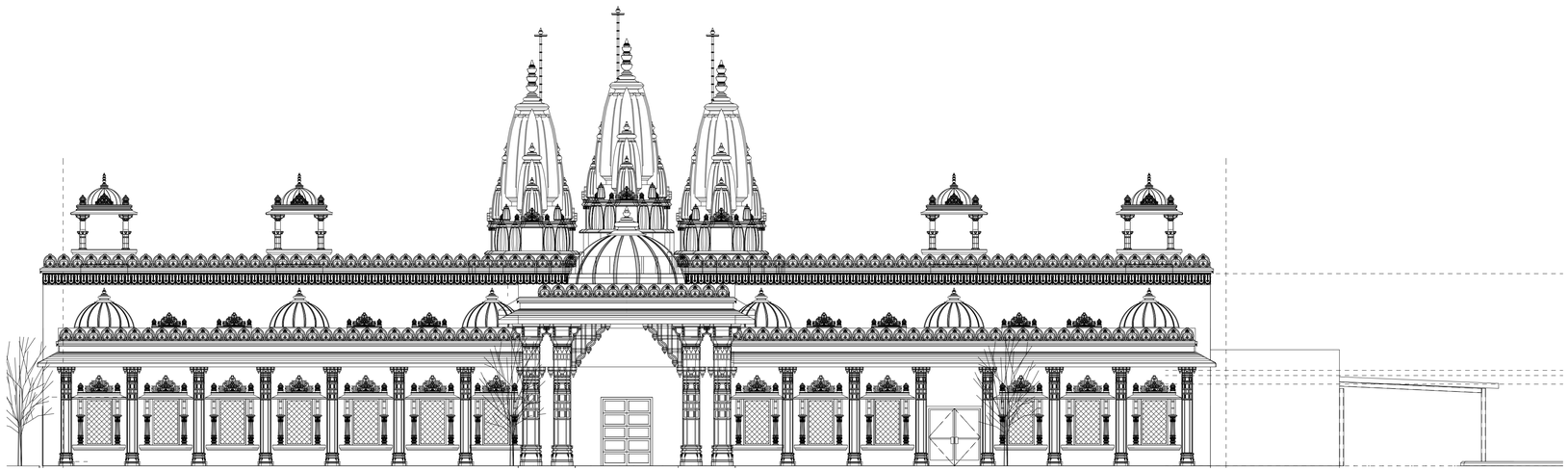
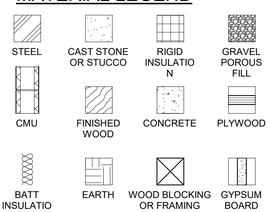


RENOVATION OF BAPS SWAMINARAYAN TEMPLE, JACKSON, MS

ABBREVIATIONS

ADJ	ADJACENT	MAX.	MAXIMUM
A.F.F.	ABOVE FINISH FLOOR	MECH.	PLUMBING
ALT.	ALTERNATE	MIN. or MN.	MINIMUM
ALUM	ALUMINUM	MISC.	MISCELLANEOUS
APPROX.	APPROXIMATE	MNT.	MOUNT OR MOUNTED
ARCH.	ARCHITECT	MTL	METAL
BD.	BOARD	N.I.C.	NOT IN CONTRACT
BLDG.	BUILDING	NO.	NUMBER
C.A.	CLEAR ANODIZED	NOM.	NOMINAL
CEM.	CEMENT	N.S.F.S.	NEAR SIDE AND FAR SIDE
CER.	CERAMIC	N.T.S.	NOT TO SCALE
C.G.	CORNER GUARD	O.C.	ON CENTER
C.J.	CONTROL JOINT	OD.	OUTSIDE DIAMETER
CLG.	CEILING	O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
C.M.U.	CONCRETE MASONRY UNIT	OPP.	OPPOSITE
COL.	COLUMN	O.R.D.	OVERFLOW ROOF DRAIN
CONC.	CONCRETE	P.L. or PLAM	PLASTIC LAMINATE
CONT.	CONTINUOUS	PLYWD.	PLYWOOD
CORR.	CORRIDOR	PNT	PAINT
C.T.	CERAMIC TILE	P.S.B.	PENCIL SHARPENER BOARD
DET.	DETAIL	P.T.	PRESSURE TREATED
DIA.	DIAMETER	Q.T.	QUARRY TILE
DN.	DOWN	RAD.	RADIUS
D.S.	DOWNSPOUT	R.D.L.	ROOF DRAIN LEADER
DWG	DRAWING	REINF	REINFORCEMENT
EA.	EACH	REQD.	REQUIRED
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	RES.	RESILIENT
E.J.	EXPANSION JOINT	RM.	ROOM
ELEC.	ELECTRICITY	R.D.	ROOF DRAIN
ELEV.	ELEVATOR	R.O.	ROUGH OPENING
E.O.S.	EDGE OF SLAB	S.C.	SOLID CORE
EQ.	EQUAL	SCWD.	SOLID CORE WOOD
EXIST.	EXISTING	S.F.	SQUARE FEET
EXP.	EXPANSION	SHT.	SHEET
EXT.	EXTERIOR	SIM.	SIMILAR
F.D.	FLOOR DRAIN	ST.	STAIN
F.E.	FIRE EXTINGUISHER	STD.	STANDARD
F.E.C.	FIRE EXTINGUISHER CABINET	STG.	STAGGER TOP AND BOTTOM
F.H.C.	FIRE HOSE CABINET	STL.	STEEL
FIN.	FINISH	STOR.	STORAGE
FL.	FLOOR	STRUCT.	STRUCTURE
F.O.B.	FACE OF BRICK	SUSP.	SUSPENDED
F.O.S.	FACE OF STUD	SYNTH.	SYNTHETIC
F.R.P.	FIBER REINFORCED PANEL	T.O.S.	TOP OF STEEL
F.R.T.	FIRE RETARDANT TREATED	TEL.	TELEPHONE
F.S.	FLOOR SINK	TEMP.	TEMPERED
GALV.	GALVANIZED	THK.	THICKNESS
GL.	GLASS	TYP.	TYPICAL
GWB.	GYPSUM WALL BOARD	U.O.N. or U.N.O	UNLESS OTHERWISE NOTED
GYP.	GYPSUM	UTIL	UTILITY
HGT.	HEIGHT	V.C.T.	VINYL COMPOSITION TILE
HORIZ.	HORIZONTAL	VERT.	VERTICAL
HR.	HOUR	V.W.C.	VINYL WALL COVERING
ID.	INSIDE DIAMETER	WC.	WATER CLOSET
INSUL.	INSULATION	WD.	WOOD
JST.	JOIST	W.P.	WATER PROOFING
JT.	JOINT	WT.	WEIGHT
LAM.	LAMINATE	W.W.F.	WELDED WIRE FABRIC
M.O.	MASONRY OPENING	W/	WITH
MACH.	MACHINE	W/O	WITHOUT
		XTG.	EXISTING

MATERIAL LEGEND

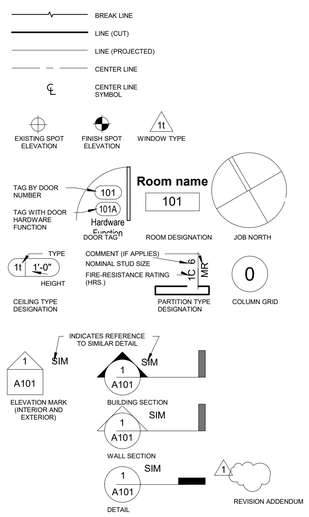


FLOOR	AREA (SQUARE FEET)
Existing First Floor:	15, 615
Existing Second Floor:	910
Addition First Floor:	5,163
Addition Second Floor:	2,600
ADDITION TOTAL.:	7,763
TOTAL EXISTING AND NEW:	24,288

DRAWINGS AS PER THE INTERNATIONAL BUILDING CODE 2012
2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL FUEL GAS CODE

TOTAL NUMBER OF FLOORS: TWO
BUILDING OCCUPANCY CLASSIFICATION: A3
TYPE OF CONSTRUCTION: II-B
FULLY SPRINKLERED BUILDING
MAXIMUM HEIGHT OF BUILDING: 45 FEET 5 INCHES

SYMBOL LEGEND



Title	
Sheet No.	Sheet Name
T000	Cover Sheet
T001	Code Requirements & Notes

Architectural	
Sheet No.	Sheet Name
A001	Siteplans-Existing & New
A101	First Floorplan Existing
A102	1st & 2nd Floorplan Demolition
A103	First Floorplan New
A104	Second Floor Plan New
A105	Roof Plan Existing
A106	Roof Plan New
A201	1st & 2nd Reflected Ceiling Plan New Construction
A301	Elevations
A302	Elevations
A303	Elevation Details
A304	Elevation Details
A305	Elevation Details
A401	Sections
A402	Sections
A403	Wall Types
A501	Front Area Layout
A502	Administration & Residential Layout
A503	Kitchen
A701	Room Schedule
A702	Door & Window Schedule
A801	Fire rating Plan

Civil	
Sheet No.	Sheet Name
C101	General Construction Notes
C200	Demolition Plan
C201	Site Plan
C301	Grading & Drainage Plan
C302	Utility Plan

Structural	
Sheet No.	Sheet Name
S001	Structural Notes
S002	Structural Special Inspections
S101	Foundation Plan
S201	Second Floor Framing
S202	Roof Framing Plan
S203	Canopy Foundation & Roof Framing Plan
S301	Foundation Sections
S401	Metal Stud Details
S501	Framing Sections

Mechanical	
Sheet No.	Sheet Name
M001	Mechanical Notes and Schedules
M002	Mechanical Details
M003	Kitchen Hood Details
M004	Outside Air Calculations
M101	Mechanical Floor Plan
M102	Mechanical 2nd Floor Plan
M201	Mechanical Roof Plan
MD100	Mechanical Demo Plan
MK100	Kitchen Hood and Equipment Plans
MK101	Kitchen Hood and Equipment Plans
MK102	Kitchen Hood and Equipment Plans
MK103	Kitchen Hood and Equipment Plans
MK104	Kitchen Hood and Equipment Plans
MK105	Kitchen Hood and Equipment Plans
MK106	Kitchen Hood and Equipment Plans
MK107	Kitchen Hood and Equipment Plans
MK108	Kitchen Hood and Equipment Plans
MK109	Kitchen Hood and Equipment Plans
MK110	Kitchen Hood and Equipment Plans
MK111	Kitchen Hood and Equipment Plans
MK112	Kitchen Hood and Equipment Plans

Plumbing	
Sheet No.	Sheet Name
P001	Plumbing Notes and Legend
P002	Plumbing Schedules
P003	Plumbing Details
P101	Plumbing 1st Floor Plan-Waste and Vent
P102	Plumbing 1st Floor Plan-Water Supply
P103	Plumbing 2nd Floor Plan
P201	Plumbing 2nd Floor Plan

Electrical	
Sheet No.	Sheet Name
E001	Electrical Specifications and Symbols
E002	Details and Schedules
E101	Floor Plan-Lighting
E102	Mezzanine Plans-Lighting
E201	Floor Plan-Power
E202	Mezzanine Plans-Power
E301	HVAC and Plumbing Connections
E401	Panel Schedules

Food Service	
Sheet No.	Sheet Name
FS-1	Food Service Equipment Plan
FS-2	Food Service Electrical Plan
FS-3	Food Service Plumbing Plan

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2015 MISHRA ARCHITECTURE PLLC

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Cover Sheet

Phase
Construction Documents

Project No. 12-072
Prepared by Author
Checked by Checker
Date Apr. 03, 2017

Sheet No.
T000

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Owner Use ONLY

Renovation of the Swami Narayan Temple

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GENERAL NOTES

1. THESE DRAWINGS ARE SOLELY INDICATIVE OF THE PROPOSED CHANGES BY OWNER TO EXISTING FACILITY. ALL THE INFORMATION PRESENTED IN THESE DRAWINGS NEEDS TO BE VERIFIED. THE ARCHITECT TAKES NO RESPONSIBILITY FOR THE ACCURACY OF INFORMATION PROVIDED ON THESE DRAWINGS.

2. CONSTRUCTION TECHNIQUES, PROCEDURES, SEQUENCING AND SCHEDULING ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.

3. IT IS THE INTENT OF THE CONTRACT DOCUMENTS TO COMPLY WITH ALL CODES AND ORDINANCES IN EFFECT AT THE TIME THE PERMIT IS ISSUED. NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF SUSPECTED DEVIATION.

4. DO NOT SCALE DRAWINGS; USE DIMENSIONS ONLY. NOTIFY ARCHITECT OF SIGNIFICANT DISCREPANCIES IMMEDIATELY UPON DISCOVERY.

5. IT IS THE INTENT OF THE DOCUMENTS TO PROVIDE A COMPLETELY WATERPROOF BUILDING ENVELOPE. REPORT TO ARCHITECT ANY CONDITION THAT WOULD PREVENT THIS IMMEDIATELY.

6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE THE EXISTING FACILITY. BEFORE ANY DEMOLITION AND CONSTRUCTION WORK IS UNDERTAKEN, THE CONTRACTOR NEEDS TO INFORM AUTHORITIES HAVING JURISDICTION OVER THE PROJECT.

7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR NOT TO DEMOLISH ANY PART OF THE EXISTING STRUCTURE THAT WILL COMPROMISE THE STRUCTURAL INTEGRITY OF THE BUILDING AT THE TIME OF DEMOLISH OR IN THE FUTURE.

8. THE CONTRACTOR NEEDS TO PROMPTLY REPAIR AND RESTORE TO FULL ORIGINAL CONDITION ANY DAMAGE TO ADJACENT STRUCTURES IN THE COURSE OF DEMOLITION OR CONSTRUCTION OF THIS PROJECT.

9. CONTRACTOR NEEDS TO MEET CODE REQUIREMENTS OF THE AMERICAN FOR DISABILITIES ACT (ADA) FOR HANDICAP USERS.

10. ANY PLUMBING, SEWER AND SANITARY PIPES THAT ARE RELOCATED OR DEMOLISHED MUST BE DONE ACCORDING TO LOCAL CODES. DISPOSAL OF ITEMS DURING THE COURSE OF THIS PROJECT IS THE FULL RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR TO DEMOLITION AND LEGALLY DISPOSE OFF-SITE.

11. CONTRACTOR TO PROVIDE ACOUSTICAL CEILING TILE AND GRID IN AREAS WHERE WALL HAVE BEEN REMOVED. NEW ACOUSTICAL TILE TO MATCH TYPE AND COLOR OF EXISTING TILE.

12. CONTRACTOR TO REPAIR AND FINISH WALL SURFACES TO MATCH ADJACENT WALL IN AREAS WHERE WALLS AND DOORS HAVE BEEN REMOVED.

13. CONTRACTOR WILL CAP UNUSED PIPES, DRAIN PIPES AND SEWER PIPES AFTER DEMOLITION OF PLUMBING FIXTURES. CONTRACTOR WILL FINISH FLOOR, WALL SURFACE AND WALL BASE TO MATCH EXISTING FLOOR AND WALL IN MATERIAL, TEXTURE AND COLOR.

DEMOLITION NOTES:

DENOTES DOOR TO BE DEMOLISHED

DENOTES VANITY TO BE DEMOLISHED

DENOTES WALL TO BE DEMOLISHED

DENOTES VENDING MACHINE TO BE REMOVED

1. CONTRACTOR NEEDS TO RESPECT THE ADJACENT PROPERTY OWNERS USAGE OF THEIR FACILITIES DURING THE DEMOLITION AND CONSTRUCTION OF THE PROJECT.

2. UNLESS OTHERWISE INDICATED, DEMOLITION WASTE BECOMES PROPERTY OF CONTRACTOR.

3. CONTRACTOR TO CONDUCT BUILDING DEMOLITION SO OPERATIONS OF OCCUPIED BUILDINGS WILL NOT BE DISRUPTED.

4. CONTRACTOR WILL NOT CLOSE OR OBSTRUCT WALKWAYS, EXITS, OR OTHER FACILITIES USED BY OCCUPANTS OF ADJACENT BUILDINGS WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION.

5. ON-SITE STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS IS NOT PERMITTED.

6. CONTRACTOR TO VERIFY THAT UTILITIES HAVE BEEN DISCONNECTED AND CAPPED BEFORE STARTING DEMOLITION OPERATIONS.

7. CONTRACTOR TO PROVIDE TEMPORARY INTERIOR AND EXTERIOR SHORING, BRACING OR STRUCTURAL SUPPORT TO PERSERVE STABILITY AND PREVENT UNEXPECTED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED.

8. CONTRACTOR WILL NOT INTERRUPT EXISTING UTILITIES SERVING ADJACENT OCCUPIED OR OPERATING FACILITIES. CONTRACTOR WILL NOT DAMAGE ANY CHASE OR CHANGE THE FIRE RATING OF WALLS, CEILING OR FLOOR DURING THE COURSE OF THE PROJECT.

9. CONTRACTOR WILL NOT RUPTURE ANY REFRIGERANT LINES. CONTRACTOR TO REMOVE REFRIGERANT FROM MECHANICAL EQUIPMENT ACCORDING TO 40 CFR 82 AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION IN CASE THERE IS ANY DEMOLITION NEAR REFRIGERANT LINES.

10. CONTRACTOR WILL NOT DAMAGE ANY AREAS WHERE THERE IS NO DEMOLITION WORK. CARE MUST BE TAKEN NOT TO SCRATCH, SCRAPE OR BREAK EXISTING DOORS, STOREFRONTS, WALLS, FLOOR, CARPET, CEILING TILES OR ANY EQUIPMENT WHICH MAY CAUSE UNDUE EXPENSE TO THE OWNERS.

CONSTRUCTION NOTES

1. CONTRACTOR OR ELECTRICAL SUB-CONTRACTOR TO CONNECT ALL NEW EQUIPMENT WITH THE ELECTRICAL PANEL.

2. CONTRACTOR OR ELECTRICAL SUB-CONTRACTOR WILL RUN ALL CONDUITS AND WIRING TO NEW APPLIANCES INSTALLED. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ELECTRICAL SUB-CONTRACTOR TO MEET ALL ELECTRICAL CODES, MAKE APPROPRIATE LOAD CALCULATIONS FOR THE NEW APPLICANCES INSTALLED.

3. IN CASE OF ANY NEED OF ASSISTANCE IN LOAD CALCULATIONS OR ELECTRICAL DRAWINGS, THE GENERAL CONTRACTOR WILL INFORM THE ARCHITECT AND CONTACT A MISSISSIPPI REGISTERED ELECTRICAL ENGINEER TO PROVIDE PROFESSIONAL ASSISTANCE AT NO ADDITIONAL COST TO THE ARCHITECT.

4. CONTRACTOR TO PROVIDE NEW FLOOR DRAINS AS SHOWN ON THE FLOORPLANS.

5. CONTRACTOR TO PROVIDE NEW EXHAUST, NEW SUPPLY, NEW RETURN AIR TO THE RENOVATED AREAS AS SHOWN ON THE DRAWINGS.

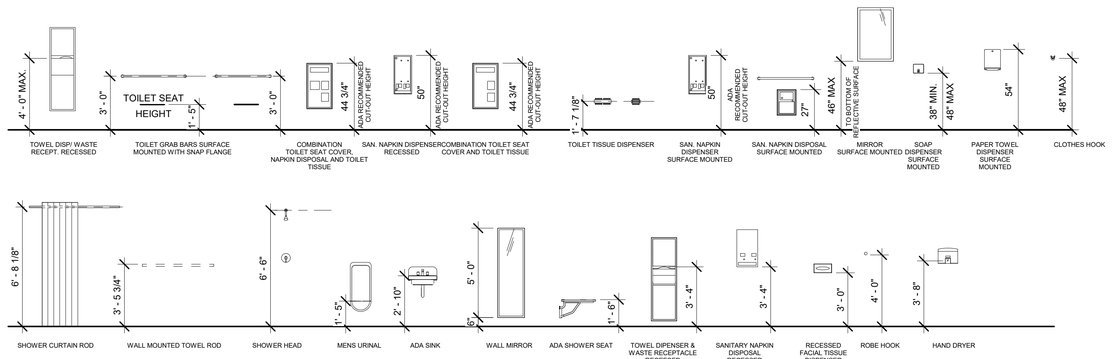
6. CONTRACTOR TO PROVIDE NEW LIGHTING, OUTLETS AND OTHER ELECTRICAL AS SHOWN ON THE DRAWINGS.

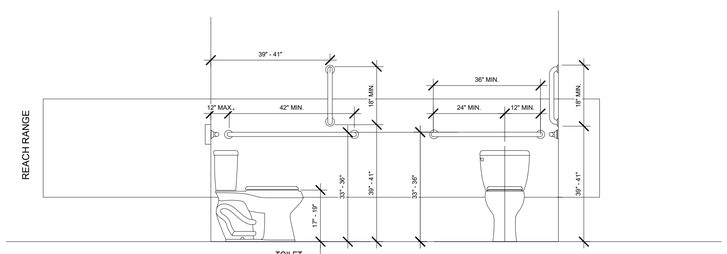
NEW ADDITION OCCUPANT LOAD CALCULATIONS

Level	Space	Area Sq. Ft.	Occupancy Classification	Area/Occupant Load	Occupant Load
1ST	ASSEMBLY	2,245	A-3	50	45
1ST	DINING	420	A-2	15	28
1ST	STORAGE/MECH.	857	S-2	300	3
1ST	OFFICE	430	B	100	4
1ST	KITCHEN	531	F-1	100	5
1ST	RESIDENTIAL	680	R-3	200	3
			TOTAL FIRST FLOOR ADDITIONAL OCCUPANT LOAD:		89
2ND	STORAGE	2,600	S-2	300	9
			TOTAL SECOND FLOOR ADDITIONAL OCCUPANT LOAD:		9
			TOTAL FIRST & SECOND FLOOR ADDITIONAL OCCUPANT LOAD:		98

FIRST FLOOR ADDITIONAL OCCUPANT LOAD: 89
SECOND FLOOR ADDITIONAL OCCUPANT LOAD: 9

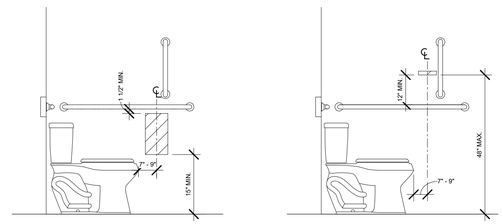
TOTAL ADDITIONAL OCCUPANT LOAD ALL FLOORS: 98





ALL EQUIPMENT CONTROLS SHOULD BE WITHIN REACH RANGE

1 ADA Grab Bars
1/2" = 1'-0"



ADA DISPENSERS

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

CODE INFORMATION:

CODE: INTERNATIONAL BUILDING CODE (2012 EDITION)

OCCUPANCY CLASSIFICATIONS:
- PRIMARY USE: A-3 ASSEMBLY (PLACES OF RELIGIOUS WORSHIP)
- SECONDARY USE: R-3 RESIDENTIAL, B BUSINESS, S-2 STORAGE, F-1 KITCHEN

TYPE OF CONSTRUCTION:
- TYPE II-B
- PROVIDE FOR SUPERVISED AUTOMATIC SPRINKLER SYSTEM

AREA ALLOWED AS PER IBC TABLE 503:
-9,500 SQUARE FEET
INCREASE IN AREA ALLOWED AS PER IBC 506.3 "AUTOMATIC SPRINKLER SYSTEM INCREASE:
-9,500 X 2 = 19,000 SQUARE FEET
TOTAL AREA ALLOWED: 9,500+19,000 = 28,500 SQUARE FEET

TOTAL NUMBER OF STORIES ALLOWED: 2
TOTAL HEIGHT ALLOWED: 55 FEET
INCREASE IN STORIES AND HEIGHT AS PER IBC 504.2 AUTOMATIC SPRINKLER SYSTEM INCREASE:
MAXIMUM NUMBER OF STORIES INCREASED BY ONE
MAXIMUM BUILDING HEIGHT INCREASED BY 20 FEET
ALLOWABLE NUMBER OF STORIES: 2 + 1 = 3
ALLOWABLE BUILDING HEIGHT: 55 + 20 = 75 FEET

EGRESS COMPONENTS:
- STAIRS AT 0.2" PER LOAD OR MIN. OF 44"
- OTHER AT 0.15 PER LOAD OR MIN. OF 32"

MEANS OF EGRESS:
- NUMBER OF EXITS: 2 MIN PER FLOOR
- TRAVEL DISTANCE: 250'-0" MAX.
- DEAD END CORRIDOR: 50'-0"
- CORRIDOR WIDTH: 44" MIN.
- COMMON PATH OF TRAVEL: 75'-0"

FIRE PROTECTION FEATURES:

STRUCTURAL ELEMENT	FIRE RATING REQD.	FIRE RATING PROVIDED
- STRUCTURAL FRAMING	NOT REQUIRED	NOT PROVIDED
- BEARING WALLS EXTERIOR	NOT REQUIRED	NOT PROVIDED
- BEARING WALLS INTERIOR	NOT REQUIRED	NOT PROVIDED
- FLOOR CONSTRUCTION	NOT REQUIRED	NOT PROVIDED
- ROOF CONSTRUCTION	NOT REQUIRED	NOT PROVIDED

FIRE PARTITION	FIRE RATING REQD.	FIRE RATING PROVIDED
- CORRIDOR & MEANS OF EGRESS	1 HOUR	1 HOUR

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REVISIONS		
No.	Date	Description

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REGISTERED ARCHITECT ASHISH MISHRA 3538 STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Code Requirements & Notes

Phase
Construction Documents

Project No. 12-072
Prepared by Author
Checked by Checker
Date Apr. 03, 2017

Sheet No.
T001

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Renovation of the Swami Narayan Temple

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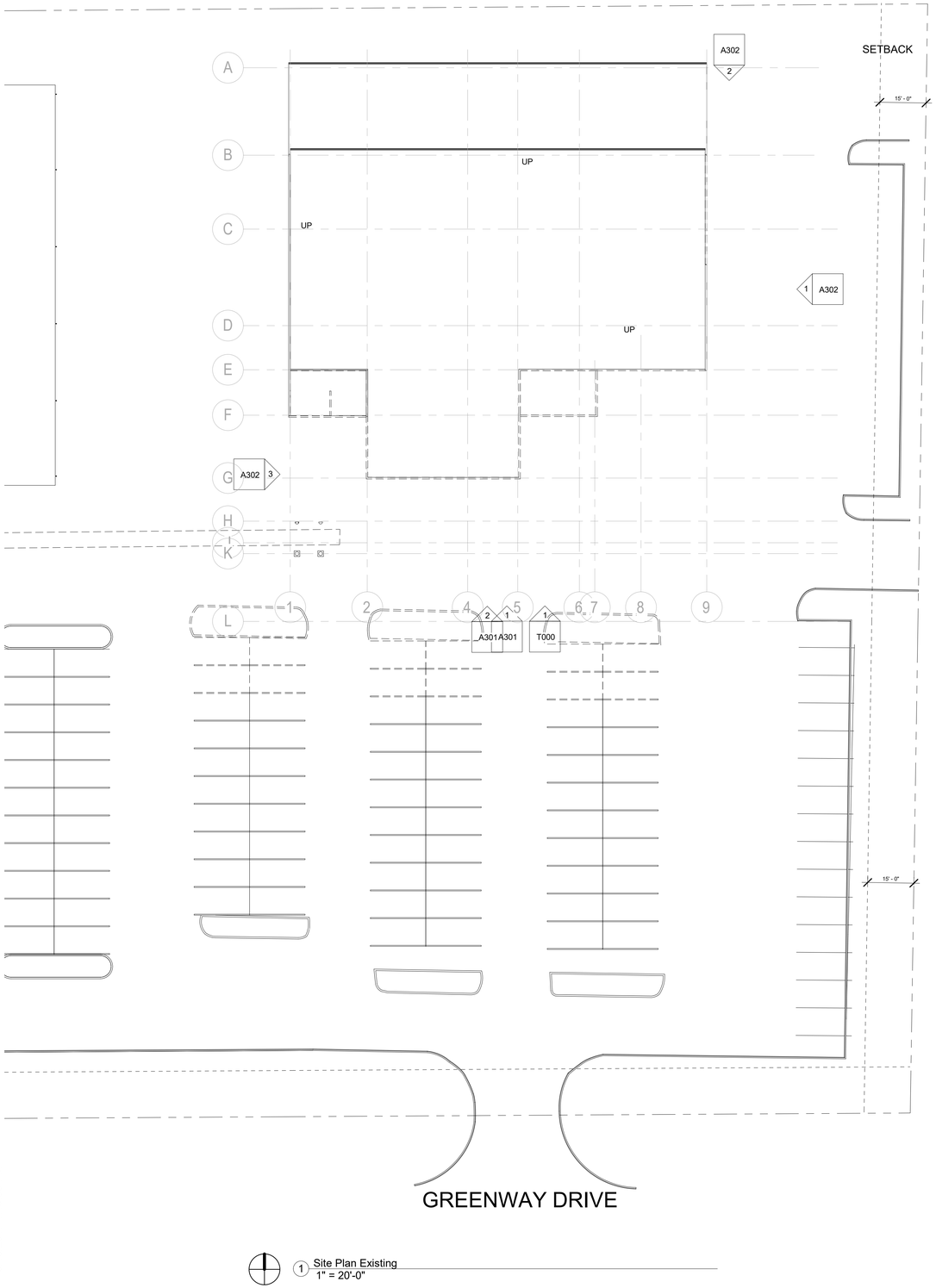
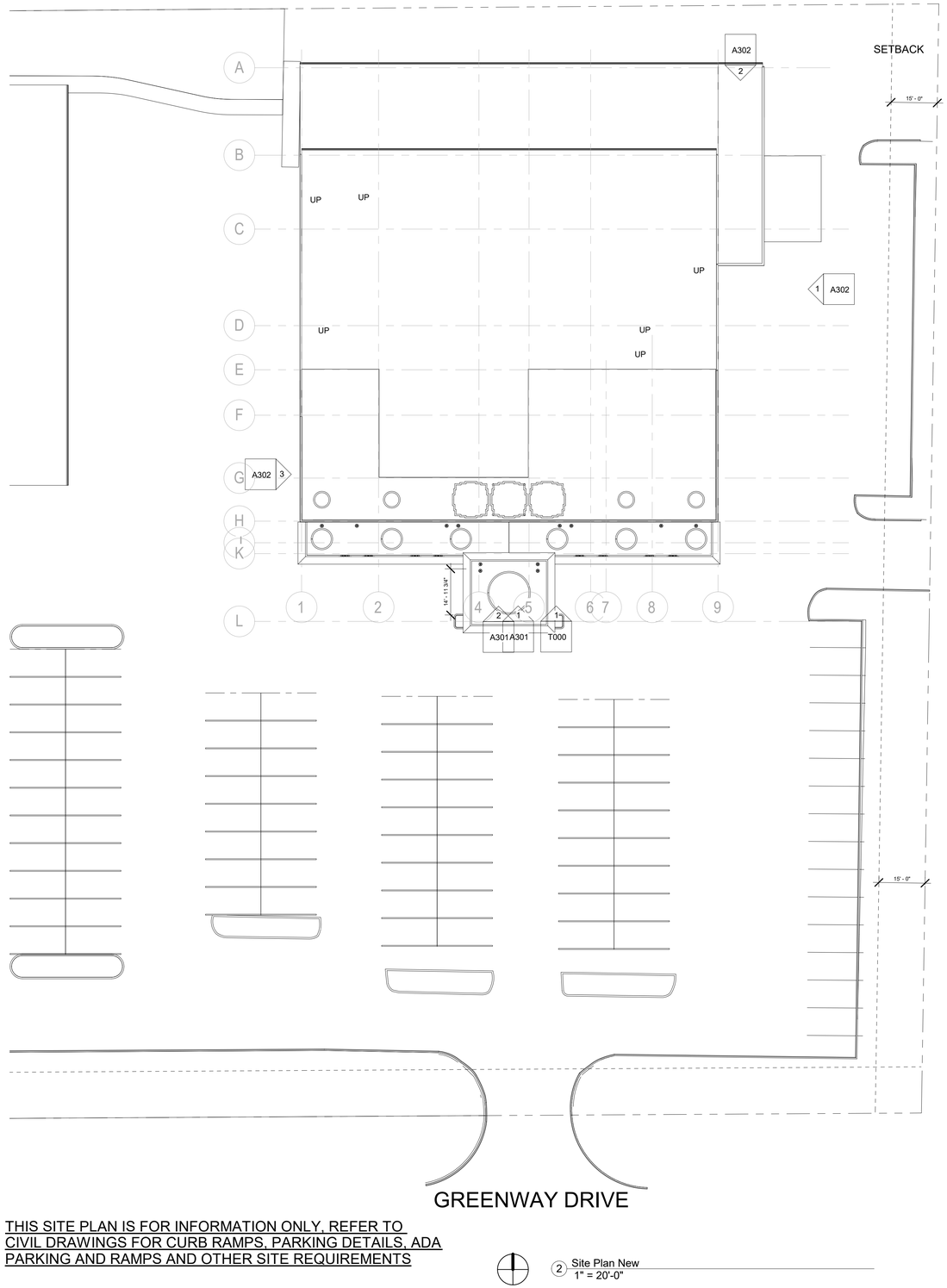


1 Site Plan Existing
1" = 20'-0"



2 Site Plan New
1" = 20'-0"

THIS SITE PLAN IS FOR INFORMATION ONLY, REFER TO CIVIL DRAWINGS FOR CURB RAMPS, PARKING DETAILS, ADA PARKING AND RAMPS AND OTHER SITE REQUIREMENTS

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STATE OF MISSISSIPPI

KEY PLAN

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Siteplans-Existing & New

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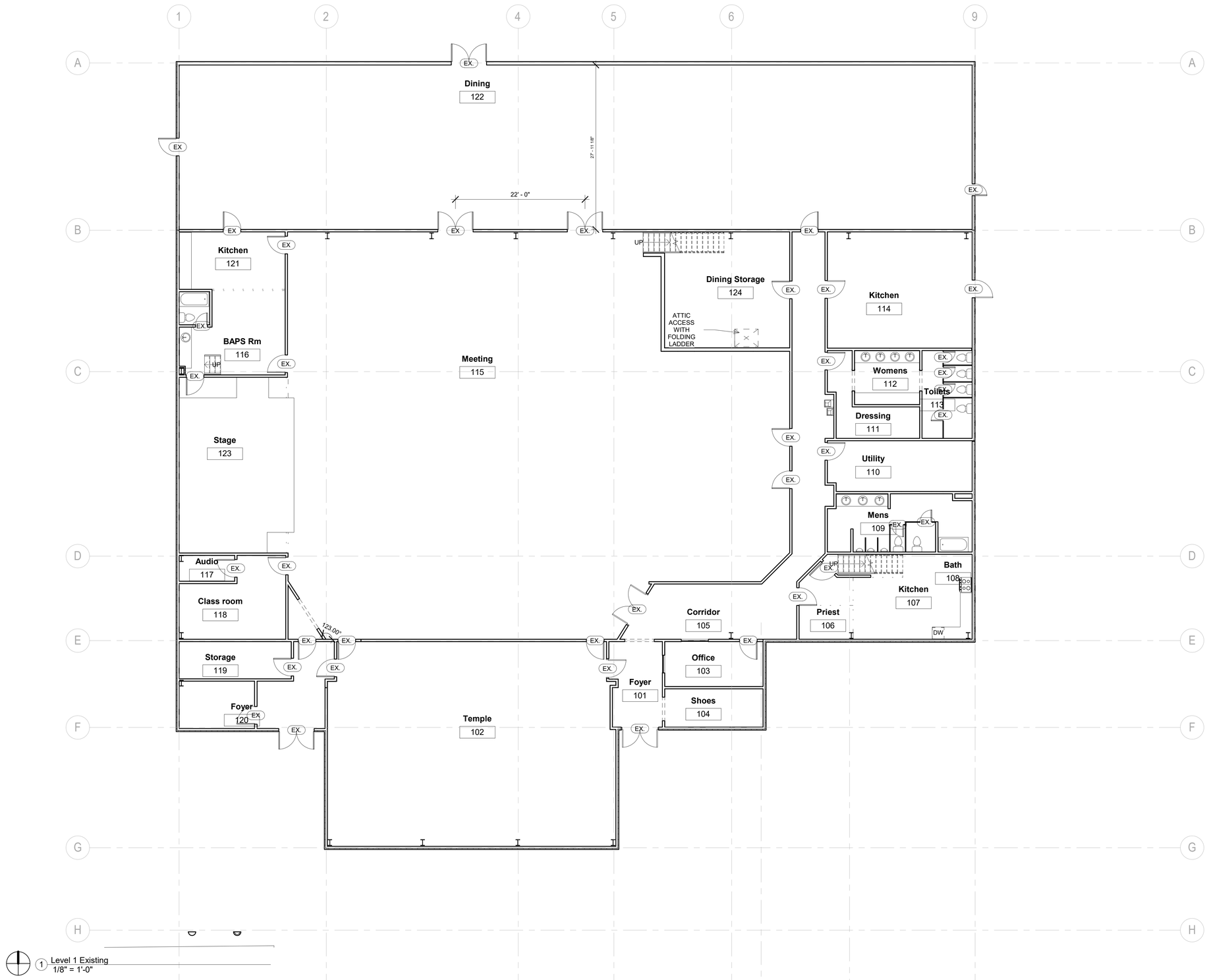

1 Level 1 Existing
1/8" = 1'-0"

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REVISIONS		
No.	Date	Description

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2015 MISHRA ARCHITECTURE PLLC

REGISTERED ARCHITECT ASHISH MISHRA 23436 STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
First Floorplan Existing

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
A101

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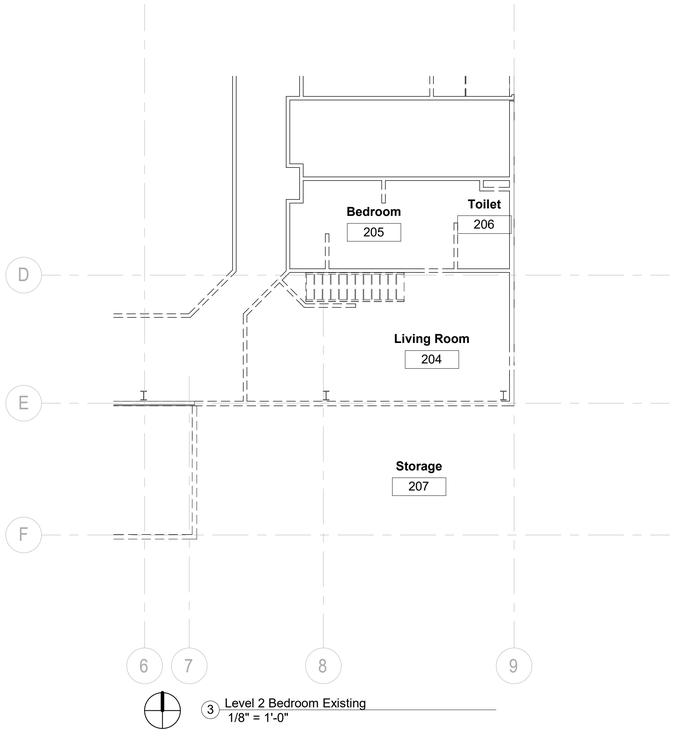
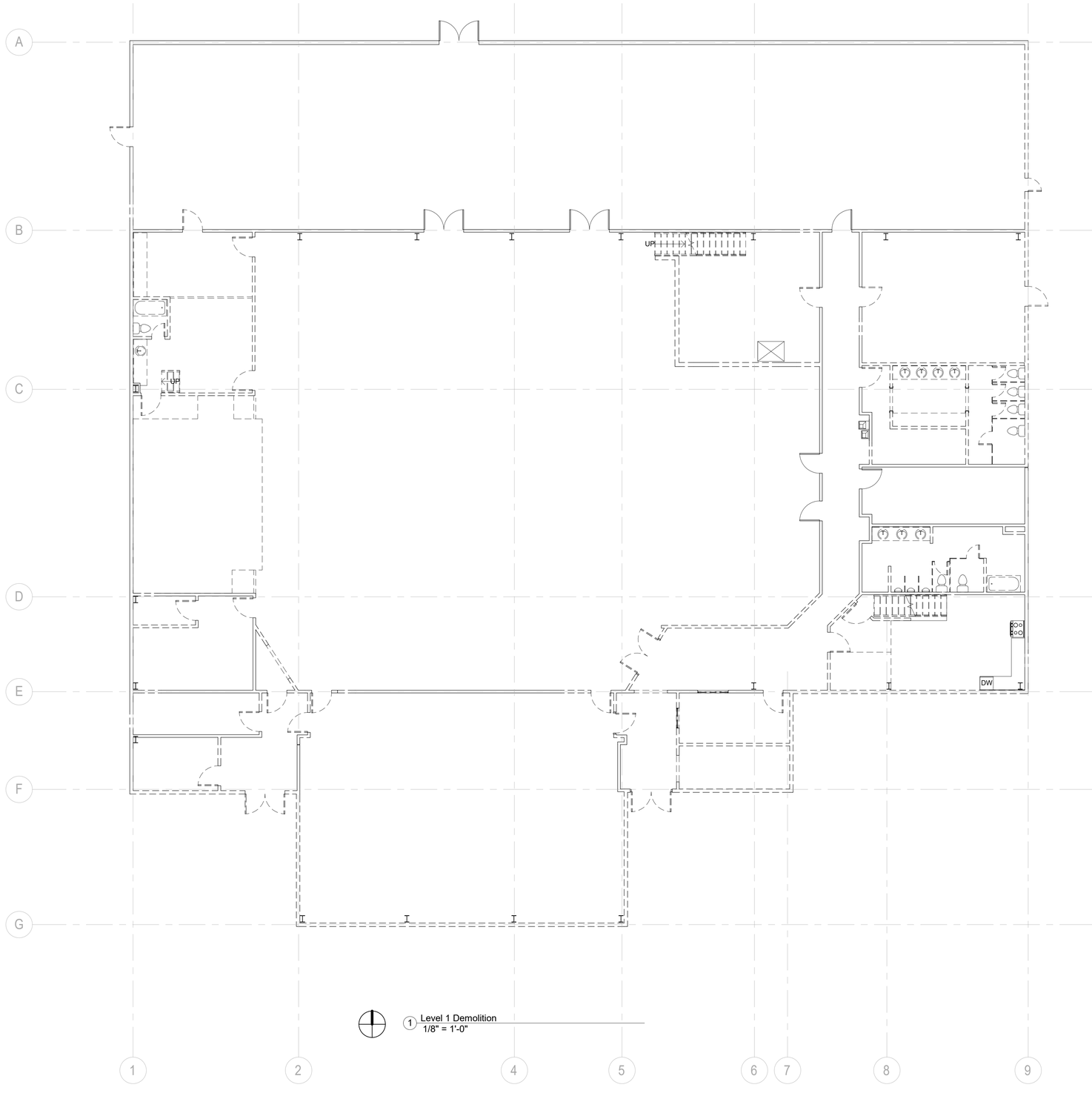
Renovation of the Swami Narayan Temple



3 Level 2 Bedroom Existing
1/8" = 1'-0"



1 Level 1 Demolition
1/8" = 1'-0"

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2015 MISHRA ARCHITECTURE PLLC

REGISTERED ARCHITECT
ASHISH MISHRA
3536
9/19/2017
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
1st & 2nd Floorplan Demolition

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

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A102

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Renovation of the Swami Narayan Temple

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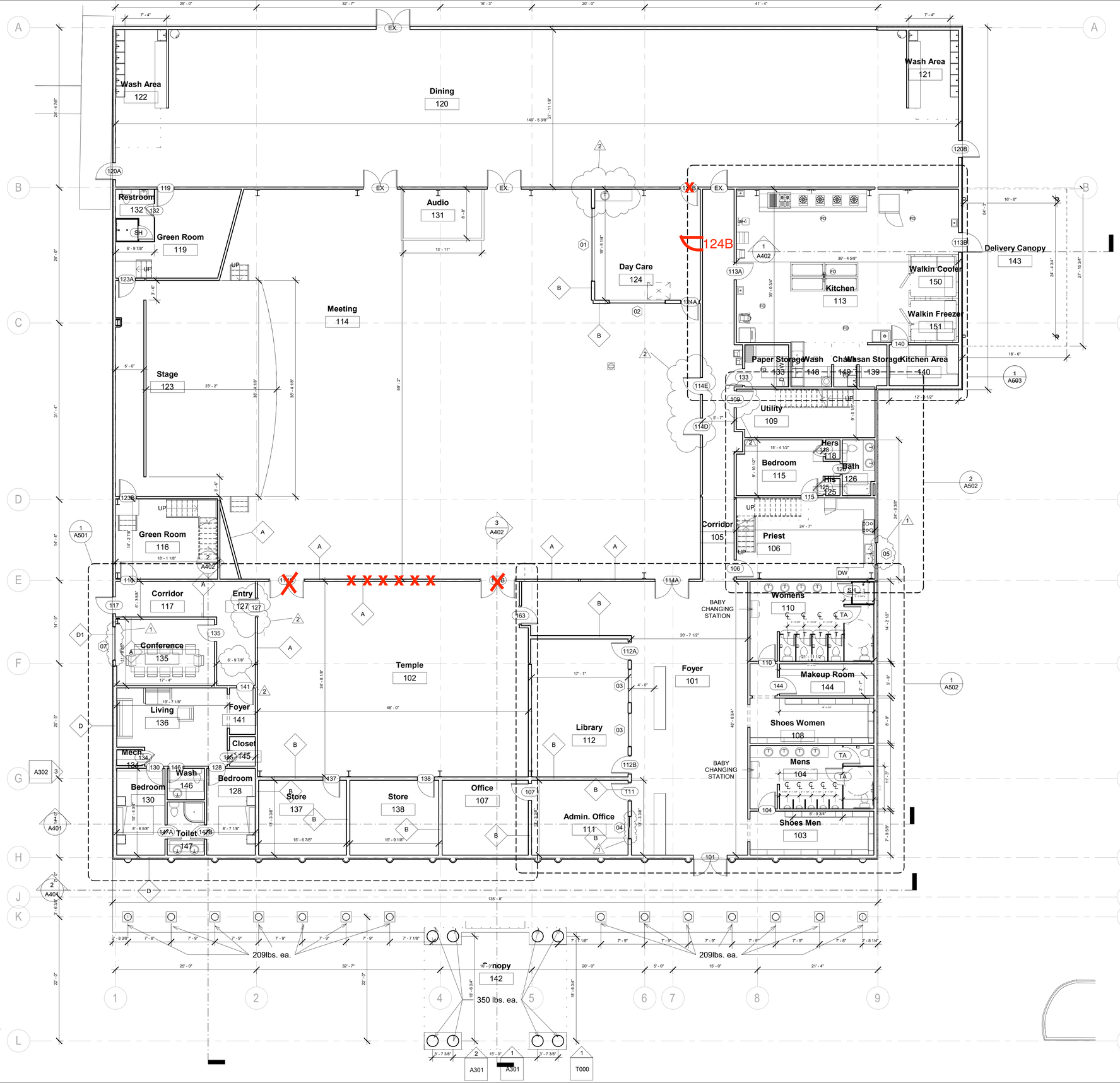

DEAD LOADS CALCULATED:

MAIN ROOF:
1. THREE DOMES: 6,600 X 3 = 19,800 LBS.
2. FOUR SMALL DOMES: 480 X 4 = 1,920 LBS.
3. PARAPET DECORATION: 135 FT. X 12 = 1,620 LBS.

PORCH ROOF:
1. SIX DOMES: 600 x 6 = 3,600 LBS.
2. PARAPET DECORATION: 135 X 12 = 1,620 LBS.

PORCH:
1. FOURTEEN COLUMNS: 209 X 14 = 2,926 LBS.
2. FOURTEEN FAKE WINDOWS: 187 X 14 = 2,618 LBS.

ENTRANCE CANOPY ROOF:
1. MAIN DOME: 1,230 LBS.
2. PARAPTET DECORATION: 92 X 14 = 1,288 LBS.

ENTRANCE CANOPY:
1. EIGHT COLUMNS: 350 X 8 = 2,800 LBS.
2. FOUR COLUMN DECORATION: 99 X 4 = 396 LBS.

1 Level 1 New
1/8" = 1'-0"

3/19/2018 11:10:21 AM

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REVISIONS		
No.	Date	Description
1	9/19/17	Owner request windows
2	3/19/18	Owner request

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REGISTERED ARCHITECT ASHISH MISHRA 23566 STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
First Floorplan New

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
A103

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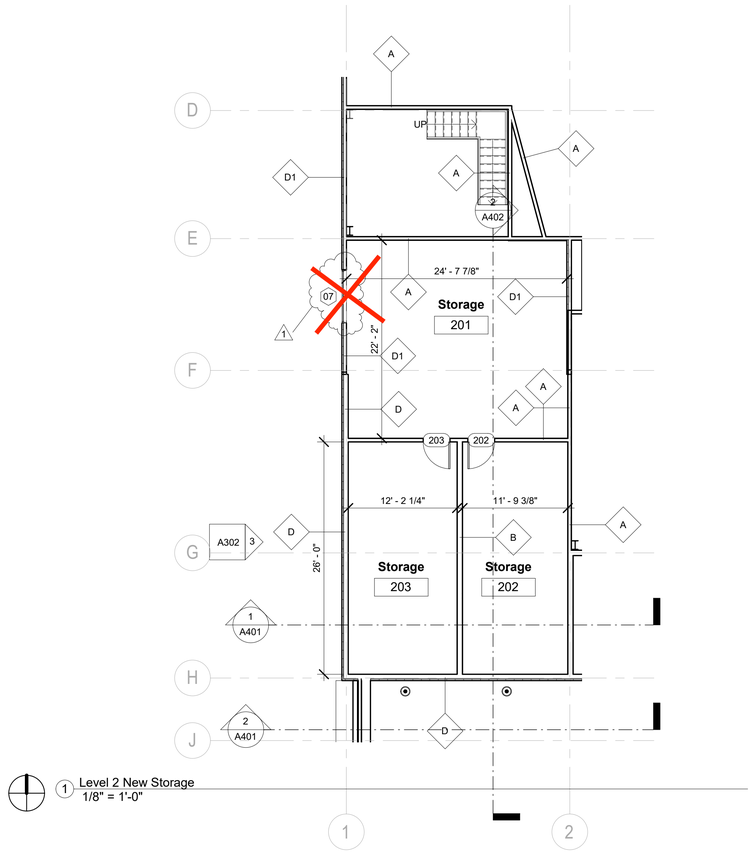
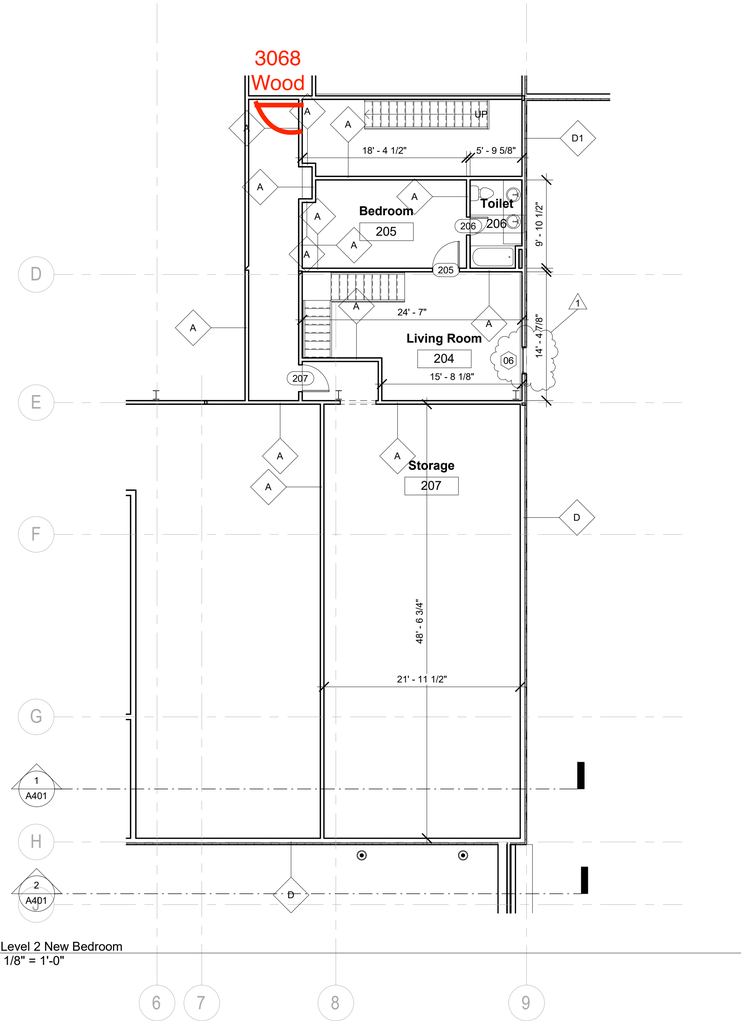
Renovation of the Swami Narayan Temple



1 Level 2 New Storage
1/8" = 1'-0"



2 Level 2 New Bedroom
1/8" = 1'-0"

9/19/2017 1:41:05 PM

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REVISIONS		
No.	Date	Description
1	9/19/17	Owner request windows

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REGISTERED ARCHITECT
ASHISH K MISHRA
STATE OF MISSISSIPPI
9/19/17

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Second Floor Plan New

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
A104

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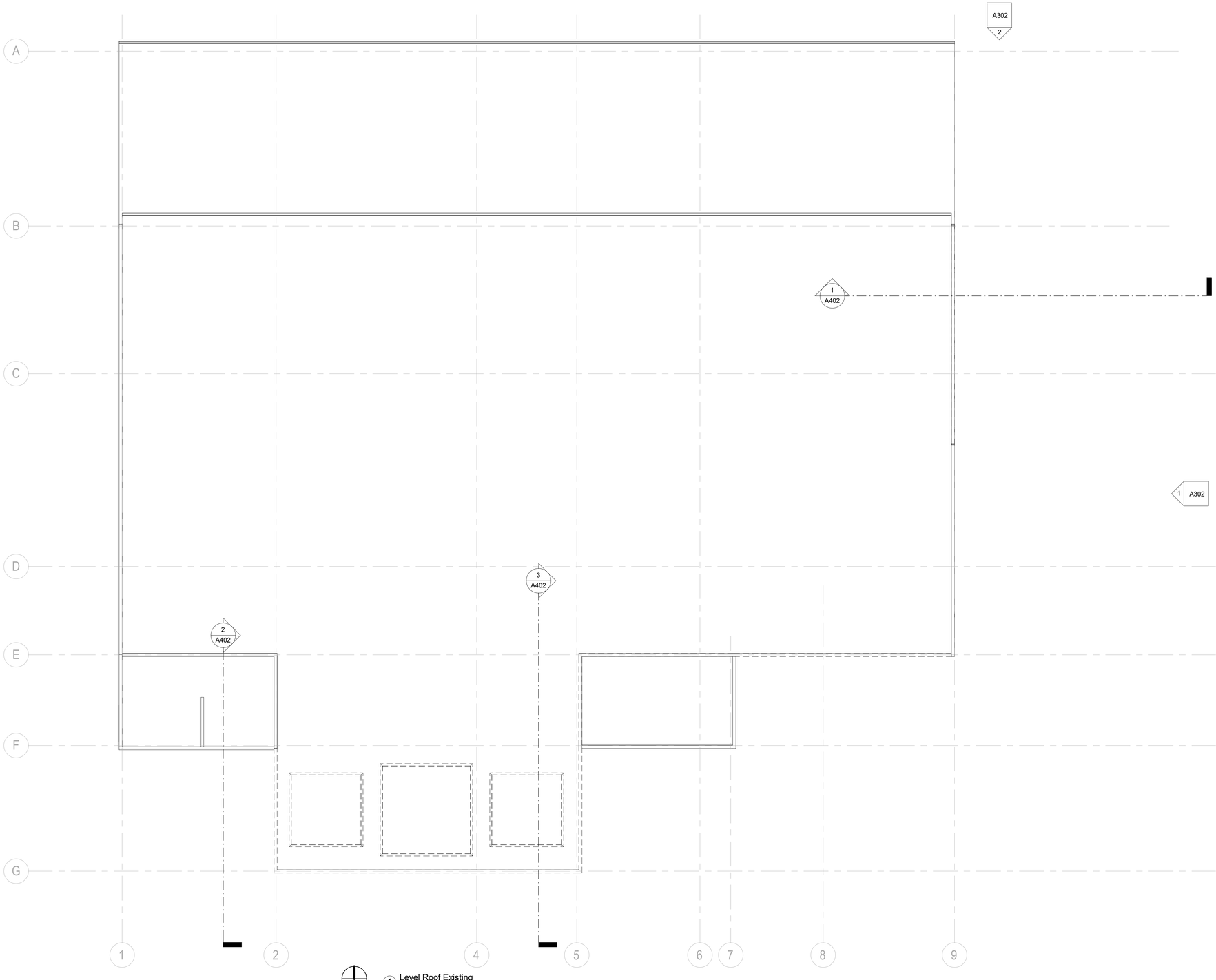
Renovation of the Swami Narayan Temple



1 Level Roof Existing
1/8" = 1'-0"

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2015 MISHRA ARCHITECTURE PLLC

REGISTERED ARCHITECT
ASHISH MISHRA
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Roof Plan Existing

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
A105

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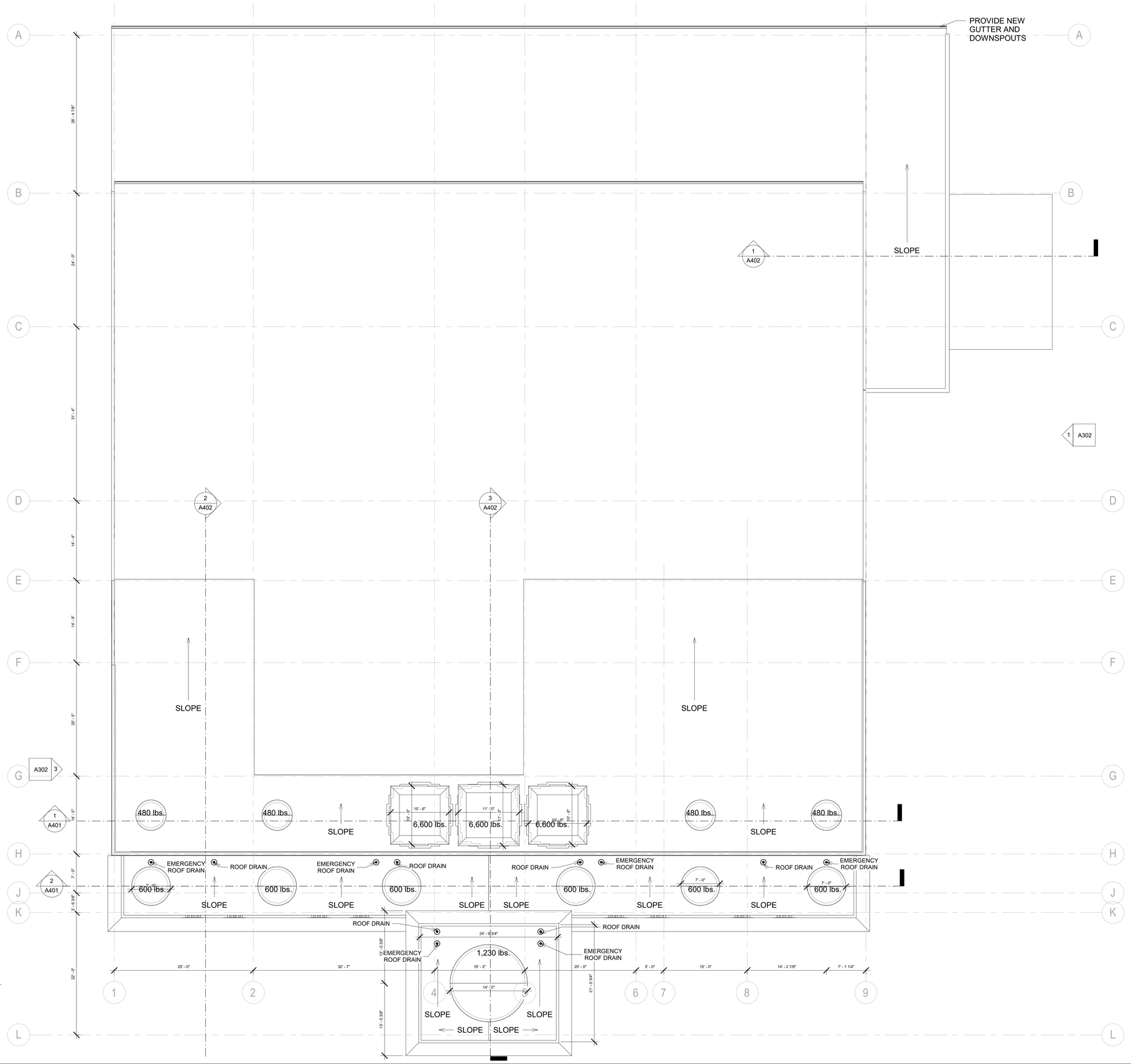
Renovation of the Swami Narayan Temple



DEAD LOADS CALCULATED:

MAIN ROOF:
1. THREE DOMES: 6,600 X 3 = 19,800 LBS.
2. FOUR SMALL DOMES: 480 X 4 = 1,920 LBS.
3. PARAPET DECORATION: 135 FT. X 12 = 1,620 LBS.

PORCH ROOF:
1. SIX DOMES: 600 x 6 = 3,600 LBS.
2. PARAPET DECORATION: 135 X 12 = 1,620 LBS.

PORCH:
1. FOURTEEN COLUMNS: 209 X 14 = 2,926 LBS.
2. FOURTEEN FAKE WINDOWS: 187 X 14 = 2,618 LBS.

ENTRANCE CANOPY ROOF:
1. MAIN DOME: 1,230 LBS.
2. PARAPTET DECORATION: 92 X 14 = 1,288 LBS.

ENTRANCE CANOPY:
1. EIGHT COLUMNS: 350 X 8 = 2,800 LBS.
2. FOUR COLUMN DECORATION: 99 X 4 = 396 LBS.

1 Level Roof New
1/8" = 1'-0"

9/19/2017 1:46:41 PM

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REGISTERED ARCHITECT ASHISH MISHRA A-25617 STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Roof Plan New

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
A106

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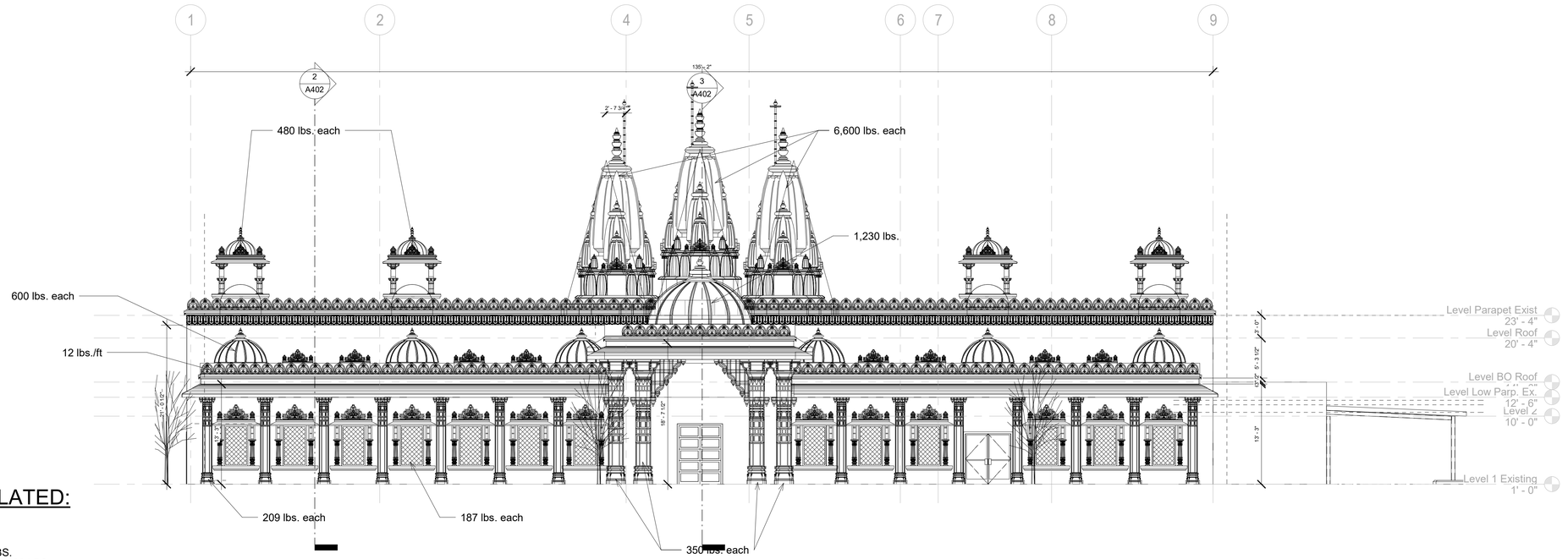
Renovation of the Swami Narayan Temple

Wash Area
122
Dining
120
Open to deck Paint Black
Wash Area
121
Restroom
132
Green Room
119
Audio
131
Day Care
124
Delivery Canopy
143
Walkin Cooler
150
Kitchen
113
Walkin Freezer
151
Meeting
114
Paper Storage
133
Wash
148
Chaplain
149
Wasan Storage
139
Storage Area
140
Stage
123
Open to deck Paint Black
Utility
109
Hers
118
Bedroom
115
Bath
126
His
125
Green Room
116
Corridor
105
Priest
106
Corridor
117
Entry
127
Womens
110
Conference
135
Temple
102
Foyer
101
Makeup Room
144
Living
136
Foyer
141
Library
112
Shoes Women
108
Mech.
134
Closet
145
Mens
104
Bedroom
130
Wash
146
Bedroom
128
Store
137
Store
138
Office
107
Admin. Office
111
Shoes Men
103
Toilet
147
Canopy
142



1 South Overlay
1/8" = 1'-0"

DEAD LOADS CALCULATED:

MAIN ROOF:
1. THREE DOMES: 6,600 X 3 = 19,800 LBS.
2. FOUR SMALL DOMES: 480 X 4 = 1,920 LBS.
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1. EIGHT COLUMNS: 350 X 8 = 2,800 LBS.
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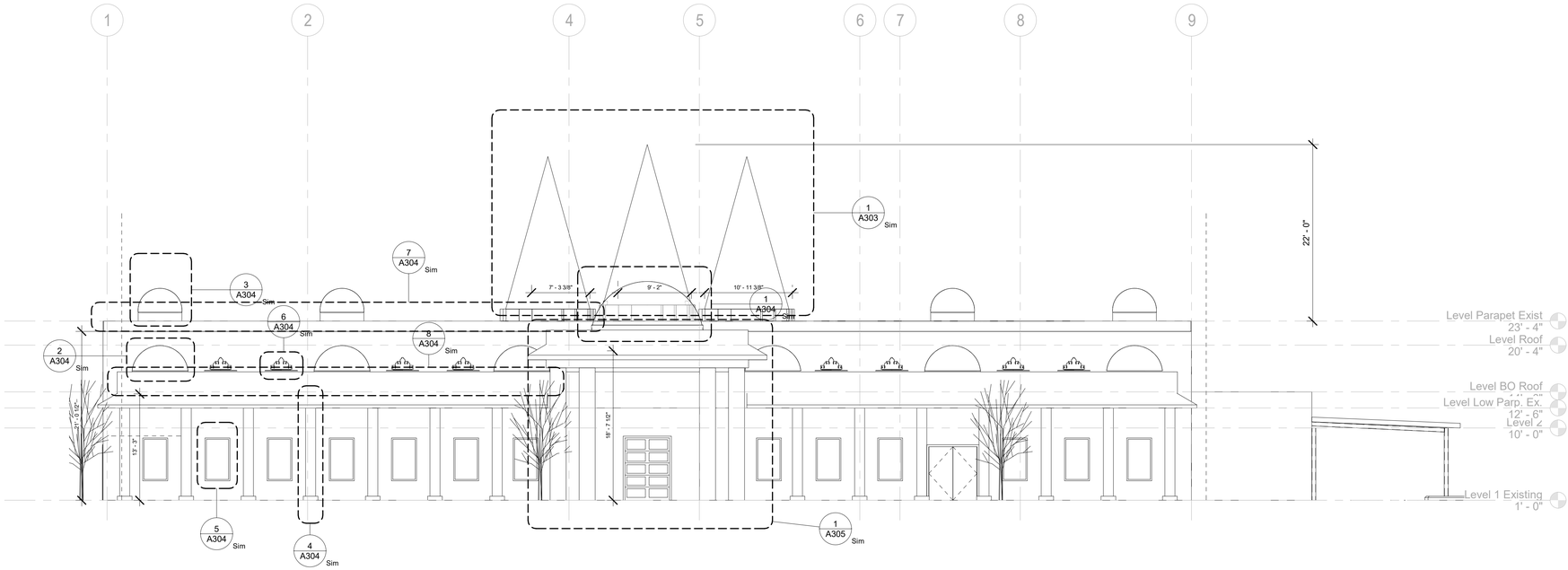

2 South without Decorative Overlay
1/8" = 1'-0"

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REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Elevations

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
A301

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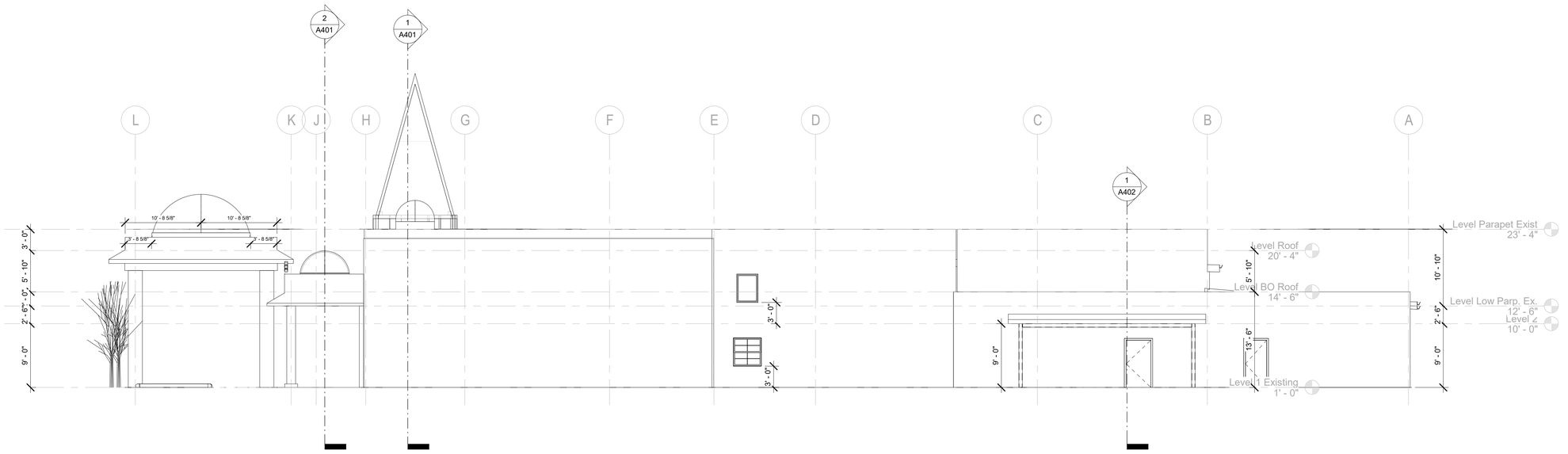
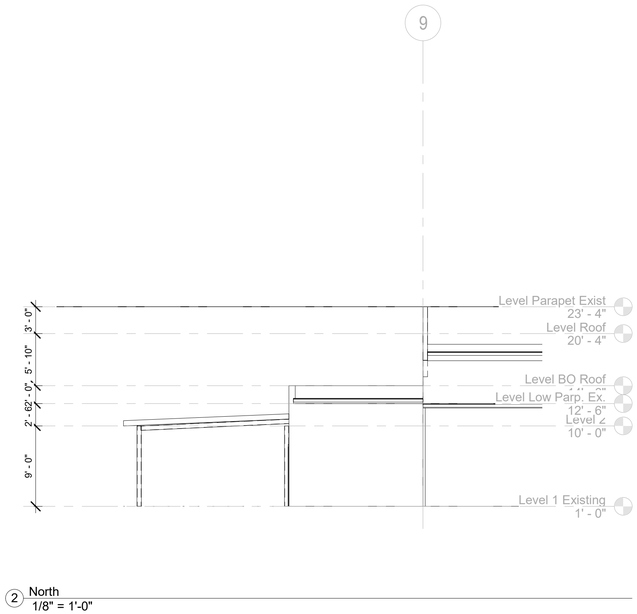
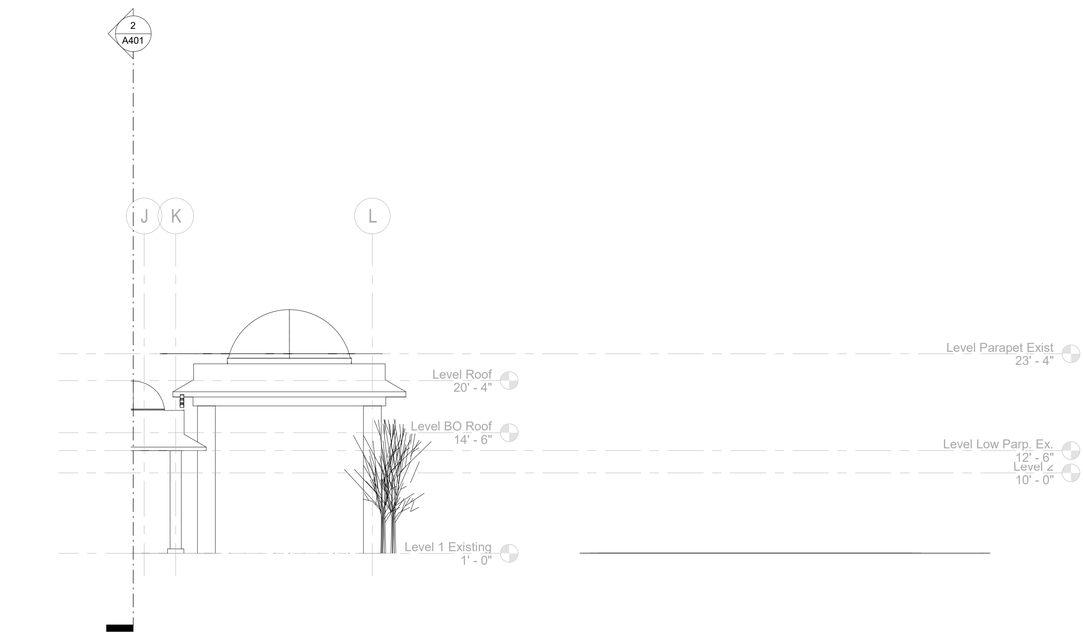
Renovation of the Swami Narayan Temple



1 East
1/8" = 1'-0"



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



3 West
1/8" = 1'-0"

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REGISTERED ARCHITECT
ASHISH MISHRA
3536
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Elevations

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
A302

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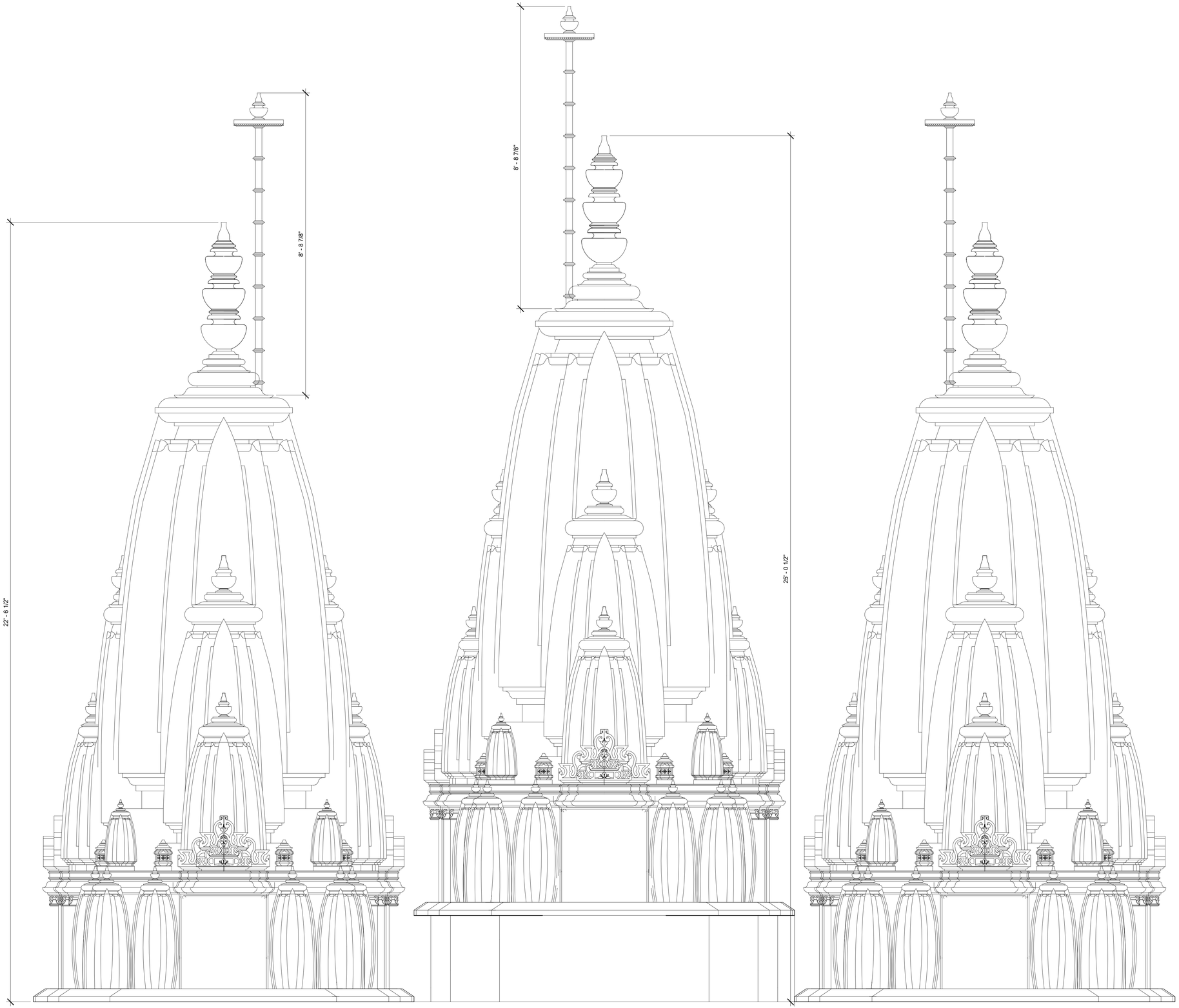
Renovation of the Swami Narayan Temple



1 Main Shikhar
3/4" = 1'-0"

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2015 MISHRA ARCHITECTURE PLLC

REGISTERED ARCHITECT
ASHISH MISHRA
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Elevation Details

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
A303

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Renovation of the Swami Narayan Temple

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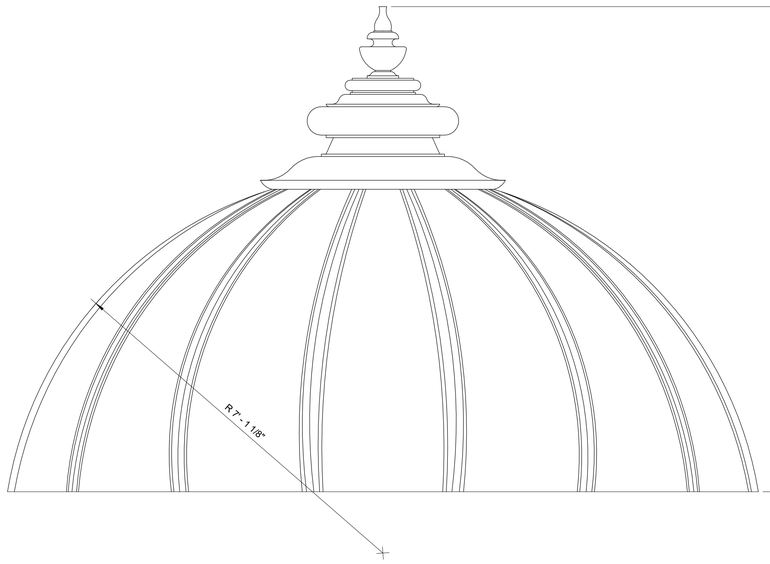
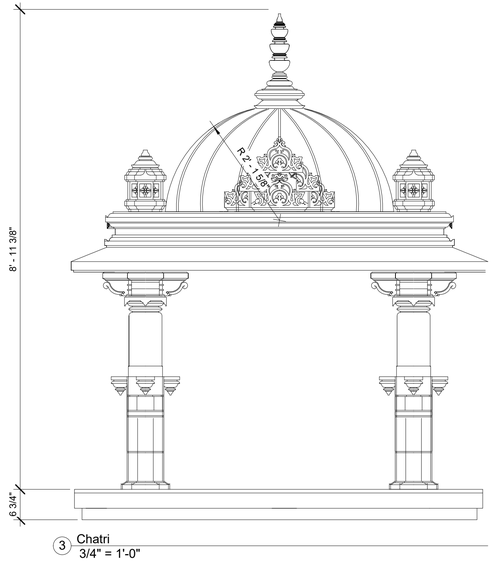
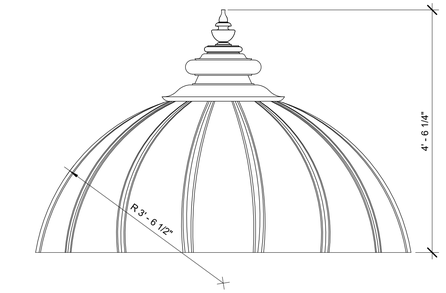


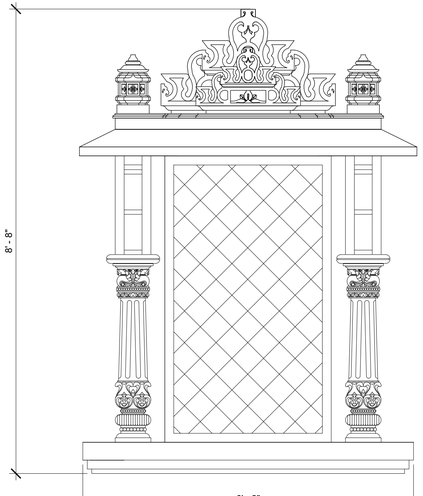
1 Maindome
3/4" = 1'-0"



3 Chatri
3/4" = 1'-0"



2 Smalldome
3/4" = 1'-0"



5 Window
3/4" = 1'-0"

4 Columns
3/4" = 1'-0"

6 Decorations1
1 1/2" = 1'-0"

7 Decorations2
1/4" = 1'-0"

8 Decorations3
1/2" = 1'-0"

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REVISIONS		
No.	Date	Description

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REGISTERED ARCHITECT
ASHISH MISHRA
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Elevation Details

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

Sheet No.
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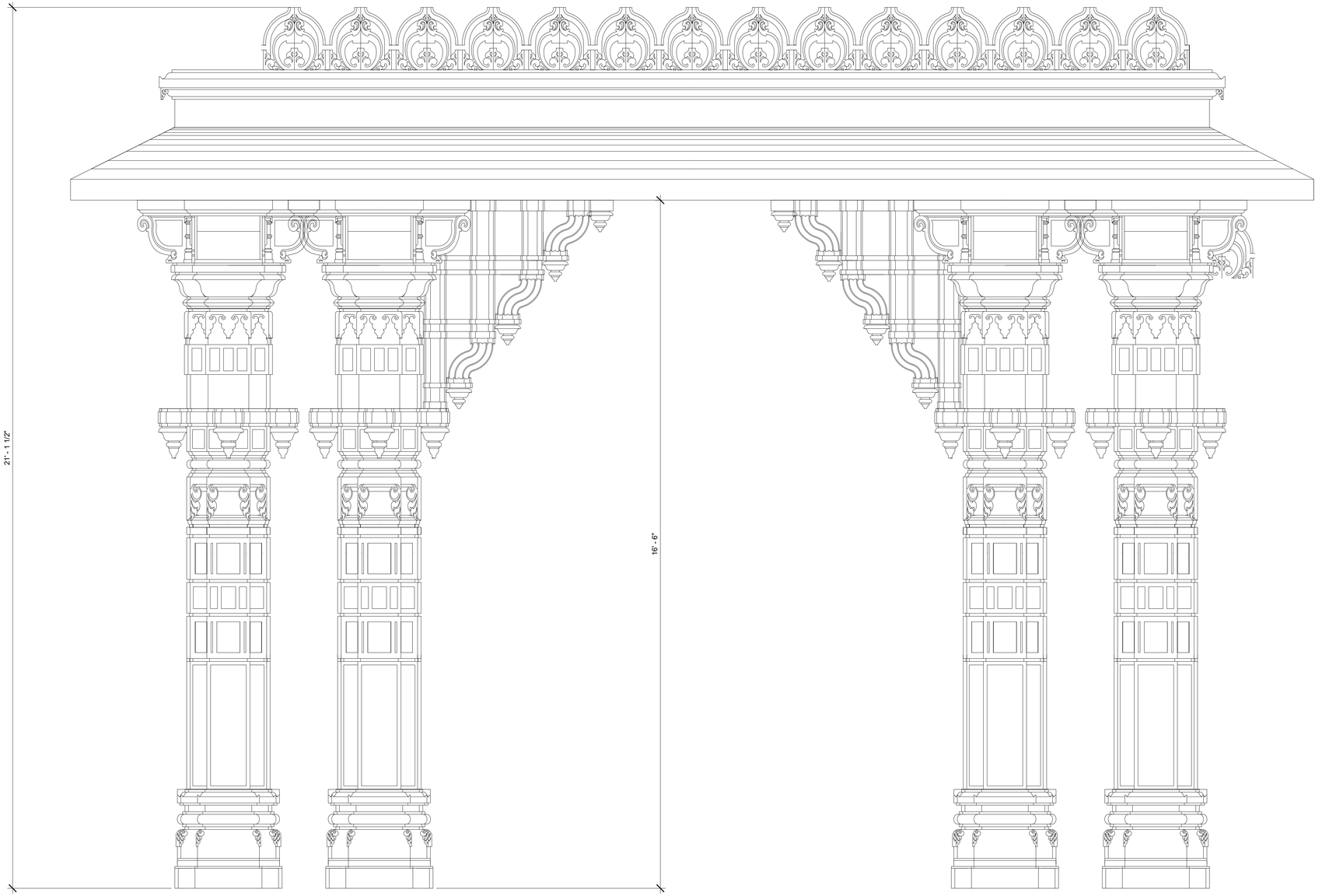

1 Maincolumns
3/4" = 1'-0"

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REGISTERED ARCHITECT
ASHISH MISHRA
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Elevation Details

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
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Date	Apr. 03, 2017

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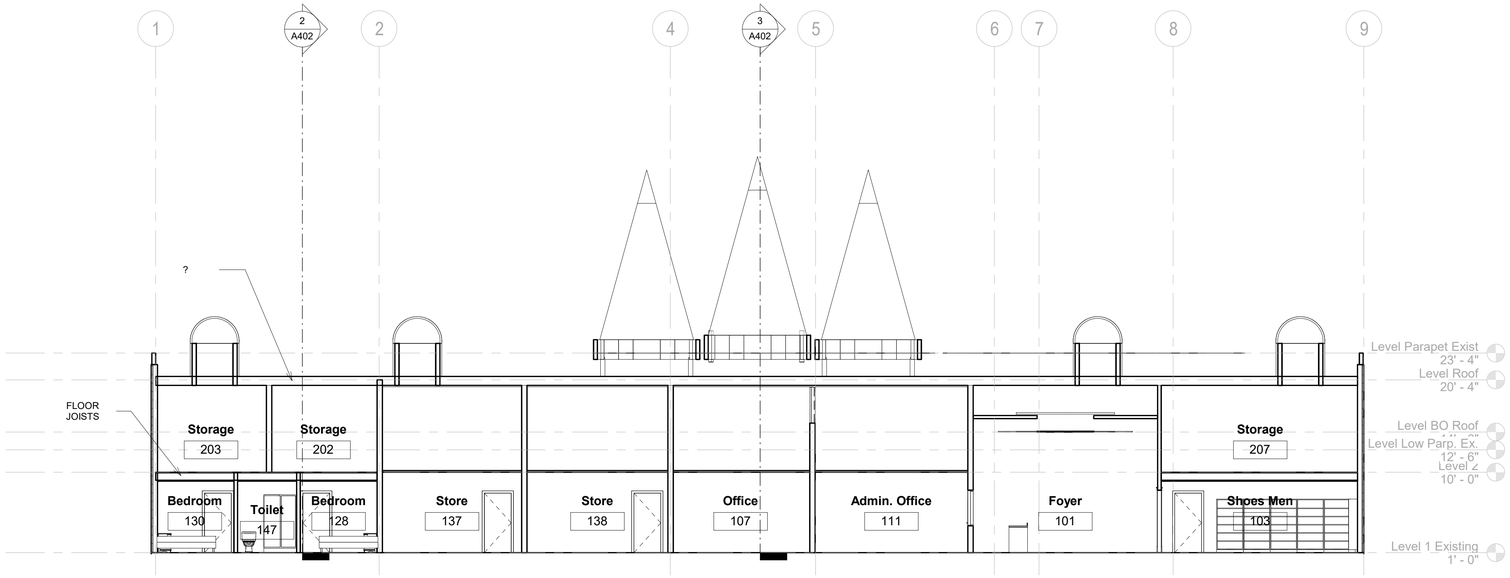
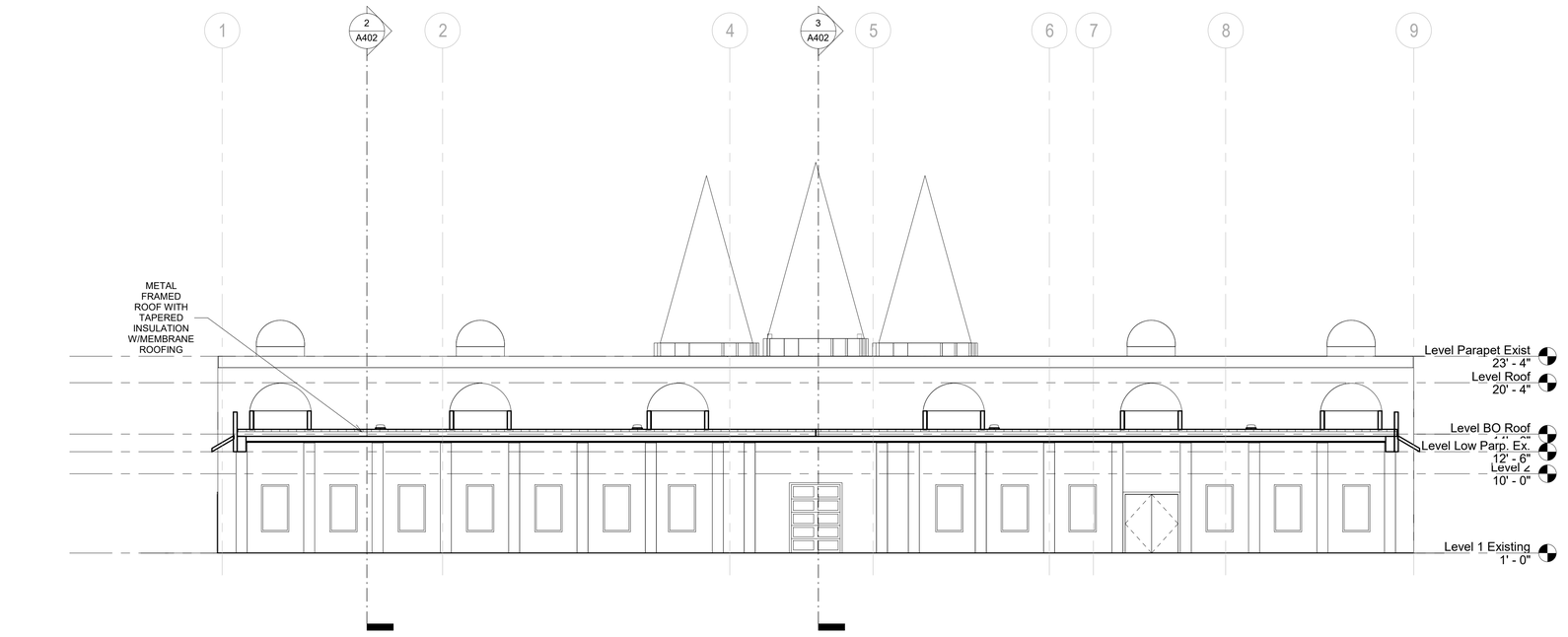


1 Section East-West1
1/8" = 1'-0"



2 Section East-West2
1/8" = 1'-0"

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REGISTERED ARCHITECT
ASHISH MISHRA
#8348
4/3/2017
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Sections

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

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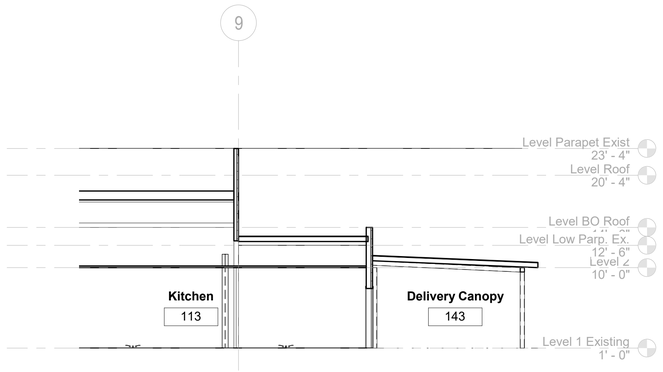
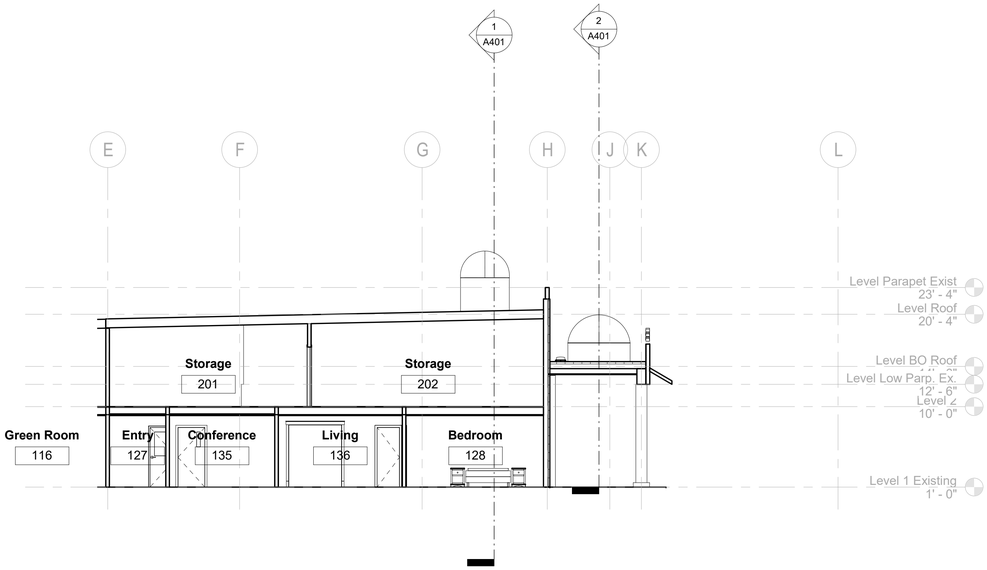
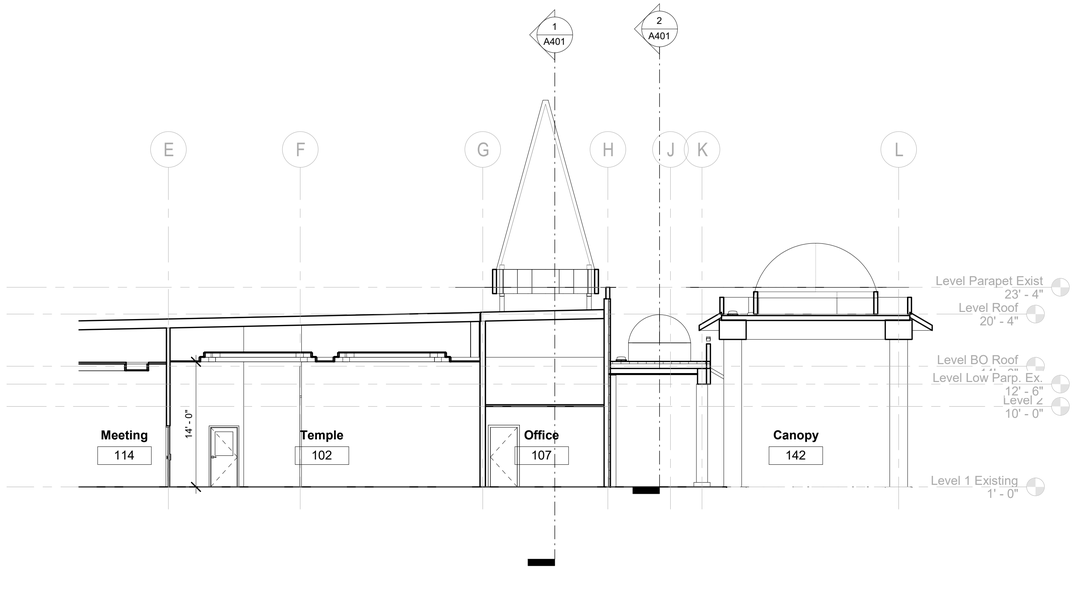
Renovation of the Swami Narayan Temple



1 Section East-West3
1/8" = 1'-0"



2 Section North-South1
1/8" = 1'-0"



3 Section North-South2
1/8" = 1'-0"

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KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Sections

Phase
Construction Documents

Project No. 12-072
Prepared by Author
Checked by Checker
Date Apr. 03, 2017

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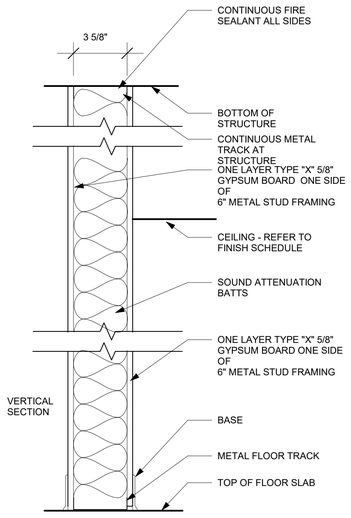
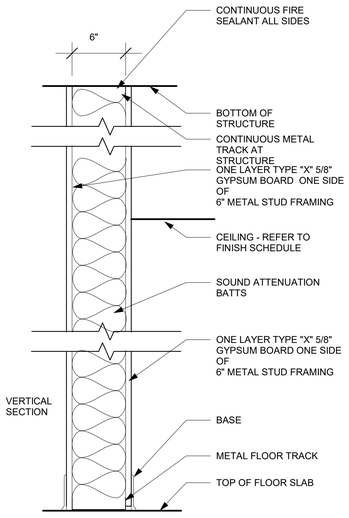
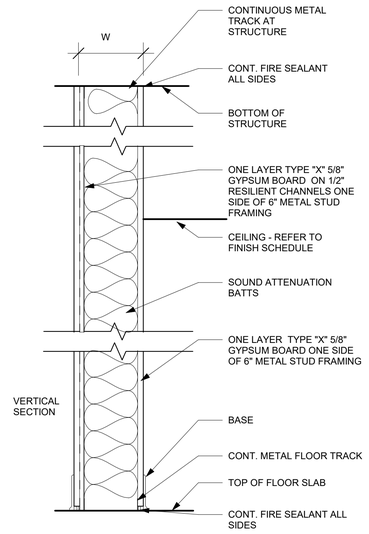


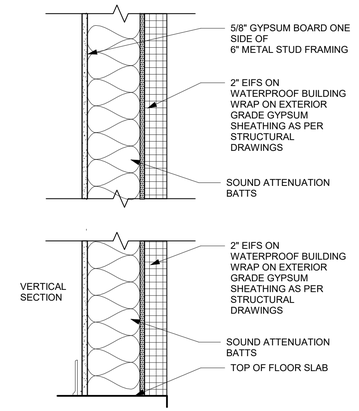
PARTITION TYPE	DESCRIPTION
A	1 HOUR RATED PARTITION W = AS PER 6" STUD SIZE
STC 50 UL: U419 PARTITION TYPE A TO USE 5/8" MR GWB ON WET WALLS AT ALL SHOWER RESTROOMS AND PTAC WALLS	



PARTITION TYPE	DESCRIPTION
B	1 HOUR RATED PARTITION W = AS PER 6" STUD SIZE
STC 50 UL: U419 PARTITION TYPE A TO USE 5/8" MR GWB ON WET WALLS AT ALL SHOWER RESTROOMS AND PTAC WALLS	

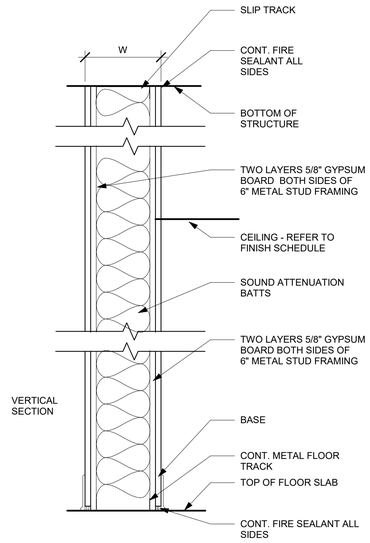


PARTITION TYPE	DESCRIPTION
C	1 HOUR RATED PARTITION W = AS PER 6" STUD SIZE
STC 50- 54 UL: U423 PARTITION TYPE A TO USE 5/8" MR GWB ON WET WALLS AT ALL SHOWER RESTROOMS	

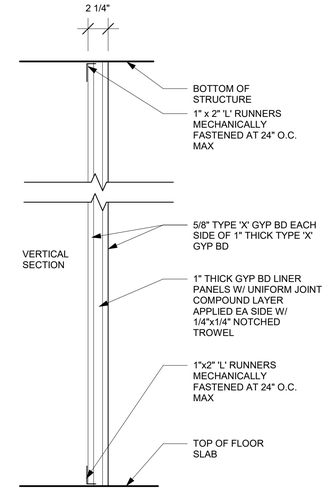


EXTERIOR STUCCO WALL ON METAL STUDS

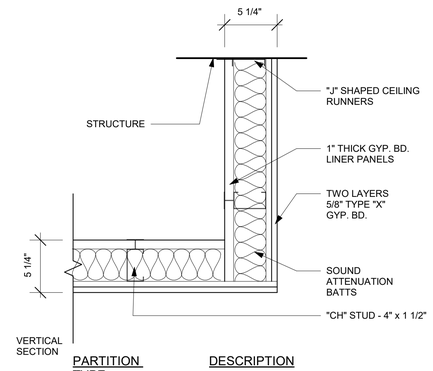
D	DESCRIPTION
UL: U418	EXTERIOR WALL WITH EIFS
D1	4" METAL STUDS



PARTITION TYPE	DESCRIPTION
E	2 HOUR RATED PARTITION W = AS PER 6" STUD SIZE
STC 50 UL: U411	
E 1	2 HOUR RATED PARTITION WITH 3 5/8" METAL STUDS



PARTITION TYPE	DESCRIPTION
F	2 HOUR RATED SHAFT WALL
U.L. DESIGN U529	



PARTITION TYPE	DESCRIPTION
M	1 HOUR RATED HORIZ DUCT PROTECTION

TP: TOILET PARTITION WALL

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REGISTERED ARCHITECT ASHISH MISHRA STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Wall Types

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
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Date	Apr. 03, 2017

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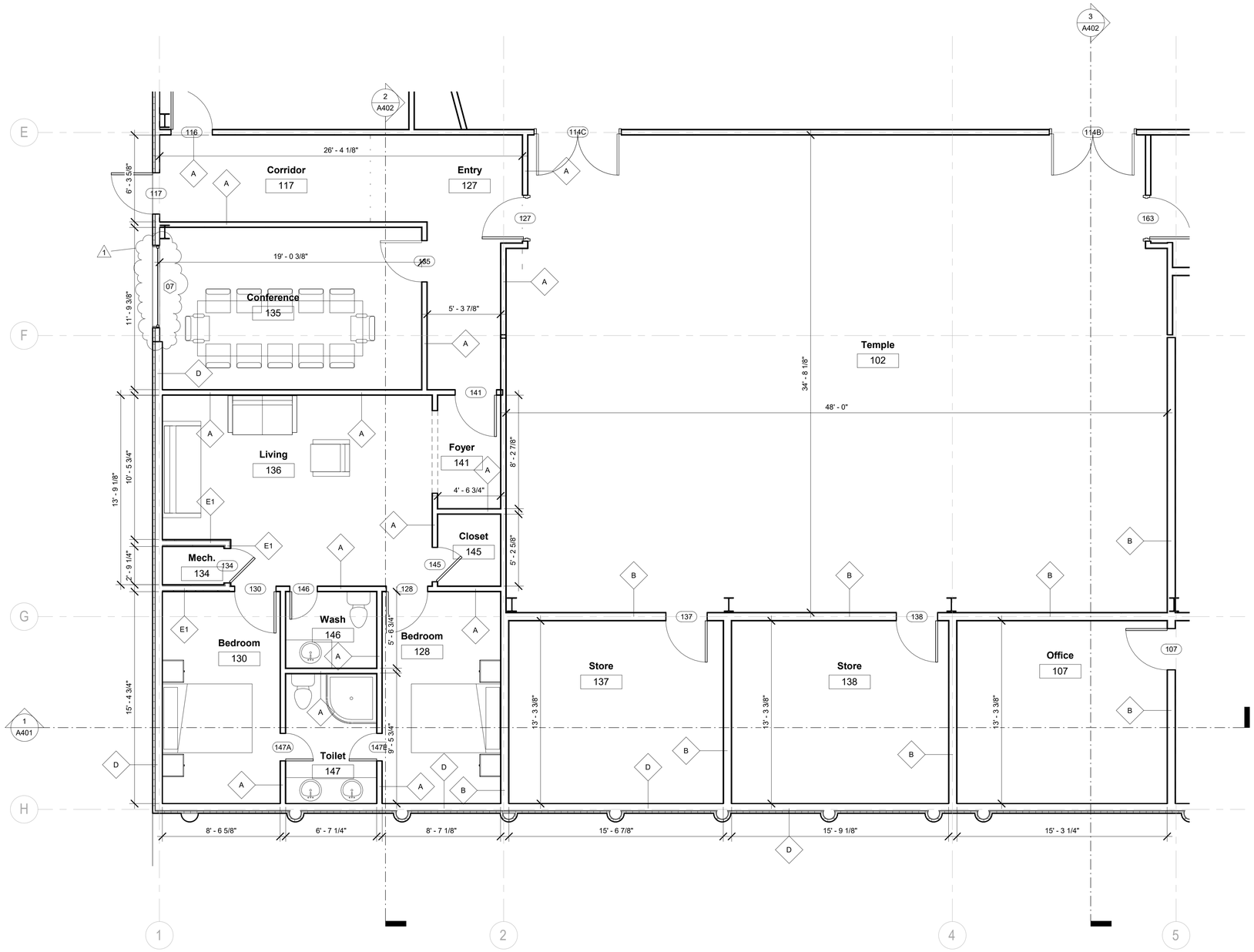

1 Level 1 New Front of Building
1/4" = 1'-0"

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REVISIONS		
No.	Date	Description
1	9/19/17	Owner request windows

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REGISTERED ARCHITECT ASHISH MISHRA STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Front Area Layout

Phase
Construction Documents

Project No. 12-072
Prepared by Author
Checked by Checker
Date Apr. 03, 2017

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Renovation of the Swami Narayan Temple

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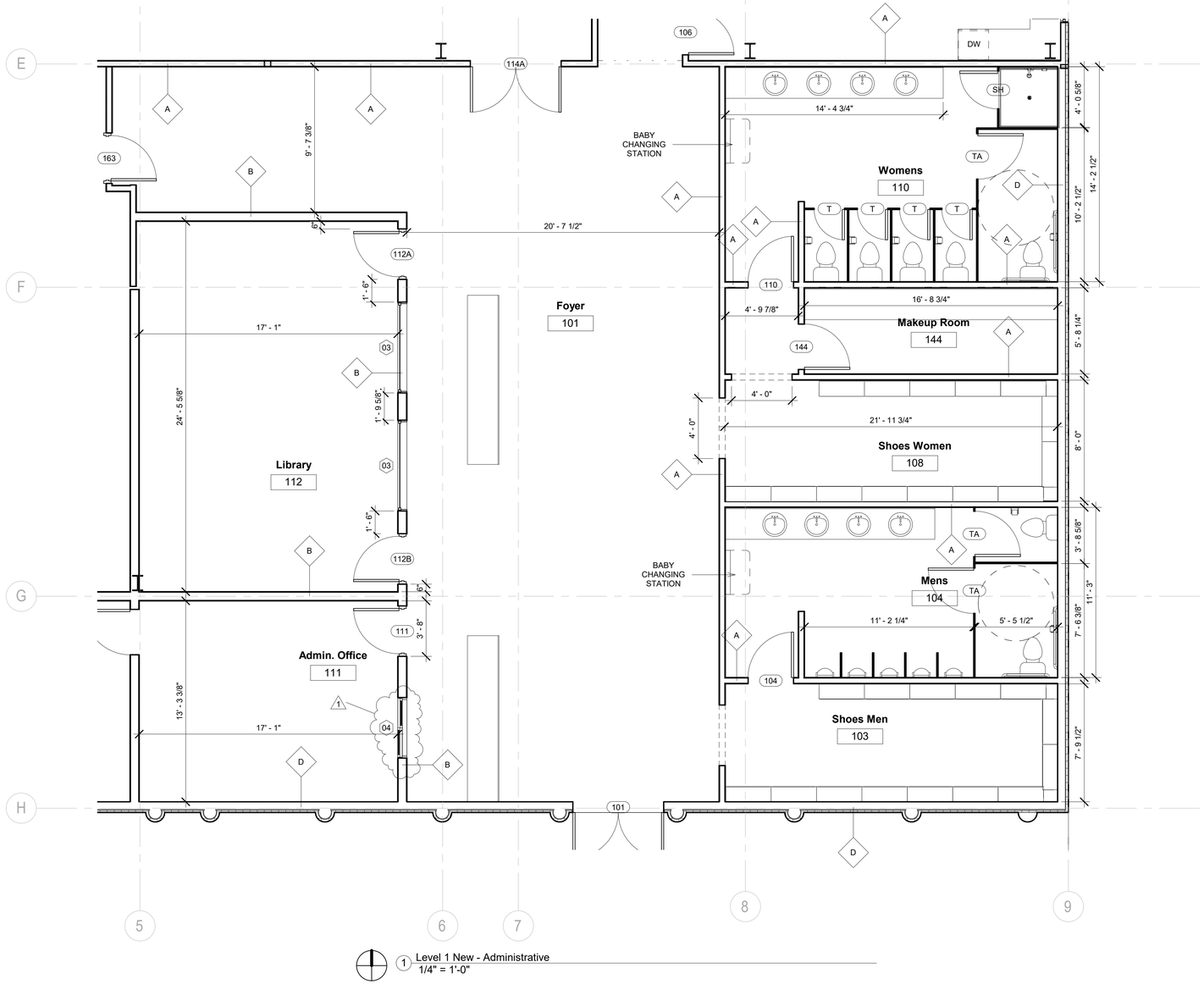
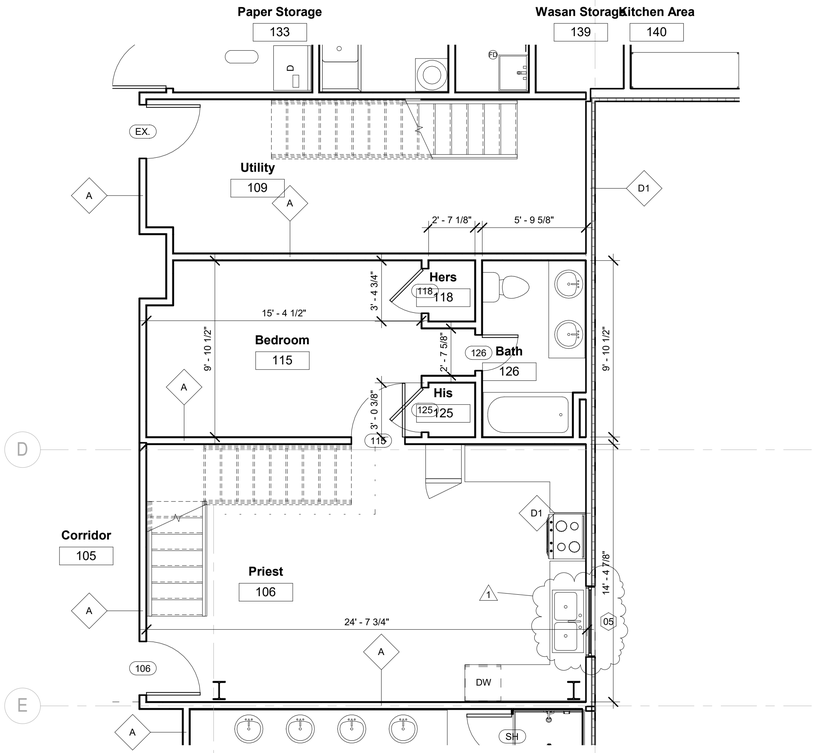


1 Level 1 New - Administrative
1/4" = 1'-0"



2 Level 1 New - Residential
1/4" = 1'-0"

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No.	Date	Description
1	9/19/17	Owner request windows

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REGISTERED ARCHITECT
ASHISH MISHRA
STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Administration & Residential Layout

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
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Date	Apr. 03, 2017

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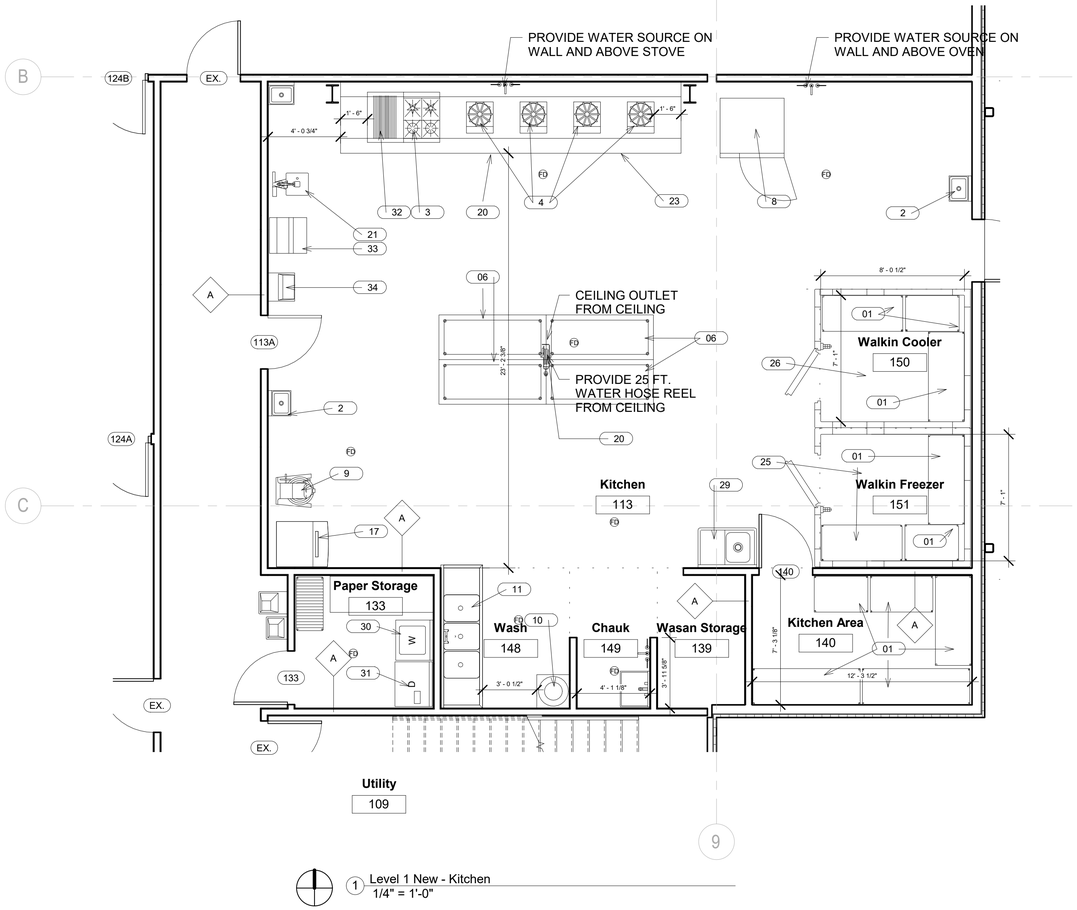
Renovation of the Swami Narayan Temple



QTY	ITEM#	EQUIPMENT CATEGORY
1lot	#01	WIRE SHELF
2	#02	SINK HAND, WALL MOUNTED
1	#03	BURNER RANGE GAS
4	#04	STOVE, BAKERS/CONFECTIONERS/STOCK POT
1	#05	REFRIGERATOR, REACH IN
4	#06	WORK TABLE
1	#07	DOUGH DIVIDER
1	#08	OVEN-STEAMER COMBINATION
1	#09	MIXER, FLOOR
1	#10	PEELER, POTATO/VEGETABLE
1	#11	SINK, SCULLERY, 3 COMPARTMENT
0	#12	PRE-RINSE FAUCET, WALL MOUNT
0	#13	DISPOSER, GARBAGE
0	#14	OVEN, MICROWAVE
0	#15	CABINET, MOBILE, WARMING & HOLDING
0	#16	TOASTER, CONVEYOR
1	#17	ICE MAKER W/ BIN
0	#18	CHIP WARMER
0	#19	VEGIE PREP TABLE/SINK
1	#20	CEILING MOUNT, HOSE REEL WITH CONTROL BOX
0	#21	TORTILLA PRESS
0	#22	TORTILLA GRIDDLE
1	#23	VENT HOOD; TYPE I
0	#24	VENT HOOD; TYPE II
1	#25	WALK-IN FREEZER
1	#26	WALK-IN COOLER
1	#27	DISHTABLE, STRAIGHT
0	#28	WAREWASHER, DOOR TYPE
1	#29	SINK SCULLERY, 1 COMPARTMENT
1	#30	WASHER RESIDENTIAL TYPE
1	#31	DRYER RESIDENTIAL TYPE
1	#32	CHARBOILER
1	#33	DOUGH PRESS
1	#34	BARRIER FREE WATER FOUNTAIN

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REGISTERED ARCHITECT ASHISH MISHRA STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen

Phase
Construction Documents

Project No. 12-072
Prepared by Author
Checked by Checker
Date Apr. 03, 2017

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Room Schedule

Number	Name	Area	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Ceiling Height	Comments
101	Foyer	1186 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd./ACT	13'-6"/15'-0"/15'-6"	
102	Temple	1639 SF	Carpet	Carpet	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	14'-0"/14'-6"/15'-0"	
103	Shoes Men	171 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
104	Mens	182 SF	Ceramic Tile	Cer. Tile	Cer Tile/Ptd. Gyp. Bd.	ACT II	8'-0"	Ceramic Tile 5 Feet on Walls
105	Corridor	403 SF	Existing	Existing	Existing	A.C.T.	8'-0"	
106	Priest	354 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
107	Office	203 SF	Carpet	Wood	Ptd. Gyp. Bd.	A.C.T.	9'-0"	
108	Shoes Women	176 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
109	Utility	209 SF	Existing	Existing	Existing	Existing	STRUCTURE	
110	Womens	184 SF	Ceramic Tile	Cer. Tile	Cer Tile/Ptd. Gyp. Bd.	ACT II	8'-0"	Ceramic Tile 5 Feet on Walls
111	Admin. Office	227 SF	Carpet	Wood	Ptd. Gyp. Bd.	A.C.T.	9'-0"	
112	Library	419 SF	Carpet	Wood	Ptd. Gyp. Bd.	A.C.T.	10'-0"	
113	Kitchen	938 SF	Ceramic Tile	Cer. Tile	FRP	ACT II	9'-0"	Washable Fiber Reinforced Plastic Walls
114	Meeting	4954 SF	Carpet	Carpet	Ptd. Gyp. Bd.	A.C.T.	13'-9"	
115	Bedroom	156 SF	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
116	Green Room	258 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
117	Corridor	97 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	A.C.T.	8'-0"	
118	Hers	9 SF	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
119	Green Room	254 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
120	Dining	3860 SF	Carpet	Wood	Ptd. Gyp. Bd.	A.C.T.	9'-0"	
121	Wash Area	119 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	A.C.T.	9'-0"	
122	Wash Area	168 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	A.C.T.	9'-0"	
123	Stage	683 SF	Carpet	Wood	Ptd. Gyp. Bd.	A.C.T.	13'-9"	
124	Day Care	368 SF	Carpet	Wood	Ptd. Gyp. Bd.	A.C.T.	13'-9"	
125	His	8 SF	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
126	Bath	55 SF	Ceramic Tile	Cer. Tile	Cer Tile/Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
127	Entry	137 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	A.C.T.	8'-0"	
128	Bedroom	132 SF	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
130	Bedroom	132 SF	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
131	Audio	121 SF	Carpet	Wood	Ptd. Gyp. Bd.	A.C.T.	13'-9"	
132	Restroom	63 SF	Ceramic Tile	Cer. Tile	Cer Tile/Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
133	Paper Storage	58 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	A.C.T.	9'-0"	
134	Mech.	12 SF	Sealed Concrete	Vinyl	Cer Tile/Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
135	Conference	223 SF	Carpet	Wood	Ptd. Gyp. Bd.	A.C.T.	8'-0"	
136	Living	255 SF	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
137	Store	207 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	A.C.T.	9'-0"	
138	Store	209 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	A.C.T.	9'-0"	
139	Wasan Storage	37 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	ACT II	9'-0"	
140	Kitchen Area	89 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	ACT II	9'-0"	
141	Foyer	38 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
142	Canopy	519 SF	Stamped Concrete					
143	Delivery Canopy	516 SF	Sealed Concrete					
144	Makeup Room	95 SF	Ceramic Tile	Cer. Tile		Ptd. Gyp. Bd.	8'-0"	
145	Closet	24 SF	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
146	Wash	37 SF	Ceramic Tile	Cer. Tile	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
147	Toilet	62 SF	Ceramic Tile	Cer. Tile	Cer Tile/Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
148	Wash	57 SF	Ceramic Tile	Cer. Tile	Ceramic Tile	ACT II	9'-0"	
149	Chauk	35 SF	Ceramic Tile	Cer. Tile	Ceramic Tile	ACT II	9'-0"	
150	Walkin Cooler	66 SF	Sealed Concrete	Vinyl				
151	Walkin Freezer	67 SF	Sealed Concrete	Vinyl				
201	Storage	546 SF	Sheathing			Structure		
202	Storage	306 SF	Sheathing			Structure		
203	Storage	317 SF	Sheathing			Structure		
204	Living Room	312 SF	Carpet	Carpet	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
205	Bedroom	178 SF	Carpet	Wood	Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
206	Toilet	55 SF	Ceramic Tile	Cer. Tile	Cer Tile/Ptd. Gyp. Bd.	Ptd. Gyp. Bd.	8'-0"	
207	Storage	1066 SF	Sheathing			Structure		

FINISH LEGEND

1. ALL BATHROOMS WILL HAVE CERAMIC TILE FLOORS.
2. KITCHEN AREA WILL HAVE INSTALLED FIBER REINFORCED PLASTIC WALLS THAT CAN BE WASHED.
3. BATHROOM WALLS WILL HAVE CERAMIC TILES TO A MINIMUM HEIGHT OF 5'-0" ABOVE FINISHED FLOOR LEVEL.
4. ACT II IS A MOISTURE-RESISTANT ACOUSTICAL CEILING TILE.
5. PUBLIC AREAS THAT SHOWS ACOUSTICAL CEILING TILES WILL BE INSTALLED WITH TEGULAR ACOUSTICAL CEILING TILES WITH REVEAL AS APPROVED BY ARCHITECT/OWNER.
6. TILES IN THE BATHROOMS AND PUBLIC ACCESS AREAS WILL HAVE TILE WITH A MINIMUM SLIP RESISTANCE OF 0.60 ON THE ASTM C-1028 TEST WET AND DRY.

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REVISIONS

No.	Date	Description

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2015 MISHRA ARCHITECTURE PLLC

REGISTERED ARCHITECT ASHISH MISHRA 19267 STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Room Schedule

Phase
Construction Documents

Project No. 12-072
Prepared by Author
Checked by Checker
Date Apr. 03, 2017

Sheet No.
A701

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Renovation of the Swami Narayan Temple

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Door Schedule

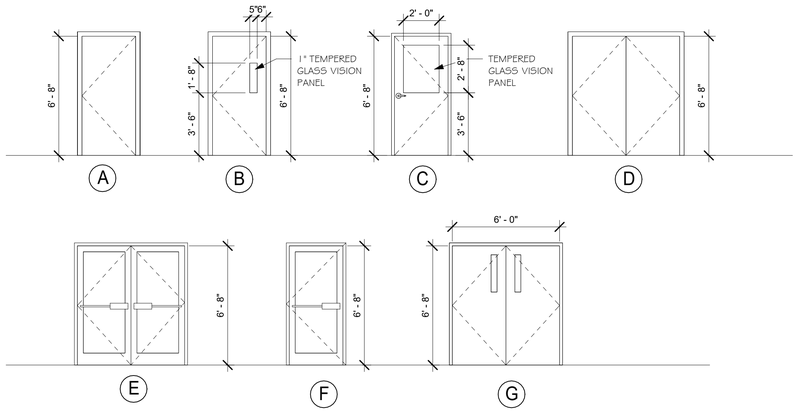
Mark	Width	Height	Door Types	Door Material	Thickness	Frame Material	Fire Rating	Comments
101	6' - 0"	6' - 8"	D	H.M.	1 3/4"	H.M.		PANIC HARDWARE
104	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.	45 MINS.	
106	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		KEYED LOCK
107	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
109	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
110	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.	45 MINS.	
111	3' - 0"	6' - 8"	C	SCWD	1 3/4"	H.M.	45 MINS.	KEYED LOCK
112A	3' - 0"	6' - 8"	C	SCWD	1 3/4"	H.M.	45 MINS.	KEYED LOCK
112B	3' - 0"	6' - 8"	C	SCWD	1 3/4"	H.M.	45 MINS.	KEYED LOCK
113A	3' - 0"	6' - 8"	B	SCWD	1 3/4"	H.M.	45 MINS.	
113B	3' - 6"	6' - 8"	A	H.M.	1 3/4"	H.M.		PANIC HARDWARE
114A	6' - 0"	6' - 8"	G	SCWD	1 3/4"	H.M.	45 MINS.	
114B	3' - 0"	6' - 8"	E	ALUM.	1 3/4"	ALUM.		PANIC HARDWARE
114C	3' - 0"	6' - 8"	E	ALUM.	1 3/4"	ALUM.		PANIC HARDWARE
114D	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
114E	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
115	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
116	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.	45 MINS.	
117	3' - 0"	6' - 8"	A	H.M.	1 3/4"	H.M.		PANIC HARDWARE
118	2' - 6"	6' - 8"	A	SCWD	1 3/4"	H.M.		
119	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
120A	3' - 0"	6' - 8"	A	H.M.	1 3/4"	H.M.		PANIC HARDWARE
120B	3' - 0"	6' - 8"	A	H.M.	1 3/4"	H.M.		PANIC HARDWARE
123A	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
123B	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
124A	3' - 0"	6' - 8"	F	ALUM.	1 3/4"	ALUM.		PANIC HARDWARE
124B	3' - 0"	6' - 8"	F	ALUM.	1 3/4"	ALUM.		
125	2' - 6"	6' - 8"	A	SCWD	1 3/4"	H.M.		
126	2' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
127	3' - 0"	6' - 8"	C	SCWD	1 3/4"	H.M.	45 MINS.	PANIC HARDWARE
128	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
130	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
132	2' - 6"	6' - 8"	A	SCWD	1 3/4"	H.M.		PRIVACY LOCK
133	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.	45 MINS.	KEYED LOCK
134	2' - 6"	6' - 8"	A	SCWD	1 3/4"	H.M.	90 MINS	
135	3' - 0"	6' - 8"	B	SCWD	1 3/4"	H.M.	45 MINS.	
137	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		KEYED LOCK
138	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		KEYED LOCK
140	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		KEYED LOCK
141	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.	45 MINS.	KEYED LOCK
144	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.	45 MINS.	
145	2' - 6"	6' - 8"	A	SCWD	1 3/4"	H.M.		
146	2' - 6"	6' - 8"	A	SCWD	2"	H.M.		PRIVACY LOCK
147A	2' - 6"	6' - 8"	A	SCWD	2"	H.M.		PRIVACY LOCK
147B	2' - 6"	6' - 8"	A	SCWD	2"	H.M.		PRIVACY LOCK
163	3' - 0"	6' - 8"	C	SCWD	1 3/4"	H.M.	45 MINS.	PANIC HARDWARE
202	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
203	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
205	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
206	2' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
207	3' - 0"	6' - 8"	A	SCWD	1 3/4"	H.M.		
SH	2' - 6"	6' - 8"			2"			
T	2' - 0"	6' - 8"			1 3/4"			
TA	3' - 0"	6' - 8"			1 3/4"			

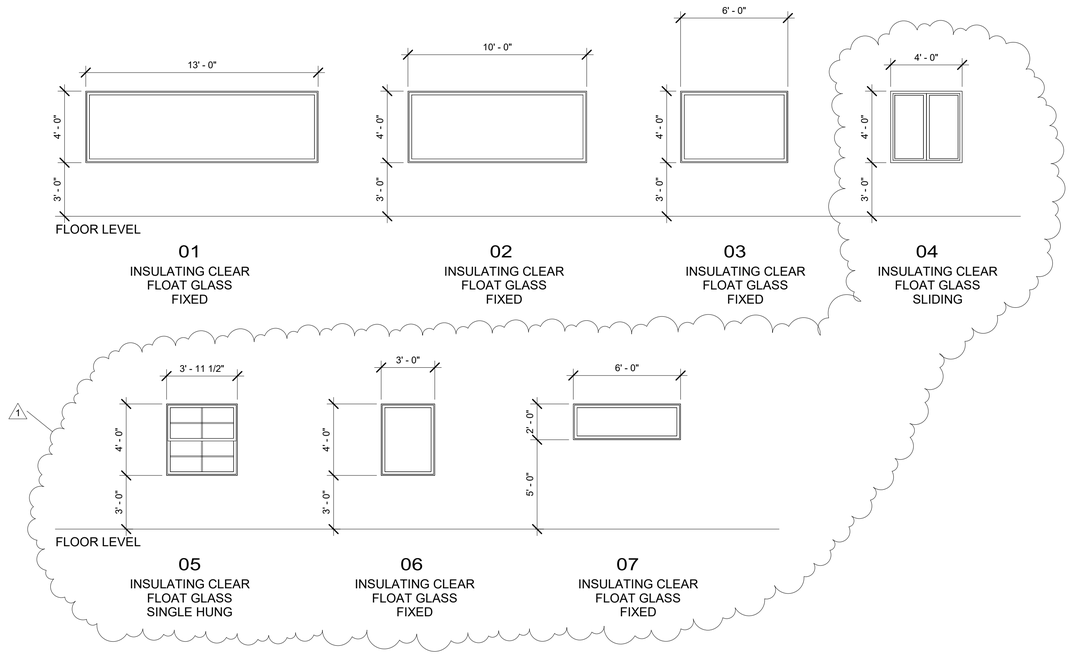
Window Schedule

Type Mark	Width	Height	Head Height	Sill Height	Count
01	13' - 0"	4' - 0"	7' - 0"	3' - 0"	1
02	10' - 0"	4' - 0"	7' - 0"	3' - 0"	1
03	6' - 0"	4' - 0"	7' - 0"	3' - 0"	1
03	6' - 0"	4' - 0"	7' - 0"	3' - 0"	1
04	4' - 0"	4' - 0"	7' - 0"	3' - 0"	1
05	3' - 11 1/2"	4' - 0"	7' - 0"	3' - 0"	1
06	3' - 0"	4' - 0"	7' - 0"	3' - 0"	1
07	6' - 0"	2' - 0"	7' - 0"	5' - 0"	1
07	6' - 0"	2' - 0"	7' - 0"	5' - 0"	1

NOTES:

1. DOOR FINISHES ARE STAIN GRADE OAK, PLASTIC LAMINATE, PAINTED OR PREFINISHED.
2. GLASS COLOR OF ENTRANCE DOORS SHALL BE APPROVED BY OWNER AND ARCHITECT.
3. PROVIDE KEYED LOCKS AT ALL EXTERIOR DOORS.
4. PROVIDE PANIC HARDWARE ON ALL EGRESS DOORS.
5. ALL DOOR RATING REQUIREMENTS SHALL BE VERIFIED WITH THE LOCAL JURISDICTION.
6. AUTOMATIC CLOSING AND LATCHING DEVICE TO BE PROVIDED ON ALL DOORS INCLUDING THE PUBLIC RESTROOMS, STORAGE, MAINTENANCE AND EQUIPMENT ROOMS.





WINDOW LEGEND:

1. ALL WINDOW FRAMES TO HAVE THERMAL BREAK.
2. CONTRACTOR TO SUBMIT WINDOW SUBMITTAL FOR REVIEW BY ARCHITECT.

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REVISIONS		
No.	Date	Description
1	9/19/17	Owner request windows
2	3/19/18	Owner request

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REGISTERED ARCHITECT ASHISH MISHRA 23346 STATE OF MISSISSIPPI

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Door & Window Schedule

Phase
Construction Documents

Project No. 12-072
Prepared by Author
Checked by Checker
Date Apr. 03, 2017

Sheet No.
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3/19/2018 11:10:26 AM

NEW ADDITION OCCUPANT LOAD CALCULATIONS

Level	Space	Area Sq. Ft.	Occupancy Classification	Area/Occupant Load	Occupant Load
1ST	ASSEMBLY	2,245	A-3	50	45
1ST	DINING	420	A-2	15	28
1ST	STORAGE/MECH.	857	S-2	300	3
1ST	OFFICE	430	B	100	4
1ST	KITCHEN	531	F-1	100	5
1ST	RESIDENTIAL	680	R-3	200	3
			TOTAL FIRST FLOOR ADDITIONAL OCCUPANT LOAD:		89
2ND	STORAGE	2,600	S-2	300	9
			TOTAL SECOND FLOOR ADDITIONAL OCCUPANT LOAD:		9
			TOTAL FIRST & SECOND FLOOR ADDITIONAL OCCUPANT LOAD:		98

FIRST FLOOR ADDITIONAL OCCUPANT LOAD: 89
SECOND FLOOR ADDITIONAL OCCUPANT LOAD: 9

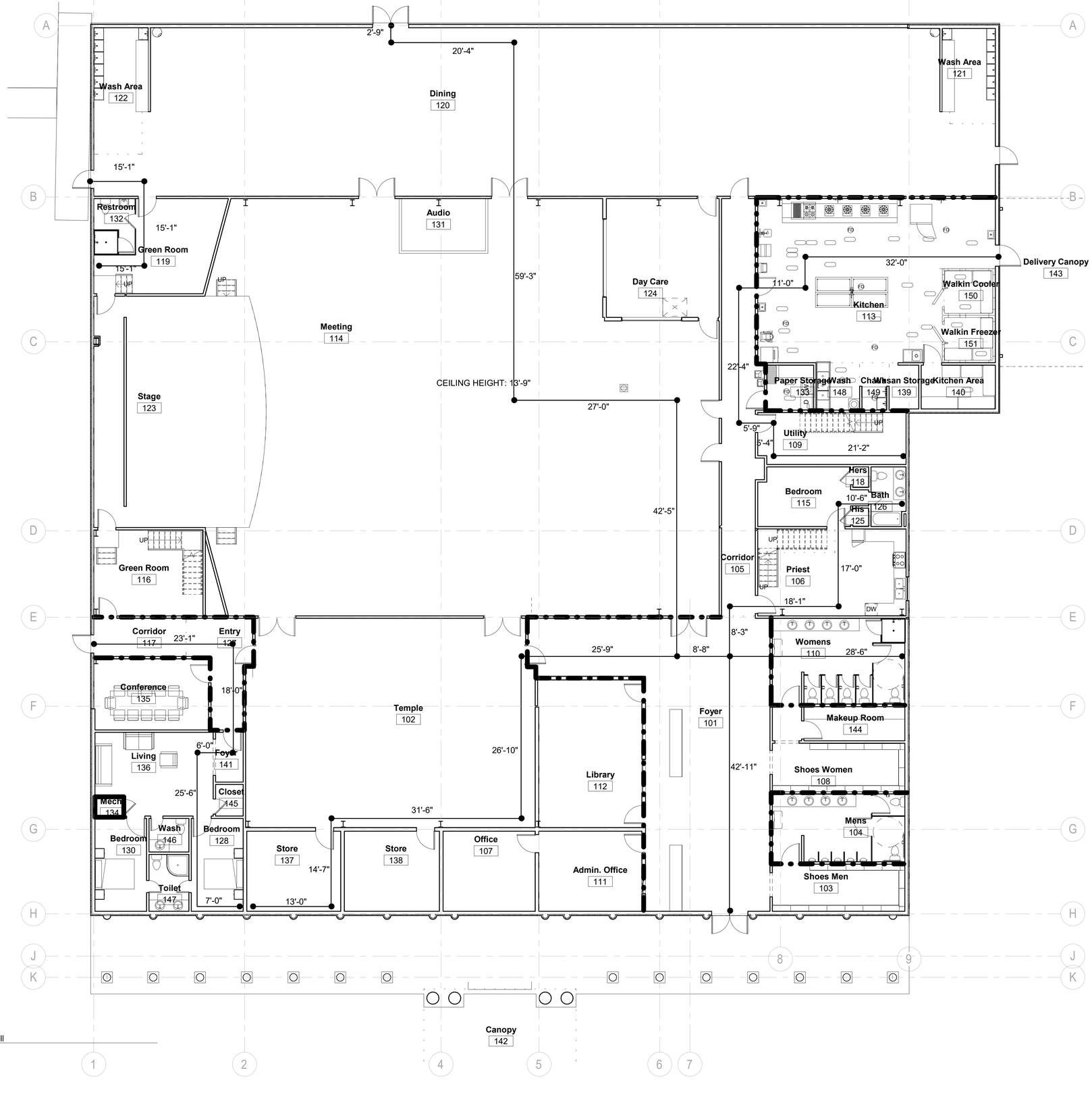
TOTAL ADDITIONAL OCCUPANT LOAD ALL FLOORS: 98

FIRE WALL LEGEND

INDICATES ONE HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

INDICATES TWO HOUR FIRE RATED WALL CONSTRUCTION AS PER UL STANDARDS

NOTE:
ALL FIRE-RATED WALLS TO EXTEND TO STRUCTURE ABOVE AS PER FIRECODE.
ALL OPENINGS AND PENETRATIONS IN FIRE RATED WALLS NEED TO MEET CODE REQUIREMENTS
ALL DEMISING WALLS BETWEEN GUEST ROOMS TO BE 1 HOUR FIRE RATED.
ALL CORRIDOR WALLS TO BE 1 HOUR FIRE RATED
ALL VERTICAL SHAFTS BETWEEN FLOORS TO BE 2 HOUR FIRE RATED.
ALL MECHANICAL ROOMS TO BE 2 HOUR FIRE RATED.



1 Level 1 New Firewall
1/8" = 1'-0"

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2015 MISHRA ARCHITECTURE PLLC

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KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Fire rating Plan

Phase
Construction Documents

Project No.	12-072
Prepared by	Author
Checked by	Checker
Date	Apr. 03, 2017

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A801

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Renovation of the Swami Narayan Temple

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GENERAL CIVIL CONSTRUCTION NOTES:

1. IT IS NOT THE INTENT OF THESE CONSTRUCTION NOTES TO COVER ALL DETAILS AND/OR THE SPECIFICATION REQUIREMENTS FOR THE PROJECT.
2. THE CONTRACTOR SHALL PROVIDE REASONABLE ACCESS TO RESIDENTIAL, COMMERCIAL AND PUBLIC PROPERTIES IN THE PROJECT AREA.
3. IT IS INTENDED THAT THE PROJECT SITE IS ACCESSIBLE AT ALL TIMES BY THE PUBLIC. CONTRACTOR SHALL COORDINATE ALL CHANGES TO THE EXISTING TRAFFIC PATTERNS WITH THE OWNER PRIOR TO IMPLEMENTING CHANGE.
4. CONTRACTOR SHALL INSTALL TEMPORARY PROTECTIVE FENCING AROUND THE PERIMETER OF ALL WORK AREAS PRIOR TO PERFORMING SUCH WORK. SAID FENCING SHALL ALLOW TRAFFIC FLOW TO BE MAINTAINED THROUGHOUT THE SITE. FENCED AREA IS REQUIRED TO MOVE AS NEEDED WITH THE SEQUENCING OF WORK. FENCED AREA SHALL BE POSTED WITH REGULARITY AND IN PLAIN VIEW WITH PERMANENT SIGNS NOTIFYING THAT AREA IS A PRIVATE WORK ZONE, KEEP OUT. CONTRACTOR SHALL SUBMIT A DETAILED DRAWING SHOWING THE PROPOSED CONSTRUCTION FENCE LOCATIONS AND SEQUENCING FOR OWNER APPROVAL PRIOR TO COMMENCING WORK.
5. THIS IS A LUMP SUM PROJECT. ALL REFERENCES TO SPECIFIC PAY ITEMS ON THESE DRAWINGS OR IN THE PROJECT SPECIFICATIONS SHALL BE IGNORED AND ITEMS CONSIDERED PART OF THE LUMP SUM BID.
6. ALL LENGTHS, AREAS, OR OTHER UNITS OF MEASUREMENT SHOWN ON THESE PLANS SHALL BE CONSIDERED APPROXIMATE BY THE CONTRACTOR. CONTRACTOR SHALL SATISFY HIMSELF AS TO THE AMOUNT OF WORK/MATERIALS REQUIRED OF THESE PLANS PRIOR TO BIDDING. ALL WORK REQUIRED FOR COMPLETE INSTALLATION OF ALL ITEMS SHOWN IN THESE PLANS SHALL BE CONSIDERED AN ABSORBED ITEM.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTAL ITEMS NEEDED TO PROVIDE ADEQUATE CONSTRUCTION SIGNING, BARRICADES, TRAFFIC CONTROL DEVICES AND OTHER RELATED ITEMS FOR THE PROJECT AREA, DURING THE CONSTRUCTION PERIOD. MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS. ALL TEMPORARY CONSTRUCTION SIGNAGE SHALL BE REMOVED BY THE CONTRACTOR.
8. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE BASED OFF OF INFORMATION PROVIDED BY THE UTILITY OWNER'S. PRIOR TO INSTALLATION OF ANY PORTION OF THE WATER, SEWER OR STORM DRAIN INFRASTRUCTURE SHOWN IN THESE PLANS THE CONTRACTOR IS TO VERIFY THE LOCATIONS (HORIZONTAL AND VERTICAL) OF ALL EXISTING UTILITIES & UTILITY INFRASTRUCTURE IN THE PROJECT AREA PRIOR TO CONSTRUCTION. SHOULD THERE BE ANY CONFLICTS OR DISCREPANCIES THE CONTRACTOR IS TO NOTIFY ENGINEER IN WRITING.
9. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE UTILITY OWNER BY THE CONTRACTOR. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND.
10. THE CONTRACTOR WILL NOT BE RESPONSIBLE FOR DEMOLISHING OR REMOVING ANY EXISTING ABOVE OR BELOW GROUND TELEPHONE, POWER, OR GAS LINES BUT SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL LOCAL UTILITY COMPANIES.
11. THE CONTRACTOR SHALL VERIFY ALL SHOWN DIMENSIONS AND ELEVATIONS (EXISTING AND PROPOSED) IN THE FIELD AND SHALL SATISFY HIMSELF AS TO THE ACCURACY BETWEEN WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
12. THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY MISSISSIPPI ONE CALL @ 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE ALL EXISTING UTILITIES ON SITE. ONE CALL TICKET # SHALL BE LOGGED AND BE ABLE TO BE PROVIDED TO OWNER.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AT A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK IN THE PROJECT AREA. LIKEWISE, THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING HIS WORK AND THAT OF THE INVOLVED UTILITIES IN THE PROJECT AREA.
14. ALL TESTING REQUIRED BY THE PROJECT SPECIFICATIONS OR UTILITY ORDINANCES SHALL BE DONE BY AN APPROVED TESTING LABORATORY AT THE EXPENSE OF THE CONTRACTOR.
15. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO MATCH PRE-CONSTRUCTION CONDITION OR BETTER AFTER COMPLETION OF THE PROJECT.
16. THE CONTRACTOR IS TO PROVIDE THE ENGINEER A CERTIFICATION THAT THE PROJECT WAS COMPLETED ACCORDING TO THE PROJECT PLANS AND SPECIFICATIONS.
17. ALL PUBLIC ROADS SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
18. PUBLIC ACCESSIBLE ROUTE THROUGH THE SITE SHALL BE KEPT CLEAN OF MUD AND DEBRIS AT ALL TIMES.
19. THE CONTRACTOR SHALL CAREFULLY REMOVE, STORE AND REINSTALL ALL CITY/COUNTY/STATE OWNED SIGNS WHOSE REMOVAL IS REQUIRED BY HIS CONSTRUCTION WORK IN THE PROJECT AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR THE APPROPRIATE AGENCY TO INSPECT ALL SIGNS SCHEDULED FOR REMOVAL PRIOR TO THEIR REMOVAL. ONCE SAID SIGNS HAVE BEEN REMOVED, IT WILL BE ASSUMED THAT THEY WERE IN GOOD CONDITION AT THE TIME OF REMOVAL. ANY SIGNS DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE APPROPRIATE AGENCY.
18. ELEVATIONS ARE BASED ON M.S.L. DATUM.
19. THE CONTRACTOR SHALL PROCURE ALL REQUIRED PERMITS AND LICENSES; PAY ALL FEES, CHARGES AND TAXES (INCLUDING SALES AND USE TAXES); GIVE ALL REQUIRED NOTICES; MAINTAIN AN ORDERLY AND SAFE FLOW OF TRAFFIC; MAINTAIN PROPER STORMWATER DRAINAGE; LOCATE AND AVOID DISRUPTING ALL EXISTING UTILITIES; TRANSPORT ALL EQUIPMENT AND MATERIALS AS REQUIRED BY ANY AGENCY HAVING JURISDICTION OVER ANY ROAD USE THEREOF; TRANSPORT, HANDLE AND INSTALL ALL MATERIALS IN ACCORDANCE WITH THEIR RESPECTIVE MANUFACTURER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS; PROPERLY BACKFILL ALL TRENCHES AND EXCAVATIONS; MAINTAIN A CLEAN AND ORDERLY WORK SITE; PROMPTLY REMOVE ALL EQUIPMENT, DEBRIS AND EXCESS SOILS AND/OR MATERIALS ON COMPLETION OF THE WORK; AND RESTORE TO SUBSTANTIALLY THE SAME OR BETTER CONDITIONS ALL DISTURBED PAVEMENTS AND GROUND SURFACES.
20. NO ACTIVITY REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK IS TO BE PERFORMED WHEN SOIL CONDITIONS ARE NOT CONDUCIVE FOR SUCH ACTIVITY.
21. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL CONDUCT ITS OPERATIONS AND ACTIVITIES IN SUCH A MANNER AS TO MINIMIZE THE EROSION OF SOILS AND THE DEPOSITION OF SEDIMENTS INTO EXISTING DRAINAGE COURSES DOWNSTREAM OF PROJECT WORK SITE OR ONTO ADJACENT PROPERTIES.
22. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL EXISTING STRUCTURES NECESSARY FOR COMPLETION OF THE WORK DESCRIBED IN THESE PLANS UNLESS OTHERWISE NOTED.
23. THESE CONSTRUCTION PLANS WERE PREPARED TO THE BEST OF MY KNOWLEDGE, TO COMPLY WITH THE REQUIREMENTS OF THE CITY OF JACKSON DEVELOPMENT REGULATIONS.
24. CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION STAKING.

EROSION CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. CONTRACTOR SHALL FAMILIARIZE HIMSELF AND ABIDE BY THE REQUIREMENTS OF THE SMALL CONSTRUCTION NOTICE OF INTENT (S.C.N.O.I.) AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND WATER POLLUTION THROUGH THE CONSTRUCTION PERIOD. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS BEGIN. CLEARING AND GRUBBING SHALL BE HELD TO THE MINIMUM WIDTH NECESSARY TO ACCOMMODATE ROADWAY SLOPES. EMBANKMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION. BALED STRAW EROSION CHECKS AND SILT FENCING SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT LADEN RUNOFF MAY ENTER A STREAM OR ADJACENT PROPERTY.
4. ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT FROM ENTERING STREAMS. NO EXCAVATED MATERIAL SHALL BE DISCHARGED INTO DITCHES. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION APPROVED BY THE ENGINEER.
5. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUALLY MAINTAINED. THE CONTRACTOR SHALL KEEP STREETS AND SIDEWALKS ADJACENT TO THE LIMITS OF CONSTRUCTION FREE OF MUD AND DEBRIS.
6. CONTRACTOR SHALL COMPLY WITH THE EROSION CONTROL REQUIREMENTS OF THE CITY OF JACKSON AND THE REQUIREMENTS OF THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY.
7. CONTRACTOR TO UTILIZE BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL.

SITE GRADING AND PAVING NOTES:

1. TECHNICAL SPECIFICATION FOR MATERIALS AND CONSTRUCTION METHODS FOR PAVING AND EARTHWORK FOR THIS PROJECT SHALL CONFORM TO THE LATEST EDITION OF MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THESE PLANS AND SPECIFICATIONS AND THE GEOTECHNICAL REPORT (IF AVAILABLE). SHOULD THERE BE ANY CONFLICTS BETWEEN THE NOTES STATED HEREIN, THE PROJECT SPECIFICATIONS, THE GEOTECHNICAL REPORT AND THE REFERENCED MDOT STANDARDS, THE GEOTECHNICAL REPORT SHALL GOVERN, FOLLOWED BY THE MDOT STANDARDS. ANY CONFLICTS NOT RESOLVED BY EITHER OF THESE DOCUMENTS SHALL BE DECIDED BY ENGINEER TO REFLECT HIS INTENTION.
2. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING, AND THE STOCKPILING OF TOPSOIL, REMOVING UNSUITABLE MATERIALS, THE CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER.
3. AS AN INITIAL STEP OF SITE PREPARATION, TREES AND VEGETATION WITHIN THE CONSTRUCTION LIMITS SHOULD BE REMOVED. TREE AND VEGETATION REMOVAL (CLEARING AND GRUBBING) WILL INCLUDE STUMPS AND ROOT SYSTEMS. HOLES CREATED BY TREE AND STUMP REMOVAL SHOULD BE BACKFILLED WITH COMPACTED SELECT FILL SOILS.
4. AFTER CLEARING AND GRUBBING, STRIPPING (12" MINIMUM DEPTH) SHOULD BE PERFORMED TO A SUFFICIENT DEPTH WITHIN CONSTRUCTION AREAS TO REMOVE ORGANIC-LADEN SURFICIAL SOILS, VEGETATION, DEBRIS, BRUSH AND ROOTS (TOPSOIL). TOPSOIL EXCAVATED SHALL BE STOCKPILED ON THE SITE IN AREAS DESIGNATED BY THE ENGINEER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING. THIS IS NOT A PAY ITEM, BUT SHALL BE AN ABSORBED COST.
5. ONCE CLEARING, GRUBBING, AND STRIPPING HAS BEEN COMPLETED THE CONTRACTOR SHALL EXCAVATE AREAS THAT ARE TO BE CUT TO REACH PLAN GRADE. CONTRACTOR SHALL THEN NOTIFY THE ENGINEER FOR A FIELD INSPECTION OF THE SUBGRADE PRIOR TO PLACEMENT OF ANY SELECT FILL. CONTRACTOR SHALL HAVE EQUIPMENT AVAILABLE TO PERFORM A PROOF ROLL OR FOR FURTHER EXCAVATION SHOULD THE ENGINEER DEEM NECESSARY. FINE-GRAINED SOILS EXPOSED AFTER STRIPPING, EXCAVATION AND UNDERCUTTING ARE SUSCEPTIBLE TO PUMPING AND/OR BECOMING UNSTABLE AND RUTTING EXCESSIVELY UNDER WET CONDITIONS. THE CONSTRUCTION TECHNIQUES, TYPES OF EQUIPMENT UTILIZED AND SITE DRAINAGE PROVIDED DURING CONSTRUCTION WILL HAVE A GREAT EFFECT ON THE PERFORMANCE OF THE FINE-GRAINED SOILS THROUGHOUT THE PROJECT. THE ROUTING OF RUBBER-TIRED EQUIPMENT SHOULD BE CONTROLLED TO MINIMIZE TRAFFIC OVER THE SITE. ALL TRAFFIC SHOULD BE DISCOURAGED DURING PERIODS OF INCLEMENT WEATHER.
6. UNDERCUTTING AND BACKFILLING WILL BE REQUIRED TO REMOVE EXPANSIVE CLAYS (CH) IF PRESENT AND CREATE THE RECOMMENDED SOIL BUFFER AT BUILDING STRUCTURE LOCATIONS AND AT ALL PAVEMENT AND SIDEWALK LOCATIONS.
7. IMPORT SELECT FILL MATERIAL SHALL CONSIST OF SELECT, NON-ORGANIC AND DEBRIS-FREE SILTY CLAYS (CL) HAVING A PLASTICITY INDEX (PI) WITHIN THE RANGE OF 8 TO 22 AND A LIQUID LIMIT LESS THAN 40 PERCENT. TO BE CLASSIFIED AS SILTY CLAYS (CL) THE FILL MATERIALS MUST HAVE MORE THAN 70% FINES PASSING THE NUMBER 200 SIEVE.
8. SOIL BUFFER FOR THE BUILDINGS TO BE A MINIMUM OF 7' THICK AND EXTEND LATERALLY NOT LESS THAN 5' BEYOND THE STRUCTURE LIMITS.
9. SOIL BUFFER FOR PAVEMENT AND SIDEWALK IS TO BE 3' THICK AND EXTEND LATERALLY NOT LESS THAN 3' BEYOND PAVEMENT, SIDEWALK EDGES.
10. FILL SOILS SHOULD BE COMPACTED FROM LIFTS NOT EXCEEDING 8" IN LOOSE THICKNESS TO NOT LESS THAN 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D-698-91) AT MOISTURE CONTENTS WITHIN 2 PERCENTAGE POINTS OF THE OPTIMUM WATER CONTENT. STABILITY MUST BE EVIDENT DURING COMPACTION OF EACH LIFT BEFORE ANY SUBSEQUENT LIFTS OF FILL MATERIAL ARE ADDED.
11. THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE THE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
12. THE CONTRACTOR SHALL TAKE SPECIAL CARE IN GRADING NEAR TREES, BUSHES AND SHRUBS WHICH ARE NOT TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS.
13. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
14. PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED ITEMS (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS SHOWN.
15. STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND IF DAMAGED, SHALL BE REPLACED PROMPTLY.

WATER/SEWER NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS AND PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIALS AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF WATER AND SEWER UTILITIES.
3. THE CONTRACTOR SHALL MAKE ALL TIES TO EXISTING UTILITIES AND COORDINATE THEM WITH THE CITY OF JACKSON PUBLIC WORKS DEPARTMENT.
4. ALL MANHOLES, VALVE BOXES, AND FIRE HYDRANTS SHALL BE ADJUSTED TO PROPER LINE AND FINISHED GRADE BY THE CONTRACTOR AFTER PLACING OF PAVEMENT AND BEFORE FINAL ACCEPTANCE.
5. TRENCHING AND EMBEDMENT WORK SHALL CONFORM TO ALL REQUIREMENTS AND SHALL FOLLOW THE TYPICAL CROSS-SECTION DETAIL FOR TRENCHING. UNLESS SPECIFIED OTHERWISE, BACKFILL MATERIAL SHALL BE COMPACTED TO 95% DENSITY OF STANDARD PROCTOR IN ACCORDANCE WITH ASTM D-698 UNLESS UNDER PROPOSED PAVING AREA IN WHICH CASE IT SHALL BE COMPACTED TO 98%. ALL BACKFILL MATERIAL SHALL BE COMPACTED IN 6" LAYERS.
6. THE END OF WATER AND SEWER LINES SHALL BE TIGHTLY CAPPED OR PLUGGED AND MARKED UNTIL SUCH TIME AS SERVICE CONNECTIONS ARE MADE OR LINES ARE EXTENDED.
7. ALL WATER LINES AND SANITARY SEWER LINES SHALL BE INSTALLED WITH A MINIMUM OF THREE FEET (3') OF COVER OVER THE TOP OF THE PIPE AT FINISHED GRADE OR AS SHOWN OTHERWISE. WHERE INSTALLED IN A ROADWAY SECTION THE MINIMUM COVER OVER THE TOP OF THE PIPE SHALL BE FOUR FEET (4'). BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 96% STANDARD PROCTOR DENSITY.
8. TEN FEET (10') OF HORIZONTAL CLEARANCE IS REQUIRED BETWEEN ALL WATER AND SEWER LINES. AT LOCATIONS WHERE THE WATER AND SEWER LINES MUST CROSS EACH OTHER THERE SHALL BE A MINIMUM CLEARANCE OF 18" WITH THE WATER PASSING OVER THE SEWER. IF THESE SEPARATIONS CANNOT BE MET, THE SEWER LINE SHALL BE CONSTRUCTED TO THE SAME SPECIFICATIONS AS THE WATER LINE AND BE WATER TIGHT UNTIL SUCH A POINT WHERE MINIMUM SEPARATION CAN BE MET. WHERE GRAVITY FLOW SEWERS CROSS ABOVE WATER LINES, THE SEWER PIPE FOR A DISTANCE OF TEN (10') FEET, EACH SIDE OF THE CROSSING, EITHER SHALL BE DUCTILE IRON PRESSURE PIPE WITHOUT ANY JOINT CLOSER THAN THREE (3') FEET TO THE CROSSING, OR SHALL BE FULLY ENCASED IN CONCRETE.
9. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TESTING OF THE WATER AND SEWER SYSTEMS IN ACCORDANCE WITH THE MSDH REGULATIONS AND SHALL NOTIFY THE ENGINEER AND THE CITY OF JACKSON AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY TESTS. ADDITIONAL TESTS ON WATER AND SEWER LINES WILL BE AS REQUIRED BY THE CITY OF JACKSON AT NO ADDITIONAL COST TO THE OWNER. A COPY OF ALL TEST RESULTS SHALL BE FAXED TO BENCHMARK ENGINEERING & SURVEYING, LLC @ 601-591-0711.
10. THE LENGTHS OF THE SANITARY SEWER LINES ARE MEASURED FROM CENTER OF MANHOLE/CLEANOUT TO CENTER OF MANHOLE/CLEANOUT.
11. FITTINGS FOR ALL APPLICATIONS OF WATER AND SEWER LINES SHALL BE AN ABSORBED COST.

STORM DRAIN NOTES:

1. TECHNICAL SPECIFICATIONS FOR ALL MATERIALS AND CONSTRUCTION METHODS FOR THE STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR THE MANUFACTURER'S RECOMMENDATION.
2. JOINTS SHALL BE CONSTRUCTED AND JOINTED TOGETHER IN SUCH A MANNER THAT NO SPILL THROUGH OF BACKFILL WILL OCCUR.
3. ANY ADDITIONAL EXCAVATION REQUIRED FOR INSTALLATION OF BEDDING MATERIAL FOR STORM DRAIN PIPE SHALL BE AN ABSORBED COST.
4. AT THE EXPENSE OF THE CONTRACTOR, THE CONTRACTOR SHALL MAINTAIN EXISTING DRAINAGE PATTERNS AND CONSTRUCT TEMPORARY STRUCTURES, EMBANKMENTS AND CULVERTS AS REQUIRED TO MAINTAIN THE EXISTING DRAINAGE SYSTEM AND CAPACITY IN THE WORK AREA. ANY AND ALL ITEMS CONSTRUCTED DURING THE PROGRESS OF WORK THAT ARE NOT NECESSARY FOR THE FINAL DRAINAGE SYSTEM ARE TO BE REMOVED AND THE AREA RESTORED TO IS ORIGINAL CONDITION.
5. PIPES UNDER PAVED AREAS SHALL BE R.C.P. OR HP PIPE AS MANUFACTURED BY ADS. PIPE IN CITY RIGHT-OF-WAY MUST BE R.C.P.

NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ITS OPERATORS, SUB CONTRACTORS, & EMPLOYEES ARE AWARE OF THE POTENTIAL UTILITY CONFLICTS WITHIN THE WORK AREA WHERE IMPROVEMENTS ARE TO BE TAKE PLACE AND/OR UTILITY LINES ARE TO BE INSTALLED.

EXISTING UNDERGROUND UTILITIES REPRESENTED ON THESE PLANS WERE FIELD LOCATED PER THE MARKINGS OF A UTILITY LOCATING COMPANY AND THEIR REPRESENTATIVES, NO VERTICAL INFORMATION WAS PROVIDED. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND IT SHALL BE UNDERSTOOD THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OF SUFFICIENCY REGARDING THE UNDERGROUND UTILITIES (SHOWN OR NOT SHOWN). THE ENGINEER/SURVEYOR/OWNER PROVIDES NO CERTAINTY OF THE ACCURACY OF THE INFORMATION SHOWN NOR CERTIFICATION THAT ADDITIONAL UTILITY LINES ARE NOT PRESENT IN THE CONSTRUCTION LIMITS WHILE NOT SHOWN ON THE DRAWINGS.

BENCHMARK
ENGINEERING & SURVEYING, LLC
101 Highpointe Court, Suite B, Brandon, Mississippi 39042
Office: 601-591-1077 Fax: 601-591-0711
E-mail: gbonds@benchmarkms.net

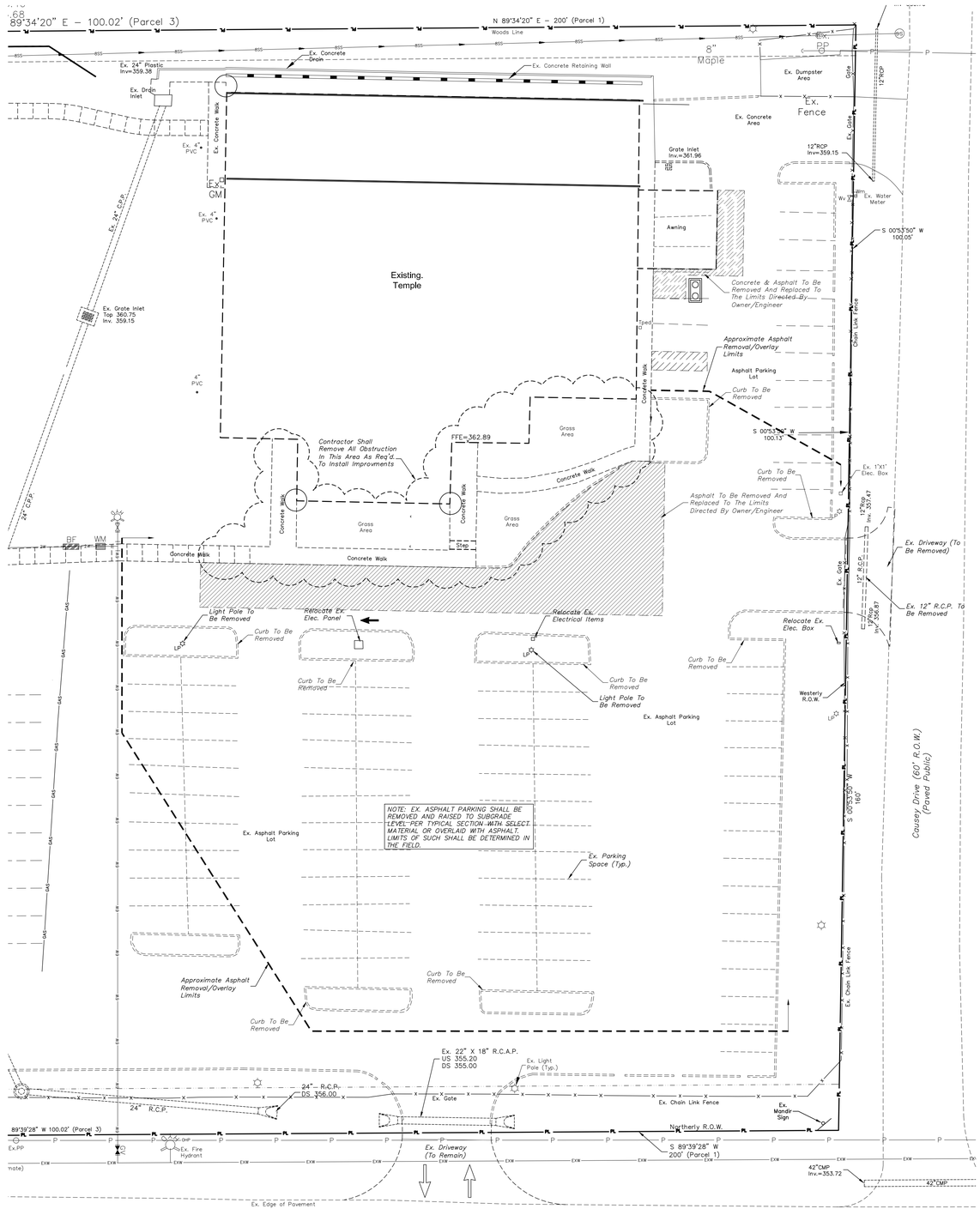
DATE: 03/20/17
DRAWN: BCB
CHECKED: GAB
SCALE: 1"=20'
REF C/L:
EG SURFACE:
FG SURFACE:
REVISIONS:

PROJECT LOCATION:
2390 GREENWAY DRIVE
JACKSON, MS 39204
CLIENT:
BAPS, INC.

RENOVATION OF:
BAPS SWAMINARAYAN TEMPLE
SHEET CONTENTS:
GENERAL CONSTRUCTION NOTES

SHEET NUMBER
C101

PROJECT NUMBER
B-5658



NOTE:

1. IT IS INTENDED THAT THE CONTRACTOR SHALL COMPLETELY DEMOLISH/REMOVE AND DISPOSE OF ALL EXISTING FEATURES LOCATED WITHIN THE CONSTRUCTION LIMITS.
2. SHOULD THERE BE AN ITEM THAT IS IN QUESTION ON WHETHER OR NOT ITS REMOVAL IS PART OF THIS PROJECT, CONTRACTOR SHALL ASK ARCHITECT/ENGINEER/OWNER FOR CLARITY PRIOR TO REMOVAL.
3. CONTRACTOR SHALL COORDINATE DAILY/WEEKLY DEMOLITION PLAN WITH OWNER AND OBTAIN OWNER'S WRITTEN PERMISSION PRIOR TO THE DEMOLITION OF ANY ITEMS TO ENSURE THAT DAY TO DAY SCHOOL/CAMPUS FUNCTIONS ARE NOT EFFECTED. THIS SHALL INCLUDE BUT IS NOT LIMITED TO PAVING, SIDEWALK, FENCING, AND UTILITIES SUCH AS ELECTRICAL, WATER, SEWER, COMMUNICATIONS, ETC. CONTRACTOR SHALL MAKE IT VERY CLEAR TO THE OWNER THE TIMING AND LIMITS OF SUCH REMOVAL.
4. ALL SALVAGED ITEMS (STRUCTURES, PARTS & APPURTENANCES) SHALL BE DELIVERED BY THE CONTRACTOR TO A REASONABLE LOCATION DETERMINED BY THE OWNER IN A MANNER ACCEPTABLE TO THE OWNER. IF SALVAGED ITEMS ARE TAKEN APART BY CONTRACTOR, ALL PARTS SHALL BE.
5. FOR ALL SALVAGED ITEMS THAT ARE TO BE RECONSTRUCTED AS PART OF THIS CONTRACT, THE CONTRACTOR SHALL TAKE NUMEROUS PICTURES OF SUCH PRIOR TO REMOVAL FOR USE DURING RECONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE SUCH ITEMS IN A FASHION THAT ALLOWS FOR FULL RECONSTRUCTION. ANY ITEMS/PARTS THAT ARE DAMAGED PRIOR TO CONTRACTOR'S REMOVAL SHALL BE NOTED AND PICTURE DOCUMENTATION PROVIDED TO OWNER PRIOR TO REMOVAL OR DAMAGE SHALL BE CONSIDERED CAUSED BY THE CONTRACTOR AND REPLACEMENT PARTS TO THE SATISFACTION OF THE OWNER SHALL BE THE CONTRACTOR'S RESPONSIBILITY AT NO ADDITIONAL COST TO THE OWNER.
6. THE SAFETY OF THE GENERAL PUBLIC WITHIN THE VICINITY OF THE CONSTRUCTION ARE IS EXTREMELY IMPORTANT. THE CONTRACTOR SHALL POST AND MAINTAIN, TO THE OWNER'S SATISFACTION, TEMPORARY FENCING, SIGNAGE, ETC. THAT DIRECTS THE GENERAL PUBLIC AROUND THE CONSTRUCTION AREA.
7. ALL VOIDS CREATED BY REMOVAL OF STRUCTURES SHALL BE BACKFILLED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
8. ALL EXISTING SUB-SURFACE STRUCTURES SUCH AS MANHOLES, INLETS & PIPES NOTED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY AND DISPOSED OF APPROPRIATELY.
9. CONTRACTOR SHALL COORDINATE REMOVAL OF ALL UTILITIES INCLUDING POWER, GAS, COMMUNICATIONS, ETC. SHALL BE COORDINATED WITH UTILITY PROVIDER.
10. ALL EXISTING UTILITY INFRASTRUCTURE SHALL BE VERIFIED BY THE UTILITY OWNER AND SHALL BE PROTECTED OR RELOCATED IF NECESSARY.
11. IT IS THE OWNER'S RESPONSIBILITY TO OBTAIN PERMISSION TO PERFORM WORK ON ADJACENT PROPERTY FROM THE PROPERTY OWNERS SHOULD IT BE NECESSARY TO COMPLETELY INSTALL IMPROVEMENTS.
12. ALL ITEMS REMOVED UNLESS NOTED OTHERWISE SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
13. STORM DRAIN PIPE REMOVAL INCLUDES FLARED END SECTIONS UNLESS OTHERWISE NOTED.
14. QUANTITIES SHOWN ON REMOVAL ITEMS SHALL BE CONSIDERED APPROXIMATE.
15. CONTRACTOR SHALL BE WARY OF EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF ITEMS THAT ARE TO BE REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO DAMAGED UTILITY LINES AND INFRASTRUCTURE CAUSED BY WORK.
16. CONTRACTOR SHALL REPAIR ALL AREAS WHERE ITEMS ARE REMOVED.
17. CONTRACTOR SHALL TAKE SPECIAL CARE IN REMOVING ANY ITEMS THAT ARE TO BE SALVAGED.
18. ALL UTILITY APPURTENANCES WITHIN THE PROJECT LIMITS THAT ARE NOT REMOVED SHALL BE ADJUSTED TO FINISHED GRADE.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

BENCHMARK
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PROJECT LOCATION:
2390 GREENWAY DRIVE
JACKSON, MS 39204

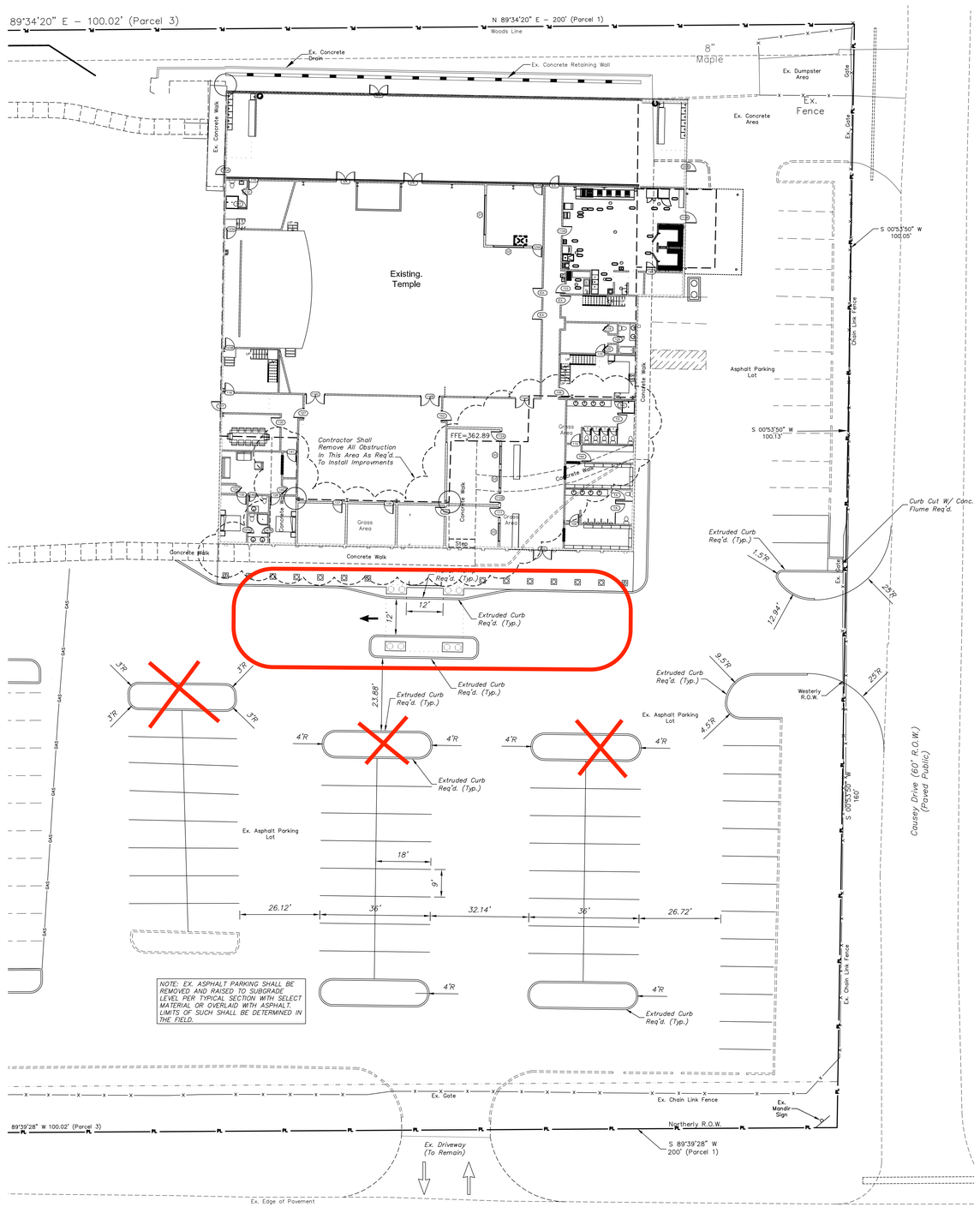
CLIENT:
BAPS, INC.

RENOVATION OF:
BAPS SWAMINARAYAN TEMPLE

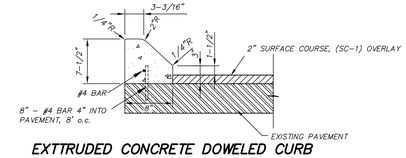
SHEET CONTENTS:
DEMOLITION PLAN

SHEET NUMBER
C200

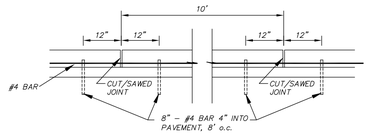
PROJECT NUMBER
B-5658



VICINITY MAP



EXTTRUDED CONCRETE DOWELED CURB

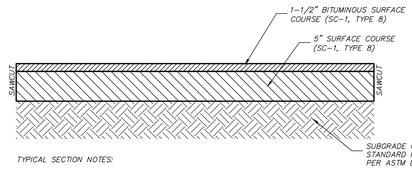


SPACING OF ANCHOR BARS

NOTES:

1. CONCRETE SHALL BE 3000 PSI MIN., 3-1/2" SLUMP MAX
2. 3/8" EXPANSION JOINTS SHALL BE PLACED ON BOTH SIDES OF CATCH BASINS, AT TOPS OF DRIVEWAYS, ALL CHANGES IN DIRECTION, OR AS DIRECTED BY INSPECTOR. 1-1/2" CONTRACTION JOINTS TO BE PLACED AT 10' INTERVALS.
3. THE PAVEMENT SHALL BE DRY AND CLEANED OF LOOSE AND DELETERIOUS MATERIAL PRIOR TO PLACEMENT.

STANDARD EXTRUDED CURB DETAILS



TYPICAL SECTION NOTES:

1. ANY OVERLAY SECTIONS SHALL BE A MINIMUM OF 1-1/2" ONCE COMPACTED. MILLING REQUIRED FOR SMOOTH TIE IN.
2. ANY ASPHALT REMOVED SHALL BE SAWCUT ALONG EDGE OF REMOVAL IN SMOOTH, STRAIGHT CUTS.

TYPICAL ASPHALT SECTION

GENERAL NOTES:

1. IT IS INTENDED THAT THE CONTRACTOR SHALL COMPLETELY DEMOLISH/REMOVE AND DISPOSE OF ALL EXISTING FEATURES LOCATED WITHIN THE CONSTRUCTION LIMITS.
2. REMOVAL OF ALL UTILITIES INCLUDING POWER, GAS, COMMUNICATIONS, ETC. SHALL BE COORDINATED WITH UTILITY PROVIDER.
3. ALL EXISTING UTILITY INFRASTRUCTURE SHALL BE VERIFIED BY THE UTILITY OWNER AND SHALL BE PROTECTED BY CONTRACTOR OR RELOCATED IF NECESSARY.
4. ALL ITEMS REMOVED, UNLESS NOTED OTHERWISE, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
5. CONTRACTOR SHALL BE WARY OF EXISTING UTILITIES LOCATED WITHIN THE VICINITY OF ITEMS THAT ARE TO BE REMOVED. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO DAMAGED UTILITY LINES AND INFRASTRUCTURE CAUSED BY WORK.
6. CONTRACTOR SHALL REPAIR ALL AREAS WHERE ITEMS ARE REMOVED.
7. ALL HARD SURFACES THAT ARE TO BE REMOVED SUCH AS CONCRETE OR ASPHALT SHALL BE SAWCUT IN SMOOTH, STRAIGHT LINE CUTS.
8. RADIAL DIMENSIONS ARE MEASURED FROM THE BACK OF CURB.
9. SEE ARCHITECTURAL PLANS FOR MORE DETAILS ON THE BUILDINGS AND OTHER STRUCTURES.
10. THIS PARCEL IS LOCATED IN FLOOD ZONE X ACCORDING TO FLOOD INSURANCE RATE MAP PANEL 28049C0292H, EFFECTIVE DATE: NOVEMBER 16, 2009.
11. CONTRACTOR SHALL REMOVE ALL ITEMS NECESSARY FOR COMPLETE INSTALLATION OF IMPROVEMENTS WHETHER NOTED ON DRAWINGS OR NOT.
12. IT IS THE OWNER'S RESPONSIBILITY TO OBTAIN PERMISSION TO PERFORM WORK ON ADJACENT PROPERTY FROM THE PROPERTY OWNERS SHOULD IT BE NECESSARY TO COMPLETELY INSTALL IMPROVEMENTS.
13. CONTRACTOR SHALL INSTALL IMPROVEMENTS TO ENSURE THE POSITIVE FLOW OF STORM WATER RUNOFF IS MAINTAINED.
14. CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL INSTALLATION AND MAINTENANCE THROUGHOUT THE PROJECT AND SHALL FILL OUT A SMALL CONSTRUCTION NOTICE OF INTENT (S.C.N.O.I.) AND COMPLY WITH ALL REQUIREMENTS OF SUCH, MDEQ AND THE CITY OF JACKSON.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

BENCHMARK
ENGINEERING & SURVEYING, LLC
101 Highpoint Court, Suite B, Brandon, Mississippi 39042
Office: 601-591-1077 Fax: 601-591-0711
E-mail: gbonds@benchmarkms.net

REVISIONS:

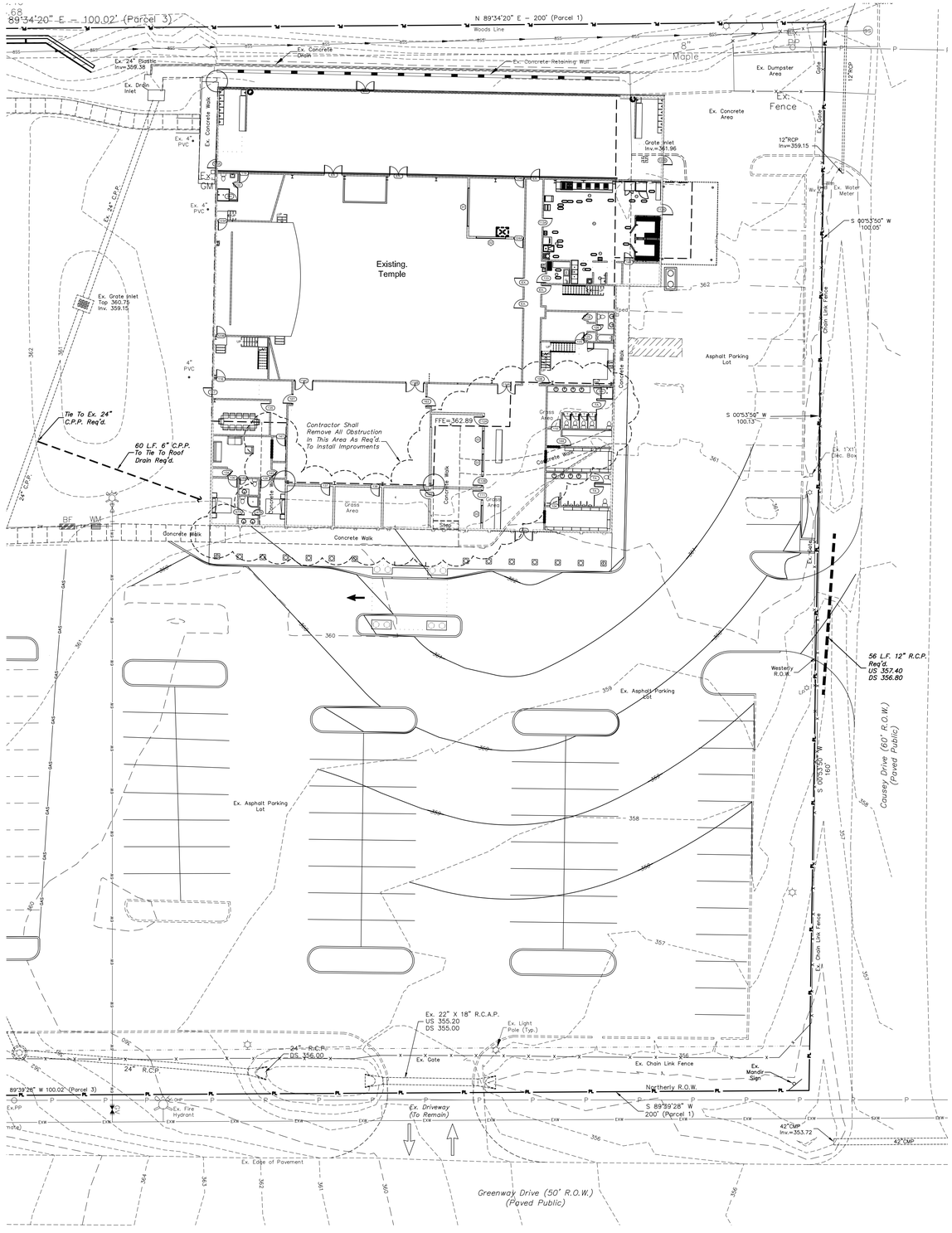
DATE: 03/20/17
DRAWN: BCB
CHECKED: GAB
SCALE: 1"=20'
REF C/L:
EG SURFACE:
FG SURFACE:

PROJECT LOCATION: 2390 GREENWAY DRIVE JACKSON, MS 39204
CLIENT: BAPS, INC.

RENOVATION OF: BAPS SWAMINARAYAN TEMPLE
SHEET CONTENT'S: SITE PLAN

SHEET NUMBER C201

PROJECT NUMBER B-5658



GRADING & DRAINAGE NOTES:

1. *SEE NOTES ON SHEET C101 FOR MORE INFORMATION.*
2. *ALL EXISTING UTILITIES SHALL BE CONSIDERED APPROXIMATE. CONTRACTOR TO CONTACT MISSISSIPPI ONE CALL AT 601-362-4374 FOR A LOCATE PRIOR TO BEGINNING CONSTRUCTION TO VERIFY LOCATIONS. CONTRACTOR SHALL POTHOLE EXISTING UTILITY LINES IN AREAS WHERE PROPOSED UTILITIES (WATER, SEWER, STORM DRAIN) CROSS AND NOTIFY ENGINEER IMMEDIATELY IF CONFLICT IS DISCOVERED.*
3. *SLOPES THAT ARE GREATER THAN 3:1 SHALL RECEIVE SOLID SOD UNLESS OTHERWISE NOTED.*
4. *ALL DISTURBED AREAS ARE TO BE REPAIRED TO AS GOOD AS THE ORIGINAL CONDITION OR BETTER. PICTURE DOCUMENTATION OF THESE AREAS SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO DISTURBING.*
5. *CONTRACTOR SHALL ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT FOR ALL ASPECTS OF SITE PREPARATION SHOULD ONE BE AVAILABLE.*
6. *INVERT ELEVATIONS SHOWN ON THE PLANS FOR THE STORM DRAIN STRUCTURES AND CULVERTS REPRESENT THE FLOW LINE. CONTRACTOR TO ACCOUNT FOR PIPE OR STRUCTURE THICKNESS WHEN INSTALLING.*
7. *STORM DRAIN PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD DETAIL DRAWINGS OR AS REQUIRED BY PIPE MANUFACTURER IS MORE STRINGENT REQUIREMENTS ARE REQUIRED FOR WARRANTY.*

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

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DATE: 03/20/17
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CHECKED: GAB
SCALE: 1"=20'
REF C/L:
EG SURFACE:
FG SURFACE:

PROJECT LOCATION:
2390 GREENWAY DRIVE
JACKSON, MS 39204

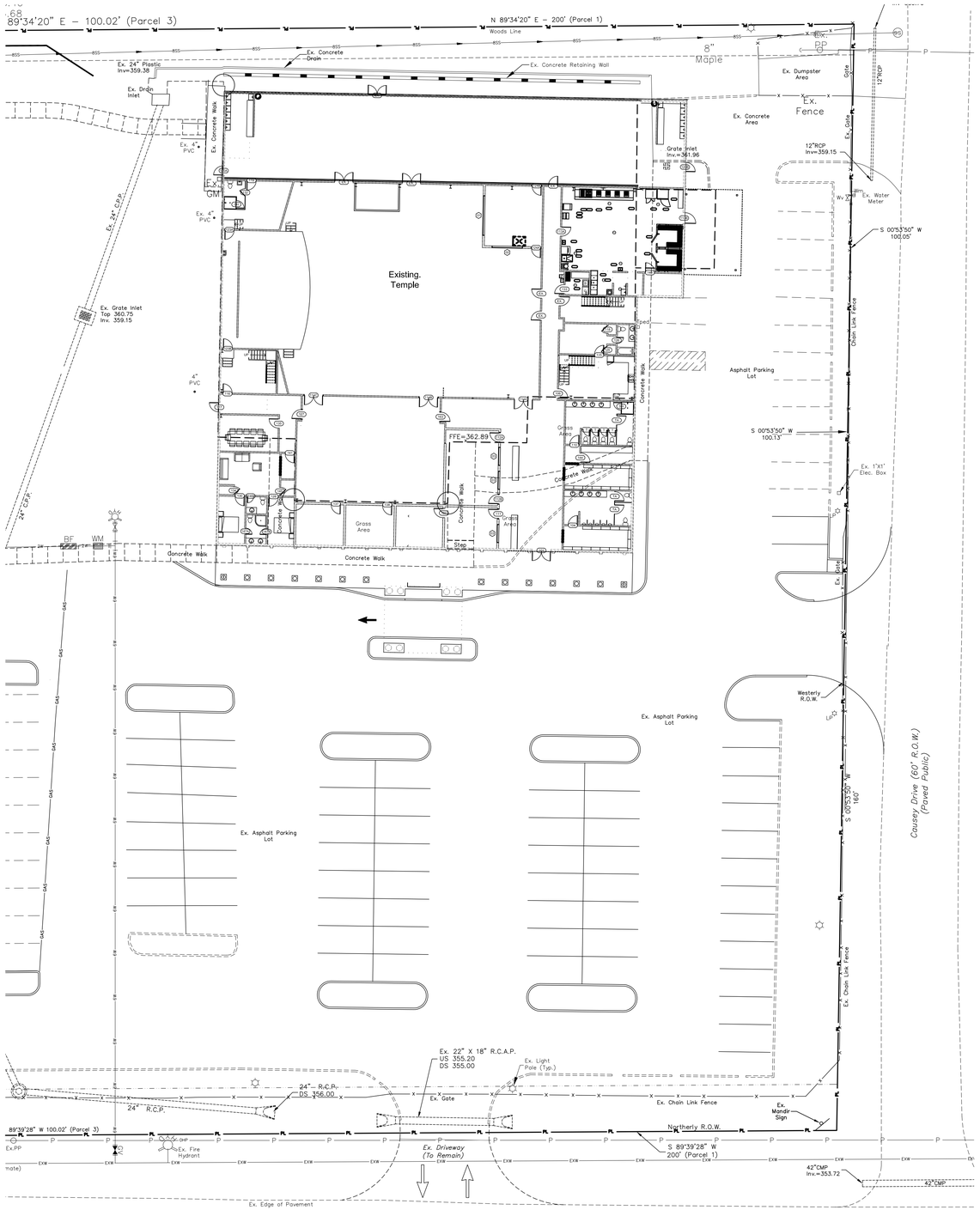
CLIENT:
BAPS, INC.

RENOVATION OF:
BAPS SWAMINARAYAN TEMPLE

SHEET CONTENTS:
GRADING & DRAINAGE PLAN

SHEET NUMBER
C301

PROJECT NUMBER
B-5658



NOTE: WATER AND SEWER FOR THE ADDITION ARE TYING TO EX. SITE UTILITIES AS SHOWN ON THE PLUMBING PLAN. THIS SHEET IS SHOWN FOR INFORMATION PURPOSES FOR WHERE EXISTING UTILITIES ARE LOCATED ON THE SITE.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

BENCHMARK
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DATE: 03/20/17
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EG SURFACE:
FG SURFACE:

PROJECT LOCATION:
2390 GREENWAY DRIVE
JACKSON, MS 39204

CLIENT:
BAPS, INC.

RENOVATION OF:
BAPS SWAMINARAYAN TEMPLE

SHEET CONTENTS:
UTILITY LAYOUT

SHEET NUMBER
C302

PROJECT NUMBER
B-5658

STRUCTURAL NOTES

BASIS OF DESIGN
IBC 2012
ASCE 7-10

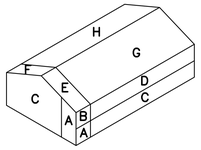
DESIGN LOADS

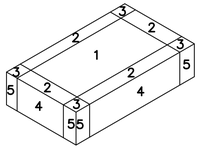
DL 1 LIVE LOADS
- a. FIRST FLOOR 100 psf
- b. STORAGE 125 psf
- c. MECHANICAL ROOMS EQUIPMENT WEIGHT NOT LESS THAN 125 psf

DL 2 ROOF 20 psf

DL 3 GROUND SNOW LOAD 10 psf
- a. SNOW EXPOSURE FACTOR Ce 0.9
- b. THERMAL FACTOR Ct 1.0
- c. SNOW IMPORTANCE FACTOR I 1.0
- d. FLAT ROOF SNOW LOAD 0.7*pg*Ce*Ct*I 6.3 psf

DL 4 WIND LOAD
- a. WIND SPEED 90 mph
- b. WIND SPEED 115 mph ULTIMATE
- c. WIND IMPORTANCE FACTOR 1.00
- d. RISK CATEGORY III
- e. WIND EXPOSURE B
- f. INTERNAL PRESSURE COEFFICIENT -ASD
  - ZONE A 16.8 psf
  - ZONE B -10.0 psf
  - ZONE C 11.0 psf
  - ZONE D -10.0 psf
  - ZONE E -17.7 psf
  - ZONE F -10.8 psf
  - ZONE G -12.3 psf
  - ZONE H -10.0 psf
  - OVERHANG ZONE Eoh -24.8 psf Goh -19.4 psf
  - PARAPET LOAD -19.0 psf
- g. COMPONENTS AND CLADDING - ASD
  - ZONE 1 10.0 psf -16.8 psf
  - ZONE 2 10.0 psf -28.1 psf
  - ZONE 3 10.0 psf -42.3 psf
  - ZONE 4 16.8 psf -18.2 psf
  - ZONE 5 16.8 psf -22.4 psf
  - ROOF OVERHANG ZONE 2 -24.1 psf
  - ZONE 3 -39.8 psf





- h. WIND BASE SHEAR
  Vxult= 26 kips Vyult =42 kips
  Vxasd=16 kips Vyasd =26 kips

DL 5 SEISMIC DESIGN DATA
- a. SEISMIC IMPORTANCE FACTOR 1.00
- b. MAPPED SPECTRAL RESPONSE ACCELERATION Ss=0.158 S1=0.87
- c. SITE CLASS D
- d. SPECTRAL RESPONSE COEFFICIENTS Sds=0.168 Sd1=0.140
- e. SEISMIC DESIGN CATEGORY C
- f. BASIC SEISMIC FORCE RESISTING SYSTEM ORDINARY STEEL MOMENT FRAME
- g. DESIGN BASE SHEAR 16 KIPS
- h. RESPONSE MODIFICATION FACTORS R 3.5
- i. SEISMIC RESPONSE COEFFICIENT Cd 3.0
- j. ANALYSIS PROCEDURE -- EQUIVALENT FORCE METHOD

DL 6 DESIGN DEAD LOADS
- a. 2nd FLOOR DEAD LOAD
  - METAL FRAMING = 54 psf
  - 5/8" DRYWALL CEILING = 2 psf
  - MECHANICAL DUCTS & PIPING = 4 psf
  - TOTAL DEAD LOAD = 60 psf
- b. ROOF DEAD LOAD
  - PE METAL BUILDING = 5 psf
  - SUSPENDED CEILING = 2 psf
  - MECHANICAL DUCTS & LIGHTING = 4 psf
  - 6" INSULATION AVERAGE = 2 psf
  - TOTAL DEAD LOAD = 13 psf

FOUNDATIONS

FD 1 SOIL BEARING PRESSURE..... 2,100 psf CONT FOOTINGS
2,400 psf COLUMN FOOTINGS

GEOTECHNICAL INVESTIGATION REPORT PREPARED BY:
GEOTECHNICAL ASSOCIATES NETWORK, LLC
110 BEECHTREE ROAD
VICKSBURG, MS 39183-7464
PHONE: 601-362-5421

FD 2 THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR RECOMMENDATIONS FOR SUB-GRADE BUILDING PAD AND FOUNDATION BEARING PREPARATIONS. CONTRACTOR SHALL FOLLOW REPORTS RECOMMENDATIONS FOR BUILDING PAD AND OPEN FOUNDATION PROTECTION FROM WEATHER. EXTERIOR AND PERIMETER BUILDING FOUNDATION SHALL NOT BEAR ABOVE THE LOCAL FROST LINE. REFER TO ARCHITECTURAL DRAWINGS FOR PERIMETER SLAB/FOUNDATION INSULATION REQUIREMENTS.

FD 3 BACK FILL

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO BRACE WALLS DURING BACKFILLING. CARE SHALL BE TAKEN DURING PLACEMENT OF BACKFILL ALONG THE WALL SO AS TO NOT OVERLOAD THE WALL DUE TO HEAVY EQUIPMENT. ONLY LIGHTWEIGHT (A MAXIMUM OF ONE TON TOTAL WEIGHT) EQUIPMENT SHALL BE PERMITTED WITHIN THE CRITICAL ZONE DEFINED AS BEGINNING AT THE BASE OF THE WALL ON A 1:1 SLOPE.

STRUCTURAL CONCRETE

CO 1 CONCRETE SHALL BE IN ACCORDANCE WITH ACI MANUAL 315 AND STANDARD 318. CONCRETE SHALL BE OF REGULAR AGGREGATE AND SHALL HAVE DESIGN COMPRESSIVE STRESS AT 28 DAYS AS FOLLOWS:
- a. f'c = 3,000 psi FOR FOUNDATIONS AND FOUNDATION WALLS.
- b. f'c = 3,000 psi FOR SLAB ON GRADE
- c. f'c = 3,500 psi AIR ENTRAINED FOR EXTERIOR CONCRETE
- d. f'c = 4,000 psi FOR ELEVATED SLABS

CO 2 PROVIDE AIR ENTRAINED CONCRETE FOR CONCRETE EXPOSED TO WEATHER.

CO 3 SLAB ON GRADE
- a. PROVIDE A 4" CONCRETE SLAB WITH 6x6 W1.4xW1.4 WWF OVER 8 MIL POLY VAPOR RETARDER OVER 4" OF DRAINAGE FILL.
- b. DRAINAGE FILL SHALL BE WASHED SAND, WASHED #57 STONE, SCREENINGS, CRUSHER RUN OR OTHER MATERIAL APPROVED BY THE SOIL ENGINEER.

CO 4 REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ALL MOLDS, GROOVES, ETC. AND FOR LOCATIONS OF SLEEVED AND INSERTS TO BE CAST IN CONCRETE SLABS AND FLOORS.

CO 5 FOR SIZE, NUMBER AND LOCATIONS OF ALL SLAB OPENINGS AND MECHANICAL HOUSEKEEPING PADS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS. PROVIDE MECHANICAL HOUSEKEEPING PADS AS REQUIRED AND REINFORCE WITH #4@12" EACH WAY U.N.O. DOWEL PADS INTO SUPPORTING SLAB.

CO 6 REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. DETAILING SHALL BE IN ACCORDANCE WITH ACI MANUAL 315 AND STANDARD 318. LAP SPLICES IN CONCRETE SHALL BE IN ACCORDANCE WITH CHAPTER 12 OF ACI 318-08. REINFORCING STEEL SHALL HAVE A MINIMUM CONCRETE COVER AS TABULATED BELOW UNLESS OTHERWISE NOTED:

WALLS 1 1/2"
FOUNDATIONS 2" FOR FORMED CONCRETE
3" WHERE CONCRETE IS CAST AGAINST GROUND

CO 7 **MINIMUM SPLICE & EMBEDMENT LENGTHS**

		MIN EMBEDMENT, (IN)	
	MIN LAP (IN)	STRAIGHT	STD HOOK
BAR SIZE	OTHER-TOP	OTHER-TOP	ALL BARS
#3	12 - 14	12 - 14	6
#4	15 - 19	15 - 19	7
#5	18 - 24	18 - 23	9
#6	22 - 28	22 - 28	10
#7	25 - 33	25 - 33	12
#8	29 - 37	29 - 37	14

STRUCTURAL STEEL

ST 1 STRUCTURAL STEEL SHALL BE IN ACCORDANCE AISC 360-10:

a. ALL STRUCTURAL	A992
b. MISC STEEL, CHANNELS, ANGLES, PLATES	A36
c. STEEL TUBING	ASTM A500 GRADE B
d. SHOP AND FIELD WELDS	E70XX ELECTRODES
e. BOLTS (3/4" DIAMETER MIN)	A325 HIGH STRENGTH
f. ANCHOR BOLTS	F1554 GR. 36
g. COLUMN BASE PLATES	3/4" HOOKED UNO 5" PROJECTION + 9" EMBED + 3" HOOK

ST 2 CONTRACTOR MAY USE EXPANSION BOLTS OR EPOXY BOLTS IN LIEU OF ANCHOR BOLTS FOR WOOD SILL PLATES. USE 5/8" EXPANSION BOLTS w/ 4" EMBED w/ 1/4"x3"x3" PLATE WASHER AT SAME SPACING.

ST 3 CONTRACTOR MAY USE EPOXY ALL THREAD BOLTS FOR COLUMN BASE PLATE ANCHOR BOLTS. EMBEDMENT TO BE 9".

ST 4 GROUT UNDER BASE AND BEARING PLATES SHALL BE NON-SHRINK, NON-METALLIC.

ST 5 ANCHOR BOLTS, BASE PLATES AND COLUMNS SHALL BE PROTECTED FROM DIRECT CONTRACT w/ THE GROUND. COAT HEAVILY AND VOID FREE WITH ASPHALTIC MASTIC.

ST 6 ALL WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS.

ST 7 HOLES SHALL NOT BE CUT THROUGH BEAMS UNLESS INDICATED OR APPROVED BY THE ENGINEER.

ST 8 PRIME STRUCTURAL AND MISC. STEEL WITH MANUFACTURES STANDARD IRON OXIDE PRIMER -- COLOR GRAY. PRIMER SHALL BE COMPATIBLE WITH FINISH COAT OF PAINT WHEN PROVIDED.

ST 9 STRUCTURAL STEEL DETAILING, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION".

ST10 HSS TUBE COLUMNS SHALL HAVE ONE-EIGHTH INCH CAP PLATES.

COMPOSITE METAL DECK

CD 1 COMPOSITE DECK SHALL BE IN ACCORDANCE WITH THE STEEL DECK INSTITUTE ANSI/SDI-C1.0 STANDARD FOR COMPOSITE STEEL DECK.

CD 2 COMPOSITE DECK SHALL BE FABRICATED USING 33 KSI OR 50 KSI STEEL AS DETERMINED BY THE SUPPLIER BASED ON THE SPAN AND LOADING CONDITIONS.

CD 3 DECK SHALL HAVE A G60 GALVANIZED FINISH.

CD 4 COMPOSITE DECK TYPE SHALL BE AS INDICATED ON THE DRAWINGS AND REINFORCED WITH 6x6 W2.0xW2.0 WELDED WIRE MESH U.N.O.

CD 5 ATTACHMENT OF METAL DECK TO WALLS AND STEEL SHALL BE AS RECOMMENDED BY THE DECK MANUFACTURER. MINIMUM BEARING 2" ON STEEL

CD 6 14 GAGE SDI POUR STOPS SHALL BE PROVIDED AT ALL DECK EDGES.

CD 7 COMPOSITE DECK IS TO BE SHORED DURING CONCRETE PLACEMENT. SHORING SHALL BE DETERMINED BY THE CONTRACTOR.

LOAD BEARING METAL STUDS

MS 1 GENERAL CONTRACTOR TO PROVIDE A LEVEL BEARING SURFACE FOR BOTTOM TRACK OF LOAD-BEARING METAL STUDS AT EVER FLOOR. METAL STUDS TO HAVE SOLID BEARING ON SUPPORTING SURFACES.

MS 2 ALL COLD-FORMED STEEL MEMBERS (STUDS, TRACKS & ACCESSORIES) SHALL BE MANUFACTURED BY SSMA CERTIFIED SUPPLIERS. ALL COMPONENTS SHALL COMPLY WITH THE LATEST EDITION OF AISI (AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

MS 3 STUDS, TRACKS AND ACCESSORIES SHALL BE ASTM A525 G90 GALVANIZED MINIMUM.

MS 4 FABRICATOR MAY USE SCREWS OR WELDS TO ATTACH MATERIALS PROVIDED WELDER IS ANSI/AWI D1.3-98 CERTIFIED. WELDED MATERIAL SHALL BE EQUAL TO OR GREATER THAN 18 GAGE. ALL WELDING SHALL BE TOUCHED UP WITH ZINC RICH PAINT.

MS 5 WALLS SHALL BE CONSTRUCTED SUCH THAT THE WALL STUDS WILL HAVE UNIFORM BEARING ON THE TOP AND BOTTOM TRACK.

MS 6 WALL STUDS SHALL VERTICALLY ALIGN FROM FLOOR TO FLOOR.

MS 7 TRACKS GAGE SHALL MATCH WALL STUDS BUT NOT LESS THAN 54x50.

MS 8 UNLESS NOTED OTHERWISE TRACK SHALL BE ATTACHED TO FLOORS AS FOLLOWS:
- a. EXTERIOR WALLS: 0.117 POWDER ACTUATED FASTENERS (PAF) AT 8" o.c. WITH 1½" EMBED.
- b. INTERIOR WALLS: 0.117 PAF AT 16" o.c. WITH 1½" EMBED

MS 9 CUTTING OF LOAD-BEARING STUDS OR TRACK IS NOT PERMITTED WITHOUT SPECIFIC WRITTEN PERMISSION FROM THE MANUFACTURER.

MS 10 CUTTING OF HEADERS IS NOT PERMITTED.

MS 11 FOR WALLS GREATER THAN 12FT TALL 4"x14 GAGE FLAT STRAPS SHALL BE ADDED TO THE EACH FACE OF THE WALL AT THE BRIDGING LOCATIONS

SUBMITTALS

SB 1 SUBMITTALS SHALL BE PROVIDED THROUGH THE ARCHITECT IN ACCORDANCE WITH THE GENERAL CONDITIONS.

SB 2 REVIEW IS ONLY FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THE REVIEW DO NOT RELIEVE THE GENERAL CONTRACTOR FROM COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. REVIEW OF A SPECIFIC ITEM SHALL NOT INCLUDE REVIEW OF AN ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE CONTRACTOR IS RESPONSIBLE FOR DIMENSIONS TO BE CONFIRMED AND CORRELATED AT THE JOBSITE; INFORMATION THAT PERTAINS SOLELY TO THE FABRICATION PROCESSES AND PROCEDURES OF THE CONSTRUCTION; COORDINATION OF THE WORK WITH THAT OF ALL OTHER TRADES AND PERFORMING ALL WORK IN A SAFE AND SATISFACTORY MANNER.

SB 3 REVIEW OF SHOP DRAWINGS DOES NOT WARRANT OR REPRESENT THAT THE INFORMATION WITHIN THE SUBMITTAL IS EITHER ACCURATE OR COMPLETE. SOLE RESPONSIBILITY FOR CORRECT DESIGN, DETAILS, DIMENSIONS AND QUANTITIES SHALL REMAIN WITH THE PARTY PROVIDING THE SUBMITTAL AND THE GENERAL CONTRACTOR.

SB 4 CHANGES TO THE CONTRACT DOCUMENTS MUST BE DOCUMENTED SEPARATELY FROM SHOP DRAWINGS.

SB 5 REQUIRED SUBMITTALS - (SUBMITTALS OTHER THAN THOSE LISTED SHALL NOT BE REVIEWED):

SB 6 SUBMIT FOR REVIEW:
- a. CONCRETE DESIGN MIX - EACH TYPE
- b. STRUCTURAL STEEL ERECTION DRAWINGS
- c. LOAD BEARING METAL STUD WALLS/FRAMING LAYOUT

DRAWING INDEX

S001	STRUCTURAL NOTES
S002	STRUCTURAL SPECIAL INSPECTIONS
S101	FOUNDATION PLAN
S201	SECOND FLOOR FRAMING PLAN
S202	ROOF FRAMING PLAN
S203	CANOPY FOUNDATION & ROOF FRAMING PLAN
S301	FOUNDATION SECTIONS
S401	METAL STUD DETAILS
S501	FRAMING SECTIONS

WHISONANT ENGINEERING SERVICES, LLC
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Email: bill@wesllc.com

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STAMP
WILLIAM O. WHISONANT
REGISTERED PROFESSIONAL ENGINEER
ENGINEER
19764
STATE OF MISSISSIPPI
05/15/17

NO.	DATE	REVISION
1	08/14/17	2ND FLOOR FRAMING

BAPS, INC.
RENOVATION OF SWAMI NARAYAN TEMPLE
2390 GREENWAY DRIVE
JACKSON, MS 39204

RELEASED FOR:
- ☐ PRELIMINARY ONLY
- ☐ PRICING
- ■ PERMIT
- ■ CONSTRUCTION

DATE : 03-13-17

DRAWING TITLE:
STRUCTURAL NOTES

SCALE:
PROJECT NO: 037P04
DATE: 03-13-17
DRAWN BY: HVS
CHECKED BY: WOW

SHEET NO:
S001

8/16/2017 2:18:49 PM

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

REQUIRED VERIFICATION AND INSPECTION OF SOILS

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	–	X
2. Verify excavations are extended to proper depth and have reached proper material.	–	X
3. Perform classification and testing of compacted fill materials.	–	X
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	–
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	–	X

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. Inspection of reinforcing steel, including prestressing tendons, and placement.	–	X	ACI 318: 3.5, 7.1–7.7
2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5b.	–	–	AWS D1.4 ACI 318: 3.5.2
3. Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used.	X	–	ACI 318: 8.1.3, 21.2.8
4. Inspection of anchors installed in hardened concrete.	–	X	ACI 318: 3.8.6, 8.1.3, 21.2.8
5. Verifying use of required design mix.	–	X	ACI 318: Ch. 4, 5.2–5.4
6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	–	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8
7. Inspection of concrete and shotcrete placement for proper application techniques.	X	–	ACI 318: 5.9, 5.10
8. Inspection for maintenance of specified curing temperature and techniques.	–	X	ACI 318: 5.11, 5.13
9. Inspection of prestressed concrete:			
a. Application of prestressing forces.	N/A	–	ACI 318: 18.20 ACI 318: 18.18.4
b. Grouting of bonded prestressing tendons in the seismic–force–resisting system.	N/A	–	
10. Erection of precast concrete members.	N/A	–	ACI 318: Ch. 16
11. Verification of in–situ concrete strength, prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs.	N/A	–	ACI 318: 6.2
12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	N/A	–	ACI 318: 6.1.1

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD
1. Material verification of high–strength bolts, nuts and washers:			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	–	X	AISC 360, Section A3.3 and applicable ASTM material standards
b. Manufacturer's certificate of compliance required.	–	X	–
2. Inspection of high–strength bolting:			
a. Snug–tight joints.	–	X	AISC 360, Section M2.5
b. Pretensioned and slip–crtitical joints using turn–of–nut with matchmaking, twist–off bolt or direct tension indicator methods of installation.	–	X	
c. Pretensioned and slip–critical joints using turn–of–nut without matchmarking or calibrated wrench methods of installation.	X	–	
3. Material verification of structural steel and cold formed steel deck:			
a. For structural steel, identification markings to conform to AISC 360.	–	X	AISC 360, Section M5.5
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	–	X	Applicable ASTM material standards
c. Manufacturer's certified test reports.	–	X	–
4. Material verification of weld filler materials:			
a. Identification markings to conform to AWS specifications in the approved construction documents.	–	X	AISC 360, Section A3.5 and applicable AWS A5 documents
b. Manufacturer's certificate of compliance required.	–	X	–
5. Material verification of load bearing metal stud:			
a. Verify metal strength, size, gage and spacing for studs, lintels and track.	–	X	–
b. Verify fastener size, length, spacing of mechanical connectors, floor, roof and shear wall sheathing.	–	X	–
c. Verify lateral bracing in load bearing walls and verify lintel stiffeners.	–	X	–
d. Verify size of spacing of attachment to the foundation.	–	X	–
e. Verify location of shear walls.	–	X	–
6. Inspection of welding:			
a. Structural steel and cold–formed steel deck:			
1) Complete and partial joint penetration groove welds.	X	–	AWS D1.1
2) Multipass fillet welds.	X	–	
3) Single–pass fillet welds > $\frac{5}{16}$"	X	–	
4) Plug and slot welds.	X	–	
5) Single–pass fillet welds ≤ $\frac{5}{16}$"	–	X	
6) Floor and roof deck welds.	–	X	AWS D1.3
b. Reinforcing steel:			
1) Verification of weld ability of reinforcing steel other than ASTM A 706.	–	X	AWS D1.4 ACI 318: Section 3.5.2
2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.	X	–	
3) Shear reinforcement.	X	–	
4) Other reinforcing steel.	–	X	
7. Inspection of steel frame joint details for compliance:			
a. Details such as bracing and stiffening.	–	X	–
b. Member locations.	–	X	–
c. Application of joint details at each connection.	–	X	–

SPECIAL INSPECTIONS:

1. SPECIAL INSPECTIONS ARE REQUIRED FOR THIS PROJECT
2. SPECIAL INSPECTIONS SHALL BE DONE AS THE WORK PROGRESSES.
3. FOR EACH CONSTRUCTION ACTIVITY LISTED FOR INSPECTION THE INSPECTOR SHALL BE ON SITE PERIODICALLY OR CONTINUOUSLY AS INDICATED WHILE THE WORK IS BEING PERFORMED.
4. NON–COMPLIANT WORK SHALL REPORTED BY THE SPECIAL INSPECTOR AND CORRECTED BY THE GENERAL CONTRACTOR. A FOLLOW UP INSPECTION SHALL BE PERFORMED TO CONFIRM COMPLIANCE OF THE CORRECTIVE ACTION.
5. A FINAL INSPECTION ONCE THE ACTIVITY IS COMPLETED TO CONFIRM COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

WES WHISONANT ENGINEERING SERVICES, LLC
22 Nut Tree Court
Lexington, South Carolina 29072
(803) 957–4008
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ENGINEER
19764
STATE OF MISSISSIPPI
5/31/17

NO.	DATE	REVISION
1	08/14/17	2ND FLOOR FRAMING

BAPS, INC.
RENOVATION OF SWAMI NARAYAN TEMPLE
2390 GREENWAY DRIVE
JACKSON, MS 39204

RELEASED FOR:
□PRELIMINARY ONLY
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■PERMIT
■CONSTRUCTION
DATE : 03–13–17

DRAWING TITLE:
STRUCTURAL SPECIAL INSPECTIONS

SCALE:
PROJECT NO: 037P04
DATE: 03-13-17
DRAWN BY: HVS
CHECKED BY: WOW

SHEET NO:
S002

8/16/2017 2:18:50 PM

FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F20	2'-0" x 2'-0" x 12"	3 #5 EW
F30	3'-0" x 3'-0" x 12"	3 #5 EW
F40	4'-0" x 4'-0" x 12"	4 #5 EW

COLUMN SCHEDULE		
MARK	SIZE	BASE PLATE
C1	HSS 3½x3½x⅜	10x10x½

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NO.	DATE	REVISION
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BAPS, INC.
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JACKSON, MS 39204

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DRAWING TITLE:

FOUNDATION PLAN

SCALE: AS SHOWN
PROJECT NO: 037P04
DATE: 03-13-17
DRAWN BY: HVS
CHECKED BY: WOW

SHEET NO:

S101

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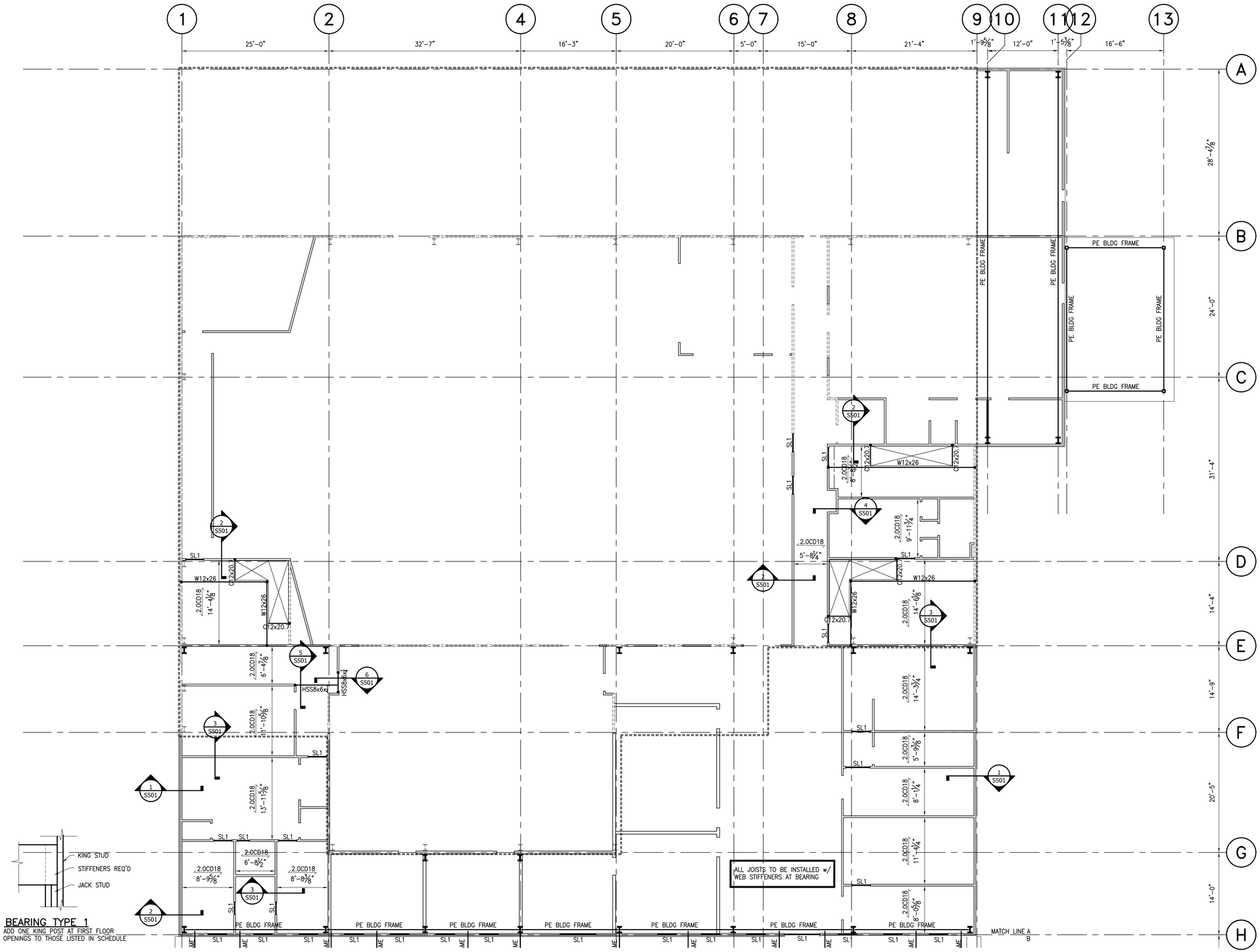

KING STUD
STIFFENERS REQ'D
JACK STUD

BEARING TYPE 1
ADD ONE KING POST AT FIRST FLOOR OPENINGS TO THOSE LISTED IN SCHEDULE

LINTEL SCHEDULE

MARK	SIZE	DETAIL	BEARING TYPE	SUPPORT
SL1	(2) 600S162-54x50		1	2 JACK STUDS 1 KING STUD
NON LOAD BEARING LINTELS	(2) 600S162-33x33		1	2 JACK STUDS 1 KING STUD

SECOND FLOOR FRAMING PLAN

1/8" = 1'-0"

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BAPS, INC.
RENOVATION OF SWAMI NARAYAN TEMPLE
2390 GREENWAY DRIVE
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DRAWING TITLE:
SECOND FLOOR FRAMING PLAN

SCALE: AS SHOWN
PROJECT NO: 037P04
DATE: 03-13-17
DRAWN BY: HVS
CHECKED BY: WOW

SHEET NO:
S201

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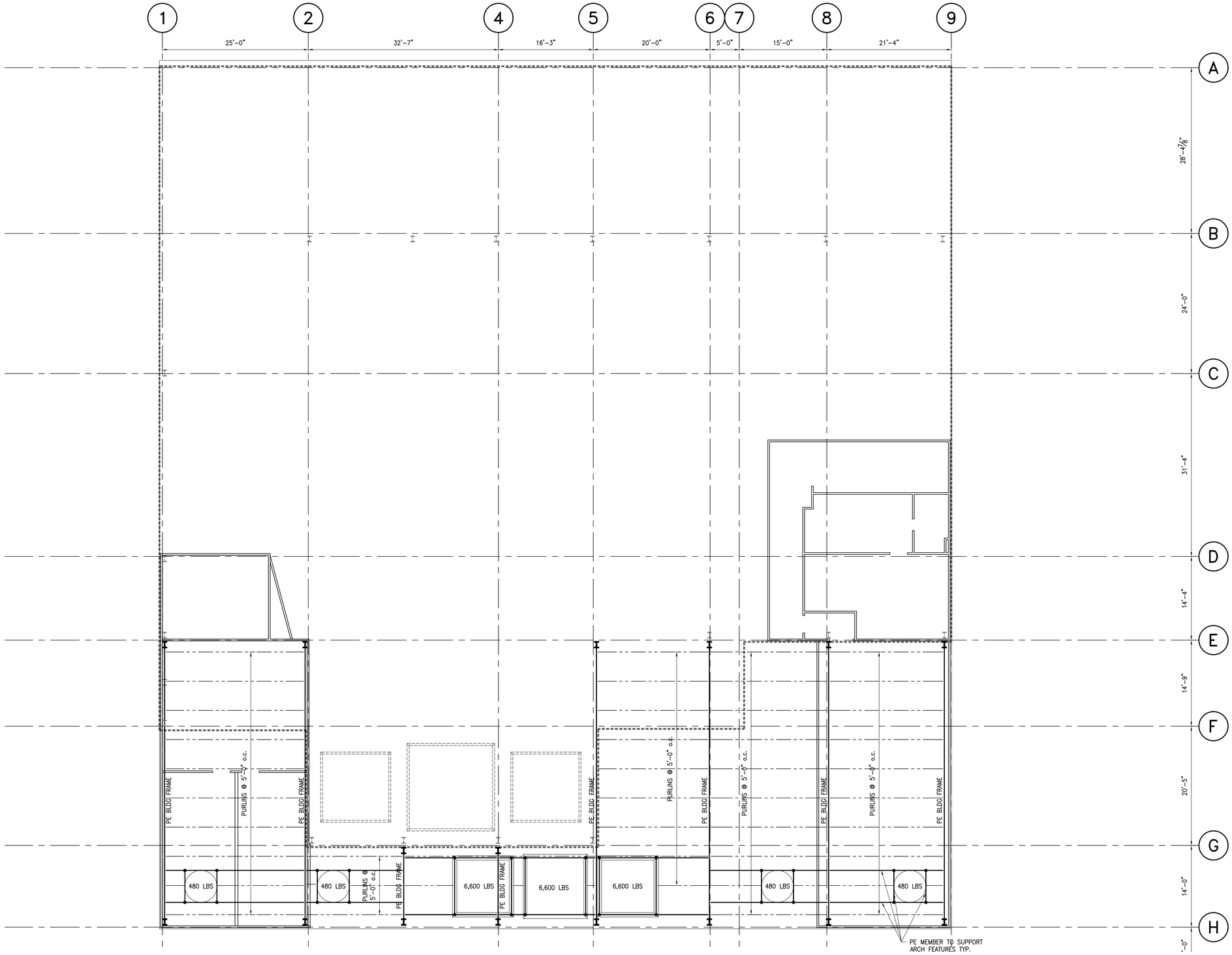

ROOF FRAMING PLAN

1/8" = 1'-0"

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- ■ CONSTRUCTION

DATE : 03-13-17

DRAWING TITLE:
ROOF FRAMING PLAN

SCALE:	AS SHOWN
PROJECT NO:	037P04
DATE:	03-13-17
DRAWN BY:	HVS
CHECKED BY:	WOW

SHEET NO:
S202

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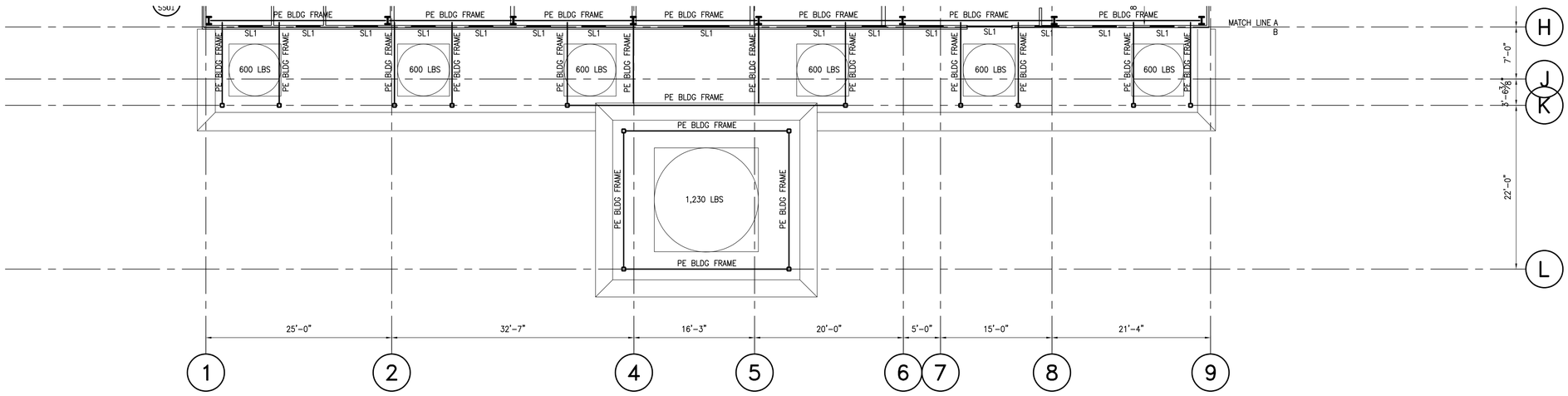
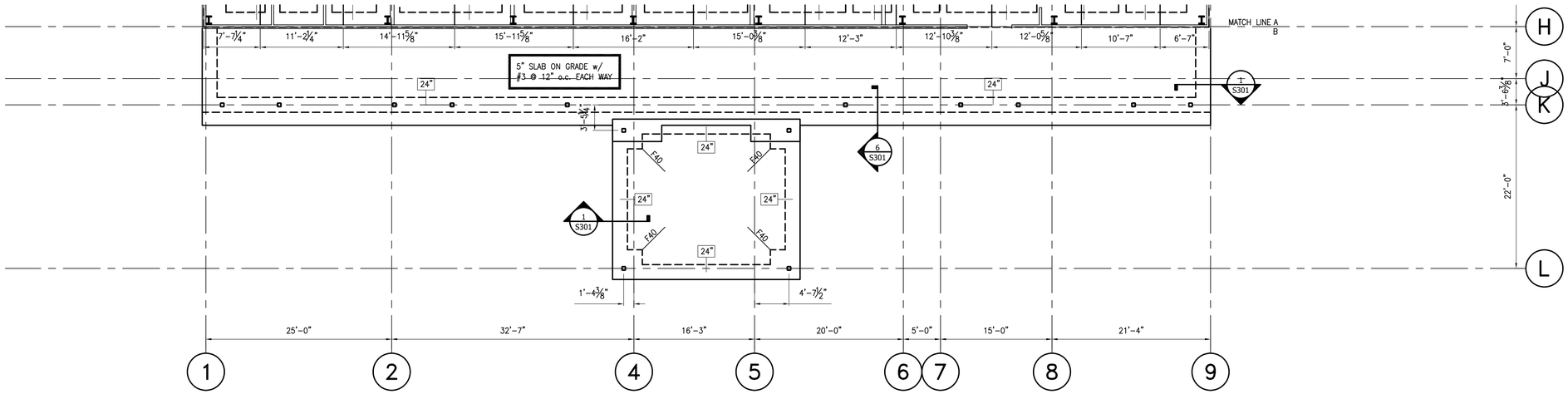


ROOF FRAMING PLAN

1/8" = 1'-0"



FOUNDATION PLAN

1/8" = 1'-0"

FOOTING SCHEDULE		
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F30	3'-0" x 3'-0" x 12"	3 #5 EW
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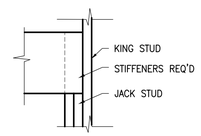

BEARING TYPE 1
ADD ONE KING POST AT FIRST FLOOR OPENINGS TO THOSE LISTED IN SCHEDULE

LINTEL SCHEDULE				
MARK	SIZE	DETAIL	BEARING TYPE	SUPPORT
SL1	(2) 600S162-54x50		1	2 JACK STUDS 1 KING STUD
NON LOAD BEARING LINTELS	(2) 600S162-33x33		1	2 JACK STUDS 1 KING STUD

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BAPS, INC.
RENOVATION OF SWAMI NARAYAN TEMPLE
2390 GREENWAY DRIVE
JACKSON, MS 39204

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■CONSTRUCTION
DATE : 03-13-17

DRAWING TITLE:
CANOPY FOUNDATION & ROOF FRAMING PLAN

SCALE: AS SHOWN
PROJECT NO: 037P04
DATE: 03-13-17
DRAWN BY: HVS
CHECKED BY: WOW

SHEET NO:
S203

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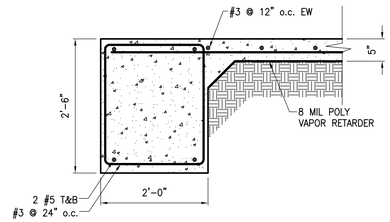
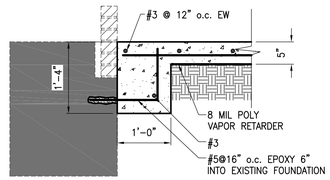


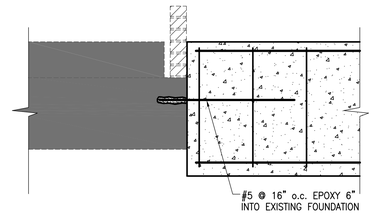
1 S301 **SECTION**

3/4" = 1'-0"



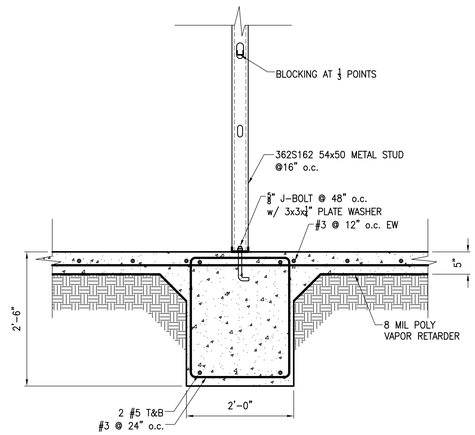
2 S301 **SECTION**

3/4" = 1'-0"



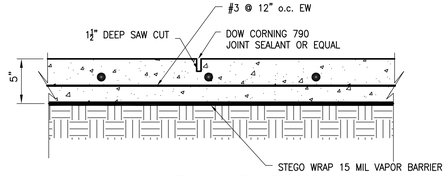
3 S301 **SECTION**

3/4" = 1'-0"

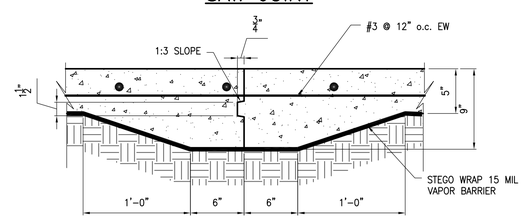


4 S301 **24" GRADE BEAM**

3/4" = 1'-0"



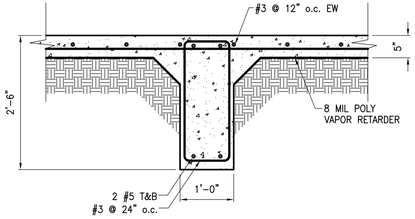
SAW JOINT



KEYED JOINT

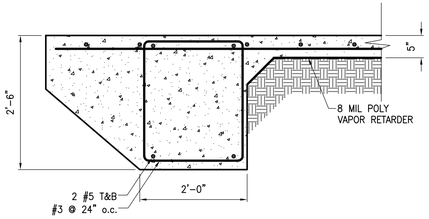
CONTROL JOINT DETAIL – OPTIONS

1 1/2" = 1'-0" EITHER SAWED OR KEYED JOINT MAY BE USED FOR CONTROL JOINTS SHOWN PROVIDE KEYED JOINT ONLY AT POUR STOPS



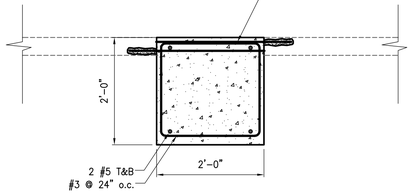
5 S301 **12" GRADE BEAM**

3/4" = 1'-0"



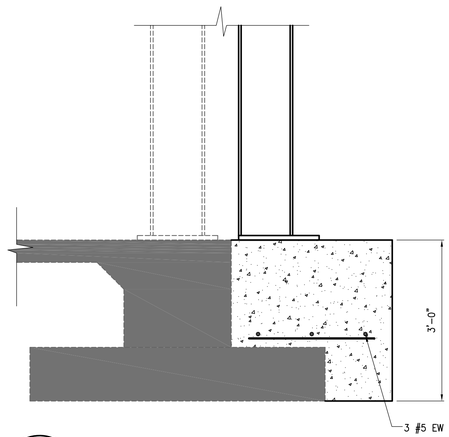
6 S301 **SECTION**

3/4" = 1'-0"



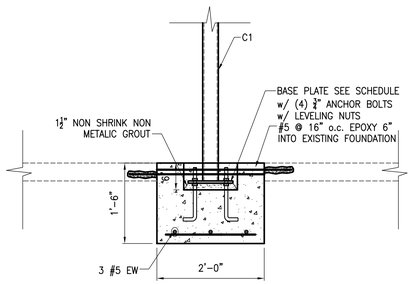
7 S301 **SECTION**

3/4" = 1'-0"



8 S301 **SECTION**

3/4" = 1'-0"



9 S301 **SECTION**

3/4" = 1'-0"

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05/19/17

NO.	DATE	REVISION
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BAPS, INC.
RENOVATION OF SWAMI NARAYAN TEMPLE
2390 GREENWAY DRIVE
JACKSON, MS 39204

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DATE : 03-13-17

DRAWING TITLE:

FOUNDATION SECTIONS

SCALE: AS SHOWN
PROJECT NO: 037P04
DATE: 03-13-17
DRAWN BY: HVS
CHECKED BY: WOW

SHEET NO:
S301

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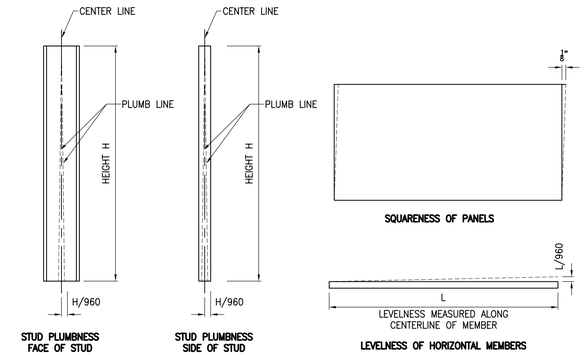
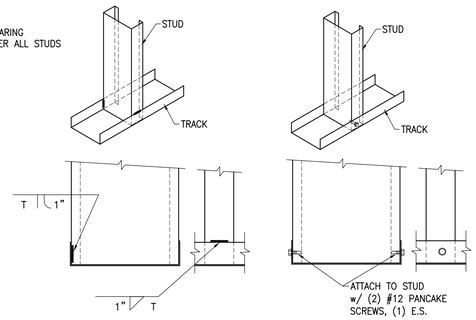


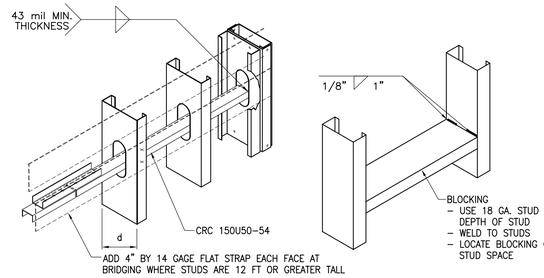
FABRICATION & ERECTION TOLERANCES PER ASTM C955-09 & ASTM C1007

NTS



TRACK TO STUD

NTS



BRIDGING DETAIL

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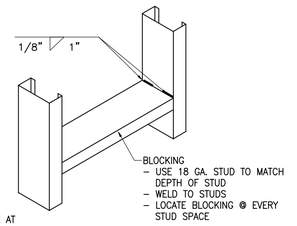
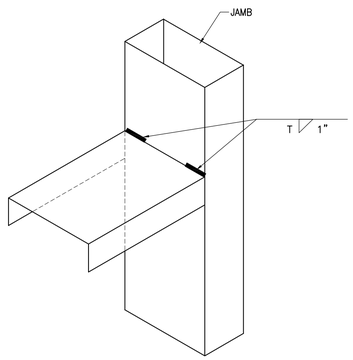


SOLID BLOCKING

NTS

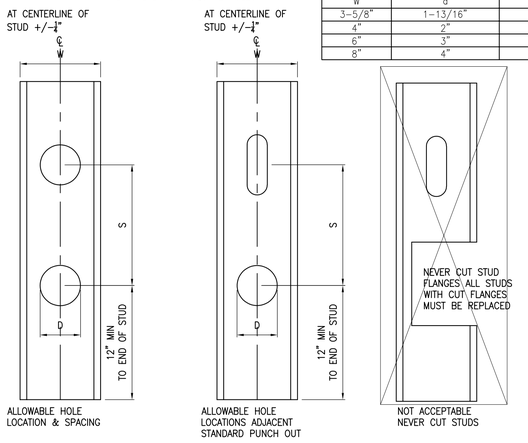


SINGLE TRACK SILL OR HEAD

NTS

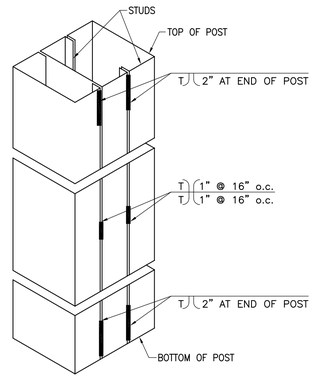
NOTES:
1. ALWAYS DRILL ROUND HOLES
2. NEVER CUT SQUARE HOLES

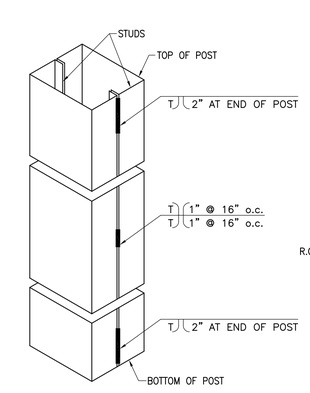
STUD DEPTH W	MAX HOLE DIA d	SMALLEST SPACING S
3-5/8"	1-13/16"	5-1/2"
4"	2"	6"
6"	3"	9"
8"	4"	12"

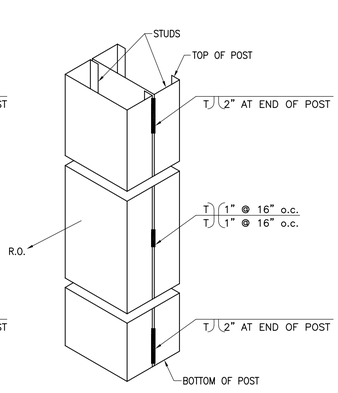


LIMITATION OF CUTTING HOLES IN STUD WEBS

NTS

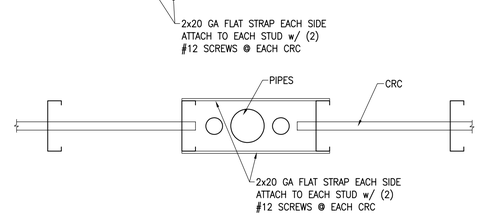






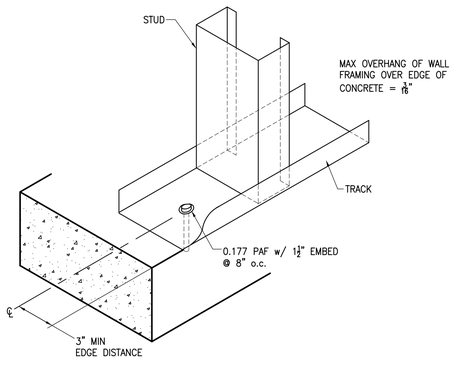
POST/JAMB ASSEMBLY

NTS



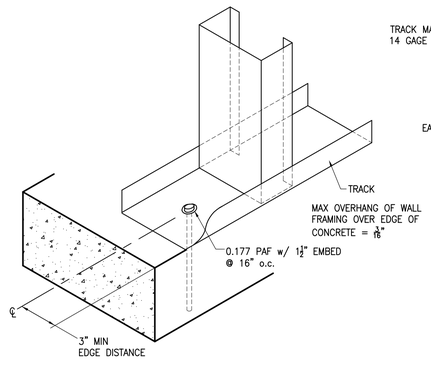
WALL BRIDGING REINFORCEMENT

NTS



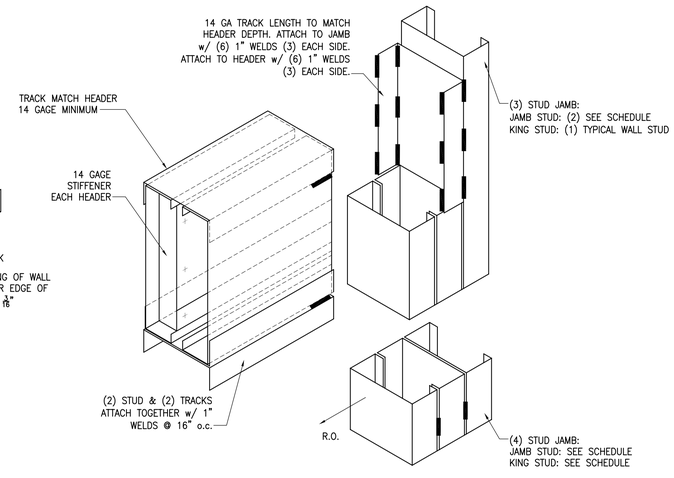
EXTERIOR WALL TRACK TO CONCRETE

NTS



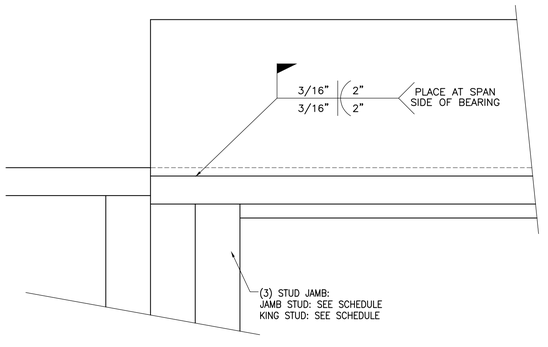
INTERIOR WALL TRACK TO CONCRETE

NTS



BOXED HEADER TO JAMB

NTS



ANGLE HEADER @ LIGHT GAUGE POST

NTS

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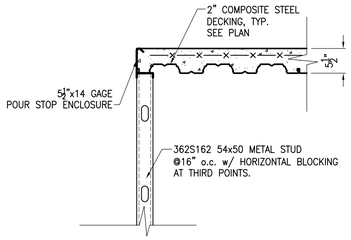
DATE : 03-13-17

DRAWING TITLE:
METAL STUD DETAILS

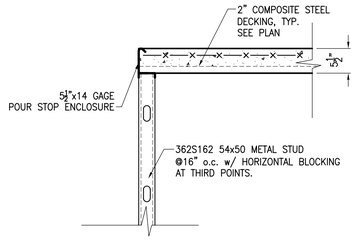
SCALE: AS SHOWN
PROJECT NO: 037P04
DATE: 03-13-17
DRAWN BY: HVS
CHECKED BY: WOW

SHEET NO:
S401

8/16/2017 2:18:53 PM



1 S501 **SECTION**
3/4" = 1'-0"



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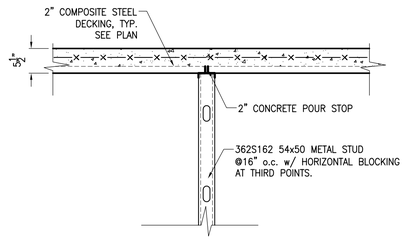

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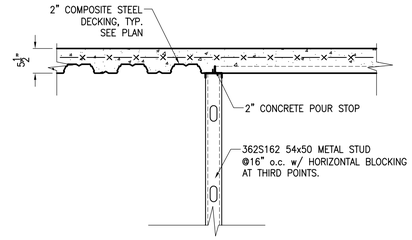
3/4" = 1'-0"



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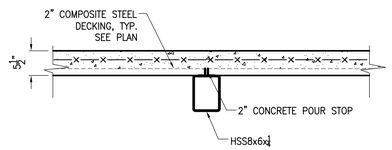
3/4" = 1'-0"



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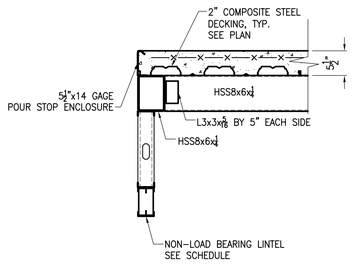
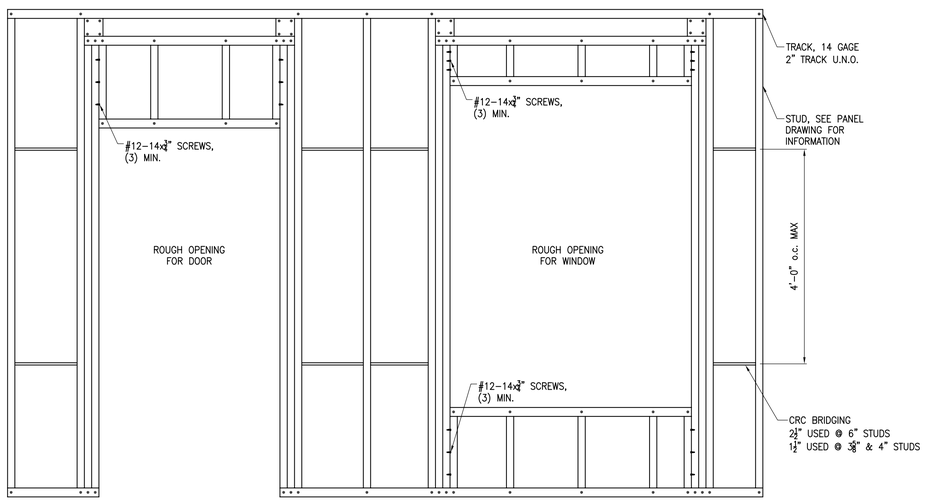
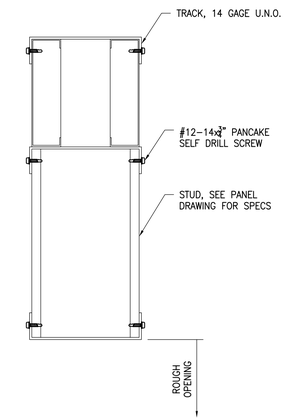
3/4" = 1'-0"



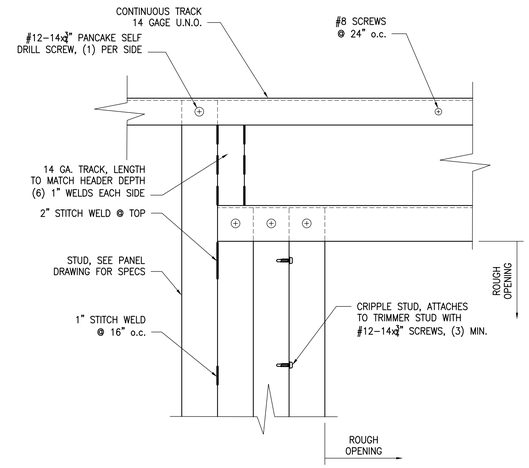
6 S501 **SECTION**
3/4" = 1'-0"



ROUGH OPENING ELEVATION
3/4" = 1'-0"



HEADER SECTION
3" = 1'-0"



HEADER DETAIL
3" = 1'-0"

WHISONANT ENGINEERING SERVICES, LLC
22 Nut Tree Court
Lexington, South Carolina 29072
(803) 957-4008
Email: bill@wesiec.com

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STAMP
WILLIAM O. WHISONANT REGISTERED PROFESSIONAL ENGINEER
ENGINEER
19764
STATE OF MISSISSIPPI
5/31/17

NO.	DATE	REVISION
1	08/14/17	2ND FLOOR FRAMING

BAPS, INC.
RENOVATION OF SWAMI NARAYAN TEMPLE
2390 GREENWAY DRIVE
JACKSON, MS 39204

RELEASED FOR:
□ PRELIMINARY ONLY
□ PRICING
■ PERMIT
■ CONSTRUCTION
DATE : 03-13-17

DRAWING TITLE:
FRAMING SECTIONS

SCALE: AS SHOWN
PROJECT NO: 037P04
DATE: 03-13-17
DRAWN BY: HVS
CHECKED BY: WOW

SHEET NO:
S501

8/16/2017 2:18:53 PM

1 MD100 MECHANICAL DEMO PLAN
SCALE: 1/8" = 1'-0"

ALLIED CONSULTING ENGINEERS
2905-D Queen City Dr.
Charlotte, NC 28208
P: (704) 399-3943 F: (704) 394-5648
www.allied-engineers.com
Allied Job #: 16089

MISHRA ARCHITECTURE PLLC
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CIVIL
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Brandon, MS 39042
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Fa:(601) 591-0177
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STRUCTURAL
MStruct Engineering, PLLC
1521 Nassau Bl.d.
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Phone:(704) 507-3099
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MEP
Allied Consulting Engineers
2905-D Queen City Dri e
Charlotte, NC 28208
Phone:(704) 399-3943
Email:dbelk allied-engineers.com

REVISIONS		
No.	Date	Description

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TOWN DEAN BRETT LICENSED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI 4-3-17

KEY PLAN

BAPS, Inc. Reno ation o the S ami Narayan Temple

2390 Green ay Dri e
ackson, MS 39204

Dra ing Title
Mechanical Demo Plan

Phase
Construction Documents

Pro ect No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MD100

Reno ation o the S ami Narayan Temple

HVAC GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE STATE AND LOCAL CODES AND STANDARDS, AND PER MANUFACTURER'S DIRECTIONS.
2. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY PERMITS, LICENSE, INSPECTIONS, APPROVALS, AND FEES.
3. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE INSTALLATION OF ANY MATERIALS OR EQUIPMENT.
4. THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
5. DO NOT SCALE DRAWINGS FOR MEASUREMENTS.
6. ALL DUCT DIMENSIONS SHOWN ARE INTERIOR OPEN AREA DIMENSIONS. CONTRACTOR SHALL ADJUST DUCT SIZE WHEN USING INTERNAL INSULATION IN LIEU OF EXTERNAL WRAP.
7. ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTERFLASHED IN A WATERPROOF MANNER. (COLOR TO MATCH EXTERIOR).
8. SEAL ALL PENETRATIONS OF RATED WALLS WITH FIRE DAMPER, SEALANT MATERIAL APPROVED BY LOCAL CODE.
9. ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
10. INSTALL ALL CONTROL DEVICES, INCLUDING THERMOSTATS AND SWITCHES, 4'-0" ABOVE FINISHED FLOOR. PROVIDE THE REQUIRED DEVICE(S) FOR ALL SYSTEMS WHETHER LOCATED ON THE PLANS OR NOT. ANY THERMOSTAT LOCATED ON AN EXTERIOR WALL SHALL BE PROVIDED WITH AN INSULATED BASE.
11. LOCATE CEILING DIFFUSERS IN ACCORDANCE WITH ARCHITECTURAL REFLECTED CEILING PLANS (IF PROVIDED).
12. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES AROUND MECHANICAL UNITS FOR MAINTENANCE AND FILTER REMOVAL.
13. ALL PIPING AND DUCTWORK LOCATIONS SHALL BE COORDINATED W/ WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS, TO AVOID INTERFERENCE.
14. ALL SUPPLY AND RETURN DUCT SHALL BE INSULATED. CONCEALED SHEET METAL DUCT MAY BE EXTERNALLY INSULATED WITH MINERAL FIBER BOARD OR BLANKET OR MAY BE INTERNALLY INSULATED WITH DUCT LINER (R-VALUE = 5). THE FIRST 15' FROM THE AIR HANDLER SHALL BE INTERNALLY LINED. INTERNALLY LINED INSULATION SHALL MEET BACTERIOLOGICAL STANDARD ASTM C 665. ALL SPIRAL DUCTWORK SHALL BE DOUBLE WALL. IF CONTRACTOR USES INTERNAL INSULATION, SINGLE WALL DUCTWORK MAY BE USED INSTEAD. SUPPLY AND RETURN DUCTWORK IN UNCONDITIONED SPACES SHALL BE INSULATED W/ MIN. R-8 INSULATION.
15. THE EXTERNAL STATIC PRESSURE FOR ALL FANS, HVAC UNITS, ETC IS BASED ON DUCT ROUTING AS INDICATED ON PLANS. THE MECHANICAL CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEVIATIONS IN THE FIELD AS AIR QUANTITIES MAY BE AFFECTED.
16. CERTIFIED TEST AND BALANCE CONTRACTOR SHALL BALANCE SYSTEM TO AIR QUANTITIES INDICATED ON PLANS AND PROVIDE OWNER'S REPRESENTATIVE WITH COMPLETE BALANCE REPORT. BALANCE REPORT SHALL INCLUDE: SUPPLY & RETURN AIR FLOWS, ALL STATIC PRESSURES, SUPPLY & RETURN AIR TEMPERATURES AS WELL AS OUTDOOR AIR TEMPS AT TIME OF TEST. IF BALANCING DAMPERS ARE NOT PROVIDED IN RETURN DUCTWORK, CONTRACTOR SHALL BALANCE SUPPLY SIDE TO AIR QUANTITIES INDICATED ON PLANS AND SHALL BALANCE OUTSIDE AIR AND RETURN AIR FLOWS AT THE AIR HANDLER TO AIR QUANTITIES INDICATED IN THE SCHEDULE. PROVIDE NEW AIR FILTERS FOR EACH UNIT.
17. AS REQUIRED BY LOCAL CODES, MECHANICAL CONTRACTOR SHALL PROVIDE U.L. LISTED FIRE DAMPERS WHERE REQUIRED FOR FIRE PROTECTION REQUIREMENTS OF THE HVAC SYSTEM & THE UL ASSEMBLY.
18. PROVIDE 1 YEAR WARRANTY ON ALL EQUIPMENT AND 5 YEAR WARRANTY ON ALL COMPRESSORS.
19. ALL INTAKE OPENINGS SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ALL EXHAUST LOCATIONS.
20. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC PIPE AND FITTINGS. DRAINS FROM AIR HANDLING UNITS SHALL BE TRAPPED.
21. A COMPLETE SYSTEM OF SEISMIC RESTRAINTS SHALL BE DESIGNED BY MASON INDUSTRIES & SEALED BY THEIR REGISTERED ENGR & INSTALLED BY THIS CONTR. AS REQ'D BY APPLICABLE CODES FOR THE LOCALE OF THIS PROJECT.
22. ALL MAIN DUCTWORK SHALL BE GALVANIZED SHEET METAL. CONSTRUCT METAL DUCTWORK IN ACCORDANCE WITH SMACNA DUCT CONTRUCTION MANUAL INCLUDING REQUIRED THICKNESS, BRACING, JOINTS AND FITTINGS AS APPLICABLE. ALL METAL DUCT SHALL BE EITHER ASTM A653 GALVANIZED STEEL OR ASTM B209 ALUMINUM. ALL SUPPLY AND EXHAUST DUCTS SHALL COMPLY WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR PRESSURE CLASS 1"W.G. AND LEAKAGE CLASS 6 CFM/100 S.F. ALL RETURN AND OUTSIDE AIR DUCTS SHALL COMPLY WITH SMACNA PRESSURE CLASS 1"WG AND LEAKAGE CLASS 6CFM/100S.F. RUNOUTS FROM MAIN/BRANCH DUCTS MAY BE FLEXIBLE DUCT CONFORMING TO THE REQUIREMENTS OF UL 181 FOR CLASS 1 FLEXIBLE AIR DUCTS. MAX 6" FLEX PER RUNOUT.
23. THE MECHANICAL CONTRACTOR SHALL PROVIDE LOW VOLTAGE CONTROL LINES TO THE ROOFTOP UNIT. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR.
24. ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. TO ROOFTOP UNITS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.
25. MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR RELIEF HOODS, OUTSIDE AIR HOODS, LOUVERS, AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
26. MECHANICAL CONTRACTOR SHALL PAINT ALL RELIEF HOODS, INTAKE HOODS, LOUVERS, AND VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
27. PENETRATIONS OF RATED WALLS, PARTITIONS AND FLOORS OF NON- COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH NONCOMBUSTIBLE MATERIALS. PENETRATIONS OF NONRATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
28. ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
29. THE MECHANICAL CONTRACTOR SHALL COORDINATE THE REQUIRED OPENINGS IN ROOF TRUSSES WITH THE G.C. IN ORDER TO PROVIDE ADEQUATE SPACE, ACCESS AND SUPPORT FOR THE MECHANICAL UNIT.
30. IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE SHOP DRAWINGS ARE PROVIDED TO THE ARCHITECT AND ENGINEER FOR APPROVAL PRIOR TO PURCHASE OF ANY PIECE OF EQUIPMENT, DUCTWORK OR DEVICE.
31. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD A MINIMUM OF TEN BUSINESS DAYS IN ADVANCE FOR COMPLETION OF FIELD INSPECTION FOR APPENDIX 5 OF THE 2012 NC ENERGY CODE, IF ENFORCED.
32. ALL FIRE AND FIRE/SMOKE DAMPERS SHALL BE DYNAMIC TYPE.

SPLIT SYSTEM GAS FURNACE SCHEDULE

UNIT TAG	FURNACE MODEL NO. (CF)	COOLING COIL MODEL NO.	TONNAGE	TOTAL CFM	TOTAL OA	SERVING	FAN HP	ESP	TOT. COOL.	SEN. COOL.	MBH INPUT	MBH OUTPUT	ELECTRICAL DATA VOLTS	MCA	MOCP	WEIGHT
CF-1	TDX1B040A924	4TXCB025BC	1.5	600	95	SEE PLANS	0.20	0.75	18.4	13.3	40	38	120v/1ø	4.8	15	200
CF-2	TDX1B040A924	4TXCB025BC	2.0	800	90	SEE PLANS	0.20	0.50	24.5	17.5	40	38	120v/1ø	4.8	15	200
CF-3	TDX1C100A948	4TXCC049BC	4.0	1600	90	SEE PLANS	0.50	0.51	46.8	34.7	100	94	120v/1ø	13.6	20	250
CF-4	TDX1C100A948	4TXCC049BC	4.0	1600	260	SEE PLANS	0.50	0.51	46.8	34.7	100	94	120v/1ø	13.6	20	250
CF-5	TDX1B040A924	4TXCB025BC	2.0	800	100	SEE PLANS	0.20	0.50	24.5	17.5	40	38	120v/1ø	4.8	15	200

UNIT TAG	TRANE COND UNIT MODEL NO. (CU)	TONNAGE	SEER RATING	ELECTRICAL DATA VOLTS	MCA	MOCP	WEIGHT	ACCESSORIES
CU-1	4TTB3018A1	1.5	13	208v/1ø	9	15	250	1 THRU 10
CU-2	4TTB3024A1	2.0	13	208v/1ø	12	20	250	1 THRU 10
CU-3	4TTB3048A1	4.0	13	208v/1ø	27	45	300	1 THRU 10
CU-4	4TTB3048A1	4.0	13	208v/1ø	27	45	300	1 THRU 10
CU-5	4TTB3024A1	2.0	13	208v/1ø	12	20	250	1 THRU 10

NOTES:

A. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/290 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67°F WET BULB ENTERING AIR TEMP., AND NOMINAL AIR QUANTITY LISTED.

B. MINIMUM AFUE 90%

ACCESSORIES

1. REFRIGERANT R410A
2. REFRIG. PIPING TO BE SIZED PER TOTAL INSTALL. EQUIV. LENGTH. LONG-LINE APP.TO BE PROVIDED WHENEVER MFG. RECOMM. LENGTHS ARE EXCEEDED, INCL. LIQ. LINE SOLENOID VALVES, ACCUMULATOR, ETC. MAX T.E.L. IS 100'
3. PROVIDE UNIT DISCONNECT FOR ALL UNITS.
4. PROVIDE FURNACE WITH SINGLE POINT ELEC. CONNECTION.
5. PROVIDE NEW FILTER IN EACH UNIT AT TURNOVER TO OWNER.
6. PROVIDE TRANE 7-DAY PROGRAMMABLE TOUCHSCREEN THERMOSTAT
7. OUTDOOR UNITS SHALL HAVE A MNIMUM 10.0 EER RATING.
8. PROVIDE COMPLETE PVC COMB/VENT PIPE KIT PER MFG. REQMT'S.
9. SIDE PLUS BOTTOM RETURN DUCT CONNECTIONS
10. PROVIDE HIGH-STATIC DRIVE AND ALTERNATE MOTOR.

EQUAL PRODUCTS: CARRIER, LENNOX AND YORK

AIR DISTRIBUTION SCHEDULE

SYMBOL	CFM	NECK SIZE	MODULE SIZE	PATTERN	BLADE/SLOT SPACING	DAMPER	MATERIAL	SERVICE	MANUFACTURER & MODEL NO.	NOTES
A	0-100	6"ø	12"x12"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE SMD	1-4
B	0-100	6"ø	24"x24"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE SMD	1-4
C	105-175	8"ø	24"x24"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE SMD	1-4
D	180-270	10"ø	24"x24"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE SMD	1-4
E	275-390	12"ø	24"x24"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE SMD	1-4
F	150-180	14"x4"	16"x6"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE 540	1-4
G	185-235	18"x4"	20"x4"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE 540	1-4
H	125-250	8"ø	48"x4"	SLOT	(1)1½" SLOT	YES	STEEL	SUPPLY	PRICE AS215	1-5
J	400	10"ø	48"x11"	SLOT	(2)2½" SLOT	YES	STEEL	SUPPLY	PRICE AS225	1-5
K	0-175	8"ø	24"x24"	PERFORATED	-	NO	STEEL	RETURN	PRICE PDDR	1-4
L	180-270	10"ø	24"x24"	PERFORATED	-	NO	STEEL	RETURN	PRICE PDDR	1-4
M	275-390	12"ø	24"x24"	PERFORATED	-	NO	STEEL	RETURN	PRICE PDDR	1-4
N	395-500	12"x12"	24"x24"	PERFORATED	-	NO	STEEL	RETURN	PRICE PDDR	1-4
P	505-885	16"x16"	24"x24"	PERFORATED	-	NO	STEEL	TRANS/RET	PRICE PDDR	1-4
R	890-1,850	22"x22"	24"x24"	PERFORATED	-	NO	STEEL	RETURN	PRICE PDDR	1-4
S	0-50	6"x4"	8"x6"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE 540	1-4
T	0-50	6"x4"	8"x6"	LOUVERED	-	NO	STEEL	RETURN	PRICE 535	1-4
V	180-230	14"x6"	16"x8"	LOUVERED	-	NO	STEEL	TRANS/RET	PRICE 535	1-4
W	280	20"x6"	22"x8"	LOUVERED	-	NO	STEEL	TRANS/RET	PRICE 535	1-4
X	240-280	16"x6"	18"x8"	LOUVERED	-	YES	STEEL	SUPPLY	PRICE 540	1-4

NOTES:
1. FINISH TO MATCH / BE ABLE MATCH CEILING OR WALL OR DOOR. COORDINATE WITH ARCHITECT.
2. SQUARE TO ROUND TRANSITIONS PROVIDED BY AIR DISTRIBUTION SUPPLIER.
3. FURNISH WITH FRAME SUITABLE FOR INSTALLATION REQUIRED.
4. DIFFUSERS AT RATED CEILINGS SHALL BE ALL STEEL CONSTRUCTION WITH RADIATION DAMPER. PROVIDE RADIATION INSULATION BLANKET ON TOP SIDE OF DIFFUSER AS REQUIRED TO MAINTAIN RATING OF CEILING.
5. ALL LINEAR DIFFUSERS SHALL BE FURNISHED WITH PLENUM AND END CAPS.

FAN SCHEDULE

SYMBOL	TYPE	CFM	APPROX. S.P.	DRIVE	RPM	ELECTRICAL DATA WATTS	H.P.	VOLTAGE	MANUFACTURER GREENHECK	CONTROL	ACCESSORIES
EF-1	EXHAUST	100	0.35	DIRECT	739	128	-	120V/1ø	SP-B150	D	1 2 5 6 8 13
EF-2	EXHAUST	100	0.35	DIRECT	739	128	-	120V/1ø	SP-B150	D	1 2 5 6 8 13
EF-3	EXHAUST	100	0.35	DIRECT	739	128	-	120V/1ø	SP-B150	D	1 2 5 6 8 13
EF-4	EXHAUST	490	0.35	DIRECT	858	350	-	120V/1ø	SP-A700	D	1 2 5 6 8 13
EF-5	EXHAUST	400	0.35	DIRECT	1065	224	-	120V/1ø	SP-A510	D	1 2 5 6 8 13
EF-6	EXHAUST	100	0.35	DIRECT	739	128	-	120V/1ø	SP-B150	D	1 2 5 6 8 13
EF-7	EXHAUST	100	0.35	DIRECT	739	128	-	120V/1ø	SP-B150	A	1 2 5 6 8 13
EF-8	EXHAUST	100	0.35	DIRECT	739	128	-	120V/1ø	SP-B150	D	1 2 5 6 8 13
EF-9	EXHAUST	250	0.3	DIRECT	1410	1410	-	120V/1ø	GB-071	C	1 2 3

ACCESSORIES:
1: DISCONNECT BY E.C.
2: BACKDRAFT DAMPER
3: PREFAB. ROOF CURB
4: BIRDSCREEN
5: SPEED CONTROLLER
6: HANGING BRACKETS WITH VIBRATION ISOLATION
7: DISCHARGE HOOD
8: WL. WALL LOUVER DISCHARGE
9: MFG ROOF CAP
10: WALL MOUNTING COLLAR
11: MOTOR SIDE FAN GUARD
12: 2" WASHABLE ALUMINUM FLITERS
13: EXHAUST GRILLE
14: UL 762

CONTROL:
A: WALL MOUNTED SWITCH
B: WALL MOUNTED PUSH BUTTON SWITCH
C: WALL MOUNTED THERMOSTAT
D: INTERLOCK WITH ROOM LIGHT SWITCH
E: CONTINUOUS OPERATION
F: INTERLOCK WITH KITCHEN HOOD CONTROLS

NOTES:
1. ALL FANS SHALL BE U.L. LISTED AND LABELED AND SHALL BE AMCA CERTIFIED.
2. ALL FANS SHALL BE SUPPLIED BY ONE MANUFACTURER UNLESS NOTED OTHERWISE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE MAGNETIC STARTER WITH AUXILLARY CONTACTS AS REQUIRED.
4. BACKDRAFT DAMPER ON ROOF SUPPLY FANS SHALL BE MOTORIZED.
5. WHEN A SPEED CONTROLLER IS REQUIRED AND MOUNTED TO EXHAUST FAN, SPEED SHALL BE ADJUSTED TO PROVIDE LISTED AIRFLOW PRIOR TO CEILING BEING INSTALLED.

GENERAL COORDINATION NOTES

1. THE CONTRACTOR SHALL REVIEW THE ENTIRE SET OF DOCUMENTS INCLUDING BUT NOT LIMITED TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING AND THE ENTIRE PROJECT MANUAL. THE CONTRACTOR SHALL ACKNOWLEDGE AND INCLUDE IN THE SCOPE OF WORK (CONTRACT) ALL CONDITIONS PERTINENT TO THE COMPLETIONS OF HIS WORK. THE CONTRACTOR SHALL FULLY COORDINATE HIS WORK WITH THE INSTALLATION OF WORK BY ALL OTHER TRADES AND MAKE NECESSARY FIELD ADJUSTMENTS AS REQUIRED TO ACCOMMODATE THE INSTALLATION. ALL OF THE ABOVE SHALL BE INCLUDED IN THE SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
2. THE CONTRACTOR SHALL CAREFULLY EXAMINE THE DRAWINGS AND SPECIFICATIONS, VISIT THE SITE OF THE WORK AND FULLY INFORM HIMSELF AS TO ALL CONDITIONS AND MATTERS THAT CAN, IN ANY WAY AFFECT THE WORK OR THE COST THEREOF. SHOULD THE CONTRACTOR FIND DISCREPANCIES IN, OR OMISSIONS FROM THE DRAWINGS, SPECIFICATIONS OR OTHER DOCUMENTS OR BE IN DOUBT AS TO THEIR INTENT, HE SHALL NOTIFY THE ARCHITECT/ENGINEER AT ONCE IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN HIS WORK AND THE WORK OF OTHER TRADES PRIOR AND OBTAIN CLARIFICATION PRIOR TO SUBMITTING BID. LACK OF SUCH NOTIFICATION SHALL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTS. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.

PACKAGED DX COOLING / GAS HEATING ROOF TOP UNIT SCHEDULE

TAG	MANUF.	MODEL NO	SERVICE	NOM TONS	TOTAL CFM	MIN. O.A. CFM	MAX. FAN HP	ESP	MBH TOT. COOL	MBH SEN. COOL	MBH GAS IN	MBH GAS OUT	VOLTAGE /PHASE	MCA	MAX FUSE	SEER/ EER*	WEIGHT (LB)	DIMENSIONS (LxWxH)	ACCESSORIES
RTU-1	TRANE	YSC090F3	KITCHEN	7.5	3,000	750	1.0	0.60	89.0	66.6	150.0	120.0	208v/3ø	38.2	60	11.2*	1,300	89"x54"x47"	1,2,7,9,11,12,15,16,18,21,30,32
RTU-2	TRANE	YSC048G3	LIVING RM/STORAGE	4.0	1,600	400	1.0	0.50	49.0	39.0	80.0	65.6	208v/3ø	25.4	35	10.9*	1,100	70"x44"x41"	1,2,9,12,15,17,18,30,32
RTU-3	TRANE	YSC060G3	FOYER/LIBRARY	5.0	2,000	500	1.0	0.50	60.0	49.0	80.0	65.6	208v/3ø	28.2	40	11.0*	1,100	70"x44"x41"	1,2,9,11,12,15,17,18,30,32
RTU-4	TRANE	YSC036G3	STORAGE	3.0	1,200	300	0.75	0.50	37.0	30.0	80.0	65.6	208v/3ø	19.9	30	11.2*	1,100	70"x44"x41"	1,2,9,12,15,17,18,30,32

NOTES:
1. COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/290 AT 95°F AMBIENT OUTDOOR AIR TEMP., 80°F DRY BULB, 67° WET BULB ENTRANCE AIR TEMP., AND NOMINAL AIR QUANTITY LISTED.
2. PROVIDE NEW 2" MERV8 FILTERS IN UNIT WHEN TURNED OVER TO OWNER.
3. AGA CERTIFIED UL LISTED AND LABELED.
4. R-410A REFRIGERANT.
5. TRANE UNITS AS SCHEDULED ARE HIGH EFFICIENCY. ALTERNATE UNITS WOULD BE STANDARD EFFICIENCY UNITS, TRANE MODEL YS.

ACCESSORIES:
1. MINIMUM 14" HIGH INSULATED FACTORY ROOF CURB WITH VIBRATION ISOLATION.
2. PROVIDE HONEYWELL MODEL TH8321R1001 VISION PRO 8000 TOUCHSCREEN THERMOSTAT WITH 3 HEAT/2 COOL AND DE-HUMIDISTAT INPUT.
3. PROVIDE A COMMUNICATION INTERFACE. REFER TO SEQUENCE OF OPERATIONS.
4. PROVIDE A ZONE SENSOR.
5. PROVIDE A HUMIDITY SENSOR.
6. PROVIDE A HUMIDITY SENSOR IN RETURN AIR DUCT.
7. SMOKE DETECTOR IN RETURN AIR DUCT SHALL BE PROVIDED BY E.C.
8. OVER SIZED MOTOR AND HIGH STATIC DRIVE.
9. SINGLE POINT POWER CONNECTION. DISCONNECT SHALL BE PROVIDED BY E.C.
10. NON-POWERED CONVENIENCE OUTLET.
11. ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROLS.
12. GRAVITY BACKDRAFT OUTSIDE AIR DAMPER.
13. MOTORIZED OUTSIDE AIR DAMPER.
14. POWERED EXHAUST.
15. BAROMETRIC RELIEF DAMPER.
16. BELT DRIVE MOTOR.
17. DIRECT DRIVE MOTOR.
18. DOWNFLOW.
19. HORIZONTAL FLOW.
20. TWO STAGE HEATING.
21. DUAL COMPRESSOR.
22. TWO-SPEED COMPRESSOR.
23. VARIABLE SPEED SCROLL COMPRESSORS.
24. SINGLE ZONE VAV WITH EQUIPMENT AND CONTROLS AS REQUIRED PER MANUFACTURER'S RECOMMENDATIONS.
25. DIGITAL SCROLL COMPRESSORS.
26. FACTORY INSTALLED VFD.
27. VVT WITH BYPASS DAMPERS.
28. FACTORY INSTALLED HOT GAS BYPASS, AS WELL AS EQUIPMENT AND CONTROLS AS REQUIRED PER MANUFACTURER'S. RECOMMENDATIONS.
29. FACTORY INSTALLED HOT GAS REHEAT, AS WELL AS EQUIPMENT AND CONTROLS AS REQUIRED PER MANUFACTURER'S. RECOMMENDATIONS.
30. FACTORY INSTALLED RAWAL APR VALVE, AS WELL AS EQUIPMENT AND CONTROLS AS REQUIRED TO MEET SEQUENCE OF OPERATION. PROVIDE WITH 3 SHUT-OFF VALVES AS RECOMMENDED BY RAWAL.
31. PROVIDE CO2 SENSOR IN RETURN DUCT. UNIT SHALL REDUCE OSA TO 50% BELOW DESIGN VENITALTION RATE.
32. PROVIDE CONDENSATE OVERFLOW SENSOR IN COOLING COIL DRAIN PAN TO DE-ENERGIZE UNIT SHOULD A CLOGGED CONDENSATE DRAIN CONDITION OCCUR.

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No.	Date	Description

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2015 MISHRA ARCHITECTURE PLLC

KEY PLAN

BAPS, Inc.
Reno□ation o□ the S□ami Narayan Temple

2390 Green□ay Dri□e
□ackson, MS 39204

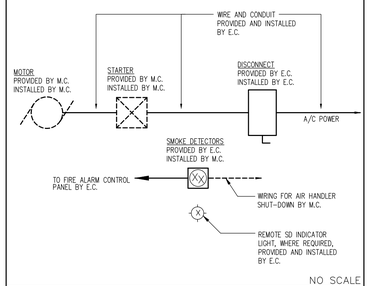
Dra□ing Title
Mechanical Notes & Schedules

Phase
Construction Documents

Pro□ect No.	12-072
Prepared by	CRM
Checked by	□DH
Date	April 3, 2017

Sheet No.
M001

Reno□ation o□the S□ami Narayan Temple



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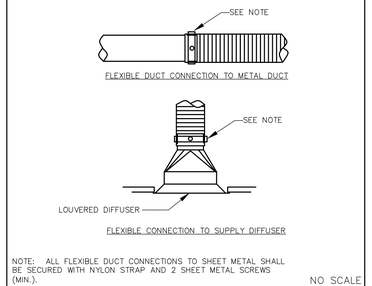
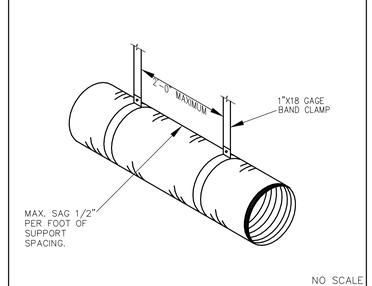
MECH-ELEC COORDINATION 1



NOTE: ALL FLEXIBLE DUCT CONNECTIONS TO SHEET METAL SHALL BE SECURED WITH NYLON STRAP AND 2 SHEET METAL SCREWS (MIN.).

NO SCALE

FLEX CONNECTIONS 2



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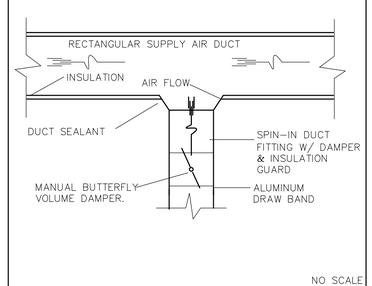
FLEXIBLE DUCT SUPPORT 3



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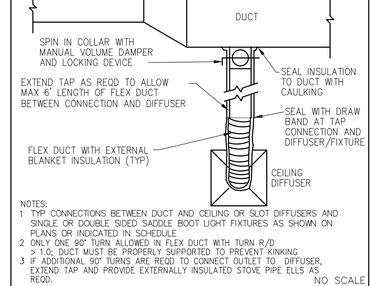
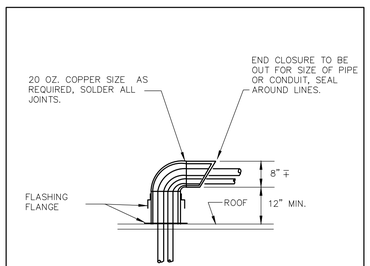
RECTANGULAR TO ROUND DUCT TAKEOFF 4



NOTES:
1 TYP CONNECTIONS BETWEEN DUCT AND CEILING OR SLOT DIFFUSERS AND SINGLE OR DOUBLE SIDED SADDLE BOOT LIGHT FIXTURES AS SHOWN ON PLANS OR INDICATED IN SCHEDULE.
2 ONLY ONE 90° TURN ALLOWED IN FLEX DUCT WITH TURN R/D > 1.0; DUCT MUST BE PROPERLY SUPPORTED TO PREVENT KINKING
3 IF ADDITIONAL 90° TURNS ARE REQD TO CONNECT OUTLET TO DIFFUSER, EXTEND TAP AND PROVIDE EXTERNALLY INSULATED STOVE PIPE ELLS AS REQD.

NO SCALE

CONNECTIONS TO MAIN DUCT 5



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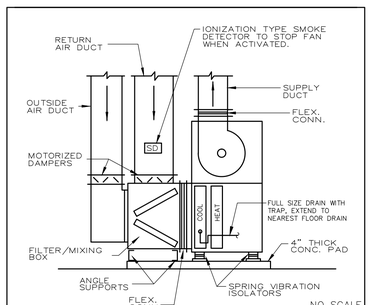
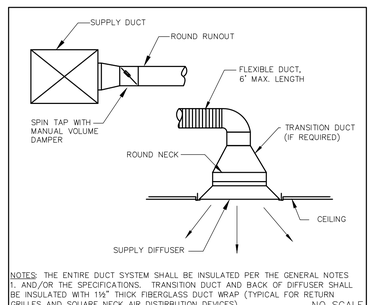
PIPE PORTAL 6



NO SCALE

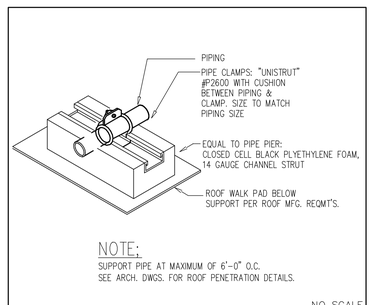
AIR HANDLING UNIT 7



NOTES: THE ENTIRE DUCT SYSTEM SHALL BE INSULATED PER THE GENERAL NOTES 1. AND/OR THE SPECIFICATIONS. TRANSITION DUCT AND BACK OF DIFFUSER SHALL BE INSULATED WITH 1½" THICK FIBERGLASS DUCT WRAP (TYPICAL FOR RETURN GRILLES AND SQUARE NECK AIR DISTIRBUTION DEVICES).

NO SCALE

SPIN TAP TO ROUND NECK DIFFUSERS 8

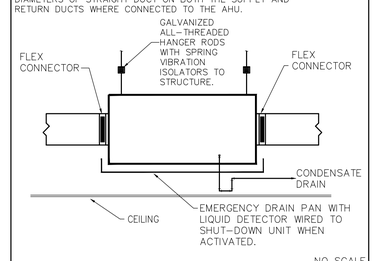


NOTE:
SUPPORT PIPE AT MAXIMUM OF 6'-0" O.C.
SEE ARCH. DWGS. FOR ROOF PENETRATION DETAILS.

NO SCALE

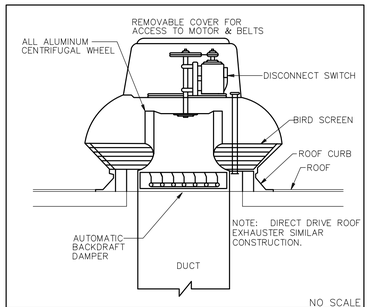
GAS PIPING SUPPORT ON ROOF DETAILS 9

NOTE: PROVIDE FOR MAINTENANCE ACCESS TO FILTERS, WATER PIPING, DRAINS, FAN, MOTOR, ETC. COORDINATE LOCATION WITH GENERAL CONTRACTOR AND OTHER TRADES. MAINTAIN 3 DUCT DIAMETERS OF STRAIGHT DUCT ON BOTH THE SUPPLY AND RETURN DUCTS WHERE CONNECTED TO THE AHU.



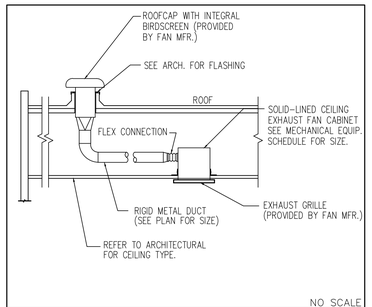
NO SCALE

AIR HANDLING UNIT 10



NO SCALE

BELT DRIVE ROOF EXHAUST FAN 11



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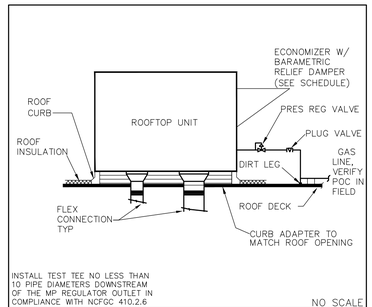
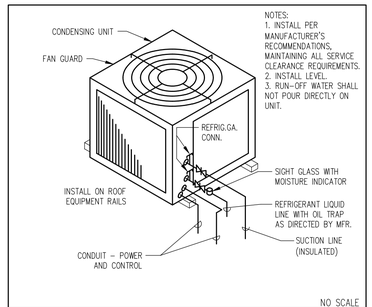
EXHAUST FAN DETAIL 12



INSTALL TEST TEE NO LESS THAN 10 PIPE DIAMETERS DOWNSTREAM OF THE MP REGULATOR OUTLET IN COMPLIANCE WITH NCFGC 410.2.6

NO SCALE

ROOF TOP UNIT WITH GAS HEAT 13



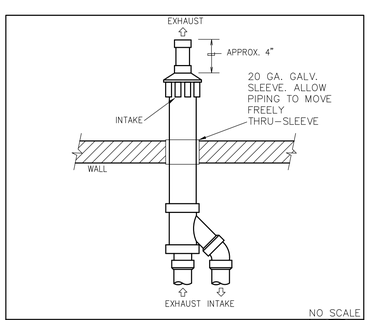
NOTES:
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS, MAINTAINING ALL SERVICE CLEARANCE REQUIREMENTS.
2. INSTALL LEVEL.
3. RUN-OFF WATER SHALL NOT POUR DIRECTLY ON UNIT.

NO SCALE

CONDENSING UNIT 14

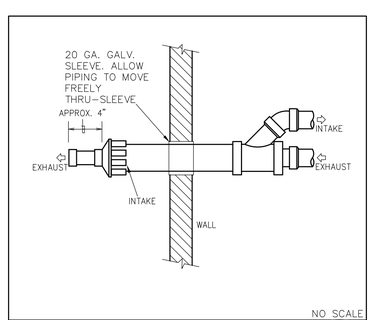
MECHANICAL LEGEND

	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
T	WALL MOUNTED THERMOSTAT
U	¾" DOOR UNDERCUT
	MANUAL VOLUME DAMPER
	BI-POLAR IONIZATION DEVICE (DUCT MOUNTED)
	TURNING VANES
SD	DUCT MOUNTED SMOKE DETECTOR
FD	DYNAMIC FIRE DAMPER
F/SD	DYNAMIC FIRE/SMOKE DAMPER
A/V	AUDIBLE/VISUAL ALARM
M	MOTOR OPERATED DAMPER (MOD)
	CEILING MOUNTED EXHAUST FAN
P	MANUAL HOOD PULL STATION



NO SCALE

CONCENTRIC TERMINATION 15



NO SCALE

SIDEWALL CONCENTRIC TERMINATION 16

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No.	Date	Description

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2015 MISHRA ARCHITECTURE PLLC

KEY PLAN

BAPS, Inc.
Reno□ation o□the S□ami Narayan Temple

2390 Green□ay Dri□e
□ackson, MS 39204

Dra□ing Title
Mechanical Details

Phase
Construction Documents

Pro□ect No.	12-072
Prepared by	CRM
Checked by	□DH
Date	April 3, 2017

Sheet No.
M002

Reno□ation o□the S□ami Narayan Temple

KITCHEN HOOD NOTES

1. KITCHEN EXHAUST DUCT TO BE CONSTRUCTED OF 16 GAUGE BLACK IRON W/CONTINUOUS EXTERNAL LIQUID-TIGHT WELDS
2. SLOPE EXHAUST DUCT 1" PER FOOT MINIMUM.
3. RADIUS THROAT AND ELBOW OF EXHAUST DUCT
4. OFFSETS WITH MINIMUM 6" INNER RADIUS PROVIDE CLEAN-OUTS PER CODE.
5. WRAP ENTIRE DUCT W/UL "FIRE MASTER" BY THERMAL CERAMICS, FROM HOOD EXHAUST TO FAN DISCHARGE WHERE REQ'D. FOR CLEARANCES PER CODE.
6. DUCT WRAP TO BE INSTALLED PER MFGR'S REQUIREMENTS AND UL CLASSIFICATION AND TESTS.
7. GC TO SPACE STRUCTURE TO ACCOMMODATE DUCTS W/ WRAP AS REQ'D. (MIN 18" CLEAR TO COMBUSTIBLES) & PROVIDE RATED CHASE W/RATED ACCESS DOOR AS REQ'D.
8. PROVIDE/PROTECT CLEAN-OUTS PER MFGR'S AND U.L. REQUIREMENTS.
9. PROVIDE WITH FACTORY PRE-WIRED MOTOR CONTROL PACKAGE.
10. INSTALL HOOD AT HEIGHT PER CODE & W/ GREASE FILTERS 3.5' ABOVE COOKING SURFACE W/OPEN FLAME, PER CODE
11. HOOD CAPTURE SIZE BASED UPON EQUIP. SCHEDULED TO BE UNDER HOOD PLUS MIN. 6" ON ALL EXPOSED SIDES PER CODE. FIELD VERIFY/COORD. HOOD SIZE & FANS CAPACITIES W/ACTUAL EQUIP. FURNISHED.
12. EXACT HOOD-DUCT CONNECTION & TRANSITION SIZES SHALL BE FULLY COORD. W/HOOD MFG. PRIOR TO FABRICATION
13. INSTALL REMOTE PULL STATION MIN. 10'-0" AND MAX. 20'-0" FROM HOOD. PULL STATION SHALL BE RATED WITH MAX. PULL PRESSURE OF 40 LBS. AND MAX. PULL MOVEMENT OF 14".
14. THE CONTRACTOR SHALL PROVIDE MANUFACTURER'S CUT CUT SHEETS, INSTALLATION DIAGRAMS, AND U.L. LISTING FOR HOOD FOR CODE REVIEW PRIOR TO INSTALLING OR ORDERING HOOD.

PROVIDED FEATURES:
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL 762 & UL 705
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION
- HIGH HEAT OPERATION (400°F)
- GREASE CLASSIFICATION TESTING:
- CSA APPROVED

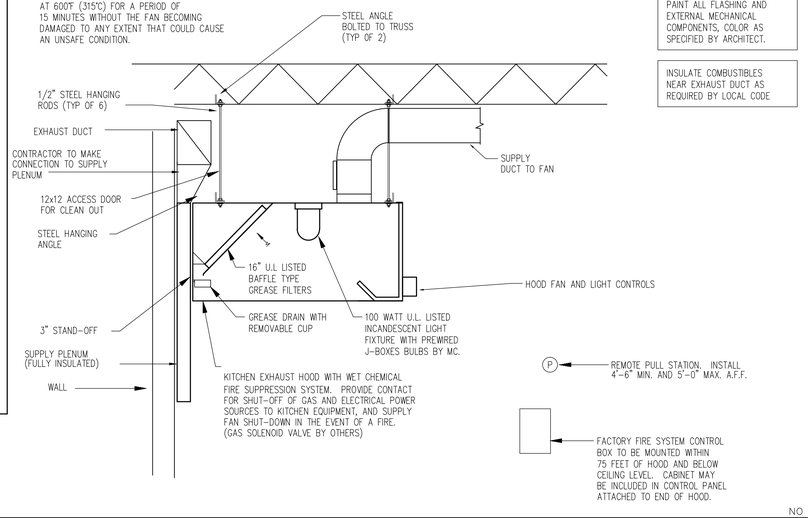
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 400°F (204°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (315°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

PROVIDED OPTIONS:
GREASE CUP
HINGED FAN
HASP KIT
PITCHED CURB
INSULATED CURB

KITCHEN HOOD FIRE SUPPRESSION SYSTEM

PROVIDE A PRE-ENGINEERED, WET CHEMICAL, CARTRIDGE OPERATED TYPE FIRE SUPPRESSION SYSTEM. IT SHALL BE A FIXED NOZZLE AGENT DISTRIBUTION NETWORK, AND SHALL BE UL LISTED. THE SYSTEM SHALL BE CAPABLE OF AUTOMATIC DETECTION AND REMOTE ACTUATION. THE SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 96 AND AUTHORITY HAVING JURISDICTION. DISCHARGE NOZZLES WILL PROVIDE COVERAGE OF, BUT NOT LIMITED TO, THE HOOD AREA AND EXHAUST DUCT. FURNISH ELECTRIC OPERATED SHUT OFF VALVE. THE SYSTEM SHALL BE AN ANSUL MODEL R-102 OR APPROVED EQUAL.



PAINT ALL FLASHING AND EXTERNAL MECHANICAL COMPONENTS, COLOR AS SPECIFIED BY ARCHITECT.

INSULATE COMBUSTIBLES NEAR EXHAUST DUCT AS REQUIRED BY LOCAL CODE

* REFER TO HOOD DETAILS ON KITCHEN EQUIPMENT PLANS FOR MORE INFO.

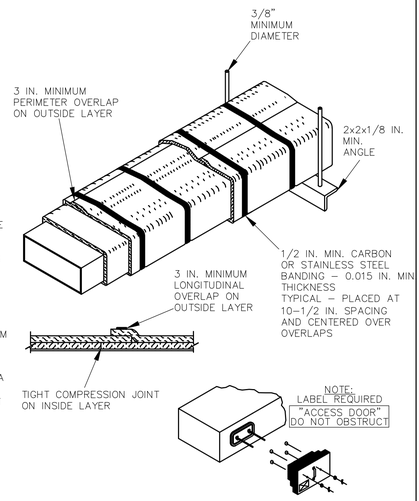
NO SCALE

KITCHEN HOOD DETAIL - SHOWN FOR REFERENCE ONLY

1

NOTES:

1. DUCT WRAP SHALL BE TESTED IN ACCORDANCE WITH ASTM E2336 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND MEETS THE REQUIREMENTS FOR ONE OR TWO HOUR ENCLOSURES. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH EITHER ASTM E 814 OR UL 1479. ICC-ES APPROVAL PER REPORT ESR 2213 OR ESR 2832. UNDERWRITER'S LABORATORIES (UL) LISTINGS SHOW COMPLIANCE TO UL 1479 FOR THROUGH PENETRATION FIRESTOP SYSTEMS.
2. MATERIALS AND INSTALLATION SHALL COMPLY WITH THE FOLLOWING CODES:
   1) NFPA 96
   2) INTERNATIONAL MECHANICAL CODES
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON INSIDE LAYER AND 3 INCH MINIMUM OVERLAPS ON BOTH PERIMETER AND LONGITUDINAL OVERLAPS ON OUTSIDE LAYER.
4. GREASE EXHAUST DUCT RUNS FROM THE HOOD EXHAUST CONNECTION UP TO THE EXHAUST FAN ON THE ROOF WITH MINIMAL TURNS OR BENDS AND MAINTAINING MINIMUM 1/4 UNIT VERTICAL RISE PER 12 UNITS HORIZONTAL RUN. NFPA 96 COMPLIANT ACCESS DOORS LOCATED AS REQUIRED BY CODE.
5. INSTALL ACCESS DOORS AS SPECIFIED IN ICC-ES BUILDING CODE REPORTS ESR 2213 OR ESR 2832.
6. ROOF MOUNTED EXHAUST FAN IS MOUNTED ON A HINGED BASE WHICH ALLOWS ACCESS TO THE DUCT FROM THE ROOF.
7. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE AT LEAST A MINIMUM OF 3/8 IN. DIAMETER. USE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
8. DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
9. DUCT WRAP SHALL BE INSTALLED ON THE DUCT FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
10. BASIS OF DESIGN – THERMAL CERAMICS FIREMASTER FASTWRAP XL (OR EQUAL)



Door System

NO SCALE

GREASE DUCT WRAP

2

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No.	Date	Description

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2015 MISHRA ARCHITECTURE PLLC

JOHN GRANBERY MISHRA REGISTERED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI 4-3-17

KEY PLAN

BAPS, Inc.
Reno□ation o□the S□ami Narayan Temple

2390 Green□ay Dri□e
□ackson, MS 39204

Dra□ing Title
Kitchen Hood Details

Phase
Construction Documents

Pro□ect No.	12-072
Prepared by	CRM
Checked by	□DH
Date	April 3, 2017

Sheet No.
M003

Reno□ation o□the S□ami Narayan Temple

VENTILATION CALCULATIONS

BASED ON TABLE 403.3 OF THE 2012 IMC

BASED ON EQUATION 4-1 FROM SECTION 403.3.1.1:
Vbz = RpPz + RaAz WHERE:
Az = ZONE FLOOR AREA
Pz = ZONE POPULATION
Rp = PEOPLE OUTDOOR AIR RATE
Ra = AREA OUTDOOR AIR RATE

CF-1

GREEN RM:

Vbz = (200 x 0.12) + 200 x 25 x 5 / 1000 = 74 CFM OA REQUIRED

Ez = 0.8 Voz = Vbz/Ev = 74/0.8 = 93 CFM

TOTAL OUTDOOR AIR REQUIRED = 92

TOTAL OUTDOOR AIR PROVIDED = 95

CF-2

SEE ASHRAE 62.1 BI-POLAR IONIZATION CALCULATIONS THIS SHEET

TOTAL OUTDOOR AIR REQUIRED = 30

TOTAL OUTDOOR AIR PROVIDED = 90

CF-3

BUSINESS CENTER:

Vbz = (105 x 0.06) + 105 x 5 x 5 / 1000 = 9 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 9/0.8 = 11 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 11/100 = .11

SHOES MEN/WOMEN:

Vbz = 300 x 0.06 = 18 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 18/0.8 = 23 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 23/350 = .07

CORRIDOR:

Vbz = 200 x 0.06 = 12 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 12/0.8 = 15 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 15/200 = .08

BEDROOM:

Vbz = (150 x 0.06) + 150 x 5 x 10 / 1000 = 17 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 17/0.8 = 21 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 21/160 = .13

MAKE-UP:

Vbz = (100 x 0.06) + 100 x 5 x 5 / 1000 = 9 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 9/0.8 = 11 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 11/100 = .11

THE HIGHEST Zp OF THE 5 ZONES IN THE SYSTEM IS .13; THEREFORE FROM TABLE 403.3.2.3.2 OF THE 2012 IMC, THE Ev FOR THE SYSTEM IS 1

Vou = D(SUM OF ALL ZONES) = 1(9 + 18 + 12 + 17 + 9) = 65

Vot = Vou/Ev = 65/1 = 65

TOTAL OUTDOOR AIR REQUIRED = 65

TOTAL OUTDOOR AIR PROVIDED = 90

CF-4

BEDROOM/LIVING:

Vbz = (500 x 0.06) + 500 x 5 x 10 / 1000 = 55 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 55/0.8 = 69 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 69/440 = .16

CONFERENCE:

Vbz = (200 x 0.06) + 200 x 5 x 50 / 1000 = 62 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 62/0.8 = 78 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 78/450 = .17

CORRIDOR:

Vbz = 200 x 0.06 = 12 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 12/0.8 = 15 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 15/200 = .08

GREEN RM:

Vbz = (200 x 0.12) + 200 x 25 x 5 / 1000 = 74 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 74/0.8 = 93 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 93/330 = .28

THE HIGHEST Zp OF THE 4 ZONES IN THE SYSTEM IS .28; THEREFORE FROM TABLE 403.3.2.3.2 OF THE 2012 IMC, THE Ev FOR THE SYSTEM IS 0.8

Vou = D(SUM OF ALL ZONES) = 1(55 + 62 + 12 + 74) = 203

Vot = Vou/Ev = 203/0.8 = 253

TOTAL OUTDOOR AIR REQUIRED = 253

TOTAL OUTDOOR AIR PROVIDED = 260

CF-5

STORE:

Vbz = (400 x 0.06) + 400 x 8 x 7.5 / 1000 = 48 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 48/0.8 = 60 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 60/350 = .17

OFFICES:

Vbz = (400 x 0.06) + 400 x 5 x 5 / 1000 = 34 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 34/0.8 = 43 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 43/325 = .13

THE HIGHEST Zp OF THE 2 ZONES IN THE SYSTEM IS .17; THEREFORE FROM TABLE 403.3.2.3.2 OF THE 2012 IMC, THE Ev FOR THE SYSTEM IS 0.9

Vou = D(SUM OF ALL ZONES) = 1(48 + 34) = 82

Vot = Vou/Ev = 82/0.9 = 91

TOTAL OUTDOOR AIR REQUIRED = 91

TOTAL OUTDOOR AIR PROVIDED = 100

KITCHEN:

EXHAUST ONLY

Vbz = 900 x 0.7 = 630 CFM EXHAUST REQUIRED

TOTAL EXHAUST PROVIDED = 8122

RTU-2

STORAGE:

Vbz = 1000 x 0.06 = 60 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 60/0.8 = 75 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 75/880 = .09

BEDROOM/LIVING ROOM:

Vbz = (475 x 0.06) + 475 x 5 x 10 / 1000 = 52 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 52/0.8 = 65 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 65/475 = .14

THE HIGHEST Zp OF THE 2 ZONES IN THE SYSTEM IS .14; THEREFORE FROM TABLE 403.3.2.3.2 OF THE 2012 IMC, THE Ev FOR THE SYSTEM IS 1.0

Vou = D(SUM OF ALL ZONES) = 1(60 + 52) = 112

Vot = Vou/Ev = 112/1 = 112

TOTAL OUTDOOR AIR REQUIRED = 112

TOTAL OUTDOOR AIR PROVIDED = 400

RTU-3

FOYER:

Vbz = (1000 x 0.06) + 1000 x 7.5 x 30 / 1000 = 285 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 285/0.8 = 356 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 356/1520 = .23

LIBRARY:

Vbz = (370 x 0.12) + 370 x 5 x 10 / 1000 = 63 CFM OA REQUIRED

Ev = 0.8 Voz = Vbz/Ev = 63/0.8 = 79 CFM
Zp = Voz/TOT. AIRFLOW IN SPACE = 79/520 = .15

THE HIGHEST Zp OF THE 2 ZONES IN THE SYSTEM IS .23; THEREFORE FROM TABLE 403.3.2.3.2 OF THE 2012 IMC, THE Ev FOR THE SYSTEM IS 0.9

Vou = D(SUM OF ALL ZONES) = 1(285 + 63) = 348

Vot = Vou/Ev = 348/0.9 = 387

TOTAL OUTDOOR AIR REQUIRED = 500

TOTAL OUTDOOR AIR PROVIDED = 500

RTU-4

STORAGE:

Vbz = 1500 x 0.06 = 90 CFM OA REQUIRED

Ez = 0.8 Voz = Vbz/Ev = 90/0.8 = 113 CFM

TOTAL OUTDOOR AIR REQUIRED = 113

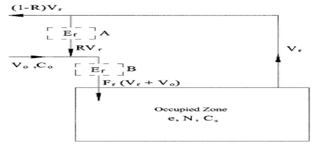
TOTAL OUTDOOR AIR PROVIDED = 300

BI-POLAR IONIZATION SCHEDULE - OUTSIDE AIR CALCULATIONS BASED ON ASHRAE 62.1

GLOBAL PLASMA SOLUTIONS
PHONE: 912-356-0115 EMAIL: INFO@GLOBALPLASMASOLUTIONS.COM

Zone Tag	Facility Type	Zone Use	Zone Floor Area (square ft) Az	Zone Max Occupancy Pz	Table 6.1 OA per Occupant Rp	Table 6.1 cfm/ft2 Ra	Pz * Rp	Az * Ra	Table 6.2 Ventilation Effectiveness Ez	Outdoor Air to Zone (CFM) with Ez correction (Vbz/Ez)
CF/CU-2	Public Assembly Spaces	Daycare (>= AGE 4)	370.0	9.0	7.5	0.18	68	67	0.8	168

Zone Height (feet)	9
Outside Air (Vo)	30
Supply Air (Vs)	600
Return Air (Vr)	570
Recirc. Flow Factor (R)	0.95
Ventilation Effectivenss (Ez)	0.8
Level of Physical Activty	Standing (desk work)
Filter Location	B
HVAC Flow Type	Constant
Outdoor Air Flow Type	Constant



Air Changes Per Hour	10.8	VRP OA CFM per person	18.6
Outside Air Per VRP	168 CFM	IAQ OA CFM per person	3.3
Outside Air Per IAQ	30 CFM		
Outside Air Savings	138 CFM		
OA Drybulb	95.0		
OA Wetbulb	80.0		
Coil Leaving Air Drybulb	55.0		
Coil Leaving Air Wetbulb	55.0		
OA MBH Saved*	#NAME?		
OA Tons Saved*	#NAME?		

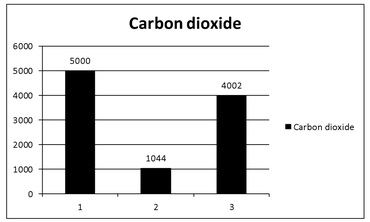
OA = Outside Air

Indoor Contaminants Generated By People	Maximum Threshold Value (PPM)**	Steady State Using the VRP* (Prescribed OA) Plasma Off	Steady State Using the IAQ Method (Reduced OA) Plasma On	Is Steady State Level Acceptable at Reduced OA Levels?
Acetaldehyde	20.0	0.0154	0.0015	Yes
Acetone	19.0	0.0601	0.0006	Yes
Ammonia	2.50	1.9331	0.0127	Yes
Benzene	0.1000	0.0045	0.0005	Yes
2- Butanone (MEK)	10.0	0.0121	0.0002	Yes
Carbon dioxide	5000	1044	4002	Yes
Chloroform	0.2000	2.6200	0.0001	Yes
Dioxane	100.0	0.0996	0.0000	Yes
Hydrogen Sulfide	20.0	0.0022	0.0000	Yes
Methane	NA	0.2120	1.6898	Yes
Methanol	200.0	0.0007	0.0000	Yes
Methylene Chloride	50.0	0.0134	0.0006	Yes
Propane	100.0	0.0165	0.0100	Yes
Tetrachloroethane	35 mg/m3	0.0002	0.0000	Yes
Tetrachloroethylene	2.5000	0.0072	0.0001	Yes
Toluene	2.0000	0.0029	0.0006	Yes
1,1,1 - Trichloroethane	0.2000	1.6861	0.0001	Yes
Xylene	0.4000	0.0000	0.0003	Yes

All values are in PPM unless otherwise noted

All shaded boxes require user input or review

Is IAQ acceptable at reduced outside air levels?	Yes



1 = ASHRAE C02 Limit
2 = C02 Level at Ventilation Rate OA Flow Rate
3 = C02 Level at IAQ Procedure OA Flow Rate

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BI-POLAR IONIZATION SCHEDULE

SYMBOL	LOCATION	SA FLOW CFM	OSA FLOW CFM	QUANTITY	PRESSURE DROP	VOLTAGE	WATTS	MANUFACTURER/MODEL GLOBAL PLASMA SOLUTIONS	REMARKS
BPI-1	DAYCARE	600	50	1	0.05"W.C.	24VAC	0.24	GPS-RN	1-7

NOTES & ACCESSORIES:
1. PROVIDE AUTO-ELECTRONIC FLOW SENSING.
2. PROVIDE IAQ-2 CALCULATION. PRESCRIPTIVE PROCEDURE WILL NOT BE ALLOWED.
3. OZONE DETECTABLE SYSTEM WILL NOT BE ALLOWED.
4. SYSTEM WILL BE MAINTENANCE FREE. NO REPLACMENT COMPONENT SYSTEMS ALLOWED.
5. ALL MANUFACTURERS MUST PASS UL 867-2007 OZONE CHAMBER TESTING BY EITHER UL OR ETL.
6. POWERED PATICULATE FILERS, POLARIZED MEDIA FILTERS, UNI-POLAR ION GENERATORS, PLASMA PARTICULATE FILTERS WITH UV SYSTEMS, AND BI-POLAR IONIZATION SYSTEMS REQUIRING PERISHABLE GLASS TUBES WILL NOT BE ACCEPTABLE.
7. PROVIDE TRANSFORMER AS REQUIRED FOR VOLTAGE REQUESTED. COORDINATE WITH ELECTRICAL CONTRACTOR.

EQUAL PRODUCTS: AIRGENICS & BIOXYGEN

AIR BALANCE SUMMARY

UNIT NO.	SUPPLY	RETURN	OUTSIDE AIR	EXHAUST AIR	+/- CFM
RTU-1	3000	2250	750	-	+750
RTU-2	1600	1200	400	-	+400
RTU-3	2000	1500	500	-	+500
RTU-4	1200	900	300	-	+300
EXIST RTU	1600	1200	400	-	+400
EXIST RTU	1600	1200	400	-	+400
CU-1	600	505	95	-	+95
CU-2	800	710	90	-	+90
CU-3	1600	1510	90	-	+90
CU-4	1600	1340	260	-	+260
CU-5	800	700	100	-	+100
KEF-1	-	-	-	4972	-4972
KEF-2	-	-	-	3150	-3150
KSF-1	3978	-	3978	-	+3978
KSF-2	2520	-	2520	-	+2520
EF-1	-	-	-	100	-100
EF-2	-	-	-	100	-100
EF-3	-	-	-	100	-100
EF-4	-	-	-	490	-490
EF-5	-	-	-	400	-400
EF-6	-	-	-	100	-100
EF-7	-	-	-	100	-100
EF-8	-	-	-	100	-100
EF-9	-	-	-	250	-250
TOTALS	22898	13015	9883	9862	+21

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JOHN DEAN MISHRA
REGISTERED
ENGINEER
20706
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KEY PLAN

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Outside Air Calculations

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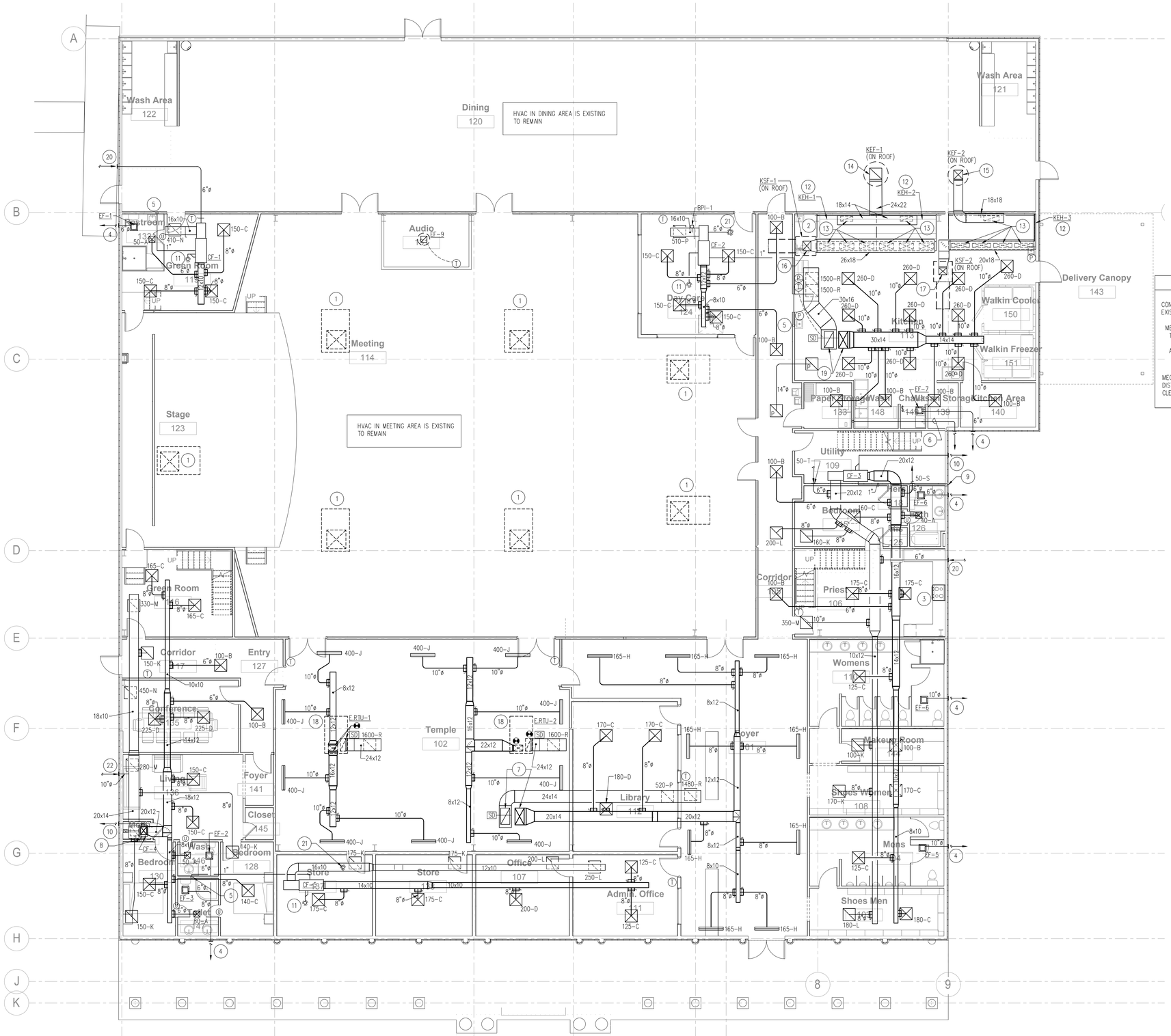

MECHANICAL 1ST FLOOR PLAN

1 / M101 SCALE: 1/8" = 1'-0"

DEMOLITION NOTES

CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL EXISTING DUCTWORK AND GRILLES IN THE SPACE AS REQUIRED FOR THIS RENOVATION.

MECHANICAL CONTRACTOR MAY REUSE EXISTING DUCTWORK IF DUCTWORK IS FOUND TO BE SAME SIZE AS SIZE INDICATED ON NEW PLANS. ALL DUCTWORK SHALL BE INSPECTED TO ENSURE IT IS AIRTIGHT, CLEANED AND INSULATED IN A CODE APPROVED MANNER. ANY DUCTWORK NOT FOUND IN PROPER WORKING CONDITION SHALL BE REPLACED WITH NEW.

MECHANICAL CONTRACTOR MAY REUSE EXISTING AIR DISTRIBUTION IF EXISTING AIR DISTRIBUTION HAS THE SAME NECK SIZE AS LISTED ON AIR DISTRIBUTION SCHEDULE, CLEAN AND REPLACE OR RELOCATE. ALL AIR DISTRIBUTION SHALL MATCH.

MECHANICAL KEYED NOTES

1. EXISTING ROOF TOP UNIT TO REMAIN.
2. REPLACE EXISTING KITCHEN HOOD WITH NEW HOOD AND NEW EXHAUST AND MAKE-UP AIR FANS ON ROOF ABOVE.
3. RECIRCULATING TYPE KITCHEN HOOD BY OTHERS.
4. FAN MFR. WALL CAP.
5. ROUTE 1" CONDENSATE DOWN IN WALL AND TIE INTO SINK TAILPIECE.
6. DRYER VENT TO MFR. WALL CAP. SIZE PER MFR'S RECOMMENDATIONS.
7. SUPPLY AND RETURN DUCTWORK UP TO RTU-3. DUCTWORK SHALL BE FULL UNIT CONNECTION SIZE.
8. ROUTE 1" CONDENSATE TO FLOOR DRAIN. FLOOR DRAIN BY P.C.
9. ROUTE 1" CONDENSATE DOWN IN WALL AND OUT OF BUILDING AT 12"AFG. PROVIDE SPLASH BLOCK.
10. CONCENTRIC VENT THRU WALL TO CODE AND MFR. APPROVED DISCHARGE CAP. SIZE PER MFR'S RECOMMENDATIONS.
11. CONCENTRIC VENT THRU ROOF TO CODE AND MFR. APPROVED DISCHARGE CAP. SIZE PER MFR'S RECOMMENDATIONS.
12. KITCHEN HOOD & ASSOCIATED FANS PROVIDED BY OTHERS & INSTALLED BY M.C. SEE SHEET MK100 FOR INFO.
13. CONTRACTOR SHALL MAKE ALL TRANSITIONS & CONNECTIONS AS NECESSARY FOR PROPER INSTALLATION & OPERATION OF HOOD SYSTEM. CONTRACTOR SHALL FIELD VERIFY ALL HOOD OPENINGS PRIOR TO DUCT FABRICATION.
14. FULL UNIT CONNECTION SIZE EXHAUST DUCTWORK UP TO KEF-1 ON ROOF.
15. FULL UNIT CONNECTION SIZE EXHAUST DUCTWORK UP TO KEF-2 ON ROOF.
16. FULL UNIT CONNECTION SIZE MAKE UP AIR DUCTWORK UP TO KSF-1 ON ROOF.
17. FULL UNIT CONNECTION SIZE MAKE-UP AIR DUCTWORK UP TO KSF-2 ON ROOF.
18. EXISTING 4 TON RTU TO REMAIN. ALL REPAIRS AND DEFICIENCIES SHALL BE BY LANDLORD. BALANCE SUPPLY AIR TO 1,600 CFM AND OUTSIDE AIR TO 400 CFM. CLEAN AND INSPECT EXISTING HVAC SYSTEM TO ENSURE DESIGN CAPACITIES ARE OBTAINED, AND REPLACE OR REPAIR ANY EQUIPMENT AS REQUIRED FOR PROPER WORKING ORDER. ALSO INSPECT EXISTING EQUIPMENT TO ENSURE ALL ACCESSORIES MEET ALL STATE AND LOCAL CODES AND REPAIR/REPLACE AS REQUIRED. M.C. SHALL VERIFY A DUCT SMOKE DETECTOR IS INSTALLED IN THE RETURN DUCTWORK OF THE RTU. PROVIDE AND INSTALL RAWAL APR VALVE, COMPLETE WITH ALL EQUIPMENT AND CONTROL WIRING AS REQUIRED FOR A WORKING SYSTEM.
19. SUPPLY AND RETURN DUCTWORK UP TO RTU-1. DUCTWORK SHALL BE FULL UNIT CONNECTION SIZE.
20. GREENHECK WC-6 WALL CAP. PROVIDE W/ INSECT SCREEN.
21. 6"ø MAKE-UP AIR DUCT UP TO GREENHECK RCC-7 ROOF CAP. PROVIDE W/ ROOF CURB AND BIRD SCREEN.
22. GREENHECK WC-18x8 HOODED WALL CAP. PROVIDE W/ INSECT SCREEN.

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KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

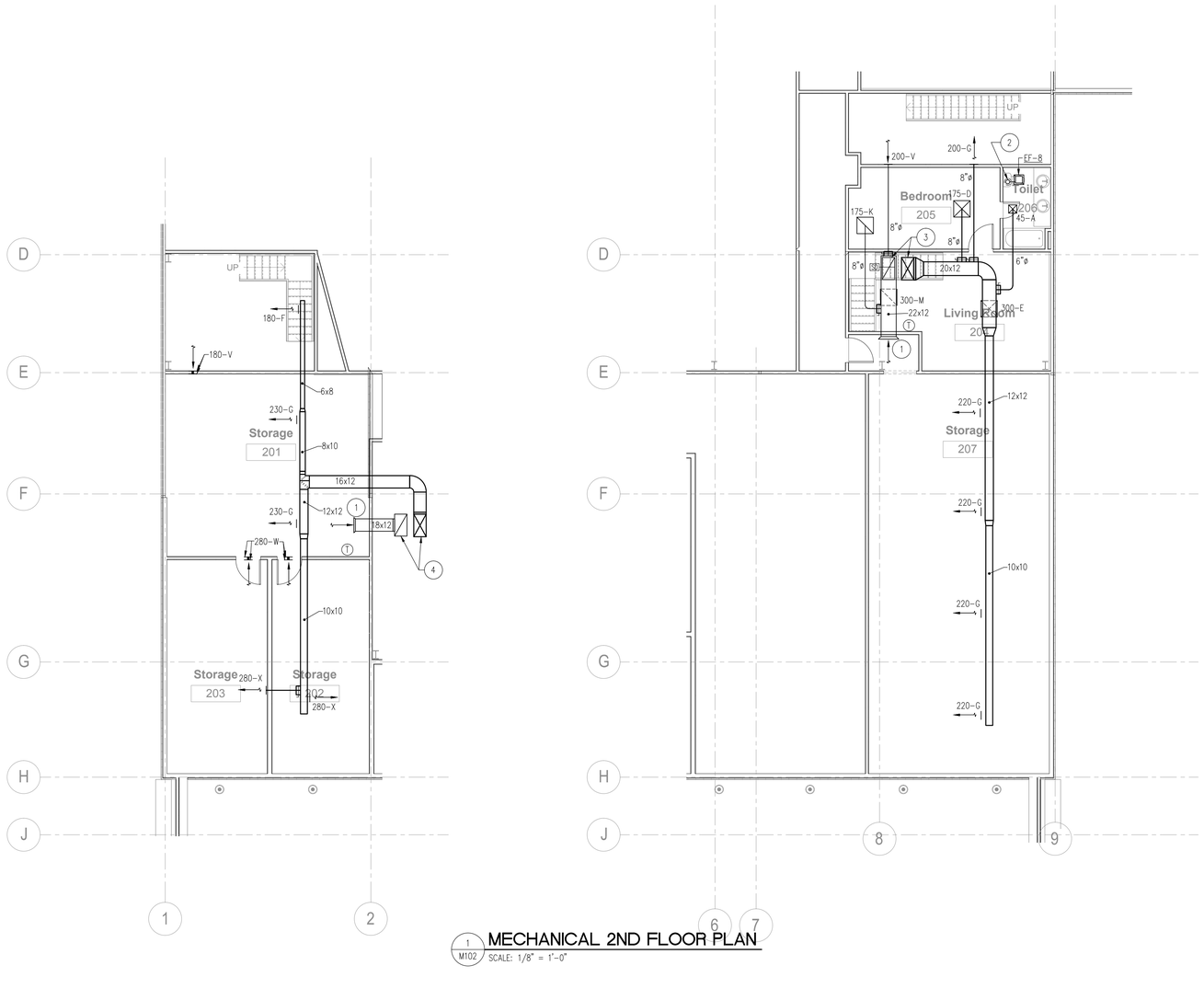
Drawing Title
Mechanical Floor Plan

Phase
Construction Documents

Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
M101

Renovation of the Swami Narayan Temple



1 M102 MECHANICAL 2ND FLOOR PLAN

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

MECHANICAL KEYED NOTES

1. OPEN ENDED DUCT COVERED W/ WELDED WIRE MESH.
2. 6"ø EXHAUST UP TO GREENHECK RCC-7 ROOF CAP. PROVIDE W/ ROOF CURB AND BIRD SCREEN.
3. SUPPLY AND RETURN DUCTWORK UP TO RTU-2. DUCTWORK SHALL BE FULL UNIT CONNECTION SIZE.
4. SUPPLY AND RETURN DUCTWORK UP TO RTU-4. DUCTWORK SHALL BE FULL UNIT CONNECTION SIZE.

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KEY PLAN

BAPS, Inc. Reno ation o the S ami Narayan Temple

2390 Green ay Dri e
ackson, MS 39204

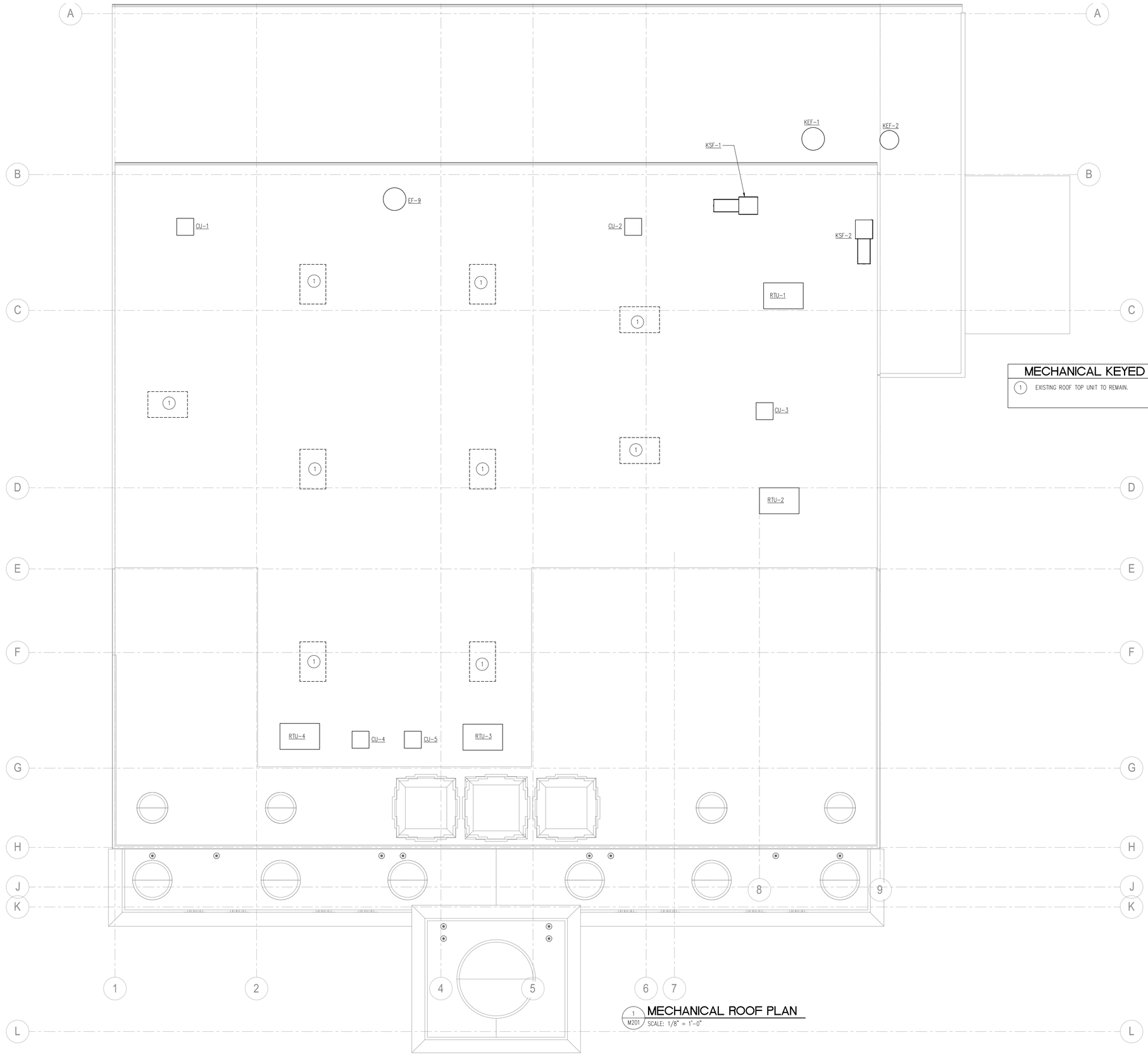
Dra ing Title
Mechanical 2nd Floor Plan

Phase
Construction Documents

Pro ect No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
M102

Reno ation o the S ami Narayan Temple



MECHANICAL KEYED NOTES

1 EXISTING ROOF TOP UNIT TO REMAIN.

1 M201 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

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KEY PLAN

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Reno ation o the S ami Narayan Temple

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M201

Reno ation o the S ami Narayan Temple

HOOD INFORMATION – JOB#2956184

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	EXHAUST PLENUM RISER(S) TOTAL EXH. CFM	WIDTH	LENG.	HEIGHT	DIA.	CFM	S.P.	TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFIG. END TO END	ROW
1	KEH–1	5424 ND–2–PSP–F	9' 9.00"	600 DEG.	2486	10"	24"	4"		2486	–0.801"	1989	430 SS WHERE EXPOSED	LEFT	ALONE
2	KEH–2	5424 ND–2–PSP–F	9' 9.00"	600 DEG.	2486	10"	24"	4"		2486	–0.801"	1989	430 SS WHERE EXPOSED	RIGHT	ALONE
3	KEH–3	5424 ND–2–PSP–F	14' 0.00"	450 DEG.	3150	10"	30"	4"		3150	–0.809"	2520	430 SS WHERE EXPOSED	ALONE	ALONE

PATENT NUMBERS

AC–PSP (UNITED STATES) – US PATENT 7963830 B2
AC–PSP WALL (CANADA) – CA PATENT 2820509
AC–PSP ISLAND (CANADA) – CA PATENT 2520330

HOOD INFORMATION

HOOD NO.	TAG	FILTER(S) TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 9 MICRONS	LIGHT(S) QTY.	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WGHT
1		CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC.	3	L55 SERIES E26	NO	WALL MNT	12"X48"X24"	ANSUL R102	3.0/3.0/3.0			YES	622 LBS
2		CAPTRATE SOLO FILTER	7	20"	16"	85% SEE FILTER SPEC.	3	L55 SERIES E26	NO							YES	621 LBS
3		CAPTRATE SOLO FILTER	10	20"	16"	85% SEE FILTER SPEC.	4	L55 SERIES E26	NO							YES	732 LBS

HOOD OPTIONS

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 18.00" HIGH FRONT, LEFT
		BACKSPLASH 80.00" HIGH X 234.00" LONG 430 SS VERTICAL
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS
2		FIELD WRAPPER 18.00" HIGH FRONT, RIGHT
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS
3		FIELD WRAPPER 18.00" HIGH FRONT, LEFT
		BACKSPLASH 80.00" HIGH X 171.00" LONG 430 SS VERTICAL
		RIGHT END STANDOFF 3" WIDE 54" LONG INSULATED
		RIGHT SIDESPLASH 80.00" HIGH X 54.00" LONG 430 SS VERTICAL
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS

PERFORATED SUPPLY PLENUM(S)

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG.	DIA.	CFM	S.P.
1		FRONT	117"	18"	6"	MUA	12"	28"		663	0.167"
						MUA	12"	28"		663	0.167"
						MUA	12"	28"		663	0.167"
2		FRONT	117"	18"	6"	MUA	12"	28"		663	0.167"
						MUA	12"	28"		663	0.167"
						MUA	12"	28"		663	0.167"
3		FRONT	171"	16"	6"	MUA	8"	36"		630	0.177"
						MUA	8"	36"		630	0.177"
						MUA	8"	36"		630	0.177"
						MUA	8"	36"		630	0.177"

FOR REFERENCE ONLY

SPECIFICATION: CAPTRATE GREASE–STOP SOLO FILTER

THE CAPTRATE GREASE–STOP SOLO FILTER IS A SINGLE–STAGE FILTER FEATURING A UNIQUE S–BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

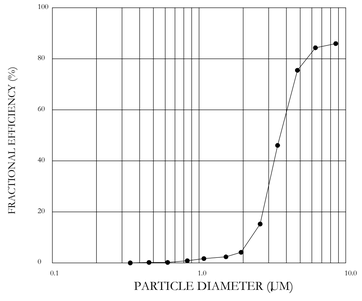
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2–INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

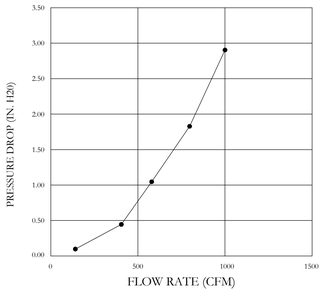
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES NINE MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE–STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519–05.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:.
NFPA #96
NSF STANDARD #2
UL STANDARD #1046
INT. MECH. CODE (IMC)
ULC–S649

BUILT IN ACCORDANCE WITH NFPA NO. 96

CAPTIVE-AIRE

JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	JOB # 2956184
DWG # 1	DRAWN BY ASE
REV.	SCALE 3/8" = 1'–0"

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20706
4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

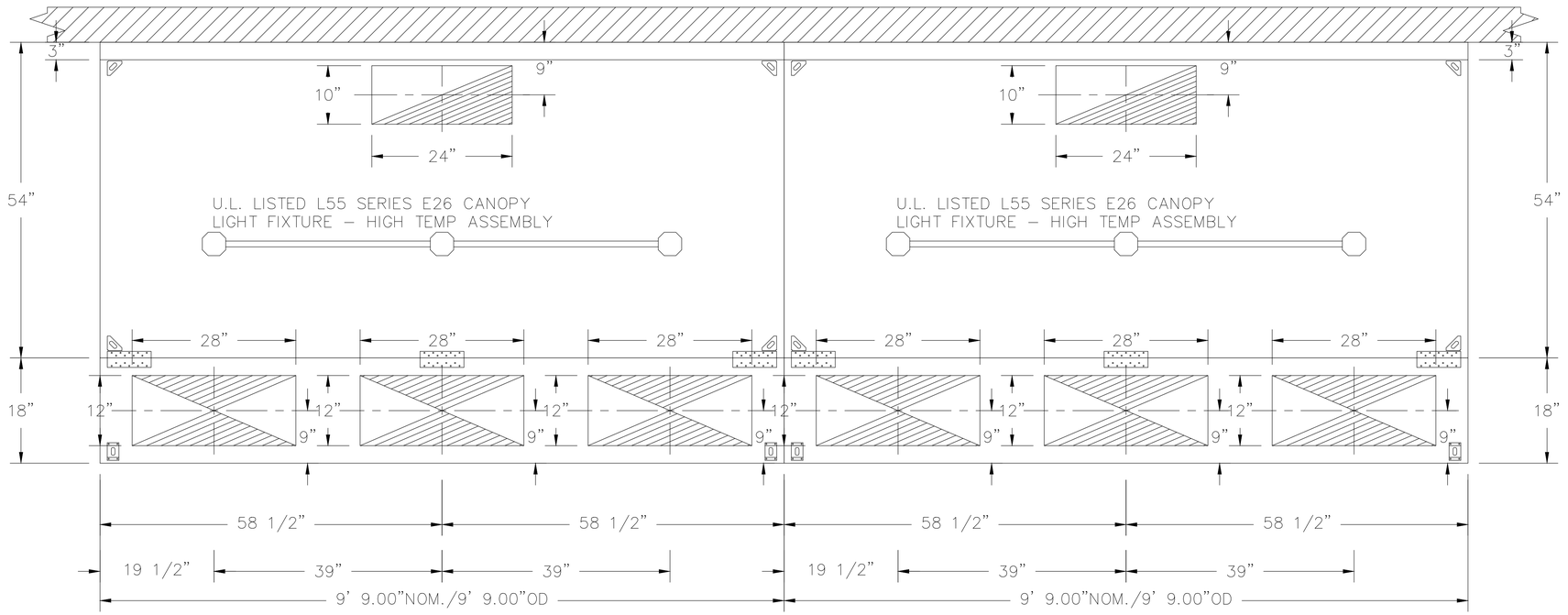
Drawing Title
Kitchen Hood and Equipment Plans

Phase
Construction Documents

Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MK100

Renovation of the Swami Narayan Temple



PLAN VIEW – HOOD #1
9' 9.00" LONG 5424ND-2-PSP-F

PLAN VIEW – HOOD #2
9' 9.00" LONG 5424ND-2-PSP-F

FOR REFERENCE ONLY

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JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	JOB # 2956184
DWG # 2	DRAWN BY ASE
REV.	SCALE 3/8" = 1'-0"

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20706
STATE OF MISSISSIPPI
4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

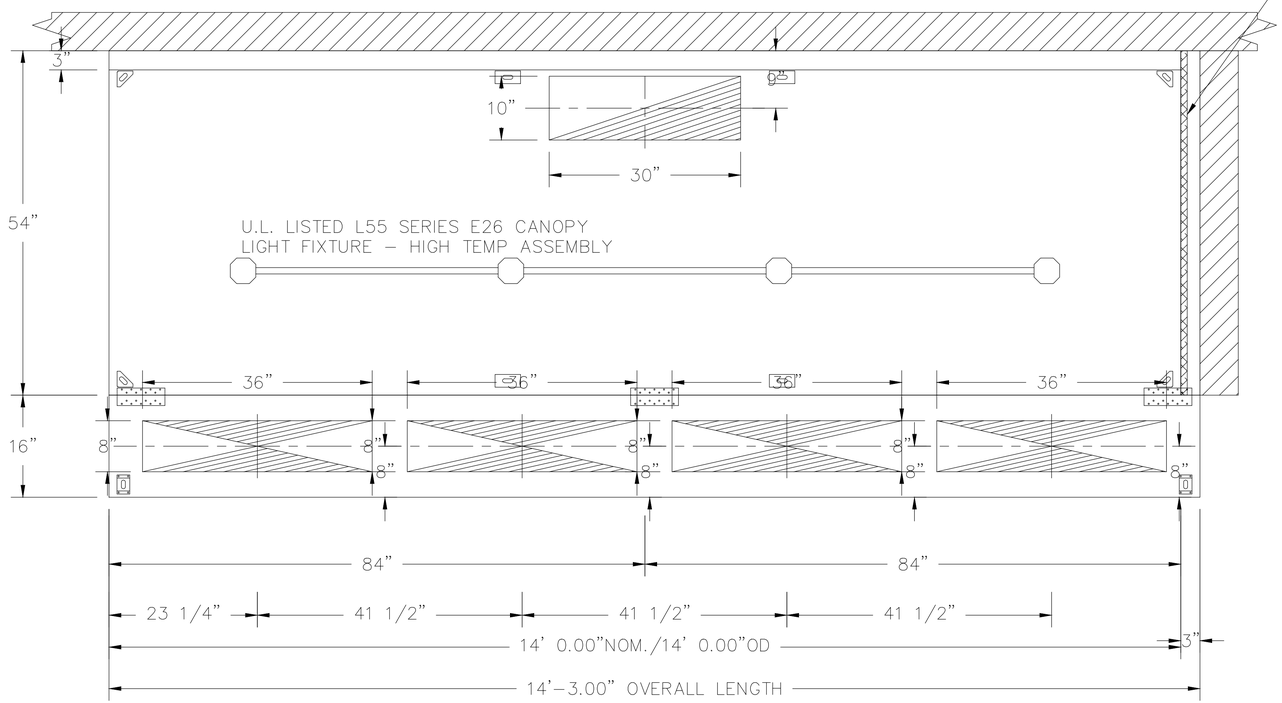
Drawing Title
Kitchen Hood and Equipment Plans

Phase
Construction Documents

Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MK101

Renovation of the Swami Narayan Temple

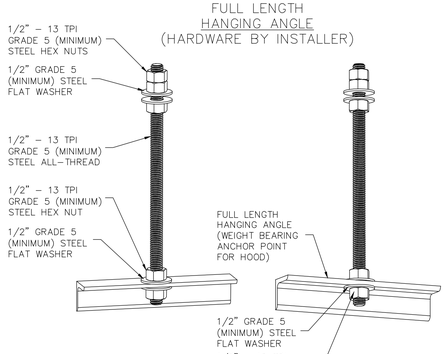


PLAN VIEW – HOOD #3
14' 0.00" LONG 5424ND–2–PSP–F

NOTE: ADDITIONAL HANGING ANGLES PROVIDED FOR HOODS 12' AND LONGER.

FOR REFERENCE ONLY

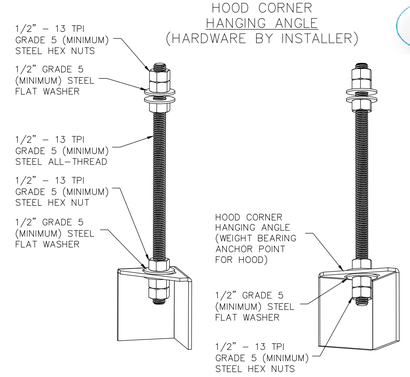
FULL LENGTH
HANGING ANGLE
(HARDWARE BY INSTALLER)



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" – 13 TPI GRADE 5 (MINIMUM) ALL–THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" – 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT–LBS.

HOOD CORNER
HANGING ANGLE
(HARDWARE BY INSTALLER)



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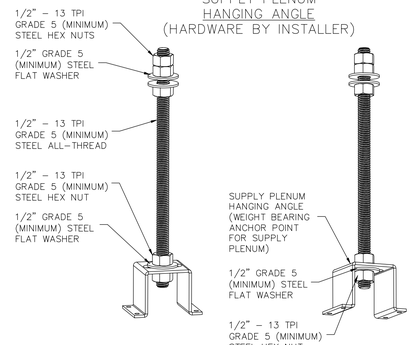
SUPPLY PLENUM
HANGING ANGLE
(HARDWARE BY INSTALLER)



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BUILT IN ACCORDANCE WITH NFPA NO. 96

JOB SWAMI NARAYAN TEMPLE		
LOCATION JACKSON, MS, 39204		
DATE 3/20/2017	JOB # 2956184	
DWG # 3	DRAWN BY ASE	
REV.	SCALE 3/8" = 1'–0"	

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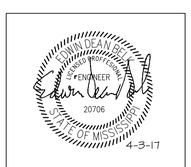

KEY PLAN

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Reno:ation o:the S:ami Narayan Temple

2390 Green:ay Dri:e
:ackson, MS 39204

Dra:ing Title
Kitchen Hood and Equipment Plans

Phase
Construction Documents

Pro:ect No.	12-072
Prepared by	CRM
Checked by	:DH
Date	April 3, 2017

Sheet No.
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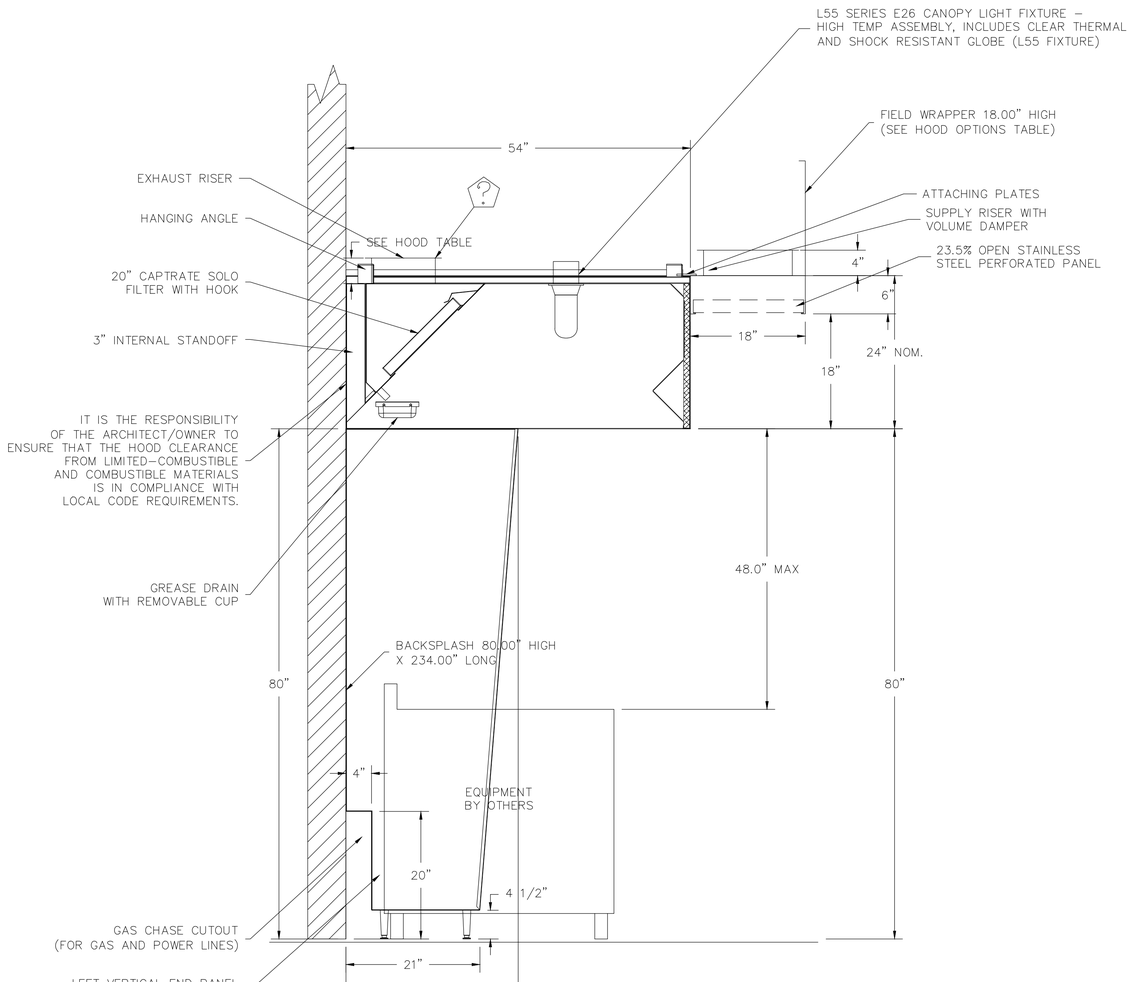
Reno:ation o:the S:ami Narayan Temple



SECTION VIEW – MODEL 5424ND-2-PSP-F HOOD – #1

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CAPTIVE-AIRE

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LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	*JOB #* 2956184
DWG # 4	*DRAWN BY* ASE
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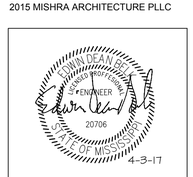

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

Phase
Construction Documents

Project No.	12-072
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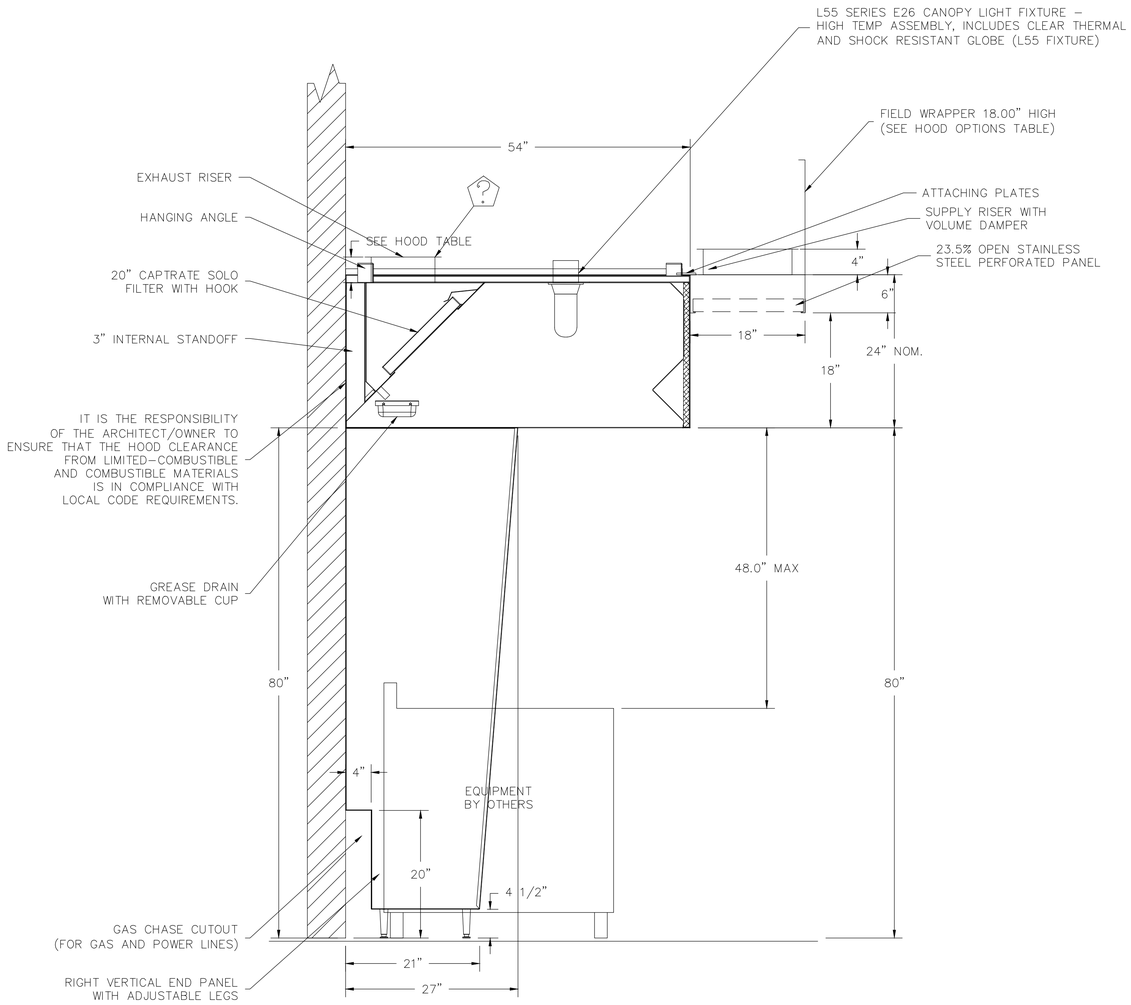
Checked by	DH
Date	April 3, 2017

Sheet No.
MK103

Renovation of the Swami Narayan Temple



SECTION VIEW – MODEL 5424ND-2-PSP-F HOOD – #2

FOR REFERENCE ONLY

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CAPTIVE-AIRE

JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	*JOB #* 2956184
DWG # 5	*DRAWN BY* ASE
REV.	*SCALE* 3/8" = 1'-0"

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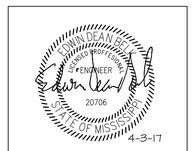

KEY PLAN

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Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

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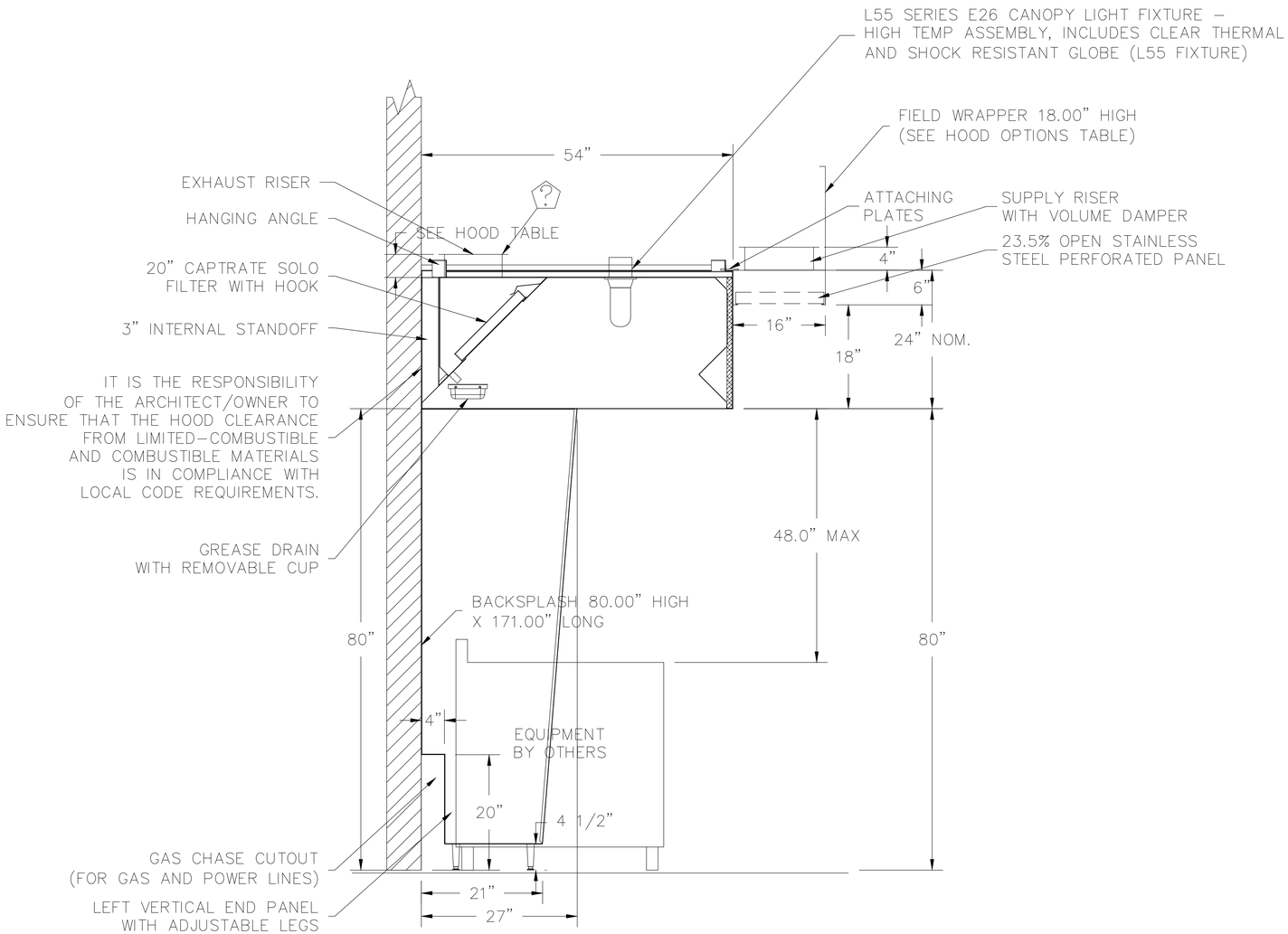
MK104

Renovation of the Swami Narayan Temple



SECTION VIEW – MODEL 5424ND-2-PSP-F
HOOD – #3

FOR REFERENCE ONLY

BUILT IN ACCORDANCE WITH NFPA NO. 96

CAPTIVE-AIRE

JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	*JOB #* 2956184
DWG # 6	*DRAWN BY* ASE
REV.	*SCALE* 3/8" = 1'-0"

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REVISIONS		
No.	Date	Description

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JOHN DEAN BELK NUMBER 20706 REGISTERED PROFESSIONAL ENGINEER STATE OF MISSISSIPPI 4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

Phase
Construction Documents

Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MK105

Renovation of the Swami Narayan Temple

FIRE SYSTEM INFORMATION – JOB#2956184

FIRE SYSTEM NO.	TAG	TYPE	SIZE	FLOW POINTS	INSTALLATION	
					SYSTEM	LOCATION ON HOOD
1		ANSUL R102	3.0/3.0/3.0	10	WALL MOUNT LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO.	TAG	TYPE	SIZE	SUPPLIED BY
1		MECHANICAL	2.000	DISTRIBUTOR

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO.	TAG	KEY NUMBER – PART DESCRIPTION	QTY. BY FACTORY	QTY. BY DIST.
1		0 – 0 – 43–15733 AIR CYLINDER ASSEMBLY – AIR CYLINDER AND TUBING FOR MECHANICAL GAS VALVES (ANSUL PART #15733)	0	1
		1 – 1 – AT – 3.0 TANK(#1B) – 3.0 GALLON SS TANK (FOR USE WITH AUTOMAN RELEASE, ACTUATOR, OR SS ENCLOSURE (UL/ULC)) MACOLA # 01–429862	3	0
		3 – 3 – ANS–OEM REGULATED RELEASE – ANSUL REGULATED MECHANICAL RELEASE/BRACKET ASSEMBLY, OEM, R–102, CARTRIDGE DETECTION INCLUDED, ANSUL PART # 79493	1	0
		5 – 5 – LIQ–3.0 AGENT – ANSULEX LOW PH WET CHEMICAL AGENT, 3 GALLON (UL) 79372	0	3
		9 – 9 – DT–CART DOUBLE TANK NITROGEN CARTRIDGE	0	1
		10 – 10 – TLINK LINK – TEST LINK (1 TEST LINK) ANSUL PART # 24916, MACOLA # 20–24916	0	1
		11 – 11 – MICRO–SDA MICROSWITCH KIT– INCLUDES 2 SWITCVHES AND MOUNTING HARDWARE. SINGLE DUAL ELECTRIC SWITCH, ONE STANDARD SWITCH, ONE ALARM DUTY SWITCH ANSUL PART # 437155, MACOLA # 08–437155	1	0
		12 – 12 – HOSE HOSE – RUBBER HOSE	2	0
		27 – 27 – QPSA–1/2 PULLEY SEAL – 1/2" HOOD SEAL (UL) ANSUL PART # 423253, MACOLA # 32–79768	7	0
		34 – 34 – RPS–A REMOTE PULL STATION – RED COMPOSITE (WITHOUT WIRE ROPE) 434618 (OLD MACOLA #06–4835)	1	0
		35 – 35 – PE–LT PULLEY ELBOW – LOW TEMP. PULLEY ELBOW, SET SCREW TYPE ANSUL PART # 415670, MACOLA # 11–415671	5	10
		36 – 36 – PE–HT PULLEY ELBOW – HIGH TEMP PULLEY ELBOW, COMPRESSION TYPE, ANSUL PART # 423251, MACOLA # 10–45771	6	0
		ADDITIONAL PARTS TO BE DETERMINED...		

FOR REFERENCE ONLY

BUILT IN ACCORDANCE WITH NFPA NO. 96

CAPTIVE-AIRE

JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	JOB # 2956184
DWG # 7	DRAWN BY ASE
REV.	SCALE 3/8" = 1'–0"

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KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

Phase
Construction Documents

Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MK106

Renovation of the Swami Narayan Temple

EXHAUST FAN INFORMATION – JOB#2956184

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
1	KEF-1	DU240HFA	4972	2.000	1014	5.000	3.2770	3	208	15.8	301	21
3	KEF-2	DU180HFA	3150	1.450	1334	2.000	1.2570	3	208	6.1	156	20

MUA FAN INFORMATION – JOB#2956184

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	ø	VOLT	FLA	WEIGHT (LBS.)	SONES
2	KSF-1	A2-G15	G15-PB	A2	3978	0.650	651	1.500	1.1650	3	208	4.6	353	11.4
4	KSF-2	A2-G12	G12	A2	2520	0.550	679	0.750	0.5210	3	208	2.5	318	16.4

FAN OPTIONS

FAN UNIT NO.	TAG	OPTION (QTY. – DESCR.)
1		1 – GREASE BOX
3		1 – GREASE BOX

FAN ACCESSORIES

FAN UNIT NO.	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
3		YES						

CURB ASSEMBLIES

NO.	ON FAN	WEIGHT	ITEM	SIZE
1	# 1	48 LBS	CURB	31.500"W X 31.500"L X 20.000"H 3.000:12.000 PITCH VENTED HINGED
2	# 2	42 LBS	CURB	31.000"W X 37.000"L X 20.000"H 3.000:12.000 PITCH ALONG WIDTH, RIGHT INSULATED
3	# 3	41 LBS	CURB	26.500"W X 26.500"L X 20.000"H 3.000:12.000 PITCH VENTED HINGED
4	# 4	42 LBS	CURB	31.000"W X 37.000"L X 20.000"H 3.000:12.000 PITCH ALONG WIDTH, RIGHT INSULATED

FOR REFERENCE ONLY

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CAPTIVE-AIRE

JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	JOB # 2956184
DWG # 8	DRAWN BY ASE
REV.	SCALE 3/8" = 1'-0"

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COUNTY OF MADISON LICENSED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI 4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

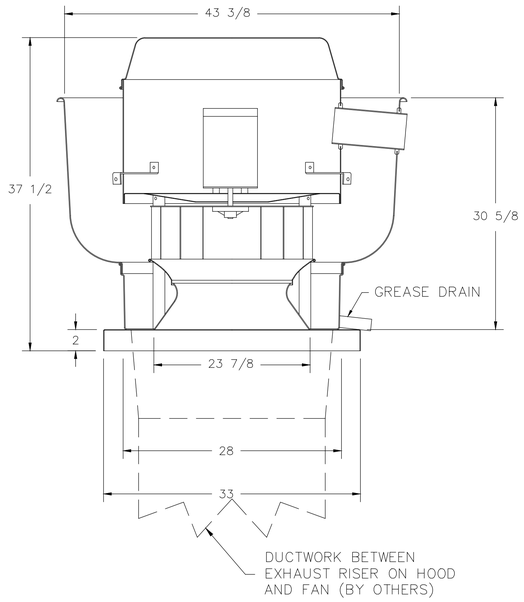
Phase
Construction Documents

Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MK107

Renovation of the Swami Narayan Temple

FAN #1 DU240HFA – EXHAUST FAN



FEATURES:

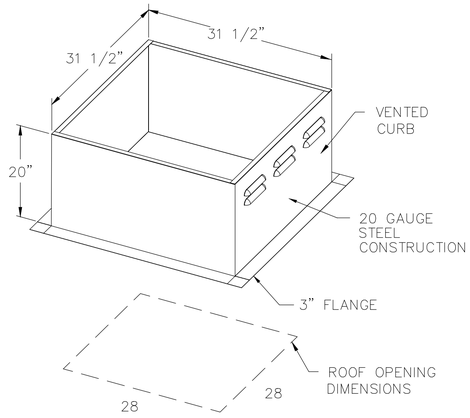
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

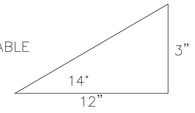
ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

GREASE BOX



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.



SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

FOR REFERENCE ONLY

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BUILT IN ACCORDANCE WITH NFPA NO. 96

CAPTIVE-AIRE

JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	JOB # 2956184
DWG # 9	DRAWN BY ASE
REV.	SCALE 3/8" = 1'-0"

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KEY PLAN

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Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

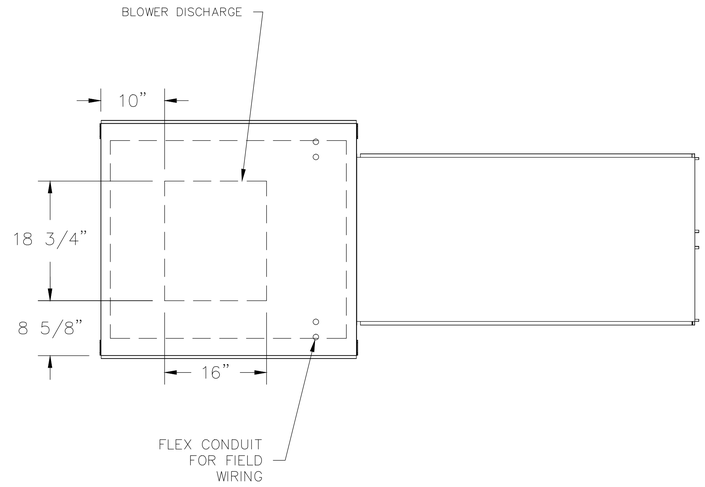
Phase
Construction Documents

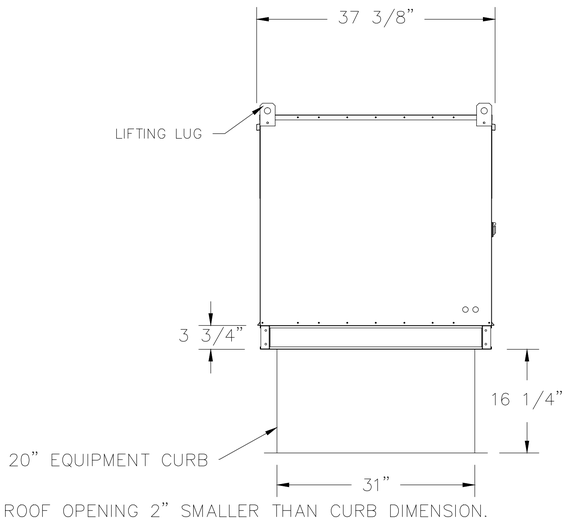
Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

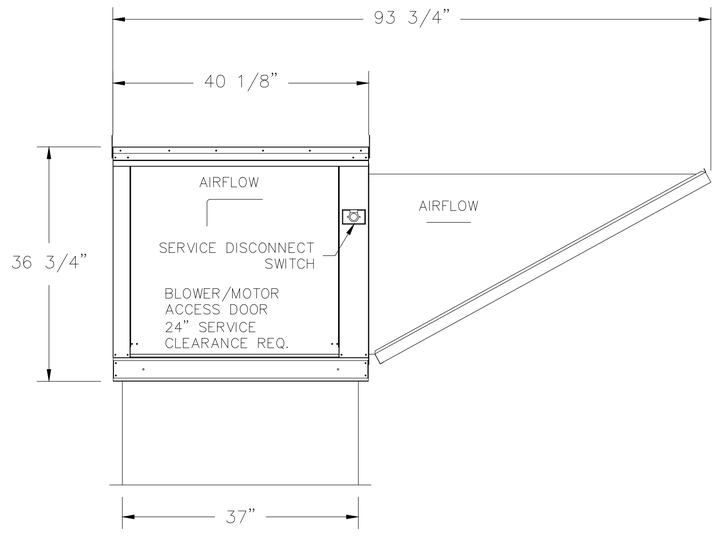
Sheet No.
MK108

Renovation of the Swami Narayan Temple

FAN #2 A2-G15 – SUPPLY FAN
1. UNTEMPERED SUPPLY UNIT WITH 15" BLOWER IN SIZE #2 HOUSING
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE – AIR FLOW RIGHT -> LEFT



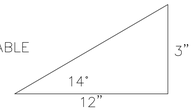




ROOF OPENING 2" SMALLER THAN CURB DIMENSION.

PITCHED CURBS ARE AVAILABLE
FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE



FOR REFERENCE ONLY

BUILT IN ACCORDANCE WITH NFPA NO. 96

CAPTIVEAIRE

JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	JOB # 2956184
DWG # 10	DRAWN BY ASE
REV.	SCALE 3/8" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
20706
STATE OF MISSISSIPPI
4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

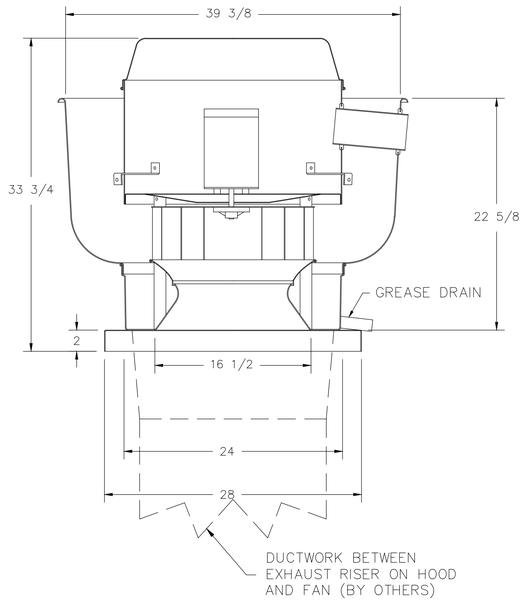
Phase
Construction Documents

Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MK109

Renovation of the Swami Narayan Temple

FAN #3 DU180HFA – EXHAUST FAN



FEATURES:

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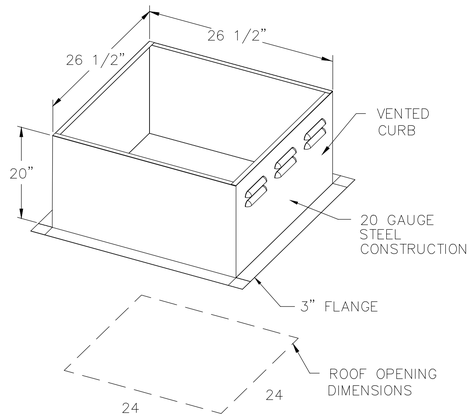
OPTIONS

GREASE BOX



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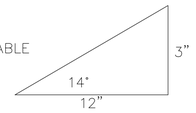

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE

FOR REFERENCE ONLY

BUILT IN ACCORDANCE WITH NFPA NO. 96

CAPTIVEAIRE

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LOCATION JACKSON, MS, 39204	
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STATE OF MISSISSIPPI · DAVID CHARLES MISHRA · REGISTERED PROFESSIONAL ENGINEER · 20706 · 4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

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Construction Documents

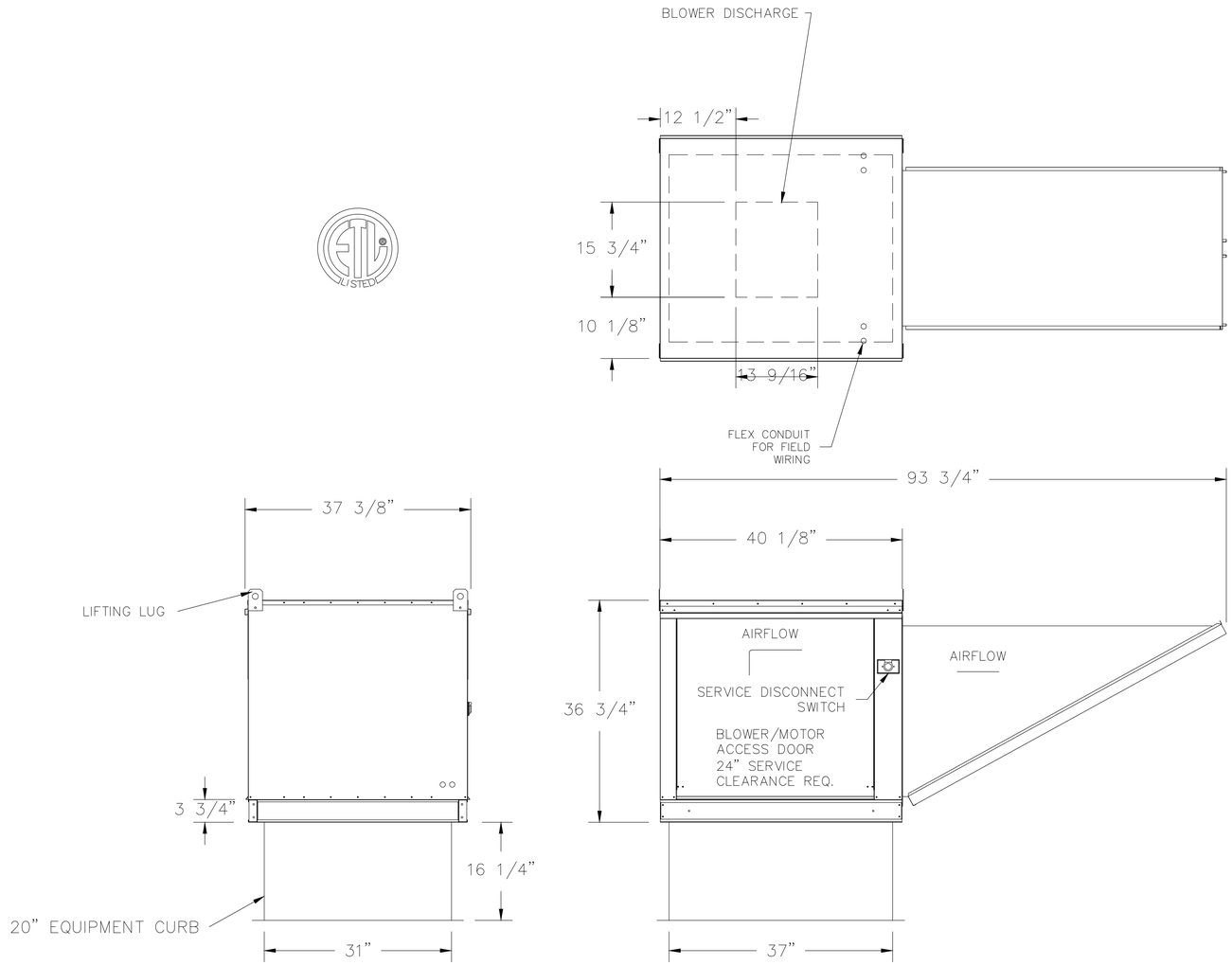
Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MK110

Renovation of the Swami Narayan Temple

FAN #4 A2-G12 – SUPPLY FAN

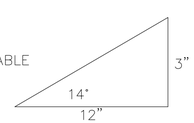
1. UNTEMPERED SUPPLY UNIT WITH 12" BLOWER IN SIZE #2 HOUSING
2. INTAKE HOOD WITH EZ FILTERS
3. DOWN DISCHARGE – AIR FLOW RIGHT –> LEFT



ROOF OPENING 2" SMALLER THAN CURB DIMENSION.

PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:
EXAMPLE: 7/12 PITCH = 30° SLOPE



FOR REFERENCE ONLY

BUILT IN ACCORDANCE WITH NFPA NO. 96

JOB SWAMI NARAYAN TEMPLE	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	JOB # 2956184
DWG # 12	DRAWN BY ASE
REV.	SCALE 3/8" = 1'-0"

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REVISIONS		
No.	Date	Description

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TOWN DEAN BROWN REGISTERED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI 4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Kitchen Hood and Equipment Plans

Phase
Construction Documents

Project No.	12-072
Prepared by	CRM
Checked by	DH
Date	April 3, 2017

Sheet No.
MK111

Renovation of the Swami Narayan Temple

GREASE DUCT SPECIFICATIONS:
PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW"
ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW"
IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING
CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW"
DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER
THE MANUFACTURES INSTALLATION GUIDE.
PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURES LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12".
DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.

IF THE DUCT IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 LISTED DOUBLE WALL GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW- 2R, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

CUSTOMER APPROVAL TO MANUFACTURE

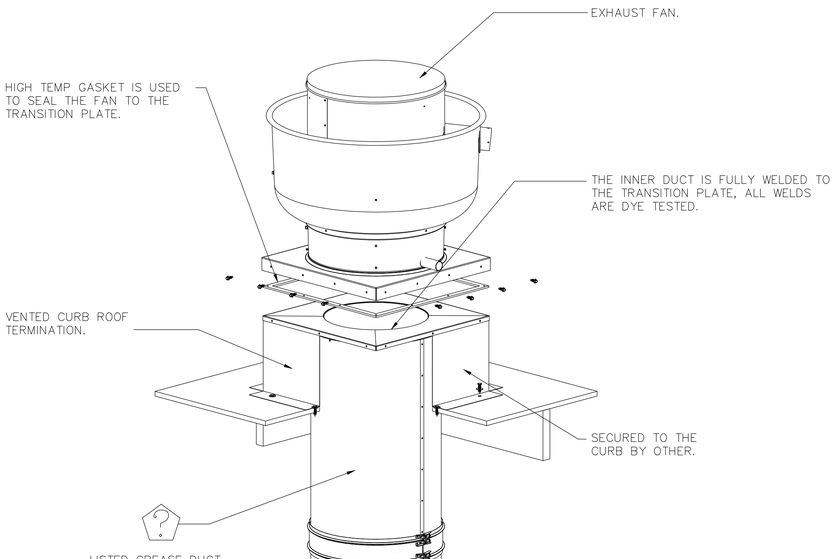
APPROVED AS NOTED ☐

APPROVED WITH NO EXCEPTION TAKEN ☐

REVISE AND RESUBMIT ☐

SIGNATURE _____

YOUR TITLE _____ DATE _____



FOR REFERENCE ONLY

BUILT IN ACCORDANCE WITH NFPA NMs. 96

CAPTIVEAIRE

JOB S1/8 11/16 m1/2 N11/16 1/4 11/16 3/8 11/16 n T3/16 m5/8 P3/16	
LOCATION JACKSON, MS, 39204	
DATE 3/20/2017	JOB # 2956184
DWG # 13	DRAWN BY ASE
REV.	SCALE 3/8" = 1'-0"

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JOHN DEAN MISHRA NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI 4-3-17

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2390 Greenway Drive
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Kitchen Hood and Equipment Plans

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Project No.	12-072
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Date	April 3, 2017

Sheet No.
MK112

Renovation of the Swami Narayan Temple

PLUMBING LEGEND

	DOMESTIC COLD WATER PIPING (CW)
	DOMESTIC HOT WATER PIPING (HW)
	DOMESTIC HOT WATER RETURN PIPING (HWR)
GW	GREASE WASTE PIPING (GW)
G	NATURAL GAS PIPING (G)
	SANITARY PIPING (SAN)
	VENT PIPING (V)
	BALANCING VALVE
OR	BALL VALVE
	CAP
	CHECK VALVE
OR	FLOOR CLEANOUT (FCO)
	FLOOR DRAIN (FD)
	FLOOR SINK (FS)
	FROST PROOF HOSE BIBB (FPHB)
	GRADE CLEANOUT (GCO)
	HOSE BIBB (HB)
OR	PIPE DOWN
OR	PIPE UP
	POINT OF CONNECTION TO EXISTING
	SOLENOID VALVE
	STRAINER
	T&P RELIEF VALVE
	THERMOMETER
	UNION
	WALL CLEANOUT (WCO)
	WATER HAMMER ARRESTER (WHA)

AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
A/C	ABOVE CEILING
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
BLDG	BUILDING
BLW	BELOW
CLG	CEILING
CO	CLEANOUT
CONN	CONNECT OR CONNECTION
CONT	CONTINUATION
DN	DOWN
DS	DOWNSPOUT
DSB	DOWNSPOUT BOOT
DSN	DOWNSPOUT NOZZLE
E.C.	ELECTRICAL CONTRACTOR
E?R	EXISTING TO REMAIN
EX, EXIST, (E)	EXISTING
FFE	FINISHED FLOOR ELEVATION
FLR	FLOOR
G.C.	GENERAL CONTRACTOR
HD	HUB DRAIN
IE, INV ELEV	INVERT ELEVATION
M.C.	MECHANICAL CONTRACTOR
MTD	MOUNTED
OH	OVERHEAD
ORD	OVERFLOW ROOF DRAIN
P.C.	PLUMBING CONTRACTOR
RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
RWC	RAINWATER CONDUCTOR
SF, SQ FT	SQUARE FOOT
T&P	TEMPERATURE AND PRESSURE
TP	TRAP PRIMER
TYP	TYPICAL
VTR	VENT THROUGH ROOF
W	WASTE

PLUMBING GENERAL NOTES

GENERAL REQUIREMENTS:

1. GENERAL AND SPECIAL CONDITIONS: GENERAL AND SPECIAL CONDITIONS ARE HEREBY MADE AN INTEGRAL PART OF THIS DIVISION OF THE SPECIFICATIONS INSOFAR AS SAME ARE APPLICABLE TO THE WORK UNDER THIS DIVISION AND UNLESS OTHERWISE SPECIFIED.
2. SCOPE: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
3. CODE COMPLIANCE: ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION, BUILDING DEPARTMENTS, AND DEPARTMENT OF HEALTH. APPLICABLE NATIONAL, STATE, AND LOCAL CODES, LAWS, AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK SHALL BE INCORPORATED INTO AND MADE A PART OF THESE CONTRACT DOCUMENTS AND SPECIFICATIONS. THE CONTRACTOR IS TO NOTIFY THE ARCHITECT/ENGINEER OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE CODES, LAWS, OR REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH A VIOLATION SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE AND AT NO EXPENSE TO THE OWNER.
4. PERMITS: APPLY FOR AND PAY FOR ALL NECESSARY PERMITS, FEES, AND INSPECTIONS REQUIRED BY ANY PUBLIC AUTHORITY HAVING JURISDICTION.
5. WARRANTY: PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT UNDER THIS SECTION OF THE SPECIFICATIONS WITH A ONE YEAR WARRANTY FROM THE DATE OF ACCEPTANCE OF WORK BY THE OWNER.
6. RECORD DRAWINGS: CONTRACTOR SHALL MAINTAIN AN ACCURATE RECORD OF ALL AS-BUILT CONDITIONS DURING CONSTRUCTION AND TURN OVER ONE COPY EACH TO THE OWNER AND THE ARCHITECT AFTER COMPLETION.
7. OPERATING MANUALS: CONTRACTOR SHALL FURNISH TO THE OWNER 3 SETS OF OPERATION AND MAINTENANCE MANUALS FOR ALL MAJOR PIECES OF EQUIPMENT.
8. COORDINATION: VERIFY ALL ROUGH-IN LOCATIONS AND COORDINATE PIPING AND EQUIPMENT LOCATIONS WITH WORK UNDER OTHER DIVISIONS OF THE SPECIFICATIONS TO AVOID CONFLICTS. CONTRACTOR MUST COORDINATE WITH OTHER TRADES FOR ALL STRUCTURES, PIPING, CONDUIT, DUCTWORK, LIGHTING, ETC TO PROPERLY BE INSTALLED. ANY CONFLICTS SHALL BE RESOLVED AT NO EXPENSE TO THE OWNER. COORDINATE INSTALLATION OF ALL PLUMBING PIPING AT CMU WALLS SO THAT THE PIPING IS PLACED IN WALL DURING CMU WALL CONSTRUCTION. CUTTING AND PATCHING OF CMU WALLS IN PLACE WILL NOT BE PERMITTED.
9. FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS BEFORE STARTING CONSTRUCTION AND NOTIFY THE ARCHITECT/ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS, AND/OR ANY POTENTIAL PROBLEMS OBSERVED, BEFORE CONTINUING WORK IN THE AFFECTED AREAS.
10. PROVIDE CONCRETE HOUSE KEEPING PADS FOR ALL PLUMBING EQUIPMENT SET ON FLOORS, UNLESS OTHERWISE NOTED. PADS SHALL BE A MINIMUM OF 4" HIGH AND A MINIMUM OF 6" LARGER THAN EQUIPMENT BASES ON ALL SIDES. CHAMFER ALL EDGES.
11. LABEL ALL PLUMBING PIPING WITH ADHESIVE PIPE LABELS INDICATING SERVICE AND DIRECTION OF FLOW. PIPE LABELS SHALL BE LOCATED NEAR ALL BRANCH CONNECTIONS, NEAR ALL FLOOR AND WALL PENETRATIONS, AND AT MAXIMUM INTERVALS OF 25' ALONG EACH RUN.
12. PLUMBING SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO:
    - -PLUMBING FIXTURES AND EQUIPMENT
    - -FIRE STOPPING
    - -INSULATION AND HEAT TRACE
    - -DOMESTIC WATER SYSTEM
    - -SANITARY WASTE AND VENT SYSTEM
    - -NATURAL GAS SYSTEM
    - -STORM DRAIN SYSTEM
    - -COMPRESSED AIR SYSTEM

FIXTURES:

1. PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. EXPOSED COPPER OR BRASS MATERIALS SHALL BE CHROME PLATED.
2. SEAL ALL EDGES OF PLUMBING FIXTURES IN CONTACT WITH FLOORS, WALLS, OR COUNTERTOPS USING SANITARY-TYPE, ONE-PART, MILDEW RESISTANT SILICONE SEALANT. MATCH SEALANT COLOR TO FIXTURE COLOR.
3. PROVIDE PERMANENTLY ATTACHED VACUUM BREAKERS FOR ALL FIXTURES/FAUCETS TO WHICH HOSES MAY BE CONNECTED.
4. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF PLUMBING FIXTURES.

FIRE STOPPING:

1. FIRE STOP ALL PENETRATIONS, BY PIPING OR CONDUITS, OF FIRE RATED WALLS, FLOORS, AND PARTITIONS. PROVIDE DEVICE(S) OR SYSTEM(S) WHICH HAS BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814 AND INSTALL IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE DEVICE(S) OR SYSTEM(S) WITH AN 'F' RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

INSULATION AND HEAT TRACE:

1. INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES SHALL NOT EXCEED A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
2. ALL PIPE INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOORS, WALLS, AND PARTITIONS.
3. DOMESTIC WATER PIPING:
   - 3.1. INSULATE METALLIC AND/OR HOT WATER RETURN WATER PIPING ABOVE GRADE (EXCEPT EXPOSED CONNECTIONS TO PLUMBING FIXTURES) WITH 1" THICKNESS ENGINEERED POLYMER FOAM INSULATION, OR MINERAL-FIBER PREFORMED PIPE INSULATION WITH FACTORY-APPLIED ALL SERVICE JACKETING.
   - 3.2. IN AREAS SUBJECT TO FREEZING TEMPERATURES, WRAP WITH HEAT TRACE AND INSULATION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN TEMPERATURE AT 40?F OR ABOVE.
4. SANITARY WASTE PIPING:
   - 4.1. FOR P-TRAPS INSTALLED IN AREAS SUBJECT TO FREEZING TEMPERATURES, WRAP WITH HEAT TRACE AND INSULATION INSTALLED PER MANUFACTURER'S RECOMMENDATIONS TO MAINTAIN TEMPERATURE AT 40?F OR ABOVE.
   - 4.2. INSULATE ALL ABOVE SLAB WASTE PIPING FROM ELECTRIC WATER COOLERS, AND FROM DRAINS SERVING ICE MACHINES, UP TO AND INCLUDING 10'-0" FROM FIXTURE OR DRAIN.
5. STORM PIPING
   - 5.1. INSULATE STORM PIPING ABOVE GRADE AND ROOF DRAIN BODIES WITH 1" THICKNESS ENGINEERED POLYMER FOAM INSULATION, OR MINERAL-FIBER PREFORMED PIPE INSULATION WITH FACTORY-APPLIED ASJ. THIS INCLUDES THE PRIMARY AND SECONDARY STORM DRAIN SYSTEMS.

DOMESTIC WATER PIPING:

1. FURNISH AND INSTALL A COMPLETE SYSTEM OF DOMESTIC HOT AND COLD WATER FROM EXISTING SUPPLIES TO ALL FIXTURES AND/OR EQUIPMENT REQUIRING DOMESTIC WATER SUPPLIES. VERIFY LOCATION OF BEGINNING POINTS.
2. DOMESTIC WATER PIPING BELOW GROUND:
   - 2.1. AWWA C151 CEMENT-LINED DUCTILE IRON PIPE AND FITTINGS FOR PIPING 4" AND LARGER; ASTM B 88 TYPE 'K' SOFT COPPER TUBE WITH WROT COPPER FITTINGS, AND BRAZED OR PRESSURE-SEALED JOINTS FOR PIPING 3" AND SMALLER.
   - 2.2. IF PERMITTED BY LOCAL CODES, CPVC PIPE AND FITTINGS CONFORMING TO ASTM D 2846 MAY BE USED.
3. DOMESTIC WATER PIPING ABOVE GROUND:
   - 3.1. ASTM B 88 TYPE 'L' HARD COPPER TUBE WITH WROUGHT COPPER FITTINGS, AND SOLDERED OR PRESSURE-SEALED JOINTS.
   - 3.2. IF PERMITTED BY LOCAL CODES, FLOWGUARD GOLD CPVC COPPER TUBE SIZE SDR 11 PIPE AND FITTINGS CONFORMING TO ASTM D 2846 MAY BE USED.
   - 3.3. IF PERMITTED BY LOCAL CODES, ASTM F876 CROSSLINKED POLYETHYLENE PEX-A TUBING, AND ASTM F1960 PEX-A COLD EXPANSION FITTINGS MAY BE USED. DO NOT INSTALL PEX TUBING IN RETURN AIR PLENUMS.
4. STERILIZE DOMESTIC WATER PIPING IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
5. SHUT-OFF VALVES SHALL BE NIBCO TWO-PIECE, BRONZE, FULL PORT, BALL TYPE. PROVIDE SHUT-OFF VALVES ON ALL BRANCH PIPING SERVING TWO OR MORE FIXTURES, AND WHERE INDICATED ON THE DRAWINGS. INSTALL VALVES IN A LOCATION THAT PERMITS ACCESS FOR SERVICE AND OPERATION WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. PROVIDE ACCESS DOORS IF REQUIRED.
6. PROVIDE DRAIN VALVES IN THE DOMESTIC HOT AND COLD WATER PIPING AT ALL LOW POINTS TO ALLOW FOR COMPLETE DRAINAGE OF THE SYSTEMS.
7. PROVIDE A PRESSURE REDUCING VALVE WITH STRAINER AT THE SERVICE ENTRANCE TO THE BUILDING IF THE INCOMING WATER PRESSURE EXCEEDS 80 PSI.
8. PROVIDE EXPANSION COMPENSATION AS REQUIRED TO ABSORB THERMAL EXPANSION IN PIPE RUNS 100' AND LONGER.
9. PROVIDE CHECK VALVES IN THE HOT AND COLD WATER SUPPLY PIPING TO ALL FAUCETS TO WHICH HOSES MAY BE CONNECTED (MOP BASINS, CAN WASHES, SERVICE SINKS, ETC.), AND TO ALL SPRAY FAUCETS (PRE-RINSE, BED PAN CLEANERS, ETC.), UNLESS FAUCET HAS INTEGRAL CHECK VALVES.
9. PROTECT COPPER PIPING AGAINST CONTACT WITH DISSIMILAR METALS. ALL HANGERS, SUPPORTS, ANCHORS, AND CLIPS SHALL BE COPPER OR COPPER-PLATED. WHERE COPPER PIPING IS CARRIED ON IRON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISOLATION MATERIAL TO PREVENT CONTACT WITH OTHER METALS.
10. PROTECT COPPER PIPING AGAINST CONTACT WITH ALL MASONRY. WHERE COPPER PIPING IS SLEEVED THROUGH MASONRY, PROVIDE COPPER OR RED BRASS SLEEVES. WHERE COPPER PIPING IS CONCEALED IN OR AGAINST MASONRY PARTITIONS, PROVIDE A HEAVY COATING OF ASPHALTIC ENAMEL ON THE COPPER PIPING AND 15# ASPHALT-SATURATED FELT BETWEEN THE PIPING AND THE MASONRY PARTITION.
11. INSTALL DOMESTIC WATER PIPING IN EXTERIOR WALLS ON THE CONDITIONED SIDE OF THE WALL INSULATION.
12. NON POTABLE WATER PIPING AND VALVES SHALL BE LABELED "NON POTABLE WATER/NOT FOR DOMESTIC USE".

SANITARY WASTE AND VENT PIPING:

1. FURNISH AND INSTALL COMPLETE SYSTEMS OF SANITARY WASTE AND VENT PIPING FROM ALL PLUMBING FIXTURES AND/OR EQUIPMENT REQUIRING WASTE AND VENT CONNECTIONS. ALL WASTE AND VENT PIPING SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2. SANITARY WASTE AND VENT PIPING BELOW GROUND:
   - 2.1. ASTM A 74, SERVICE WEIGHT, HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS; AND GASKETED JOINTS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
   - 2.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED
3. SANITARY WASTE AND VENT PIPING ABOVE GROUND:
   - 3.1. ASTM A 888 AND CISPI 301, HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; AND HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
   - 3.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED. PVC PIPING INSTALLED IN RETURN AIR PLENUMS MUST BE PROTECTED WITH 3M FIRE BARRIER PLENUM WRAP 5A+, OR SIMILAR PRODUCT.
4. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE SANITARY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. SLOPE SANITARY PIPING 2-1/2" AND SMALLER AT 1/4" PER FOOT MINIMUM, AND SLOPE SANITARY PIPING 3" AND LARGER AT 1/8" PER FOOT MINIMUM.
5. WHERE SANITARY PIPING IS EXPOSED IN TOILET ROOMS, PROVIDE CHROME-PLATED BRASS PIPING WITH MATCHING ESCUTCHEONS. PROVIDE REMOVABLE TRAPS WITH INTEGRAL CLEANOUT PLUG FOR ALL LAVATORIES AND SINKS.
6. INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS IN HORIZONTAL PIPING NOT MORE THAN 100 FEET APART, AT THE BASE OF ALL SOIL AND WASTE STACKS, AND FOR EVERY FOUR 45° CHANGES LOCATED IN SERIES (A LONG SWEEP IS EQUIVALENT TO TWO 45° BENDS).
7. DO NOT CONNECT HORIZONTAL BRANCHES WITHIN 10 PIPE DIAMETERS DOWNSTREAM OF THE BASE OF ANY SANITARY STACK.
8. ALL INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP INTO AN APPROVED WASTE RECEPTOR. THE AIR GAP BETWEEN THE INDIRECT WASTE PIPE AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE A MINIMUM OF TWCE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.

NATURAL GAS PIPING:

1. WORK TO INCLUDE PIPING FROM GAS METER(S), OR EXISTING PIPING, TO ALL GAS-FIRED EQUIPMENT SERVING BUILDING, INCLUDING FINAL CONNECTIONS TO EQUIPMENT.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE STATE ADOPTED FUEL GAS CODE, ALL APPLICABLE LOCAL CODE REQUIREMENTS, AND THE REGULATIONS OF THE GAS COMPANY PROVIDING SERVICE.
3. NATURAL GAS PIPING UNDER GROUND:
   - 3.2. SCHEDULE 40 BLACK STEEL PIPE, ASTM A53 WITH POLYETHYLENE JACKET, WELDED JOINTS AND STANDARD WEIGHT BLACK STEEL BUTT WELD OR SOCKET WELD FITTINGS, ASTM A243
   - 3.3. POLYETHYLENE PIPE, ASTM 2513, WITH HEAT FUSION JOINTS AND FITTINGS, ASTM D2513.
4. NATURAL GAS PIPING ABOVE GROUND:
   - 4.1. ASTM A 53 SCHEDULE 40 SEAMLESS BLACK STEEL PIPE WITH MALLEABLE FITTINGS AND THREADED JOINTS.
5. VALVES SHALL BE FULL PORT BALL VALVES APPROVED FOR USE IN NATURAL GAS PIPING SYSTEMS.
6. ALL GAS PIPING LOCATED UNDER THE FLOOR SLAB SHALL BE INSTALLED IN CONDUIT VENTED TO THE OUTDOORS OR AS REQUIRED BY CODE.
7. PROVIDE SHUT-OFF VALVE, UNION, VENT LIMITING GAS REGULATOR, DRIP LEG, AND TEST CONNECTION AT EACH PIECE OF GAS-FIRED EQUIPMENT TO PROVIDE PRESSURE TO EQUIPMENT AS REQUIRED BY MANUFACTURER.
8. ALL GAS PIPING LOCATED ON ROOFS SHALL BE INSTALLED ON MANUFACTURED PIPE SUPPORTS SIMILAR TO ERICO CADDY PYRAMID 50. WOOD BLOCKING WILL NOT BE PERMITTED.
9. ALL PIPING EXPOSED TO THE OUTDOORS, RUN IN UNCONDITIONED SPACES, OR EXPOSED IN FINISHED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL. COLOR TO BE YELLOW, AS SELECTED BY ARCHITECT, OR AS REQUIRED BY GAS COMPANY.
10. PROVIDE EMERGENCY SOLENOID SHUT-OFF VALVE FOR COOKING EQUIPMENT AS REQUIRED BY CODE. SOLENOID VALVE SHALL BE WIRED TO EXHAUST HOOD FIRE SUPPRESSION SYSTEM.
11. CORRUGATED STAINLESS STEEL TUBING SHALL NOT BE USED WITHOUT WRITTEN APPROVAL, EXCEPT FOR CONNECTIONS AT EQUIPMENT.

STORM DRAIN PIPING:

1. WORK INCLUDES ROOF DRAINS AND PIPING TO A POINT 5'-0" OUTSIDE OF THE BUILDING, AND OVERFLOW DRAINS AND PIPING TO WALL MOUNTED DISCHARGE NOZZLES. ALL PIPING SHALL BE CONCEALED IN THE BUILDING CONSTRUCTION WHERE POSSIBLE.
2. INVERT ELEVATIONS SHALL BE ESTABLISHED AND VERIFIED BEFORE STORM PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED. SLOPE STORM PIPING AT 1/8" PER FOOT MINIMUM.
3. STORM DRAIN PIPING BELOW GROUND:
   - 3.1. ASTM A 74, SERVICE WEIGHT, HUB AND SPIGOT, CAST IRON SOIL PIPE AND FITTINGS; AND GASKETED JOINTS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
   - 3.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED.
4. STORM DRAIN PIPING ABOVE GROUND:
   - 4.1. ASTM A 888 AND CISPI 301, HUBLESS, CAST IRON SOIL PIPE AND FITTINGS; AND HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS. ALL PIPE AND FITTINGS SHALL BE MARKED WITH THE COLLECTIVE TRADEMARK OF THE CAST IRON SOIL PIPE INSTITUTE, AND LISTED BY NSF INTERNATIONAL.
   - 4.2. IF PERMITTED BY LOCAL CODES, ASTM D 2665 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2665 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED. PVC PIPING INSTALLED IN RETURN AIR PLENUMS MUST BE PROTECTED WITH 3M FIRE BARRIER PLENUM WRAP 5A+, OR SIMILAR PRODUCT.
5. INSULATE STORM PIPING ABOVE GRADE AND ROOF DRAIN BODIES WITH 1" THICKNESS ENGINEERED POLYMER FOAM INSULATION, OR MINERAL-FIBER PREFORMED PIPE INSULATION WITH FACTORY-APPLIED ASJ. THIS INCLUDES THE PRIMARY AND OVERFLOW STORM DRAIN SYSTEMS.
6. STORM DRAIN PIPING INSULATION, JACKETS, COVERINGS, SEALERS, MASTICS, AND ADHESIVES SHALL NOT EXCEED A FLAME SPREAD RATING OF 25 AND A SMOKE DEVELOPED RATING OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84.
7. INSTALL CLEANOUTS IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BUILDING OR FINISHED MATERIALS. CLEANOUT PLUGS SHALL BE INSTALLED IN ACCORDANCE WITH PLUMBING CODE REQUIREMENTS. PROVIDE CLEANOUTS IN HORIZONTAL PIPING NOT MORE THAN 100 FEET APART, AT THE BASE OF ALL RAINWATER CONDUCTORS, AND FOR EVERY FOUR 45° CHANGES LOCATED IN SERIES (A LONG SWEEP IS EQUIVALENT TO TWO 45° BENDS).

WATER HAMMER ARRESTER REQUIREMENTS:

1. PROVIDE WATER HAMMER ARRESTERS CONFORMING TO PDI-WH201 OR ASSE 1010, INSTALLED PER MANUFACTURER'S SPECIFICATIONS, WHERE QUICK CLOSING VALVES ARE UTILIZED. A QUICK CLOSING VALVE IS A VALVE OR FAUCET THAT CLOSES AUTOMATICALLY WHEN RELEASED, OR THAT IS CONTROLLED BY MECHANICAL MEANS FOR FAST-ACTION CLOSING. REFER TO WATER HAMMER ARRESTER SCHEDULE.
2. AS A MINIMUM, PROVIDE ONE WATER HAMMER ARRESTER FOR EACH BRANCH LINE TO EACH TOILET ROOM LESS THAN 20' IN LENGTH, LOCATED BETWEEN THE LAST TWO FIXTURES SERVED. FOR BRANCH LINES GREATER THAN 20' IN LENGTH, A SECOND WATER HAMMER ARRESTER IS REQUIRED.

BACKFLOW PREVENTER REQUIREMENTS FOR WATER SERVICE:

1. VERIFY BACKFLOW PREVENTER REQUIREMENTS OF LOCAL AUTHORITY AND PROVIDE BACKFLOW PREVENTER AS REQUIRED, IF NOT PROVIDED BY SITE UTILITY CONTRACTOR.

WATER METER REQUIREMENTS:

1. VERIFY WATER METER REQUIREMENTS OF LOCAL AUTHORITY, AND OWNER, AND PROVIDE WATER METER AS REQUIRED, IF NOT PROVIDED BY SITE UTILITY CONTRACTOR.

SEISMIC REQUIREMENTS:

1. PROPERLY SUPPORT AND BRACE VERTICALLY AND HORIZONTALLY ALL PIPING, APPARATUS, EQUIPMENT, ETC IN ACCORDANCE WITH APPLICABLE CODES TO PREVENT EXCESSIVE MOVEMENT DURING SEISMIC CONDITIONS.

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REVISIONS		
No.	Date	Description

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TOWN OF CLEAR SPRINGS REGISTERED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI
4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Green Bay Drive
Jackson, MS 39204

Drawing Title
Plumbing Notes and Legend

Phase
Construction Documents

Project No. 12-072
Prepared by DH
Checked by DH
Date April 3, 2017

Sheet No.
P001

Renovation of the Swami Narayan Temple

PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE

MARK	FIXTURE	TYPE	MATERIAL	PIPE SIZES				SPECIFICATION
				SAN	VENT	CW	HW	
WC-1	WATER CLOSET	FLOOR MOUNTED FLUSH TANK STANDARD HEIGHT	VITREOUS CHINA	4"	2"	½"	–	FIXTURE: AMERICAN STANDARD CADET PRO NO. 215CA.004, 1.6 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 3" FLUSH VALVE, EVERCLEAN SURFACE. SUPPLY: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
WC-2	WATER CLOSET	FLOOR MOUNTED FLUSH TANK ADA HEIGHT	VITREOUS CHINA	4"	2"	½"	–	FIXTURE: AMERICAN STANDARD CADET PRO RIGHT HEIGHT NO. 215AA.005, 1.6 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 3" FLUSH VALVE, EVERCLEAN SURFACE, TRIP LEVER ON RIGHT SIDE. SUPPLY: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS MODEL 3155SSCT EXTRA HEAVY WEIGHT, SOLID PLASTIC, OPEN FRONT, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
WC-3	WATER CLOSET	FLOOR MOUNTED FLUSH TANK STANDARD HEIGHT	VITREOUS CHINA	4"	2"	½"	–	FIXTURE: AMERICAN STANDARD CADET PRO NO. 215CA.004, 1.6 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 3" FLUSH VALVE, EVERCLEAN SURFACE. SUPPLY: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS EXTRA HEAVY WEIGHT, SOLID PLASTIC, CLOSED FRONT WITH COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
L-1	LAVATORY	COUNTERTOP ADA COMPLIANT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD AQUALYN NO. 0476.028, 20-3/8" X 17-3/8" OVAL, SELF-RIMMING, FRONT OVERFLOW, FAUCET LEDGE WITH FAUCET HOLES ON 4" CENTERS. FAUCET: AMERICAN STANDARD SEVA NO. 1480.150, POLISHED CHROME-PLATED CAST BRASS, SINGLE CONTROL CENTERSET, WITH 0.5 GPM VANDAL-RESISTANT AERATOR. PROVIDE LEONARD LF-170 MIXING VALVE SET AT 105 DEG. F. TRAP: McGUIRE 155WC STRAINER WITH 1-1/4" OFFSET TAILPIECE, McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS.
L-2	LAVATORY	COUNTERTOP ADA COMPLIANT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD AQUALYN NO. 0476.028, 20-3/8" X 17-3/8" OVAL, SELF-RIMMING, FRONT OVERFLOW, FAUCET LEDGE WITH FAUCET HOLES ON 4" CENTERS. FAUCET: AMERICAN STANDARD SEVA NO. 1480.150, POLISHED CHROME-PLATED CAST BRASS, SINGLE CONTROL CENTERSET, WITH 0.5 GPM VANDAL-RESISTANT AERATOR. PROVIDE LEONARD LF-170 MIXING VALVE SET AT 105 DEG. F. TRAP: McGUIRE 155WC STRAINER WITH 1-1/4" OFFSET TAILPIECE, McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS, AND OFFSET TAILPIECE COVER.
L-3	LAVATORY	WALL HUNG ADA HEIGHT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD LUCERNE NO. 0356.421, 20" X 18", FRONT OVERFLOW, SELF-DRAINING DECK WITH SPLASH SHIELDS, FAUCET LEDGE WITH SINGLE CENTER FAUCET HOLE. FAUCET: SLOAN OPTIMA PLUS EBF-187-4-BDT BATTERY POWERED SENSOR ACTIVATED FAUCET, 0.5 GPM, 4" CENTERSET INSTALL, VANDAL RESISTANT ADA COMPLIANT POLISHED CHROME FAUCET. PROVIDE LEONARD LF-170 MIXING VALVE SET AT 105 DEG. F. TRAP: McGUIRE 155WC STRAINER WITH 1-1/4" OFFSET TAILPIECE, McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. CARRIER: ZURN Z1231 SERIES CONCEALED ARM SYSTEM FOR WALL LAVATORIES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS, AND OFFSET TAILPIECE COVER.
L-4	LAVATORY	COUNTERTOP	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD AQUALYN NO. 0476.028, 20-3/8" X 17-3/8" OVAL, SELF-RIMMING, FRONT OVERFLOW, FAUCET LEDGE WITH FAUCET HOLES ON 4" CENTERS. FAUCET: TBD TRAP: McGUIRE 155WC STRAINER WITH 1-1/4" OFFSET TAILPIECE, McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS.
L-5	LAVATORY	WALL HUNG ADA HEIGHT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: TBD FAUCET: TBD. PROVIDE LEONARD LF-170 MIXING VALVE SET AT 105 DEG. F. TRAP: McGUIRE 155WC STRAINER WITH 1-1/4" OFFSET TAILPIECE, McGUIRE 1-1/4" X 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE LAVATORY SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS. CARRIER: ZURN Z1231 SERIES CONCEALED ARM SYSTEM FOR WALL LAVATORIES. INCLUDE TRUEBRO LAV GUARD 2 MODEL #103 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS, AND OFFSET TAILPIECE COVER.
U-1	URINAL	WALL HUNG FLUSH VALVE STANDARD HEIGHT	VITREOUS CHINA	2"	2"	¾"	–	FIXTURE: AMERICAN STANDARD WASHBROOK FLOWISE NO. 6590.001, 0.5 GALLONS PER FLUSH, WASHOUT FLUSHING ACTION, 3/4" TOP SPUD. FLUSH VALVE: SLOAN G2 OPTIMA PLUS MODEL 8186-0.5-LH, BATTERY POWERED SENSOR OPERATED, EXPOSED DIAPHRAGM TYPE, 0.5 GALLONS PER FLUSH, WITH OVERRIDE, LESS HANDLE OPENING. CARRIER: ZURN Z1222 SERIES WALL URINAL SUPPORT SYSTEM WITH TOP AND BOTTOM SUPPORT PLATES.
U-2	URINAL	WALL HUNG FLUSH VALVE ADA HEIGHT	VITREOUS CHINA	2"	2"	¾"	–	FIXTURE: AMERICAN STANDARD WASHBROOK FLOWISE NO. 6590.001, 0.5 GALLONS PER FLUSH, WASHOUT FLUSHING ACTION, 3/4" TOP SPUD. MOUNT AT ADA HEIGHT. FLUSH VALVE: SLOAN G2 OPTIMA PLUS MODEL 8186-0.5-LH, BATTERY POWERED SENSOR OPERATED, EXPOSED DIAPHRAGM TYPE, 0.5 GALLONS PER FLUSH, WITH OVERRIDE, LESS HANDLE OPENING. CARRIER: ZURN Z1222 SERIES WALL URINAL SUPPORT SYSTEM WITH TOP AND BOTTOM SUPPORT PLATES.
SH-1	SHOWER	INDIVIDUAL STALL ADA COMPLIANT	TILE	FD	–	½"	½"	FIXTURE: TILE SHOWER STALL CONSTRUCTED BY THE G.C. VALVE: SYMMONS TEMPTROL COMMERCIAL MODEL C-96-500-B30-V-X, PRESSURE-BALANCING MIXING VALVE WITH LEVER HANDLE, INTEGRAL SERVICE STOPS; DIVERTER WITH INTEGRAL VOLUME CONTROL; WALL/HAND SHOWER WITH IN-LINE VACUUM BREAKER, FLEXIBLE 5' METAL HOSE, WALL CONNECTION AND FLANGE, 30" SLIDE BAR; CAST BRASS ADJUSTABLE SPRAY SHOWER HEAD WITH ARM AND FLANGE.
SH-2	SHOWER	INDIVIDUAL STALL	TILE	FD	–	½"	½"	FIXTURE: TILE SHOWER STALL CONSTRUCTED BY THE G.C. VALVE: SYMMONS TEMPTROL COMMERCIAL MODEL C-96-1-X, PRESSURE-BALANCING MIXING VALVE WITH LEVER HANDLE, INTEGRAL SERVICE STOPS, CAST BRASS ADJUSTABLE SPRAY SHOWER HEAD WITH ARM AND FLANGE.
BT-1	BATHTUB	RECESS	AMERICAST	2"	2"	½"	½"	FIXTURE: AMERICAN STANDARD PRINCETON MODEL 2396.202 ICH (LEFT DRAIN) OR 2397.202 ICH (RIGHT DRAIN), 60" X 34" WITH INTEGRAL APRON AND TILING FLANGE, SLIP-RESISTANT FINISH, ABOVE FLOOR ROUGH. FAUCET: SYMMONS DIA MODEL 3502-CYL-B-X-L/HD TUB-SHOWER SYSTEM, POLISHED CHROME FINISH, PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL SERVICE STOPS AND TRIM, TUB SPOUT WITH DIVERTER, SHOWER HEAD MOUNTING BRACKET AND FLANGE, LESS SHOWER HEAD; WATERPIK MODEL SM-621 SIX-FUNCTION SHOWER HEAD. DRAIN: LIFT AND TURN DRAIN STOPPER ASSEMBLY WITH OVERFLOW INCLUDED WITH BATH, POLISHED CHROME FINISH.
EWC-1	ELECTRIC WATER COOLER	WALL MOUNTED ADA COMPLIANT	STAINLESS STEEL	1¼"	1¼"	½"	–	FIXTURE: ELKAY MODEL EZS8S, BARRIER-FREE, SELF-CONTAINED, 8.0 GPH, EASY-TOUCH CONTROLS ON FRONT AND SIDES, ONE PIECE STAINLESS STEEL TOP WITH INTEGRAL DRAIN, FLEXIBLE BUBBLER, STAINLESS STEEL LOWER SHROUD. TRAP: McGUIRE 1-1/4" 17 GAUGE P-TRAP. SUPPLY: McGUIRE 1/2" X 3/8" CAST BRASS STOP WITH WHEEL HANDLE, OR 1/2" FULL PORT BALL VALVE.

WATER HEATER SCHEDULE

MARK	LOCATION	EQUIPMENT	MANUFACTURER & MODEL NO.	SPECIFICATION
GWH-1	UTILITY 109	GAS WATER HEATER	AO SMITH MODEL BTH-199	COMMERCIAL GAS-FIRED, CONDENSING, DIRECT VENT, 100 GALLON CAPACITY, 199 MBH INPUT, 235 GPH AT 100°F TEMPERATURE RISE, GLASS-LINED STEEL TANK, WITH FACTORY INSTALLED T&P RELIEF VALVE AND DRAIN VALVE.
EWH-1	STORAGE 203	ELECTRIC WATER HEATER	AO SMITH MODEL DEL-40	COMMERCIAL ELECTRIC, LOWBOY, 40 GALLON CAPACITY, 4.5 KW INPUT, 208V-1 PHASE, 23 GPH AT 80°F TEMPERATURE RISE, GLASS-LINED STEEL TANK, WITH FACTORY INSTALLED T&P RELIEF VALVE AND DRAIN VALVE.

PLUMBING EQUIPMENT SCHEDULE

MARK	EQUIPMENT	MANUFACTURER & MODEL NO.	SPECIFICATION
FD-1	FLOOR DRAIN	ZURN ZN415B-P	CAST IRON BODY, MEMBRANE CLAMP, ADJUSTABLE COLLAR, 6" DIAMETER "TYPE B" POLISHED NICKEL BRONZE STRAINER, 1/2" TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	ZURN Z550-Y-P	9" DIAMETER MEDIUM DUTY SLOTTED TOP, CAST IRON BODY, COMBINATION MEMBRANE FLASHING CLAMP AND FRAME, SEDIMENT BUCKET, 1/2" TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	ZURN ZN1901-KC-2	12"x12"x8" DEEP CAST IRON BODY WITH WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR, ANCHOR FLANGE WITH SEEPAGE HOLES AND CLAMP COLLAR, NICKEL BRONZE FRAME WITH 1/2 GRATE.
RD	MAIN ROOF DRAIN	ZURN ZA100	15" DIAMETER, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ALUMINUM DOME.
ORD	OVERFLOW ROOF DRAIN	ZURN ZA100-W2	15" DIAMETER, DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ALUMINUM DOME, 2" HIGH INTERNAL WATER DAM.
FCO	FLOOR CLEAN OUT	ZURN ZN1400-BP	ADJUSTABLE, COATED CAST IRON BODY, ROUND SCORIATED NICKEL BRONZE TOP, BRONZE PLUG.
WCO	WALL CLEAN OUT	ZURN Z1446-BP-VP	CAST IRON NO-HUB CLEANOUT TEE, WITH ROUND STAINLESS STEEL WALL ACCESS COVER, BRONZE PLUG, VANDAL-PROOF SECURING SCREW.
GCO	GRADE CLEAN OUT	ZURN Z1400-BP-VP	ADJUSTABLE, COATED CAST IRON BODY, ROUND CAST IRON TOP, BRONZE PLUG, VANDAL-PROOF SCREWS, SET IN 18" X 18" X 6" DEEP CONCRETE SLAB.
HB-1	HOSE BIBB	WOODFORD MODEL 24	ANTI-SIPHON ANGLE SILL FAUCET, CAST BRASS, POLISHED CHROME PLATED, ½" FLANGED THREADED INLET, ¾" HOSE THREAD OUTLET, LOOSE KEY OPERATION, VACUUM BREAKER BACKFLOW CHECK VALVE.
FWH-1	FREEZELESS WALL HYDRANT	WOODFORD MODEL 67C	EXPOSED, ANTI-SIPHON, AUTOMATIC DRAINING, CAST BRASS WALL HYDRANT, CHROME PLATED FINISH, 3/4" INLET, 3/4" MALE HOSE THREAD NOZZLE, LOOSE TEE KEY OPERATION, WITH DOUBLE CHECK VALVE BACKFLOW PREVENTION DEVICE
IMB-1	ICE MAKER OUTLET BOX	OATEY ICE MAKER OUTLET BOX NO. 39152	RECESSED PLASTIC BOX, 1/4 TURN BRASS BALL VALVE WITH WATER HAMMER ARRESTER, LOW LEAD, 2 SUPPORT BRACKETS, SNAP-ON FACEPLATE.
WMB-1	WASHING MACHINE OUTLET BOX	OATEY WASHING MACHINE OUTLET BOX NO. 38957	RECESSED PLASTIC BOX, WITH 2" OFFSET DRAIN, 1/4 TURN BRASS BALL VALVES WITH WATER HAMMER ARRESTERS, 4 SUPPORT BRACKETS, SNAP-ON FACEPLATE.
TMV-1	THERMOSTATIC MIXING VALVE	SYMMONS MAXLINE 7-225-CK-MS	0.5 GPM MINIMUM FLOW, THERMOSTATIC WATER TEMPERATURE LIMITING VALVE WITH INTEGRAL CHECKS, BRASS BODY, BRASS AND STAINLESS STEEL INTERNAL COMPONENTS, DUAL STAINLESS STEEL STRAINERS, VANDAL-RESISTANT CAP/TEMPERATURE ADJUSTMENT HANDLE, 1/2" MALE NPT CONNECTIONS. SET MIXING VALVE OUTLET TEMPERATURE TO 110° F.
TMV-2	THERMOSTATIC MIXING VALVE	POWERS LFMM431	0.5 GPM MINIMUM FLOW, 25 GPM FLOW WITH 15 PSI PRESSURE DROP, THERMOSTATIC WATER TEMPERATURE LIMITING VALVE WITH INTEGRAL CHECKS, LEAD FREE BRASS VALVES, SET MIXING VALVE OUTLET TEMPERATURE TO 120° F.
GI-1	GREASE INTERCEPTOR	PARKS GT-1000	PRE-CAST CONCRETE GREASE INTERCEPTOR, 1000 GALLON CAPACITY, WITH TRAFFIC RATED MANHOLE COVERS. PROVIDE EXTENSIONS AS REQUIRED.
DSN	DOWNSPOUT NOZZLE FOR OVERFLOW ROOF DRAINS	ZURN ZANB199-SS	NICKEL BRONZE BODY WITH REMOVABLE STAINLESS SCREEN.

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No.	Date	Description

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KEY PLAN

BAPS, Inc.
Reno ation o the S ami Narayan Temple

2390 Green ay Dri e
ackson, MS 39204

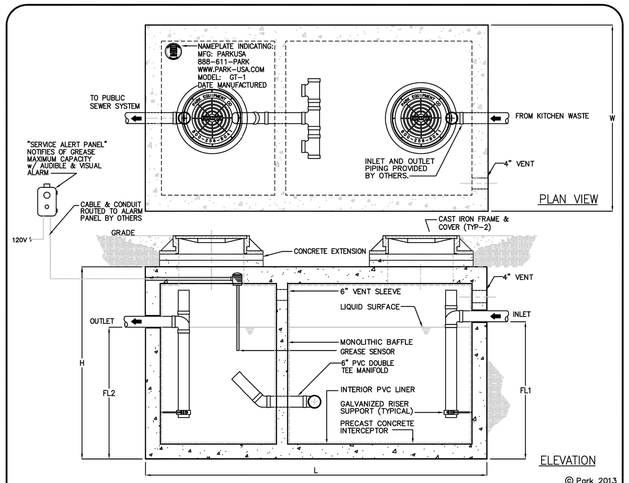
Dra ing Title
Plumbing Schedules

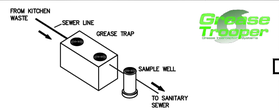
Phase
Construction Documents

Pro ect No. 12-072
Prepared by DH
Checked by DH
Date April 3, 2017

Sheet No.
P002

Reno ation o the S ami Narayan Temple





Typical applications include commercial and industrial food service kitchens where excessive grease may interfere with the proper drainage of the sewer system. The grease interceptor is generally buried below grade for gravity flow sewer systems. A sample well is utilized on the outlet side for sampling by the local water authority.

GREASE INTERCEPTOR SCHEDULE

MODEL NO.	CAPACITY USGal	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-500	500	1,200	9,500	7'-10"	4'-4"	4'-6"	3'-3"	3'-0"
GT-750	750	1,700	9,900	7'-10"	4'-4"	6'-0"	4'-5"	4'-2"
GT-1000	1,000	2,300	13,350	8'-8"	5'-0"	6'-0"	4'-9"	4'-6"
GT-1250	1,250	2,900	14,650	9'-2"	5'-8"	6'-0"	4'-9"	4'-6"
GT-1500	1,500	3,500	16,050	9'-2"	5'-8"	7'-0"	5'-9"	5'-6"
GT-2000	2,000	4,600	21,250	9'-0"	6'-0"	8'-0"	6'-9"	6'-6"
GT-2500	2,500	5,700	27,050	13'-0"	7'-0"	7'-0"	5'-9"	5'-6"
GT-3000	3,000	6,900	33,150	13'-0"	7'-0"	8'-0"	6'-9"	6'-6"
GT-3500	3,500	8,000	38,550	13'-0"	7'-0"	8'-6"	7'-3"	7'-0"
GT-4000	4,000	9,300	38,100	16'-0"	8'-6"	7'-0"	5'-9"	5'-6"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION

Specifications

CONCRETE : Class I/II concrete with design strength of 4500 PSI at 28 days. Unit is of monolithic construction at floor, first stage of wall and baffle with sectional riser to required depth. (Monolithic baffle required, slide-in type is not acceptable)

REINFORCEMENT: Grade 60 reinforced with steel rebar conforming to ASTM A615 on required centers or equal.

C.I. CASTINGS: Manhole frames, covers or grates are manufactured of grey cast iron conforming to ASTM A48-76 Class 30. Manhole shall be nominal 24 inch diameter and be traffic duty.

Engineering Data

The grease interceptor is structurally & hydraulically engineered to conform to UPC/IPC and regional plumbing codes recommended in most cities. Consult with local authorities for specific application requirements.

Shop drawings shall include complete structural & bouyancy calculations certified by a licensed professional engineer upon request.

Consult with Park Equipment Company for exact excavation dimensions & shipping information.

888.611.7275
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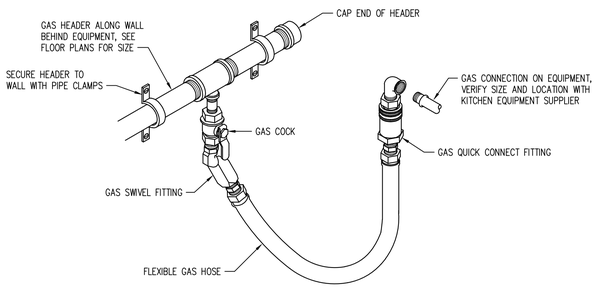
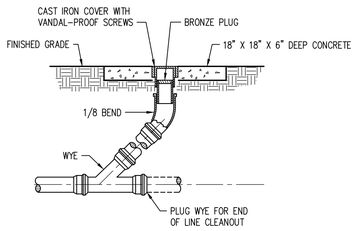
GREASE INTERCEPTOR SERIES GT
500 THRU 4000 GALLON CAPACITY

SCALE	NONE	DWG. NO.	GT-1	REV.
DATE	03/13			A

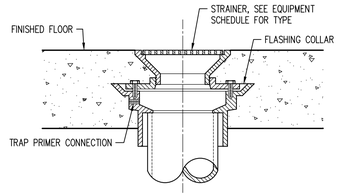
7 P003 GREASE INTERCEPTOR DETAIL
NOT TO SCALE



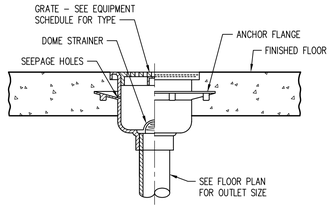
3 P003 KITCHEN EQUIPMENT GAS CONNECTION DETAIL
NOT TO SCALE



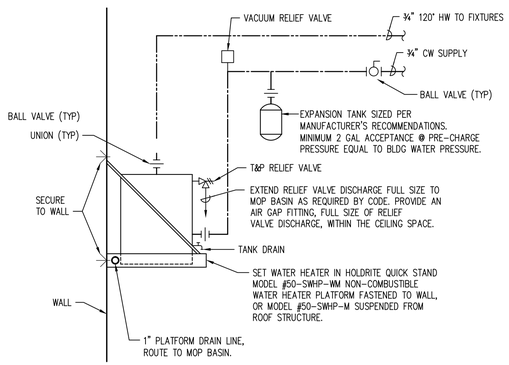
6 P003 GRADE CLEANOUT DETAIL
NOT TO SCALE



5 P003 FLOOR DRAIN DETAIL
NOT TO SCALE

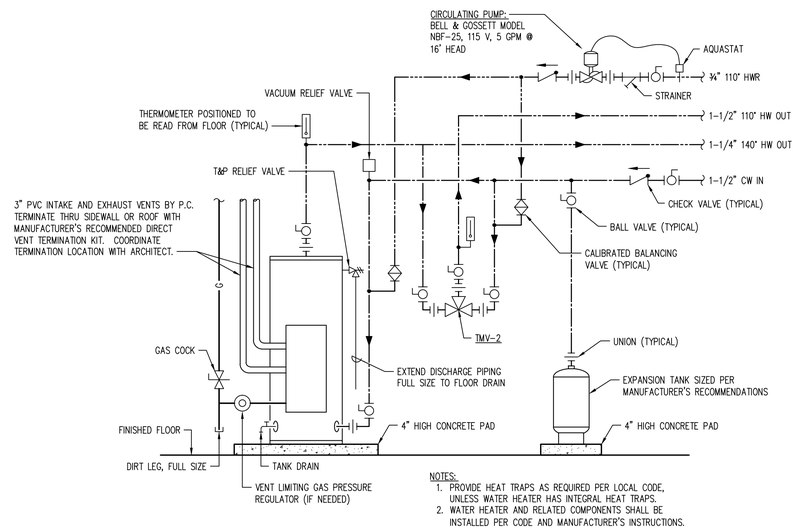


4 P003 FLOOR SINK DETAIL
NOT TO SCALE



NOTES:
1. WATER HEATER PLATFORM SHALL BE MOUNTED ABOVE CEILING OR AS HIGH AS POSSIBLE ON WALL.
2. PROVIDE HEAT TRAPS AS REQUIRED PER LOCAL CODE, UNLESS WATER HEATER HAS INTEGRAL HEAT TRAPS.
3. WATER HEATER AND RELATED COMPONENTS SHALL BE INSTALLED PER CODE AND MANUFACTURER'S INSTRUCTIONS.

2 P003 ELECTRIC WATER HEATER DETAIL
NOT TO SCALE



NOTES:
1. PROVIDE HEAT TRAPS AS REQUIRED PER LOCAL CODE, UNLESS WATER HEATER HAS INTEGRAL HEAT TRAPS.
2. WATER HEATER AND RELATED COMPONENTS SHALL BE INSTALLED PER CODE AND MANUFACTURER'S INSTRUCTIONS.

1 P003 GAS WATER HEATER DETAIL
NOT TO SCALE

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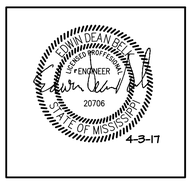


KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenbay Drive
Jackson, MS 39204

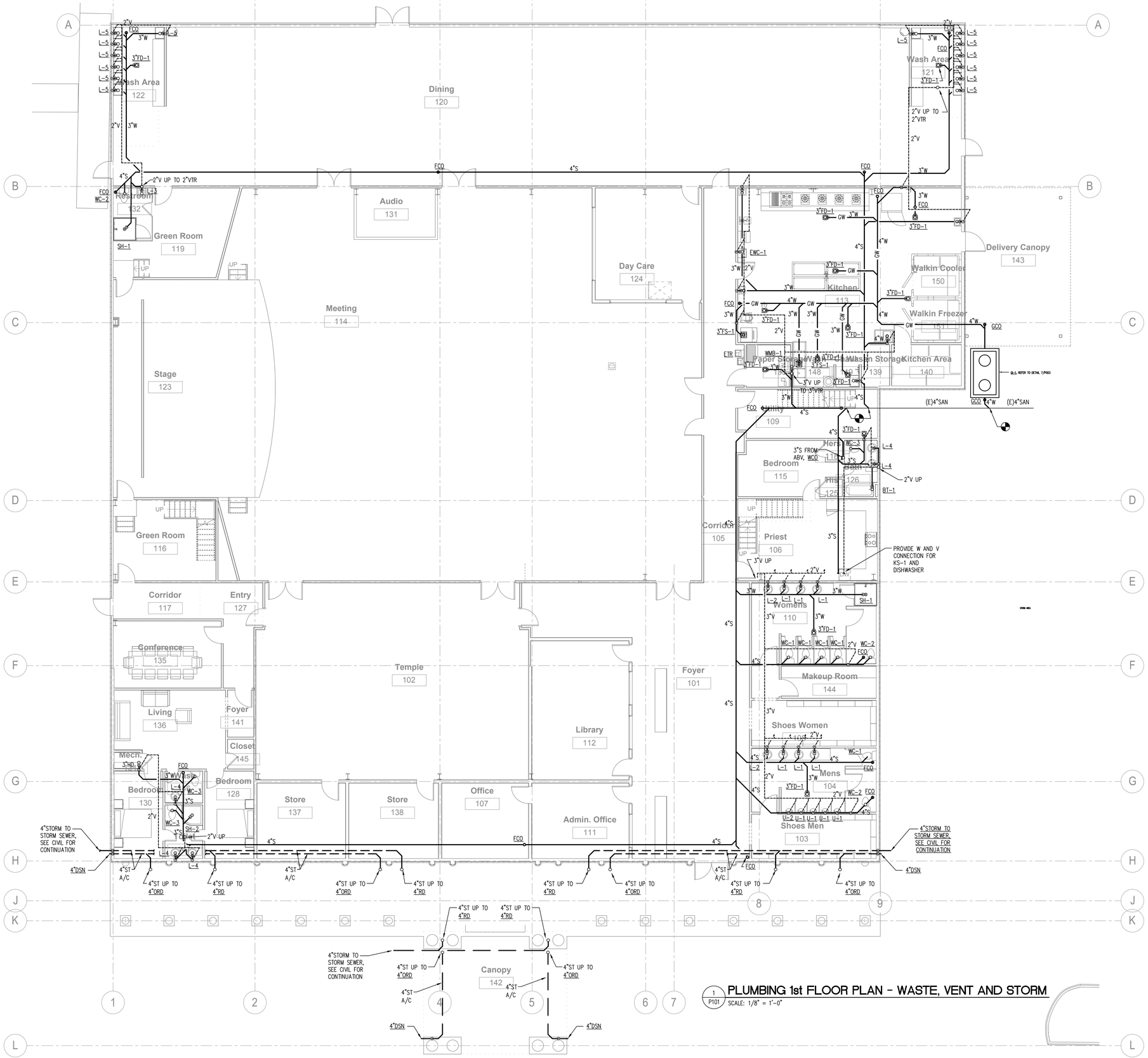
Drawing Title
Plumbing Details

Phase
Construction Documents

Project No. 12-072
Prepared by DH
Checked by DH
Date April 3, 2017

Sheet No.
P003

Renovation of the Swami Narayan Temple



1 P101 PLUMBING 1st FLOOR PLAN - WASTE, VENT AND STORM

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

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JOHN DEANGELO MISHRA — REGISTERED PROFESSIONAL ENGINEER — 20706 — STATE OF MISSISSIPPI — 4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenbay Drive
Jackson, MS 39204

Drawing Title
Plumbing 1st Floor Plan - Waste and Vent

Phase
Construction Documents

Project No.	12-072
Prepared by	DH
Checked by	DH
Date	April 3, 2017

Sheet No. P101

Renovation of the Swami Narayan Temple

1 P102 PLUMBING 1st FLOOR PLAN - WATER AND FUEL GAS SUPPLY

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

KEYED NOTES THIS SHEET

1. PROVIDE DIRT LEG, SHUT OFF VALVE, VENT-LIMITING REGULATOR, AND CONNECTION TO EQUIPMENT PER MANUFACTURER RECOMMENDATIONS.
2. GAS EMERGENCY SHUTOFF, PROVIDE REMOTE MANUAL RESET SOLENOID VALVE AND INTERCONNECT TO HOOD FIRE PROTECTION CONTROL PANEL SO THAT VALVE CLOSES IN AN ALARM CONDITION. COORDINATE LOCATION OF RESET WITH OWNER. PROVIDE VENT-LIMITING PRESSURE REGULATOR TO REDUCE PRESSURE TO 11"W.C.
3. BRANCH 1/2"CW (AND 1/2"HW) UP AND DOWN TO SERVE FIXTURES ABOVE AND BELOW.
4. BRANCH 1/2"CW (AND 1/2"HW) TO WATER OUTLET ON WALL AND ABOVE STOVE, COORDINATE EXACT LOCATION WITH FOODSERVICE EQUIPMENT SUPPLIER..
5. PROVIDE SHUT-OFF VALVE, DUAL CHECK VALVE, AND CONNECTION TO EQUIPMENT
6. PROVIDE SHUT-OFF VALVE, DUAL CHECK VALVE, AND CONNECTION TO HOSE REEL

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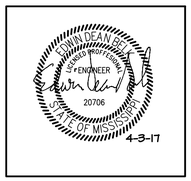


KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenbay Drive
Jackson, MS 39204

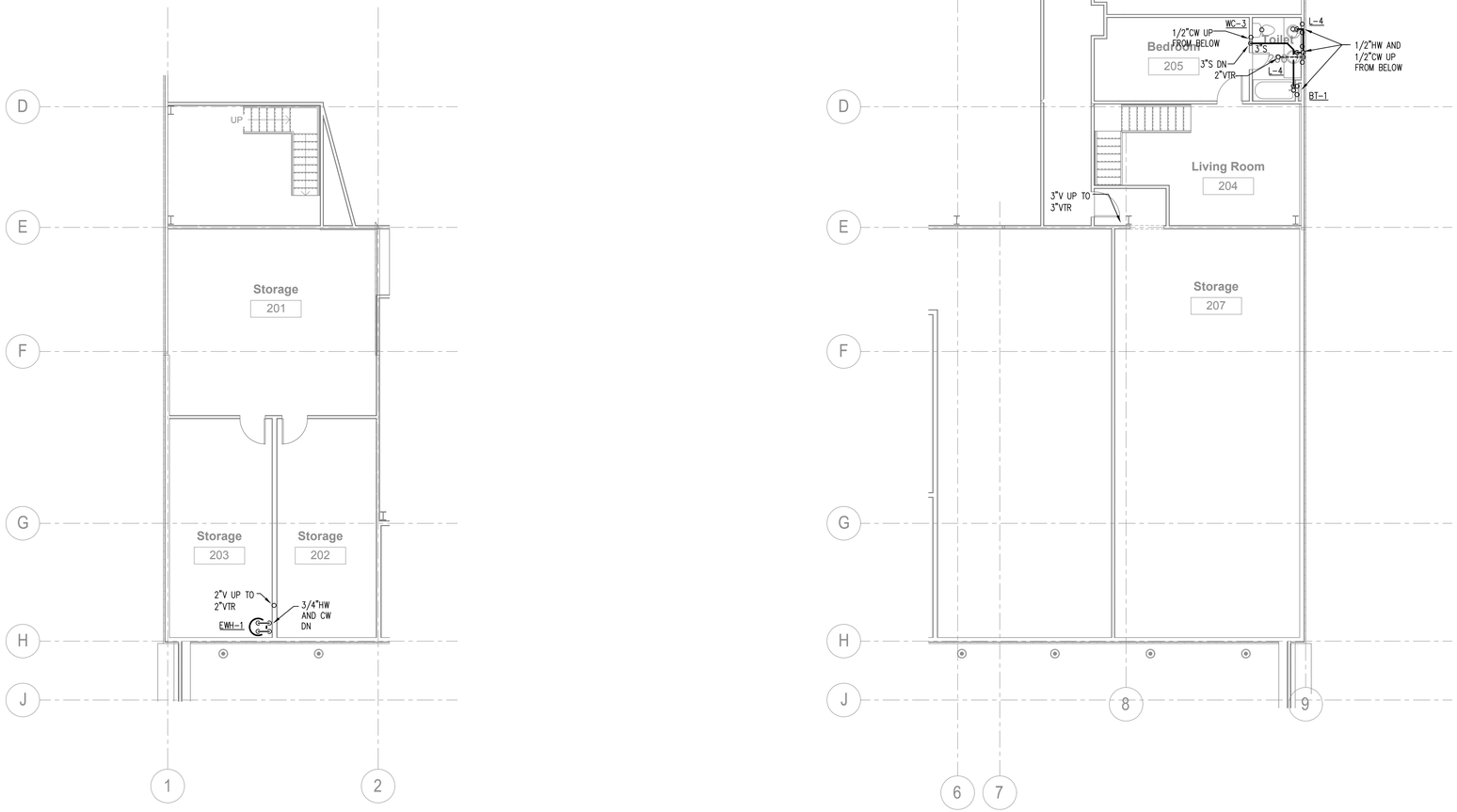
Drawing Title
Plumbing 1st Floor Plan - Water Supply

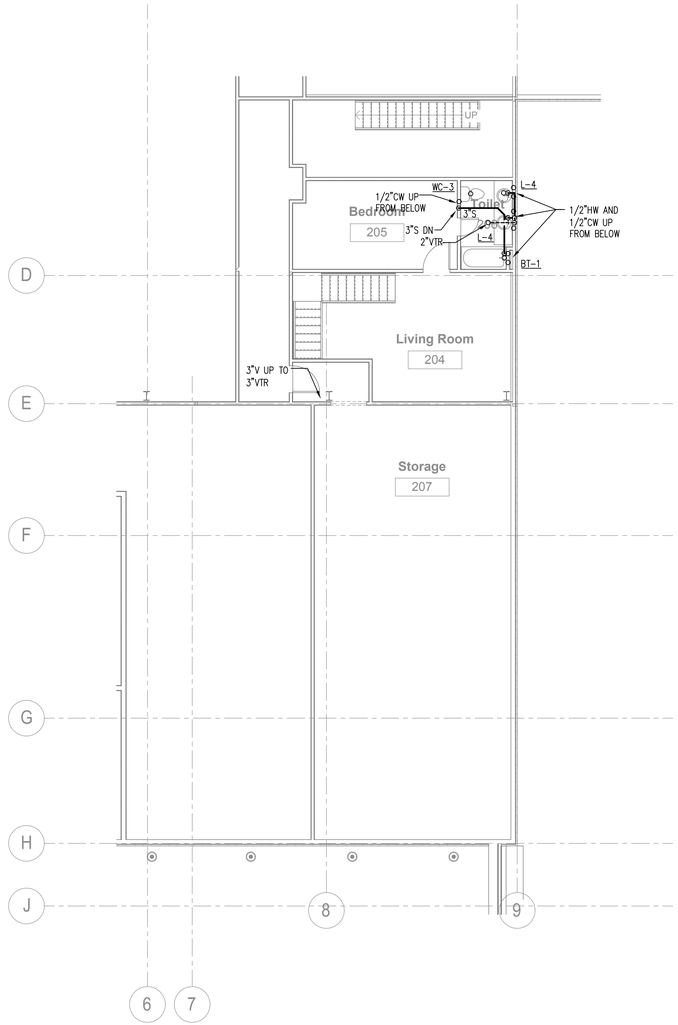
Phase
Construction Documents

Project No.	12-072
Prepared by	DH
Checked by	DH
Date	April 3, 2017

Sheet No. P102

Renovation of the Swami Narayan Temple





1 / P103 PLUMBING 2nd FLOOR PLAN

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

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ENGINEER
20706
STATE OF MISSISSIPPI
4-3-17

KEY PLAN

BAPS, Inc.
Reno ation o the S ami Narayan Temple

2390 Green ay Dri e
ackson, MS 39204

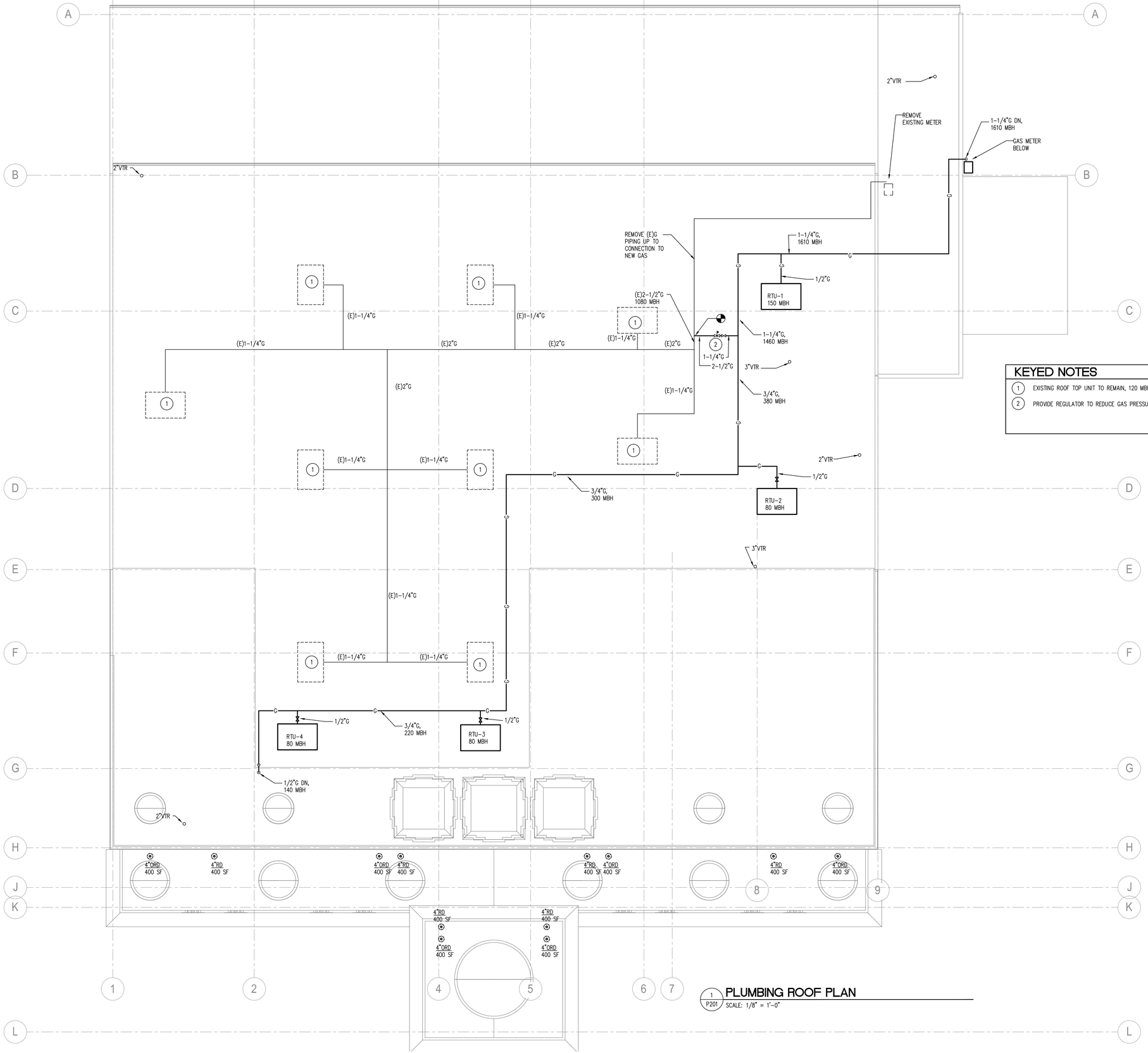
Dra ing Title
Plumbing 2nd Floor Plan

Phase
Construction Documents

Pro ect No. 12-072
Prepared by DH
Checked by DH
Date April 3, 2017

Sheet No.
P103

Reno ation o the S ami Narayan Temple



KEYED NOTES

1. EXISTING ROOF TOP UNIT TO REMAIN, 120 MBH INPUT
2. PROVIDE REGULATOR TO REDUCE GAS PRESSURE TO 11" W.C.

PLUMBING ROOF PLAN

1 / P201 SCALE: 1/8" = 1'-0"

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KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Plumbing 2nd Floor Plan

Phase
Construction Documents

Project No.	12-072
Prepared by	DH
Checked by	DH
Date	April 3, 2017

Sheet No. P201

Renovation of the Swami Narayan Temple

ELECTRICAL SPECIFICATIONS

PART 1: GENERAL

A. PROVIDE ALL WORK AND MATERIALS FOR THE INSTALLATION OF COMPLETE WIRING SYSTEMS AS SPECIFIED HEREIN AND INDICATED ON THE DRAWINGS.

B. ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.

C. ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.

D. THE ELECTRICAL CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS COMMERCIAL EXPERIENCE TO BE QUALIFIED TO PERFORM THE WORK HERE-IN. ANY CONTRACTOR THAT DOES NOT HAVE THE EXPERIENCE REQUIRED MAY BE REMOVED FROM THE PROJECT AT ANYTIME.

E. WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, OSHA, STATE BUILDING CODE AND ALL OTHER APPLICABLE LOCAL REQUIREMENTS. ALL WORK SHALL COMPLY WITH THE LATEST ADDITION OF NECA STANDARDS OF INSTALLATION.

F. ALL MATERIALS, DEVICES, AND APPLIANCES SHALL BE NEW, EXCEPT WHERE OTHERWISE NOTED, AND SHALL BE LISTED BY AN APPROVED TESTING AGENCY. FACTORY ASSEMBLED EQUIPMENT SHALL BE LISTED AND LABELED AS AN ASSEMBLY, ANY EQUIPMENT NOT LISTED SHALL HAVE PRIOR APPROVAL FROM THE LOCAL AUTHORITY HAVING JURISDICTION. ALL MATERIALS SHALL COMPLY WITH APPLICABLE ANSI, IEEE AND NEMA STANDARDS.

G. PROVIDE ALL CUTTING, PATCHING, CHANNELING AND CHASING FOR INSTALLATION OF WORK AND REPAIR ANY DAMAGE OF EXISTING OR NEW INSTALLATIONS AT THE CONTRACTORS EXPENSE.

H. SHOP DRAWINGS AND CATALOG DATA SHALL BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING WORK. SUBMIT FOUR COPIES OF SHOP DRAWINGS FOR LIGHTING FIXTURES, LAMPS, BALLASTS AND PANELBOARDS. SUBMIT FOUR COPIES OF CATALOG DATA FOR DISCONNECT SWITCHES AND WIRING DEVICES.

I. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR PANELBOARDS, WIRING TROUGHS, AND FUSED SWITCHES, WHITE LETTERS ON BLACK FOR 120/208 VOLT SYSTEMS. LABEL ALL BREAKERS INSIDE THE PANEL NEXT TO THE BREAKER USING THE NUMBER SCHEME INDICATED ON THE DRAWINGS.

J. AN ELECTRICAL INSPECTION CERTIFICATE SHALL BE ISSUED BY THE LOCAL INSPECTION AUTHORITIES BEFORE APPROVAL FOR FINAL PAYMENT.

K. THE CONDUIT AND NEUTRAL SYSTEM SHALL BE GROUNDED AT THE MAIN SERVICE EQUIPMENT. GROUNDING ELECTRODE SYSTEM SHALL BE INSTALLED PER N.E.C. ARTICLE 250 AND AS INDICATED ON THE DRAWINGS.

L. WIRING SHALL BE TESTED FOR CONTINUITY AND GROUNDS BEFORE BEING ENERGIZED. FAULTY WIRING SHALL BE REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.

M. IF, DURING THE COURSE OF WORK, THE ELECTRICAL CONTRACTOR DISCOVERS A PROBLEM WITH THE PERFORMANCE OF THE INSTALLATION RELATIVE TO THE PLANS AND SPECIFICATIONS OR NEC OR OTHER CODES, THE CONTRACTOR SHALL IMMEDIATELY BRING THE PROBLEM TO THE ATTENTION OF THE ARCHITECT OR ENGINEER FOR RESOLUTION PRIOR TO THE EXECUTION OF THE WORK.

N. THE ELECTRICAL CONTRACTOR SHALL CONNECT ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, UNLESS OTHERWISE NOTED, EXCEPT FOR CONTROL WIRING FOR EQUIPMENT NOT PROVIDED BY THE ELECTRICAL CONTRACTOR. CONTROL WIRING FOR SUCH EQUIPMENT SHALL BE PROVIDED BY THE RESPECTIVE DISCIPLINE.

O. COORDINATE LOCATION AND REQUIREMENTS FOR ELECTRICAL SERVICE WITH THE POWER COMPANY. WHERE MORE THAN ONE SERVICE IS SUPPLIED TO A BUILDING, PROVIDE IDENTIFICATION AT EACH SERVICE PER NEC 230-2(B) AND AS INDICATED ON THE DRAWINGS.

P. COORDINATE LOCATION AND REQUIREMENTS FOR TELEPHONE SERVICE WITH THE TELEPHONE COMPANY AND AS INDICATED ON THE DRAWINGS.

Q. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PROVIDING TEMPORARY POWER.

PART 2: RACEWAY

A. CONDUIT SHALL BE ZINC-COATED EMT INDOORS. EMT FITTINGS SHALL BE STEEL SCREW. MINIMUM SIZE SHALL BE ½"C, UNLESS OTHERWISE NOTED. USE SCHEDULE 40 PVC OUTDOORS ABOVE 8'-0" OR BELOW GRADE. USE IMC WHERE REQUIRED BY CODE OR EXPOSED BELOW 8'-0".

B. SUPPORT ALL CONDUITS WITH STRAPS AND CLAMPS. RUN ALL CONDUIT PARALLEL OR PERPENDICULAR TO BUILDING WALLS.

C. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE GALVANIZED SHEET METAL.

D. LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE USED FOR EQUIPMENT CONNECTIONS, BUT NOT AS A WIRING METHOD OTHERWISE.

E. MC CABLE MAY BE USED AS A WIRING METHOD WHERE ALLOWED BY CODE.

F. RACEWAY PENETRATIONS THROUGH FLOOR SLABS AND FIRE-RATED WALLS SHALL BE FILLED WITH IMPERVIOUS, NON-SHRINK GROUT SUFFICIENTLY TIGHT TO PREVENT THE TRANSFER OF SMOKE, WATER, AND DUST. ROOF PENETRATIONS SHALL BE WITHIN THE EQUIPMENT CURB WHERE POSSIBLE.

G. CONDUIT INSTALLED UNDERGROUND OR IN CONCRETE SHALL HAVE JOINTS MADE WATER-TIGHT BY USE OF POLYTETRA-FLUOROETHYLENE TAPE. APPROVED SEALS SHALL BE PROVIDED IN HAZARDOUS LOCATIONS AS REQUIRED BY THE N.E.C.

PART 3: CONDUCTORS

A. ALL CONDUCTORS SHALL BE SINGLE CONDUCTOR COPPER. THHN/THWN, SOLID FOR SIZES #14 THROUGH #10. THHN/THWN STRANDED FOR SIZES #8 AND LARGER.

B. BRANCH CIRCUITS SHALL NOT BE SMALLER THAN #12 AWG. CONTROL WIRING MAY BE #14 AWG.

C. CONDUCTORS SHALL BE COLOR CODED BLACK/RED/BLUE FOR 120/208 VOLT SYSTEMS FOR A, B, AND C PHASES, RESPECTIVELY.

D. WIRING TO LIGHTING FIXTURES SHALL BE AS REQUIRED BY UL LABEL.

E. ALL BRANCH CIRCUIT CONDUITS OR CABLE ASSEMBLIES SHALL CONTAIN AN INSULATED GREEN GROUNDING CONDUCTOR SIZED PER NEC 250-122.

F. ALL EQUIPMENT AND DEVICE TERMINATIONS SHALL BE UL LISTED FOR USE WITH 75°C INSULATED CONDUCTORS AT THEIR 75°C AMPACITY.

G. PROVIDE A SEPARATE NEUTRAL FOR EACH PHASE CONDUCTOR IN ALL BRANCH CIRCUITS.

PART 4: WIRING DEVICES

A. WIRING DEVICES SHALL BE ALMOND WITH MATCHING PLASTIC COVER PLATES, SPECIFICATION GRADE AS INDICATED BELOW, EQUAL TO THE COOPER QUALITY INDICATED.

TOGGLE SWITCHES SHALL BE AS FOLLOWS:

SINGLE POLE 20 AMP	COOPER 1221
THREE WAY 20 AMP	COOPER 1223
FOUR WAY 20 AMP	COOPER 1224

DUPLEX RECEPTACLES SHALL HAVE A NYLON FACE AND SHALL BE AS FOLLOWS:

15 AMP DUPLEX	COOPER 5252
20 AMP DUPLEX	COOPER 5362
15 AMP DUPLEX-GFCI	COOPER GF5262
20 AMP DUPLEX-GFCI	COOPER GF5362

B. DUPLEX RECEPTACLES ON DEDICATED CIRCUIT SHALL BE 20 AMP. OTHER DUPLEX RECEPTACLES MAY BE 15 AMP, UNLESS OTHERWISE NOTED.

C. OUTLET BOXES SHALL NOT BE MOUNTED BACK-TO-BACK.

D. A MAXIMUM OF 10 RECEPTACLES SHALL BE ON EACH BRANCH CIRCUIT.

E. WEATHERPROOF COVERS SHALL HAVE A LID SO THAT PLUGS MAY BE INSTALLED WITHOUT COMPROMISING THE WP FUNCTION, EQUAL TO INTERMATIC GUARDIAN ONE #WP1020C.

F. ALL OUTLETS (INCLUDING TELEPHONE, CABLE TV AND DATA) SHALL HAVE COVER PLATES, BLANK IF NOT USED.

PART 5: DISCONNECT SWITCHES

A. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY TYPE IN NEMA 1 ENCLOSURES (UNLESS OTHERWISE INDICATED), FUSED OR NON-FUSED AS INDICATED. FUSED SWITCHES SHALL HAVE REJECTION-TYPE FUSE CLIPS. SWITCHES SHALL BE SQUARE D, OR EQUAL. FUSES SHALL BE CLASS R-5, TIME DELAY. A SET OF 3 SPARE FUSES OF EACH SIZE AND TYPE SHALL BE FURNISHED TO THE OWNER.

PART 6: PANELBOARDS

A. PANELBOARDS SHALL BE DEAD-FRONT SAFETY TYPE. ALL CIRCUIT BREAKERS SHALL BE MOLDED-CASE, BOLT-ON, AUTOMATIC THERMAL MAGNETIC TYPE, CALIBRATED FOR 40°C, OR AMBIENT COMPENSATION. CABINET SHALL BE 20 INCHES WIDE MINIMUM, WITH NOT LESS THAT 4-INCH WIRING GUTTERS AT TOP, SIDES, AND BOTTOM, SQUARE D "NF", "NQOD", OR EQUAL. BUS SHALL BE ALUMINUM WITH RATINGS AS INDICATED ON DRAWINGS. LUGS SHALL BE SIZED TO ACCOMMODATE CONDUCTORS INDICATED ON THE POWER RISER DIAGRAM.

B. PROVIDE HANDLE LOCK-ON DEVICES ON ALL CIRCUIT BREAKERS CONNECTED TO EMERGENCY, EXIT, AND NIGHT LIGHTING, FIRE ALARM, TELEPHONE AND SECURITY SYSTEMS.

C. CIRCUIT BREAKERS USED FOR SWITCHING OF LIGHTING OR SIGN CIRCUITS SHALL BE SWITCHING DUTY RATED AND SHALL BE MARKED "SWD".

PART 7: LIGHT FIXTURES

A. CATALOG NUMBERS GIVEN DENOTE MINIMUM QUALITY AND PERFORMANCE REQUIRED. EQUAL EQUIPMENT BY OTHER MANUFACTURERS IS ACCEPTABLE AS INDICATED ON THE LIGHT FIXTURE SCHEDULE.

B. H.I.D. BALLASTS SHALL BE HIGH POWER FACTOR WITH QUIETEST SOUND RATING.

C. LAY-IN FIXTURES SHALL BE SUSPENDED FROM STRUCTURE WITH 2 WIRES AT OPPOSITE CORNERS. DO NOT SUPPORT FROM CEILING GRID.

D. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF LIGHT FIXTURES.

E. ALL RECESSED LIGHTING FIXTURES SHALL BE THERMALLY PROTECTED.

F. COMPACT FLUORESCENT BALLASTS SHALL BE ELECTRONIC WITH END OF LIFE PROTECTION.

PART 8: TELEPHONE/DATA SYSTEM

A. FURNISH AND INSTALL A COMPLETE TELEPHONE/DATA CONDUIT SYSTEM AS INDICATED ON THE DRAWINGS. ALL OUTLET BOXES FOR TELEPHONE AND/OR DATA JACKS SHALL BE DOUBLE GANG WITH A SINGLE-GANG OPENING.

B. PULL AND LEAVE IN EACH CONDUIT ONE PULL CORD FOR PULLING IN CABLE. ALL WIRING, OUTLETS AND EQUIPMENT SHALL BE PROVIDED AND INSTALLED BY THE OWNERS TELE/DATA SUPPLIER.

C. TELEPHONE SERVICE CONDUITS SHALL BE PROVIDED TO THE PROPERTY LINE OR AS INDICATED ON THE DRAWINGS.

D. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A #6 AWG GREEN COPPER WIRE IN A 3/4" CONDUIT FROM THE NEAREST COLD WATER METAL MAIN TO A LUG AT THE TELEPHONE/DATA BACKBOARD.

PART 9: FIRE ALARM SYSTEM

A. NEW DEVICES SHALL BE CONNECTED TO THE EXISTING FIRE ALARM SYSTEM IN COMPLIANCE WITH ALL APPLICABLE NFPA 72 AND OTHER STANDARDS AS WELL AS THE AMERICAN'S WITH DISABILITIES ACT (ADA). ALL FINAL CONNECTIONS, TESTING AND ADJUSTMENTS SHALL BE PERFORMED BY OR UNDER DIRECT SUPERVISION OF AN AUTHORIZED FACTORY REPRESENTATIVE. NEW DEVICES SHALL BE COMPATIBLE WITH THE EXISTING FIRE ALARM SYSTEM. THE CONTRACTOR SHALL FIELD VERIFY EXACT SYSTEM MANUFACTURER AND TYPE. THE FIRE ALARM SUPPLIER SHALL VERIFY THE EXISTING SYSTEM CAN ACCOMMODATE THE NEW DEVICES PRIOR TO BID. WHEN THE EXISTING SYSTEM CAN NOT HANDLE THE DEVICES, THE FIRE ALARM SUPPLIER SHALL INCLUDE IN THEIR PRICE THE ADDITION OF NOTIFICATION APPLIANCE CIRCUITS (NAC) POWER EXTENDERS AS REQUIRED. SUPPLIER SHALL INCLUDE THE UPDATING OF EXISTING STROBES IN THE RENOVATED AREA SO THAT ALL STROBES, NEW AND EXISTING, ARE SYNCHRONIZED.

B. INITIATING DEVICE ACTIVATION SHALL CAUSE OPERATION OF THE PROPER ZONE ALARM CIRCUIT IN THE CONTROL PANEL, AND OPERATE ALL AUDIBLE INDICATING ALARMS. ALL AIR HANDLING UNITS SHALL BE STOPPED UPON ANY ALARM INPUT. EACH AIR HANDLER UNIT SHALL BE PROVIDED WITH A SYSTEM CONTROLLED RELAY TO EFFECT SHUTDOWN. ALL ALARM DEVICES AND LAMPS SHALL CONTINUE TO OPERATE UNTIL THE INITIATING DEVICE IS RESET. SUBSEQUENT ALARMS SHALL RESOUND THE SYSTEM. AN AUDIBLE AND VISUAL SIGNAL SHALL INDICATE SYSTEM TROUBLE. THE CONTROL PANEL SHALL PROVIDE FOR ACTIVATING A UL LISTED CENTRAL STATION SIGNAL.

C. MANUAL STATIONS SHALL BE NON-CODED, WITH PULL LEVER AND GLASS ROD, SEMI-FLUSH MOUNTED. COMBINATION LIGHT AND HORN SIGNALS SHALL BE FLUSH MOUNTED. WIRING SHALL BE IN CONDUIT AS PREVIOUSLY SPECIFIED, #14 AWG MINIMUM, THHN, THE USE OF PLENUM RATED CABLE IS NOT ALLOWED. ALL JUNCTION BOXES USED FOR THE FIRE ALARM SYSTEM SHALL BE PAINTED RED.

D. WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION, THE FIRE ALARM SUPPLIER SHALL A SEPARATE SET OF PLANS FOR A SEPARATE FIRE ALARM PERMIT. THE ENGINEER IS NOT RESPONSIBLE FOR PRODUCING THESE DRAWINGS OR FOR SUBMITTING FOR THIS PERMIT, IT IS THE SOLE RESPONSIBILITY OF THE FIRE ALARM SUPPLIER.

E. ALL STROBES LOCATED WITHIN THE SAME AREA SHALL BE SYNCHRONIZED.

PART 10: FIRE STOPPING

A. ALL PENETRATIONS OF NON-RATED PENETRATIONS SHALL BE SEALED WITH RATED MATERIALS MEETING ASTM E-814.

B. PROVIDE FIRE STOPPING DEVICE(S) OR SYSTEM(S) WHICH HAVE BEEN TESTED AND LISTED AS COMPLYING WITH ASTM E-814. INSTALL THE DEVICE(S) OR SYSTEM(S) IN ACCORDANCE WITH THE CONDITIONS OF THEIR LISTING. PROVIDE THE APPROPRIATE DEVICE(S) OR SYSTEM(S) WITH AN "F" RATING EQUAL TO THE RATING OF THE ASSEMBLY BEING PENETRATED.

C. DEVICE(S) AND/OR SYSTEM(S) SHALL BE BY HILTI, 3M OR EQUIVALENT.

D. WHERE OPENINGS FOR INSTALLATION OF ELECTRICAL BOXES EXCEEDS 16 SQUARE INCHES IN RATED WALLS OR PARTITIONS, THE OPENING SHALL BE PROTECTED AS REQUIRED BY THE APPROPRIATE WALL LISTING TYPE.

PART 11: RENOVATION OF EXISTING

A. EACH BIDDER SHALL VISIT THE PROJECT SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS. FAILURE TO VISIT THE SITE SHALL NOT EXCUSE THE CONTRACTOR FROM PERFORMING THE REQUIRED WORK NOR SHALL IT BE AN ACCEPTABLE REASON FOR REQUESTING ADDITIONS TO THE CONTRACT.

B. EXISTING PORTIONS OF THE FACILITY SHALL REMAIN IN OPERATION DURING THIS RENOVATION AND/OR ADDITION. THE CONTRACTOR SHALL CAUSE AS LITTLE DISRUPTION AS POSSIBLE TO MAINTAIN THE COMFORT AND SAFETY OF THE BUILDING OCCUPANTS. ALL POWER OUTAGES SHALL BE CLOSELY COORDINATED WITH THE OWNER'S REPRESENTATIVE.

C. PROJECT INVOLVES WORK ON EXISTING ELECTRICAL PANELS AND FEEDERS REQUIRED IN OPERATING THE FACILITY. TEMPORARY POWER ARRANGEMENTS SHALL BE MADE TO SERVE THOSE AREAS AFFECTED BY THIS PROJECT.

SYMBOL SCHEDULE

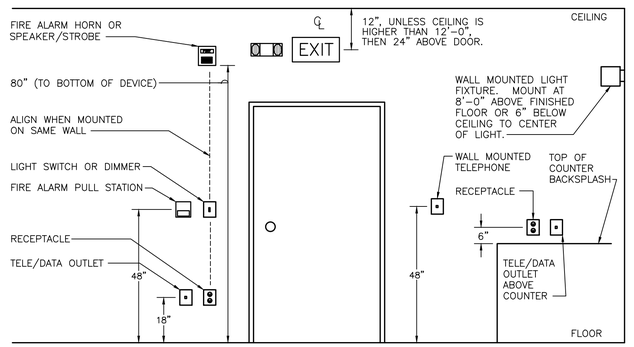
	CONDUIT AND/OR WIRING SYSTEM CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS. NUMBER OF TICKS INDICATED NUMBER OF CONDUCTORS, HOT AND NEUTRAL. NO TICKS INDICATES TWO CONDUCTORS (GROUND WIRES NOT SHOWN)
	CONDUIT AND/OR WIRING SYSTEM CONCEALED BELOW FLOOR OR FLOOR SLAB.
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB. TERMINATE WITH BUSHING OR CAP IF UNDERGROUND.
	BREAK IN CONDUIT, SEE PLAN FOR CONTINUATION.
	NON-RIGID RACEWAY SYSTEM
	BRANCH CIRCUIT HOMERUN TO PANEL.
J J	JUNCTION BOX SIZED PER NEC.
S	SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER 1221, OR EQUAL.
S_3	THREE WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1223, OR EQUAL.
S_4	FOUR WAY SWITCH, 20 AMP, 120/277 VOLT, COOPER 1224, OR EQUAL.
S_D	DIMMER SWITCH, 1200W, 120V. LUTRON NT-SERIES, UNLESS OTHERWISE NOTED. PROVIDE DOUBLE GANG U-BOX FOR DIMMERS 1600W AND ABOVE.
S_M	FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH O.L.'S
S_{OC}	SENSOR SWITCH OR EQUAL. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY MANUAL ON-AUTO OFF-30MIN. TIMEOUT.
S_{2OC}	SENSOR SWITCH OR EQUAL. WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY CAPABLE OF 0-10V DIMMING CONTROL. MANUAL ON-AUTO OFF-30MIN. TIMEOUT.
KC	SENSOR SWITCH OR EQUAL. CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY MANUAL VIA WALL SWITCH AUTO OFF-30MIN. TIMEOUT. 2000 SQFT COVERAGE. PROVIDE POWER PACKS AND LOW VOLTAGE CONNECTIONS AS REQUIRED.
	DUPLEX RECEPTACLE, 15 AMP, 120 VOLT (USE 20 AMP FOR SINGLE RECEPTACLE ON A CIRCUIT.) MOUNT 18" A.F.F., U.O.N., COOPER 5252 OR EQUAL.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER BACKSPLASH, OR AT 48" A.F.F. U.O.N., COOPER 5252 OR EQUAL.
	DOUBLE DUPLEX RECEPTACLE MOUNT AT 18" A.F.F. TWO NEMA 5-15R DUPLEX RECEPTACLES IN A COMMON BOX AND COVER PLATE.
GFCI	GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE. NEMA 5-20R DUPLEX. ALL RECEPTACLES INSTALLED OUTSIDE, WITHIN 6' OF A SINK OR IN A KITCHEN SHALL BE GFCI.
EWC	GROUND FAULT NEMA 5-20R DUPLEX RECEPTACLE FOR ELECTRIC WATER COOLER COORDINATE LOCATION WITH PLUMBING CONTRACTOR.
USB	DOUBLE DUPLEX RECEPTACLE MOUNT AT 18" A.F.F., U.O.N. COOPER TR7745 OR EQUAL.
WP	WEATHERPROOF RECEPTACLE. NEMA 5-15R DUPLEX. COVER SHALL BE COOPER #1991 WHERE MOUNTED HORIZONTAL AND #4966 WHERE MOUNTED VERTICAL.
	DUPLEX RECEPTACLE MOUNTED IN "F" FOR FLOOR AND "C" FOR CEILING. FLOOR BOX SHALL BE CAST ALUMINUM WITH BRASS COVER.
M	FRACTIONAL HORSEPOWER MOTOR CONNECTION.
3	MOTOR CONNECTION, NUMBER INDICATES HORSEPOWER.
	CONNECTION FOR WATER HEATER, VOLTAGE, PHASE AND SIZE AS INDICATED.
	CONNECTION FOR WALL HEATER, VOLTAGE, PHASE AND SIZE AS INDICATED.
TV	TELEVISION OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT AT 18" A.F.F. WITH 3/4" E.C. TO ABOVE ACCESSIBLE CEILING. CABLE PROVIDED BY OTHERS.
	TELE/DATA OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT AT 18" A.F.F. WITH 3/4" E.C. TO ABOVE ACCESSIBLE CEILING. CABLE PROVIDED BY OTHERS.
	TELE/DATA OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT ABOVE COUNTER BACKSPLASH OR AT HEIGHT NOTED, ALL OTHER THE SAME AS ABOVE.
	TELE/DATA OUTLET MOUNTED IN "F" FOR FLOOR AND "C" FOR CEILING. FLOOR BOX SHALL BE CAST ALUMINUM WITH BRASS COVER.
F	FIRE ALARM MANUAL STATION, MOUNT 48"A.F.F.
FH	FIRE ALARM HORN-STROBE COMBINATION, 15CD, MOUNT 80" TO BOTTOM.
S	FIRE ALARM STROBE, 15CD, MOUNT 80" TO BOTTOM.
FB	FIRE ALARM BELL, ALIGN WITH BOTTOM OF STOBES.
S	FIRE ALARM SMOKE DETECTOR, CEILING MOUNTED.
S_D	FIRE ALARM DUCT SMOKE DETECTOR.
H	FIRE ALARM HEAT DETECTOR, CEILING MOUNTED.
FS	FIRE ALARM FLOW SWITCH ON SPRINKLER SYSTEM.
TS	FIRE ALARM TAMPER SWITCH ON SPRINKLER SYSTEM.
DH	FIRE ALARM DOOR HOLD OPEN DEVICE.
	FIRE ALARM DUCT DETECTOR REMOTE INDICATING LIGHT.
RA	FIRE ALARM REMOTE ANNUNCIATOR.
	NONFUSED DISCONNECT SWITCH, SIZE AS INDCIATED ON DRAWINGS, NEMA 1 ENCLOSURE U.O.N.
	FUSED DISCONNECT SWITCH, SIZE AS INDICATED ON DRAWINGS, FUSE PER NAMEPLATE DATA OR AS INDICATED, NEMA 1 ENCLOSURE U.O.N.
	ENCLOSED CIRCUIT BREAKER, SIZE AS INDICATED ON DRAWINGS, NEMA 1 ENCLOSURE U.O.N.
	LIGHTING AND/OR POWER PANEL BOARD, SURFACE MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.
	RISER DIAGRAM.
	WALL MOUNTED UTILITY METER. PLYWOOD TELEPHONE OR DATA BACKBOARD. SIZE AS INDICATED ON THE RESPECTIVE

	ACRYLIC LENSED FLUORESCENT LIGHTING FIXTURE. LETTER IS FIXTURE TYPE, SEE LIGHT FIXTURE SCHEDULE. SUSPEND TWO OPPOSITE CORNERS WITH #10 AWG WIRE TO STRUCTURE AND ATTACH THE REMAINING TWO CORNERS TO THOSE WIRES. GRID ALONE SHALL NOT SUPPORT FIXTURE.
	ROUND RECESSED OR SURFACE MOUNTED LIGHT FIXTURE. LETTER INDICATES FIXTURE TYPE, SEE LIGHT FIXTURE SCHEDULE. INDEPENDENTLY SUPPORT FIXTURE TO STRUCTURE UNLESS SURFACE MOUNTED TO A STRUCTURAL CEILING.
	WALL MOUNTED ROUND LIGHT FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.
	WALL MOUNTED LINEAR LIGHT FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.
	LIGHTING TRACK WITH NUMBER OF FIXTURES AS INDICATED. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.
	FIXTURE WITH INTEGRAL 600 LUMEN BATTERY INVERTER AND/OR ON EMERGENCY LIGHTING CIRCUIT. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE FOR TYPE AND FOR BATTERY REQUIREMENT. SUPPORT FIXTURES IN SAME MANNER AS LISTED ABOVE.
	WALL MOUNTED EMERGENCY LIGHTING BATTERY PACK FIXTURE, SEE LIGHT FIXTURE SCHEDULE.
	CEILING OR WALL MOUNTED EXIT SIGN RESPECTIVELY. SOLID SPACES INDICATE FACES. PROVIDE ARROWS AS INDICATED ON PLANS. SEE LIGHT FIXTURE SCHEDULE.
	WALL MOUNTED COMBINATION EMERGENCY BATTERY PACK AND EXIT SIGN. SEE LIGHT FIXTURE SCHEDULE.
	GROUND MOUNTED FLOOD LIGHT, SEE DETAIL FOR MOUNTING. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.
	WALL MOUNTED SPEAKER HORN.
S	RECESSED CEILING MOUNTED SPEAKER.
HS	WALL MOUNTED SPEAKER.
IC	FLUSH MOUNTED WALL INTERCOM SWITCH.
MI	MASTER INTERCOM AND DIRECTORY UNIT.
VC	VOLUME CONTROL.
M	FLOOR MOUNTED MICROPHONE OUTLET.
HM	WALL MOUNTED MICROPHONE OUTLET.

ABBREVIATIONS

A	AMPERE
AF	AMP FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
CKT	CIRCUIT
EWC	ELECTRIC WATER COOLER
FLA	FULL LOAD AMPS
FPN	FUSE PER NAMEPLATE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
G	GROUND
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KCMIL	THOUSAND CIRCULAR MILS
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTS	MANUAL TRANSFER SWITCH
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NL	NIGHT LIGHT
NO	NORMALLY OPEN
#	NUMBER
NTS	NOT TO SCALE
P	POLE
ø	PHASE
PNL	PANELBOARD
SCWT	SCREW COVER WIRE TROUGH
SPD	SURGE PROTECTION DEVICE
SW	SWITCH
TELE/DATA	TELEPHONE/DATA
TYP	TYPICAL
UG	UNDERGROUND
V	VOLT
UON	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF
XFMR	TRANSFORMER
3R	NEMA 3R ENCLOSURE

NOTES:
1. SEE DEVICE MOUNTING ELEVATION FOR MOUNTING HEIGHTS.
2. SEE SPECIFICATIONS FOR DEVICE COLOR AND COVER PLATE STYLE.



NOTES:
1. ALL DIMENSIONS ARE TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.

1 E001 DEVICE MOUNTING ELEVATION
NO SCALE

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No.	Date	Description

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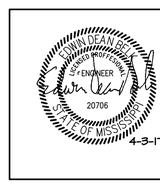


KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Electrical Specifications and Symbols

Phase
Construction Documents

Project No.	12-072
Prepared by	MSM
Checked by	EDB
Date	April 3, 2017

Sheet No.
E001

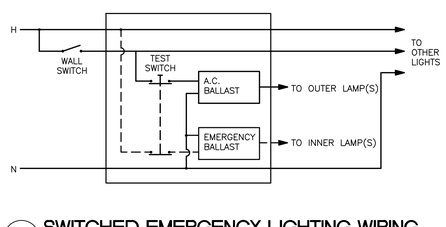
Renovation of the Swami Narayan Temple

LIGHT FIXTURE SCHEDULE

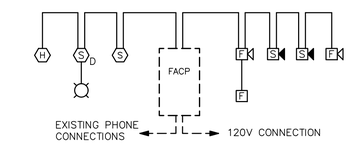
TYPE	MANUFACTURER	CATALOG NUMBER	LAMPS	BALLASTS	FIXTURE WATTAGE	VOLTAGE	DESCRIPTION
A	CREE LIGHTING OR EQUAL	S-DL6-42L-30K SDL6T-M-SS-C	LED 3,560 LUMENS 3000K	N/A	42W	120V	RECESSED 6" APERTURE LED DOWNLIGHT. 0-10V DIMMING.
B	CREE LIGHTING OR EQUAL	ESA-ADR-MD-6-14-C-120-SSGC -WF-C-30K	LED 1,207 LUMENS 3000K	N/A	28W	120V	RECESSED 6" APERTURE LED DOWNLIGHT.
C	RENOVA LIGHTING OR EQUAL	RVN22-N-L060-UNV-DM-C30-AF	LED 6,000 LUMENS 3000K	N/A	50W	120/277V	RECESSED LED 2X2 ARCHITECTURAL TROFFER. 0-10V DIMMING.
D	RENOVA LIGHTING OR EQUAL	RVN24-N-L040-UNV-DM-C30-AF	LED 4,000 LUMENS 3000K	N/A	34W	120/277V	RECESSED LED 2X4 ARCHITECTURAL TROFFER. 0-10V DIMMING.
F	CREE LIGHTING OR EQUAL	ESA-ADR-MD-4-14-C-120-SSGC -WF-C-30K	LED 1,175 LUMENS 3000K	N/A	28W	120V	RECESSED 4" APERTURE LED DOWNLIGHT.
G	CREE LIGHTING OR EQUAL	S-DL4-34L-30K SDL4T-M-SS-C	LED 2,730 LUMENS 3000K	N/A	34W	120V	RECESSED 4" APERTURE LED DOWNLIGHT. 0-10V DIMMING.
H	CORONET LIGHTING OR EQUAL	CCU LED-4FT-LTG1-3000K-120	LED 3,665 LUMENS 3000K	N/A	29W	120V	4'-0" SURFACE MOUNTED LED FIXTURE.
J	CORONET LIGHTING OR EQUAL	CCU LED-2FT-LTG1-3000K-120	LED 1,832 LUMENS 3000K	N/A	15W	120V	2'-0" SURFACE MOUNTED LED FIXTURE.
K	CORONET LIGHTING OR EQUAL	S LED-8FT-LTG1-3000K-120	LED 7,800 LUMENS 3000K	N/A	70W	120V	8'-0" LED STRIP FIXTURE.
	SURE-LITES OR EQUAL	LPX SERIES	LED		1.31W	120V	LED EXIT SIGN POLYCARBONATE HOUSING WITH SELF-CONTAINED POWER PACK FOR 90MIN OPERATION. NICAD BATTERY. WHITE HOUSING. RED LETTERS.
	SURE-LITES OR EQUAL	SELW SERIES	LED		0.5W	120V	EXTERIOR EMERGENCY LIGHT WITH BATTERY BACKUP, LED AND UL WET LABEL, BLACK FINISH.
	SURE-LITES OR EQUAL	CU2-LED SERIES	LED		2.5W	120V	WALL MOUNTED SELF CONTAINED EMERGENCY LIGHT POLYCARBONATE HOUSING WITH SELF-CONTAINED POWER PACK FOR 90MIN. OPERATION. WHITE HOUSING.
	SURE-LITES OR EQUAL	APC7 SERIES	LED		1.31W	120V	WALL MOUNTED SELF CONTAINED EXIT SIGN AND EMERGENCY LIGHT COMBO UNIT. POLYCARBONATE HOUSING WITH SELF-CONTAINED POWER PACK FOR 90MIN. OPERATION. WHITE HOUSING.

FIXTURE NOTES:

1. ALL FLUORESCENT LAMPS SHALL BE T8 OCTRON XPS/ECO 3500°K AS SPECIFIED. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC AS SPECIFIED. SUBMITTAL SHEETS SHALL BE SUBMITTED WITH FIXTURE SUBMITTALS. FLUORESCENT LAMP AND BALLAST WARRANTY SHALL BE COMPLETED BY CONTRACTOR AND TURNED OVER OWNER AT END OF PROJECT.
2. SUBSTITUTIONS MUST BE EQUAL IN CONSTRUCTION, FINISH, ENERGY USAGE AND PHOTOMETRY. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO THE ENGINEER, WITH CUTSHEETS AND PHOTOMETRY. THE ENGINEER MUST RECEIVE THESE WITH TIME ALLOWED TO REVIEW AND ISSUE A WRITTEN APPROVAL BACK TO THE SUBMITTING PARTY TEN(10) DAYS PRIOR TO BID. SUBSTITUTE FIXTURES SHALL BE LISTED SEPARATELY AND UNIT PRICED AT TIME OF BID, SO THAT THE ENGINEER AND OWNER CAN MAKE AN INFORMED DECISION. NO SUBSTITUTIONS WILL BE CONSIDERED AFTER THE 10 DAY PRIOR BID PROCESS ENDED.
3. ALL INCANDESCENT LIGHT FIXTURES SHALL HAVE AN U.L. LABEL INDICATING THAT THE LAMP WATTAGE SPECIFIED ABOVE IS THE MAXIMUM ALLOWABLE IN FIXTURE.
4. ALL 3 AND 4 LAMP ELECTRONIC BALLASTS SHALL HAVE INBOARD/OUTBOARD SWITCHING AS INDICATED ON THE DRAWINGS. TANDEM FIXTURES ARE ALLOWED TO FACILITATE INBOARD/OUTBOARD SWITCHING.
5. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT FIXTURE LOCATIONS.
6. ALIGN ALL HORIZONTAL FLUORESCENT LIGHTS SO THAT THE LAMPS ARE ALIGNED IN THE SAME DIRECTION.
7. ALL METAL HALIDE LAMPS SHALL HAVE A CRI OF NOT LESS THAN 70.
8. ALL ELECTRONIC BALLAST FOR T5(5/8" DIAMETER) LAMPS AND BELOW SHALL HAVE END OF LIFE SHUTDOWN PROTECTION.
9. SUSPEND TWO OPPOSITE CORNERS WITH WIRE TO STRUCTURE. DO NOT ALLOW GRID ALONE TO SUPPORT FIXTURE.
10. WHERE FIXTURE IS INDICATED AS EMERGENCY PROVIDE AN 1100 LUMEN INVERTER BATTERY PACK AND CONNECT AS INDICATED ON DETAIL THIS SHEET.
11. FIXTURE FLANGES AND TRIMS SHALL MATCH CEILING TYPES.
12. THE CONTRACTOR SHALL VERIFY THE LEAD TIME OF ALL PRODUCTS SPECIFIED IN THIS SCHEDULE AT THE TIME OF PACKAGE QUOTE. DURING THE BID PROCESS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DELIVERY/SCHEDULING ISSUES. NO SUBSTITUTIONS WILL BE ALLOWED DUE TO LACK OF COORDINATION OF DELIVERY DATES AND CONSTRUCTION SCHEDULE AFTER BID. ALL EXPEDITED EXPENSES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

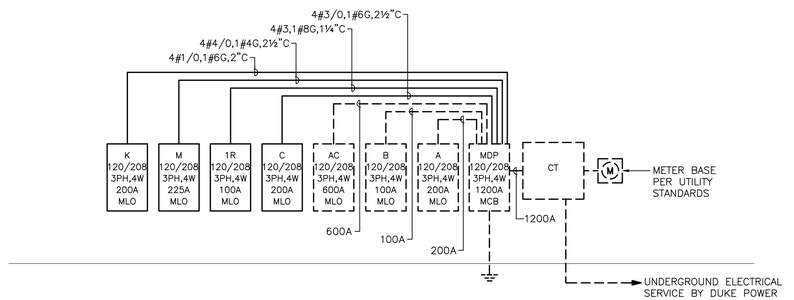


3 E002 SWITCHED EMERGENCY LIGHTING WIRING
NO SCALE



FIRE ALARM RISER NOTES:
1. FACP HAS A MINIMUM 24HR. BATTERY BACKUP.
2. ALL ITEMS INDICATED DASHED ARE EXISTING TO REMAIN.
3. FACP IS CONNECTED TO A UL APPROVED CENTRAL STATION.
4. ZONE PER NFPA 72 AND MANUFACTURER'S RECOMMENDATIONS WITH NO ONE ZONE EXCEEDING 15,000 S.F. PER FLOOR.
5. SEE PLANS FOR EXACT DEVICE QUANTITY AND LOCATIONS.
6. CONTRACTOR SHALL MODIFY EXISTING SYSTEM AS REQUIRED TO HANDLE THE NEW FIRE ALARM DEVICES.
7. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2 E002 FIRE ALARM RISER DIAGRAM
NO SCALE



1 E002 POWER RISER DIAGRAM
NO SCALE

NOTES:
1. ALL ITEMS INDICATED AS DASHED ARE EXISTING TO REMAIN U.O.N.

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TOWN DEAN BELL REGISTERED PROFESSIONAL ENGINEER 20706 STATE OF MISSISSIPPI
4-3-17

KEY PLAN

BAPS, Inc.
Reno□ation o□the S□ami Narayan Temple

2390 Green□ay Dri□e
□ackson, MS 39204

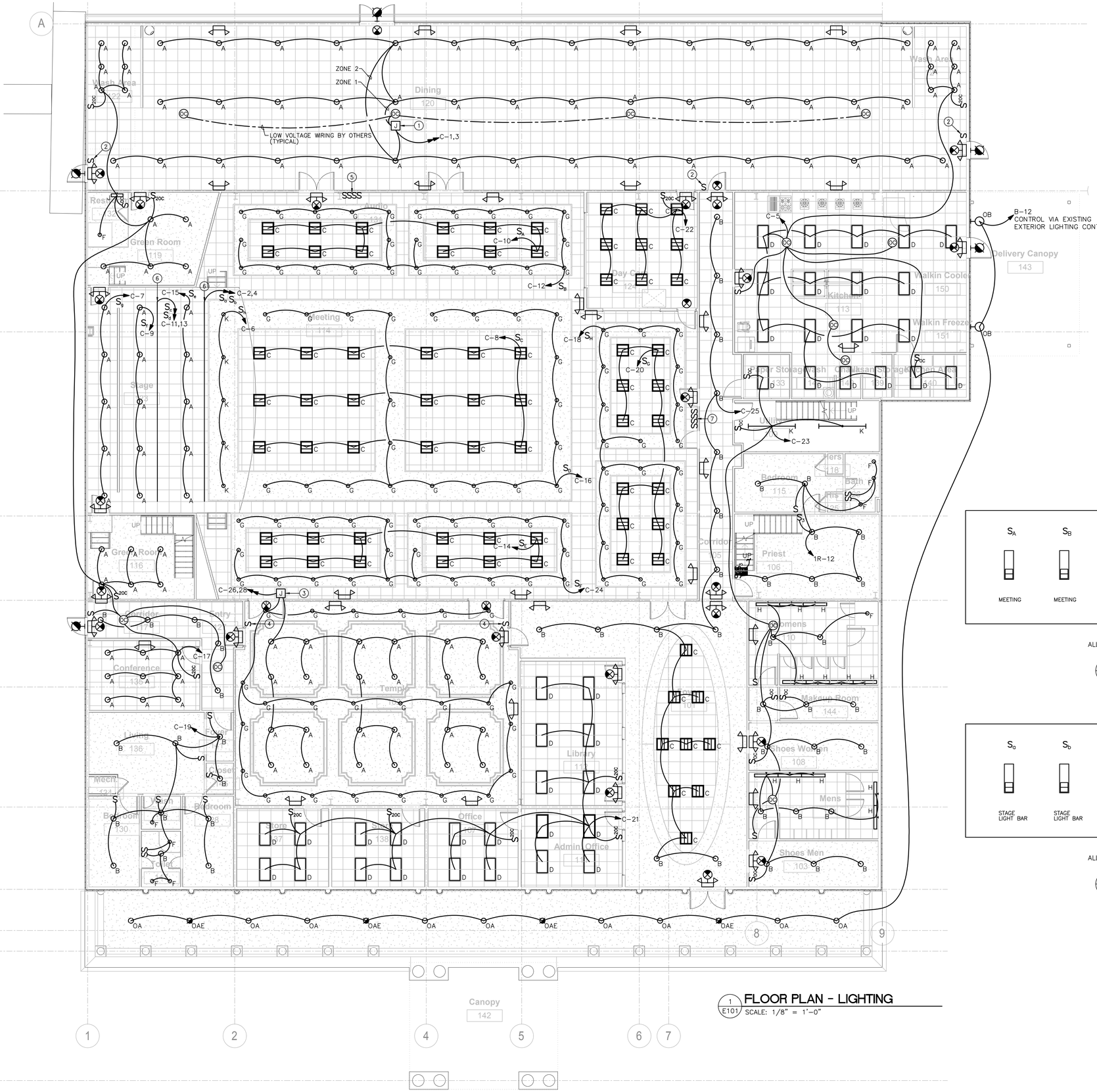
Dra□ing Title
Details and Schedules

Phase
Construction Documents

Pro□ect No.	12-072
Prepared by	MSM
Checked by	EDB
Date	April 3, 2017

Sheet No. E002

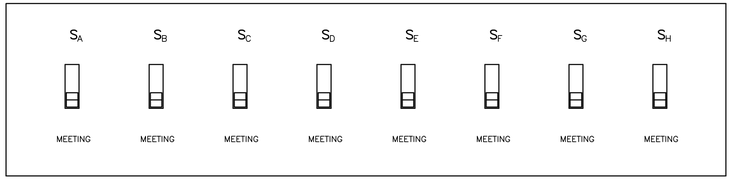
Reno□ation o□the S□ami Narayan Temple



1 E101 **FLOOR PLAN - LIGHTING**
SCALE: 1/8" = 1'-0"

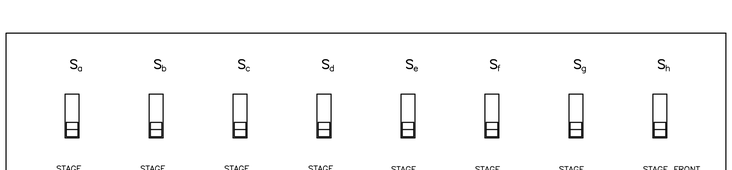
GENERAL NOTES:
1. EXIT/EMERGENCY LIGHT FIXTURE SHALL BE CONNECTED TO LOCAL BRANCH CIRCUIT AHEAD OF ALL CONTROLS.

(#) KEY NOTES:
1. CRESTRON LIGHTING CONTROLLER #GLPAC4-DKP-DKP-DKP-4OS (OR EQUAL).
2. CRESTRON LIGHTING CONTROL PAD #DKP (OR EQUAL).
3. CRESTRON LIGHTING CONTROLLER #GLPAC4-DKP-DKP-4OS (OR EQUAL).
4. CRESTRON LIGHTING CONTROL PAD #DKP (OR EQUAL).
5. SEE STAGE SWITCH BANK DETAIL #2 THIS SHEET.
6. STAGE LIGHTING BAR. COORDINATE EXACT NUMBER OF FIXTURES WITH THE OWNER PRIOR TO ROUGH-IN. PROVIDE FIXTURES AS SELECTED BY THE OWNER.
7. SEE SWITCH BANK DETAIL #3 THIS SHEET.



ALL SWITCHES SHALL BE DIMMER TYPE AS SPECIFIED ON E002.

3 E101 **STAGE SWITCH BANK DETAIL**
NO SCALE



ALL SWITCHES SHALL BE DIMMER TYPE AS SPECIFIED ON E002.

2 E101 **STAGE SWITCH BANK DETAIL**
NO SCALE

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TOWN DEAN DAVIS
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STATE OF MISSISSIPPI
20706
4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
Floor Plan - Lighting

Phase
Construction Documents

Project No.	12-072
Prepared by	MSM
Checked by	EDB
Date	April 3, 2017

Sheet No.
E101

Renovation of the Swami Narayan Temple

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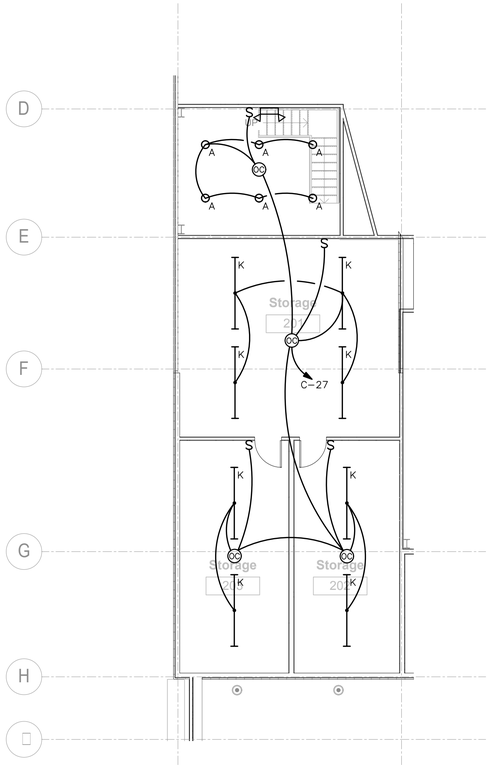
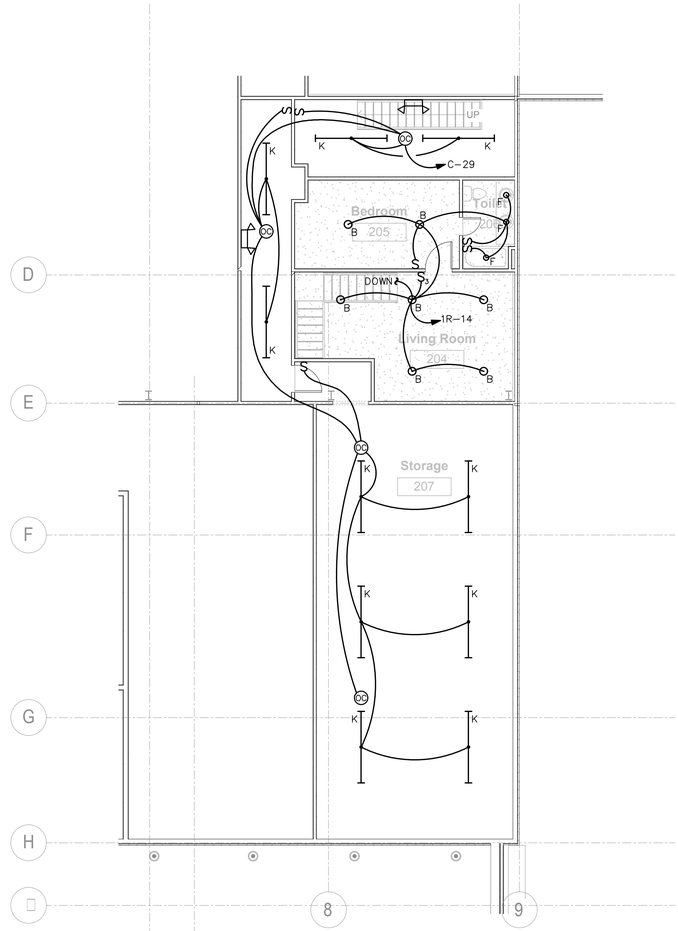


2 E102 MEZZANINE PLAN - LIGHTING
SCALE: 1/8" = 1'-0"



1 E102 MEZZANINE PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

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KEY PLAN

BAPS, Inc.
Reno ation o the S ami Narayan Temple

2390 Green ay Dri e
ackson, MS 39204

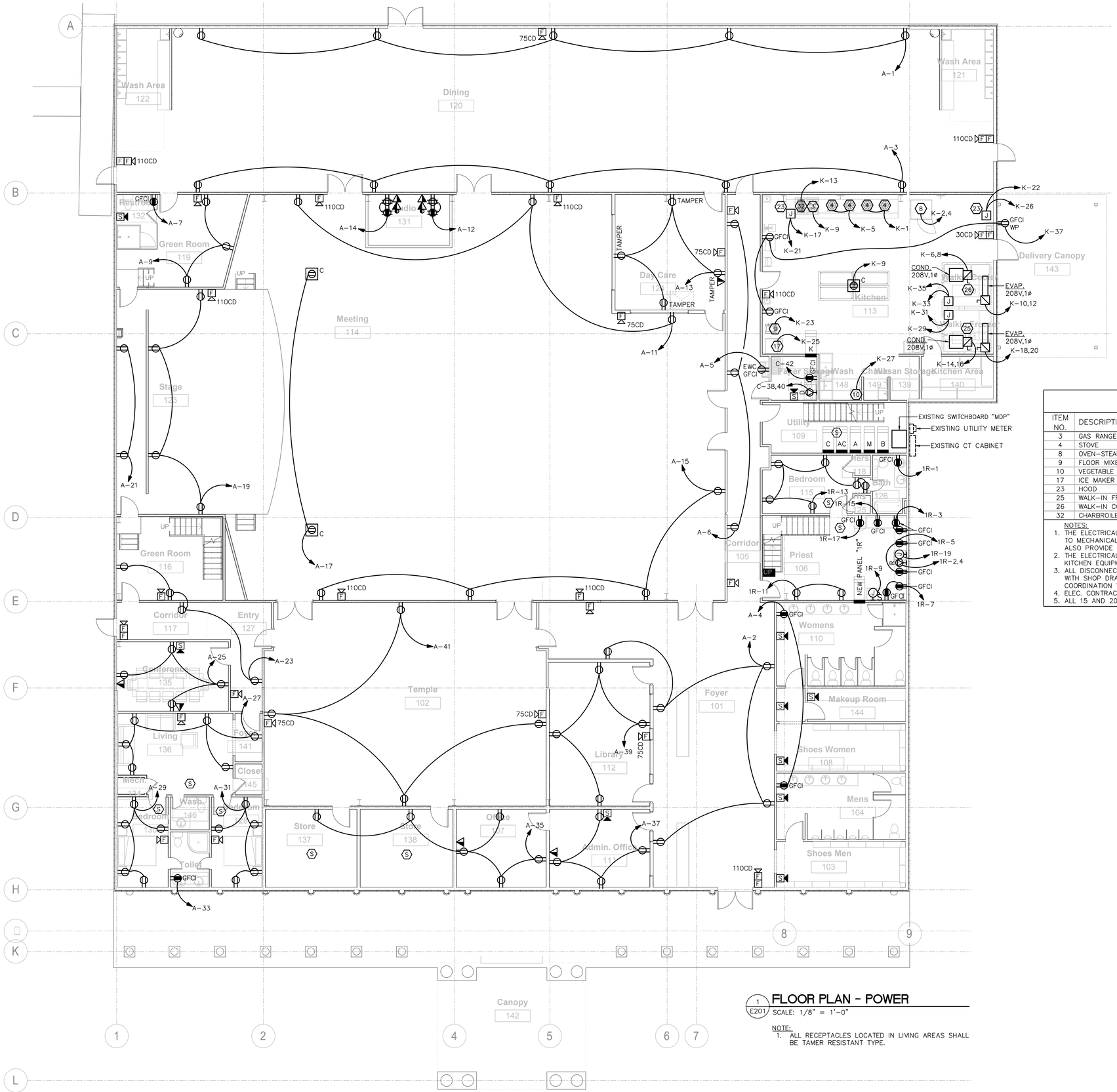
Dra ing Title
Mezzanine Plans - Lighting

Phase
Construction Documents

Pro ect No.	12-072
Prepared by	MSM
Checked by	EDB
Date	April 3, 2017

Sheet No.
E102

Reno ation o the S ami Narayan Temple



1 E201 **FLOOR PLAN - POWER**

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

NOTE:
1. ALL RECEPTACLES LOCATED IN LIVING AREAS SHALL BE TAMER RESISTANT TYPE.

KITCHEN EQUIPMENT SCHEDULE

ITEM NO.	DESCRIPTION	LOAD KW	LOAD AMP	LOAD HP	VOLT	PHASE	MTG. HT.	REMARKS
3	GAS RANGE	–	–	–	120V	1	–	–
4	STOVE	–	–	–	120V	1	–	–
8	OVEN–STEAMER COMBINATION	–	–	–	208V	1	–	–
9	FLOOR MIXER	–	–	–	120V	1	–	–
10	VEGETABLE PEELER	–	–	–	120V	1	–	–
17	ICE MAKER	–	–	–	120V	1	–	–
23	HOOD	–	–	–	–	–	–	–
25	WALK–IN FREEZER	–	–	–	–	–	–	–
26	WALK–IN COOLER	–	–	–	–	–	–	–
32	CHARBROILER	–	–	–	120V	1	–	–

NOTES:
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, RECEPTACLE, ETC. TO MECHANICAL/PLUMBING AND KITCHEN EQUIPMENT AS REQUIRED. THE ELECTRICAL CONTRACTOR SHALL ALSO PROVIDE ALL CORDS, PLUGS, CABLES, ETC. ON EQUIPMENT REQUIRING SUCH ITEMS.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL CONNECTIONS TO ALL MECHANICAL/PLUMBING AND KITCHEN EQUIPMENT AS REQUIRED.
3. ALL DISCONNECT SWITCHES, FUSE SIZES, PLUG CONFIGURATIONS, BREAKER SIZES, ETC., SHALL BE COORDINATED WITH SHOP DRAWINGS PRIOR TO INSTALLING. ANY EQUIPMENT INSTALLED INCORRECTLY BECAUSE OF LACK OF COORDINATION WILL BE REMOVED AND INSTALLED CORRECTLY AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
4. ELEC. CONTRACTOR SHALL PULL A GROUND AND A NEUTRAL WITH ALL CIRCUITS, WHETHER SO DESIGNATED OR NOT.
5. ALL 15 AND 20 AMP RECEPTACLES IN KITCHEN SHALL BE GFI.

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STATE OF MISSISSIPPI
4-3-17

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

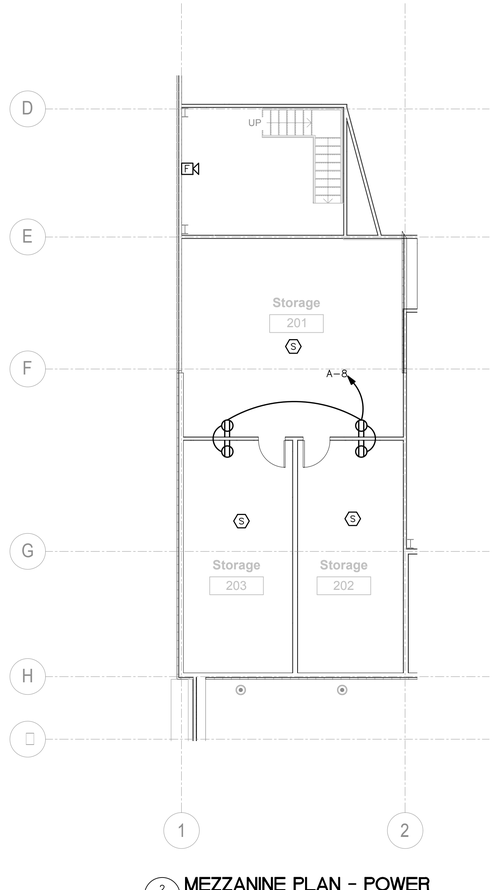
Drawing Title
Floor Plan - Power

Phase
Construction Documents

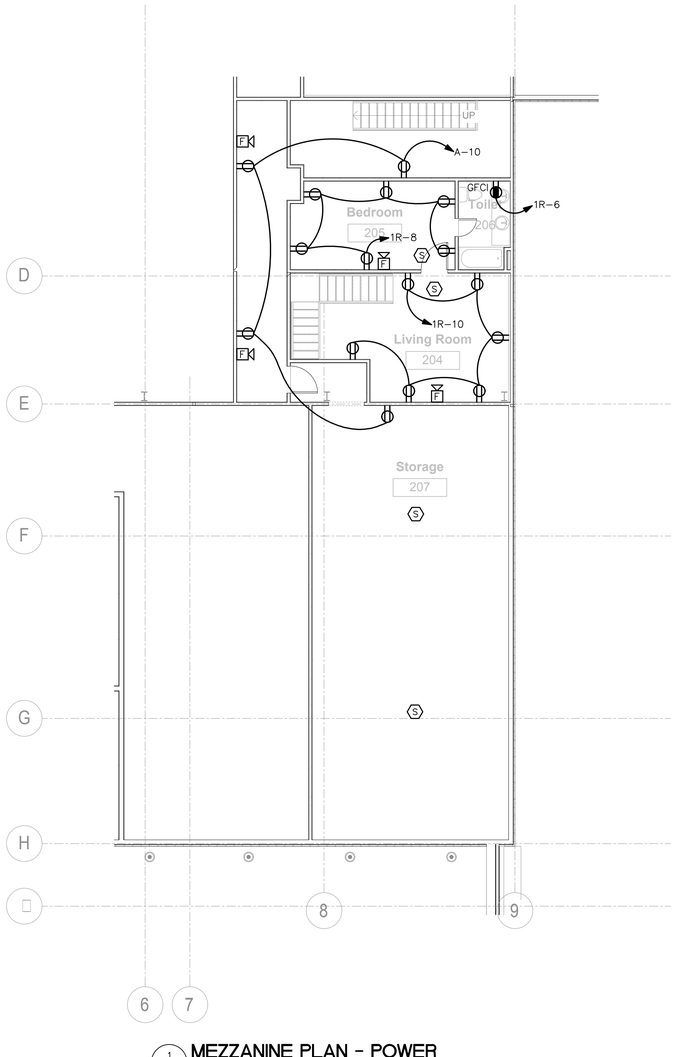
Project No.	12-072
Prepared by	MSM
Checked by	EDB
Date	April 3, 2017

Sheet No.
E201

Renovation of the Swami Narayan Temple



2 E202 MEZZANINE PLAN - POWER
SCALE: 1/8" = 1'–0"



1 E202 MEZZANINE PLAN - POWER
SCALE: 1/8" = 1'–0"

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2015 MISHRA ARCHITECTURE PLLC

KEY PLAN

BAPS, Inc. Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

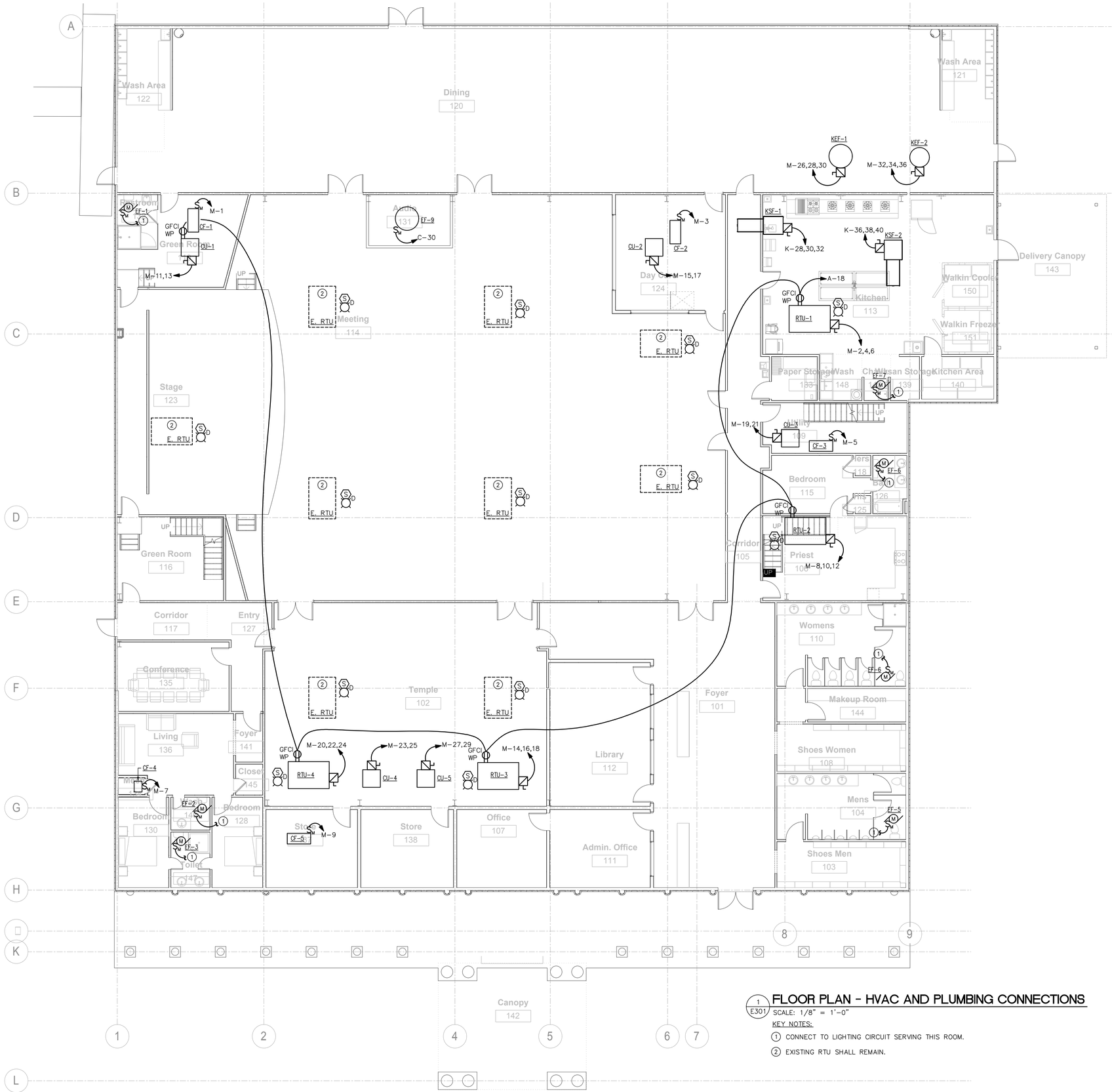
Drawing Title
Mezzanine Plans - Power

Phase
Construction Documents

Project No.	12-072
Prepared by	MSM
Checked by	EDB
Date	April 3, 2017

Sheet No.
E202

Renovation of the Swami Narayan Temple

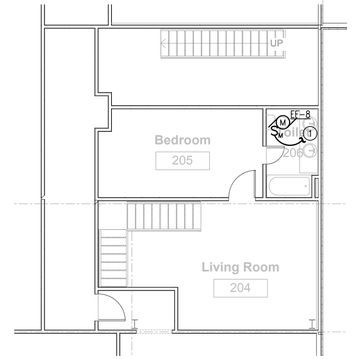


1 E301 FLOOR PLAN - HVAC AND PLUMBING CONNECTIONS

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

KEY NOTES:

1. CONNECT TO LIGHTING CIRCUIT SERVING THIS ROOM.
2. EXISTING RTU SHALL REMAIN.



2 E301 PARTIAL MEZZANINE PLAN - HVAC AND PLUMBING CONNECTION

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

HVAC AND PLUMBING EQUIPMENT SCHEDULE

DEVICE	VOLTAGE	PHASE	KW	FLA	HP	MCA	MOCP	DISCONNECT
EWH-1	208V	1	4.5	.	.	.	.	2-POLE 30A MANUAL MOTOR STARTER
GWH-1	120V	1	.	.	.	.	.	HEAVY DUTY SWITCH
GF-1	120V	1	.	.	.	4.8	15	MANUAL MOTOR STARTER
GF-2	120V	1	.	.	.	4.8	15	MANUAL MOTOR STARTER
GF-3	120V	1	.	.	.	13.6	20	MANUAL MOTOR STARTER
GF-4	120V	1	.	.	.	13.6	20	MANUAL MOTOR STARTER
GF-5	120V	1	.	.	.	4.8	15	MANUAL MOTOR STARTER
CU-1	120V	1	.	.	.	9.0	15	30/F15-2P-3R
CU-2	120V	1	.	.	.	12.0	20	30/F20-2P-3R
CU-3	120V	1	.	.	.	27.0	45	60/F45-2P-3R
CU-4	120V	1	.	.	.	27.0	45	60/F45-2P-3R
CU-5	120V	1	.	.	.	12.0	20	30/F20-2P-3R
EF-1	120V	1	0.128	.	.	.	.	MANUAL MOTOR STARTER
EF-2	120V	1	0.128	.	.	.	.	MANUAL MOTOR STARTER
EF-3	120V	1	0.128	.	.	.	.	MANUAL MOTOR STARTER
EF-4	120V	1	0.350	.	.	.	.	MANUAL MOTOR STARTER
EF-5	120V	1	0.224	.	.	.	.	MANUAL MOTOR STARTER
EF-6	120V	1	0.128	.	.	.	.	MANUAL MOTOR STARTER
EF-7	120V	1	0.128	.	.	.	.	MANUAL MOTOR STARTER
EF-8	120V	1	0.128	.	.	.	.	MANUAL MOTOR STARTER
EF-9	120V	1	1.410	.	.	.	.	MANUAL MOTOR STARTER
RTU-1	208V	3	.	.	.	38.2	60	60/F60-3P-3R
RTU-2	208V	3	.	.	.	25.4	35	60/F35-3P-3R
RTU-3	208V	3	.	.	.	28.2	40	60/F40-3P-3R
RTU-4	208V	3	.	.	.	19.9	30	30/F30-3P-3R
KEF-1	208V	3	.	.	5	.	.	60/F35-3P
KEF-2	208V	3	.	.	2	.	.	30/F15-3P
KSF-1	208V	3	.	.	1.5	.	.	30/F15-3P
KSF-2	208V	3	.	.	3/4	.	.	30/F15-3P

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STATE OF MISSISSIPPI
4-3-17

KEY PLAN

BAPS, Inc.
Renovation of the Swami Narayan Temple

2390 Greenway Drive
Jackson, MS 39204

Drawing Title
HVAC and Plumbing Connections

Phase
Construction Documents

Project No.	12-072
Prepared by	MSM
Checked by	EDB
Date	April 3, 2017

Sheet No.
E301

Renovation of the Swami Narayan Temple

NEW PANEL: **K** | BY: MSM
120/208 VOLT: 3 Ø 4 WIRE TYPE: NQOD AIC: 22,000 | JOB # 16089
RECESSED MOUNTED, 200 AMP MAIN LUGS ONLY NEUTRAL SIZE AMPS 200 | CHECKED BY: EDB DATE: 4/4/2017

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.										REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	KVA RECEPTS	KVA MOTORS	KVA HEAT	KVA KITCHEN	KVA OTHER	KVA SPARE
K	1.0			GAS STOVE (SH)	12	20	1	1		2	2	50	8	OVEN/STEAMER				4.0			K						5.0	
				SHUNT TRIP SPACE				3		4									4.0		K						4.0	
K			1.0	GAS STOVE (SH)	12	20	1	5		6	2	20	12	WALK-IN COND.						1.0	K						2.0	
				SHUNT TRIP SPACE				7		8								1.0			K						1.0	
K		1.0		GAS RANGE (SH)	12	20	1	9		10	2	20	12	WALK-IN EVAP.					1.0		K						2.0	
				SHUNT TRIP SPACE				11		12										1.0	K						1.0	
K	1.0			CHARBROILER (SH)	12	20	1	13		14	2	20	12	WALK-IN COND.				1.0			K						2.0	
				SHUNT TRIP SPACE				15		16									1.0		K						1.0	
K			1.0	HOOD LIGHTS (SH)	12	20	1	17		18	2	20	12	WALK-IN EVAP.						1.0	K						2.0	
				SHUNT TRIP SPACE				19		20								1.0			K						1.0	
K		1.0		HOOD CONTROLS	12	20	1	21		22	1	20	12	HOOD LIGHTS (SH)					1.0		K						2.0	
K			1.0	FLOOR MIXER	12	20	1	23		24				SHUNT TRIP SPACE														1.0	
K	1.0			ICE MAKER	12	20	1	25		26	1	20	12	HOOD CONTROLS				1.0			K						2.0	
K		1.0		PEELER	12	20	1	27		28									0.8								1.0	
K			1.0	WALK-IN LIGHTS	12	20	1	29		30	3	15	12	KSF-1 (SH)						0.8								1.0	
K	1.0			WAL-IN CONTROLS	12	20	1	31		32								0.8										1.0	
K		1.0		WALK-IN LIGHTS	12	20	1	33		34				SHUNT TRIP SPACE														1.0	
K			1.0	WAL-IN CONTROLS	12	20	1	35		36										0.8								1.0	
R				RECEPTS	12	20	1	37		38	3	15	12	KSF-2 (SH)				0.8						0.0						
				SPARE		20	1	39		40									0.8											
				SPARE		20	1	41		42				SHUNT TRIP SPACE																
	4.0	4.0	5.0	SUBTOTALS														9.6	8.6	4.6							31.0		
				TOTALS														4.8	13.6	12.6	9.6								

LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	0.0	1.00	0.0
RECEPTACLES	0.0	0.50	0.0
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	0.0	1.00	0.0
KITCHEN	31.0	0.65	20.2
OTHER	0.0	1.00	0.0
SPARE	0.0	1.00	0.0
TOTAL	31.0		20.2

CALCULATIONS: 20.2 / 0.36 56.0 A X 1.25 = 70.0 A

NOTES:
1. (SH) - INDICATES TO PROVIDE A SHUNT TRIP BREAKER.

EXISTING PANEL: **A** | BY: MSM
120/208 VOLT: 3 Ø 4 WIRE TYPE: EXISTING AIC: EXISTING | JOB # 16089
SURFACE MOUNTED, 200 AMP MAIN LUGS ONLY NEUTRAL SIZE AMPS 200 | CHECKED BY: EDB DATE: 4/4/2017

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.										REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	KVA RECEPTS	KVA MOTORS	KVA HEAT	KVA KITCHEN	KVA OTHER	KVA SPARE
R	1.0			RECEPTS	12	20	1	1		2	1	20	12	RECEPTS	1.0						R			2.0				
R		1.0		RECEPTS	12	20	1	3		4	1	20	12	RECEPTS		0.4					R			1.4				
R			0.2	RECEPTS-EVAC	12	20	1	5		6	1	20	12	RECEPTS			0.6				R			0.8				
R	0.2			RECEPTS	12	20	1	7		8	1	20	12	RECEPTS	0.8						R			1.0				
R		0.6		RECEPTS	12	20	1	9		10	1	20	12	RECEPTS		0.8					R			1.4				
R			0.6	RECEPTS	12	20	1	11		12	1	20	12	RECEPTS			0.8				R			1.4				
R	0.8			RECEPTS	12	20	1	13		14	1	20	12	RECEPTS	0.8						R			1.6				
R		0.8		RECEPTS	12	20	1	15		16	1	20	12	GWH-1		1.0					H			0.8		1.0		
R			0.4	RECEPTS	12	20	1	17		18	1	20	12	REC-ROOF			0.8				R			1.2				
R	0.8			RECEPTS	12	20	1	19		20	1	20		SPARE										0.8					
R		0.4		RECEPTS	12	20	1	21		22	1	20		SPARE										0.4					
R			0.8	RECEPTS	12	20	1	23		24	1	20		SPARE										0.8					
R	0.8			RECEPTS	12	20	1	25		26	1	20		SPARE										0.8					
R		1.2		RECEPTS	12	20	1	27		28	1	20		SPARE										1.2					
R			1.0	RECEPTS	12	20	1	29		30	1	20		SPARE										1.0					
R	1.0			RECEPTS	12	20	1	31		32	1	20		SPARE										1.0					
R		0.2		RECEPTS	12	20	1	33		34	1	20		SPARE										0.2					
R			1.2	RECEPTS	12	20	1	35		36	1	20		SPARE										1.2					
R	0.8			RECEPTS	12	20	1	37		38	1	20		SPARE										0.8					
R		0.8		RECEPTS	12	20	1	39		40	1	20		SPARE										0.8					
R			0.8	RECEPTS	12	20	1	41		42	1	20		SPARE										0.8					
	5.4	5.0	5.0	SUBTOTALS														2.6	2.2	2.2									
				TOTALS														0.0	8.0	7.2	7.2						21.4		1.0	

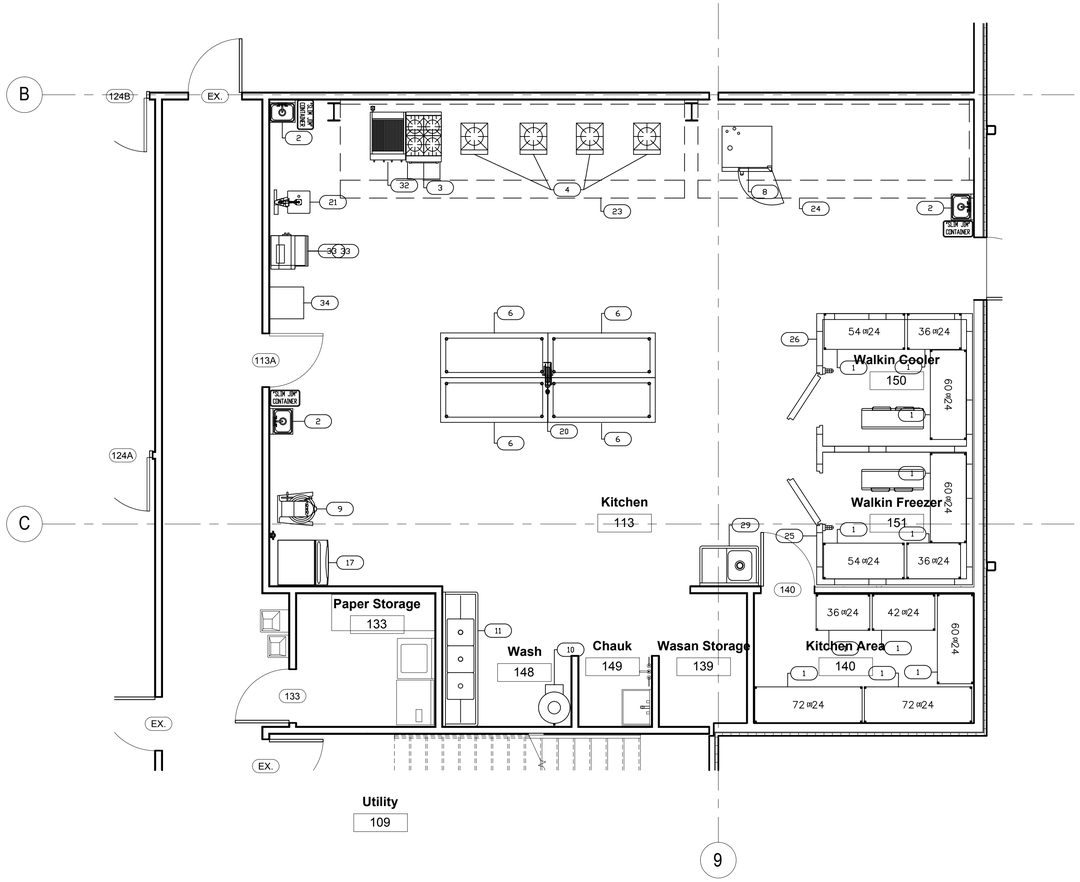
LOAD	KVA CONNECTED	D.F.	KVA NET
LIGHTING	0.0	1.25	0.0
RECEPTACLES	10.0	1.00	10.0
RECEPTACLES	11.4	0.50	5.7
MOTORS	0.0	1.00	0.0
LARGEST MOTOR	0.0	1.75	0.0
HEAT	1.0	1.00	1.0
KITCHEN	0.0	0.65	0.0
OTHER	0.0	1.00	0.0
SPARE	0.0	1.00	0.0
TOTAL	22.4		16.7

CALCULATIONS: 16.7 / 0.36 46.4 A X 1.25 = 58.0 A

NOTES:
1. "EX" INDICATES EXISTING BRANCH CIRCUIT CIRCUIT CONDUCTORS TO REMAIN.
2. (N) INDICATES NEW BREAKER. PROVIDE A NEW BREAKER AS INDICATED TO MATCH EXISTING EQUIPMENT.
NEW ITEMS INDICATED AS **BOLDED** AND ***ITALIC.***
3. PROVIDE A REVISED TYPEWRITTEN DIRECTORY.

EXISTING PANEL: **MDP** | BY: MSM
120/208 VOLT: 3 Ø 4 WIRE TYPE: EXISTING AIC: EXISTING | JOB # 16089
SURFACE MOUNTED, 1200 AMP MAIN BREAKER NEUTRAL SIZE AMPS 1200 | CHECKED BY: EDB DATE: 4/4/2017

LOAD	KVA A	KVA B	KVA C	REMARKS OR EQUIPMENT SERVED	WIRE SIZE	TRIP AMPS	POLES	CIRCUIT NO.										REMARKS OR EQUIPMENT SERVED	KVA A	KVA B	KVA C	LOAD	KVA LIGHTS	KVA RECEPTS	KVA MOTORS	KVA HEAT	KVA KITCHEN	KVA OTHER	KVA SPARE
								1		2									4.0										
				SPARE		100	3	3		4	3	100	EX	EXISTING PANEL "B"		4.0													
								5		6										2.0									
								7		8									***20.5***										
				SPARE		100	3	9		10	***3***	***225***	***4/0***	***NEW PANEL "M"***			***18.8***											
								11		12										***19.8***									
	10.8							13		14						8.8													
		9.4		***NEW PANEL "C"***	***3/0***	***200***	***3***	15		16	3	100	3	NEW PANEL "1R"		6.8													
			10.4					17		18							3.4												
	8.0							19		20						***13.6***													
		7.2		EXISTING PANEL "A"	EX	200	3	21		22	***3***	***150***	***1/0***	***NEW PANEL "K"***			***12.6***											
			7.2					23		24							***9.6***												
	43.0							25		26																			
		43.0		EXISTING PANEL "AC"	EX	600	3	27		28																			
			43.0					29		30																			



EQUIPMENT SCHEDULE

ItemNo	Quantity	Category	Equipment Remarks
1	1lot	WIRE SHELVING	
2	3	HAND SINK	
3	1	4 BURNER RANGE	
4	4	STOCK POT RANGE	
6	4	WORK TABLE	
8	1	1/2 SIZE COMBI OVEN	
9	1	PLANETARY MIXER	
10	1	POTATO PEELER	
11	1	3 COMPARTMENT SINK	
17	1	ICE CUBER W/ BIN & FILTER	
20	1	CEILING MOUNT HOSE REEL	
21	1	TORTILLA PRESS W/ STAND	
23	1	EXHAUST HOOD	
24	1	EXHAUST HOOD	
25	1	WALK IN FREEZER	
26	1	WALK IN COOLER	
29	1	1 COMPARTMENT SINK	
32	1	CHARBROILER	
33	1	DOUGH ROLLER W/ STAND	
34	1	BARRIER FREE WATER FOUNTAIN	

REVISIONS:

NO.	DATE	REMARKS

PROJECT TITLE:
SN TEMPLE
JACKSON, MS

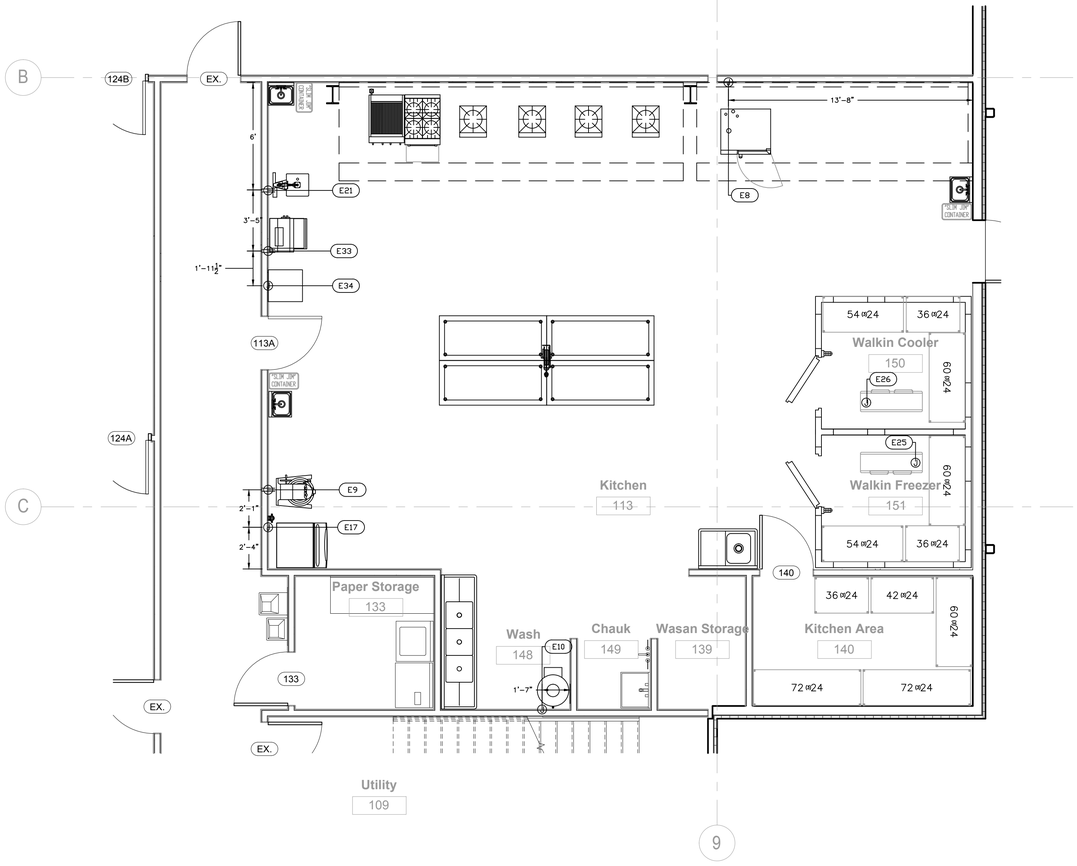
Robert S. Barnes
CFSP
CERTIFIED FOODSERVICE PROFESSIONAL
PROFESSIONAL MEMBER

Design-Planning
Consulting
Associated
Food Equipment & Supplies
228/896-0043

DRAWING TITLE:
FOODSERVICE
EQUIPMENT PLAN

PROJECT NO.:
SCALE: 1/4" = 1'-0"
DR. BY: B.A.T.
CK. BY R.S.B.
DATE: 04/07/17

DRAWING NO.
FS-1



ELECTRICAL SCHEDULE

ItemNo	Quantity	Category	Voltage	Phase	Amps	Electrical AFF	ConnectionType	Electrical Remarks
1	1lot	WIRE SHELVING						
2	3	HAND SINK						
3	1	4 BURNER RANGE						
4	4	STOCK POT RANGE						
6	4	WORK TABLE						
8	1	1/2 SIZE COMBI OVEN	120	1	7.5	24"	DIRECT	
9	1	PLANETARY MIXER	115	1	16.0	24"	5-20P	
10	1	POTATO PEELER	115	1	12.0	24"	DIRECT	
11	1	3 COMPARTMENT SINK						
17	1	ICE CUBER W/ BIN & FILTER	208-230	1	11.1	69"	DIRECT	
20	1	CEILING MOUNT HOSE REEL						
21	1	TORTILLA PRESS W/ STAND	220	1	15.0	48"	6-20P	
23	1	EXHAUST HOOD	120	1	20.0	DFA	DIRECT	LIGHTS AND ACESSORIES
		EXHAUST FAN	208	3	15.8	ROOF	DIRECT	4972 CFM
		SUPPLY FAN	208	3	4.6	ROOF	DIRECT	3978 CFM
24	1	EXHAUST HOOD	120	1	20.0	DFA	DIRECT	
		EXHAUST FAN	208	3	6.1	ROOF	DIRECT	3150 CFM
		SUPPLY FAN	208	3	2.5	ROOF	DIRECT	2520 CFM
25A	1	WALK IN FREEZER	120	1	20.0	DFA	DIRECT	LIGHTS AND ACESSORIES
25B	1	FREEZER EVAPORATOR	208-230	1	0.9	DFA	DIRECT	
25C	1	FREEZER CONDENSER	208-230	1	18.1		DIRECT	VERIFY LOCATION OF CONDENSER
26A	1	WALK IN COOLER	120	1	20.0	DFA	DIRECT	LIGHTS AND ACESSORIES
26B	1	COOLER EVAPORATOR	115	1	1.8	DFA	DIRECT	
26C	1	COOLER CONDENSER	208-230	1	7.4		DIRECT	VERIFY LOCATION OF CONDENSER
29	1	1 COMPARTMENT SINK						
32	1	CHARBROILER						
33	1	DOUGH ROLLER W/ STAND	115	1	8.8	48"	5-15P	
34	1	BARRIER FREE WATER FOUNTAIN	115	1	4.0	8"	DIRECT	

REVISIONS:

NO.	DATE	REMARKS

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SN TEMPLE
JACKSON, MS

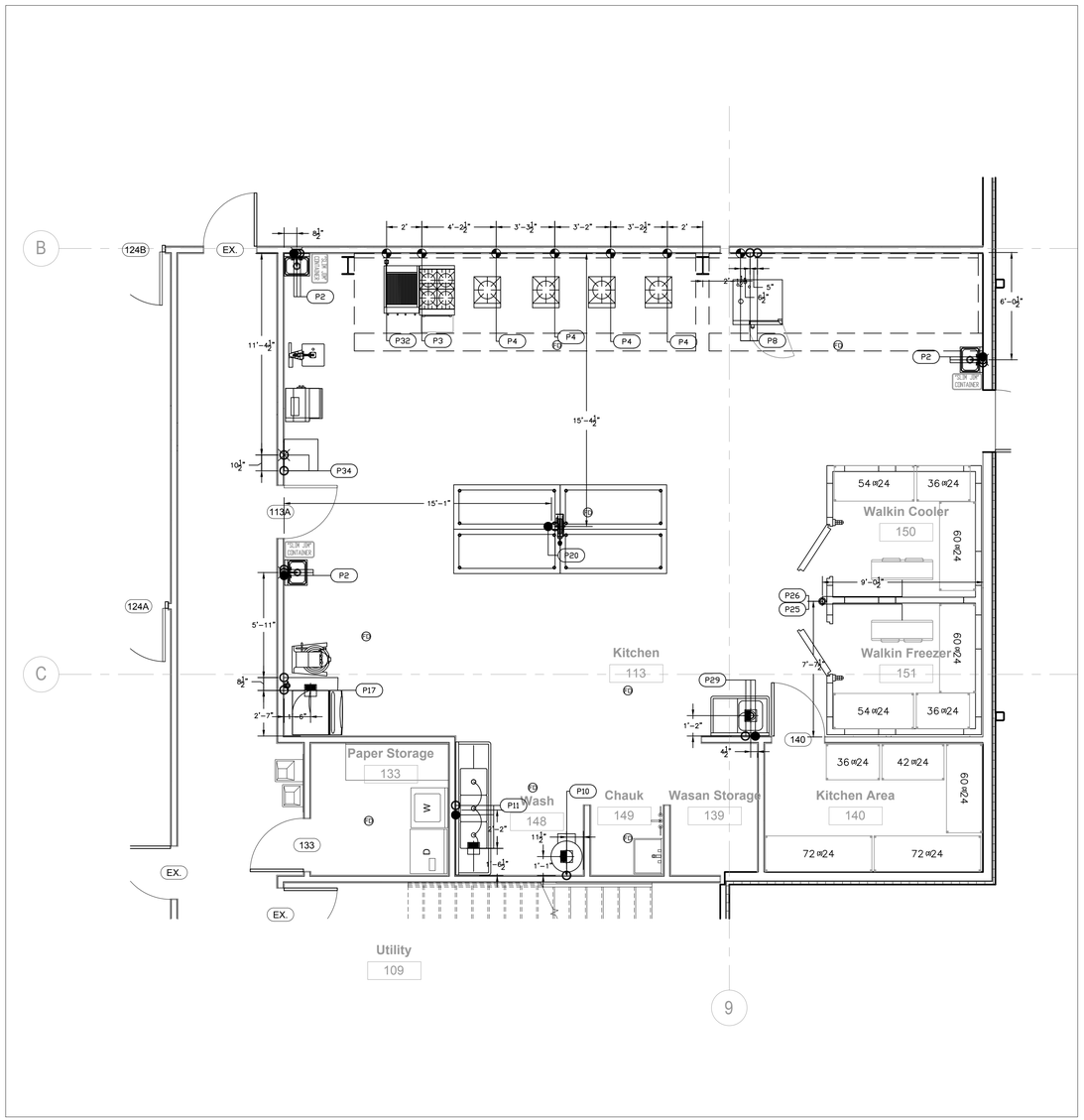
Robert S. Barnes
CFSP
CERTIFIED FOODSERVICE PROFESSIONAL
PROFESSIONAL MEMBER

Design–Planning
Consulting
Associated
Food Equipment & Supplies
228/896-0043

DRAWING TITLE:
FOODSERVICE
ELECTRICAL PLAN

PROJECT NO.:
SCALE: 1/4" = 1'-0"
DR. BY: B.A.T.
CK. BY R.S.B.
DATE: 04/07/17

DRAWING NO.
FS-2



PLUMBING SCHEDULE

ItemNo	Quantity	Category	Cold Water (in)	Cold Water AFF(in)	Hot Water (in)	Hot Water AFF(in)	Indirect Waste (in)	Direct Waste (in)	Direct Waste AFF(in)	Gas Size(in)	Gas AFF(in)	Gas MBTU	Plumbing Remarks
1	1lot	WIRE SHELVING											
2	3	HAND SINK	1/2"	18"	1/2"	18"		1-1/2"	20"				HC4.5, WD1.5
3	1	4 BURNER RANGE								3/4"	29"	145.0	G.75
4	4	STOCK POT RANGE								3/4"	18"	45.0	G.75
6	4	WORK TABLE											
8	1	1/2 SIZE COMBI OVEN	(2)3/4"	(2)24"			2"			3/4"	24"	109.2	C.75, C.75, FS, G.75, 1 FILTERED 1 NON FILTERED
9	1	PLANETARY MIXER											
10	1	POTATO PEELER	1/2"	22"			2"						C.5, FS
11	1	3 COMPARTMENT SINK	1/2"	18"	1/2"	18"	1-1/2"						HC8.5, FS
17	1	ICE CUBER W/ BIN & FILTER	3/8"	60"			1/2", 3/4"						C.375, FS, CONNECT THROUGH FILTER
20	1	CEILING MOUNT HOSE REEL	3/8"	DFA	3/8"	DFA							C.375, H.375
21	1	TORTILLA PRESS W/ STAND											
23	1	EXHAUST HOOD											
24	1	EXHAUST HOOD											
25	1	WALK IN FREEZER					3/4"						HD3
26	1	WALK IN COOLER					3/4"						HD3
29	1	1 COMPARTMENT SINK	1/2"	18"	1/2"	18"	1-1/2"						HC8.5, FS
32	1	CHARBROILER								3/4"	24"	45.0	G.75
33	1	DOUGH ROLLER W/ STAND											
34	1	BARRIER FREE WATER FOUNTAIN	3/8"	20"				1-1/4"	25"				C.375, WD1.25

(HC8.5) = 1/2"HOT & COLD WATER LINES ON 8" CENTERS
(HC4.5) = 1/2"HOT & COLD WATER LINES ON 4" CENTERS
(C.75) = 3/4"COLD WATER LINE
(C.5) = 1/2"COLD WATER LINE
(H.5) = 1/2"HOT WATER LINE
(C.375) = 3/8"COLD WATER LINE

(WD1.5) = 1-1/2" WALL DRAIN FOR HAND SINK
(WD1.25) = 1-1/4" WALL DRAIN FOR HAND SINK
(FS) = SQUARE FLOOR SINK WITH REMOVABLE BASKET
(HD3) = 3" OPEN SITE HUB DRAIN

(G.75) = 3/4" GAS CONNECTION

REVISIONS:
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DRAWING NO.
FS-3
SHEET 3 OF 3