAL

NOTES:
1. CONTRACTOR SHALL PROVIDE AND INSTALL WITH MERV 8 FILTERS FOR USE DURING CONSTRUCTION AND MERV 13 AT SUBSTANTIAL COMPLETION AS SPECIFIED.
2. ALL UNITS SHALL BE FURNISHED WITH GPS OR PLASMA AIR BIPOLAR NEEDLEPOINT IONIZATION KITS, SIZED TO ACCOMMODATE AIRFLOW AND COIL CONFIGURATION, 120-1-60 ELECTRICAL SERVICE. INTERLOCK IONIZATION UNIT WITH UNIT BLOWER OPERATION. GPS UNIT SHALL BE MOUNTED AT THE FACE OF THE COIL, DOWNSTREAM OF THE FILTER.
3. FURNISH WITH MODULATING HOT GAS REHEAT.
4. FURNISH WITH DUCT SMOKE DETECTOR IN SUPPLY AND RETURN. INTERLOCK WITH BUILDING FIRE ALARM.
5. FURNISH WITH UNIT POWERED CONVENIENCE OUTLET AND TWO POSITION MOTORIZED FRESH AIR DAMPER.
6. CONDENSATE TO DISCHARGE TO GUTTER/DOWNSPOUT. SUPPORT FROM ROOF WITH MIRO OR EQUAL PIPE SUPPORTS.
7. ALL 3 PHASE EQUIPMENT SHALL BE FURNISHED WITH PHASE MONITORS.
8. ALL EQUIPMENT SHALL HAVE MINIMUM FULL 1 YEAR PARTS AND LABOR WARRANTY AND 5 YEAR COMPRESSOR WARRANTY.

FAN SCHEDULE

NO.	SERVICE	MIN. CFM	EXT. S.P.	MAX RPM	FAN HP	TYPE	DRIVE	ELECTRICAL SERVICE	REMARKS
EF-1	RESTROOM	70	0.2	900	1 / 6	CENT	DIRECT	120-1-60	GREENHECK SP, COOK, ACME, TWIN CITY OR EQUAL
EF-2	RESTROOM	140	0.2	900	1 / 4	CENT	DIRECT	120-1-60	GREENHECK SP, COOK, ACME, TWIN CITY OR EQUAL
EF-3	RESTROOM	140	0.2	900	1 / 4	CENT	DIRECT	120-1-60	GREENHECK SP, COOK, ACME, TWIN CITY OR EQUAL
KEF-1	KITCHEN HOOD EXHAUST	3676	0.9	1226	2	CENT	DIRECT	208-3-60	ACCUREX XCUE-180-VG OR EQUAL
KSF-1	HOOD SUPPLY	2940	0.7	1670	2	CENT	VFD	208-3-60	ACCUREX XDGX-P116-H12-MF-8 TEMPERED MAKEUP AIR UNIT WITH COOLING COIL MODULE OR EQUAL
	NATURAL GAS HEATING: 214 MBH INPUT/197 MBH OUTPUT, COOLING: 104.1 MBH TOTAL, 65.7 MBH SENSIBLE, LEAVING DB 72.2dF, LEAVING WET BULB 72.2dF, MCA 47.5A, MOCP 70A								

NOTES:
1. HOOD SUPPLY KSF AND CORRESPONDING EXHAUST FANS KEF SHALL BE INTERLOCKED FOR SIMULTANEOUS OPERATION.
2. DIRECT DRIVE FANS SHALL BE FURNISHED WITH ECM MOTORS, SPEED CONTROL SWITCH, MOUNTED AT THE FAN FOR BALANCING.
3. EF-1 THRU EF-3 FURNISH AND INSTALL OCCUPANCY SENSOR ON WALL TO OPERATE FAN. IF LIGHTS ARE ON OCCUPANCY SENSOR, SAME SENSOR CAN BE USED FOR BOTH. COORDINATE WITH ELECTRICAL.
4. ALL ROOF MOUNTED EQUIPMENT SHALL BE FURNISHED WITH FACTORY CURBS.

1 HVAC SCHEDULES
N.T.S.

CEILING DIFFUSER SCHEDULE

MARK	DIFFUSER SIZE	DUCT SIZE	CFM RANGE	CONSTRUCTION MATERIAL	FINISH	REMARKS
D-1	24"X24"	6"ø	0-95	ALUMINUM	WHITE	TITUS TDC, PRICE, NAILOR OR EQUAL
D-2	24"X24"	8"ø	100-195	ALUMINUM	WHITE	TITUS TDC, PRICE, NAILOR OR EQUAL
D-3	24"X24"	10"ø	200-295	ALUMINUM	WHITE	TITUS TDC, PRICE, NAILOR OR EQUAL
D-4	24"X24"	12"ø	300-400	ALUMINUM	WHITE	TITUS TDC, PRICE, NAILOR OR EQUAL
D-5	24"X24"	18"X18"	800-900	ALUMINUM	WHITE	TITUS TDC, PRICE, NAILOR OR EQUAL (3WAY)

NOTES:
1. FURNISH AND INSTALL ALL DIFFUSERS WITH OPPOSED BLADE DAMPERS.
2. BACK SIDE OF DIFFUSER SHALL BE INSULATED SAME AS DUCTWORK.
3. ALL DIFFUSERS ON PLANS SHALL BE FOUR WAY DIFFUSERS EXCEPT WHERE OTHERWISE NOTED.

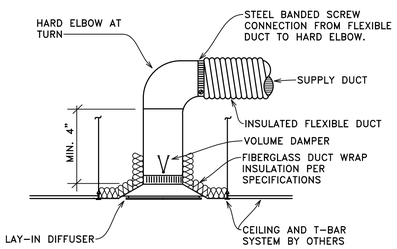
GRILLE & LOUVER SCHEDULE

SYMBOL	SIZE	SERVICE	LOCATION	CONSTRUCTION MATERIAL	FINISH	REMARKS
G-1	12"X12"	RETURN	CEILING	ALUMINUM	WHITE	TITUS 50F, PRICE, NAILOR OR EQUAL
G-2	24"X24"	RETURN	CEILING	ALUMINUM	WHITE	TITUS 50F, PRICE, NAILOR OR EQUAL
R-1	18"X10"	SUPPLY	DUCT	ALUMINUM	PAINT	TITUS 300FL, PRICE, NAILOR OR EQUAL
L-1	12"X12"	EXHAUST	EXT WALL	ALUMINUM	KYNAR	RUSKIN HZ700, GREENHECK EHV301 (AMCA 540/550 LISTED) OR EQUAL
L-2	18"X12"	EXHAUST	EXT WALL	ALUMINUM	KYNAR	RUSKIN HZ700, GREENHECK EHV301 (AMCA 540/550 LISTED) OR EQUAL

NOTES:
1. TRANSITION DUCTWORK TO FULL FACE OF GRILLE/LOUVER.
2. KYNAR FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURERS STANDARD AND CUSTOM COLOR CHARTS.
3. SUPPLY REGISTERS SHALL HAVE OPPOSED BLADE DAMPER.

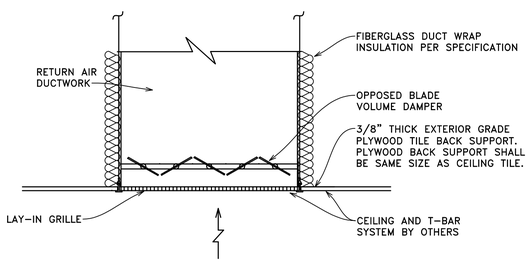
VENTILATION REQUIREMENTS

ROOM TYPE	AREA (SF)	MAXIMUM OCCUPANTS	REQUIRED OUTDOOR AIR (CFM/PERSON)	REQUIRED OUTDOOR AIR (CFM/SF)	OSA PER ASHRAE 62.1 (CFM)	EXHAUST (CFM)
OFFICE	115	1	5	0.06	12	
CORRIDOR	90	0	0	0.06	6	
RESTROOM	267	0	0	0.00	0	210
KITCHEN	885	18	7.5	0.12	240	620
DINING	690	50	7.5	0.18	500	
STORAGE	312	0	0	0.12	38	
				TOTAL REQUIRED	796	830
				TOTAL PROVIDED	1330	



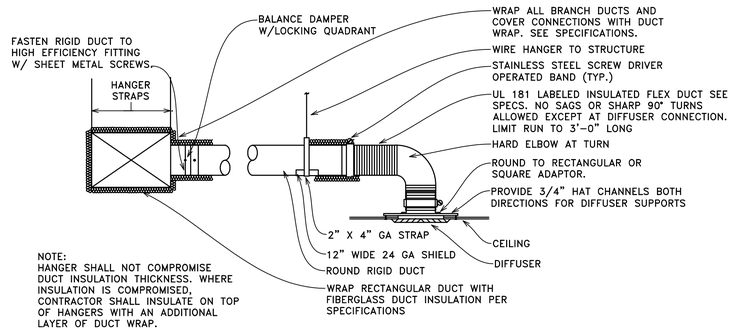
NOTE:
ALL OUTLETS SHALL BE MOUNTED TIGHT TO THE CEILING AND SHALL BE FURNISHED WITH A SUITABLE FRAME FOR THE TYPE OF CEILING USED.

2 CEILING DIFFUSER DETAIL
N.T.S.



NOTE:
ALL GRILLES SHALL BE MOUNTED TIGHT TO THE CEILING AND SHALL BE FURNISHED WITH A SUITABLE FRAME FOR THE TYPE OF CEILING USED.

3 CEILING GRILLE DETAIL
N.T.S.



NOTE:
HANGER SHALL NOT COMPROMISE DUCT INSULATION THICKNESS. WHERE INSULATION IS COMPROMISED, CONTRACTOR SHALL INSULATE ON TOP OF HANGERS WITH AN ADDITIONAL LAYER OF DUCT WRAP.

NOTES:
1. IN AREAS WHERE FIRE DAMPERS ARE REQUIRED, PROVIDE DEEP ROUND TO RECTANGULAR OR SQUARE ADAPTER AND BUILD GYPSUM BOARD ENCLOSURE.
2. NO POP RIVETS ALLOWED.
3. PROVIDE SUPPORT ON ALL BRANCH DUCT RUNOUTS. MINIMUM OF TWO SUPPORTS ON BRANCH DUCTS OVER 6'-0" IN LENGTH.
4. DO NOT LINE DUCTWORK.

4 DIFFUSER CONNECTION DETAIL
N.T.S.

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RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201 ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

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REVISIONS BY

RESTAURANT AND LEASE SPACE FOR
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4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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STATE OF LOUISIANA
ANDREA B. MANCEAUX
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PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
5-20-26

DRAWN	FJM/ABM
CHECKED	ABM
DATE	5-20-26
PROJECT NO.	1161-25

M3.1

MARK INFORMATION		FAN INFORMATION									SOUND INFORMATION					MOTOR INFORMATION							
MARK	QTY	MODEL	DRIVE TYPE	VOLUME (CFM)	EXTERNAL SP (IN. WG)	TOTAL EXTERNAL SP (IN. WG)	FAN SPEED (RPM)	OUTLET VELOCITY (FT/MIN)	FEI	TOTAL WEIGHT (LB)	INLET dBA	INLET SONES	INLET SONES (SPHERICAL)	OUTLET dBA	OUTLET SONES	OPERATING POWER (HP)	MOTOR SIZE (HP)	FEP INPUT POWER (KW)	ENCLOSURE	VOLTAGE	CYCLE	PHASE	EC MOTOR
KEF-1	1	XCUE-180-VG	Direct	3,676	0.872	0.872	1,226	1,258.9	1.25	164.5	68.06	16.7	0	0	0	1.11	2	1	TF	208	60	3	VariGreen

KEF-1 : SELECTED OPTIONS AND ACCESSORIES

One piece fully welded windband
Tapered bushing wheel hub
Breather tube outlet area min. 4.4 sq. in. (sizes 99-480), 2.0 sq. in. (sizes 60-95)
Min. windband material thickness: 0.051" aluminum (060-240), 0.064" aluminum (240HP, 240XP), 0.080" aluminum (sizes 300-480)
Curb Cap Size - 30 Square
UL/cUL 705 Listed - Supplement SC - "Power Ventilators for Restaurant Exh. Appliances" (Formerly UL 762)
Switch, NEMA-3R, Toggle,
Curb Extension-Galv., VCE-30-G11, Shipped Loose From Factory
Hinge, Factory Installed
High Temp Curb Seal Rated for Continuous Duty at 1500 F (Factory Attached)
Grease Trap (PN 475538)
Aluminum Wheel Material

HOOD INFORMATION

HOOD NO.	MARK	MODEL	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	COOKING LOAD / DUTY RATING	EXHAUST						SUPPLY		HANGING WEIGHT LBS.	SECTION LOCATION
			LENGTH	WIDTH	HEIGHT			TOTAL CFM	COLLAR(S)					MUA CFM	AC CFM		
									WIDTH	LENGTH	DIA.	CFM	S.P.				
1	H-1	XBEW-191-S	191	54	24	430 SS WHERE EXPOSED	HEAVY	3676	10	35		3676	0.412	2940		798	SINGLE

HOOD INFORMATION

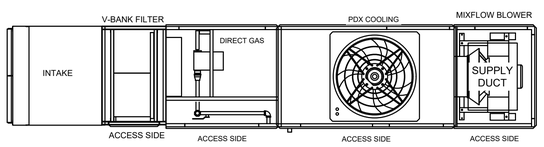
HOOD NO.	MARK	LIGHTING DETAILS			GREASE FILTRATION DETAILS				UTILITY CABINET(S)						
		FIXTURE TYPE BULB / LAMP INFO	QTY	FOOT CANDLES	TYPE / MODEL MATERIAL	QTY	SIZE (IN.)		LOCATION	FIRE SYSTEM		CONTROLS			
							L	H		TYPE	SIZE	MODEL	INTERFACE		
1	H-1	INCANDESCENT (GLOBE) 100W A19 (BULBS NOT INCL.)	9	54.79	BAFFLE STAINLESS STEEL	2	16	20	LEFT	AMEREX KP	7.5	XKC	MB TOUCHSCREEN		
						8	20								

SUPPLY PLENUM INFORMATION

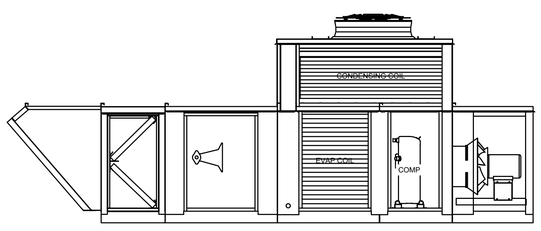
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	LED LIGHT(S)		TOTAL CFM	TOTAL S.P.	COLLARS							
				L	W	H			SUPPLIED	QTY			TYPE	MOUNTING	QTY	W	L	DIA.	CFM	VEL.
1	H-1	FRONT	ASP	102	14	4	YES	YES	NO		1470	0.01	MUA	FACTORY	3	12	22		490	267
1	H-1	FRONT	ASP	102	14	4	YES	YES	NO		1470	0.01	MUA	FACTORY	3	12	22		490	267

HOOD OPTIONS

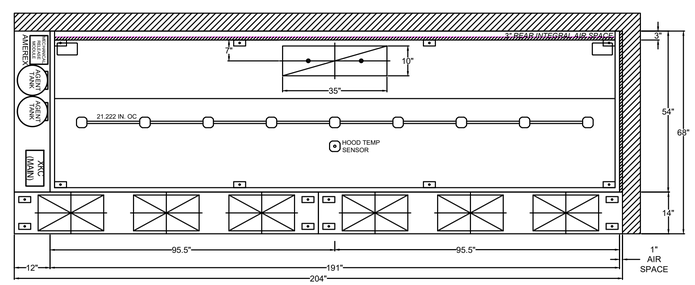
UL 710 LISTED W/ OUT EXHAUST FIRE DAMPER - UL #R25625
BACK INTEGRAL AIR SPACE - 3 IN WIDE - ZERO CLEARANCE
RIGHT NON-INTEGRAL AIR SPACE - 1 IN THICK - ZERO CLEARANCE
18 IN HIGH CEILING ENCLOSURES - FRONT LEFT - FIELD INSTALLED
FACTORY MOUNTED EXHAUST COLLAR(S)
BACKSPLASH 80.00 IN HIGH 204.00 IN LONG
RIGHT SIDESPLASH 80.00 IN HIGH 54.00 IN LONG
PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY
STANDING SEAM CONSTRUCTION FOR SUPERIOR STRENGTH



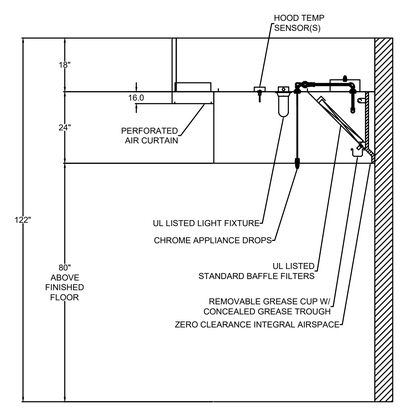
HOOD MAKE UP AIR UNIT - PLAN VIEW



HOOD MAKE UP AIR UNIT - ELEVATION VIEW



HOOD PLAN VIEW



HOOD SECTION VIEW

1 HOOD DETAILS
N.T.S.

EQUIPMENT SCHEDULE

Tempered Make-Up Air Unit — **Mark: KSF-1**

Qty	Accurex Model	Volume	External SP	Total SP	MCA	MOP	Weight	SCCR
1	XDGX-P116-H12-MF-8	2,940 CFM	0.68 in. wg	1.825	47.5	70	1,553 lb	NA

Motor Information

Size	V/C/P	Enclosure	Motor with Shaft Gounding	Motor RPM	Operating Power
2 hp	208/60/3	OP	No	1725	1.67 hp

Heating

Type	Gas Type	Temperature			Energy			Connection Gas (IN)	Building Gas Pressure	Control Access	Gas Pressure	
		Winter DB	Max Δ	Max LAT	Input	Output	Efficiency				Min	Max
Direct Gas	Natural	28 F	62.0 F	90.0 F	214.0 MBH	196.9 MBH	92%	3/4"	1/2 PSI	No	8 in. wg	0.5 PSI

Cooling

Cooling Type	Coil Model	Rows Deep	Fins Per Inch	Face Velocity	Total Energy	Sensible Energy	Entering Air (F)		Leaving Air (F)	
							Dry	Wet	Dry	Wet
Packaged DX	DX38S02Q10-32x35-RH	2	10	NA	104.1 MBH	65.7 MBH	94 F	81 F	72.2 F	72.2 F

Coil SP	Refrigerant	Suction Temp	Liquid Temp	Super Heat	Code 18/19	Suction Conn Qty / Size	Liquid Conn Qty / Size
NA	R-454b	52 F	110 F	8 F	NA	NA	NA

Outlet Sound Power By Octave Band								LwA	dBA	Sones
62.5	125	250	500	1000	2000	4000	8000			
77.6	*75.0*	*75.9*	*72.7*	*71.0*	*75.9*	*82.5*	*71.2*	*80.4*	*69.4*	*18.3*

- *LwA - A weighted sound power level based on ANSI S1.4*
- *dBA - A weighted sound pressure level base on 11.1 dB attenuation per octabe band at 5.0 ft.*
- *Noise Criteria (NC) based on an average attenuation of 11.5 dB per octabe band at 5.0 ft.*

OPTIONS AND ACCESSORIES

Make Up Air
Hot Gas Bypass
Air Flow Arrangement: Outdoor Air Only
Weatherhood: Aluminum Mesh, 16x20x2 - (4)
Filter Section: Aluminum, 16x20x2 - (4)
Damper: Inlet
Outdoor Air Intake Position: End
Return Air Intake Position: None
Discharge Position: Bottom
Coating: Galvanized
Cooling Coil Coating - None
Insulation: Double Wall - Tempering On
Supply Fan Control: VFD
VFD Control: Constant Volume
Hinged Access
Access Side: Right-Hand
Unit Weight: 1,553 lb
Control Center
Freeze Protection
Heat Inlet Air Sensor
Cool Inlet Air Sensor

[redacted]
2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201, ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED.

4. AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ARCHITECT ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ARCHITECT. ANY SUBMISSION OR DISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT MAY BE CONSTRUED AS DEROGATION OF THE ARCHITECT'S COPYRIGHT OR OTHER RESERVED RIGHTS.

REUSE OF THIS DRAWING IN ANY MANNER IS STRICTLY PROHIBITED WITHOUT THE WRITTEN APPROVAL OF RITTER CONSULTING ENGINEERS LTD.

REVISIONS	BY

RESTAURANT AND LEASE SPACE FOR

MANISUP

4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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STATE OF LOUISIANA
ANDREA B. MANCEAUX
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PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
5-20-26

DRAWN	FJM/ABM
CHECKED	ABM
DATE	5-20-26
PROJECT NO.	1161-25

M3.2

8 OF 12 SHEETS

GENERAL PROVISIONS

I. GENERAL

A. GENERAL SCOPE Contractor shall refer to plans as well as specifications for full scope of work.

B. GENERAL CONDITIONS

The General Conditions of the Architectural Specifications along with supplementary conditions, special conditions, information to bidders, and any other pertinent information and documents shall apply the same as if repeated herein. The contractor shall review Division 1. Where the requirements of Division 1 and these specs conflict for the contractor, the most stringent shall be applied. Wherever the word contractor is mentioned in these specifications, it is intended to mean the HVAC Contractor/ Plumbing Contractor as appropriate. These are sub-contractors to the General Contractor who has the contract with the owner. It is the General contractor who bears the responsibility to fulfill this part of the project under the contract with the owner. The General Contractor shall be responsible for all costs associated with any and all bidding errors and omissions of the sub-contractor.

C. SCOPE OF WORK

1. Furnish labor, materials and equipment necessary to provide and install the complete HVAC/plumbing portion of this contract, as called for herein and on accompanying drawings. Parts of the HVAC/plumbing division may be bid separately or in combination at the contractor's option; however, it shall be the responsibility of the General Contractor to assure himself that all items have been included if he chooses to accept separate bids. Contractor shall refer to the HVAC, , Architectural, Structural, Plumbing and Electrical drawings and install all equipment, piping, etc., to meet building and space requirements. No equipment shall be bid on or submitted for approval if it will not fit in space provided or coordinated with other trades involved on the project. It is the intention of these Specifications that all HVAC/plumbing systems shall be furnished complete with all necessary valves, controls, insulation, piping, devices, equipment, etc., necessary to provide a satisfactory installation in working order and in accordance with all Federal, State and Local codes and ordinances. Contractor shall visit the site and acquaint himself thoroughly with all existing facilities and conditions which would affect his portion of the work. Failure to do so shall not relieve the contractor from the responsibility of installing his work to meet conditions. Lack of coordination shall not be acceptable and shall not be a reason for poorly installed work or additional cost to this trade or others on the project. All associated extra cost shall be borne by the contractor. The General Contractor shall be responsible for all costs, time and liquidated damages associated with lack of coordination or poor coordination.

D. LOCAL CONDITIONS

1. Location and elevation of all services is based on information obtained from others. However, this shall serve as a general guide only and the contractor shall visit the site and verify the location and elevation of this service to his own satisfaction in order to determine the amount of work required for the execution of the contract. Contractor shall contact the various utility companies, determine the extent of their requirements and cooperate with the utility company in reaching a finished product. Contractor shall pay charges by Utility Company for extensions, connections meter fees, street patching, etc. In case major changes are required, this fact, together with the reasons therefore, shall be submitted to the Architect, in writing, not less than seven days before the date of bidding. Failure to comply with this requirement will make the contractor liable for any changes, additions and expenses necessary for the successful completion of the project.

E. CUTTING AND PATCHING

1. Initial cutting and patching shall be the responsibility of the General Contractor with the HVAC/Plumbing Contractor responsible for laying out and marking any and all holes required for the reception of his work. No structural beams or joists shall be cut or thimbled without first receiving the approval of the Architect/Engineer. After initial surfacing has been done, any further cutting, patching and painting shall be done at this contractor's expense. Cutting and patching shall be done in such a manner that the surrounding work will be restored to its original condition. The plumbing/HVAC piping shall be run at proper slopes as to avoid conflict with other trades. It may be necessary to penetrate beams, grade beams, footings and foundations. Install thimbles as required and as approved by the Structural Engineer and Architect.

F. CODES AND STANDARDS

1. The entire work shall comply with the rules and regulations of the City, Parish and State in which this project is being constructed including the State Fire Marshal and State Board of Health. All modifications required by these authorities shall be made without additional charge to the Owners. The Contractor shall report these changes to the Architect and secure his approval before work is started.

2. Materials, equipment and accessories installed under this contract shall conform to all rules, codes, etc., as recommended by National Associations governing the manufacturer, rating and testing of such materials, equipment and accessories. Materials shall be new and of the best quality and first class in every respect. Whenever directed by the Architect, contractor shall submit a sample for approval before proceeding. Where laws or local regulations provide that certain accessories such as gauges, thermometers, relief valves and parts be installed on equipment, it shall be understood that such equipment be furnished complete with the necessary accessories whether or not called for in these Specifications. Material and equipment furnished or installed as part of these construction documents shall be installed and operated in strict accordance with the respective manufacturer's guidelines for installation and operating instructions. The manufacturer's guidelines shall become part of the construction documents.

G. MINOR DEVIATIONS

Plans and detail sketches are submitted to limit, explain and define conditions, specified requirements, pipe sizes and manner of erecting work. Structural or other conditions may require certain modifications from the manner of installation shown and such deviations are permissible and shall be made as required, but, specified sizes and requirements necessary for satisfactory operation shall remain unchanged. It may be necessary to shift ducts or pipes or to change the shape of ducts and these changes shall be made as required. All such changes shall be referred to the Architect/Engineer for approval before proceeding. Extra charges shall not be allowed for these changes. No structural beams or joists (concrete or steel) shall be cut or thimbled without first receiving the approval of the Architect/Structural Engineer. After initial surfacing has been done, any further cutting, patching and painting shall be done at the HVAC/Plumbing Contractor's own expense. Contractor shall realize that the drawings could delve into every step, sequence or operation necessary for the completion of the project without drawing on the contractor's experience or ingenuity. However, only typical details are shown on the plans. In cases where the contractor is not certain about the method of installation of his work, he shall ask for details. Lack of details shall not be an excuse for improper installation. Submit installation shop drawings with manufacturer's details for review prior to installation. In general, the drawings are diagrammatic and the contractor shall install his work in a manner so that interferences between the various trades are avoided. In cases where interferences do occur, the Architect/Engineer is to state which equipment, piping, etc., is to be relocated regardless of which item was first installed.

H. WORKMANSHIP

1. Workmanship shall be of highest grade, highest quality and all construction shall be done according to the best practice of the trade. Work shall be completed to satisfaction of the Architect/Engineer.

I. COORDINATION

1. Coordinate work of the different trades to avoid interferences. All piping, ductwork, etc., shall be installed in lines as required to accomplish this end whether or not shown on the plans. There will be a certain amount of work which must be coordinated with the Owner. This contractor shall coordinate required work with the Owner through the General Contractor using procedures acceptable to the Architect and Owner. The contractor shall maintain documentation of coordinated work.

2. This contractor shall coordinate and confirm that all equipment requiring electric service will be adequately and properly serviced by Electrical Contractor. Any conflicts shall be brought to the attention of the Architect/Engineer prior to ordering the equipment. VERIFY ALL VOLTAGES WITH THE ELECTRICAL PLANS AND ELECTRICAL CONTRACTOR.

3. This contractor shall coordinate the space clearances with the structure, ceilings, lights, etc. In some cases, due to space limitations, it may be necessary to reroute piping or re-size ductwork to meet the conditions of the project. Any rerouting or resizing required shall be part of this project and done without any additional cost to the Owner. DO NOT MAKE DUCTWORK WITHOUT COORDINATION. Avoid conflicts with other trades.

4. This contractor shall coordinate the installation with all parts of the structural foundation system and structural building systems. Provide sleeves through grade beams or concrete beams at all conflicts. All points of penetration of foundation shall be reviewed by the Architect/Engineer prior to rough-in. All sleeves shall be installed per instructions and details of the structural engineer. All piping shall be run as high as possible with sleeves through concrete beams to avoid conflicts. This means the piping shall run in or through the structure unless approved otherwise by the Architect/Engineer.

J. SHOP DRAWINGS

Drawings shall be presented in a clear and thorough manner. Details shall be identified by reference to sheet detail, schedule or room numbers shown on contract and drawings. The Architect's/Engineer's review of shop drawings shall not relieve the contractor from the responsibility of incorrectly figured dimensions or any other errors that may be contained in these drawings. The omission from the shop drawings or specifications, even though approved by the Architect, shall not relieve the contractor from furnishing and erecting same. Any delays caused by contractor not submitting shop drawings within a timely manner shall be the problem of the responsible subcontractor and the General Contractor.

K. UTILITIES

1. Connect all utilities at the points indicated on the drawings and extend such utilities to the building and to equipment or facilities requiring same. Contractor shall pay all service and connection charges required by utilities companies and/or site conditions (offset, conflict boxes, etc.). Contractor shall include all costs required by utility companies to extend utilities to the site. It is the responsibility of the contractor to obtain these fees from the utility companies and include those costs in the bid.

L. REPAIRING ROADWAYS AND WALKS

1. Where this contractor cuts or breaks roadways or walks to lay the piping, he shall repair or replace these sections to meet the Architect's approval. Repair of public roadways and highways shall be done as per the Federal, State, or Local agencies having jurisdiction. Contractor shall obtain and pay for all permits.

M. EXCAVATION AND BACK FILL

Trench and excavation work shall include excavating, preparing of trenches, and backfilling as specified. Contractor shall install caution tape 12 inches above all piping, conduit, etc., as backfilling processes. Trench and excavation work shall not include pavement breaking, cutting of holes through foundation walls and floors, removal of obstructions, relaying and/or repairing of floors, and repaving, which work shall be the responsibility of the General Contractor. Contractor shall do all necessary trenching, excavation and backfilling for the proper installation of his work. Care shall be taken not to excavate below depth required, that trench beds are well rounded and that ground under pipe line is firm and secure before any pipe is laid. Trenches shall be excavated where bells of pipe occur in order to insure a pipe resting on the entire length of the bottom of the trench. Unless otherwise noted, minimum cover over underground lines shall be 2-1/2 feet, except under streets and parking lots where minimum cover shall be 3 feet. The width of the trench shall be sufficient to permit thorough compaction of the backfill under and around the pipe but not exceeding the external diameter of the pipe by more than 12 inches. Excavation for pipes shall be by hand and/or machine and as specified herein and shall confirm to the lines and elevations indicated on the plans.The pipe shall be placed on a uniformly firm and compacted bed of sand, carefully shaped to support the pipe at the desired grade and so that any reaction will be distributed as nearly uniform as possible over a horizontal width of not less than six-tenths (6/10) of the outside diameter and all possibility of concentration of the reaction at or near the vertical diameter eliminated. The bed shall be shaped as to fit the lower part of the pipe exterior for at least 10 percent of its overall height. The pipe shall be placed on a firm foundation. Any muck or other objectionable material found during excavation and preparation of the bed shall be removed and replaced with suitable bed material directed by the Architect. All trenches and excavation shall be backfilled in a reasonable time after the pipes are installed unless otherwise directed by the Architect. Special care shall be taken in placing the backfill and extra care shall be used to obtain compaction under and along sides to the top of the pipe. The backfill shall be placed in loose layers not exceeding 6 inches in depth under and around the pipe and not exceeding 8 inches over the pipe. Each layer shall be compacted to the compaction requirements as specified by the Architect. Compaction shall be by hand and pneumatic tampers and the successive layers shall be added and compacted until the trench is completely filled and brought to elevation as directed. Back-filling shall be done in such a manner as to avoid injurious top or side pressures on the pipe. Improper backfilling and compacting shall be cause to have the trench opened to expose the pipe for inspection then properly backfilled and compacted with fill material. Where trenching is for piping, the bottom of the trench shall have minimum 95 percent compaction and shall be bedded with minimum 12 inches compacted sand, crushed stone or shell on undisturbed soil (minimum 95 percent compaction).

N. MATERIALS

1. Work materials shall be new and the best of their respective kinds, and shall bear the label of NFPA, ASME Code, AGA, and UL where such standard has been established for the particular item of equipment used.

O. MATERIAL STORAGE

General: Provide space for storage of material and equipment at ground level. Roof surfaces shall not be used for storage of materials or equipment. Any storage within the building shall be approved by the Architect/Engineer prior to use of the space. Exterior: Pipe, fitting, or other materials stored outside of building shall be set on wood or steel racks or platforms inside storage container units. All necessary provisions shall be made to keep water and debris away from such stored material. Ends of pipes and valves shall be kept sealed until used. Warehousing: Equipment subject to rusting shall be kept warehoused until just prior to setting. If necessary the warehouse shall have climate controlled conditions. Offsite warehousing shall be approved by the Architect and Owner only. Any warehousing used shall be approved by the Owner and an insurance certificate naming the Owner as insured shall be provided to the Owner.

P. GROUNDS AND CHASES

1. Contractor shall see that all required chases, sleeves, grounds, holes and accessories necessary for the installation of his work are properly built in as the work progresses; otherwise he shall bear the cost of providing them.

Q. MACHINERY GUARDS

1. Contractor shall provide v-belt guards for each v-belt drive or other hazardous drive. Guard shall enclose the drive entirely and shall have a hole for taking tachometer reading.

R. SPECIAL TOOLS

1. Special tools required for proper operation or maintenance of any equipment provided under this contract shall be delivered to the Owner at the completion of the project.

S. FILL AND CHARGES FOR EQUIPMENT

1. Fill and charge with materials or chemicals all devices or equipment as required to comply with the manufacturer's guarantee or as required for proper operation of the equipment. This contractor shall flush systems as required per local and state jurisdictions and equipment/material manufacturer's guidelines (chlorination, chemical treatment, etc.).

T. EQUIPMENT IDENTIFICATION

1. All items of major equipment shall be neatly and clearly stenciled in letters not less than 1 inch high, with the same designation as appears on drawing. Location and color of such stenciling shall be appropriate for ready identification and/or as directed by the Architect. At contractor's option engraved plastic adhesive tags may be used. Tags used outdoors shall be listed for such use.

2. All piping, etc., both insulated and bare, shall be color coded with a general purpose pipe marker for interior locations and a 6 inch enamel painted ban for exterior locations, and stenciled as to service and characteristics on the 10 foot centers and/or as directed. Directional arrows not less than 1/2 inch wide and not less than 6 inches long shall be permanently stenciled on each line at each stencil location. Stenciling shall be located such that it is clearly visible from floor or adjacent service platform. Coding shall be as per schedule approved by Owner through submittal to Architect. At contractor's option, pre-manufactured vinyl pipe labels and directional arrows may be used but shall be banded on either end to secure to pipe.

3. Valve tags shall be installed on all valves controlling building zones, areas, or equipment. Valve tags shall be 2 inch diameter brass stenciled with valve number. A framed list of valves with associated numbers, sizes and locations shall be mounted in the building as directed by Architect.

U. TEMPORARY USE OF EQUIPMENT

1. The permanent equipment installation shall not be used for temporary purposes by the contractor for temporary conditioning of the building during construction. Contractor shall provide temporary dehumidification and drying equipment as required to maintain clean, dry air during construction.

2. Acceptable Use Without Specific Authorization: Temporary use shall not be construed to mean "bumping" of electric motors on equipment to verify rotation direction nor short time operation of systems for test purposes, operation of refrigeration and heating system for short periods to adjust controls and temperature regulation, or the operation of fans for air balance.

V. CLEANING AND ADJUSTING

1. Upon completion of his work, the contractor shall clean and adjust all equipment, controls, valves, etc. Clean all piping, ductwork, etc., and leave entire installation in good working order.

W. PAINTING

1. This contractor shall obtain the services of a painting sub-contractor as part of his contract with the General Contractor for all painting.

2. Except for standard factory finishes, all pipe, pipe covering, ducts, equipment, supports, hangers, etc., exposed inside and outside building or in equipment room shall be painted. This contractor shall prepare surface of material to receive first coat of paint. All subsequent coatings shall be prepared by Painting Subcontractor. Requirements covering paints, workmanship and preparation of surfaces as stated in Architectural Specifications shall govern. Color coding shall be approved by Architect (submit color sample). All submittals for review shall be through Architect.

3. Where standard equipment factory finishes have been damaged or scratched, the damaged area shall be repaired or replaced by the contractor to match the original finish. Thoroughly clean surfaces of all rust, scale, cement, and dirt from all equipment, piping or other work installed and leave ready for finish painting. All exposed piping shall be painted. Paint with two (2) coats of paint. The color shall be industry standard color coding. Submit color code chart with sample color chips to Architect for review prior to starting work.

X. FIRESTOPPING

1. Penetrations through rated construction shall be sealed with a material capable of preventing the passage of flames and hot gases when tested in accordance with ASTM-E814. Notify Architect for inspection of all completed fire and/or smoke barrier walls before any construction is installed that may conceal the firestopping material installation. Access to random selected areas may be required by the architect at the time of final inspection should notification not be given. Provide detailed instructive cutsheets of fire penetration sealing system (firestopping) used to the architect at the time of inspection. Random selective sampling by the contractor will be observed by the architect and State Fire Marshal.

Y. NOISE VIBRATION

1. Take the utmost precautions in the installation of the equipment, piping, and duct systems to prevent noise and vibration transmission. Equipment that would tend to cause noise or vibration shall be isolated to prevent noise transmission to the building or to other equipment. Piping, conduit, or other connections to equipment shall be isolated. The contractor shall be responsible for the prevention of noise and vibration transmission through these connections to equipment.

Z. PERMITS, INSPECTIONS AND TESTS

1. Contractor shall obtain and pay for permits, fees, etc., for the installation, inspection, service connections, verifying location or construction of the work which are required by any authority and/or agencies having jurisdiction. Contractor shall arrange and pay for inspections, examinations and tests required to obtain complete and final acceptance of all HVAC/plumbing systems. Contractor shall deliver certificates of all such inspections to the Architect.

2. Contractor shall notify Architect and local governing authorities before any tests are made and tests are not to be drawn off a line covered or insulated until examined and approved by the authorities. In the event defects are found, these shall be corrected and the work shall be retested.

3. Prior to requesting final inspection by the Architect, the contractor shall have a complete coordination and adjustment meeting of all of his subcontractors directly responsible for the operation of any portion of the system. At the time of this meeting, each and every sequence of operation shall be checked to assure proper operation. Notify the Architect in writing ten days prior to this meeting instructing him of the time, date and whom you are requesting be present. This project shall not be accepted until the above provisions are met to the satisfaction of the Architect.

AA. TRAINING OF MAINTENANCE PERSONNEL

1. Contractor shall provide on the job training for Owner's personnel upon completion of the work including testing and adjustment. Minimum 16 hours of onsite training shall include maintenance checks, lubrication of components, adjustment of control set points, and troubleshooting techniques of the air conditioning unit. Contractor shall use factory start-up personnel to train the owner's maintenance personnel.

BB. OPERATION AND MAINTENANCE INSTRUCTIONS

1. Provide Owner with four (4) copies of printed instructions indicating various pieces of equipment by name and model number complete with parts lists and maintenance and repair instructions. This information shall be bound in plastic covered notebooks. Submit the manuals to the Architect for approval. Include all warranty certificates or statements in a separate section of the manuals. Provide all materials and test certificates for the final inspection.

CC. GUARANTEE

1. Contractor shall guarantee all materials, equipment and workmanship for a period of one year from the date of final acceptance of the project. This guarantee shall include furnishing of all labor and material necessary to make any repairs, adjustments or replacement of any equipment, parts, etc., necessary to restore the project to first class condition. This guarantee shall exclude only the changing or cleaning of filters. If the contractor's office is in excess of a 50 mile radius of the project, he shall appoint a local qualified contractor to perform any emergency repairs or adjustments required during the guarantee period. The contractor appointed to provide emergency services shall be submitted to the Architect for his approval.

DD. WARRANTIES

1. Assemble warranties executed by each of the respective manufacturers, suppliers, and subcontractors into a warranty book and prepare a table of contents. Include contact information for all warranties.

EE. RECORD DRAWINGS

1. Contractor shall maintain two sets of drawings of the original construction documents to utilize as markup sets to record field modifications from original construction documents. Once approval has been gained from the Architect, the contractor shall record these variances on the two sets in a neat and readable manner. Noted shall be sizes, locations, changes in directions, etc. with distances dimensioned from columns, walls, inverts, etc. The maintenance and cost of these documents shall be the responsibility of the contractor.

FF. DEMOLITION

1. This contractor shall do all demolition as shown on the plans. The contractor shall make the areas ready for the new construction work. All demolition debris, piping, equipment, etc., shall be removed from the site by this contractor. All demolition work shall be scheduled through the General Contractor to prevent interruption of any existing services. Do not start any demolition which would interrupt the building operation without scheduling with the Owner (schedule through the General Contractor).

2. The Owner shall retain first salvage rights to anything within the demolition area. If the Owner selected an item to be retained, then this contractor shall remove it with care and deliver the item to the Owner designated location on site. Anything not retained by the Owner shall become the property of the contractor and be removed from the site.

GG. MATERIALS CONTAINING HAZARDOUS SUBSTANCES OR COMPONENTS

1. This contractor shall not provide any material or component of equipment which contains asbestos, lead based paint or PCBs. The contractor shall provide certificates or manufacturer's statements/letters to show that the products and/or building materials do not contain asbestos, lead based paint or PCBs. If any product or building material is found to contain asbestos, lead based paint or PCBs, the contractor shall bear all cost for removal, abatement, and disposal of materials in accordance with all state and federal regulations. The contractor shall install replacement materials to the satisfaction of the Architect at no additional cost to the project. During the construction, if the contractor suspects that any material in the building contains or is a hazard material (asbestos, lead, PCB, mercury, etc.) work shall be stopped to prevent disturbance and the Owner shall be notified immediately.

BASIC MATERIALS AND METHODS

I. GENERAL

A. DESCRIPTION

1. Type of piping for various systems shall be as specified herein. All pipe shall be true and straight without sags or traps.

II. MATERIALS

A. SANITARY SEWER/GREASE WASTE AND VENT LINES

1. All sanitary sewer waste and vent lines above and below building slab shall be constructed of Schedule 40 PVC plastic lines and fittings with solvent weld joints (solid core allowed only; foam or cell core not acceptable). Where space requirements do not allow the use of the above materials, government type DWV copper pipe shall be used.

2. Grease waste lines from plumbing fixture to 10ft beyond shall be constructed of service weight bell and spigot cast iron pipe and fittings. Beyond 10ft plumbing contractor may transition back to Schedule 40 PVC. Grease waste vent piping may be Schedule 40 pvc.

B. DOMESTIC WATER PIPE/WATER HEATER RELIEF PIPE/EQUIPMENT DRAIN PIPE/TRAP PRIMER

1. All domestic cold water lines/hot water lines within building, water heater relief lines and equipment drain piping shall be government type "L" hard copper water tube of standard weight and thickness, unless indicated otherwise. Use 95-5 "lead free" solder on all piping above slab. Use Silfos 1000 degrees Fahrenheit solder on all piping beneath slabs. "Pro-Press' or "Press-Fit' Piping is not acceptable. Contractor shall have the option of PEX piping for interior water lines but shall be consistent with colors of hot and cold water.

C. REFRIGERANT PIPING

1. All refrigerant piping shall be government type "L" hard copper tube standard weight and thickness as made by Mueller, Chase, Anaconda or equivalent, unless indicated otherwise. Use Silfos 1000 degrees Fahrenheit solder on all joints. Tubing shall be brought to the site with ends sealed.

D. A/C CONDENSATE DRAIN PIPING

1. All A/C condensate drain piping shall be government type "L" hard copper water tube of standard weight and thickness. Fittings shall be compatible with pipe. Use Silfos 1000 degrees Fahrenheit solder on all joints. Piping at exterior may be Schedule 40 pvc pipe and fittings.

E. PIPE FITTINGS

1. All pipe fittings shall be same as piping specified unless indicated otherwise. Fittings for refrigerant piping and other copper lines shall be solder type wrought copper, Nibco or equivalent.

F. PIPE SPECIALTIES

1. Dielectric unions shall be used between copper and iron pipe.

G. PIPE HANGERS AND SUPPORTS

This contractor shall furnish and install all foundations and supports required for his equipment unless indicated otherwise on the drawings. This contractor shall furnish and install all escutcheons, inserts, thimbles, hangers, etc., required for the proper support and installation of his equipment and piping. Cooperate with other trades in locating and placing these items. Provide sleeves for all pipes passing through walls, floors, beams, etc. Sleeves passing through structural members shall be of cast iron or Schedule 40 steel pipe unless other material is approved by the structural engineer. Sleeves passing through nonstructural walls or floors shall be Schedule 10 galvanized iron. Joints between sleeves and pipes passing through floors shall be made watertight with plastic materials. Where pipes pass through floors shall be made watertight with plastic materials. Where pipes pass through waterproofing membrane, flashing sleeves shall be installed. Provide malleable iron split ring hangers with rod supports throughout. Strap hangers or wire will not be accepted. Maximum spacing of hangers for cast iron pipes shall be 5 feet; for other than soil, use 10 feet. Provide galvanized iron shields between hangers and pipe covering. Provide chrome plated brass escutcheons wherever pipes pass through floors, walls or ceilings in exposed or finished areas. All piping projecting from chases shall be rigidly supported in the wall or chase. Loosely supported piping or accessories will not be accepted.

H. VALVES AND UNIONS

Furnish and install all valves, unions, stops, connections, etc., shown on plans and necessary to make a complete system in working order. Provide valves on inlet and outlet of all equipment and fixtures and on branch lines to fixtures or groups of fixtures. All valves, unions, etc., where pipe is chrome plated shall have similar finish. All exposed supplies to plumbing fixtures shall be chrome plated. Ball valves shall be as manufactured by Milwaukee Valve (MV), Watts, Stockham, Powell, NIBCO, Neles-Jamesbury or Hammond. All valves over 2 inches shall be flanged type and full port type. All valves 2 inches and smaller shall be screw type, sweat type or flanged type as appropriate for type of pipe.

I. MOTORS STARTERS AND ELECTRICAL WORK

1. The HVAC/Plumbing Contractor shall furnish to Electrical Contractor for installation, all motor starters, start-stop push buttons and pilot lights for each piece of motor driven equipment unless shown otherwise.

2. The Electrical Contractor shall install all motor starters, start-stop push buttons and pilot lights as furnished by the HVAC/Plumbing Contractor. The Electrical Contractor shall do all power wiring required for the installation of all mechanical equipment including equipment interlocking power wiring, etc. Temperature control wiring shall be furnished and installed by the HVAC Contractor. All work shall be done in accordance with the National Electrical Code requirements and with wiring workmanship, etc., as called for in the Electrical Specifications. The HVAC/Plumbing Contractor shall provide approved wiring diagrams of all equipment, controls, etc., to the Electrical Contractor for his installation. Coordinate all work to provide a complete system in working order. All wiring shall be plenum rated.

3. All electrical equipment shall have UL label or ETL label and shall meet the standards of the National Electrical Code and NEMA.

1 MECHANICAL SPECIFICATIONS
N.T.S.

2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION: ARTICLE 1 AIA DOCUMENT A201,ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED.

4. AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ARCHITECT ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ARCHITECT. ANY SUBMISSION OR DISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT MAY BE CONSTRUED AS DEROGATION OF THE ARCHITECTS COPYRIGHT OR OTHER RESERVED RIGHTS.

REUSE OF THIS DRAWING IN ANY MANNER IS STRICTLY PROHIBITED WITHOUT THE WRITTEN APPROVAL OF RITTER CONSULTING ENGINEERS LTD.

REVISIONS BY

RESTAURANT AND LEASE SPACE FOR
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PROFESSIONAL ENGINEER
IN
MECHANICAL ENGINEERING
5-20-26

DRAWN	FJM/ABM
CHECKED	ABM
DATE	5-20-26
PROJECT NO.	1161-25

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9 OF 12 SHEETS

4. HVAC contractor shall provide and install all smoke dampers and smoke or duct detectors. The electrical contractor shall provide and install all wiring/interlocks with fire alarm.

ACCESS PANELS

1. Furnish and install access panels where valves, dampers, etc., are concealed in walls, ceilings, floors or otherwise inaccessible. Panels shall be Milcor, Babcock, Larsen, MIFAB, Acudor, Nystrom or equivalent. All access panels shall be minimum 18 inches X 18 inches hinged with flush latch and lock. The panels shall be constructed of minimum 18 gauge stainless steel. Frame flange shall be minimum 1-1/2 inches wide. Rated panels shall have U.L. rating for type wall or ceiling where located. Access panels located in rated walls, floors, or ceilings shall be so rated and installed per manufacturer's recommendations to maintain rated integrity.

. EXECUTION

SANITARY SEWER PIPE

1. Pipe ends shall be square cut. Ends of pipes shall be reamed and shall be wiped clean to remove cuttings. Before installation, pipe shall be stood on end and tapped sharply to remove cuttings and other foreign materials from interior. Pipe shall be thoroughly cleaned inside and outside. Bending or springing of pipe shall not be permitted.

2. Various service pipes, valves, fittings, etc., running parallel with each other and near together shall be in line with each other and shall be kept at a sufficient distance from each other and other work to permit no less than 1/2 inch between finished coverings on different services.

3. Each contractor shall furnish all foundations, structural or pipe supports indicated, called for specifically or that may be required to support his particular equipment and material unless hangers are definitely indicated as being furnished by others. All horizontal runs of piping shall be securely supported by pipe hangers spaced at not more than 10 feet apart and closer when necessary to prevent sagging. Sewer waste and vent lines shall be supported every 5 feet.

4. Perforated strap hangers shall not be allowed for any part of the hangers.

5. Drainage and vent pipes: Horizontal soil and waste pipes 3 inches and smaller shall have a grade of 1/4 inch per foot, lines 4 inches and larger shall have a grade of 1/8 inch per foot unless otherwise specified. The main vertical soil and waste vent shall be extended full size through the wall. Cast-iron pipe inside the building shall be extended 6 inches above the floor.

6. Fittings: Changes in pipe size on soil, waste, and drain lines shall be made with reducing fittings of recessed reducers. All changes in direction shall be made by the appropriate use of 45 degree wyes, long or short sweep 1/4 bends, 1/6, 1/8, or 1/16 bends, or by a combination of those or equivalent fitting, except that single and double sanitary tees may be used in drainage lines only where the direction of flow is from horizontal to vertical. Short sweeps not less than 3 inches in diameter may be used where the change in direction of flow is either from horizontal to vertical or from vertical to horizontal.

7. Pipe sleeve, hangers, and fixture supports: These items shall be furnished and set and the contractor shall be responsible for their proper and permanent location.

   a. Pipe sleeves – Install sleeves for all pipes passing through footings, floors, and walls. Clearance between sleeves and pipe covering and/or pipes shall be approximately 1/4 inch. Construction shall not be cut except where approved by the Architect. Where cutting of construction is permitted, the construction shall be repaired to match its original condition. Sleeves shall not be installed in structural members except where indicated. Sleeves are not required for wall hydrants.
      1) Install sleeves for pipes that pass through walls. Sleeves that pass through walls shall be cut flush with surfaces. The space between sleeves and pipe or covering shall be sealed with graphite packing and synthetic rubber caulking compound.
      2) Install sleeves where pipes pass through waterproofing membrane. The sleeves shall be provided with an integral flashing flange or a clamping device to which a 4 pound lead flashing shield shall be clamped or soldered. The shield shall extend 12 inches from the pipe and shall be thoroughly mopped into the membrane. The space between the sleeve and pipe shall be made watertight by inserting an oakum gasket, filling the remaining space with lead, and thoroughly caulking.
   b. Threaded pipe – Support pipes at 7 foot intervals.
   c. Copper tubing – Support tubing at not more than 5 foot intervals. Hangers for copper tubing except where protective shields are installed shall have proper size rings to suit outside diameter of tubing and the hangers or supports shall be copper or copper plated at contact surfaces.
   d. Underground piping – Lay pipe on a firm bed for its entire length, except where support is otherwise provided.
   e. Vertical piping – Supports shall be at each floor. Horizontal piping – Hangers and supports shall be installed at locations not more than 3 feet from the end of each run out. A hanger shall be installed not over 1 foot from each change in direction of piping.

8. Make connections to equipment and branch mains with unions.

9. Provide drain valves at main shutoff valves, low points of piping and apparatus.

10. Install each fixture with trap, easily removable for servicing and cleaning. Each trap shall be placed as near the fixture as possible, and no fixture shall be double trapped. At completion thoroughly clean plumbing fixtures and equipment.

11. Fixture connections: Connections between earthenware fixtures and flanges on soil pipes shall be made absolutely gas tight and water tight with a closet-setting compound or gasket. Bolts shall be not less than 1/4 inch in diameter and shall be equipped with chromium-plated nuts and washers.

12. Test sanitary drainage, condensate drains and vent systems with water or air in accordance with requirements of the State Sanitary Code, International Plumbing Code and all applicable local codes. Water test may be applied to entire drainage systems or sections of systems. All openings shall be tightly closed in section to be tested except at highest opening. All portions of systems shall be subject to a minimum of 10 feet head of water. Water must have been in the system two hours prior to inspection. Air test in accordance with the Plumbing Code may be used at contractor's option.

DOMESTIC WATER PIPE

1. Perforated strap hangers shall not be allowed for any part of the hangers.

2. Mains, branches, and run outs: Piping shall be installed as indicated on the drawings. Pipe shall be cut accurately to measurements established at the building and shall be worked into place without springing or forcing. Care shall be taken not to weaken structural portions of the building. Above ground piping shall be run parallel with the lines of the building unless otherwise shown or noted on the drawings. Branch pipes from service lines may be taken from top, bottom, side or main, using such crossover fittings as may be required by structural or installation conditions. Service pipes, valves, and fittings shall be kept a sufficient distance from other work and other services to permit not less than 1/2 inch between finished covering and other work and not 1/2 inch between finished covering on the different services. No water pipe shall be made with reducing fittings. Use of long screws and bushings will not be permitted. Slope water pipe 1 inch in 40 feet and arrange to drain at low point.

3. Expansion and contraction of piping: Allowance for expansion and contraction shall be made throughout. Sufficient flexibility shall be provided on all branch run outs from mains to risers to provide for expansion and contraction of piping. Flexibility shall be provided by installing one or more turns in the line so that the piping will spring enough to allow for expansion without straining.

4. Joints: Tubing shall be cut square, and butts shall be removed. Both inside of fittings and outside of tubing shall be well cleaned with steel wool before sweating. Care shall be taken to prevent annealing of fittings and hard drawn tubing when making connections. Installation shall be made by competent workmen in accordance with manufacturer's recommendation. Mitering of joints for elbows and notching of straight runs of pipe for tees will not be permitted. Joints for soldered fittings shall be made with a noncorrosive paste flux and solid string of wire solder. Cored solder will not be permitted.

5. Valves: Valves shall be provided on all supplies to fixtures as specified under type of fixture and fixture trimmings. Valves indicated in connection with run outs, risers, branches, and mains shall be in accordance with this specification. No valve shall be installed on any lines with its stem below the horizontal. All valves shall be gate valves unless otherwise specified or indicated. Provide drain valves at main shut-off valves, low points of piping and apparatus.

6. Pipe sleeve, hangers, and fixture supports: These items shall be furnished and set and the contractor shall be responsible for their proper and permanent location.

   a. Pipe sleeves – Install sleeves for all pipes passing through footings, floors, and walls. Clearance between sleeves and pipe covering and/or pipes shall be approximately 1/4 inch. Construction shall not be cut except where approved by the Architect. Where cutting of construction is permitted, the construction shall be repaired to match its original condition. Sleeves shall not be installed in structural members except where indicated. Sleeves are not required for wall hydrants.
      1) Install sleeves for pipes that pass through walls. Sleeves that pass through walls shall be cut flush with surfaces. The space between sleeves and pipe or covering shall be sealed with graphite packing and synthetic rubber caulking compound.
      2) Install sleeves where pipes pass through waterproofing membrane. The sleeves shall be provided with an integral flashing flange or a clamping device to which a 4 pound lead flashing shield shall be clamped or soldered. The shield shall extend 12 inches from the pipe and shall be thoroughly mopped into the membrane. The space between the sleeve and pipe shall be made watertight by inserting an oakum gasket, filling the remaining space with lead, and thoroughly caulking.
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   d. Underground piping – Lay pipe on a firm bed for its entire length, except where support is otherwise provided.
   e. Vertical piping – Supports shall be at each floor. Horizontal piping – Hangers and supports shall be installed at locations not more than 3 feet from the end of each run out. A hanger shall be installed not over 1 foot from each change in direction of piping.

7. Unions: Make connections to equipment and branch mains with unions. Provide non-conducting type connections wherever jointing dissimilar metals in open systems. Brass adapters and valves are acceptable.

8. Domestic cold water lines penetrating concrete slabs shall be wrapped with vinyl flexible tube. Domestic hot or return water piping penetrating concrete slabs shall be insulated at all penetrations through slab (refer to insulation specifications).

9. Provide drain valves at main shutoff valves, low points of piping and apparatus.

10. Provide and install air vents with shutoff valve at all high points in the system.

11. Hydrostatically test entire domestic water system to 200 psig or 2-1/2 times normal working pressure, whichever is greater.

12. Sealing or flashing the building envelope due to penetrations in building shall be the responsibility of the general contractor.

13. Water service to fixtures or groups of fixtures shall have 12 inch long air chambers at the same diameter as header or service pipe on both hot and cold water lines. Air chamber shall be installed close to fixture. Provide and install shock arrestors on sterilizer water supplies or supplies with quick closing valves such as flush valves, dishwashers, tempering valves, etc. Location and size of shock arrestor shall be as per manufacturer's instructions.

TESTING, ADJUSTING AND BALANCING

I. GENERAL

A. SCOPE OF WORK

1. The HVAC Contractor shall obtain the services of an independent test and balance company which specializes in the testing and balancing of heating, ventilating and air conditioning (HVAC) systems to test, adjust and balance all HVAC systems in the building(s). These services shall not be provided by the installing mechanical contractor on the project but shall be a direct subcontractor of the mechanical contractor. TAB contractor shall be NEBB, AABC or TABB certified.

2. The work included in this section consists of furnishing labor, instruments, and tools required in testing, adjusting and balancing the HVAC systems, as described in these Specifications or shown on accompanying drawings. Services shall include checking equipment performance, taking the specified measurements, and recording and reporting the results.

3. Representatives of the test and balance company shall visit the job site to review the installation. The test and balance company shall report to the Contactor any items that are not installed properly, are missing from the Contract Documents or items that are required to enable him to perform the testing and balancing of the HVAC systems as per normal standard practice. The contractor shall implement the recommendations at no additional cost to the Owner if these items were specified in the original scope of the project.

4. Upon completion of the HVAC system installation, the test and balance company shall perform all testing and balancing with the full cooperation of the contractor and his subcontractors. The contractor shall make changes and/or adjustments to the HVAC system components that are required by the test and balance company to accomplish proper balancing. The TAB agency shall not supply or install any materials or balancing devices such as pulleys, drives, belts, etc. All of this work by the contractor shall be performed at no additional cost to the Owner.

5. The Test and Balance Company shall supply four (4) copies of the final and complete report for inclusion in the Operation and Maintenance Manuals.

B. The items requiring testing, adjusting, and balancing include (but are not restricted to) the following:

1. AIR SYSTEMS:
   Packaged Air Handling Units/Split Systems
   Exhaust Fans / Supply Fans
   Zone Branch and Main Ducts
   Diffusers, Registers, Grilles and Dampers
   Coils (Air Temperatures)
   Valves
   Duct Smoke/Pressure Leak Testing

C. DEFINITIONS, REFERENCES, STANDARDS

1. All work shall be in accordance with the latest edition of the Associated Air Balance Council (AABC) National Standards or the latest standards of the National Environmental Balancing Bureau (NEBB). If these contract documents set forth more stringent requirements than the AABC National Standards or the NEBB Standards, these contract documents shall prevail.

II. INSTRUMENTATION

A. All instruments used for measurements shall be accurate and calibrated. Calibration and maintenance of all instruments shall be in accordance with the requirements of AABC or NEBB National Standards.

III. EXECUTION

A. GENERAL

HVAC Contractor shall put heating, ventilating, and cooling systems and equipment into full operation and continue their operation during each working day of testing and balancing. Air Balance and Testing Agency shall perform tests specified, compile test data, and submit four copies of complete test data to contractor for forwarding to Engineer for evaluation and approval. Approved copies of report shall be bound in Operations and Maintenance manuals. The specified systems shall be reviewed and inspected for conformance to design documents. Testing, adjusting and balancing on each identified system shall be performed. The accuracy of measurements shall be in accordance with AABC or NEBB National Standards. Adjustment tolerances shall be + or –10 percent unless otherwise stated. Equipment settings, including manual damper quadrant positions, valve indicators, fan speed control levers, and similar controls and devices shall be marked to show final settings. All information necessary to complete a proper TAB project and report shall be per AABC or NEBB standards unless otherwise noted. The descriptions of work required, as listed in this section, are a guide to the minimum information needed. TAB contractor shall cut insulation, ductwork and piping for installation of test probes to the minimum extent necessary to allow adequate performance of procedures. Upon completion, patch insulation, ductwork and housings using materials identical to those removed. Seal insulation to reestablish integrity of the vapor barrier. TAB work shall include additional inspection and adjustment of components during the season following the initial balance to include re-balance of any items influenced by seasonal changes or as directed by the Owner.

B. AIR SYSTEMS

1. TESTING PROCEDURE
   Air Balance and Testing Agency shall perform following tests and balance system in accordance with following requirements. Perform the following tests at high and low speeds of multi-speed systems and single speed system.

   a. Make periodic inspections of the installation of the systems. Provide reports of each inspection. Coordinate and verify the installation of all balancing dampers, fire dampers, etc.
   b. Pressure test each low pressure steel duct system to test for air tightness.
      1) If ducted systems leak, do not continue with air balance. Report findings to Engineer in writing and begin testing again after HVAC Contractor has repaired ducts or applied duct sealers.
      2) If ducted systems appear air tight, proceed with air balance procedure as outlined below.
      3) Include in air balance report a letter indicating smoke testing has been accomplished and a report of findings regarding airtightness of each ducted system.
      4) Maximum leakage loss shall not exceed 2 percent. If losses are greater, the HVAC Contractor shall correct the leakage, then the test and balance agency shall retest the ductwork.
   c. Test and adjust blower rpm to design requirements.
   d. Test and record motor full load amperes.
   e. Make Pitot Tube traverse of main supply and return and obtain design cfm.
   f. Test and record system static pressures, suction, and discharge.
   g. Test and adjust system for design cfm air.
   h. Test and adjust system for design cfm outside air.
   i. Test and record entering air temperatures (db heating and cooling).
   j. Test and record entering air temperatures (wb cooling).
   k. Test and record leaving air temperatures (db heating and cooling).
   l. Test and record leaving air temperatures (wb cooling).
   m. Adjust main supply and return air ducts to proper design cfm.
   n. Adjust zones to proper design cfm, supply and return.
   o. Test and adjust each diffuser, grille, and register to within 10 percent of design requirements.
   p. Identify each diffuser, grille, and register to location and area.
   q. Identify and list size, type, and Manufacturer of diffusers, grilles, registers, and testing equipment. Use Manufacturer's rating on equipment to make required calculations.
   r. In readings and tests of diffusers, grilles, and registers, include required fpm velocity and test fpm velocity and required cfm and test cfm after adjustments.
   s. In cooperation with Mechanical Contractor, set adjustments of automatically operated dampers to operate as specified, indicated, or noted.
   t. Adjust diffusers, grilles, and registers to minimize drafts.
   u. Verify the calibration of temperature control devices, thermostats, etc.
   v. Verify all control sequences with specifications.
   w. Include manufacturer's performance data with reports.
   x. Schedule three inspections to verify original test and balance of systems within 90 days of acceptance by Owner. Make opposite season adjustment and inspection of systems at one year after acceptance by Owner. Submit reports after each inspection. Submit schedule as part of initial report.

2. Where systems supplied to job site provides over 5 percent more air than schedule requirements, rooms supplied by that system shall have their supply air quantities increased by the ratio of the actual total air quantity supplied to the minimum air quantity required by the schedule.

3. The TAB agency shall verify that all ductwork, splitters, extractors, dampers, grilles, registers, and diffusers have been installed per design, are functional and set full open. Any leakage in the ductwork shall be repaired prior to the test. The TAB agency shall perform the following TAB procedures in accordance with the AABC National Standards or NEBB Standards:

   a. Exhaust Fans / Supply Fans / Hood Fans
      1) Fan Speeds--Test and adjust fan RPM to achieve design cfm requirements.
      2) Current and Voltage--Test and record motor voltage and amperage, and compare data with the nameplate limits to ensure fan motor is not in or above the service factor.
      3) Pitot-Tube Traverse--Perform pitot-tube traverse of the main exhaust ducts to obtain total CFM. If a pitot-tube traverse is not practical, an explanation of why a traverse was not made must appear on the appropriate data sheet.
      4) Static Pressure--Test and record system static pressure, including the static pressure profile of each exhaust fan.

   b. Zone, Branch, and Main Ducts
      1) Adjust ducts to within design cfm requirements. As applicable, at least one zone balancing damper shall be completely open. Multi-diffuser branch ducts shall have at least one outlet or inlet volume damper completely open.

   c. Diffusers, Registers, and Grilles
      1) Tolerances--Test, adjust, and balance each diffuser, grille, and register to within 10 percent of design requirements. Minimize drafts.
      2) Identification--Identify the type, location, and size of each grille, diffuser and register. This information shall be recorded on air outlet data sheets.

   d. Coils
      1) Air Temperature--Once air flow are set to acceptable limits, take wet bulb and dry bulb air temperatures on the entering and leaving side of each cooling coil. Dry bulb temperature shall be taken on the entering and leaving side of each heating coil.

   e. Air Handling Units/Packaged & Split Systems:
      1) Location, manufacturer, model number, serial number, and motor manufacturer. Required and test data with unit operating at full air flow conditions (all space thermostats calling for cooling) for each of following: total CFM, return and outside air CFM, total static pressure, suction and discharge static pressures across unit fan, HP, amperage, voltage, fan RPM. Verify performance controls. Full load amps at outdoor conditions. Refrigerant charge.

   f. Control Systems:
      1) Verify all control sequences and calibration of all thermostats and sensors.

   g. Kitchen Hood Packaged (Exhaust and Make-Up Air)
      1) Test and Balance Contractor shall include balancing of hood equipment furnished and installed by others in his scope. Coordinate balance with installing contractor.

C. ADDITIONAL TAB SERVICES:

1. Duct Leakage Testing:
   The Installing Contractor shall isolate and seal sections of ductwork for testing. The pressurization fan and test apparatus shall be connected to the test section and the test performed. The test pressure required and the amount of duct to be tested shall be described by the engineer in the appropriate duct classification section. All testing shall be based on one test per section.

INSULATION

I. GENERAL

A. DESCRIPTION

1. Pipe insulation installation shall not begin until all work has been tested and found to be tight. All insulation shall be UL listed and have a flame spread of less than 25 and a developed smoke rating less than 50. All insulation shall be banded with aluminum bands, three per section. All insulation shall be continuous through walls, floors, ceilings, etc.

II. MATERIALS

A. DOMESTIC WATER PIPING

Cover cold water lines above ceilings and in exterior walls and all hot water lines with 1 inch thick closed cell rubber type insulation. At contractor's option, 1 inch thick fiberglass insulation with white universal jacket may be used, except within crawl spaces. All flanges, valves and fittings shall be insulated with closed cell rubber type molded fittings insulation, fabricated mitered segments of pipe insulation or closed cell rubber type insulation equivalent in thickness to insulation of adjoining pipe. All water lines outside of building exposed to the weather shall have 1 inch thick closed cell rubber type insulation covered with 0.016 smooth aluminum jacket and elbows. All water lines below building slab shall be insulated with 1 inch thick closed cell insulation with two coats of mastic.

B. HORIZONTAL WASTE PIPING

1. All horizontal waste lines and traps above first floor slab which receive condensate from air conditioning equipment, shall be insulated with 2 inch thick, 3/4 pound density fiberglass insulation with aluminum foil vapor barrier or closed cell rubber insulation.

C. CONDENSATE DRAIN PIPING

1. Insulate condensate drain piping with 1/2 inch thick closed cell rubber type insulation.

D. REFRIGERANT LINES

1. Insulate all refrigerant lines with closed cell rubber insulation. Apply two coats of black mastic where the lines are exposed to the weather. Refrigerant piping below grade shall be installed in watertight PVC sleeve. Interior piping insulation shall be 1" thick, exterior lines shall be insulated with 1-1/2" thick insulation.

E. AIR CONDITIONING DUCTWORK

1. Insulate concealed ducts with 3" thick 1 pound (R-8) flexible Fiberglass duct insulation) with aluminum foil facing. Duct insulation to be applied with 2 inches lap of facing sealed with tape and outward clinch staples. Seal all joints with 2 inch wide vapor barrier tape. An additional band of tape shall be applied between the circumferential joints for a maximum 2 foot spacing of taped bands.

2. Exposed ductwork shall be double wall internally lined, primed and painted color as selected by Architect.

F. NOT USED.

G. INSULATION BANDS

1. All pipe insulation shall be banded with nylon tie-wrap bands, three to a section, and with one band on each side of each fitting, valve, etc.

H. FLANGES, VALVES AND FITTINGS

1. All flanges, valves and fittings shall be insulated with fabricated fiberglass molded fitting insulation, using factory fabricated fittings up to 3 inches and fabricated mitered segments of pipe insulation equal in thickness to the insulation to the adjoining pipe. All fabricated mitered segments shall be covered with matching embossed vapor barrier laminate.

III. INSTALLATION

A. Provide clearance for installation of insulation and for access to valves, air vents, drains and unions.

1. Insulation Installation:

   a. Do not install covering before piping has been tested and approved.
   b. Ensure piping surface is clean and dry prior to installation.
   c. Ensure insulation is dry before and during application.
   d. Insulation shall be continuous through walls, floors and ceiling. Pack around pipes with fire proof self-supporting insulation material, fully sealed.
   e. Insulate fittings and valves. The end of the insulation shall be fitted with a metal escutcheon plate with set screw or taped neatly with pressure sensitive fiberglass reinforcing cloth.
   f. All joints shall be sealed with 3 inch wide fiberglass reinforcing cloth with pressure sensitive adhesive.
   g. Pipe insulation at Hangers and Supports: Pipe insulation at hanger and support shall be protected with a half circular shield of the size of the insulation and 12 inches long constructed from 20 gauge galvanized steel. The shield shall be held in place with the fiberglass reinforcing cloth and pressure sensitive adhesive. Where pipes pass through walls, ceiling and floor in finished areas, escutcheon plates shall be installed to encompass pipe and insulation. Escutcheon plates shall be chromed brass or stainless steel and shall be either solid or the clamp on split type.
   h. Painting of fiberglass pipe jacket is not required. Piping shall be painted colors as per Architect.

WATER SUPPLY

I. DESCRIPTION

A. Install water supply piping as indicated on plans. All water supply piping shall be of materials hereinbefore specified and shall be disinfected in accordance with the State Sanitary Code. Water lines run underground shall have a minimum of 24 inches cover to finished grade. Make up complete water supply system. Connect to all fixtures and outlets requiring water.

B. At each fixture or group of fixtures furnish and install a 12 inch high air chamber of same size as branch feed line except at fixtures with quick closing valves such as flush valves, dishwashers, etc., in which cases provide "Shock Arrester" properly sized for each unit.

WASTE WATER DISPOSAL

I. GENERAL

A. DESCRIPTION

1. Extend sanitary sewer lines to the location as shown on the plans.

II. MATERIALS

A. PIPING

1. The system of sewage and drainage shall be of materials as hereinbefore specified except where space requirements necessitate the use of Type "DWV" copper.

III. EXECUTION

A. INSTALLATION

1. All work shall be in strict conformity with the State Plumbing Code and in accordance with all local codes. Piping shall be routed as shown on plans or in acceptable manner to meet building conditions. Venting shall be as shown on plumbing riser diagrams. Connections between traps and cast iron pipes are to be made with heavy brass ferrules. Provide reducers, increasers, special flanges, and fittings where required between piping work and fixtures in order to connect and complete work and render it ready for use. Make any offsets required to avoid construction. All lines 3 inches and smaller shall be sloped 1/4 inch per foot, lines 4 inches shall be sloped 1/8 inch per foot, lines 6 inches shall be sloped 1/16 inch per foot and all lines 8 inches and larger shall be sloped 0.4 percent. Piping shall be laid so slope is continuous. All vents shall extend 10 inches above roof and terminate in an appropriate flashing collar. No vents shall penetrate within 48 inches of an exterior wall. Offset in ceiling as required. All back vents shall be taken off as near trap as possible.
2. All lines shall be tested in accordance with requirements listed in these construction documents and State Plumbing Code.

1 MECHANICAL SPECIFICATIONS
N.T.S.

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IN
MECHANICAL ENGINEERING
5-20-26

DRAWN	FJM/ABM
CHECKED	ABM
DATE	5-20-26
PROJECT NO.	1161-25

M4.1

10 OF 12 SHEETS

NATURAL GAS PIPING/DISTRIBUTION

I. GENERAL

A. DESCRIPTION

1. Fuel gas systems, including piping, equipment and all necessary accessories as designated in this section. Fuel gas piping to equipment shall be routed as shown on plans.

B. SYSTEM PRESSURE

1. Natural gas systems, unless otherwise noted are designed and materials and equipment selected to prevent failure under gas pressure at downstream side of pressure regulator.

II. MATERIALS

A. FUEL GAS SERVICE CONNECTIONS TO BUILDING (UNDERGROUND AND/OR EXPOSED TO WEATHER)

1. From inside face of exterior wall (outside of building), use coated piping as herein before and/or herein after specified.

2. Pipe: Black Steel, ASTM A53, Schedule 40. Shop-applied pipe coating shall be one of the following types:

   Coal Tar Enamel Coating: Exterior of pipe and fittings shall be cleaned, primed with Type B primer and coated with hot-applied coal tar enamel with bonded layer of felt wrap in accordance with AWWA C203. Asbestos felt shall not be used: felt material shall be fibrous glass mat as specified in Appendix SectioA2.1 of AWWA C203.

   Adhesive-thermoplastic Resin Coating: Fed. Spec. L-C-530, Type I.

   Thermosetting Epoxy Coating: Fed. Spec. L-C-530, Type II.

   Field-applied plastic tape material used on pipe joints and for repairing damaged areas of shop-applied coatings, Fed. Spec. L-T-1512, Type I, 10 mils nominal thickness for pipe joints, and Type II, 20 mils nominal thickness for coating repairs.

3. Holiday Inspections: Procedure for holiday inspection: Holiday inspection shall be conducted on all coatings to determine the presence and number of discontinuities in those coatings referenced in 2.6/B - 1, 2, 3, and 4 using a Tinker & Rasor model AP/W Holiday Detector. Holiday inspection shall be performed in a manner spelled out in the Tinker & Rasor operating instructions and at a voltage level recommended by the coating manufacturer or applicable NACE International Standard such as RPO 274-93 or RPO 490-90 in the case thermosetting epoxy coating. Holiday Detectors shall be calibrated and supplied with a certificate of calibration from the factory. A calibration of the Holiday Detector shall be performed once every 6 months to verify output voltages are true and correct.

4. Fittings:

   i. Butt weld fittings, wrought steel, ANSI B16.9.
   j. Socket weld and threaded fittings forged steel, ANSI B16.11.
   k. Grooved End: Ductile iron (ASTM A536, Grade 65-45-12), malleable iron (ASTM A47, Grade 32510), or steel (ASTM A53, Type F or Type E or S, Grade B).

5. Joints: Welded, ANSI B31.8.

B. FUEL GAS PIPING

1. Pipe: Black steel, ASTM A53, Schedule 40.

2. Nipples: Steel, ASTM A733, Schedule 40.

3. Fittings:

   a. Sizes 2 inches under ANSI B 16.3 threaded malleable iron.
   b. Over 2 inches and up to 4 inches ANSI B16.11 socket welded.
   c. Over 4 inches ANSI 16.9 butt welded.

4. Joints: Provide welded or threaded joints.

C. EXPOSED FUEL GAS PIPING

1. Finished Room: Use full iron pipe size chrome plated brass piping for exposed fuel gas piping connecting fixtures, casework, cabinets, equipment and reagent racks when not concealed by apron including those furnished by the Government or specified in other sections.

   a. Pipe: Fed. Spec. WW_P_351, standard weight.
   b. Fittings: ANSI B16.15 cast bronze threaded fittings with chrome finish, (125 and 250).
   c. Nipples: ASTM B 687, Chromium-plated.
   d. Unions: 2 inches and smaller Mss SP-72, SP-110, Brass or Bronze threaded with chrome finish. Unions 2_1/2 inches and larger shall be flange type with approved gaskets.
   e. Valves: Mss SP-72, SP-110, Brass or bronze with chrome finish.

2. Unfinished Rooms, Mechanical Rooms and Kitchens: Chrome_plated brass piping is not required. Paint piping systems as previously specified.

D. VALVES

1. Ball Valve: Bronze body, rated for 1025 kPA at 185°C (150 psi at 365°F), 1725 kPa at 121°C (250 psi at 250°F), reinforced TFE seat, stem seal and thrust washer; end entry, threaded ends, UL-listed for natural or LP gas shut off service when used on those services.

2. Gas Vent Cocks: Type 701: Bronze body, tee handle, rated for 205 kPa at 38°C (30 psi at 100°F), ground plug, rated for tight shut-off on fuel gas service.

E. WATERPROOFING

1. Provide at points where pipes pass through membrane waterproofed floors or walls in contact with earth.

2. Floors: Provide cast iron stack sleeve with flashing device and a underdeck clamp. After stack is passed through sleeve, provide a waterproofed caulked joint at top hub.

3. Walls: See detail shown on drawings.

F. STRAINERS

1. Provide on high pressure side of pressure reducing valves, on inlet side of indicating and control instruments and equipment subject to sediment damage and where shown on drawings. Strainer element shall be removable without disconnection of piping.

2. Gas Lines: "Y" type with removable mesh lined brass strainer sleeve.

3. Body: Smaller than 3 inches, brass or bronze; 3 inches and larger, cast iron or semi_steel.

G. DIELECTRIC FITTINGS

1. Provide dielectric couplings or unions between ferrous and non_ferrous pipe.

H. GAS EQUIPMENT CONNECTORS

1. Flexible connectors with teflon core, interlocked galvanized steel protective casing, AGA certified design.

I. REGULATORS

1. Provide all pressure regulators for the project. Contractor shall be responsible for providing regulators properly selected for pressure, flow, and location. All regulators shall be field adjustable. All regulators shall be vented type. Regulators installed inside buildings shall have vent piping extended to the exterior of the building.

III. EXECUTION

A. INSTALLATION

1. General: Comply with the International Fuel Gas Code and the following:

   a. Install branch piping for fuel gas and connect to all fixtures, valves, cocks, outlets, casework, cabinets and equipment, including those furnished by the Government or specified in other sections.
   b. Pipe shall be round and straight. Cutting shall be done with proper tools. Pipe, shall be reamed to full size after cutting.
   c. All pipe runs shall be laid out to avoid interference with other work.
   d. Install valves with stem in horizontal position whenever possible. All valves shall be easily accessible.
   e. Install union and shut-off valve on pressure piping at connections to equipment.
   f. Pipe Hangers, Supports and Accessories:
      1) All piping shall be supported per the International Fuel Gas Code, Chapter No. 4.
      2) Shop Painting and Plating: Hangers, supports, rods, inserts and accessories used for Pipe supports shall be shop coated with zinc Chromate primer paint. Electroplated copper hanger rods, hangers and accessories may be used with copper tubing.
      3) Floor, Wall and Ceiling Plates, Supports, Hangers:
         a) Solid or split unplated cast iron, chrome plated in finished areas.
         b) All plates shall be provided with set screws.
         c) Pipe Hangers: Height adjustable clevis type.
         d) Adjustable Floor Rests and Base Flanges: Steel.
         e) Concrete Inserts: "Universal" or continuous slotted type.
         f) Hanger Rods: Mild, low carbon steel, fully threaded or Threaded at each end with two removable nuts at each end for positioning rod and hanger and locking each in place.
         g) Riser Clamps: Malleable iron or steel.
         h) Rollers: Cast iron.
         i) Self-drilling type expansion shields shall be "Phillips" type, with case hardened steel expander plugs.
         j) Miscellaneous Materials: As specified, required, directed or as noted on the drawings for proper installation of hangers, supports and accessories.
   g. Install cast chrome plated escutcheon with set screw at each wall, floor and ceiling penetration in exposed finished locations and within cabinets and millwork.
   h. Penetrations:
      1) Fire Stopping: Where pipes pass through fire partitions, fire walls, smoke partitions, or floors, install a fire stop that provides an effective barrier against the spread of fire, smoke and gases. Completely fill and seal clearances between piping and openings with the fire stopping materials.
      2) Waterproofing: At floor penetrations, completely seal clearances around the pipe and make watertight with appropriate sealant.

2. Piping shall conform to the following:

   a. Fuel Gas:
      1) Entire fuel gas piping installation shall be in accordance with requirements of NFPA 54.
      2) Provide fuel gas piping with plugged drip pockets at low points.

B. CLEANING OF SYSTEM AFTER INSTALLATION

1. Clean all piping systems to remove all dirt, coatings and debris.

C. TESTS

1. General: Test system either in its entirety or in sections after system is installed and cleaned.

2. Test shall be made in accordance with Section 406 of the International Fuel Gas Code. The system shall be tested at a minimum of 1.5 times maximum working pressure, but not less than 30 psig (20 kPa) gage).

PLUMBING

I. GENERAL

A. DESCRIPTION

1. Furnish all labor and materials as hereinbefore specified, indicated or reasonably implied for the complete installation of the plumbing systems.

II. MATERIALS

A. FLOOR DRAINS

1. All floor drains shall be constructed of cast iron and shall be complete with clamping devices as required. Floor drains (Marked "FD"): shall be bottom outlet with duracoated cast iron body with clamping collar and 6 inch diameter nickel bronze strainer adjustable vertically to floor level, with square perforations and vandal proof screws. Refer to fixture schedule for specific types.

B. CLEANOUTS

1. Cleanouts shall be provided where shown on plans, at each change of direction of the building drain greater than 45 degrees and at or near the foot of each vertical waste or soil stack. Location of all cleanouts shall be same size as piping up to 4 inches. Larger pipes shall have 4 inch cleanouts unless noted otherwise. Every cleanout shall be installed so that the cleanout opens in the direction of flow of the drainage line or at right angles thereto. Floor cleanouts shall be adjustable type with double drainage flange and clamping collar (above grade installations) and 2 pound lead flashing, nickel bronze cover. Outside cleanouts shall be installed with cover, set flush with finished grade, or as detailed on plans.

C. FLASHING

1. Flash around all pipes passing through roof in connection with this contract with sheet lead, not less than 2-1/2 pound to the square foot, built 6 inches into the waterproofing, running 10 inches up the pipe and turned over into the pipe cavity. Flashing around roof drains shall be not less than 2-1/2 pound lead extending at least 12 inches from the drain rim into membrane waterproofing. Fasten flashing to drain clamp device making watertight durable joint.

D. EQUIPMENT FURNISHED BY OWNER AND/OR BY OTHER TRADES

1. This equipment and other miscellaneous equipment shall be furnished and set in place under other sections of these Specifications and/or by the Owner, unless specified otherwise. Plumbing Contractor shall provide necessary rough-in required for the equipment and shall completely connect all plumbing services for this equipment providing cut-off valves and unions for each plumbing supply service to each piece of equipment. It is the obligation of the Plumbing Contractor to obtain correct rough-in dimension plans for this equipment as well as the equipment furnished under this contractor. The various Equipment Contractors shall provide access holes for service lines that enter his equipment. This work to be performed on the job site, as necessary. Plumbing Contractor shall furnish and install escutcheons, locknut type, at these locations.

E. PLUMBING FIXTURES

1. Plumbing Contractor shall furnish and install all plumbing fixtures shown on accompanying drawings. Refer to both plumbing and architectural drawings and provide all fixtures shown on either. Fixtures shall be complete with all necessary brass and accessories required for a complete installation including traps, escutcheons, angle supplies, basin cocks, etc. All fixtures shall be new and must be delivered to the building properly crated in perfect condition. All brass must be of the best quality, lightweight goods will not be accepted. All brass pipe shall be seamless brass tubing and nipples shall be extra heavy. All fittings and trim shall be chromium plated heavy brass unless otherwise specified. "P" traps shall be cast brass with cleanouts. All exposed piping shall be chromium plated. Provide cutoff valves at each fixture in both hot and cold water piping.

2. For the purpose of establishing type and class of fixtures required, the scheduled plate numbers have been taken from the indicated catalog. Approved equals shall be as follows: Fixtures: Kohler, Sloan, Briggs, American Standard, Crane, Eljer, Elkay, Dayton, Just or Universal Rundle. Flush Valves: Sloan, Zurn. Faucets: Elkay, Just, Chicago, Kohler, American Standard, Delta Commercial, Zurn, Speakman. Water Heaters: A.O. Smith, Ruud/Rheem, State, Bradford White. Drains: Wade, J.R. Smith, Zurn, Josam. Hose Bibbs: Josam, Woodford, J.R. Smith, Wade, Zurn.

III. EXECUTION

A. SURFACE CONDITIONS

1. Inspection:

   a. Prior to all work of this section, carefully inspect the installed work of adjacent trades and verify that all such work is complete to the point where fixture installation may properly commence. Verify that all hangers and fixture supports are properly installed to receive plumbing fixtures.

B. PLUMBING FIXTURE

Each plumbing fixture shall be fitted with all necessary and proper fittings, trimmings and operating devices, and shall be in perfect operating condition. Refer to architectural drawings for any other information that may be necessary or required in connection with plumbing installation. Before setting any fixtures, obtain the exact mounting height, as desired, from the Architect. Wall mounted water closets, urinals, and lavatories shall have a floor anchored carrier to fit in available wall space (coordinate requirements in drawings).

AIR DISTRIBUTION

I. GENERAL

A. GENERAL

1. Furnish and install all ducts for Air Conditioning, Heating, and Ventilating Systems as shown on the plans and as may be required to provide complete system. Ductwork shall be complete with grilles, vanes, flashings, hangers, flexible connections, splitters, manual dampers, fresh air inlets, louvers, reinforcing angles, etc. All ductwork shall be concealed and insulated as hereinafter specified.

B. COORDINATION

1. The General Contractor and HVAC Contractor shall coordinate the space clearances required for ductwork with the structure, ceilings, lights, etc. In some cases, due to space limitations, it may be necessary to re-size ductwork to meet the conditions of the project. Any re-sizing required shall be part of this project and done without any additional cost to the project. DO NOT MAKE DUCTWORK WITHOUT COORDINATION.

C. Sealing or flashing the building envelope due to penetrations in the building shall be the responsibility of the General Contractor.

II. MATERIALS

A. DUCT HANGERS AND SUPPORTS

1. All ductwork shall be properly braced to prevent rattling, breathing, or other unnecessary noise. No sharp edges or obstructions shall project into air stream.

B. LOW PRESSURE DUCTWORK

1. All ductwork shall be galvanized steel and shall be of gauges and construction as recommended by ASHRAE Guide and Data Book and SMACNA guidelines. Joints and reinforcing shall be as per ASHRAE Guide and Data Book and all slips shall be installed without edge of internal part of slip facing downstream. Construction standard of Article 110, of the National Board of Fire Underwriters Bulletin 90, latest edition, shall apply throughout. Flashings shall be of sheet copper and shall be furnished and installed around all outside openings used for ducts of fans and wherever required. Roof flashings shall extend at least 8 inches above roof. All ducts shall be straight and true and installed in a neat and workmanlike manner. All edges shall be straight and true and all bends shall be made with veined turns. Where long radius turns cannot be used, the contractor shall use square turns and use air splitters spaced not more than 3 inches center to center, and of a length so air will be properly distributed over ducts. All ducts shown are metal to metal dimensions. Mastic shall be applied to both male and female connections (all seams and joints) to make all duct joints air tight (applies to all ductwork; round or rectangular). Surplus mastic shall be removed. Tape and re-mastic joints if necessary. Mastic (hard-cast or equivalent duct sealer : tape not acceptable) shall be applied to the joints during assembly so that sealant is on all mating surfaces of the joint.

2. Exposed ductwork shall be double wall spiral pipe, solid inner liner, 1" thick insulation, primed and painted color as selected by Architect. Hang from aircraft cable (prime/paint all hangers and supports).

C. DUCT ACCESSORIES

1. Dampers of the fusible link operated type shall be provided in all ductwork passing through floor or fire walls. Provide quadrant or adjustable splitters and mark shaft to give position of splitter damper in duct. Provide vanes behind every supply grille or diffuser. Splitters shall be provided where shown on plans and where located in concealed non-accessible space provided Young Regulators to operate splitter. Vanes shall be Tuttle and Bailey "Ducturns", Barber-Coleman, Uniflo, or equivalent. Shop fabricated vanes will be acceptable. All dampers shall be constructed of 14 gauge steel.

D. PRE-INSULATED FLEXIBLE DUCT

1. Flexible duct shall be rated for a maximum pressure of 16 inches (4-10 inches I.D.) or 10 inches (12-16 inches I.D.) water column positive pressure and 2 inches water column maximum negative pressure and 6000 FPM maximum velocity and listed by Underwriters Laboratories, Inc. under UL Standard 181 as a Class 1 air duct complying with NFPA Standards 90A and 90B. Flexible air duct shall be factory-made and composed of an inner duct of woven and coated fiber glass fabric providing an air seal and permanently bonded to coated steel wire helix, a fiber glass insulating blanket with minimum R-8.0 value and low permeability outer vapor barrier of fiberglass reinforced metalized film laminate. Flexible air ducts shall be Thermaflex MK-C or Flexmaster type 4M.

III. INSTALLATION

A. DUCTS

1. Ductwork shall be constructed and installed as follows:

   a. Straight and smooth on inside with joints neatly finished unless otherwise directed.
   b. Duct panels through 48 inch dimension having acoustic duct liner need not be crossbroken or beaded.
   c. Crossbreak rectangular ducts and duct panels larger than 48 inches or bead 12 inches on center.
   d. Securely anchor ducts to building structure with specified duct hangers attached with screws.
   e. Brace and install ducts so they shall be free of vibration under all conditions of operation.
   f. Ducts shall not bear on the top of structural member.
   g. Make duct take-offs to branches, registers, grilles, and diffusers as detailed on Drawings.
   h. Properly flash where ducts protrude above roof.
   i. Install internal ends of slip joints in direction of flow. Make joints air tight using specified duct sealer.

2. Install flexible duct connections to each air handling unit.

3. Provide each take-off with an adjustable volume damper to balance that branch.

   a. Anchor dampers securely to duct.
   b. Install dampers in main ducts within insulation.
   c. Dampers in branch ducts shall fit against sheet metal walls, bottom and top of duct, and be securely fastened.
   d. Where concealed ceiling damper regulators are installed, provide a cover plate.

4. Install grilles, registers, and diffusers.

B. AIR TURNS

Permanently installed, consisting of curved metal blades or vanes arranged to permit air to make abrupt turn without appreciable turbulence, in elbows of supply and above ground return ductwork. Air turns shall be quiet and free from vibration when system is in operation.

TEMPERATURE CONTROLS

I. GENERAL

A. GENERAL REQUIREMENTS

1. All control systems shall be furnished complete and functioning. Coordinate all control work with the mechanical and electrical contractors. Contact the Test and Balance Contractor and notify them as to when controls work shall be installed. Test and Balance controller shall verify controls systems installation and proper operations.

B. DESCRIPTION OF WORK

1. Provide a complete system of "hard-wired" automatic controls (wireless unacceptable) as indicated herein. Control system shall consist of all thermostats, sensors, actuators, operators, wiring, switches, relays and control panels necessary to accomplish the control sequence specified herein.

C. RELATED WORK IN OTHER SECTIONS

1. For extent of power wiring and connection to mechanical equipment under Electrical Work, refer to Electrical drawings and specifications. For control devices furnished with equipment, refer to equipment specifications and schedules. Any controls equipment not specifically called for elsewhere shall be provided by Controls Contractor. All control wiring shall be done by Controls Contractor. All power for control devices such as actuators, operators, fire/smoke dampers, control dampers, etc. shall be furnished, installed and wired by the Controls Contractor. Controls Contractor may use 24 VAC or 120 VAC for the control system. The controls contractor shall be responsible for obtaining the necessary power and pay all costs associated with obtaining power to controls and controls equipment. All interior control wiring shall be installed in galvanized EMT conduit. The last 6 inches at connection to equipment shall be flexible metal conduit. All control wiring on exterior of building shall be in Seal-Tite conduit and/ or Liquid Tight flexible conduit. All control wiring shall be furnished and installed by this contractor.

2. Installing Contractor (HVAC Contractor or subcontractor under the HVAC Contractors) shall maintain adequate automatic control personnel on his payroll to provide back-up project control service on the automatic control system provided under this contract.

3. The entire control system shall be furnished by a single source manufacturer who shall be responsible for the entire system. The installation shall be by technicians employed by the controls system manufacturer.

II. PRODUCTS

A. WIRING

1. Factory mount and wire HVAC equipment controls. Mount electrical components in control box with removable cover. Provide clearance for access to controls (36 inch clearance).

2. Provide terminal strip(s) for field wiring of thermostat, communications and power source. DO NOT USE WIRE NUTS IN JUNCTION BOX.

3. All wiring shall comply with local and national electric codes and the manufacturer's published installation manual.

4. Provide terminal strip(s) for field wiring of air conditioning unit input connections, duct temperature sensor, velocity sensor, communications, time clock, bypass damper motor and power wiring, etc. Do not use wire nuts on loose wire. All wire shall be in conduit, flexible conduit or wiring harness.

B. THERMOSTATS

1. Provide fully automatic room-type electronic programmable thermidistat as indicated on plans to cycle outdoor unit on cooling cycle and heating cycles as required to maintain space conditions. Thermostat shall have the following features.

   a. Designed for use with the type of system used.
   b. "Auto-On" fan selector switch for constant or automatic fan operation.
   c. "Auto-Off" selector switch to energize unit to fully automatic change-over from heating to cooling mode.
   d. Temperature selector switch with concealed screw-type maximum set points for heating and cooling mode.
   e. Thermostat shall be programmable for automatic temperature set-up or setback for occupied and unoccupied times minimum two per day.
   f. Shall have an LED or LCD read out display.
   g. Battery back-up should loss of building power occur.
   h. Button type or touch sensitive keypad for data entry in to the thermostat.
   i. Thermostat range of operation shall be 55 degrees Fahrenheit - 85 degrees Fahrenheit in heating or cooling mode.
   j. Adjustable humidity setpoint.

C. ADDITIONAL CONTROLS

1. Contractor to provide all controls/controllers required to accomplish controls sequence. Any hand held controllers, software or software licensing required to operate controls system shall be furnished to the owner at substantial completion and shall be included as a part of owner training.

III. EXECUTION

A. INSTALLATION

ELECTRICAL, shall be responsible for point to point wiring of all starters and starting switches not factory installed in the HVAC equipment. Install all components of control systems under this Section using experienced control mechanics, all in the regular employ of the Installing Contractor, or the apparatus manufacturer.

B. WIRING

1. Install all control, pilot circuit and interlock wiring, including wiring through interposed safety or other auxiliary control devices within the confines of the HVAC equipment only. Wiring of thermostats shall be by the HVAC Contractor.
2. All wiring shall conform to the Local and National Electrical Codes.
3. All control and interlock wiring shall be fused at conductor capacity as shown in the National Electrical Code.
4. No splices will be allowed except at junction boxes and control centers.
5. All wires to each control device must be different colors. All wires to each device must be laced or tied at point of entry into control panel and tagged as to its point of origin.
6. All wires shall be run directly from controller or controlled device to control center. There shall be no looping of wires from one device to another external to the control centers.
7. Control voltage shall be a maximum of 120-volt, unless otherwise indicated herein.
8. Control or interlock wiring shall not be run in conduit with any power wiring other than that serving the equipment controlled.
9. Refer to Electrical Specifications, for extent of work under that Division. Provide other wiring systems required to accomplish the work of this Section, following requirements of Electrical Specifications for products and execution.
10. Wiring connection to terminal posts shall be made by means of compression type lugs. Wire splices shall be made with sketch locks.
11. Safety devices in motor control circuits shall be wired to interrupt the holding coil circuit regardless of the position of any selector switches in the circuit.
12. Control circuit conductors shall be sized for a maximum voltage drop of 10 percent of the circuit voltage.
13. All electrical power wiring shall conform in all respects with the provisions of the National Electrical Code.
14. Provide all necessary contactors, switches, transformers to accomplish operating sequences.

1 MECHANICAL SPECIFICATIONS
N.T.S.

2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201 ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

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STATE OF LOUISIANA
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M4.2

11 OF 12 SHEETS

AIR CONDITIONING SPECIALTIES

A. PACKAGED ROOFTOP KITCHEN UNIT (DOAS)

1. Certifications:
   a. Entire unit shall be ETL Certified per U.L. 60335-2-40 and bear an ETL sticker.
   b. Coils shall be Recognized Components for ANSI/UL 1995, CAN / CSA C22.2 No 236.05
   c. Indirect gas-fired furnace shall be ETL Certified as a component of the ERU. Indirect gas-fired furnace shall be an ETL Recognized Component of the ERU per ANSI Z83.8.

2. Unit shall be fully assembled at the factory and consist of an insulated metal cabinet, evaporator coil, hot gas reheat coil, indirect gas-fired furnace, packaged DX system, motorized dampers, motorized recirculating damper, filter assembly intake air, supply air blower assembly, and an electrical control center. All specified components and internal accessories factory installed are tested and prepared for single-point high voltage connection except with electric post heat and exhaust fan only power which have dual point power.

3. Cabinet
   a. Materials: Formed, double wall insulated metal cabinet, fabricated to permit access to internal components for maintenance.
      1) Unit's exterior shall be supplied from the manufacturer using G60 galvaneal steel with proprietary pre-painted material in the following finish color: Concrete Gray-RAL 7023. This has been subjected to a salt spray test per ASTM-B117 and evaluated using ASTM-D714 and ASTM-D610 showing no observable signs of rust or blistering until reaching 2,500 hours. This is Greenheck's Permatector™ option. Uncoated galvanized steel exterior is not acceptable.
      2) Internal assemblies: 24-gauge, galvanized (G90) steel except for motor supports which shall be minimum 14 gauge galvanized (G90) steel.
   b. Cabinet Insulation: Comply with NFPA 90A and NFPA 90B and erosion requirements of UL 181.
      1) Materials: Rigid urethane injected foam. Foam board not acceptable.
         Thickness: 2 inch (50.8 mm)
         Thermal Resistance R16
         Thermally broken
         Meets UL94HF-1 flame requirements.
         Location and application: Full coverage of entire cabinet exterior to include walls, roof of unit, unit base, and doors.
      2) Materials: Fiberglass insulation. If insulation other than fiberglass is used, it must also meet the Fire Hazard Classification shown below.
         Thickness: 2 inches (50.8 mm)
         Thermal Resistance R8
         Fire Hazard Classification: Maximum flame spread of 25 and smoke developed of 50, when tested in accordance with ASTM C 411.
         Location and application: Divider panels between outdoor air and return air/exhaust air streams.
   c. Roof Insulation: 2-inch (50.8 mm) fiberglass located above the 1 inch (25.4 mm) foam panel.
   d. Access panels / doors: Unit shall be equipped with insulated, hinged doors or removable access panels to provide easy access to all major components. Doors and access panels shall be fabricated of 18-gauge galvanized G90 steel or painted galvannealed steel.
   e. Supply Air blower assemblies: Blower assembly shall consist of an electric motor and direct-drive fans. Assembly shall be mounted on heavy gauge galvanized steel rails and further mounted on 1.125-inch-thick neoprene vibration isolators. Blower motors shall be capable of continuous speed modulation and controlled by a VFD.
   f. Evaporator Coil: Evaporator coil shall be (silver) soldered or brazed into the compressed refrigerant system. Coil shall be constructed of copper tubing, permanently bonded to aluminum fins and enclosed in a galvanized steel frame. If two compressors are used as components of the unit, then the evaporator coil shall be of "interlaced" configuration, permitting independent operation of either compressor without conflict with the other compressor.
   g. Control panel / connections: Units shall have an electrical control center where all high and low voltage connections are made. Control center shall be constructed to permit single-point high voltage power supply connections.
   h. Condensate drain pan: Drain Pan shall be an integral part of the unit whenever a cooling option is included. Pan shall be formed of welded austenitic stainless steel sheet material and provided with a welded stainless steel drain connection at the front for connection to a P trap. Drain pan shall be sloped in two directions to provide positive draining and drain connector shall be sealed at penetration through cabinet wall.
   i. P trap: If the unit is equipped with a condensate drain pan, contractor shall provide, or fabricate, and install an appropriate P trap, in accordance with all local and area codes and Best Practices.
   j. Reheat coil with factory installed modulating hot gas reheat valve.
   k. Indirect gas furnace
      1) Shall be ETL Certified as a component of the unit.
      2) Shall have an integral combustion gas blower.
      3) Shall be ETL Certified for installation downstream of a cooling coil.
      4) Shall have fault sensors to provide fault conditions to optional digital controller or building controls.
      5) Shall have 4-pass tubular heat exchangers, constructed of type 409 stainless steel. Heat exchanger tubes shall be installed on the vest plate by means of swaged assembly, welded connections are not acceptable. Heat exchanger tubes shall be supported by a minimum of two fabricated assemblies that support the tubes and also permit expansion and contraction of the tubes.
      6) Heat exchanger shall have a 25-year extended warranty.
      7) Furnace control shall be 4:1 Modulating.
      8) Shall be encased in a weather-tight metal housing with intake air vents. Large, metal lift-off door shall provide easy access to the enclosed vest plate, control circuitry, gas train, burner assembly and exhaust blower.
      9) Shall have solid state controls permitting stand-alone operation or control by building controllers.
   l. Packaged DX System: Unit shall have an integral compressor(s) and evaporator coil located within the weather-tight unit housing. Condenser coils shall be all-aluminum micro channel design appurtenant condenser fan assemblies shall be factory installed as integral subassemblies of the unit and mounted on the unit's exterior. Lead condenser fan(s) will have an electronically commutated (EC) motor that will modulate to maintain a head pressure set point.] Motors shall be UL Recognized and CSA Certified. The lead refrigerant compressor shall be inverter hermetic scroll-type. Additional compressor shall be single stage hermetic scroll-type paired in tandem with lead inverter compressor. Compressors shall be equipped with liquid line filter drier, electronic expansion valves (EEV) or thermostatic expansion valves (TXV) on non-inverter compressor circuits, manual reset high pressure and low-pressure cutouts and all appurtenant sensors, service ports, leak detection sensors and safety devices. Compressed refrigerant system shall be fully charged with R-454B refrigerant. Compressors shall be mounted within an insulated access compartment and on a raised cabinet shelf to reduce sound and vibration. Each compressor shall be factory-equipped with an electric crankcase heater to boil off liquid refrigerant from the oil.
   m. Condenser Fans: Fan blades must be constructed of aluminum or a composite material and have a geometry designed and documented to reduce sound and energy when compared to a traditional rectangular blade fan. Traditional rectangular blade fans are not allowed due to increased noise generated and increase power utilized. Condenser fan motors shall be three phase, external rotor, type 56 frame, open air over and shaft up. Each condenser fan motor shall have a vented frame, rated for continuous duty and be equipped with an automatic reset thermal protector. Lead condenser fan(s) will have an electronically commutated (EC) motor that will modulate to maintain a head pressure set point.] Motors shall be UL Recognized and CSA Certified. Single condenser fan running at max RPM and design static pressure shall not exceed an A-weighted sound power level of 75 db at free inlet/outlet test conditions.
   n. Packaged DX Control and Diagnostics: The Packaged DX system shall be controlled by an onboard digital controller (DDC) that indicates both owner-supplied settings and fault conditions that may occur. The DDC shall be programmed to indicate the following faults:
      1) Global alarm condition (active when there is at least one alarm)
      2) Supply Air Proving alarm
      3) Compressor Trip alarm
      4) Compressor Locked Out alarm
      5) Supply Air Temperature Low Limit alarm
         i. Sensor #1 Out of Range (outside air temperature)
         ii. Sensor #2 Out of Range (supply air temperature)
         iii. Sensor #3 Out of Range (cold coil leaving air temperature)
   o. Motorized dampers / Intake Air, Motorized dampers of low leakage type shall be factory installed.
4. Blower
   a. Blower section construction, Supply Air: direct drive motor and blower shall be assembled on a 14-gauge galvanized steel platform and shall be equipped with 1.125-inch-thick neoprene vibration isolation devices.
   b. Blower assemblies: Shall be statically and dynamically balanced and designed for continuous operation at maximum rated fan speed and horsepower.
   c. Fan: Direct drive, airfoil plenum fan with steel wheel statically and dynamically balanced. Prop or belt-drive fan not acceptable due to low static capabilities.
   d. Blades: Painted steel blades only.
   e. Blower section motor source quality control: Blower performance shall be factory tested for flow rate, pressure, power, air density, rotation speed and efficiency. Ratings are to be established in accordance with AMCA 210, "Laboratory Methods of Testing Fans for Rating".
5. Motors
   a. General: Blower motors greater than 1/2 horsepower shall be "NEMA Premium" unless otherwise indicated. Compliance with EPAct minimum energy-efficiency standards for single speed ODP and TE enclosures is not acceptable. Motors shall be heavy-duty, permanently lubricated type to match the fan load and furnished at the specified voltage, phase and enclosure.
   b. Motors shall be 60 cycle, 3 phase 208 volts.
6. Unit Controls
   a. The unit shall be constructed so that it can function as a stand-alone heating and cooling system controlled by factory-supplied controllers, thermostats and sensors or it can be operated as a heating and cooling system controlled by a Building Management System (BMS). This unit shall be controlled by a factory-installed microprocessor programmable controller (DDC) that is connected to various optional sensors.
   b. Unit shall incorporate a DDC controller with integral LCD screen that provides text readouts of status. DDC controller shall have a built-in keypad to permit operator to access read-out screens without the use of ancillary equipment, devices or software. DDC controllers that require the use of equipment or software that is not factory-installed in the unit are not acceptable. Alarm readouts consisting of flashing light codes are not acceptable. Owner-specified ventilating conditions can be input by means of push buttons.
   c. Unit supply fan shall be configured for Constant Volume (ON/OFF).
   d. Unit exhaust fan shall be configured for
   e. Outside Air / Return Air damper control shall be field adjustable two-position.
   f. Economizer control shall be temperature.
   g. Variable Frequency Drive (VFD): unit shall have factory installed variable frequency drive for modulation of the exhaust air blower assembly. The VFD shall be factory-programmed for unit-specific requirements and shall not require additional field programming to operate.
   h. Airflow monitoring required in the outdoor airstreams.
   i. Unit shall be provided with a space thermostat measuring temperature.
7. Filters
   a. Unit shall have permanent 2-inch (50.8 mm) aluminum filters located in the outdoor air intake and shall be accessible from the exterior of the unit. MERV 8 disposable pleated filters shall be provided in the supply air stream. MERV 8 disposable pleated filters shall be provided in the supply final air stream.
8. Start-Up Service
   a. Engage a factory authorized service representative to perform startup service. Clean entire unit, comb coil fins as necessary, install clean filters. Measure and record electrical values for voltage and amperage. Refer to Division 23 "Testing, Adjusting and Balancing" and comply with provisions therein. Engage a factory authorized service representative to train owner's maintenance personnel to adjust, operate and maintain the entire unit.
9. Warranty
   a. Unit shall have 5-year parts and labor warranty on all components including compressor.

1 MECHANICAL SPECIFICATIONS
N.T.S.

2014 W. PINHOOK RD SUITE 200
LAFAYETTE, LOUISIANA 70508
(337) 984-8498 FAX (337) 984-8576

RCE PROJECT NO. 250059

USE AND INTERPRETATION OF THIS DRAWING

1. GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION, ARTICLE 1 AIA DOCUMENT A201 ARE PART OF THE CONTRACT DOCUMENTS AND DESCRIBE USE AND INTENT OF THIS DRAWING. THE CONTRACT DOCUMENTS INCLUDE NOT ONLY THE DRAWINGS, BUT ALSO THE OWNER-CONTRACTOR AGREEMENT, CONDITIONS OF THE CONTRACT, THE SPECIFICATIONS, ADDENDA, AND MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT. THESE CONTRACT DOCUMENTS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ANYONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. WORK NOT COMPLETELY DELINEATED HEREON SHALL BE CONSTRUCTED OF THE SAME MATERIALS AND DETAILED SIMILARLY AS WORK SHOWN MORE COMPLETELY ELSEWHERE IN THE CONTRACT DOCUMENTS.

2. BY USE OF THE DRAWINGS FOR CONSTRUCTION OF THE PROJECT, THE OWNER REPRESENTS THAT HE HAS REVIEWED AND APPROVED THE DRAWINGS, AND THAT THE CONSTRUCTION DOCUMENT PHASE OF THE PROJECT IS COMPLETE. THE CONTRACTOR REPRESENTS THAT HE HAS VISITED THE SITE, FAMILIARIZED HIMSELF WITH THE LOCAL CONDITIONS, VERIFIED FIELD DIMENSIONS AND CORRELATED HIS OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

3. THE CONTRACT SUM AND CONTRACT TIME MAY BE CHANGED ONLY BY CHANGE ORDER TO THE CONTRACTOR SIGNED BY THE OWNER AND THE ARCHITECT. ANY WORK PERFORMED IN VARIANCE WITH THE CONTRACT DOCUMENTS AND NOT COVERED BY THE ARCHITECT'S WRITTEN ORDER FOR A MINOR CHANGE IN THE WORK OR A CHANGE ORDER, WILL NOT BE ACCEPTED.

4. AS INSTRUMENTS OF SERVICE, ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY THE ARCHITECT ARE HIS PROPERTY. THEY ARE TO BE USED ONLY FOR THIS PROJECT AND ARE NOT TO BE USED ON ANY OTHER PROJECT. CHANGES TO THE DRAWINGS MAY ONLY BE MADE BY THE ARCHITECT. ANY SUBMISSION OR DISTRIBUTION WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT MAY BE CONSTRUED AS DEROGATION OF THE ARCHITECT'S COPYRIGHT OR OTHER RESERVED RIGHTS.

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IN
MECHANICAL ENGINEERING
5-20-26

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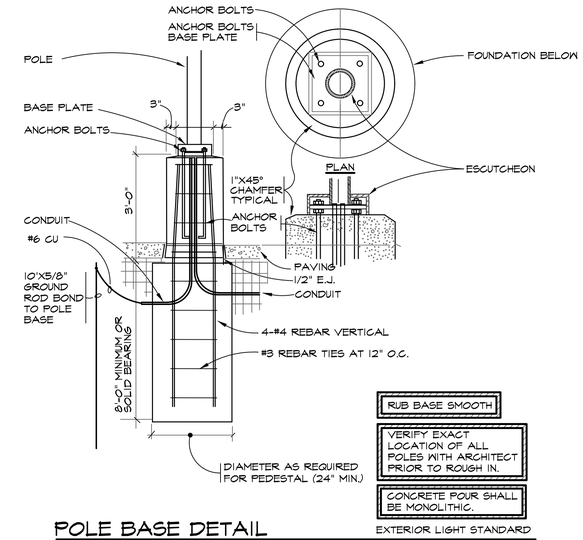
CHECKED	ABM
DATE	5-20-26
PROJECT NO.	1161-25

M4.3

12 OF 12 SHEETS



RUB BASE SMOOTH

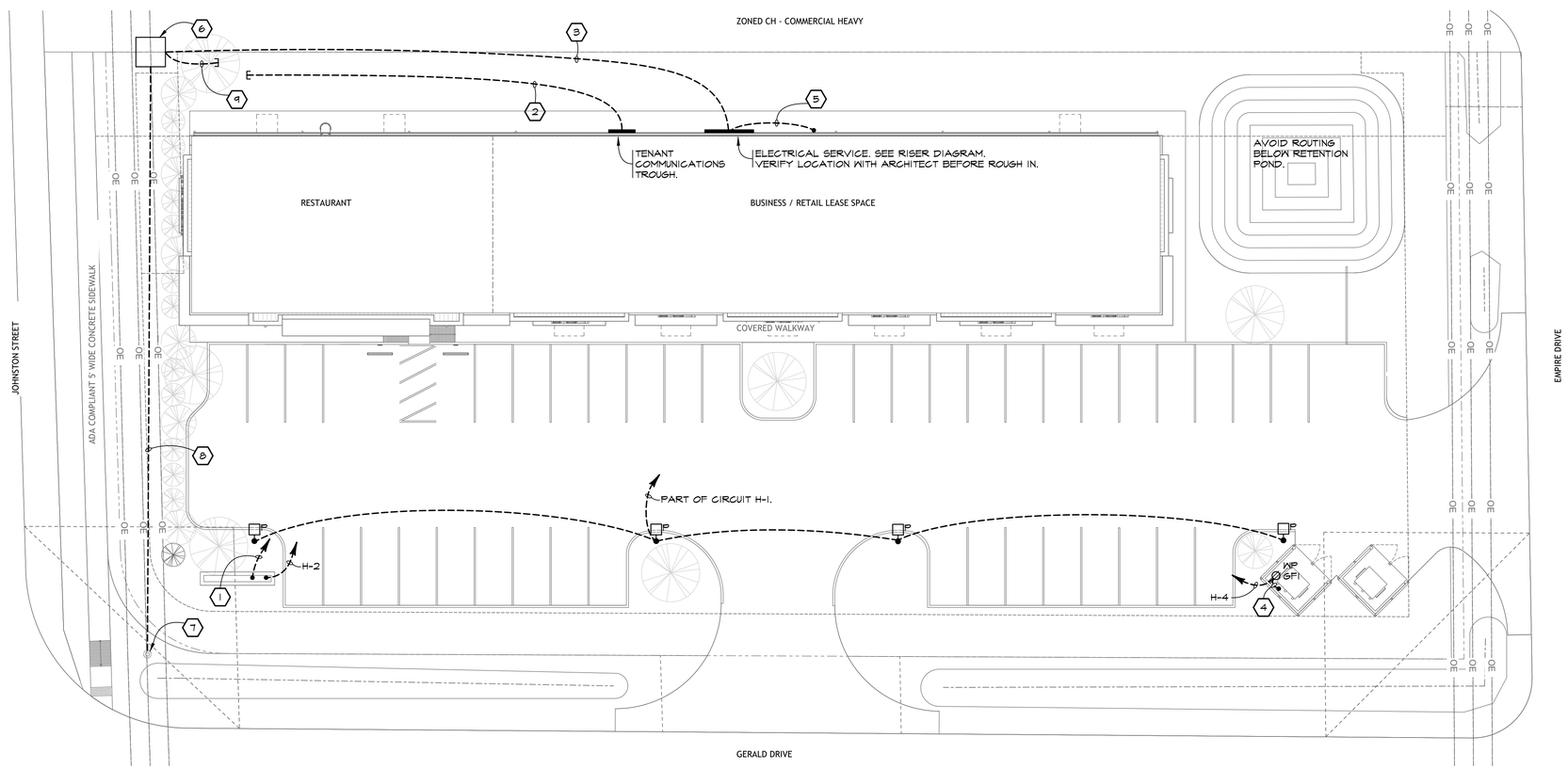
VERIFY EXACT LOCATION OF ALL POLES WITH ARCHITECT PRIOR TO ROUGH IN.

CONCRETE POUR SHALL BE MONOLITHIC.

EXTERIOR LIGHT STANDARD

POLE BASE DETAIL

NOT TO SCALE



ELECTRICAL SITE PLAN KEYNOTES:

1. 1"C WITH PULLSTRING TO ADJACENT COMMUNICATIONS TROUGH AT REAR EXTERIOR OF BUILDING.
2. 2"C WITH PULLSTRING FOR LUS FIBER USE. VERIFY ALL REQUIREMENTS WITH SAME.
3. UNDERGROUND SECONDARY. SEE RISER.
4. CONNECT TO HEAT TRACE CABLE.
5. STUB 2-3" CONDUITS OUT OF WIREWAY TO ADJACENT CLEAR WALL SPACE AND CAP 6" ABOVE SIDEWALK.
6. NEW 120/208 3Ø PAD MOUNT TRANSFORMERS BY LUS. CONTRACTOR TO PROVIDE AND INSTALL NEW 7'X7' CONCRETE PAD AND GROUND AS PER LUS SPECIFICATIONS. VERIFY EXACT LOCATION WITH LUS PRIOR TO ROUGH IN.
7. EXISTING LUS POLE. VERIFY EXACT LOCATION IN FIELD.
8. 2 NEW 4" CONDUITS WITH PULLSTRING FOR LUS USE. SET CONDUITS MINUMUM 42" BELOW GRADE WITH UTILITY EASEMENT. RISE UP POLE AT PROPERTY CORNER AS PER LUS REQUIREMENTS.
9. STUB TWO 3" CONDUITS OUT OF SECONDARY TRANSFORMER WINDOW.

ELECTRICAL SITE PLAN

REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
SCALE: 1/16" = 1'-0"

0 8 16 32 FT

LA One Call 811

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5/20/2026

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DATE	3-6-26
PROJECT NO.	1161-25

E1.0

1 OF 6 SHEETS

LIGHTING FIXTURE SCHEDULE

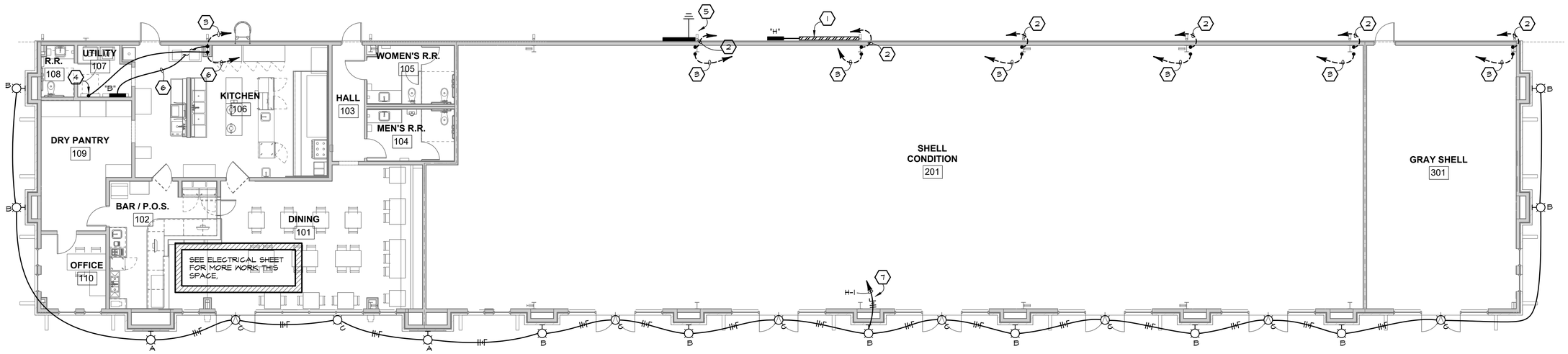
FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	WATTS	DESCRIPTION	REMARKS
A	SOLERA	SLM 60 20W LED 3520 4000K UNV WM OAL BG	37 WATTS	60" LINEAR WALL MOUNT	1, 2
B	SOLERA	SLM 36 20W LED 3520 4000K UNV WM OAL BG	37 WATTS	36" LINEAR WALL MOUNT	1, 2
C	LITHONIA	LDN6 AL02 15LM SWWI L06 AR LD WD MVOLT UGZ EL	19 WATTS	6" DOWNLIGHT	
D	ALCON	12345 P 40K 80CRI 60	25 WATTS	PENDANT	
E	LITHONIA	CPANL 2x2 33LM 40K	26.5 WATTS	2x2 PANEL	
F	LITHONIA	CPANL 2X2 24LM 40K	18.8 WATTS	2x2 PANEL	
G	LITHONIA	CSS L48 3000LM MVOLT MINI ZT 40K 80CRI	22.4 WATTS	4' STRIP LIGHT	
H	GOTHAM	EVO6 40/20 AR WD LSS MVOLT GZI	19.7 WATTS	6" DOWNLIGHT	
J	GOTHAM	EVO 4CC 40/10 AR WD LSS MVOLT GZI	8.8 WATTS	4" DOWNLIGHT	
K	LITHONIA	CPANL 2x4 60LM 40K	55.8 WATTS	2x4 PANEL	
L	EELP	DEM LED ACEM FG	12 WATTS	EMERGENCY LIGHTING	1, 2
P	LUMIS	PL 240 L1 L100 PYS 40K MVOLT PM WITH HAPCO SSA 250 4 4	61.4 WATTS	PARKING LOT POLE ASSEMBLY	
X	LITHONIA	LES 1 G EL N		SINGLE EXIT	
X3	LITHONIA	ELM2L M12		EMERGENCY WALL MOUNT FLOOD	

REMARKS
1. ARCHITECT TO SELECT FINISH.
2. VERIFY EXACT HEIGHT WITH ARCHITECT PRIOR TO ROUGH IN.

NOTES:
1. ALL FIXTURES ACCESSORIES NEEDED FOR PROPER INSTALLATION SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
2. EXACT PLACEMENT OF ALL EXTERIOR LIGHTING FIXTURES TO BE COORDINATED WITH ARCHITECT PRIOR TO INSTALL.
3. ANY FIXTURE AIMING SHALL BE AS PER ENGINEER IN FIELD.
4. CONTRACTOR TO PROVIDE AND INSTALL ANY AND ALL LOW VOLTAGE CONTROLS REQUIRED FOR DIMMING AND / OR OCCUPANCY SENSORS.

BLDG ELECTRICAL PLAN KEYNOTES:

1. ELECTRICAL SERVICE SEE RISER DIAGRAM. VERIFY LOCATION WITH ARCHITECT BEFORE ROUGH IN.
2. 2"C WITH PULLSTRING. STUB UP ADJACENT COLUMNS AS DIRECTED BY ARCHITECT DURING CONSTRUCTION. EXTEND TO BELOW NEW METER CENTER FOR FUTURE TENANT SERVICE. STUB IN SHELL SPACE SUCH THAT FIXTURE COLUMN WRAP WILL CONCEAL.
3. 1 1/4"C WITH PULLSTRING TO COMMUNICATIONS TROUGH ON EXTERIOR.
4. EXTEND 1 1/4"C WITH PULLSTRING TO THIS POINT 8" ABOVE ACCESSIBLE CEILING.
5. NEMA-3R TROUGH FOR TENANT COMMUNICATIONS CONDUITS. RUN #6 CU TO BUILDING GROUND BUSS. PROVIDE GROUND BUSS IN TROUGH.
6. EXTEND SERVICE FEEDER TO PANEL ABOVE CEILING. SEE RISER DIAGRAM.
7. INCLUDE ADDITIONAL UNSWITCHED HOT CONDUIT AND CONNECT TO BATTERY AT TYPE C FIXTURES.



OVERALL BLDG ELECTRICAL PLAN

REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
SCALE: 1/8" = 1'-0"

0 4 8 16 FT

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E2.0

2 OF 6 SHEETS

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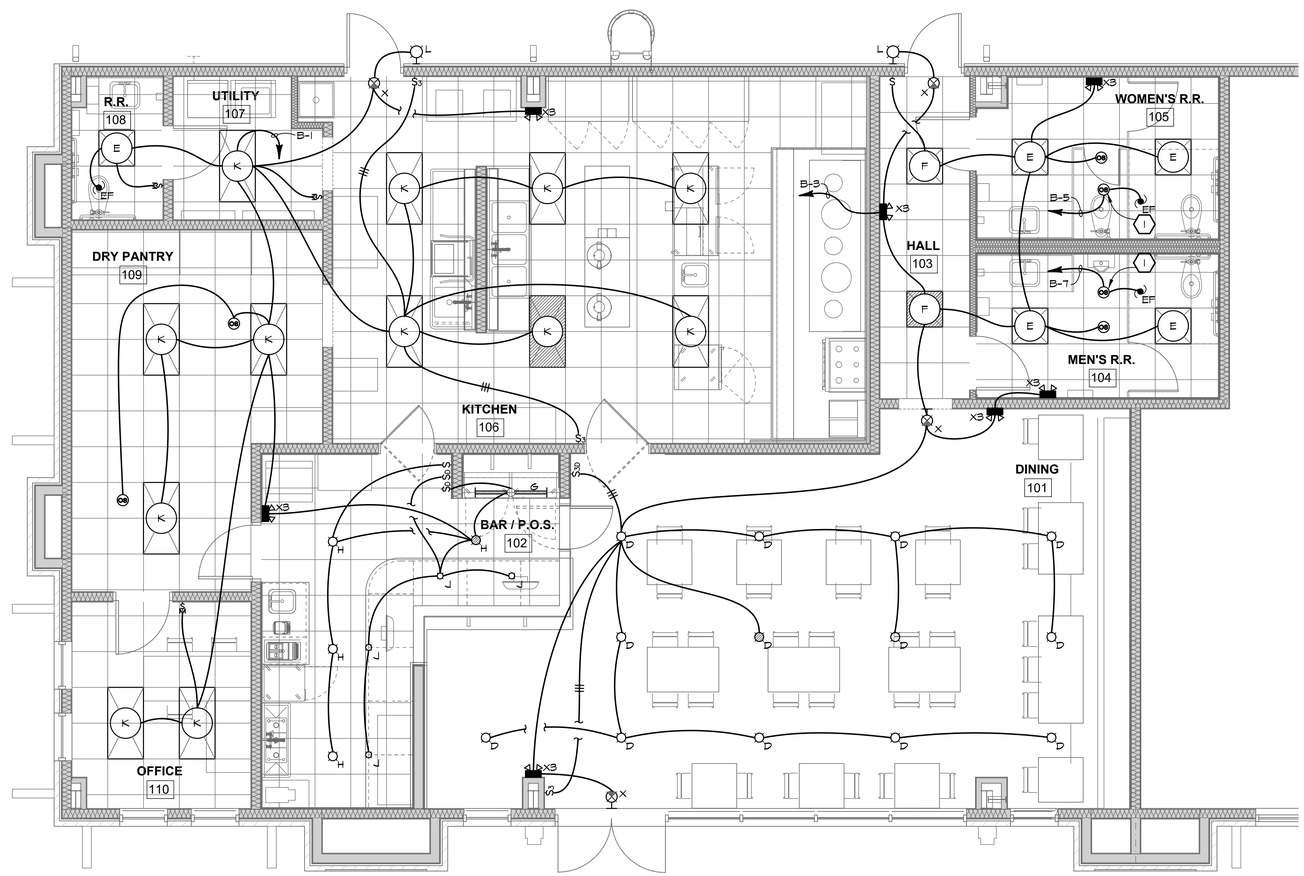

KEYNOTE:

1 1/4 HP RATED OCCUPANCY SENSOR.

LIGHTING PLAN

REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
SCALE: 1/2" = 1'-0"

0 2 4 8 FT

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3 OF 6 SHEETS

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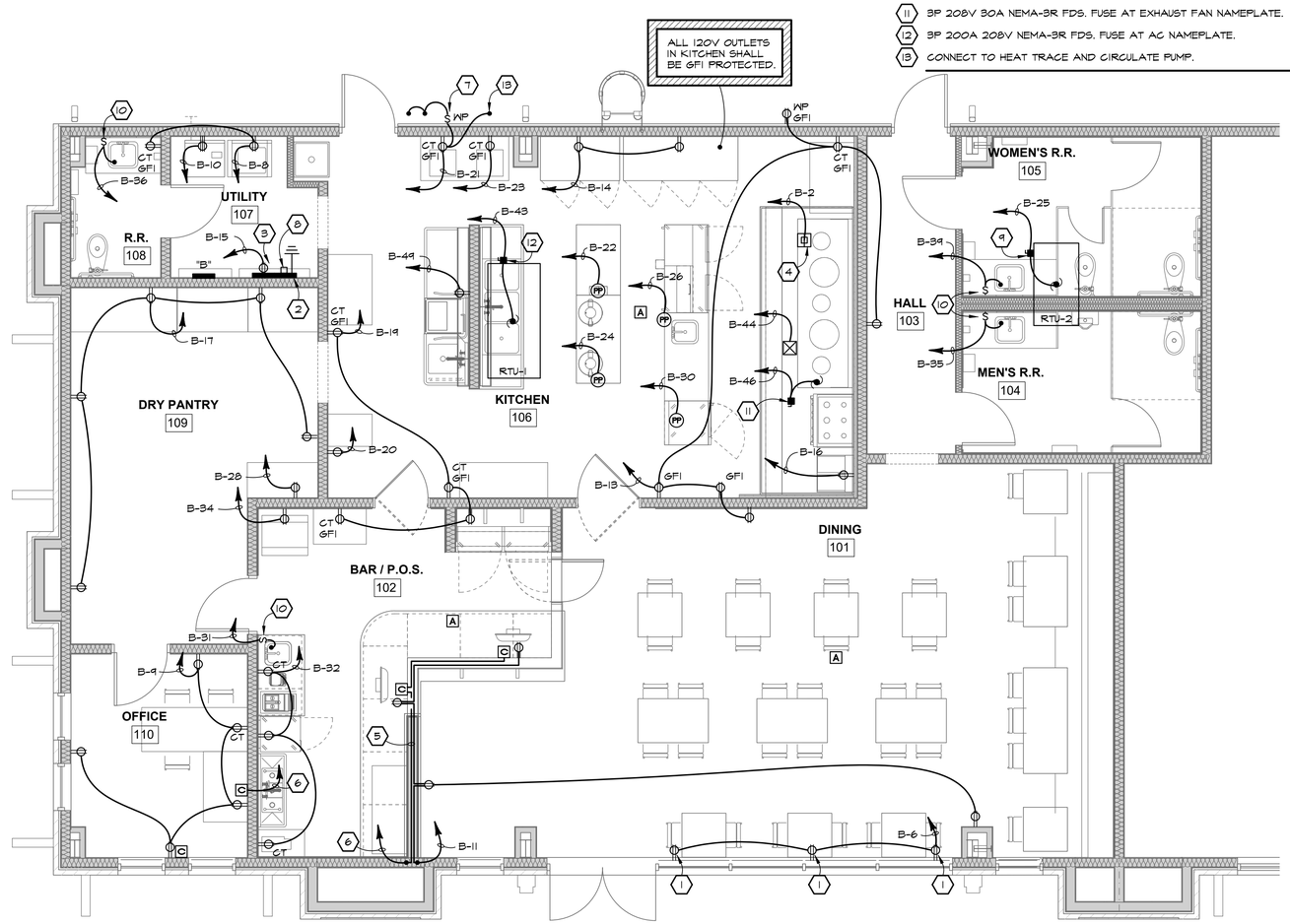
POWER PLAN KEYNOTES:

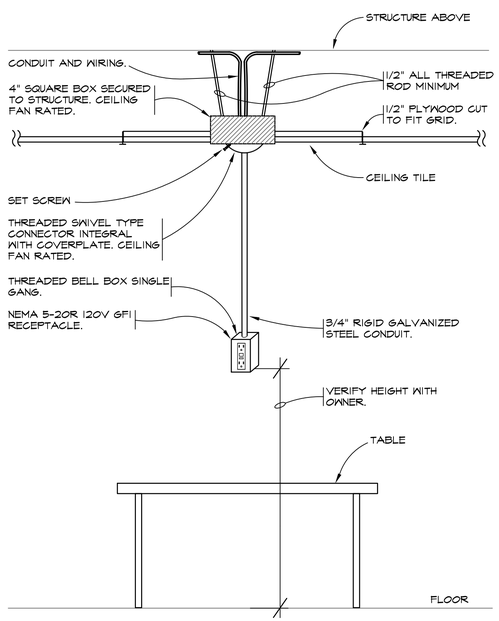
1. FLUSH MOUNT THIS OUTLET ON WALL 6" ABOVE TOP OF WINDOW.
2. 2' x 2' x 3/4" FIRE RETARDANT TELEPHONE BACKBOARD. RUN #6 CU TO BUILDING GROUND POINT. SET TOP 4" BELOW CEILING.
3. LOCATE THIS OUTLET UP AT BACKBOARD.
4. CONNECT TO HOOD SUPPLY FAN.
5. 3/4"C WITH TWO CAT 6 CABLES TO PATCH PANEL AT TELEPHONE BACKBOARD.
6. STUB 3/4"C TO ACCESSIBLE CEILING EXTEND PLENUM RATED CAT 6 CABLE TO PATCH PANEL AT TELEPHONE BACKBOARD AND TERMINATE.
7. CONNECT TO GAS WATER HEATER.
8. WALL MOUNT CAT 6 PATCH PANEL. MOUNT TO BACKBOARD.
9. 3P 60A 208V NEMA-3R FDS. FUSE AT AC UNIT NAMEPLATE.
10. 2P 30A SWITCHES AS DISCONNECT MEANS TO WATER HEATER. VERIFY EXACT LOCATION WITH PLUMBER PRIOR TO ROUGH IN.
11. 3P 208V 30A NEMA-3R FDS. FUSE AT EXHAUST FAN NAMEPLATE.
12. 3P 200A 208V NEMA-3R FDS. FUSE AT AC NAMEPLATE.
13. CONNECT TO HEAT TRACE AND CIRCULATE PUMP.



POWER PLAN

REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
SCALE: 1/2" = 1'-0"

0 2 4 8 FT



PENDANT RECEPTACLE DETAIL (PP)

NOT TO SCALE

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5/20/2016

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PROJECT NO.	1161-25

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4 OF 6 SHEETS

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SYMBOL SCHEDULE (APPLIES TO ALL SHEETS)

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" AFF IVORY IN COLOR, UNLESS OTHERWISE NOTED.
	SPECIAL PURPOSE RECEPTACLE, AS NOTED
	QUADRUPLEX OUTLET NEMA 5-20R MOUNTED AT 18" AFF UNLESS OTHERWISE NOTED.
C	RJ45 COMPUTER OUTLET 18" AFF UNLESS OTHERWISE NOTED STUB AND TURN INTO ACCESSIBLE CEILING WITH 3/4" C. EXTEND PLENUM RATED CAT 6 CABLE TO PATCH PANEL AT TELEPHONE BACKBOARD AND TERMINATE ON BOTH ENDS.
PP	PENDANT MOUNTED OUTLET. SEE DETAIL.
A	ETHERNET ROUGH IN FOR WIRELESS ACCESS POINT. EXTEND PLENUM RATED CAT 6 CABLE TO PATCH PANEL AT TELEPHONE BACK BOARD AND TERMINATE ON BOTH ENDS. PROVIDE MALE RJ45 ON FIELD.
	PANELBOARD, FLUSH MOUNTED UNLESS INDICATED OTHERWISE.
J	J-BOX
	ELECTRIC MOTOR.
	DISCONNECT SWITCH.
	LIGHTING FIXTURE, AS NOTED.
	LIGHTING STRIP FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	RECESSED DOWNLIGHT
	WALL MOUNTED LIGHTING FIXTURE.
	EXIT LIGHT
	EXIT LIGHT, WALL MOUNTED
	EMERGENCY LIGHT
$	TOGGLE SWITCH, MTD. 46" AFF TO CENTER
$3	THREE-WAY SWITCH, MTD. 46" AFF TO CENTER
$4	FOUR-WAY SWITCH, MTD. 46" AFF TO CENTER.
$D	DIMMER SWITCH.
$K	KEYED SWITCH
$M	MOTOR RATED TOGGLE SWITCH WITH THERMAL PROTECTION.
$P	SWITCH WITH PILOT LIGHT
	OCCUPANCY SENSOR SWITCH.
OS	CEILING MTD. OCCUPANCY SENSOR AND ASSOCIATED POWER PACK.
	INDIVIDUAL CIRCUIT RUN DIRECTLY TO PANEL FROM THIS POINT. (DO NOT COMBINE HOMERUNS).
	CONDUIT CONCEALED IN WALL OR CEILING.
	CONDUIT RUN BELOW FLOOR OR SLAB.
CT	COUNTERTOP, MTD. 4" CL ABOVE COUNTER BACKSPLASH. MOUNTED HORIZONTALLY.
WP	WATERPROOF
GFI	GROUND FAULT CIRCUIT INTERRUPTER WEATHER RESISTANT TYPE DEVICE WHERE LOCATED IN DAMP OR WET LOCATIONS.
FDS	FUSED DISCONNECT SWITCH
VOJ	VERIFY ON JOB.
CU	COPPER
AFF	ABOVE FINISHED FLOOR.
NFS	NON-FUSED SWITCH.
MTD	MOUNTED
IG	ISOLATED GROUND DEVICE.
TYP	TYPICAL
RGS	RIGID GALVANIZED STEEL

NOT ALL SYMBOLS APPLY TO EVERY PROJECT. ALL DIMENSIONS TO MIDDLE OF DEVICE, UNLESS INDICATED OTHERWISE ON FLOOR PLAN.

GENERAL NOTES: (APPLIES TO ALL SHEETS)

1. ALL CONDUCTORS SHALL BE COPPER.
2. ALL WIRING SHALL BE IN CONDUIT, UNLESS SPECIFICALLY INDICATED OTHERWISE.
3. NO MORE THAN THREE PHASE (HOT) CONDUCTORS SHALL BE RUN IN A SINGLE RACEWAY. WHERE MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE IN A SINGLE RACEWAY (PHASE PLUS NEUTRALS). THESE CONDUCTORS SHALL BE DERATED IN ACCORDANCE WITH NEC TABLE 310.15 (B) (2) (a).
4. MAXIMUM LENGTH OF FIXTURE WHIPS SHALL BE 6'-0".
5. MC CABLE IS NOT AN APPROVED WIRING METHOD.
6. PVC CONDUIT SHALL NOT BE USED ABOVE GRADE. TRANSITION FROM PVC TO RIGID 6" BELOW SLAB. PENETRATE SLAB WITH RIGID CONDUIT A MINIMUM OF 3".
7. NO CONDUIT SHALL BE RUN IN SLABS.
8. CONTRACTOR SHALL HANG ALL FIXTURES FROM STRUCTURE WITH MINIMUM OF TWO HANGERS.
9. CONTRACTOR SHALL VISIT SITE PRIOR TO BID TO EXAMINE EXISTING CONDITIONS, SAME SHALL BE CONSIDERED IN BID. CONTRACTOR SHALL INFORM THIS OFFICE PRIOR TO LAST ADDENDUM IN THE EVENT THAT EXISTING CONDITIONS HINDER WORK CALLED FOR ON DRAWINGS.
10. CONTRACTOR SHALL CUT AND PATCH OR BORE UNDER ALL EXISTING SIDEWALKS, DRIVEWAYS, ETC. AS NEEDED FOR NEW CONDUIT INSTALLATION.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ELECTRICAL BREAKER SIZES WITH ACTUAL MECHANICAL EQUIPMENT BEING INSTALLED. DO NOT REDUCE CONDUIT AND CONDUCTOR SIZES FOR MECHANICAL EQUIPMENT ACTUALLY BEING INSTALLED.
12. ALL EMPTY CONDUITS SHALL INCLUDE PULLSTRING FOR FUTURE.
13. ALL COMMUNICATIONS, FIRE ALARM AND INTERCOM CABLING BEING INSTALLED OUTDOORS SHALL BE RATED FOR WET LOCATIONS. ALL FIRE ALARM STROBES SHALL BE SYNCHRONIZED.
14. CONTRACTOR SHALL CONTACT ALL UTILITIES PRIOR TO BID AND OBTAIN ANY CHARGES FOR SERVICES OUTLINED. ALL COST SHALL BE INCLUDED IN BID.
15. PLANS AND SPECIFICATIONS SHALL BE CONSIDERED MINIMUM STANDARDS.
16. ALL CIRCUITS SHALL CONTAIN AN INSULATED GROUND CONDUCTOR IN ADDITION TO PHASE AND NEUTRAL CONDUCTORS INDICATED ON PLANS AND IN PANEL SCHEDULES.
17. ALL CONDUIT ON EXTERIOR OF BUILDING SHALL BE RIGID GALVANIZED STEEL.
18. NON-METALLIC FLEXIBLE CONDUIT IS NOT AN APPROVED WIRING METHOD.
19. ALL SWITCHES AND RECEPTACLES SHALL BE RATED 20 AMPS MINIMUM.
20. MINIMUM CONDUIT SIZE SHALL BE 1/2".
21. MINIMUM WIRE SIZE SHALL BE #12.
22. ALL ELECTRICAL WORK SHALL BE DONE BY QUALIFIED LICENSED ELECTRICIANS.
23. DO NOT COMBINE HOMERUNS, MULTIPLE HOTS IN A SINGLE JUNCTION BOX, OR DEVICE SHALL BE ON A SIMULTANEOUS DISCONNECTING HANDLE TIE OR COMMON TRIP BREAKER.
24. CIRCUIT DIRECTORY. EVERY CIRCUIT AND CIRCUIT MODIFICATION SHALL BE IDENTIFIED AS TO ITS CLEAR, EVIDENT, AND SPECIFIC PURPOSE OF USE. THE IDENTIFICATION SHALL INCLUDE SUFFICIENT DETAIL TO ALLOW EACH CIRCUIT TO BE DISTINGUISHED FROM ALL OTHERS. SPARE POSITIONS SHALL BE DESCRIBED ACCORDINGLY AS PER NEC SECTION 408.4.
25. CONTRACTOR SHALL REVIEW THE ENTIRE SPECIFICATIONS/ PROJECT FOR ADDITIONAL REQUIREMENTS DETAILED IN OTHER DIVISIONS SECTIONS (INCLUDING BUT NOT LIMITED TO FOOD SERVICE, DOOR HARDWARE, SEWER TREATMENT AND DIVISION 15).
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO EXCAVATION AND SHALL BE LIABLE FOR ANY DAMAGES CAUSED. ALL REPAIRS SHALL BE COMPLETED BY THE APPROPRIATE LICENSED CONTRACTOR.
27. CONTRACTOR TO PROVIDE PERMANENT MARKING OF PHASE ROTATION AT MAIN SERVICE.
28. CONTRACTOR TO USE MYERS HUB CONNECTORS AT ALL EXTERIOR PANELBOARDS, DISCONNECTS, CABINETS, JUNCTION BOXES, TROUGHS, ETC. PENETRATIONS (INCLUDING SIDE PENETRATIONS).

H

VOLTAGE: 120/208V, 3 PHASE, 4 WIRE
MOUNTING: SURFACE
NEMA: 3R
ULSE: YES X NO __
TYPE: PANELBOARD

MAIN: 100A MB
AIC: 22,000
LOAD: 2.2 KW

DESCRIPTION	WIRE	GND	MIN COND	BRKR AMPS	CCT NO.					CCT NO.	BRKR AMPS	WIRE	GND	MIN COND	DESCRIPTION
BUILDING SCONSES	#12	#12	1/2"	20A	1 *					*2	20A	#12	#12	3/4"	DIGITAL SIGN
BUILDING SCONSES	#12	#12	1/2"	20A	3					4	20A	#12	#12	3/4"	WATER HEATER
SPARE	--	--	--	20A	5					6	20A	--	--	--	SPACE
SPARE	--	--	--	20A	7					8	20A	--	--	--	SPACE
SPARE	--	--	--	20A	9					10	20A	--	--	--	SPACE
SPACE	--	--	--	20A	11					12	20A	--	--	--	SPACE
SPACE	--	--	--	20A	13					14	20A	--	--	--	SPACE
SPACE	--	--	--	20A	15					16	20A	--	--	--	SPACE
SPACE	--	--	--	20A	17					18	20A	--	--	--	SPACE
SPACE	--	--	--	20A	19					20	20A	--	--	--	SPACE
SPACE	--	--	--	20A	21					22	20A	--	--	--	SPACE
SPACE	--	--	--	20A	23					24	20A	--	--	--	SPACE

* CONTROL THIS CIRCUIT WITH TWO CIRCUIT ASTRONOMICAL TIME CLOCK WITH 24 HOUR BATTERY BACKUP. SET IN NEMA-3R ENCLOSURE ADJACENT THIS PANEL.

B

VOLTAGE: 120/208V, 3 PHASE, 4 WIRE
MOUNTING: SURFACE
NEMA: 1
ULSE: YES__ NO X
TYPE: PANELBOARD

SINGLE SECTION

MAIN: 350 MB
AIC: 22,000
LOAD: 107.4 KVA

DESCRIPTION	WIRE	GND	MIN COND	BRKR AMPS	CCT NO.					CCT NO.	BRKR AMPS	WIRE	GND	MIN COND	DESCRIPTION
LIGHTS	#12	#12	1/2"	20A	1					2☆	70A	#4	#8	1 1/4"	HOOD SUPPLY FAN
LIGHTS	#12	#12	1/2"	20A	3					4					
EXHAUST FANS	#12	#12	1/2"	20A	5					6					
EXHAUST FANS	#12	#12	1/2"	20A	7					8	20A	#12	#12	1/2"	WASHING MACHINE
OUTLETS	#12	#12	1/2"	20A	9					10	30A	#10	#10	3/4"	DRYER
OUTLETS	#12	#12	1/2"	20A	11					12					
OUTLETS	#12	#12	1/2"	20A	13					14 *	20A	#12	#12	1/2"	REFRIGERATOR
OUTLETS	#12	#12	1/2"	20A	15					16	30A	#10	#10	3/4"	FRYER
OUTLETS	#12	#12	1/2"	20A	17					18					
OUTLETS	#12	#12	1/2"	20A	19					20 *	20A	#12	#12	1/2"	ICE MACHINE
CUTTER (ASSUME)	#12	#12	1/2"	20A	21					22	20A	#12	#12	1/2"	RICE COOKER
SLICER (ASSUME)	#12	#12	1/2"	20A	23					24	20A	#12	#12	1/2"	RICE COOKER
RTU-2	#8	#10	1"	50A	25**					26	20A	#12	#12	1/2"	SANDWICH FRIDGE
					27					28 *	20A	#12	#12	1/2"	COKE MACHINE
					29					30	20A	#12	#12	1/2"	FREEZER FRIDGE (ASSUME)
WATER HEATER	#10	#10	3/4"	30A	31					32 *	20A	#12	#12	1/2"	BLENDER / WATER DISP.
					33					34 *	20A	#12	#12	1/2"	COKE MACHINE
WATER HEATER	#10	#10	3/4"	30A	35					36	30A	#10	#10	3/4"	WATER HEATER WHA
					37					38					
WATER HEATER	#10	#10	3/4"	30A	39					40	20A	--	--	--	SPARE
					41					42	20A	--	--	--	SPARE
RTU-1	1/0	#6	2"	150A	43**					44	20A	#12	#12	1/2"	HOOD CONTROLS
					45					46	20A	#12	#12	1/2"	HOOD EXHAUST FAN
					47					48					
DISHWASHER	#12	#12	1/2"	20A	49 *					50					
SPACE	--	--	--	20A	51					52	20A	--	--	--	SPARE
SPACE	--	--	--	20A	53					54	20A	--	--	--	SPARE
SPACE	--	--	--	20A	55					56	20A	--	--	--	SPARE
SPACE	--	--	--	20A	57					58	20A	--	--	--	SPARE
SPACE	--	--	--	20A	59					60	20A	--	--	--	SPARE

☆ SHUNT TRIP TYPE CIRCUIT BREAKER. INTERLOCK WITH HOOD SUPPRESSION SYSTEM TO TRIP UPON SYSTEM ACTIVATION.

* GFI TYPE BREAKER.

** PROVIDE #10 NUETRAL CONDUCTOR IN CIRCUIT. (120V OUTLET)

LOAD SUMMARY:

NEW RESTAURANT BANGKOK TAI	
LOAD:	CONNECTED KW:
LIGHTS	1.25
OUTLETS	5.1
KITCHEN EQUIPMENT	9.6
KITCHEN REFRIGERATOR	6.7
A.C.	44.6
WATER HEATER	16.4
LAUNDRY	5.7
KITCHEN HOOD AND EXHAUST FAN	18.15
TOTAL:	107.5

HOUSE PANEL	
LOAD:	CONNECTED KW:
LIGHTS	2.2
TOTAL:	2.2

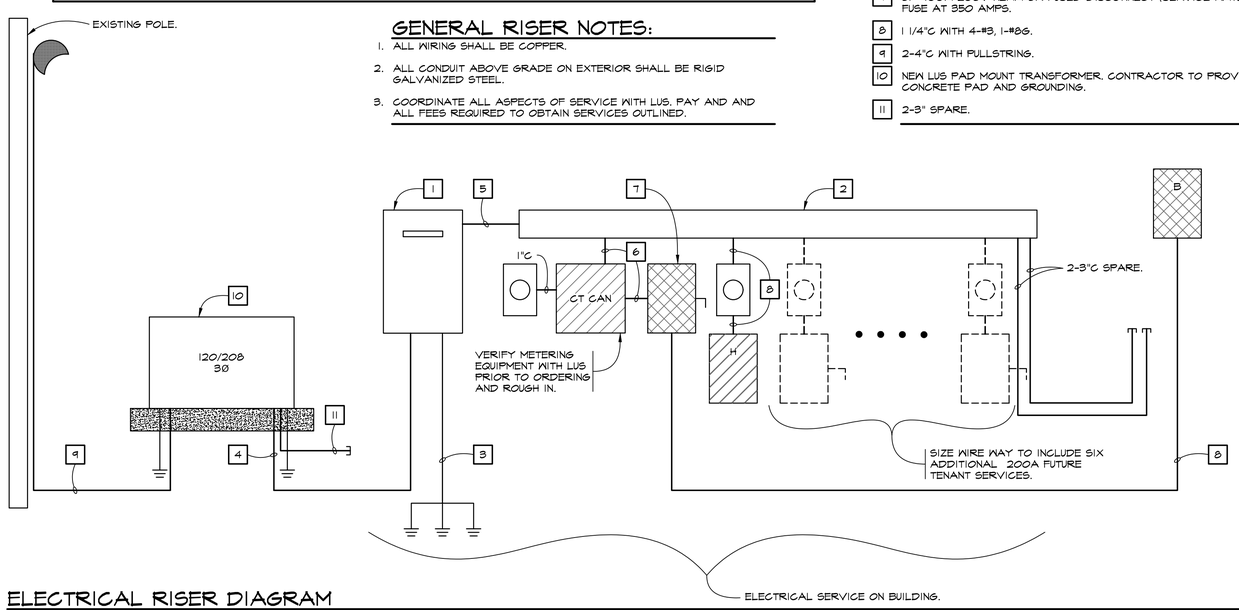
ESTIMATED FUTURE TENANT SPACES	
ESTIMATED LOAD:	CONNECTED KW:
15.45 WATTS / FT x 7235 FT^2	111.8
TOTAL:	111.8

RISER DIAGRAM KEYNOTES:

1. 3P 800A MB 22,000 AIC IN SERVICE RATED NEMA-3R ENCLOSURE.
2. PAD LOCKABLE NEMA-3R WIREWAY.
3. 3/0 CU GROUND WIRE TO THREE (3) 10' x 5/8" GROUND RODS SPACED 6 FEET APART, BUILDING STEEL, COLD WATER PIPING AND CONCRETE SLAB ENCASED REBAR.
4. 2 SETS 3"C EACH WITH 3-500, 1-250 MCM.
5. 2 SETS 3"C EACH WITH 3-500, 1-250, 1-1/0 MCM.
6. 3"C WITH 3-400, 1-300, 1-#3G.
7. 3P 400A 208V NEMA-3R FUSED DISCONNECT (SERVICE RATED). FUSE AT 350 AMPS.
8. 1 1/4"C WITH 4-#3, 1-#8G.
9. 2-4"C WITH PULLSTRING.
10. NEW LUS PAD MOUNT TRANSFORMER. CONTRACTOR TO PROVIDE CONCRETE PAD AND GROUNDING.
11. 2-3" SPARE.

GENERAL RISER NOTES:

1. ALL WIRING SHALL BE COPPER.
2. ALL CONDUIT ABOVE GRADE ON EXTERIOR SHALL BE RIGID GALVANIZED STEEL.
3. COORDINATE ALL ASPECTS OF SERVICE WITH LUS, PAY AND AND ALL FEES REQUIRED TO OBTAIN SERVICES OUTLINED.



ELECTRICAL RISER DIAGRAM

NOT TO SCALE

REVISIONS BY

RESTAURANT AND LEASE SPACE FOR

MANISUP

4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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ELECTRICAL ENGINEERING
5/20/2026

DRAWN	B.B.
CHECKED	N.L.
DATE	3-6-26
PROJECT NO.	1161-25

E5.0

5 OF 6 SHEETS

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SECTION 16100 ELECTRICAL GENERAL CONDITIONS

GENERAL:

RELATED DOCUMENTS : The General Conditions and all pertinent sections are a part of this specification and the Contractor shall consult them in detail for instructions pertaining to work included under this Division. Contractor shall consult all other sections of specifications to determine any additional Division 16 requirements relative to other Divisions.

SCOPE OF WORK: The work contemplated under this specification comprises the furnishing of all labor and materials required and necessary for the complete electrical installation. All work shall be in accordance with the latest edition of the National Electrical Code and all local codes and ordinances. Electrical materials shall be new and unused, and shall be listed and labelled for the service intended by Underwriters' Laboratories, Inc., where such labelling service is available. The specifications are intended to describe a complete workable system and bidders shall report any discrepancies or omissions preventing such workability prior to submission of bids.

The work covered by this specification shall be as indicated on the plans and called for herein, and shall be comprised generally of the following:

1. Furnish and install all conduit and wiring, raceways, panels, conductors, disconnects, etc.
2. Furnish and install feeders and branch circuits.
3. Furnish and install service to all mechanical equipment specified under Division 15.
4. Furnish and install service to special equipment provided under other divisions of these specifications.
5. Furnish and install raceway and cabling for Data/ Telephone and cable systems.
6. Furnish and install light fixtures.

All equipment installed by this contractor shall be installed in strict accordance with instructions of the manufacturer.

Contractor shall visit the project site prior to bidding to determine existing conditions and assume all responsibility and bear all expenses in allowing for these conditions in the bid.

The Contractor is referred to the Architectural and Structural details for information in regards to the Architectural details. His work shall be done in strict accordance with local and state ordinances governing this class of work.

REJECTED WORK AND MATERIALS : Should contractor introduce any materials different from those called for and described in specifications or shown on plans, it must, on notification from the engineers, be immediately removed from building or premises.

SHOP DRAWINGS : Before proceeding with work and/or within thirty (30) days award of the General Contract for this work, Contractor shall furnish to the Architect, complete shop and working drawings of such apparatus, equipment, controls, insulation, etc. to be provided in this project. These drawings shall give dimensions, weights, mounting data, performance curves, and other pertinent information. Shop drawings to be submitted as listed below:

1. Wiring Devices
2. Conduit and Fittings
3. Wiring and cables
4. Data and Telephone Cabling and equipment.
5. Panel boards, Disconnects, etc.
6. Light fixtures.

The contractor may be required to submit shop drawings on any other material he supplies in construction of this project. These drawings shall be submitted at time requested by Architect/Engineer.

The Engineer's approval of shop drawings shall not relieve the Contractor from the responsibility of incorrectly figured dimensions or any other errors that may be contained in these drawings. The omissions from the shop drawings, or specifications, even though approved by the Engineer, shall not relieve this Contractor from furnishing and erecting same.

ADDITIONS AND CHANGES : The contract documents are diagrammatic and show approximate location of feeders, branch circuits, light and power circuits, etc., except where specific routing or dimensions are indicated. The Architect reserves the right to make reasonable changes in locations indicated before roughing-in without additional cost to the Owner.

GUARANTEE: The Contractor shall be required to keep the work installed in repair and perfect working order for one year from date of completion and final acceptance; said guarantee shall be based on defective materials and substandard workmanship. Contractor shall furnish, free of cost to owner, all materials and labor necessary to comply with this guarantee.

LAWS, PERMITS AND INSPECTIONS: This contractor shall at his own cost obtain and pay for all necessary permits, inspections, connection charges, fees, insurance, bond, and licenses; pay all legal fees and charges; and comply with all state and municipal building and safety laws, ordinances and regulations relating to the building and the public health and safety, including NEC, NFPA, and OSHA.

The work shall be inspected before being permanently concealed by concrete slabs, walls, etc.

CUTTING AND PATCHING: Contractor shall do all cutting and patching where necessary at his own expense with approval of the Engineers as to cutting of any structural beams or joists, but all patching shall be done by other crafts whose work is involved. After initial surfacing has been done, all further cutting, patching, and painting shall be done at contractor's expense.

SAFETY PRECAUTIONS: Contractor shall furnish and place proper guards for prevention of accidents. He shall provide and maintain any other necessary construction required to secure safety of life or property, including maintenance of sufficient lights during all night hours to secure such protection.

TEMPORARY ELECTRICAL SERVICE: Contractor shall provide and install temporary electrical service for job construction.

Contractor shall be responsible for acquiring the temporary electrical service from the power company and shall be responsible for all charges incurred.

INSERTS AND OPENINGS: This contractor shall furnish and install all inserts and hangers required to support conduit, cables, wireways, disconnect switches, etc. NO TIE WIRES.

OPENINGS THROUGH WALLS AND FLOORS : Provide all slots, sleeved holes and other openings necessary through walls and floors, and through any other parts of the structure.

Where conduits pass through walls which are intended as rated fire walls, leave-outs, penetrations or sleeves shall be sealed so as not to interfere with the rating of the wall.

Where conduits pass through exterior walls, slabs on grade, or roofs; leave-outs, penetrations or sleeves shall be sealed watertight.

FOOTINGS: Where conduits pass through footings, cast iron sleeves shall be provided. All conduit sleeves shall be built in place as the walls and floors are constructed. The Contractor shall furnish and locate all sleeves for insertion into the structure part of the building. The space between the sleeves and conduit passing through concrete floors and exterior masonry walls shall be made water tight with approved non-hardening plastic materials.

The work shall be inspected by engineer before being permanently concealed in concrete slabs, walls, etc.

BACKFILLING: Contractor shall be responsible to backfill any trenches for electrical runs under the building, paving, or any area of the site by backfilling the bottom of the trench -up to the top of the conduit with sand, then placing compacted fill in 4" layers using power tamping equipment.

RECORD DRAWINGS

If the contractor elects to vary from the contract documents and secures prior approval from the architect for any phase of the work, he shall record in a neat and readable manner, ALL such variances on a set of blueline prints in red. These changes shall then be transferred to the permanent set (sephia) at the completion of the job. both the sephia and the original bluelines shall be returned to the engineer for documentation.

The following requirements apply to all "RECORD" drawings:

1. They shall be maintained at the contractor's expense.
2. All such drawings shall be done carefully and neatly and in a form approved by the Engineer.
3. Additional drawings shall be provided as necessary for clarification.
4. They shall be kept up-to-date during the entire course of the work and shall be available upon request for examination by Engineer and when necessary, to establish clearances for other parts of the work.
5. "Record" drawings shall be returned to the Architect upon completion of the work and are subject to approval of the Engineer.

EQUIPMENT MANUALS: Before the date of substantial completion, Contractor shall furnish to the Architect three (3) bound sets of descriptive, dimensional, and parts data on all major items of electrical equipment and material including those items listed above under "Shop Drawings."

This submittal shall also include the final Electrical Inspection Certificate from the authority having jurisdiction and the Statement of Inspection from the State Fire Marshal's Office.

EQUIPMENT IDENTIFICATION: Each major piece of electrical equipment shall include an engraved identification nameplate.

Identification nameplates shall include the equipment identification as noted on the contract drawings and shall include the utilization voltage and phase of the equipment.

MECHANICAL EQUIPMENT: All power wiring associated with Division 15 shall be done as work of Division 16. All power disconnect switches and single speed manual starting switches shall be furnished and installed under Division 16.

Except as indicated on the drawings and hereinafter noted, all control wiring shall be furnished and installed under Division 16, in accordance with the requirements of Division 15.

All magnetic starters shall be furnished under Division 15 and installed under Division 16.

END OF SECTION 16100

SECTION 16200 BASIC MATERIALS AND METHODS

GENERAL

DESCRIPTION: Contractor shall provide and install all materials for complete and operational systems as listed below.

PRODUCTS

RACEWAYS AND FITTINGS: Raceways used shall be hot dipped galvanized rigid steel conduit, electrical metallic tubing, intermediate metal conduit (IMC), rectangular raceways (wiremold) or rigid nonmetallic conduit (Schedule 40 PVC). The routing of all conduit shall be verified and approved by the engineer prior to installation. The engineers decision in this matter shall be final.

EMT shall not be installed outdoors.

Nonmetallic conduit shall not be installed indoors or outdoors above grade.

Raceway for underground wiring shall be Schedule 40 PVC.

Flexible metal conduit shall be used for final connections to lighting fixtures, motors, and all other equipment subject to vibration. Liquid tight flexible metal conduit shall be used in all exterior locations and other areas subject to moisture or corrosion. Maximum length shall be six foot.

Exterior conduit run above grade shall be rigid galvanized steel. Transitions between nonmetallic conduit run underground and metal conduit run above ground shall be made underground. Nonmetallic conduit shall not extend above grade. The routing of all conduit shall be verified and approved by the engineer prior to installation. The engineers decision in this matter shall be final.

BOXES: Ceiling outlet boxes shall be 4" octagonal, 2-1/8" deep for exposed work or furred ceiling work, and 3" deep for concrete work. All boxes for concrete work shall be of the type specifically designed for this construction. Plaster rings and/or fixture studs shall be provided where required.

Flush mounted wall outlets shall be 4" square boxes or gang boxes, not less than 1-1/2" deep. Boxes shall be provided with extension rings and/or covers with sufficient depth to bring the covers flush with the finished wall.

Do not install junction boxes/splices at inaccessible locations.

LIGHTING CONTROLS: Toggle switches shall be quiet 20 amp devices Hubbell 1221-1, Leviton 1221-1 or Slater T20-AC-IV. The same standard grade shall be used for three-way, four-way, or other type that may be required.

Occupancy sensors where wall mounted shall be Novitas 01-400 and where ceiling mounted shall be Novitas-01-111 with switch pack 13-051.

RECEPTACLES: Duplex receptacles shall be NEMA 5-20R and shall be Hubbell, Leviton, GE or equivalent.

GFI type receptacles shall be rated 20 amperes and shall be as manufactured by Hubbell, Leviton, GE, or equivalent.

Special purpose receptacles shall be as indicated in the Contract Drawings and manufactured by Hubbell, Leviton, GE, or equivalent.

DEVICES AND COVERS : The contractor shall provide lexan cover plates for all devices unless otherwise specified. The colors of all devices shall be as per the Architect's selection.

EXECUTION

INSTALLATION: All work shall conform to National Electric Code.

PROTECTION OF MATERIAL AND EQUIPMENT: All work, equipment and materials shall be protected at all times to prevent obstruction, damage or breakage. All conduit openings shall be covered and protected against dirt, water, chemical, or mechanical injury. At the completion of the work, all equipment shall be thoroughly cleaned and the entire system shall be delivered in a perfect, unblemished condition.

PAINTING: Equipment: All equipment shall be delivered to the job with suitable factory finish. Should the finish be marred in transit or during installation, it should be finished to present a neat, workmanlike appearance.

CLEANING UP: (Removal of Trash, Equipment, Etc.) Upon completion of their work, the electrical contractor shall remove all rubbish and excess material accumulated as a result of their operation; also, they shall remove all their tools, machinery, equipment, etc.

CLEANING OF INSTALLED EQUIPMENT: All equipment installed under this contract shall be wiped clean of dust and debris prior to final acceptance.

WIRING METHODS: All wiring shall be installed in conduit.

Conduit and electrical metallic tubing shall be hot dipped galvanized. EMT connectors shall be compression type or set screw type and where required, only connectors approved as raintight shall be used.

Where conduit runs across or is installed parallel to hot water lines, conduit shall be installed at a minimum distance of 6" from same.

All conductors shall be THHN/THWN-2 600 V copper.

Conductors shall be identified at all access points by color coding. On larger conductors painted or taped bands shall be used. In no case shall tags be acceptable.

Connectors shall be wirenuts sized in accordance with the size and number of conductors being connected.

All conductors shall be copper.

All conductors #8 or larger shall be stranded.

Conductor splices shall be kept to a minimum and no splices shall be allowed in any feeder.

BRANCH CIRCUITS: Conductors that exceed 75' in total circuit length shall be increased by one conductor size (i.e. #12 increase to #10 per entire circuit.)

Splice and tap connectors shall be compatible with the conductor material and shall have mechanical strength and insulation rating equivalent to conductor.

All empty conduits shall include a pull string.

Raceway shall be concealed within walls or above ceilings in finished spaces. Where concealment is impractical in existing concrete block walls, raceway may be run exposed. Exposed raceway shall be wiremold type surface metal raceway sized for each specific use. The routing of all raceways shall be verified and approved by the engineer prior to installation. The engineers decision on this matter shall be final.

The contractor shall run all conduits parallel and perpendicular with the structure in a neat and orderly fashion. The conduits shall be properly strapped not to exceed six (6) feet intervals.

A green insulated, copper, equipment grounding conductor sized in accordance with NEC Article 250-95 shall be included in each feeder and branch circuit conduit.

Computer and telephone outlets shall include 2-gang outlet boxes with single gang cover plates.

MOTOR WIRING: Every motor 1/8 HP or greater shall be provided with a disconnecting means. Where combination starters are provided and meet code requirements for disconnecting means, the disconnect need not be installed.

MOTOR AND CONTROL WIRING: Contractor shall provide, install and connect power and control wiring to motors, appliances, exhaust fans, water heaters, heaters, etc. furnished under this and Division 15 sections of these specifications.

Work shall include the installation of starters, disconnects, start-stop stations, pilot lights, thermostats, firestats, etc. Contractor shall check the other various sections of the specifications for work he is responsible to do. All control wiring shall be installed in conduit.

END OF SECTION 16200

SECTION 16300 - ELECTRICAL DISTRIBUTION SYSTEM

PART 1 - GENERAL

DESCRIPTION - Electrical contractor shall provide all materials, labor etc. required for a complete installation of all power wiring.

Contractor shall coordinate carefully with other trades to insure proper power requirements are adhered to.

PART 2 - PRODUCTS

FEEDERS: All feeders shall be copper with thw 600 volt insulation. Routing of each feeder shall approximate that shown on plans. All conduits shall be run in walls, between floors and above ceilings so as to be concealed.

CIRCUIT BREAKER PANELBOARDS: Bolt-on panelboards: Circuit breakers shall be quick-make, quick-break thermal-magnetic trip indicating, and have common trip on all multi-pole breakers. Trip indication shall be clearly shown by the breaker handle taking position between ON and OFF when the breaker is tripped. Branch circuit breakers feeding convenience outlets shall have sensitive instantaneous trip settings of not more than 10 times the trip rating of the breaker to prevent repeated arcing shorts resulting from frayed appliance cords.

Connections to the bus shall be bolt-on as indicated on plans.

Panelboard Bus Assembly: Bus bar connections to the branch circuit breakers shall be the "distributed Phase" or "Phase Sequence" type. Single-phase, three-wire panelboard bussing shall be such that any two adjacent single-pole breakers are individually connected to each of the three different phases in such a manner that two to three-pole breakers can be installed at any location. All current-carrying parts of the bus assembly shall be copper. mains rating shall be shown on the panelboard schedule on the plans.

Wiring Terminals: Terminals for feeder conductors to the panelboard mains and neutral shall be UL listed as suitable for the type of conductor specified. Terminals for branch circuit wiring, both breaker and neutral, shall be UL listed as suitable for the type of conductor specified.

Circuit Numbering: Panelboard circuit numbering shall be such that starting at the top, numbers shall be used in sequence down the left hand side and remaining numbers shall be used in sequence down the right hand side.

Cabinets and Fronts: The panelboard bus assembly shall be enclosed in a steel cabinet. The size of the wiring gutters and gauge of steel shall be in accordance with NEMA Standards Publication No. PB1-1971 and UL standards No. 67 for panelboards. the box shall be fabricated from galvanized steel or equivalent rust-resistant steel.

Fronts shall include doors and have flush, brushed stainless steel, cylinder tumbler-type locks with catches and springloaded door pulls. the flush lock shall not protrude beyond the front of the door. All panelboard locks shall be keyed alike. Fronts shall have adjustable indicating trim clamps which shall be completely concealed when the doors are closed. Doors shall be mounted by completely concealed steel hinges. Fronts shall not be removable with door in the locked position. A circuit directory frame and card with a clear plastic covering shall be provided on the inside of the door. The directory card shall provide a space at least 1/4" high x 3" long or equivalent for each circuit. The directory shall be typed to identify the load fed by each circuit. Fronts shall be of code gauge, full finished steel with rust inhibiting primer and baked enamel finish.

UL Listing: Panelboards shall be listed by UL and bear the UL label.

All panelboards shall have plastic tags with 1/8" characters embossed thereon identifying the panelboard such as "Panel "A" 120/240v, 1 Phase, 3 Wire". The tags shall be fixed to the door of the panelboard.

All panelboards shall have an isolated ground bus in addition to regular ground bus.

Approved Products: GE Model NALB; Sq D NQOB

PART 3 - EXECUTION:

INSTALLATION: The entire installation shall be in accordance with the National Electrical Code.

This contractor shall comply with all established local codes, ordinances, etc.

BALANCING SYSTEM: Contractor shall balance the feeder to the panels between respective phases of system and submit to architect a tabulation of such balancing. Balancing shall be done by individual circuits.

ELECTRIC SERVICE: Provide 120/208 volt, 3 phase, 4 wire electric service as indicated on the plans.

COORDINATION: All work shall be done in accordance with the latest edition of the NEC and all local codes and ordinances. All work shall be coordinated and verified with the serving power company and shall be done in accordance with their requirements. Work not shown on the plans or changes they require will be the responsibility of the contractor at no additional cost to the owner.

END OF SECTION 16300

SECTION 16400 LIGHTING FIXTURES

GENERAL

DESCRIPTION : All lighting fixtures shall be as scheduled on the plans.

Provide complete with lamps, mounting hardware, and all accessories necessary for a complete installation.

Refer to the lighting plan for exact fixture locations.

All fixtures shall be thoroughly cleaned prior to final project closeout.

PRODUCTS

LIGHT FIXTURES: All light fixtures shall be as scheduled on plans.

No lighting fixture will be accepted with a noisy ballast. The contractor shall take all necessary steps to correct the ballast with a noise problem.

EXECUTION

INSTALLATION: All light fixtures shall be UL labelled and approved.

All fixtures shall be installed in accordance with NEC.

No lighting fixtures may rely solely on the ceiling for support. The fixture shall be supported at each end by two tie wires run between the fixture building structure.

Surface ceiling mounted fluorescent shall be mounted on 1/8" spaces to allow proper cooling. Surface mounted fluorescent on suspended ceilings shall be mounted through the tile and ceiling framing system to a piece of angle which is supported by and secured to the ceiling framing system.

END OF SECTION 16400

REVISIONS BY

RESTAURANT AND LEASE SPACE FOR

MANISUP

4953 JOHNSTON STREET, LAFAYETTE, LA 70503

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STATE OF LOUISIANA
NICHOLAS LEGIE
License NO. 35085
PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
5/20/2026

DRAWN	B.B.
CHECKED	N.L.
DATE	3-6-26
PROJECT NO.	1161-25

E6.0

6 OF 6 SHEETS

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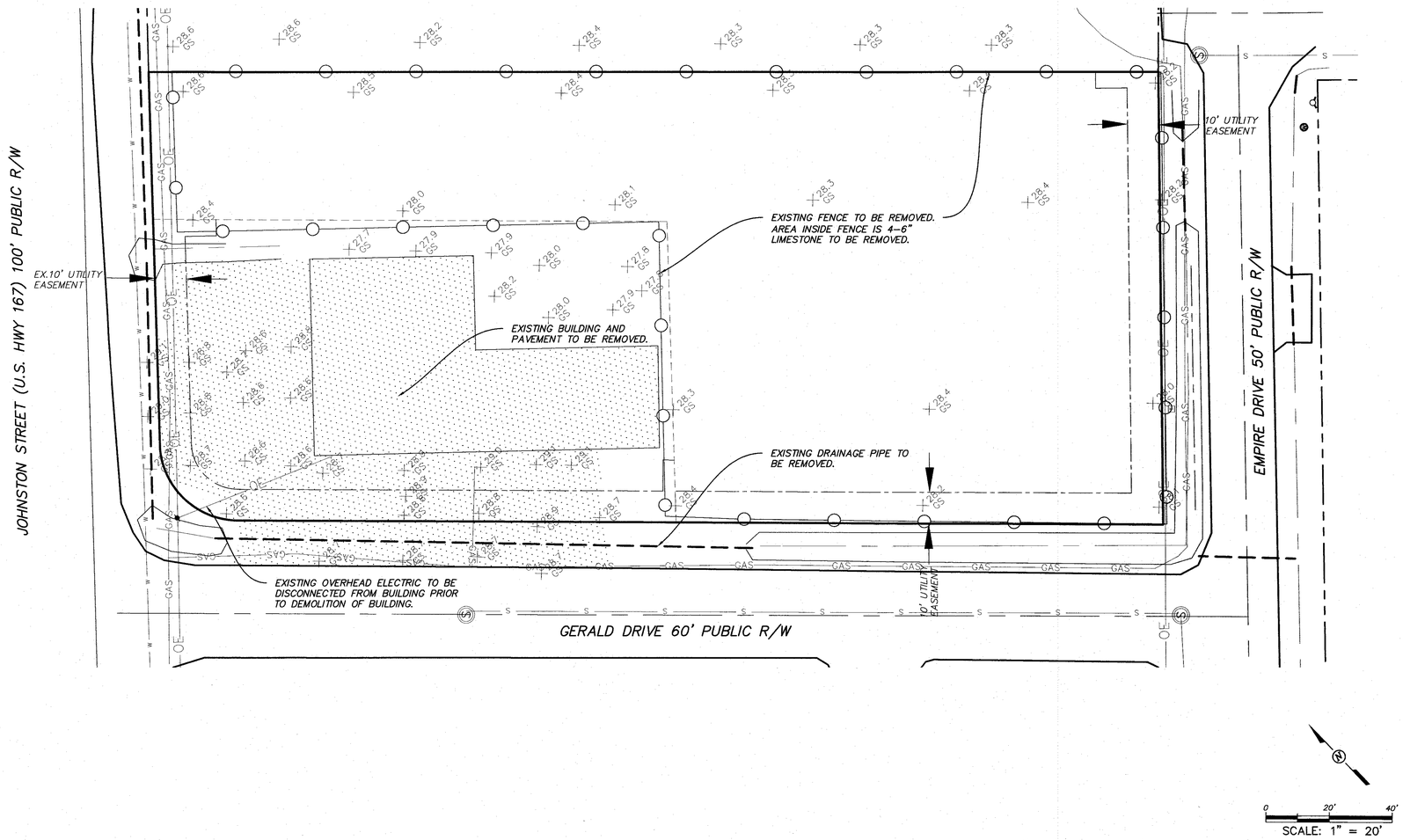

STATE OF LOUISIANA
Travis P. Laurent
License No. 32201
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING
5-20-26

PAUL L. MIERS ENGINEERING, LLC
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LAFAYETTE, LOUISIANA 70506
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DATE	DESCRIPTION	BY
	REVISED	

BANGKOK THAI RESTAURANT
LAFAYETTE, LA

TOPOGRAPHY & DEMOLITION PLAN

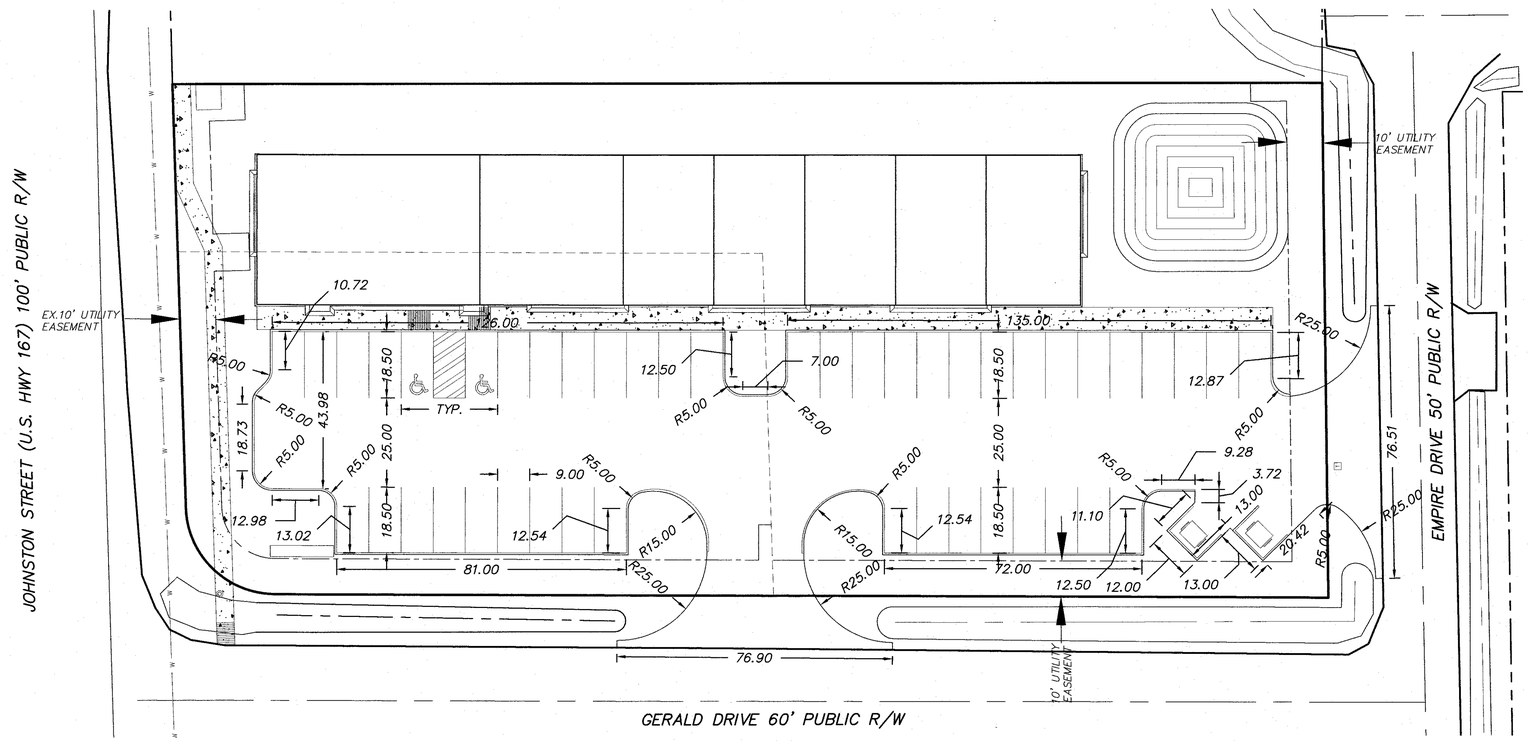
SHEET NO

C1.1

DATE OF PLANS:

BPN: 4975 SPN: ____

FILE: D DWG: ____



1. CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, SIDEWALKS, EXIT PORCHES, RAMPS, TRUCK DOCKS, AND PRECISE BUILDING DIMENSIONS.

2. ALL UNSURFACED AREAS ARE TO RECEIVE FOUR INCHES OF TOPSOIL, SEED, MULCH, OR SOD, AND WATERED UNTIL A HEALTHY STAND OF GRASS IS OBTAINED IN ACCORDANCE WITH THE LANDSCAPE PLAN.

3. CONTRACTOR IS RESPONSIBLE FOR PROTECTION EXISTING BENCHMARKS.

4. ALL WORK SHOWN SHALL BE DONE IN ACCORDANCE WITH THE PLANS.

5. ALL STRIPING SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION.

6. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION.

7. CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR ENTRY LOCATION OF ALL WATER, SEWER SERVICE, ELECTRICAL, AND TELEPHONE SERVICE, CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION AND TIE-INS/CONNECTIONS TO THEIR FACILITIES.

8. ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THE CONSTRUCTION OF THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.

9. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS. ALL PROPERTY CORNERS AND REPLACING ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.

10. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC., REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.

11. THE SITE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, AND ANY OTHER MISC. UTILITIES) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL, AND THE PLACEMENT OF ANY APPROPRIATE SOIL STABILIZATION TECHNIQUE.

12. CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ABOVE GROUND UTILITIES AND APPURTENANCES SUCH AS TRANSFORMERS, POST INDICATOR VALVES, AND FIRE HYDRANTS ADJACENT TO DRIVES AND WITHIN 5 FOOT OF CURBS.

13. CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT.

14. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO THE SAME.

15. ANY WORK IN THE RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF PORT ALLEN & THE LOUISIANA DEPARTMENT OF TRANSPORTATION ENGINEERING STANDARDS & SPECIFICATIONS.

16. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 96 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

17. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.

18. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.

19. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.

20. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICES.

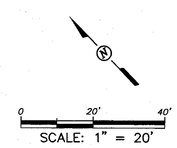
21. CONTRACTOR SHALL ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.

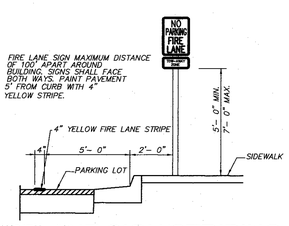
22. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND REQUIREMENTS. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND OWNERS INSPECTION AUTHORITIES.

23. CONTRACTOR SHALL PAY ALL FEES & CHARGES PERTINENT TO WATER AND SEWER TAPS & CONSTRUCTION & SHALL COORDINATE WITH LAFAYETTE CONSOLIDATED GOVERNMENT UTILITIES SYSTEM PRIOR TO COMMENCING WITH CONSTRUCTION.

24. ALL PRIMARY AND SECONDARY SERVICE LOCATIONS ARE APPROXIMATE AND ARE SHOWN FOR COORDINATION PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH LUS TO DETERMINE EXACT LOCATION AND RESPONSIBILITIES INCLUDING COST.

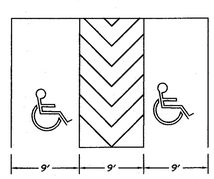
25. ALL COMMUNICATIONS LINES LOCATIONS ARE APPROXIMATE AND SHOWN FOR COORDINATION PURPOSES ONLY. REFERENCE ARCHITECT'S PLANS FOR ALL BUILDING SERVICE CONNECTIONS.



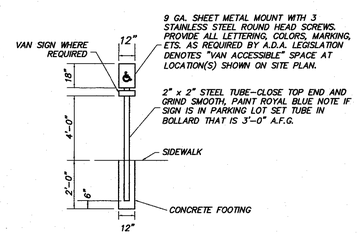


FIRELANE SIGN/STRIPING PLACEMENT DETAIL

FIRELANE TO BE PLACE ALONG ALL CURBING NOT ADJACENT TO PARKING SPACES



TYPICAL HANDICAP PARKING STALLS



HANDICAP SIGN DETAIL

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DATE	DESCRIPTION	BY
	REVISED	

BANGKOK THAI RESTAURANT
LAFAYETTE, LA

SITE PLAN

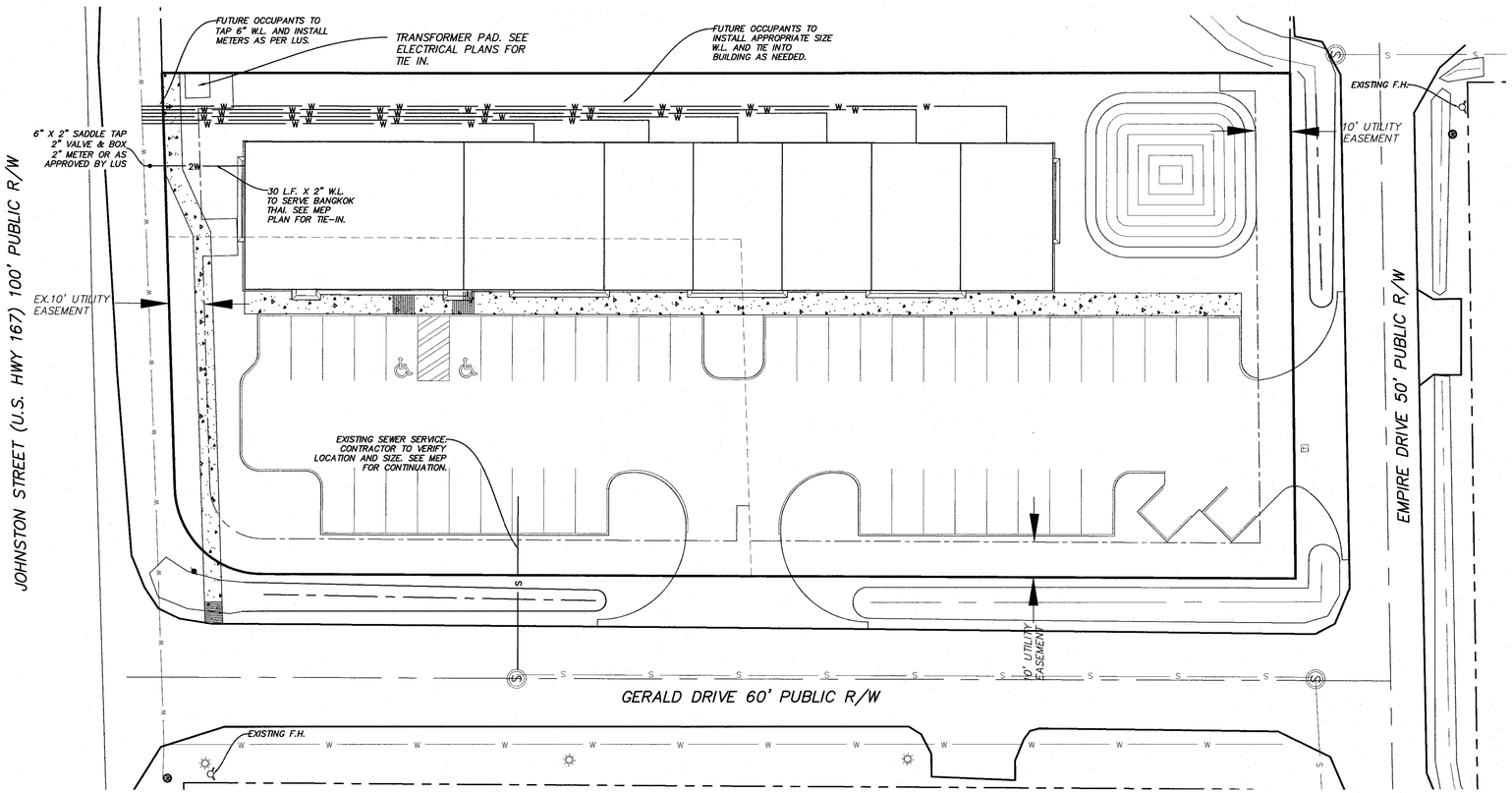
SHEET NO

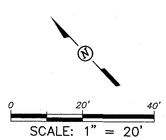
C1.2

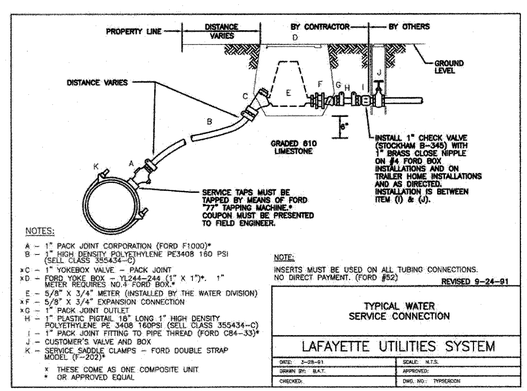
DATE OF PLANS:

BPN: 4975 | SPN: ____

FILE: D | DWG: ____







GENERAL WATER NOTES:

CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER IMPROVEMENTS WITH PORT ALLEN PUBLIC WORKS AND NOTIFY CIVIL ENGINEER BEFORE WORK IS TO BEGIN TO ALLOW REQUIRED PRE–CONSTRUCTION MEETING TO BE CONDUCTED BY ENGINEER. A PRE–CONSTRUCTION MEETING SHALL BE HELD PRIOR TO ANY UTILITY WORK BEING DONE. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL RECORDS AND AS–BUILTS REQUIRED BY PORT ALLEN PUBLIC WORKS AND OWNER. AS–BUILT INFORMATION SHALL BE FURNISHED TO ENGINEER.

ALL WATER PIPES ABOVE 2" SHALL PVC CONFORMING TO AWWA C–900 CLASS 150 WITH A SDR OF 18 OR THICKER. PIPES SHALL BE INSTALLED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF LOUISIANA HEALTH DEPARTMENT, AND CITY OF LAFAYETTE PUBLIC WORKS. ALL PIPES SHALL BE MARKED WITH SOLID CORE DETECTION WIRE AND WARNING TAPE IN ACCORDANCE WITH LUS REQUIREMENTS. ALL WATER LINES OTHER THAN FIRE SPRINKLER LINES SHALL BE TESTED AT 150 PSI. FIRE SPRINKLER LINES SHALL BE TESTED AT 200 PSI. 2"WATER LINES SHALL BE PVC CONFORMING TO ASTM D 2241 AND SHALL BE INSTALLED TO SAME STANDARD AS PIPE ABOVE 2"

ALL REFERENCES TO LA DOTD OR DOTD SHALL MEAN LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT AND REFERENCE TO SPECIFICATIONS SHALL MEAN STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES 2006 EDITION FOR LA DOTD.

BACK FILL OF ALL UTILITIES AND CONDUITS SHALL BE TO 95% STANDARD PROCTOR DENSITY FOR ENTIRE DEPTH OF TRENCH REGARDLESS OF THE LOCATION OF THE PIPE.

CONTRACTOR SHALL INSTALL ALL WATER LINES LOCATED IN OPEN AREAS WITH A MINIMUM COVER OF 48" TO MINIMIZE THE POSSIBILITY OF DAMAGE. LINES LOCATED UNDER PAVEMENT AREA AND NEAR BACK OF CURB MAY BE INSTALLED WITH 36" OF COVER UNLESS ADDITIONAL COVER IS REQUIRED FOR ANOTHER REASON. VALVES AND HYDRANTS SHALL BE FURNISHED WITH EXTRA EXTENSIONS TO COMPLY WITH EXTRA COVER. WHERE CONFLICTS WITH DRAINS AND SEWER LINES EXIST THE WATER LINE SHALL BE INSTALLED BELOW THE CONFLICT WITH A MIN. OF 18" OF SEPARATION.

BECAUSE OF THE USE OF HEAVY CONSTRUCTION EQUIPMENT AROUND BUILDINGS, THE UTILITY CONTRACTOR SHALL NOT EXTEND VALVES BOXES AND METER EQUIPMENT LOCATED IN OPEN AREAS AROUND BUILDINGS TO THEIR FINAL GRADE BUT SHALL LEAVE VALVES AND CONNECTIONS BELOW GRADE WITHOUT EXTENSIONS TO THE SURFACE. THE CONTRACTOR SHALL RETURN TO THE SITE AFTER ALL HEAVY EQUIPMENT IS FINISH AND THEN INSTALL BOXES AND METER EQUIPMENT TO THE SURFACE AND COMPLETE CONSTRUCTION OF THESE ITEMS. VALVE COVERS, METERS, HYDRANT FLANGES, ETC SHALL REMAIN UNCOVERED AND FREE OF DEBRIS TO ALLOW ACCESS. AN INSPECTION OF ALL OF THESE ITEMS SHALL BE MADE AFTER SITE WORK IS FINISHED TO ASSURE THAT ALL SURFACE STRUCTURES ARE ACCESSIBLE. VALVES AND HYDRANTS LOCATED IN THE PAVEMENT AND NEAR BACK OF CURB SHALL BE INSTALLED DURING INITIAL CONSTRUCTION TO ALLOW PAVEMENT TO BE INSTALLED.

DIMENSIONS SHOWN FOR WATER MAIN AND FITTINGS ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR ON DRAWINGS AND IN FIELD. ANY DISCREPANCY SHALL BE BROUGHT TO THE KNOWLEDGE OF THE ENGINEER. SERVICE LOCATIONS SHOWN WERE BASED ON ARCHITECT PLANS HOWEVER DURING CONSTRUCTION IT MAY BE NECESSARY TO SHIFT FINAL SERVICE LOCATIONS. THESE NEW LOCATIONS SHOULD BE DOCUMENTED AND RECORDED FOR AS–BUILT PLANS.

GENERAL SEWER NOTES:

CONTRACTOR SHALL COORDINATE INSTALLATION OF SEWER IMPROVEMENTS WITH CITY OF LAFAYETTE PUBLIC WORKS AND NOTIFY CIVIL ENGINEER BEFORE WORK IS DONE TO ALLOW REQUIRED PRE–CONSTRUCTION MEETING TO BE CONDUCTED BY ENGINEER. A PRE CONSTRUCTION MEETING SHALL BE HELD PRIOR TO ANY UTILITY WORK BEING DONE. CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL RECORDS AND ASBUILTS REQUIRED BY CITY OF PORT ALLEN AND STATE. ALL UTILITIES ARE TO BE INSTALLED ACCORDING TO ALL APPLICABLE STANDARDS AND REQUIREMENTS.

ALL REFERENCES TO LA DOTD OR DOTD SHALL MEAN LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT AND REFERENCE TO SPECIFICATIONS SHALL MEAN STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES 2000 EDITION FOR LA DOTD. BACK FILL OF ALL UTILITIES AND CONDUITS SHALL IN ACORDANCE WITH THE REQUIREMENTS FROM THE GEOTECHNICAL REPORT CONTRACTOR SHALL INSTALL ALL WATER LINES LOCATED IN OPEN AREAS WITH A MINIMUM COVER OF 48" TO MINIMIZE THE POSSIBILITY OF DAMAGE. LINES LOCATED UNDER PAVEMENT AREA AND NEAR BACK OF CURB MAY BE INSTALLED WITH 36" OF COVER UNLESS ADDITIONAL COVER IS REQUIRED FOR ANOTHER REASON. VALVES AND HYDRANTS SHALL BE FURNISHED WITH EXTRA EXTENSIONS TO COMPLY WITH EXTRA COVER.

ALL SEWER LINES AND MANHOLES TO BE TESTED AFTER BUILDING CONSTRUCTION IS COMPLETE TO ASSURE SOUNDNESS AND SHALL BE RETESTED AND VIDEOED IN ACCORDANCE WITH PORT ALLEN PUBLIC WORKS CODES DEPARTMENT REQUIREMENTS AFTER ALL CONSTRUCTION IS COMPLETE TO ASSURE NO DAMAGE OCCURRED DURING CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED PRIOR TO ACCEPTANCE. CONTRACTOR IS TO VERIFY LOCATION OF SEWER SERVICES AT BUILDINGS WITH ARCHITECTURAL PLANS. ALL LINES WITHOUT A MANHOLE ON BOTH ENDS WILL BE INSTALLED WITH A CLEANOUT AT ALL BENDS, WYES, CONNECTIONS AND AT A MAXIMUM SPACING OF 75'. BACK FILL OF ALL SEWER LINES SHALL BE BACKFILLED AND BEDDED AS PER REQUIREMENTS FROM THE GEOTECHNICAL REPORT. CONTRACTOR MAY USE FIL–CRETE AT HIS OPTION IN PARKING AREAS BEGINNING 12" ABOVE PIPE AND STOPPING 15" BELOW PAVEMENT GRADE. ALL SEWER PIPE SHALL BE ASTM D3034 SDR35 PVC PIPE INSTALLED TO MANUFACTURERS REQUIREMENTS. ALL PIPE SHALL BE TESTED IN ACCORDANCE WITH PORT ALLEN PUBLIC WORKS CODES DEPARTMENT REQUIREMENTS AT NO ADDITIONAL COST TO OWNER. ALL MANHOLES SHALL BE CONSTRUCTED AND INSTALLED AS REQUIRED BY LAFAYETTE UTILITY SERVICE REQUIREMENTS'.

LOCAL SEWER&WATER COMPANY – LAFAYETTE UTILITY SERVICE – PHONE: (337) 291–5700

STATE OF LOUISIANA
Travis P. Laurent
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5-20-22

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LAFAYETTE, LOUISIANA 70506
FAX(337) 981–7797

DATE	DESCRIPTION REVISED	BY

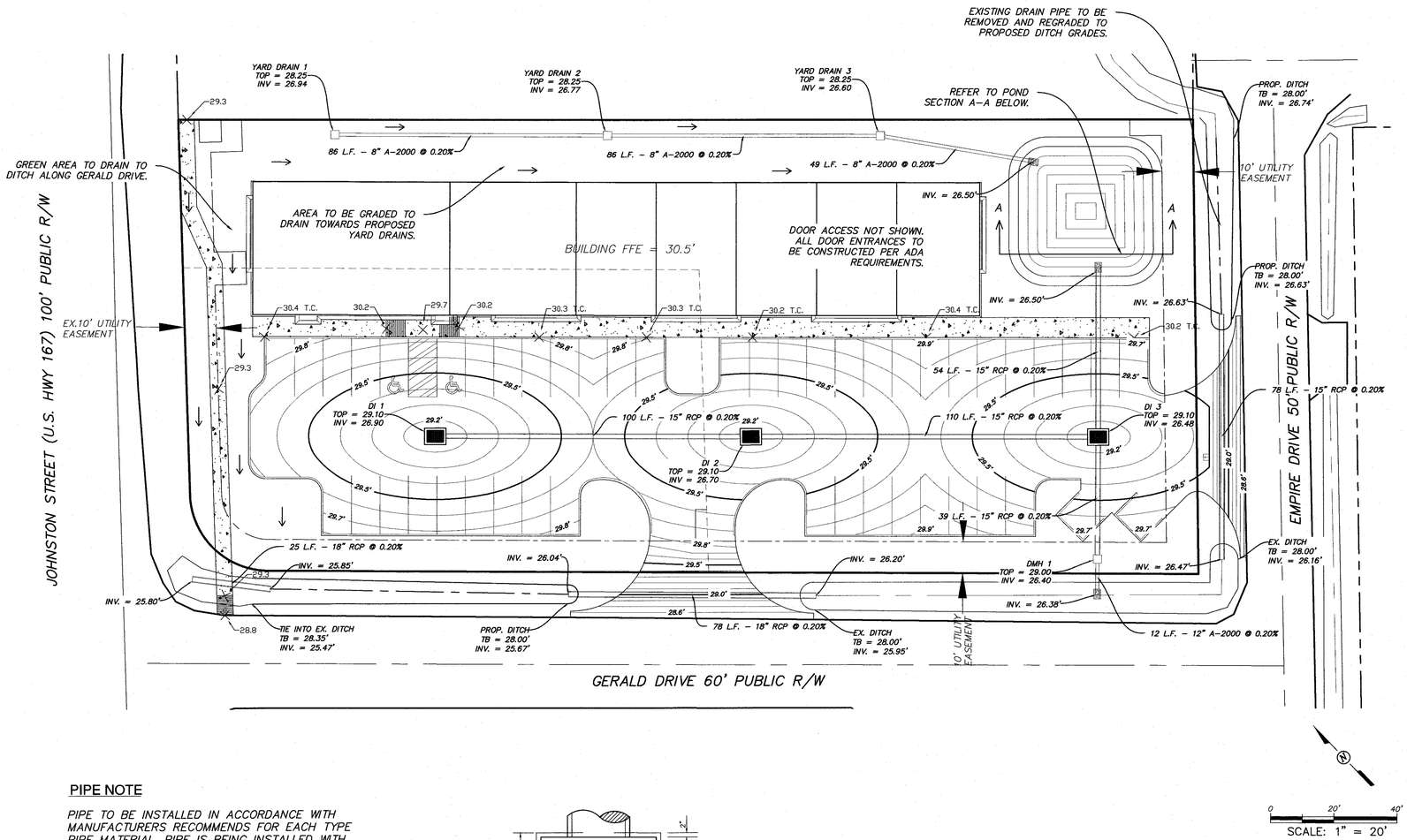
BANGKOK THAI RESTAURANT
LAFAYETTE, LA

UTILITY PLAN

SHEET NO
C1.3

DATE OF PLANS:

BPN: 4975 | SPN: ___
FILE: D | DWG: ___



PIPE NOTE

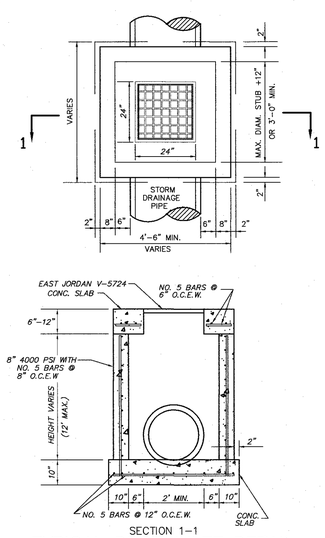
PIPE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDS FOR EACH TYPE PIPE MATERIAL. PIPE IS BEING INSTALLED WITH MINIMAL COVER AND CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN SUFFICIENT COVER OVER PIPE DURING CONSTRUCTION. JOINTS SHALL BE WRAPPED FABRIC IN ACCORDANCE WITH LADOTD SPECIFICATIONS SECTION 701.06. PVC AND SEWER PIPE SHALL BE TESTED FOR ROUNDNESS USING A 95% MANDREL IN ACCORDANCE WITH LADOTD SPECIFICATIONS SECTION 701.09 AS REQUESTED BY OWNER.

PVC DRAINAGE PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM F949 INSTALLED IN ACCORDANCE WITH ASTM D2321 FOR TYPE IV SOILS. JOINTS SHALL MEET REQUIREMENTS OF ASTM D3212 WITH GASKETS PER ASTM F477 AS MANUFACTURED BY CONTECH CONSTRUCTION PRODUCTS, INC. OR EQUAL.

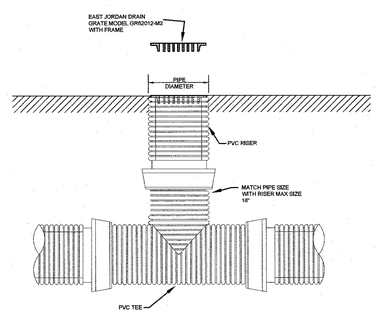
RCP SHALL BE ASTM C76, CLASS III, WALL B. MANUFACTURED AND INSTALLED IN ACCORDANCE WITH LA DOTD SPECIFICATIONS.

SDR 26 PIPE SHALL BE STANDARD SEWER PIPE ASTM D3034. SDR 26 PIPE AND FITTINGS WITH CLEAN OUTS AT BENDS. SEWER PIPE SHALL BE 15" OR LESS UNLESS OTHER WISE NOTED.

ALL BACKFILL IS TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY. SOME PIPE IS BEING INSTALLED WITH MINIMAL COVER UNTIL FINAL PAVEMENT IS INSTALLED AND CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN SUFFICIENT COVER OVER PIPE DURING CONSTRUCTION.



TYPICAL DROP INLET DETAIL



PVC YARD DRAIN

GENERAL NOTES

1.) CONTOURS SHOWN ARE FINISHED PAVEMENT GRADES AND ARE 6" HIGHER AT ALL CURBS.

2.) ALL UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR IS TO NOTIFY DOTTIE SYSTEM 48 HOURS BEFORE ANY EXCAVATION. 1-800-272-3020

3.) CONTRACTOR IS TO INSTALL ALL SIDEWALKS TO PROPER HANDICAP STANDARDS 1:12 MAXIMUM LONGITUDINAL SLOPE AND 1/4" PER FOOT MAXIMUM CROSS SLOPE. AT ALL SLOPES GREATER THAN 1:20 CONCRETE SHALL BE SCORED 1/4" DEEP EVERY 3 INCHES.

4.) SEE ARCHITECTURAL PLANS FOR FINAL LOCATION OF SIDEWALKS.

5.) CONTRACTOR TO USE EXCAVATED TOP SOIL TO FILL BEHIND CURB, GREEN AREAS, SIDE SLOPES OF POND AND TO BUILD BERMS ALONG ROBLEY DRIVE. TOP SOIL SHALL BE FREE FROM ROOTS AND DEBRIS LARGER THAN 1".

6.) CONTRACTOR IS TO GRADE ALL GREEN AREAS TO DROP INLETS/YARD DRAINS AT MIN. SLOPE OF 1%.

7.) PREPARATION OF ALL SIDEWALK SUB-BASE MATERIAL SHALL BE IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS. COMPACTION SHALL BE TO 95% STANDARD PROCTOR DENSITY.

LEGEND

28.7	FINISH CONTOUR 0.1' INTERVALS
29.0	FINISH CONTOUR 0.5' INTERVALS
14.6	PROPOSED SPOT ELEV.

GENERAL SITE PREPARATION

SITE PREPARATION SHALL CONFORM TO THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT ENTITLED "BANGKOK THAI JOHNSTON STREET LAFAYETTE, LA" BY LOUISIANA TESTING & INSPECTION, DATED APRIL 17, 2026 (LTI PROJECT NO. 4693-BO).. THE CONTRACTOR SHOULD REVIEW THIS DOCUMENT PRIOR TO SUBMITTAL OF THEIR PROPOSAL TO PERFORM REQUIRED WORK.

OTHER THAN TREES DESIGNATED TO REMAIN, ALL TREES, SHRUBS, GRASS, CONCRETE, OLD UTILITIES, POWER POLES, ORGANIC MATERIALS SHALL BE REMOVED FROM THE SITE. BASED ON THE GEOTECHNICAL BORINGS, IT IS ESTIMATED THAT APPROXIMATELY 8 INCHES OF STRIPPING SHOULD BE REMOVED FROM THE SURFACE TO EFFECTIVELY CLEAR THE SITE OF ORGANIC MATERIAL. IN SOME AREAS, MORE OR LESS MATERIAL MAY NEED TO BE REMOVED. EXCAVATED AREAS SHALL BE BACK FILLED IN MAXIMUM 12-INCH LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

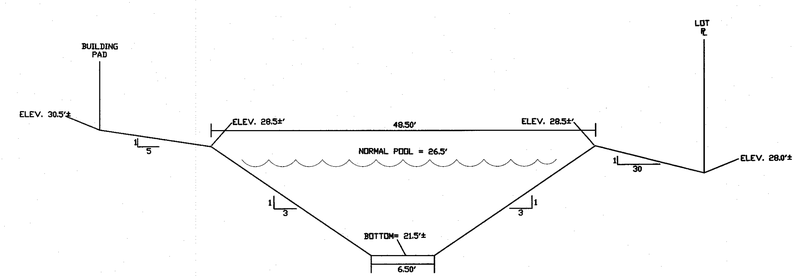
AFTER ALL VISIBLE ORGANIC MATERIAL HAS BEEN EXCAVATED, THE ENTIRE AREA TO BE WORKED SHALL BE PROOF ROLLED WITH A TANDEM AXLE DUMP TRUCK LOADED WITH SOIL (WEIGHING APPROXIMATELY 20 TO 25 TONS). SOILS THAT ARE OBSERVED TO RUT OR DEFLECT EXCESSIVELY (TYPICALLY GREATER THAN 1 INCH) UNDER MOVING LOAD SHOULD BE UNDERCUT AND REPLACED WITH PROPERLY COMPACTED STRUCTURAL FILL MATERIAL. PROOF ROLLING AND UNDERCUTTING SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING RECOMMENDATION FOR THE SITE AND PERFORMED DURING PERIODS OF DRY WEATHER. CARE SHOULD BE TAKEN DURING CONSTRUCTION ACTIVITIES NOT TO ALLOW EXCESSIVE DRYING OR WETTING OF EXPOSED SOILS. THE SUBGRADE SOILS SHOULD BE SCARIFIED AND COMPACTED TO AT LEAST 95% OF THE MATERIALS' SPD MAXIMUM DRY DENSITY, IN ACCORDANCE WITH ASTM PROCEDURES, TO A DEPTH OF AT LEAST 12 INCHES BELOW THE SURFACE.

INSITU SOIL IN THIS AREA MAY CONTAIN SILTY MATERIAL. THIS MATERIAL IS VERY SENSITIVE TO MOISTURE AND MAY BECOME UNSTABLE IF EXCESSIVE MOISTURE IS ALLOWED TO SEEP INTO THIS MATERIAL. IF MOISTURE IS ALLOWED TO SOAK INTO THE SOIL BY ALLOWING WATER TO STAND IN LOW AREAS OR THROUGH IMPROPER GRADING OF SURFACE DRAINAGE OR BY WORKING THE SOIL BEFORE THE SURFACE HAS DRIED OUT, THESE SOILS WILL LOSE THEIR ABILITY TO SUPPORT CONSTRUCTION EQUIPMENT AND WILL BECOME VERY SOFT AND BEGIN TO PUMP UNDER CONSTRUCTION ACTIVITIES. IF THIS OCCURS, THE MATERIAL MUST BE AIR DRIED, PROCESSED WITH CEMENT AT A RATE RECOMMENDED BY THE GEOTECHNICAL ENGINEERS, OR THE WET MATERIAL REMOVED AND REPLACED WITH A COMPACTED DRIED FILL SOIL CAPABLE OF SUPPORTING CONSTRUCTION EQUIPMENT. NOTE IF MOISTURE REACHES DOWN BELOW THE TOP LAYER OF SOIL IT MAY BE NECESSARY TO FOLLOW THE ABOVE PROCEDURES FOR MORE THAN JUST THE TOP LIFT OF INSITU SOIL. IF THIS CONDITION SHOULD OCCUR BECAUSE OF THE LACK OF PREPARATION OF THE CONTRACTOR, THIS WORK WILL BE PERFORMED AT HIS EXPENSE.

ONCE THE INSITU SOIL HAS BEEN PROOF ROLLED AND ACCEPTED BY THE OWNERS REPRESENTATIVE, STRUCTURAL FILL SHALL BE ADDED IN MAXIMUM 12-INCH LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY. FILL MEETING THE REQUIREMENTS OF THE GEOTECHNICAL REPORT (LOW PLASTICITY CLAY (CL) WITH A LIQUID LIMIT OF 40 OR LESS AND A PLASTICITY INDEX BETWEEN 12 AND 25) WILL BE USED TO BRING THE SITE TO THE REQUIRED GRADES. DEPENDING ON WEATHER CONDITIONS AT THE TIME OF CONSTRUCTION, THE SITE MAY BE STABILIZED TO PROVIDE WEATHER PROOFING DURING THE WET MONTHS. THE SITE CONTRACTOR IS TO COORDINATE WITH THE GENERAL BUILDING CONTRACTOR TO VERIFY IF SITE STABILIZATION IS REQUIRED. CEMENT OR LIME STABILIZATION FOR WEATHER PROOFING (PERCENTAGE OF CEMENT TREATMENT BY VOLUME) SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.

GROUNDWATER CONDITIONS AT THE SITE COULD FLUCTUATE DEPENDING ON RAINFALL AND OTHER CLIMATIC CONDITIONS. MITIGATION OF THE NEAR SURFACE GROUNDWATER OR PERCHED WATER CONDITION MAY BE ACCOMPLISHED THROUGH THE USE OF BLEEDER DITCHES. SHOULD UNCONTROLLABLE GROUNDWATER INFILTRATION INTO EXCAVATIONS BE EXPERIENCED DURING CONSTRUCTION, CONTRACTOR SHALL CONTACT GEOTECHNICAL ENGINEER FOR FURTHER RECOMMENDATIONS.

FOR INSTALLATION OF UTILITIES AND DRAINAGE, CONTRACTOR SHALL PROVIDE A UNIT PRICE FOR STONE BACKFILL BECAUSE OF SUBSURFACE MOISTURE WHICH MAY BE ENCOUNTERED. BACKFILL OF TRENCHES SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY WITH MOISTURE WITHIN 2% OF OPTIMUM MOISTURE. IF NECESSARY, MATERIAL CAN BE AIR DRIED TO REDUCE MOISTURE CONTENT BEFORE USING FOR BACKFILL AT THE CONTRACTOR'S DISCRETION. CRUSHED STONE MAY BE USED FOR BACK FILL OF PIPE. ALL INSTALLATION OF UTILITY AND DRAINAGE PIPE SHALL BE IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS. IF A-2000 PVC PIPE IS USED, ALL TRENCHES SHALL BE BACKFILLED TO MANUFACTURER'S SPECIFICATION.



DETENTION POND 1 A-A
N.T.S

STATE OF LOUISIANA
Travis P. Laurent
License No. 32201
PROFESSIONAL ENGINEER
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5-20-26

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DATE	DESCRIPTION REVISED	BY

BANGKOK THAI RESTAURANT
LAFAYETTE, LA

GRADING & DRAINAGE PLAN

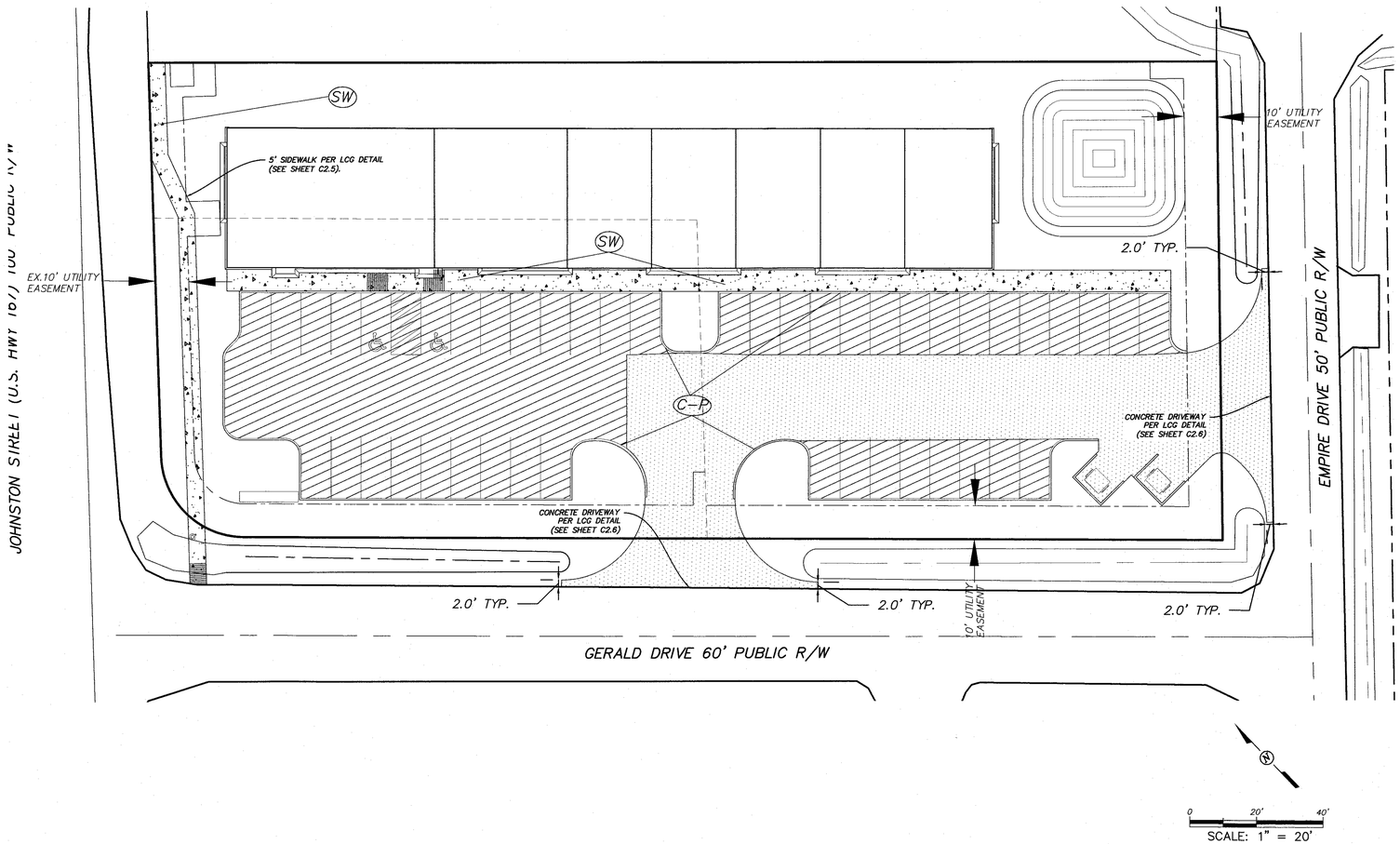
SHEET NO
C1.4

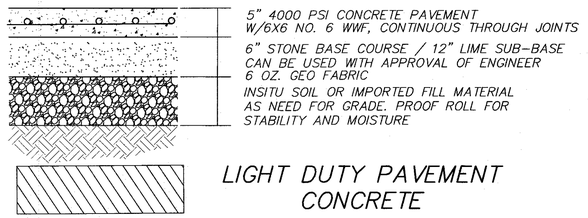
DATE OF PLANS:

BPN: 4975 SPN: ___
FILE: D DWG: ___

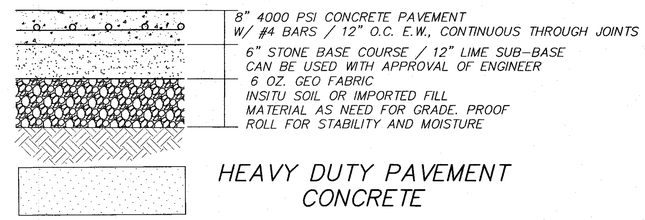
GENERAL NOTES:

1. CONTRACTOR TO USE CAUTION WHEN PREPARING PARKING LOT BASE OVER DRAINAGE LINES AND USE CAUTION TO AVOID DAMAGE TO STORM DRAIN. IF REQUIRED CONTRACTOR SHALL ROLL MATERIAL OFF TOP OF PIPES FOR PROCESSING AND RECOMPACTED AFTER PROCESSING.
2. ALL CURB IS TO BE 6" CURB WITH ½" REBARS THROUGH CENTER OF CURB. ALL EXPANSION AND CONSTRUCTION JOINTS IN CURB ARE TO MATCH PAVEMENT JOINTS.
3. SIDEWALK TO HAVE MAXIMUM 5% LONGITUDINAL SLOPE EXCEPT AT HANDICAP RAMPS (OR OTHERWISE SHOWN) AND 2% CROSS SLOPE.
4. ALL PAVEMENT AND SIDEWALK CONCRETE TO BE 4000PSI WITH REINFORCING STEEL AS SHOWN ON DETAILS. REINFORCEMENT TO BE CENTERED IN PAVEMENT.
5. SIDEWALK CONSTRUCTION JOINTS TO BE 5' ON CENTER WITH EXPANSION JOINTS AT ALL CHANGE IN DIRECTIONS WITH MAXIMUM 100' BETWEEN EXPANSION JOINTS.
6. CONTRACTOR TO PROCESS BASE 12" DEEP TO A MIN. DISTANCE OF 12" BEHIND BACK OF CURB PRIOR TO BEGINNING ANY PAVEMENT CONSTRUCTION.

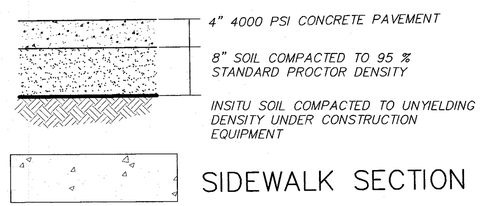




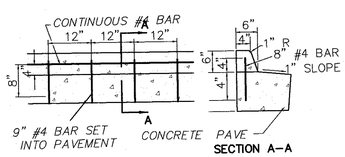
LIGHT DUTY PAVEMENT CONCRETE



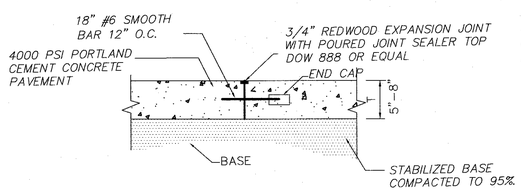
HEAVY DUTY PAVEMENT CONCRETE



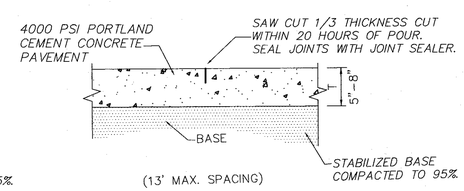
SIDEWALK SECTION



PIN ON BARRIER CURB DETAILS FOR CONCRETE PAVE.



TYPICAL EXPANSION JOINT



TYPICAL CJ JOINT

LEGEND

- LIGHT DUTY CONCRETE PAVEMENT
- HEAVY DUTY CONCRETE PAVEMENT
- 4" CONC. SIDEWALK
- (C-P) 6" PIN ON BARRIER CURB ON CONCRETE PAVEMENT
- SIDEWALK HANDICAP RAMP WITH SCORED MARKER

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DATE	DESCRIPTION REVISED	BY

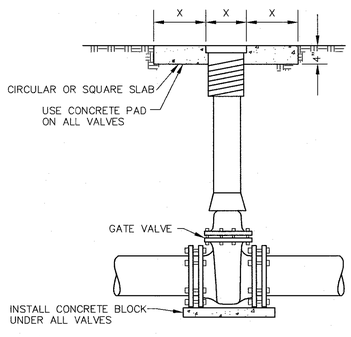
BANGKOK THAI RESTAURANT
LAFAYETTE, LA

PAVING PLAN

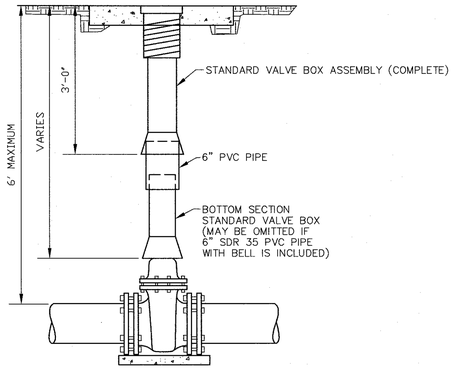
SHEET NO
C1.5

DATE OF PLANS:

BPN: 4975 SPN: ___
FILE: D DWG: ___

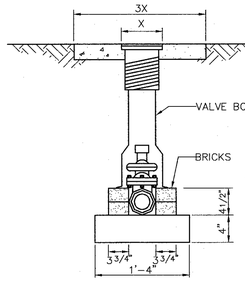


TYPICAL VALVE & BOX INSTALLATION

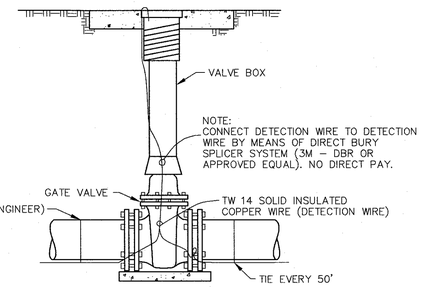


TYPICAL VALVE & BOX INSTALLATION BELOW NORMAL BURY

NO VALVE WILL BE INSTALLED ON A SECTION OF MAIN WITH GREATER THAN 6' OF COVER WITHOUT SPECIFIC APPROVAL FROM THE ENGINEER.

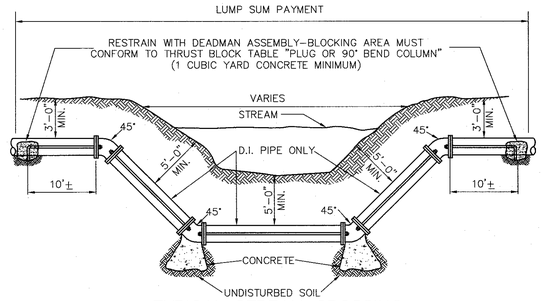


TYPICAL 2"VALVE & BOX INSTALLATION

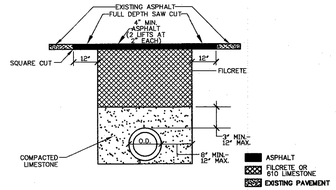


TYPICAL DETECTION WIRE INSTALLATION

NOTE: RESTRAIN 6", & 8" PIPE BY MEANS OF TWO ZINC COATED ALL THREAD RODS. RESTRAIN 10" AND LARGER PIPE BY MEANS OF FOUR ZINC COATED ALL THREAD RODS.



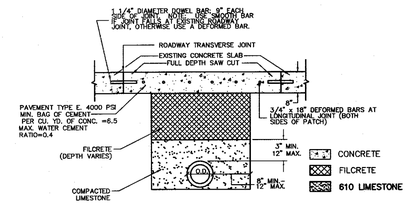
TYPICAL STREAM CROSSING



TYPICAL STREET CUT REPAIR FOR ASPHALT STREETS

NOTES:

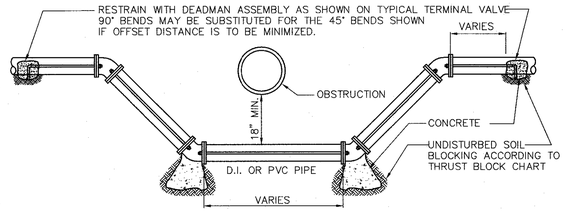
1) HOT MIX ASPHALT TO BE COMPACTED TO 92% DENSITY MINIMUM. FOR A MINIMUM OF FOUR INCHES (4") THICK, CONSTRUCTED IN TWO (2) – TWO INCH (2") LIFTS.
2) FILCRETE MIX SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD.
3) 610 LIMESTONE MUST BE COMPACTED IN 12" LIFTS TO 95% DENSITY FOR EACH LIFT. A VIBRATORY COMPACTOR WILL BE REQUIRED.
4) TACK COAT TO BE APPLIED PRIOR TO ASPHALT LAYING.
5) ALL PAVEMENT STRIPING AND/OR RAISED PAVEMENT REFLECTORS DESTROYED SHALL BE REPLACED. MATERIAL AND INSTALLATIONS SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS FOR THESE ITEMS.



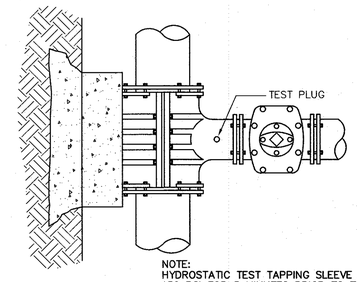
TYPICAL STREET REPAIR FOR UTILITY LINE REHABILITATION FOR CONCRETE STREETS

NOTES:

1) EXISTING CONCRETE MUST BE DRILLED & DOWELED BEFORE NEW CONCRETE IS POURED. DOWEL BARS AT TRANSVERSE JOINTS MUST BE 1 1/4" IN DIAMETER, 18" LONG WITH 9" EPOXYED INTO EXISTING CONCRETE SPACED AT 12" ON CENTER. USE SMOOTH DOWEL BARS AT EXISTING ROADWAY JOINT ONLY. OTHERWISE USE DEFORMED DOWEL BARS. DOWEL BARS AT LONGITUDINAL JOINT MUST BE 3/4" IN DIAMETER DEFORMED BARS, 18" LONG WITH 9" EPOXYED INTO EXISTING CONCRETE. MUST BE 18" ON CENTER ALONG LONGITUDINAL SIDES OF STREET CUT PATCH.
2) CONCRETE TEST CYLINDERS SHALL BE MADE BY THE CONTRACTOR OR TESTING LABORATORY AT CONTRACTOR'S EXPENSE, AND BREAK RESULTS SHALL BE FORWARDED TO LAFAYETTE CONSOLIDATED GOVERNMENT, PUBLIC WORKS DEPARTMENT. TRAFFIC MAY BE PUT ON CONCRETE PATCH WHEN PSI STRENGTH IS REACHED.
3) A BROOM FINISH IS REQUIRED AND CONCRETE CURED BY AN APPROVED METHOD.
4) FILCRETE MIX SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARDS AND SHALL BE POURED FLUSH WITH EXISTING CONCRETE ROADWAY SURFACE.
5) ALL NEW JOINTS SHALL CONFORM TO THE EXISTING JOINTS.
6) 610 LIMESTONE MUST BE COMPACTED IN 12" LIFTS TO 95% DENSITY FOR EACH LIFT. A VIBRATORY COMPACTOR WILL BE REQUIRED.
7) ALL PAVEMENT STRIPING AND/OR RAISED PAVEMENT REFLECTIONS DESTROYED SHALL BE REPLACED. MATERIAL AND INSTALLATION SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS FOR THESE ITEMS.

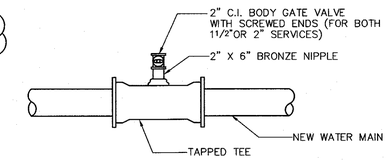


TYPICAL OFFSET – 6" MAIN AND LARGER

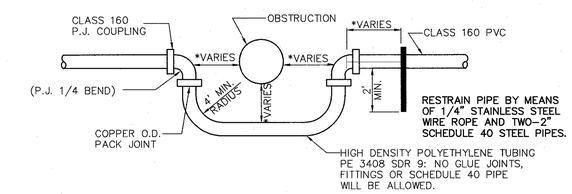


NOTE:
HYDROSTATIC TEST TAPPING SLEEVE AT 150 PSI FOR 5 MINUTES PRIOR TO TAPPING

TYPICAL TAPPING SLEEVE & VALVE

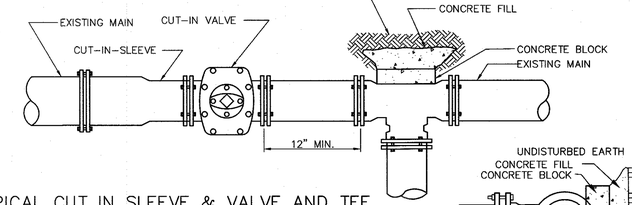


TYPICAL TAPPED TEE CONNECTION

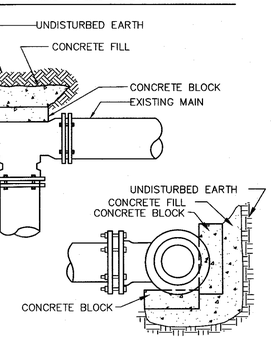


RESTRAIN PIPE BY MEANS OF 1/4" STAINLESS STEEL WIRE ROPE AND TWO–2" SCHEDULE 40 STEEL PIPES.

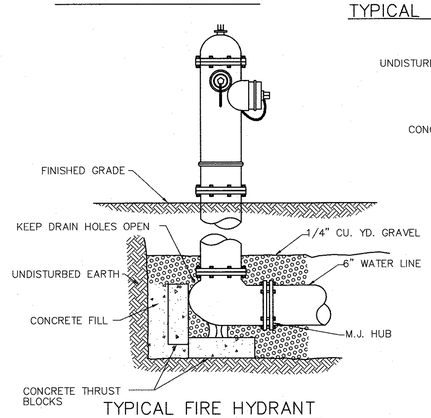
TYPICAL OFFSET/STREAM CROSSING 2" MAIN
(LUS APPROVAL REQUIRED)



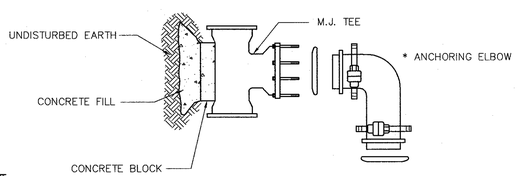
TYPICAL CUT IN SLEEVE & VALVE AND TEE



THRUST BLOCKS AT TEES

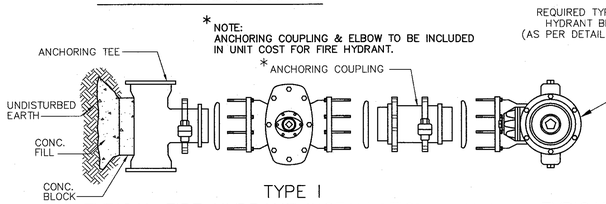


TYPICAL FIRE HYDRANT



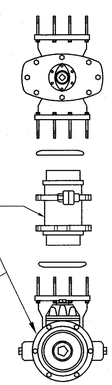
THE FIRE HYDRANT MAIN NOZZLE SHALL BE INSTALLED PERPENDICULAR AND FACING THE ROADWAY CENTER LINE

FIRE HYDRANT LEAD – LENGTH OF PIPING FROM SUPPLY MAIN TO HYDRANT IN ADDITION TO THE TYPICAL INSTALLATION. PAYMENT SHALL BE PER FOOT OF PIPING. RESTRAIN AT NO ADDITIONAL PAY.



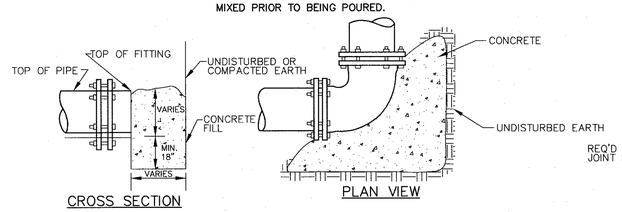
TYPE I
TYPICAL FIRE HYDRANT INSTALLATION – M.J.

* NOTE:
ANCHORING COUPLING & ELBOW TO BE INCLUDED IN UNIT COST FOR FIRE HYDRANT.



TYPE II
TYPICAL FIRE HYDRANT INSTALLATION – M.J.

NOTE: CONCRETE FILL (1–2–5) MUST BE POURED IN PLACE. COARSE AGGREGATE IS REQUIRED. FILL MUST BE THOROUGHLY MIXED PRIOR TO BEING POURED.

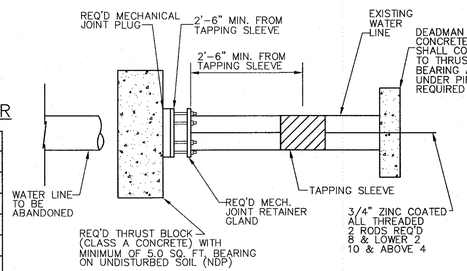


CROSS SECTION

PLAN VIEW

TYPICAL THRUST BLOCKING FOR ALL BENDS 6" AND LARGER

THRUST BLOCK BEARING AREA IN SQUARE FEET				
PIPE SIZE	PLUG OR 90° BEND	45° BEND	22–1/2° BEND	TEE
6"	3	2	1.5	3
8"	5	2.5	2	4
10"	7	4	3	5
12"	10	6	5	7
16"	14	8	7	10
18"	18	12	9	14



TYPICAL CUT, PLUG & ABANDON

GENERAL:

NO VALVE SHALL BE OPERATED TO ALLOW WATER TO BE TRANSMITTED FROM A LAFAYETTE UTILITIES SYSTEM SOURCE WITHOUT THE DIRECT SUPERVISION OF LUS. VIOLATORS WILL BE PROSECUTED.

DEAD END MAINS MUST BE RESTRAINED BY MEANS A CONCRETE DEADMAN SYSTEM.

REQUIREMENTS

1. ALL FIRE HYDRANTS AND VALVE BOXES SHALL BE INSTALLED TO MATCH THE FINISHED ELEVATION/GRADE.
2. ALL FITTINGS, VALVES AND FIRE HYDRANTS MUST BE SUPPORTED THROUGHOUT BY CONCRETE BLOCKING.
3. BOLTS MUST BE OPERABLE (FREE OF CONCRETE).
4. ALL FITTINGS, VALVES AND FIRE HYDRANTS, PIPE AND SERVICE TUBING MUST CONFORM TO THE CURRENT LAFAYETTE UTILITIES SYSTEM'S SPECIFICATIONS.
5. RESTRAIN FITTINGS TO CASINGS.
6. ALL INSTALLATIONS STANDARDS/METHODS NOT SPECIFICALLY STATED IN THE CURRENT LAFAYETTE UTILITIES SYSTEM'S SPECIFICATIONS MUST ADHERE TO THE STANDARD OF JURISDICTION (AWWA, NFPA, MANUFACTURER STANDARDS).

STATE OF LOUISIANA
Travis P. Laurent
License No. 32201
PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
5-20-26

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LAND SURVEYORS
104 WESTMARK BLVD, SUITE 2A
LAFAYETTE, LOUISIANA 70508
PHONE (337) 981-7792
FAX(337) 981-7797

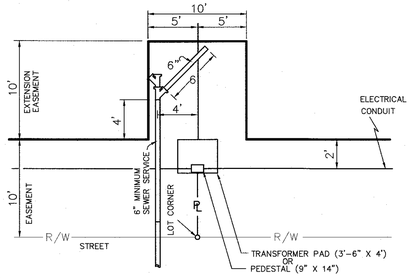
DESCRIPTION REVISED	BY	DATE

BANGKOK THAI RESTAURANT
LAFAYETTE, LA

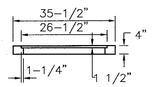
WATER DETAILS

SHEET NO
C2.1

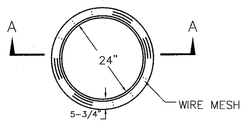
DATE OF PLANS:
BPN: 4975 SPN:
FILE: D DWG:



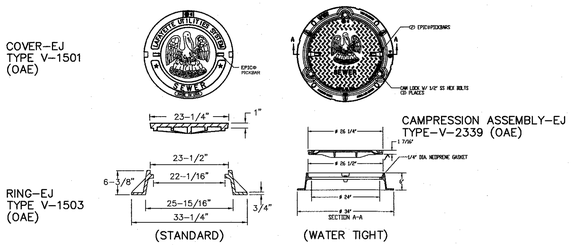
SEWER SERVICE IN UTILITIES EASEMENT



SECTION A–A

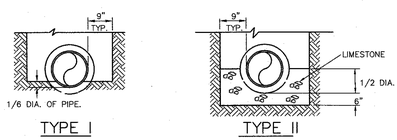


CONCRETE ADJUSTING DONUT

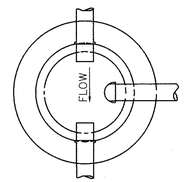


MANHOLE FRAME AND COVER

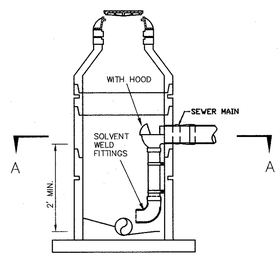
NOTE: MANHOLES LOCATED OUTSIDE OF THE PAVED RIGHT-OF-WAY AND OUTSIDE OF OTHER PAVED SURFACES, SHALL USE TYPE V-1503 W/ V-1501. MANHOLES LOCATED INSIDE OF THE PAVED RIGHT-OF-WAY SURFACES OR INSIDE OTHER PAVED SURFACES, SHALL USE TYPE V-2339 CAMPRESSION ASSEMBLY



TYPICAL SEWER FOUNDATIONS



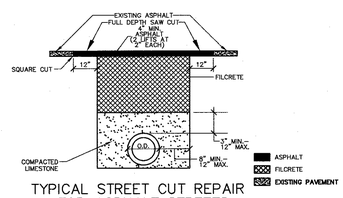
SECTION A–A



NOTE: DROP TO BE THE SAME SIZE AS THE SEWER MAIN.

TYPICAL MAIN LINE DROP MANHOLE

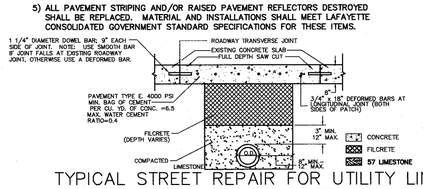
NOTE: DROP SYSTEM SHALL BE RELINER INSIDE DROP SYSTEM OR APPROVED EQUAL.



TYPICAL STREET CUT REPAIR FOR ASPHALT STREETS

NOTES:

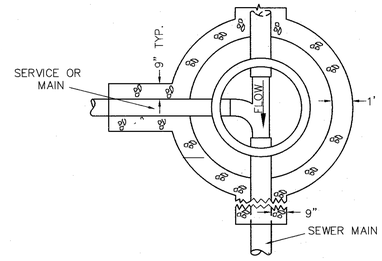
1) HOT MIX ASPHALT TO BE COMPACTED TO 92% DENSITY MINIMUM. FOR A MINIMUM OF FOUR INCHES (4") THICK, CONSTRUCTED IN TWO (2) – TWO INCH (2") LIFTS.
2) FILCRETE MIX SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD.
3) 57 LIMESTONE MUST BE COMPACTED IN 12" LIFTS TO 95% DENSITY FOR EACH LIFT. A VIBRATORY COMPACTOR WILL BE REQUIRED.
4) TACK COAT TO BE APPLIED PRIOR TO ASPHALT LAYING.
5) ALL PAVEMENT STRIPING AND/OR RAISED PAVEMENT REFLECTORS DESTROYED SHALL BE REPLACED. MATERIAL AND INSTALLATIONS SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS FOR THESE ITEMS.



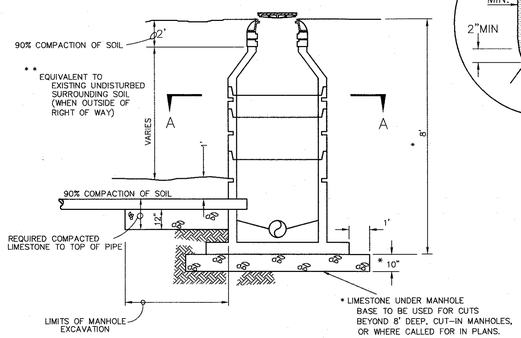
TYPICAL STREET REPAIR FOR UTILITY LINE REHABILITATION FOR CONCRETE STREETS

NOTES:

1) EXISTING CONCRETE MUST BE DRILLED & DOWELED BEFORE NEW CONCRETE IS POURED. DOWEL BARS AT TRANSVERSE JOINTS MUST BE 1 1/4" IN DIAMETER, 18" LONG WITH 9" EPOXYED INTO EXISTING CONCRETE SPACED AT 12" ON CENTER. USE SMOOTH DOWEL BARS AT EXISTING ROADWAY JOINT ONLY. OTHERWISE USE DEFORMED DOWEL BARS. DOWEL BARS AT LONGITUDINAL JOINT MUST BE 3/4" IN DIAMETER DEFORMED BARS, 18" LONG WITH 9" EPOXYED INTO EXISTING CONCRETE. MUST BE 18" ON CENTER ALONG LONGITUDINAL SIDES OF STREET CUT PATCH.
2) CONCRETE TEST CYLINDERS SHALL BE MADE BY THE CONTRACTOR OR TESTING LABORATORY AT CONTRACTOR'S EXPENSE, AND BREAK RESULTS SHALL BE FORWARDED TO LAFAYETTE CONSOLIDATED GOVERNMENT, PUBLIC WORKS DEPARTMENT. TRAFFIC MAY BE PUT ON CONCRETE PATCH WHEN PSI STRENGTH IS REACHED.
3) A BROOM FINISH IS REQUIRED AND CONCRETE CURED BY AN APPROVED METHOD.
4) FILCRETE MIX SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARDS AND SHALL BE POURED FLUSH WITH EXISTING CONCRETE ROADWAY SURFACE.
5) ALL NEW JOINTS SHALL CONFORM TO THE EXISTING JOINTS.
6) 57 LIMESTONE MUST BE COMPACTED IN 12" LIFTS TO 95% DENSITY FOR EACH LIFT. A VIBRATORY COMPACTOR WILL BE REQUIRED.
7) ALL PAVEMENT STRIPING AND/OR RAISED PAVEMENT REFLECTIONS DESTROYED SHALL BE REPLACED. MATERIAL AND INSTALLATION SHALL MEET LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS FOR THESE ITEMS.



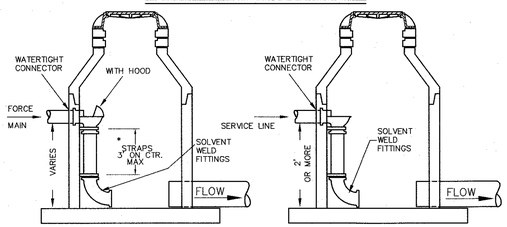
SECTION A–A



TYPICAL BACKFILL FOR SEWER MANHOLE

** NOTE: COMPACTION WITHIN THE RIGHT OF WAY SHALL BE 90% STANDARD PROCTOR DENSITY IN 12" LIFTS. 95% WHEN ON SHOULDER OR EDGE OF ROAD

INSIDE MANHOLE DROPS

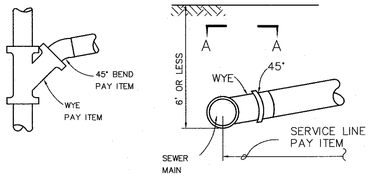


FORCE MAIN TIE–IN

SERVICE INTO MANHOLE

* 1/8" X 1" STAINLESS STEEL STRAP, ANCHOR TO WALLS WITH S.S. BOLTS. S.S. STRAP AND BOLTS ARE TO BE A MINIMUM GRADE TYPE 316

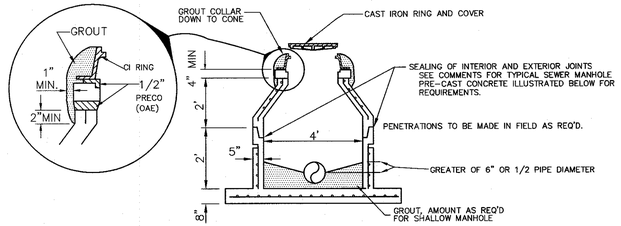
NOTE: 1) DROP SYSTEM SHALL BE RELINER INSIDE DROP SYSTEM OR APPROVED EQUAL.
2) FOR FORCE MAIN TIE–IN, THE INTERIOR SURFACES OF THE RECEIVING MANHOLE SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.



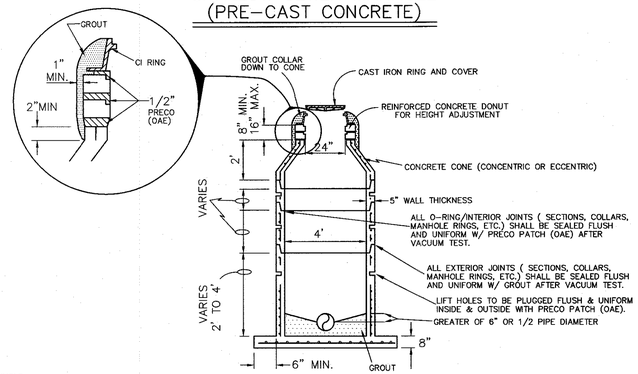
SECTION A–A

PROFILE

SEWER SERVICE CONNECTION (WITHOUT RISER)



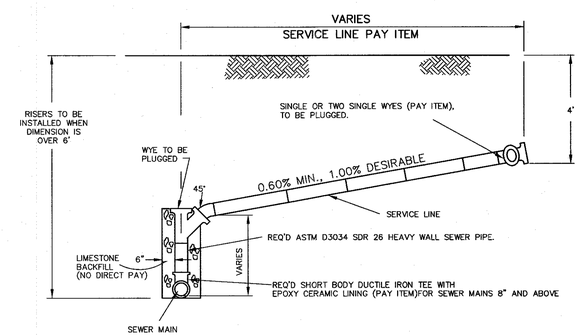
SHALLOW SEWER MANHOLE (PRE–CAST CONCRETE)



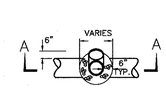
TYPICAL SEWER MANHOLE (PRE–CAST CONCRETE)

NOTES: SHALLOW AND TYPICAL SEWER MANHOLE (PRE–CAST CONCRETE)

1) ALL SECTIONS ARE CUSTOM MADE AND CONFORM TO ASTM SPECIFICATIONS DESIGNATION C–478 OR LATEST REVISION FOR PRECAST CONCRETE MANHOLE, RISERS, AND TOPS.
2) MAINS AND SERVICES SHALL EXTEND 6" INTO MANHOLES.
3) INVERT TURNS SHALL BE LONG RADIUS.
4) OPENINGS FOR SEWER PIPE CAN BE MADE AT ANY LOCATION BELOW CONCRETE DONUT'S.
5) WATERTIGHT CONNECTIONS SHALL BE INSTALLED ON ALL MANHOLE PENETRATIONS.
6) ALL PIPE PENETRATIONS SHALL BE CORED AND REQUIRE PRECO PATCH (OAE) INSIDE AND OUTSIDE.
7) MANHOLES OUTSIDE OF THE PAVED RIGHT–OF–WAY OR OTHER PAVED SURFACES SHALL HAVE A STAINLESS STEEL "RAINSTOPPER" MANHOLE COVER INSERT.

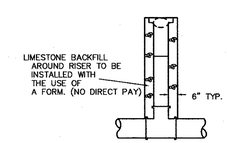


SEWER SERVICE CONNECTION (WITH RISER)



PLAN VIEW

BACKFILL FOR 6" SERVICE RISER



SECTION A–A

STATE OF LOUISIANA
Travis P. Laurent
License No. 32201
PROFESSIONAL ENGINEER
IN
5-20-16
CIVIL ENGINEERING

PAUL L. MIERS ENGINEERING, LLC
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104 WESTMARK BLVD, SUITE 2A
LAFAYETTE, LOUISIANA 70506
PHONE: (337) 981-7792
FAX(337) 981-7797

DATE	DESCRIPTION REVISED	BY

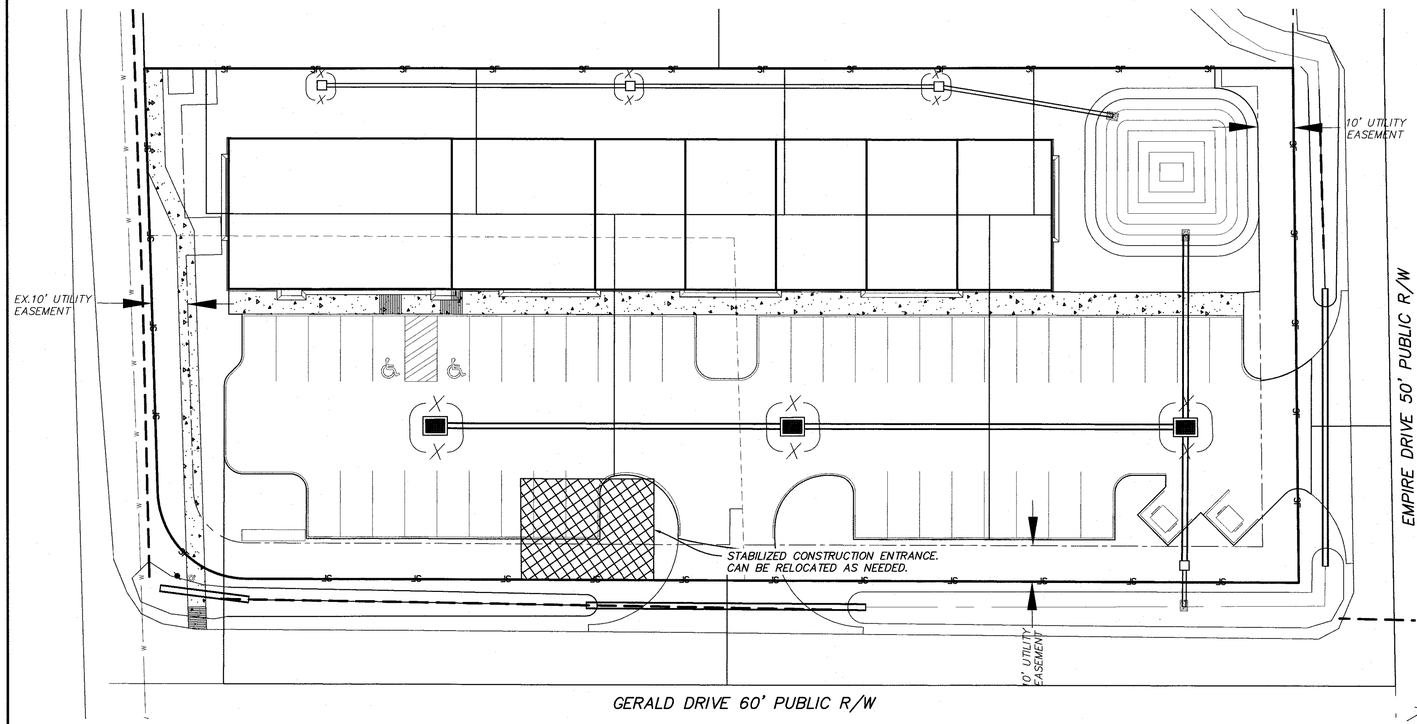
BANGKOK THAI RESTAURANT
LAFAYETTE, LA

SEWER DETAILS

SHEET NO
C2.2

DATE OF PLANS:

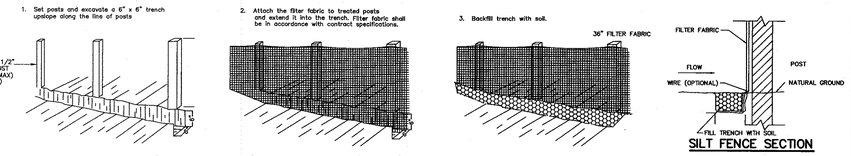
BPN: 4975 | SPN: ___
FILE: D | DWG: ___



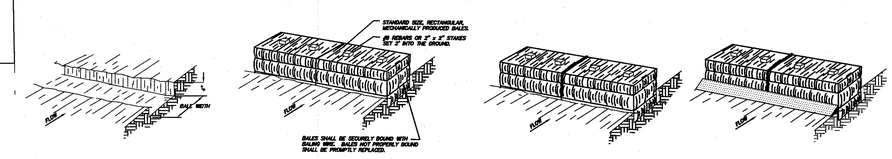
SCALE: 1" = 20'

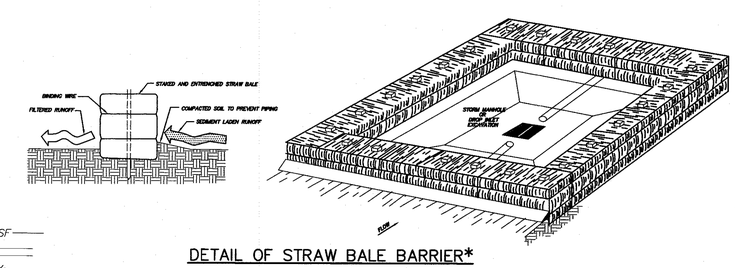
EROSION CONTROL NOTES

1. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO INSURE COMPLIANCE WITH ALL APPLICABLE STATE AND FEDERAL DISCHARGE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE USE OF SILT FENCING OR OTHER MEANS TO CONTROL THE DISCHARGE OF MATERIALS INTO THE EXISTING SYSTEM/OUTFALL. IN ADDITION, ALL SITE DRAINAGE STRUCTURES SHALL BE CLEAN AND FREE OF SILT AND DEBRIS AT THE TIME OF FINAL INSPECTION.
2. IMMEDIATELY AFTER THE ESTABLISHMENT OF CONSTRUCTION ENTRANCES, ALL PERIMETER EROSION CONTROL DEVICES AND STORM WATER MANAGEMENT DEVICES SUCH AS PONDS, HAY BALES, ETC. SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
3. ADDITIONAL EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE 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 CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN BE REPORTED TO THE ENGINEER IMMEDIATELY.
4. THE LOCATIONS OF EROSION CONTROL DEVICES SHALL BE ADJUSTED AS CONSTRUCTION PROGRESSES TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.
5. ANY FAILURE OF ANY EROSION CONTROL DEVICE TO FUNCTIO'N AS INTENDED FOR ANY REASON SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
6. EROSION CONTROL DEVICES SHALL BE INSPECTED WEEKLY, AFTER EACH RAIN EVENT, AND REPAIRED BY GENERAL CONTRACTOR AS NECESSARY.
7. EROSION CONTROL DEVICES SHALL BE CLEANED WHEN SILT EXCEEDS 12" IN DEPTH.
8. EROSION CONTROL DEVICES SHALL BE REPAIRED AS NECESSARY TO MAINTAIN A FUNCTIONING EROSION CONTROL SYSTEM.
9. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.
10. STORM WATER DETENTION PONDS SHALL BE CLEANED AS SPECIFIED WHEN DIRECTED BY THE OWNERS, ARCHITECT AND CIVIL ENGINEER. IN 7 ABOVE AND AFTER PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
11. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEEDING.
12. ALL DISTURBED AREAS WITH SLOPES 2:1 OR FLATTER WHICH ARE NOT STABILIZED BY OTHER MEASURES SHALL BE SEEDED.
13. ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON-SITE INSPECTION.
14. CONTRACTOR SHALL REMOVE ANY DIRT AND TRASH DISPOSED DURING CONSTRUCTION FOR ALL NEW AND EXISTING DRAINAGE STRUCTURES.



SILT FENCE SECTION





DETAIL OF STRAW BALE BARRIER*

*CONTRACTOR MAY USE 6 OZ. FILTER FABRIC WRAPPED AROUND DROP INLET GRATE IN LIEU OF STRAW BALES AFTER DROP INLETS ARE IN PLACE. CONTRACTOR SHALL MAINTAIN FABRIC FREE OF MUD AND TRASH.

LEGEND

SILT FENCE	—SF—
STORM DRAIN	
HAY BALE	

STATE OF LOUISIANA
Travis P. Laurent
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5-20-26

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LAFAYETTE, LOUISIANA 70506
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DESCRIPTION REVISED	BY	DATE

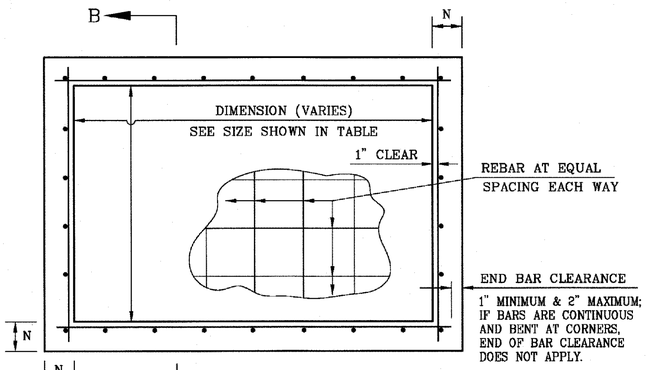
BANGKOK THAI RESTAURANT
LAFAYETTE, LA

EROSION CONTROL PLAN

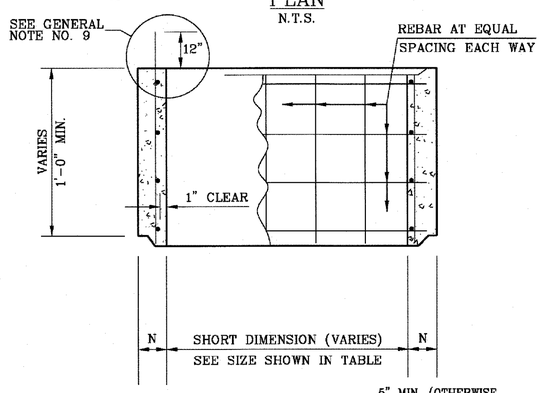
SHEET NO
C2.3

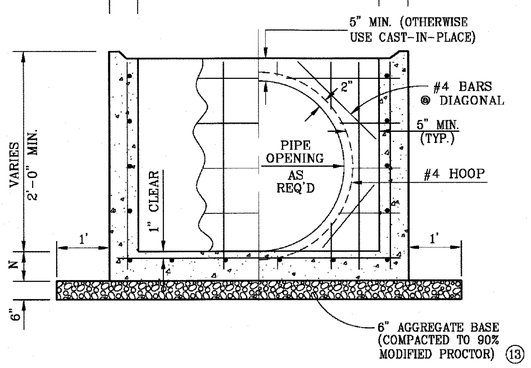
DATE OF PLANS:

BPN: 4975 SPN: ____
FILE: D DWG: ____

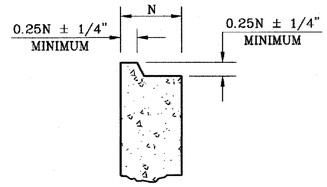


PLAN
N.T.S.

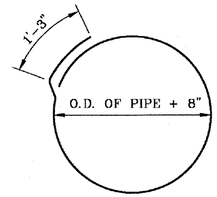




SECTION B-B
N.T.S.



JOINT DETAIL
N.T.S.



#4 HOOP
N.T.S.

PRECAST UNITS FOR CATCH BASINS & MANHOLES

MAX. HT.	N	4' MAX. DIMENSION			6' MAX. DIMENSION			8' MAX. DIMENSION			10' MAX. DIMENSION		
		⊙ TYPICAL SIZES 3'x3', 4'x4'			⊙ TYPICAL SIZES 6'x4', 6'x6'			⊙ TYPICAL SIZES 8'x4', 8'x6', 8'x8'			⊙ TYPICAL SIZES 10'x4', 10'x6', 10'x8', 10'x10'		
		BAR SIZE	SPACING* Inches	As⊠ in²/ft	BAR SIZE	SPACING* Inches	As⊠ in²/ft	BAR SIZE	SPACING* Inches	As⊠ in²/ft	BAR SIZE	SPACING* Inches	As⊠ in²/ft
Feet	Inches												
8	6	4	12	0.20	4	8	0.30	4	5.5	0.44	5	5.5	0.68
14	6	4	9	0.27	4	6	0.40	5	5	0.74	5	4.0	0.93
20	6	4	7	0.34	4	4.5	0.53						

⊙ OTHER SIZES ARE ACCEPTABLE AS LONG AS THE DIMENSIONS DO NOT EXCEED THE MAXIMUM DIMENSIONS.

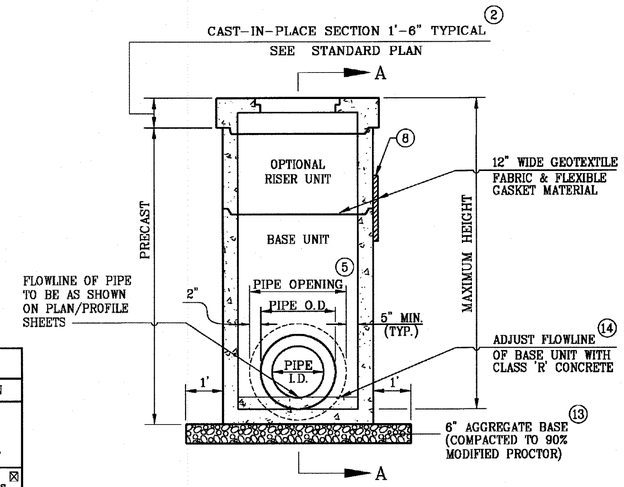
* BAR SPACING APPLIES TO BOTH DIRECTIONS AND AT ALL LOCATIONS.

⊠ BAR SIZES AND SPACING MAY DIFFER FROM VALUES SHOWN, BUT THE AREA OF STEEL (As) SHALL BE EQUAL TO OR GREATER THAN VALUE SHOWN, AND BAR SPACING SHALL NOT EXCEED 12 INCHES.

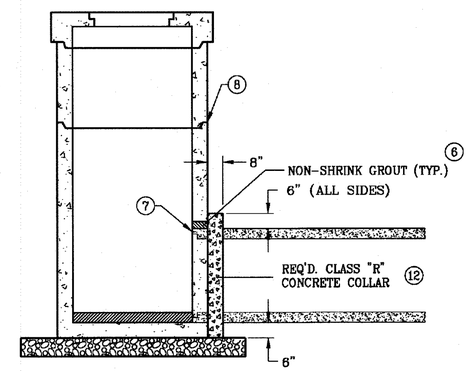
NOTE: WELDED WIRE FABRIC IS NOT APPROVED AS A SUBSTITUTE FOR STANDARD REINFORCEMENT BARS.

GENERAL NOTES

1) PRECAST UNITS SHALL BE CAST MONOLITHICALLY.
2) THESE PRECAST UNITS ARE TO BE USED AS THE LOWER PORTION OF A COMPOSITE STRUCTURE. THE CAST-IN-PLACE FINISHING DETAILS ARE SHOWN ON OTHER STANDARD PLANS.
3) CONCRETE SHALL BE CLASS "A" AND SHALL ATTAIN A MINIMUM COMPRESSION STRENGTH OF 4000 PSI BEFORE ACCEPTANCE & SHIPPING OF UNITS. REINFORCING STEEL TO BE GRADE 60.
4) PIPE OPENING TO BE FORMED FOR CIRCULAR OR ARCH PIPE.
5) PIPE OPENING TO BE O.D. OF PIPE + 4"±½".
6) PIPE TO BE GROUTED IN AFTER INSTALLATION OF CONCRETE COLLAR CAST.
7) ALL PIPES TO BE CUT FLUSH WITH INSIDE OF DRAINAGE INLET.
8) JOINTS BETWEEN PRECAST UNITS TO BE SEALED WITH FLEXIBLE PLASTIC GASKET MATERIAL AND WRAPPED WITH A 12" WIDTH OF GEOTEXTILE FABRIC (SEE LA-DOTD QPL).
9) JOINT BETWEEN CAST-IN-PLACE SECTION AND PRECAST UNIT TO BE TONGUE AND GROOVE AND SEALED WITH TYPE II GRADE A EPOXY (SEE LA-DOTD QPL) OR FLAT JOINT WITH A MINIMUM OF 12" OF NO. 4 BARS AT 12" CTRS. (MAX.) EXTENDED ABOVE THE JOINT.
10) CONTRACTOR TO SUBMIT SHOP DRAWINGS AND RECIEVE APPROVAL FROM PROJECT ENGINEER PRIOR TO UTILIZING A PRECAST CONCRETE STRUCTURE.
11) IN THE EVENT A PRECAST DRAINAGE STRUCTURE WILL NOT BE ABLE TO BE UTILIZED AT A SPECIFIC LOCATION DUE TO EITHER A UTILITY CONFLICT, FIELD CHANGE BROUGHT ABOUT BY AN UNFORESEEN CONDITION OR A CHANGE IN GRADE OF THE STORM DRAINAGE DUE TO AN UNFORESEEN CONDITION, AND THE PRECAST DRAINAGE STRUCTURE HAS BEEN FABRICATED PRIOR TO THE DISCOVERY OF EITHER THE CONFLICT OR FIELD CHANGE, MINOR MODIFICATIONS TO THE PRECAST STRUCTURE MAY BE ALLOWED TO ACCOMODATE THE CHANGE/CONFLICT UPON RECEIVING WRITTEN APPROVAL FROM THE ENGINEER, WITH NO ADDITIONAL COMPENSATION. SHOULD THE CONFLICT OR FIELD CHANGE REQUIRE MAJOR MODIFICATIONS AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL REPLACE THE PRECAST STRUCTURE WITH A CAST-IN-PLACE STRUCTURE AT NO ADDITIONAL COST.
NOTE: ONLY THE STRUCTURE UTILIZED WILL BE CONSIDERED A PAY ITEM.
12) CONCRETE COLLAR TO BE PROVIDED AT NO DIRECT PAY. THE COST OF THE CONCRETE COLLAR IS TO BE INCLUDED IN THE COST OF THE PRECAST DRAINAGE STRUCTURE.
13) 6" AGGREGATE BASE TO BE PROVIDED AT NO DIRECT PAY. THE COST OF THE AGGREGATE BASE IS TO BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE. AGGREGATE SHALL CONFORM TO THE REQUIREMENTS FOR BEDDING MATERIAL UNDER SECTION 726 OF THE LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS.
14) CONCRETE USED TO ADJUST FLOWLINE OF THE BASE UNIT IS TO BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE.
15) ALL PRECAST UNITS MUST BE FABRICATED BY A MFG. APPROVED AND LISTED ON THE LA-DOTD QUALIFIED PRODUCTS LIST.



TYPICAL COMPOSITE STRUCTURE
N.T.S.



SECTION A-A
TYPICAL COMPOSITE STRUCTURE
DETAILING PIPE CONNECTION
N.T.S.

STATE OF LOUISIANA
Travis P. Laurent
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IN CIVIL ENGINEERING
5-20-22

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DATE	DESCRIPTION REVISED	BY

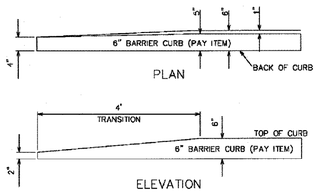
BANGKOK THAI RESTAURANT
LAFAYETTE, LA

PRECAST DRAINAGE BOX DETAIL

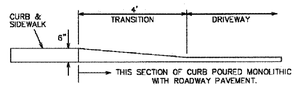
SHEET NO
C2.4

DATE OF PLANS:

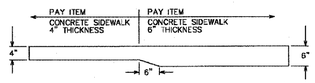
BPN: 4975 SPN: ___
FILE: D DWG: ___



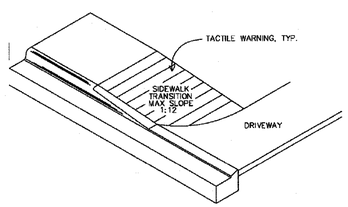
CURB TRANSITION
NOT TO SCALE



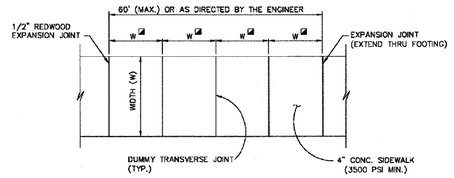
CURB TRANSITION @ DRIVEWAY
NOT TO SCALE



SIDEWALK DEPTH TRANSITION
NOT TO SCALE

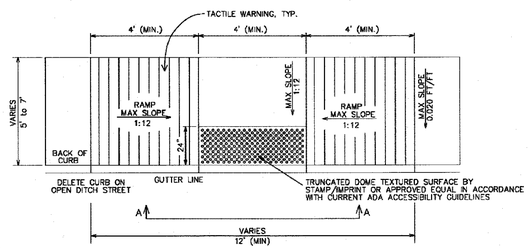


SIDEWALK TRANSITION @ DRIVEWAY
NOT TO SCALE

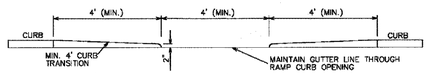


SIDEWALK DETAIL
NOT TO SCALE

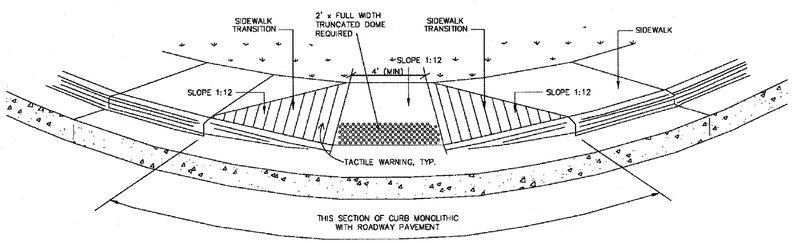
■ SPACING OF DUMMY TRANSVERSE JOINTS ON CONC. WALKS SHALL BE EQUAL TO THE WIDTH OF THE WALK BUT NOT GREATER THAN 10 FEET



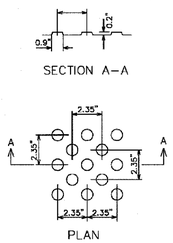
HANDICAP RAMP
NOT TO SCALE



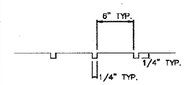
SECTION A–A



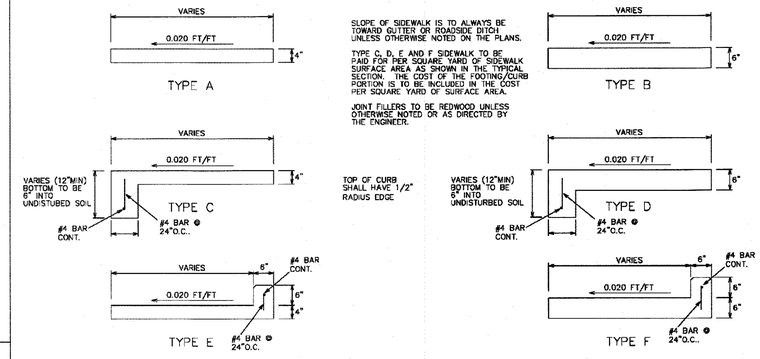
CORNER RAMP



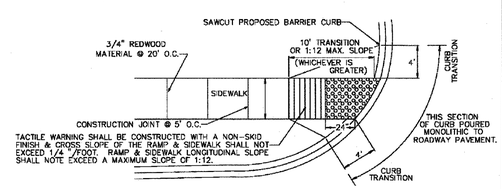
TRUNCATED DOME DETAIL
NOT TO SCALE



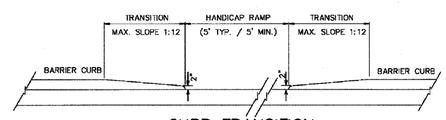
TACTILE WARNING DETAIL
NOT TO SCALE



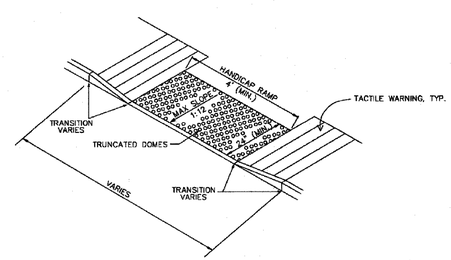
SIDEWALK DETAILS
NOT TO SCALE



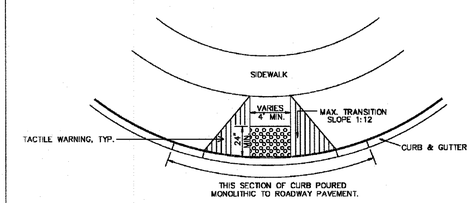
PLAN OF SIDEWALK TRANSITION
NOT TO SCALE



CURB TRANSITION
NOT TO SCALE



CURB TRANSITION FOR HANDICAP RAMP S/W ADJACENT TO BACK OF CURB
NOT TO SCALE



CURB TRANSITION FOR HANDICAP RAMP GREEN AREA BETWEEN S/W AND BACK OF CURB
NOT TO SCALE

RAMP NOTES:

1. PLACE RAMPS AT ALL LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY PROJECT ENGINEER.
2. THE SLOPE OF THE RAMP PROPER SHALL NOT EXCEED 1:12. 1" RISE IN A 12" SPAN.
3. CONCRETE FOR RAMPS SHALL BE CLASS "M2" MEETING THE REQUIREMENTS AS STATED IN SPECIFICATIONS UNDER SECTION 706 OF THE LAFAYETTE CONSOLIDATED GOVERNMENT STANDARD SPECIFICATIONS. LATEST EDITION.
4. THICKNESS OF CONCRETE WITHIN RAMP AREA TO BE 6".
5. PROVIDE TACTILE WARNING SURFACE ON RAMPS (NO DIRECT PAY).
6. GUTTER LINE TO BE MAINTAINED ALONG RAMP CURB OPENING AT CORNER RAMPS AND RAMP ADJACENT CURB.
7. LANDING AT STREET CROSSINGS SHALL PROVIDE AN AREA OF TACTILE WARNING CONSISTING OF TRUNCATED DOMES. AREA OF TRUNCATION SHALL BE 2' (TWO) FEET WIDE AND EXTEND A MIN. OF 4' (FOUR) FEET OR THE FULL WIDTH OF LANDING.
8. SIDEWALK TRANSITION SECTIONS SHALL HAVE A TACTILE WARNING TREATMENT. IN ADDITION TO THE BRUSHED FINISH. FOR A DISTANCE OF 5' FROM THE END OF THE SIDEWALK AT ALL LOCATIONS THAT DO NOT CONNECT TO EXISTING SIDEWALKS AT NO ADDITIONAL COST TO THE OWNER.

STATE OF LOUISIANA
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DATE	DESCRIPTION REVISED	BY

BANGKOK THAI RESTAURANT
LAFAYETTE, LA

SIDEWALK DETAILS

SHEET NO
C2.5

DATE OF PLANS:

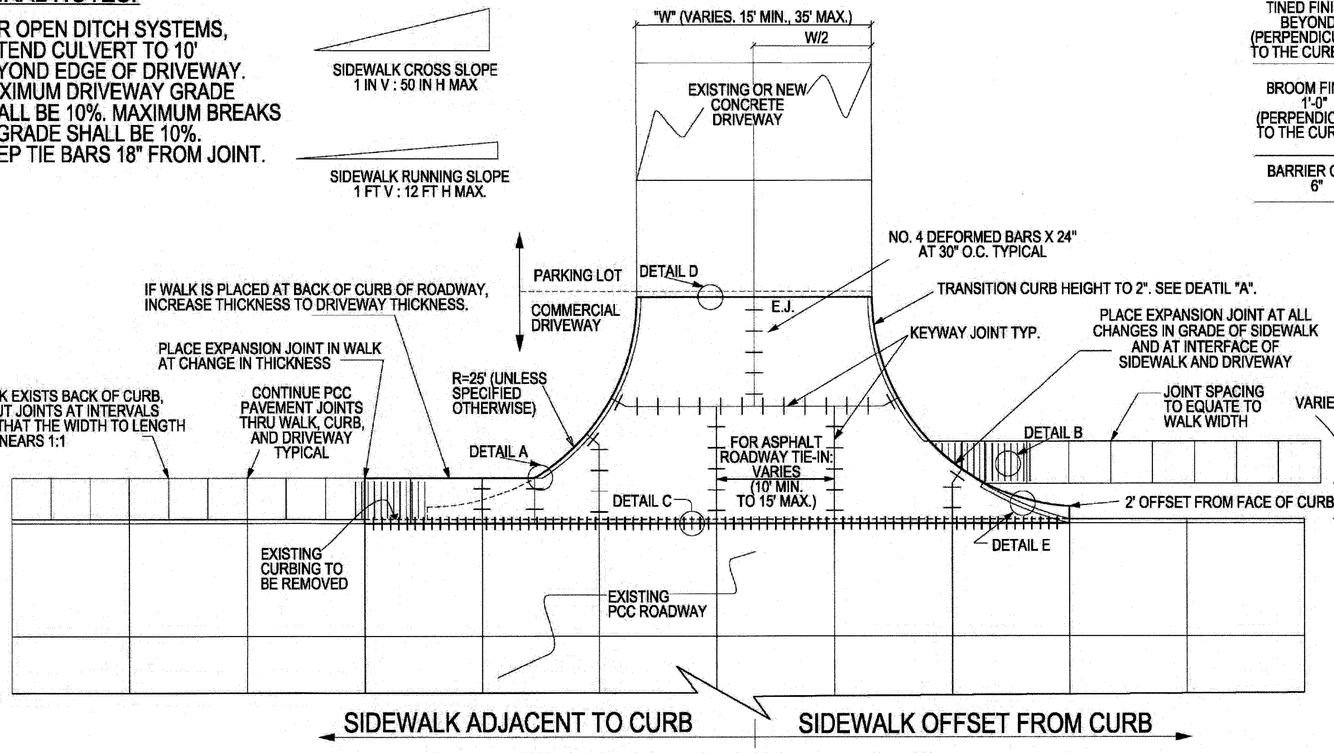
BPN: 4975 | SPN: ___
FILE: D | DWG: ___

GENERAL NOTES:

1.) FOR OPEN DITCH SYSTEMS, EXTEND CULVERT TO 10' BEYOND EDGE OF DRIVEWAY.
2.) MAXIMUM DRIVEWAY GRADE SHALL BE 10%. MAXIMUM BREAKS IN GRADE SHALL BE 10%.
3.) KEEP TIE BARS 18" FROM JOINT.

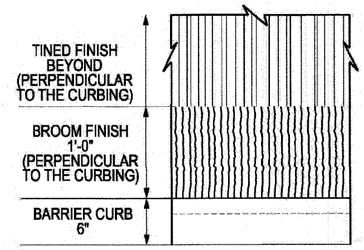
SIDEWALK CROSS SLOPE
1 IN V : 50 IN H MAX

SIDEWALK RUNNING SLOPE
1 FT V : 12 FT H MAX.

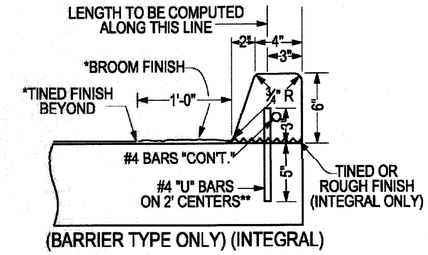


COMMERCIAL CONCRETE DRIVE DETAIL

N.T.S.



PLAN



(BARRIER TYPE ONLY) (INTEGRAL)

PROFILE

CONCRETE CURB

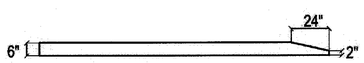
N.T.S.

*TINED FINISH AND BROOM FINISH PERPENDICULAR TO CURB.
**STEEL REINFORCEMENT NOT NECESSARY IF CONSTRUCTED MONOLITHICALLY WITH THE PAVEMENT.

SIDEWALK NOTES:

SIDEWALKS WILL BE A MINIMUM OF 5' WIDE AND MEET THE FOLLOWING STANDARDS:

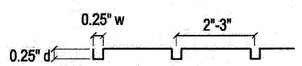
1. CONSTRUCTED OF A MIN. OF 2500 PSI PORTLAND CEMENT CONCRETE, A MIN. OF 4" THICK.
2. MINIMUM 3/4" THICK REDWOOD EXPANSION JOINT A MAX. OF EVERY 60' OR AS NEEDED.
3. SCORED CONTRACTION JOINTS (MAXIMUM OF WIDTH OF WALK).
4. SIDEWALKS ACROSS DRIVEWAYS OR THAT WILL BE CROSSED BY VEHICLES WILL BE 8" THICK MIN. AND MEET CURRENT ADA STANDARDS.
5. SOIL BENEATH SIDEWALK WILL EITHER BE NATURAL UNDISTURBED SOIL, OTHERWISE COMPACTED TO 90% STANDARD PROCTOR, MINIMUM.
6. SIDEWALKS WILL BE PROVIDED WITH A BROOMED SURFACE TEXTURE.
7. SIDEWALKS WILL BE CONTINUOUS AND EVEN (THEY MAY BE SLOPED FOR TERRAIN AND DRAINAGE) WITHOUT AN OBSTACLE OR BUMP THAT WILL IMPEDE, TRIP OR PRESENT A SAFETY HAZARD FOR PEDESTRIANS.
8. SIDEWALK WILL BE CONTINUOUS OVER THE FULL FRONTAGE OF THE DEVELOPMENT.
9. AT STREET CORNERS THE SIDEWALK IN BOTH DIRECTIONS WILL EXTEND TO THE PAVEMENT EDGE. IF A DITCH CULVERT IS REQUIRED TO ACCOMPLISH THIS IT WILL BE CONSIDERED PART OF THE SIDEWALK REQUIREMENT. THE SIZE AND GRADE OF CULVERTS WILL BE DETERMINED BY THE ENGINEER OF RECORD.
10. HANDICAP RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT ADA STANDARDS BY DEVELOPER. ALL SIDEWALK AREAS, INCLUDING THROUGH DRIVEWAY AREAS, MUST MEET ADA SPECS FOR CROSS SLOPE AND RUNNING SLOPE.



TYPICAL AT ALL BREAKS IN CURB.

DETAIL A - BARRIER CURB TRANSITION

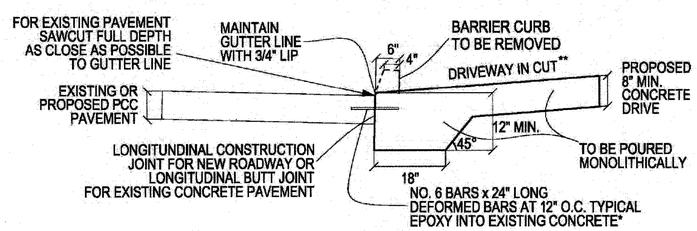
N.T.S.



TO BE CONSTRUCTED ON BOTH SIDES OF DRIVEWAY FOR LENGTH OF SLOPE OR A MIN OF 5 FT FROM EDGE OF DRIVEWAY.

DETAIL B - SIDEWALK GROOVES

N.T.S.



*FOR ASPHALT PAVEMENT WITH OPEN DITCH DRAINAGE SYSTEM, OMIT TIE BARS AND SAWCUT STRAIGHT EDGE ALONG EDGE OF ASPHALT.

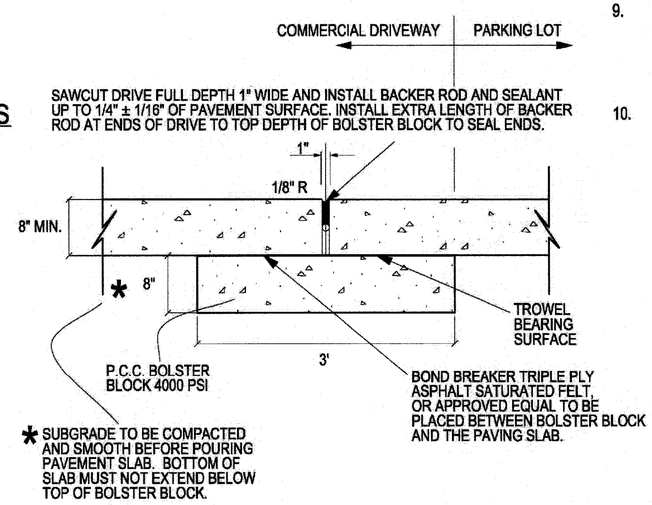
FOR ASPHALT PAVEMENT WITH CURB AND GUTTER, SAWCUT AS CLOSE AS POSSIBLE TO GUTTERLINE. EPOXY IN TIE BARS 6" MAX INTO EXISTING GUTTER AND RE-ESTABLISH GUTTERLINE BEFORE CONCRETE PLACEMENT.

EPOXY MUST CURE FOR MIN. OF 24 HOURS PRIOR TO CONCRETE PLACEMENT.

** MAINTAIN 3/4" MIN LIP FOR DRIVEWAY IN FILL.

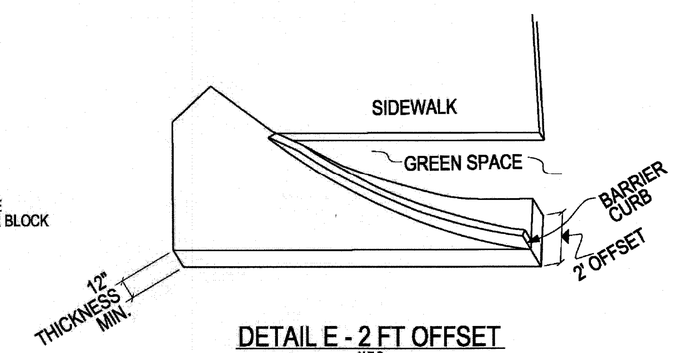
DETAIL C - PCCP TO DRIVE TIE IN

N.T.S.



DETAIL D - EXPANSION JOINT

N.T.S.



DETAIL E - 2 FT OFFSET

N.T.S.

STATE OF LOUISIANA
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DATE	DESCRIPTION REVISED	BY

BANGKOK THAI RESTAURANT
LAFAYETTE, LA

DRIVEWAY DETAIL

SHEET NO
C2.6

DATE OF PLANS:

BPN: 4975 SPN: ___
FILE: D DWG: ___