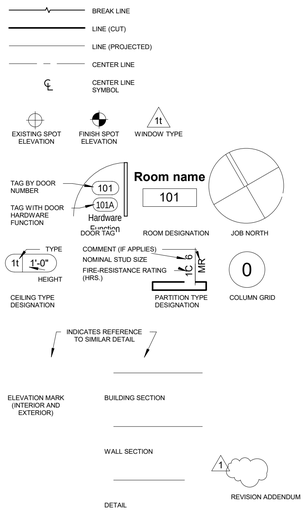


TRU BY HILTON, MONROE, LA

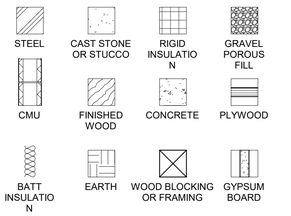
ABBREVIATIONS

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
CER.	CERAMIC	SIDE.	
C.G.	CORNER GUARD	N.T.S.	NOT TO SCALE
C.J.	CONTROL JOINT	O.C.	ON CENTER
CLG.	CEILING	OD.	OUTSIDE DIAMETER
C.M.U.	CONCRETE MASONRY UNIT	O.F.C.I.	OWNER FURNISHED
COL.	COLUMN		CONTRACTOR INSTALLED
CONC.	CONCRETE	OPP.	OPPOSITE
CONT.	CONTINUOUS	O.R.D.	OVERFLOW ROOF DRAIN
CORR.	CORRIDOR	P.L. or PLAM	PLASTIC LAMINATE
C.T.	CERAMIC TILE	PLYWD.	PLYWOOD
DET.	DETAIL	PNT	PAINT
DIA.	DIAMETER	P.S.B.	PENCIL SHARPENER BOARD
DN.	DOWN	P.T.	PRESSURE TREATED
D.S.	DOWNSPOUT	Q.T.	QUARRY TILE
DWG	DRAWING	RAD.	RADIUS
EA.	EACH	R.D.L.	ROOF DRAIN LEADER
E.I.F.S.	EXTERIOR INSULATION AND FINISH SYSTEM	REINF	REINFORCEMENT
		REQD.	REQUIRED
E.J.	EXPANSION JOINT	RES.	RESILIENT
ELEC.	ELECTRICITY	RM.	ROOM
ELEV.	ELEVATOR	R.D.	ROOF DRAIN
E.O.S.	EDGE OF SLAB	R.O.	ROUGH OPENING
EQ.	EQUAL	S.C.	SOLID CORE
EXIST.	EXISTING	SCWD.	SOLID CORE WOOD
EXP.	EXPANSION	S.F.	SQUARE FEET
EXT.	EXTERIOR	SHT.	SHEET
F.D.	FLOOR DRAIN	SIM.	SIMILAR
F.E.	FIRE EXTINGUISHER	ST.	STAIN
F.E.C.	FIRE EXTINGUISHER CABINET	STD.	STANDARD
F.H.C.	FIRE HOSE CABINET	STG.	STAGGER TOP AND BOTTOM
FIN.	FINISH	STL.	STEEL
FL.	FLOOR	STOR.	STORAGE
F.O.B.	FACE OF BRICK	STRUCT.	STRUCTURE
F.O.S.	FACE OF STUD	SUSP.	SUSPENDED
F.R.P.	FIBER REINFORCED PANEL	SYNTH.	SYNTHETIC
		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

SYMBOL LEGEND



MATERIAL LEGEND



ROOM LEGEND

FLOOR \ GUESTROOM TYPE	KING	DOUBLE QUEEN	ACCESSIBLE ROLLIN KING	ACCESSIBLE KING	ACCESSIBLE DOUBLE QUEEN	HEARING IMPAIRED KING	HEARING IMPAIRED DOUBLE QUEEN	TOTAL
FIRST FLOOR	0	0	0	0	0	0	0	0
SECOND FLOOR	13	5	1	0	1	1	0	21
THIRD FLOOR	14	5	0	0	1	0	1	21
FOURTH FLOOR	14	5	0	1	0	0	1	21
FIFTH FLOOR	13	6	0	0	1	1	0	21
TOTAL	54	21	1	1	3	2	2	84
RATIO %	64	25	1	1	4	2	2	100

ACCESSIBLE ROLLIN KING: 1;
ACCESSIBLE ROOMS: 4

TOTAL NUMBER OF ACCESSIBLE ROOMS: 5
TOTAL HEARING IMPAIRED ROOMS: 4

ALL ACCESSIBLE ROOMS ARE EQUIPPED FOR HEARING IMPAIRED AS WELL

FLOOR	AREA (SQUARE FEET)	
First Floor:		8,561
Second Floor:	8,324	
Third Floor:		8,324
Fourth Floor:	8,324	
Fifth Floor:		8,324
GRAND TOTAL:	41,857	

TOTAL SITE AREA IN ACRES: 1.18
TOTAL NUMBER OF ROOMS: 84
TOTAL PARKING: 84 (INCLUDING 4 ADA)
TOTAL NUMBER OF FLOORS: FIVE
OCCUPANCY CLASSIFICATION: R1
TYPE OF CONSTRUCTION: IIA (FULLY SPRINKLERED)

GENERAL NOTES

1. THE CONTRACT DOCUMENTS CONSIST OF THIS SET OF DRAWINGS, THE PROJECT MANUAL, ADDENDA, CONSTRUCTION CHANGE DIRECTIVES, CHANGE ORDERS, THE CONTRACT BETWEEN THE OWNER AND CONTRACTOR, CONDITIONS OF THE CONTRACT AND ANY OTHER INFORMATION WRITTEN AND MUTUALLY AGREED UPON BETWEEN THE OWNER AND CONTRACTOR.

2. THIS SET OF DRAWINGS HAS AN ACCOMPANYING PROJECT MANUAL, WHICH IS AN INTEGRAL PART OF THE CONTRACT DOCUMENTS. ALL ASPECTS OF THESE DRAWINGS ARE DEPENDANT ON THE INFORMATION CONTAINED THEREIN.

3. THESE DRAWINGS ARE COMPLEMENTARY AND INTERRELATED: WORK OF ANY INDIVIDUAL TRADE IS NOT NECESSARILY CONFINED TO SPECIFIC DOCUMENTS, CHAPTERS OR LOCATIONS.

4. IF DISCREPANCIES OR INCONSISTENCIES IN THE DOCUMENTS ARE DISCOVERED, NOTIFY THE ARCHITECT IMMEDIATELY USING THE DESIGNATED"REQUEST FOR INFORMATION" PROCEDURE IDENTIFIED.

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

6. 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.

7. ALL PENETRATIONS IN RATED CONSTRUCTION ARE TO BE SEALED WITH APPROPRIATE MATERIALS AS INDICATED BY THESE DOCUMENTS OR OTHERWISE REQUIRED BY INSPECTORS OR APPLICABLE CODES AND ORDINANCES.

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

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

Drawing List Title & Code

Sheet Number	Sheet Name
T000	Cover Sheet
T001	Firewall Plan 1st & 2nd Floor
T002	Firewall Plan 3rd & 4th Floor
T003	Firewall Plan 5th Floor

Drawing List Architectural

Sheet Number	Sheet Name
A001	Site Plan
A101	First Floor Plan
A102	Second Floor Plan
A103	Third Floor Plan
A104	Fourth Floor Plan
A105	Fifth Floor Plan
A106	Roof Plan
A201	First Floor Reflected Ceiling Plan
A202	Second Floor Reflected Ceiling Plan
A203	Third Floor Reflected Ceiling Plan
A204	Fourth Floor Reflected Ceiling Plan
A205	Fifth Floor Reflected Ceiling Plan
A301	Exterior Elevations
A302	Exterior Elevations
A401	Sections
A402	Sections
A404	Wall Types
A501	Room Layouts
A502	Room Layouts

Drawing List Civil

Sheet Number	Sheet Name
C003	Grading Plan
C004	Utility Plan

Drawing List Structural

Sheet Number	Sheet Name
S001	Structural Notes
S002	Structural Special Inspection
S101	Foundation Plan
S102	First Floor Plan
S201	Second Floor Framing Plan
S202	Third Floor Framing Plan
S203	Fourth Floor Framing Plan
S204	Fifth Floor Framing Plan
S205	Roof Framing Plan
S301	Foundation Sections
S302	Foundation Sections
S401	Masonry Details
S402	Metal Stud Details
S403	Metal Stud Details
S501	Framing Sections
S502	Framing Sections
S503	Framing Sections
S504	Framing Sections
S505	Framing Sections
S701	Exterior Storage & Trash Container Plans & Sections

Drawing List Mechanical

Sheet Number	Sheet Name
M001	Mechanical Notes & Schedules
M002	Mechanical Details
M003	Mechanical Details
M101	Mechanical First Floor Plan
M102	Mechanical Second Floor Plan
M103	Mechanical Third Floor Plan
M104	Mechanical Fourth Floor Plan
M105	Mechanical Fifth Floor Plan
M201	Mechanical Roof Plan
M301	Enlarged Guestroom Plans

Drawing List Plumbing

Sheet Number	Sheet Name
P001	Plumbing Notes & Legend
P002	Plumbing Schedules & Details
P003	Plumbing Details
P100	Level 1-Plumbing Waste, Vent & Fuel Gas
P101	Level 1-Plumbing Water Supply
P102	Level 2-Plumbing
P103	Level 3-Plumbing
P104	Level 4-Plumbing
P105	Level 5-Plumbing
P106	Level Roof-Plumbing
P201	Plumbing Guest Room Plans Sanitary
P202	Plumbing Guest Room Plans Water Supply
P301	Plumbing Riser Diagrams

Drawing List Electrical

Sheet Number	Sheet Name
E001	Specifications and Symbols
E002	Electrical Details
E004	Fire Penetration Details
E101	First Floor Plan-Lighting
E102	Second Floor Plan-Lighting
E103	Third Floor Plan-Lighting
E104	Fourth Floor Plan-Lighting
E105	Fifth Floor Plan-Lighting
E201	First Floor Plan-Power
E202	Second Floor Plan-Power
E203	Third Floor Plan-Power
E204	Fourth Floor Plan-Power
E205	Fifth Floor Plan-Power
E206	Roof Plan-Power
E301	Enlarged Plans-Guest Rooms
E302	Enlarged First Floor Plan-Power
E303	Enlarged First Floor Plan-Power
E401	Power Riser Diagram
E402	Fire Riser Diagram
E403	Telephone and CATV Riser Diagrams

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REVISIONS

No.	Date	Description

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ASHISH MISHRA REG. No. 6455 STATE OF LOUISIANA REGISTERED ARCHITECT

KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Cover Sheet

Phase
Design Development

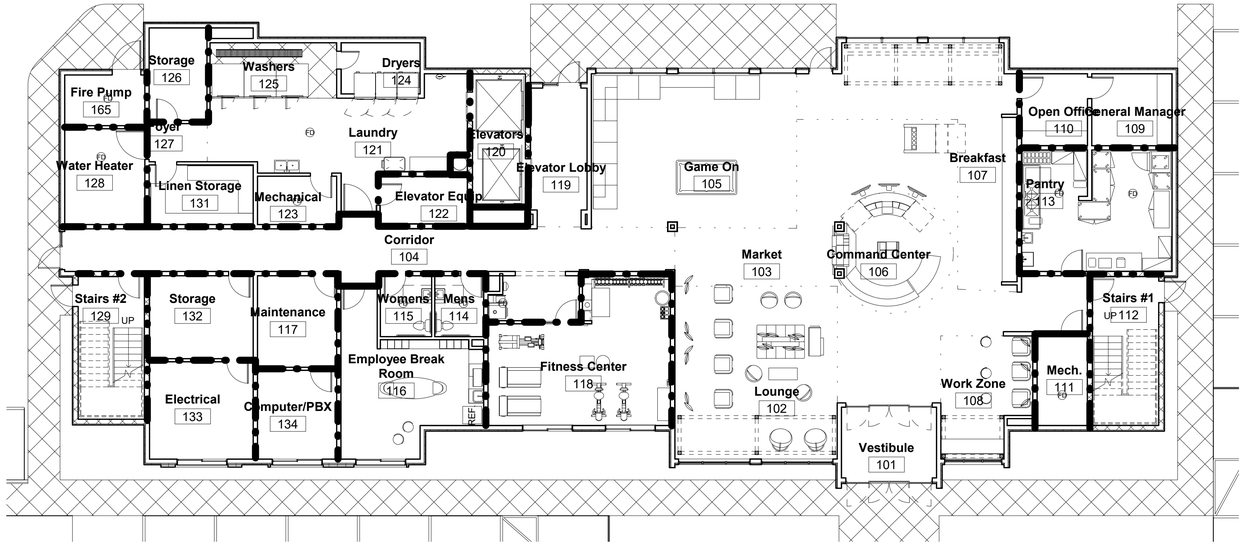
Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No. T000

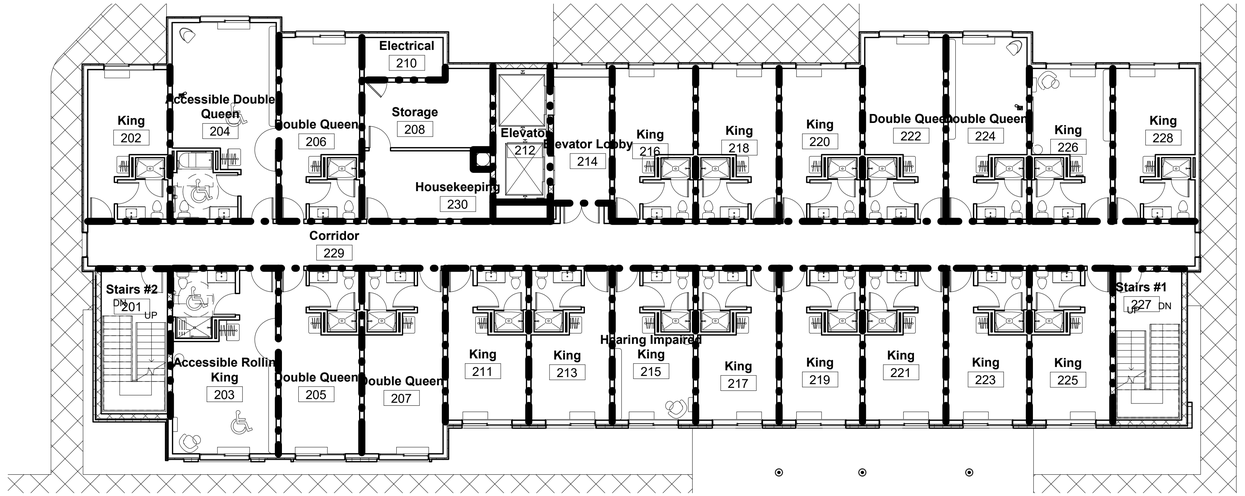
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Review

Tru Hotel

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1 Firewall Level 1
1" = 10'-0"



2 Firewall Level 2
1" = 10'-0"

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:
1. ALL FIRE-RATED WALLS TO EXTEND TO STRUCTURE ABOVE AS PER FIRECODE.
2. ALL OPENINGS NEED TO MEET REQUIREMENTS.
3. STAIRWELLS, ELEVATOR SHAFTS, MECHANICAL & WATER HEATER ROOMS, FLOOR TO FLOOR CHASE TO BE 2-HOUR RATED CONSTRUCTION.

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Firewall Plan 1st & 2nd Floor

Phase
Design Development

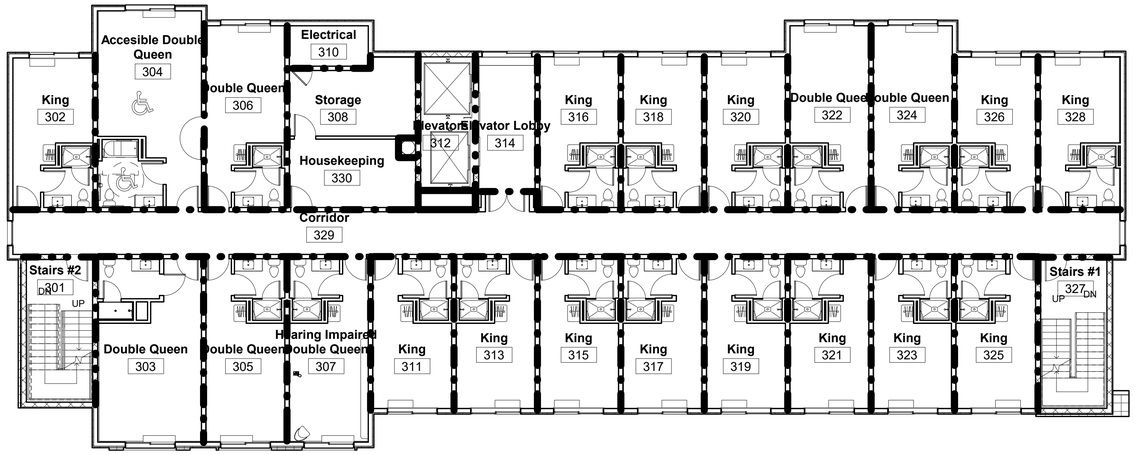
Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No.
T001

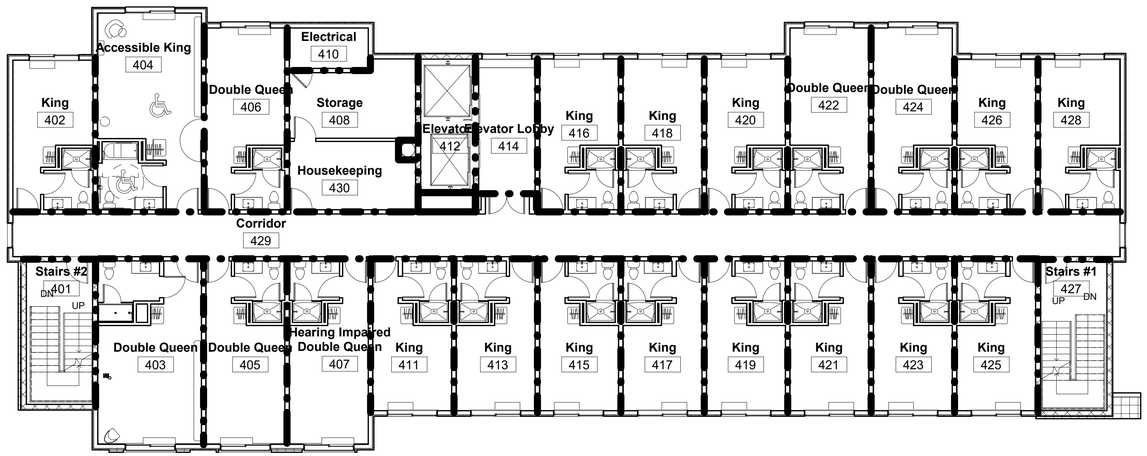
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Tru Hotel



1 Firewall Level 3
1" = 10'-0"



2 Firewall Level 4
1" = 10'-0"

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:
1. ALL FIRE-RATED WALLS TO EXTEND TO STRUCTURE ABOVE AS PER FIRECODE.
2. ALL OPENINGS NEED TO MEET REQUIREMENTS.
3. STAIRWELLS, ELEVATOR SHAFTS, MECHANICAL & WATER HEATER ROOMS, FLOOR TO FLOOR CHASE TO BE 2-HOUR RATED CONSTRUCTION.

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ASHISH MISHRA REG. No.6458 STATE OF LOUISIANA REGISTERED ARCHITECT

KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Firewall Plan 3rd & 4th Floor

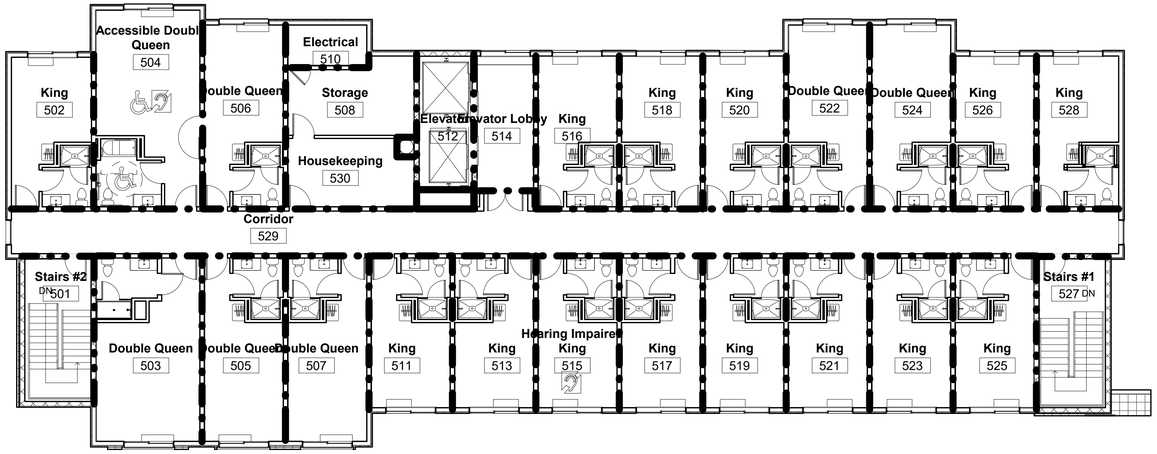
Phase
Design Development

Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No.
T002

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1 Firewall Level 5
1" = 10'-0"

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:
1. ALL FIRE-RATED WALLS TO EXTEND TO STRUCTURE ABOVE AS PER FIRECODE.
2. ALL OPENINGS NEED TO MEET REQUIREMENTS.
3. STAIRWELLS, ELEVATOR SHAFTS, MECHANICAL & WATER HEATER ROOMS, FLOOR TO FLOOR CHASE TO BE 2-HOUR RATED CONSTRUCTION.

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REG. No. 34138
STATE OF LOUISIANA
REGISTERED ARCHITECT

KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Firewall Plan 5th Floor

Phase
Design Development

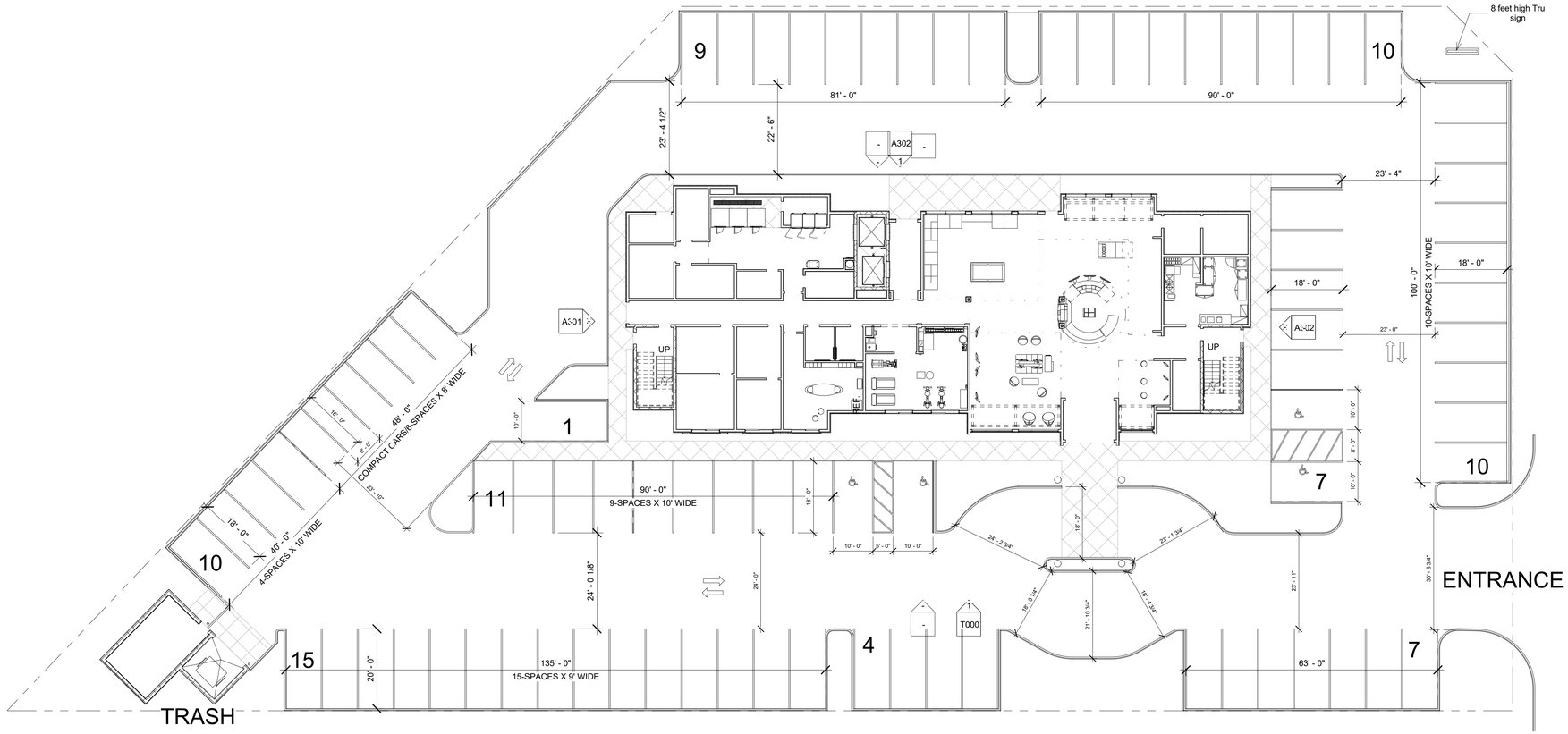
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Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No.
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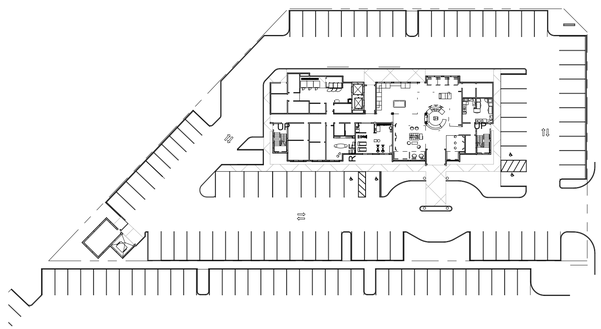
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Tru Hotel



1 Site
1/16" = 1'-0"



2 Site Key
1" = 50'-0"

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REVISIONS		
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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Site Plan

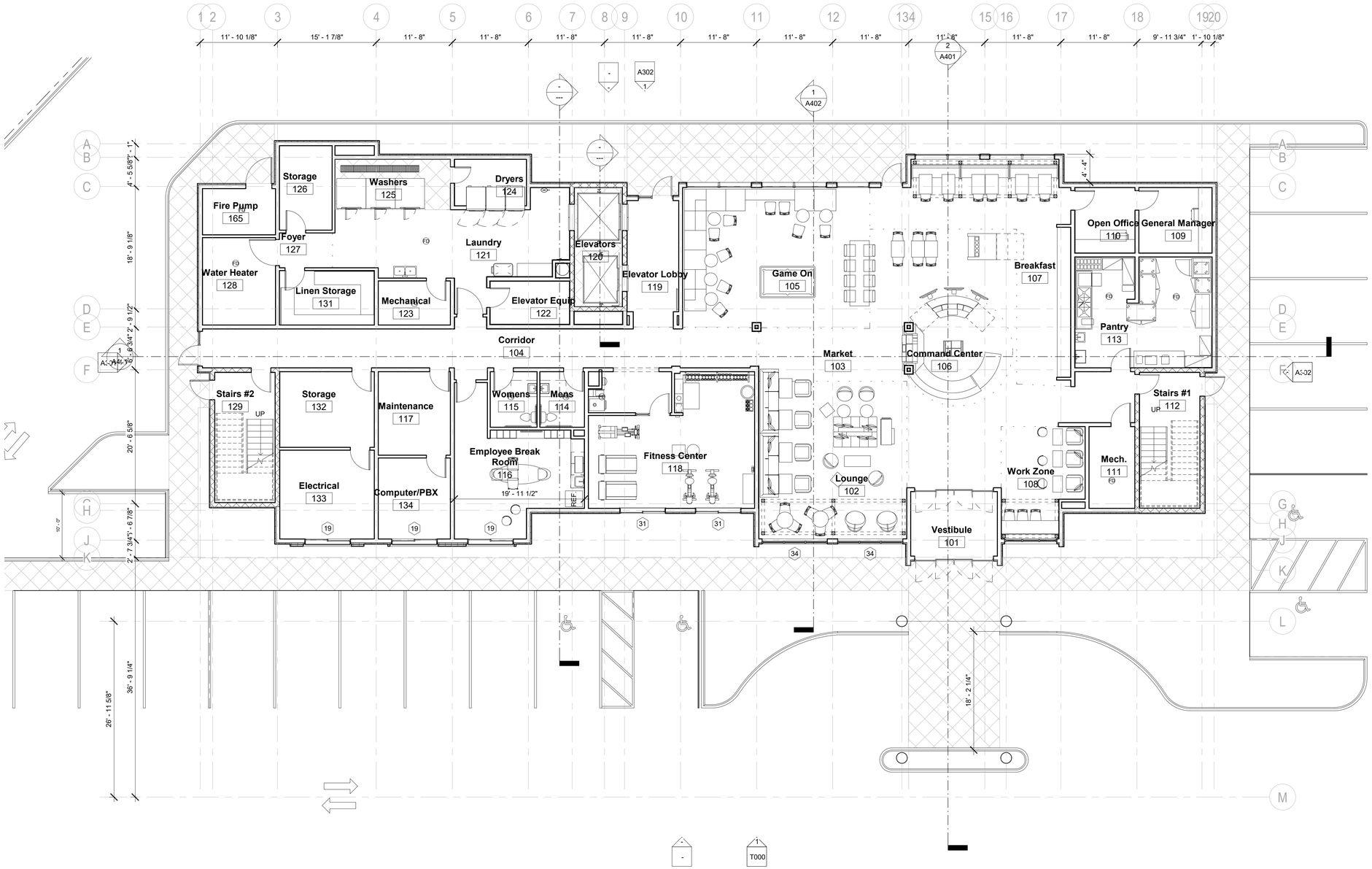
Phase
Design Development

Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No.
A001

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Tru Hotel



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

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
First Floor Plan

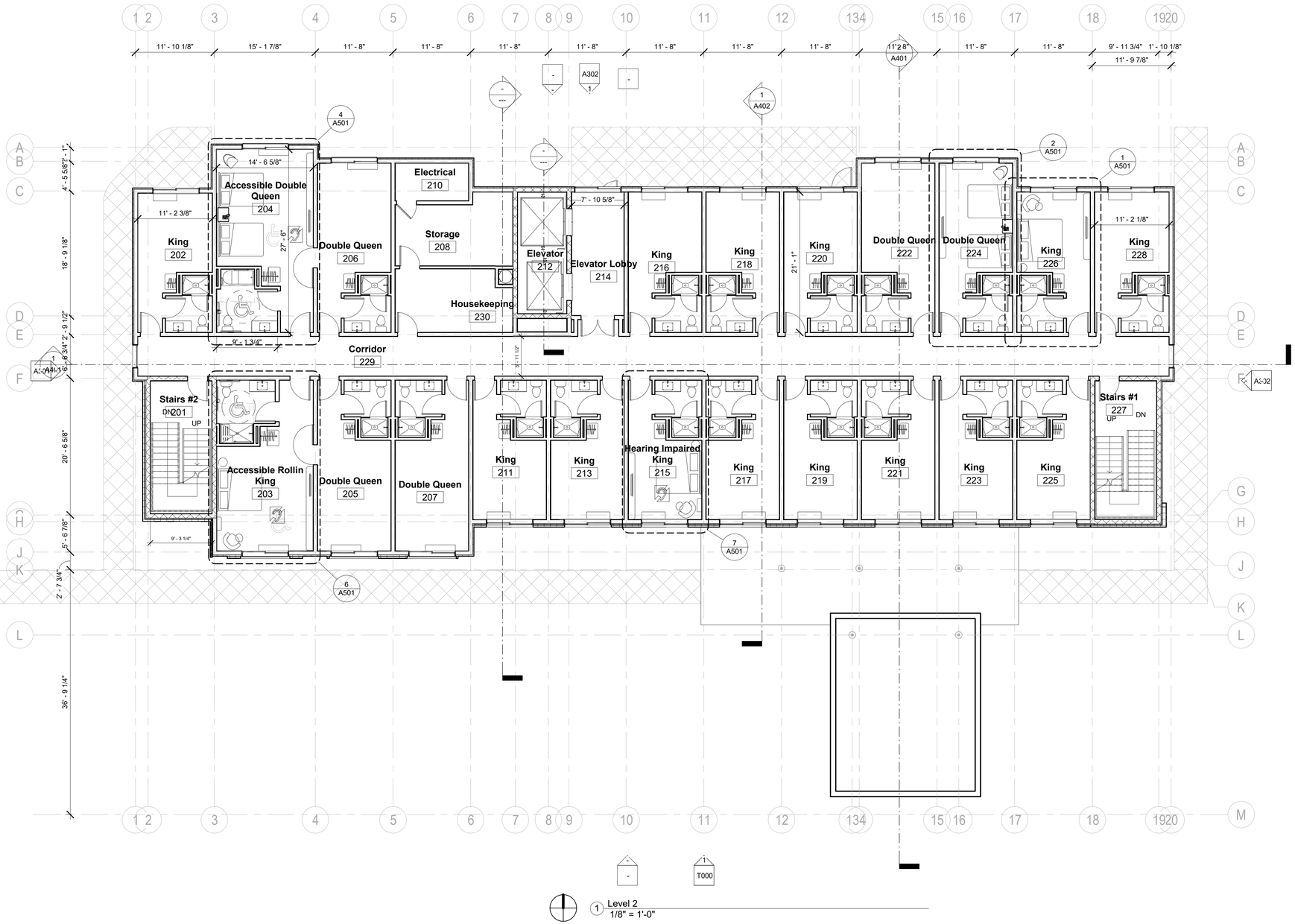
Phase
Design Development

Project No.	16-111
Prepared by	Author
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Date	Sept. 13, 2017

Sheet No.
A101

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Tru Hotel



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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Second Floor Plan

Phase
Design Development

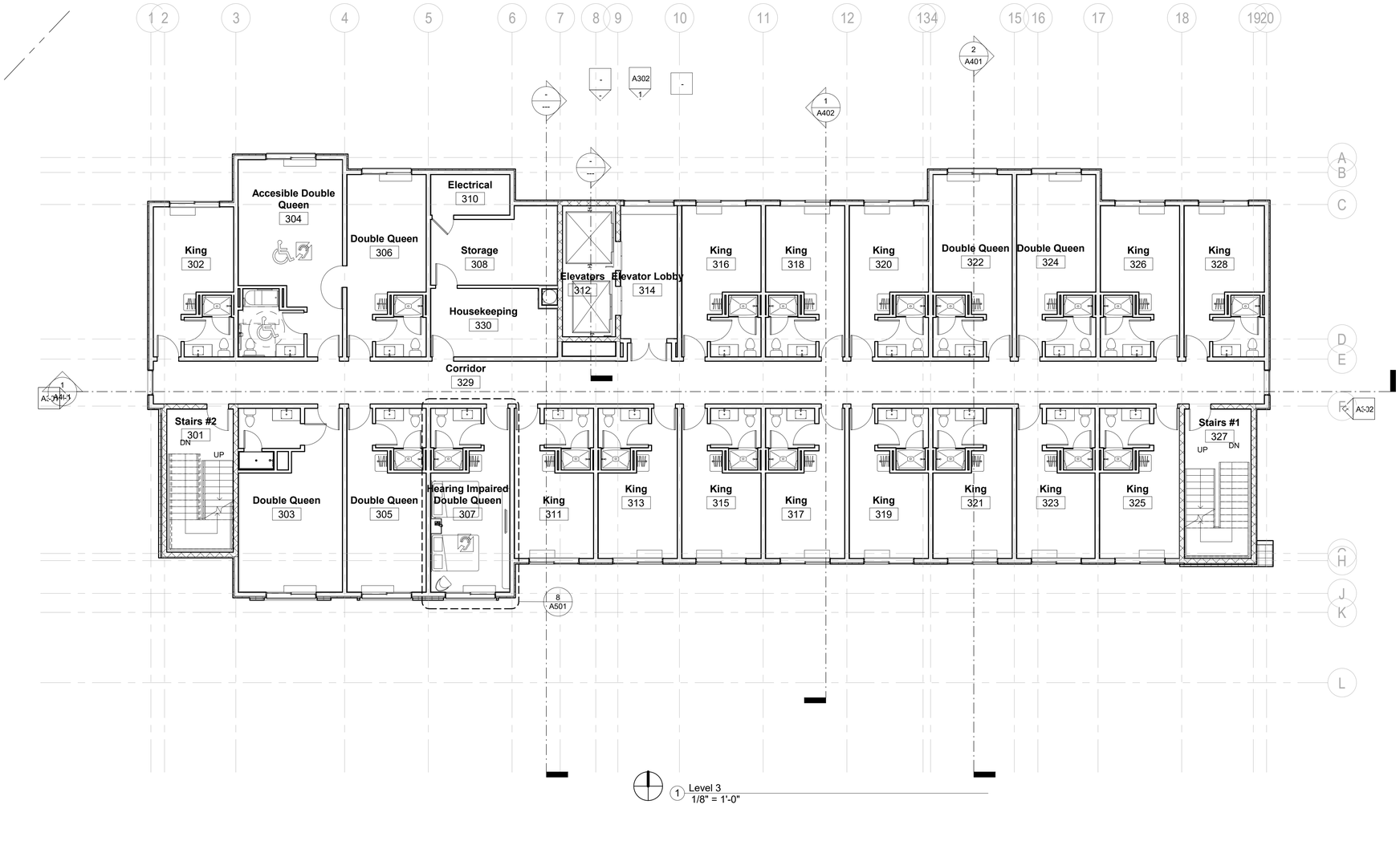
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Date	Sept. 13, 2017

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9/13/2017 8:07:52 AM



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

9/13/2017 8:07:56 AM

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Third Floor Plan

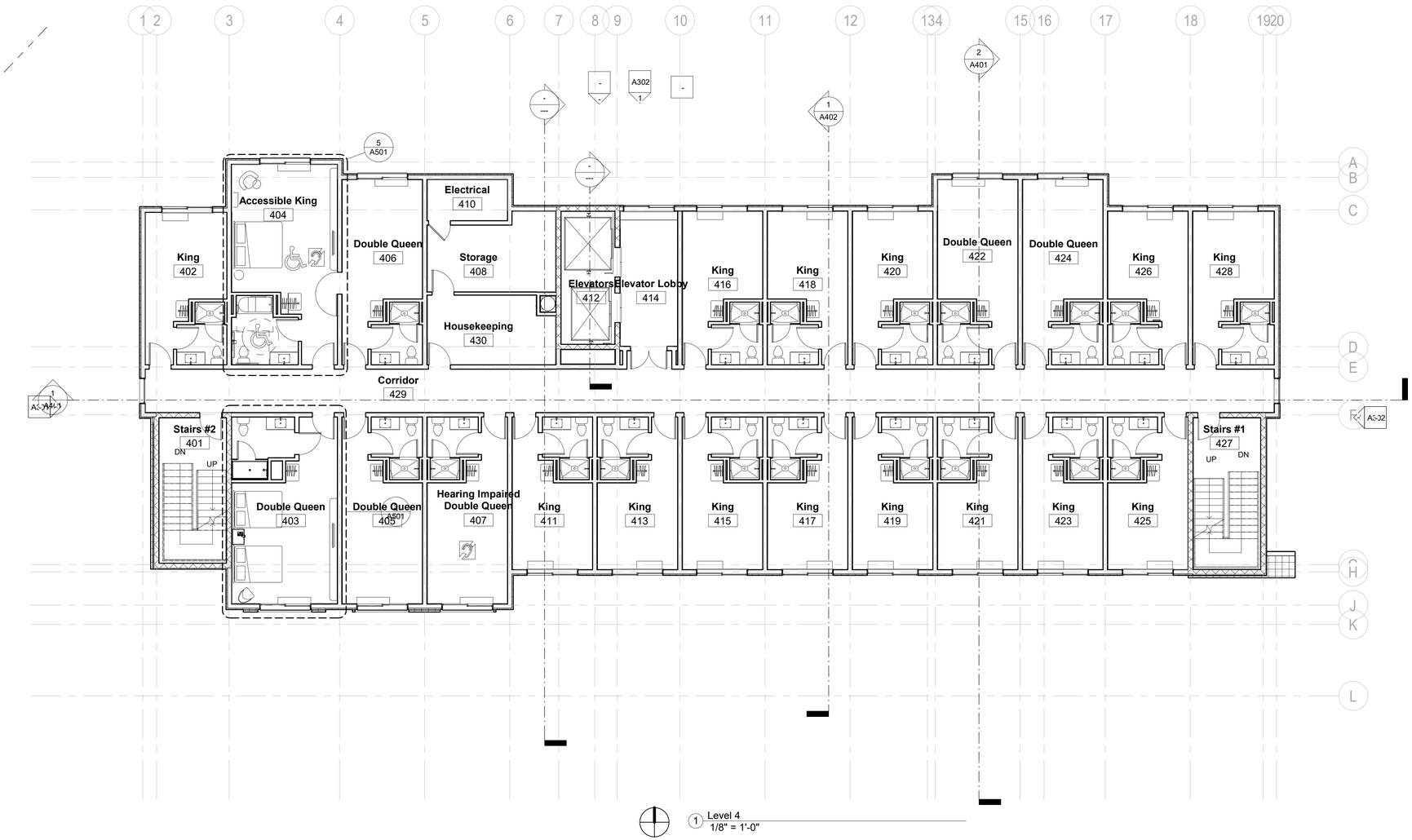
Phase
Design Development

Project No.	16-111
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Checked by	Checker
Date	Sept. 13, 2017

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Tru Hotel



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

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Fourth Floor Plan

Phase
Design Development

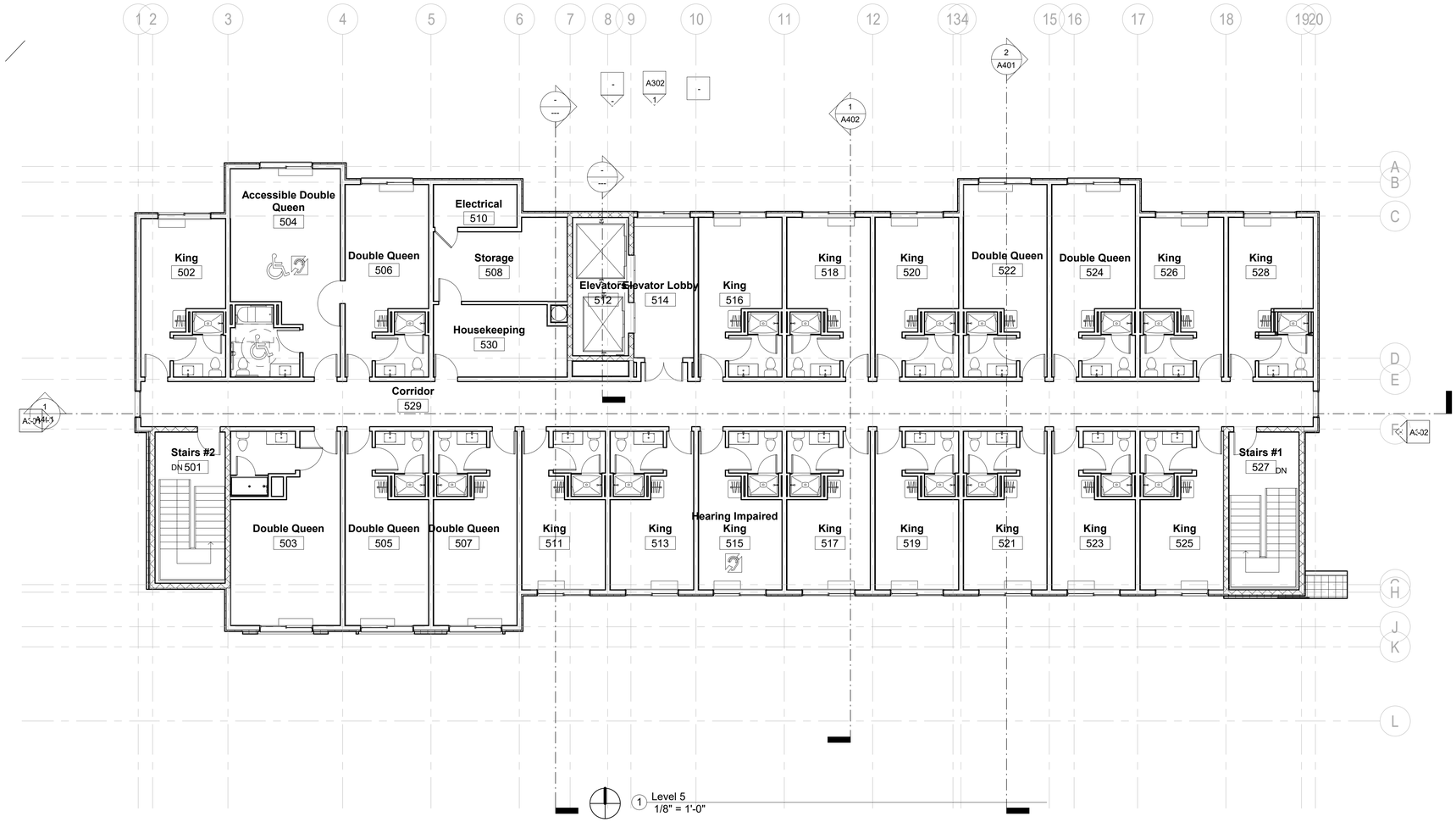
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Sheet No.
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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Fifth Floor Plan

Phase
Design Development

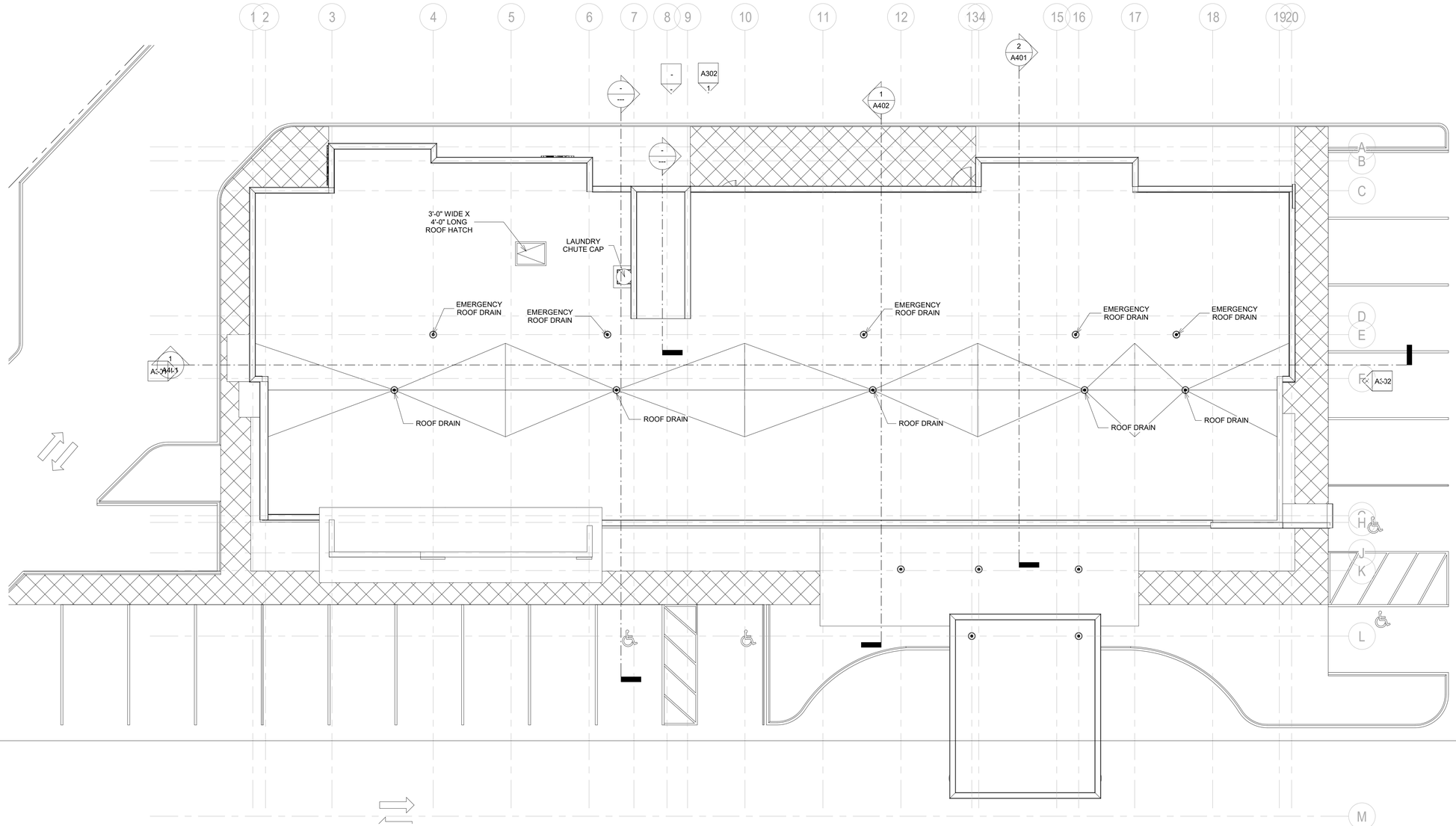
Project No.	16-111
Prepared by	Author
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Date	Sept. 13, 2017

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A105

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9/13/2017 8:08:04 AM

Tru Hotel



1 B.O. Roof Truss
1/8" = 1'-0"

9/13/2017 8:08:08 AM

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Roof Plan

Phase
Design Development

Project No. 16-111
Prepared by Author
Checked by Checker
Date Sept. 13, 2017

Sheet No.
A106

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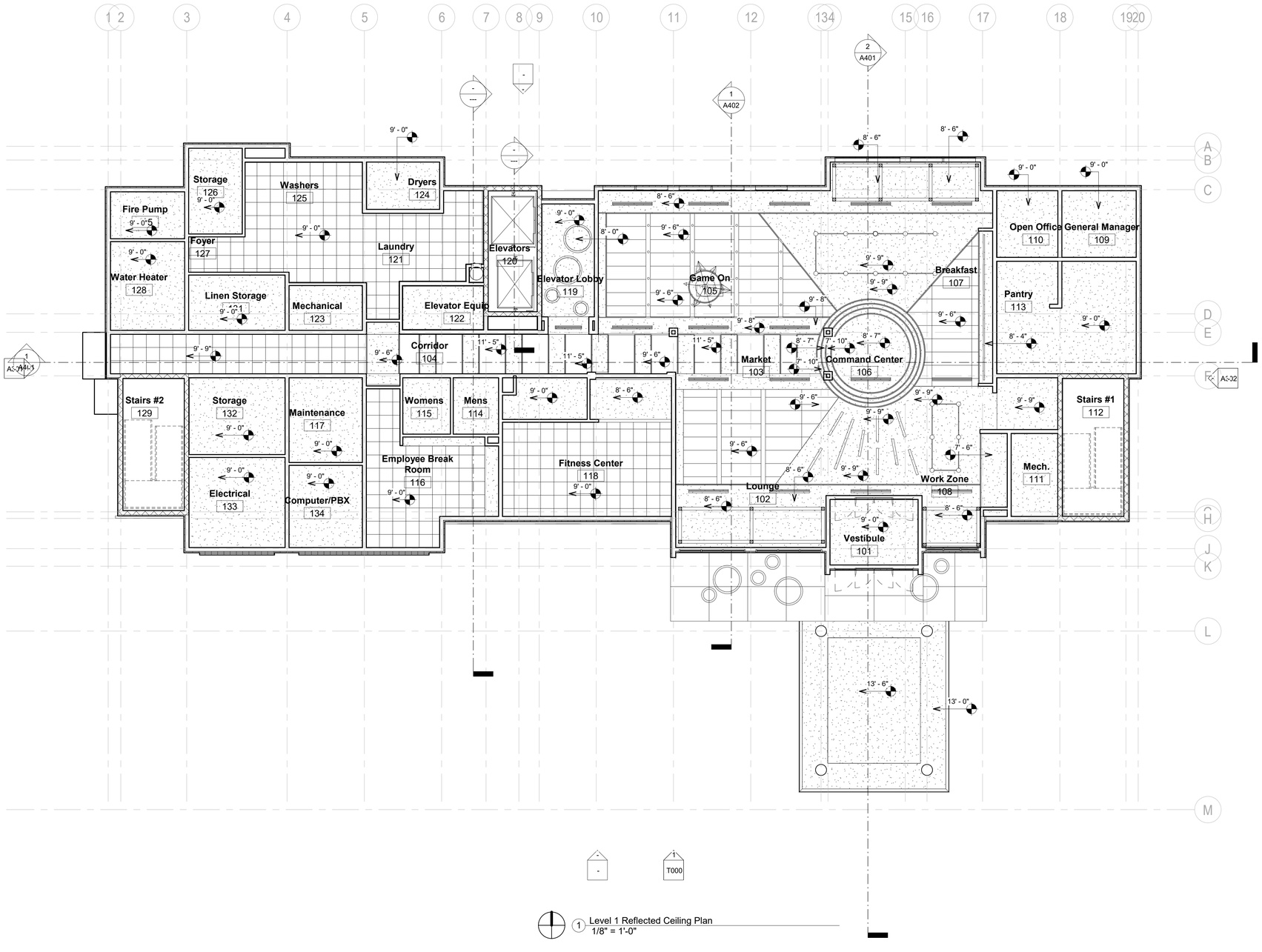
Tru Hotel

RCP LEGEND	
	GYPSUM BOARD
	2' x 2' ACT CEILING

1. ALL WET AREAS INCLUDING GUEST BATHROOMS TO HAVE MOISTURE RESISTANT GYPSUM BOARD CEILING.

2. ALL PUBLIC AREAS ACOUSTICAL CEILING TILE TO BE TEGULAR WITH REVEAL.

3. ALL AREAS WITH ACOUSTICAL CEILING TILE NEED TO MAINTAIN ONE HOUR FLOOR CEILING FIRE RATING BY INSTALLING TYPE "X" 5/8" GYPSUM BOARD OVER FLOOR/ROOF JOISTS.



1 Level 1 Reflected Ceiling Plan
1/8" = 1'-0"

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
First Floor Reflected Ceiling Plan

Phase
Design Development

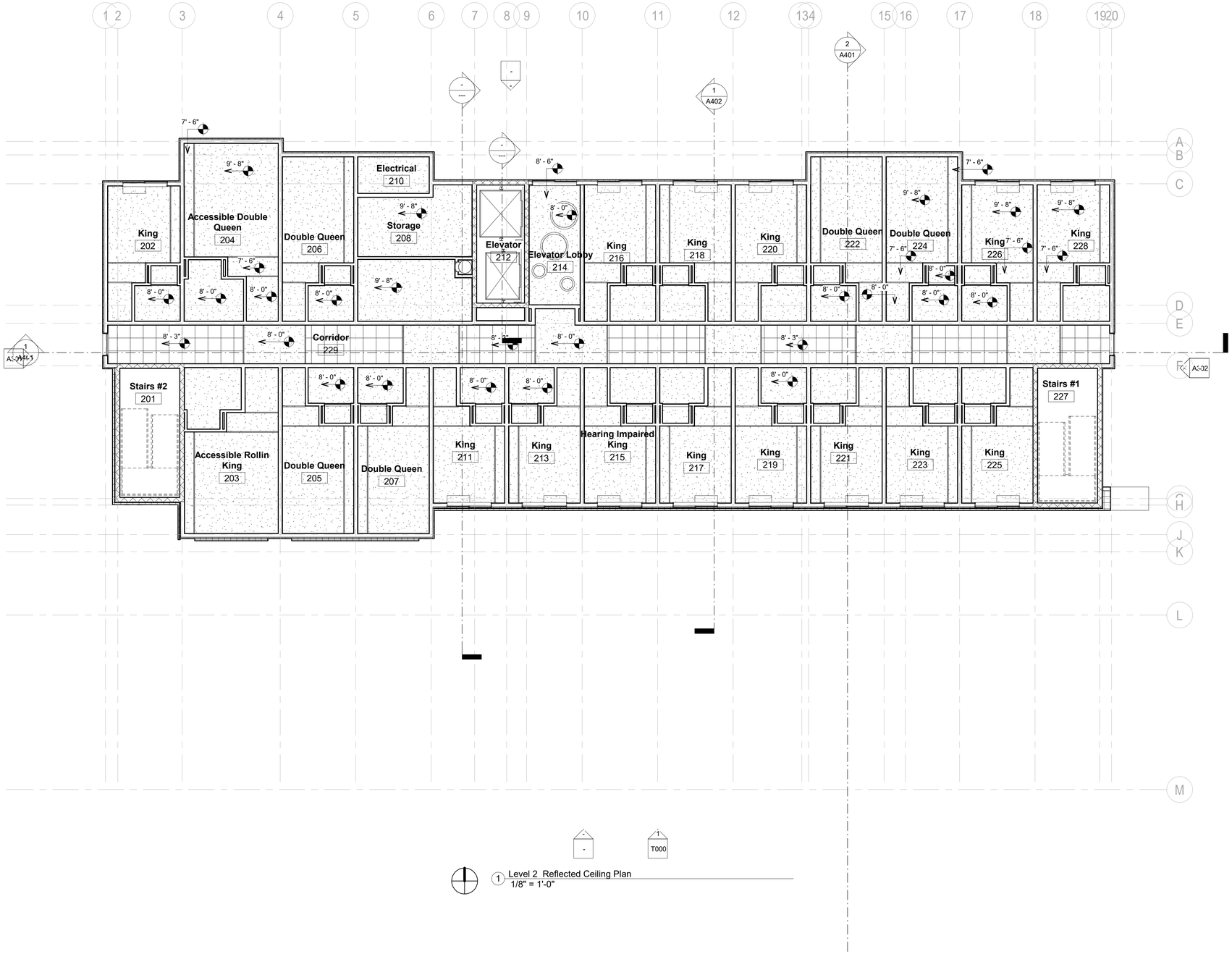
Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No. A201

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Review

9/13/2017 8:08:12 AM

Tru Hotel



1 Level 2 Reflected Ceiling Plan
1/8" = 1'-0"

RCP LEGEND	
	GYPSUM BOARD
	2' x 2' ACT CEILING

1. ALL WET AREAS INCLUDING GUEST BATHROOMS TO HAVE MOISTURE RESISTANT GYPSUM BOARD CEILING.

2. ALL PUBLIC AREAS ACOUSTICAL CEILING TILE TO BE TEGULAR WITH REVEAL.

3. ALL AREAS WITH ACOUSTICAL CEILING TILE NEED TO MAINTAIN ONE HOUR FLOOR CEILING FIRE RATING BY INSTALLING TYPE "X" 5/8" GYPSUM BOARD OVER FLOOR/ROOF JOISTS.

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Second Floor Reflected Ceiling Plan

Phase
Design Development

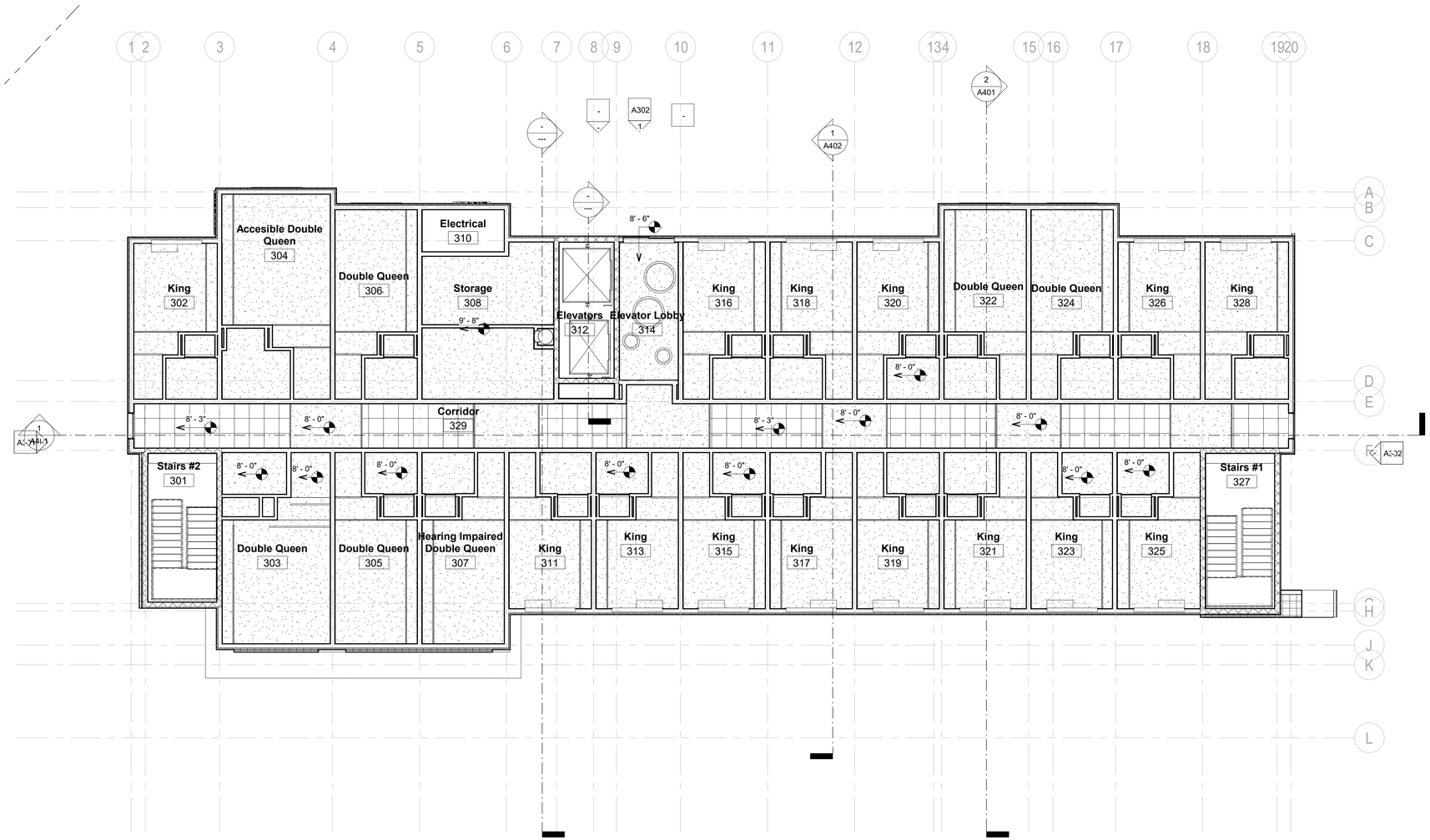
Project No.	16-111
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Date	Sept. 13, 2017

Sheet No. A202

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9/13/2017 8:08:16 AM

Tru Hotel



1 Level 3 Reflected Ceiling Plan
1/8" = 1'-0"

RCP LEGEND

GYPSUM BOARD

2' x 2' ACT CEILING

1. ALL WET AREAS INCLUDING GUEST BATHROOMS TO HAVE MOISTURE RESISTANT GYPSUM BOARD CEILING.

2. ALL PUBLIC AREAS ACOUSTICAL CEILING TILE TO BE TEGULAR WITH REVEAL.

3. ALL AREAS WITH ACOUSTICAL CEILING TILE NEED TO MAINTAIN ONE HOUR FLOOR CEILING FIRE RATING BY INSTALLING TYPE "X" 5/8" GYPSUM BOARD OVER FLOOR/ROOF JOISTS.

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Third Floor Reflected Ceiling Plan

Phase
Design Development

Project No.	16-111
Prepared by	Author
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Date	Sept. 13, 2017

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A203

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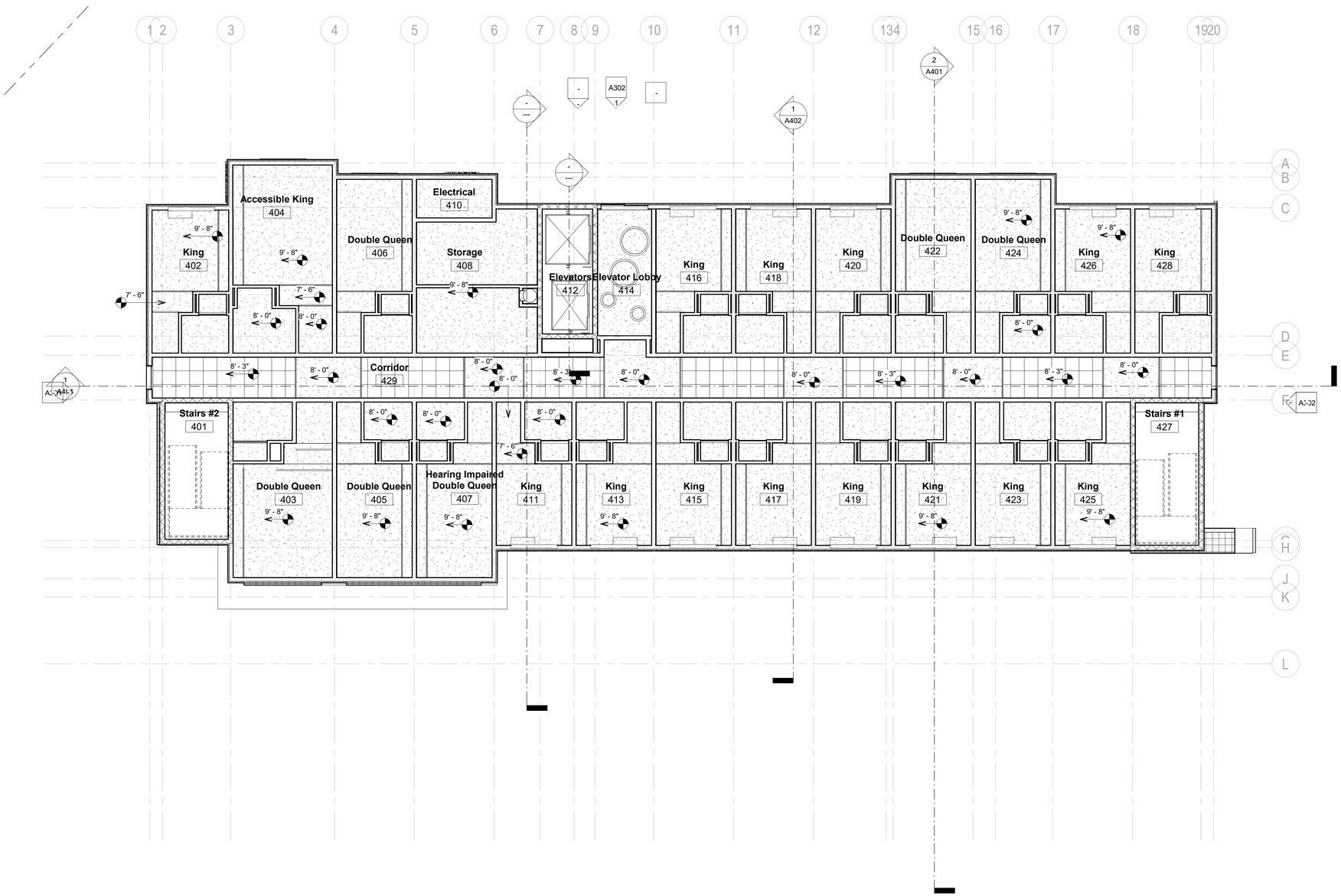
RCP LEGEND

- GYPSUM BOARD
- 2' x 2' ACT CEILING

1. ALL WET AREAS INCLUDING GUEST BATHROOMS TO HAVE MOISTURE RESISTANT GYPSUM BOARD CEILING.

2. ALL PUBLIC AREAS ACOUSTICAL CEILING TILE TO BE TEGULAR WITH REVEAL.

3. ALL AREAS WITH ACOUSTICAL CEILING TILE NEED TO MAINTAIN ONE HOUR FLOOR CEILING FIRE RATING BY INSTALLING TYPE "X" 5/8" GYPSUM BOARD OVER FLOOR/ROOF JOISTS.



1 Level 4 Reflected Ceiling Plan
1/8" = 1'-0"

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1	12/3/13	Hilton review

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Fourth Floor Reflected Ceiling Plan

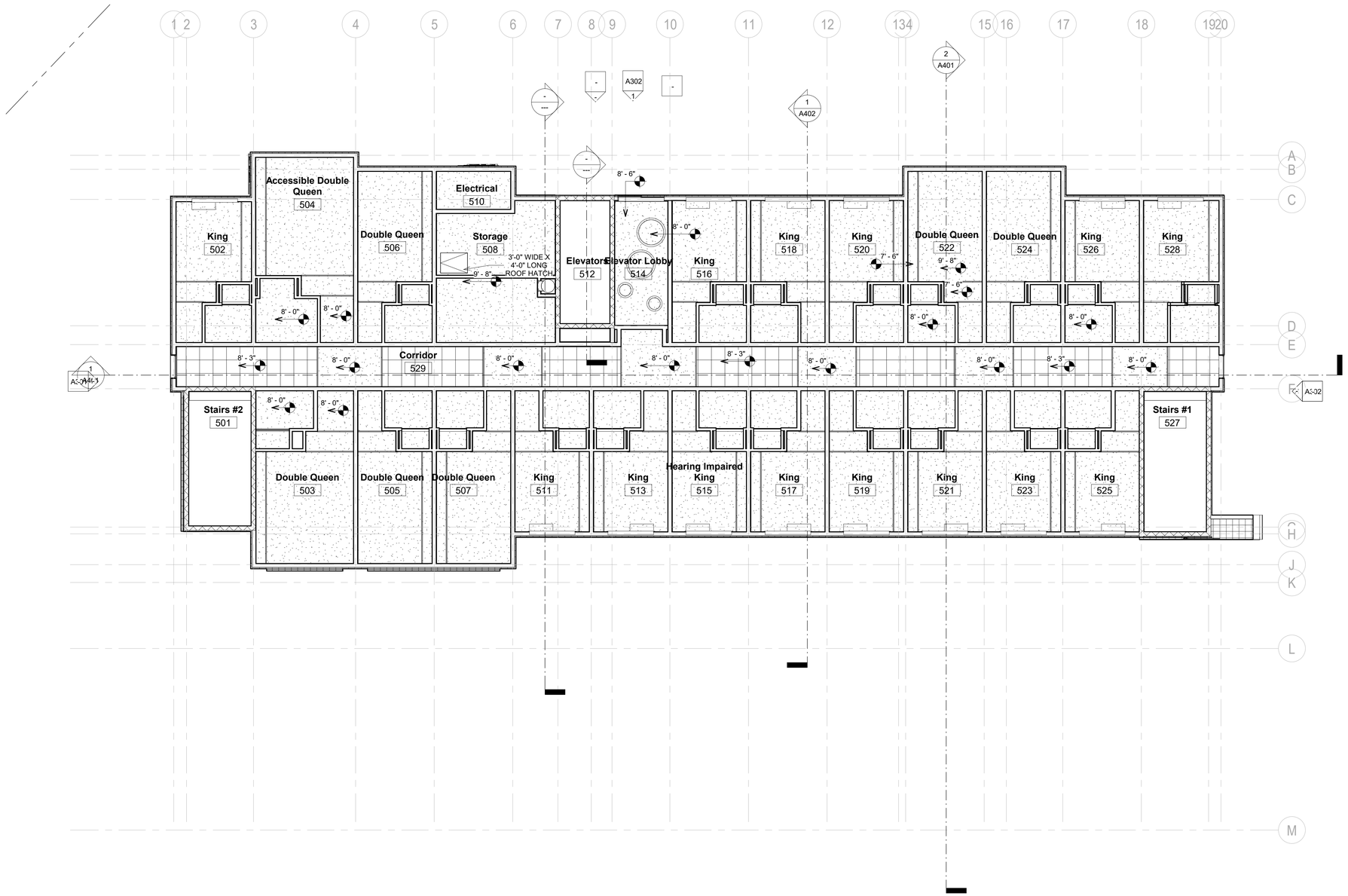
Phase
Design Development

Project No.	16-111
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Date	Sept. 13, 2017

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Review

Tru Hotel



1 Level 5 Reflected Ceiling Plan
1/8" = 1'-0"

RCP LEGEND

GYPSUM BOARD

2' x 2' ACT CEILING

1. ALL WET AREAS INCLUDING GUEST BATHROOMS TO HAVE MOISTURE RESISTANT GYPSUM BOARD CEILING.

2. ALL PUBLIC AREAS ACOUSTICAL CEILING TILE TO BE TEGULAR WITH REVEAL.

3. ALL AREAS WITH ACOUSTICAL CEILING TILE NEED TO MAINTAIN ONE HOUR FLOOR CEILING FIRE RATING BY INSTALLING TYPE "X" 5/8" GYPSUM BOARD OVER FLOOR/ROOF JOISTS.

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Fifth Floor Reflected Ceiling Plan

Phase
Design Development

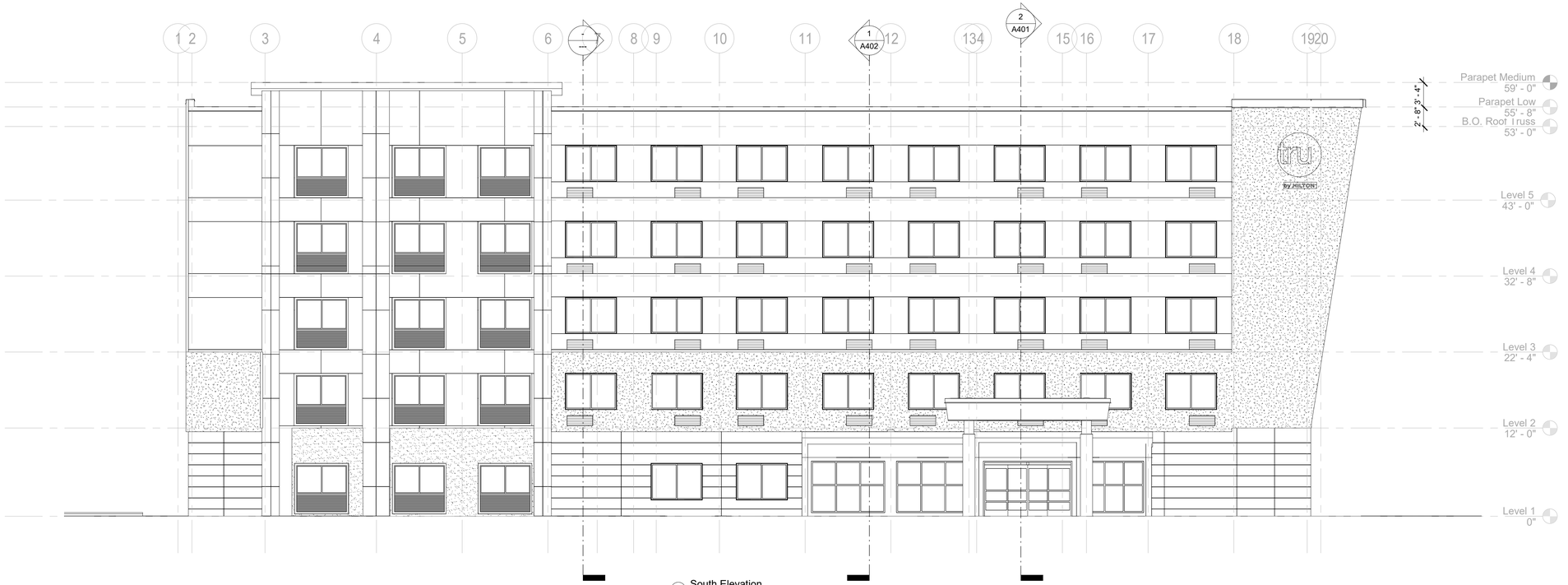
Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No.
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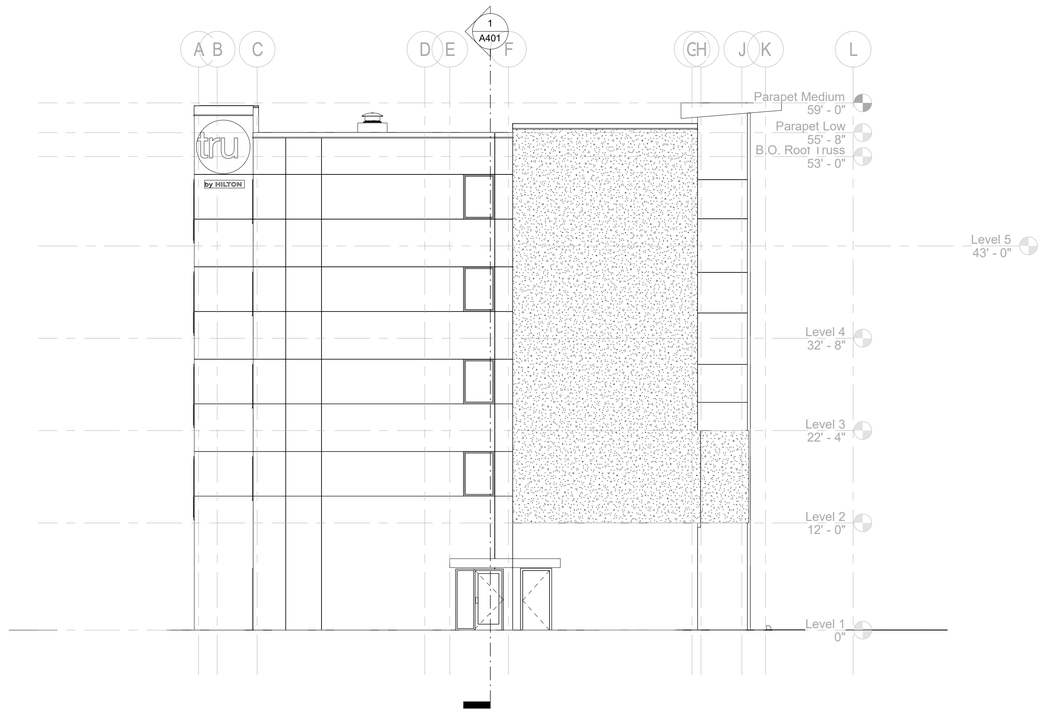
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Tru Hotel



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



2 West Elevation
1/8" = 1'-0"

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Exterior Elevations

Phase
Design Development

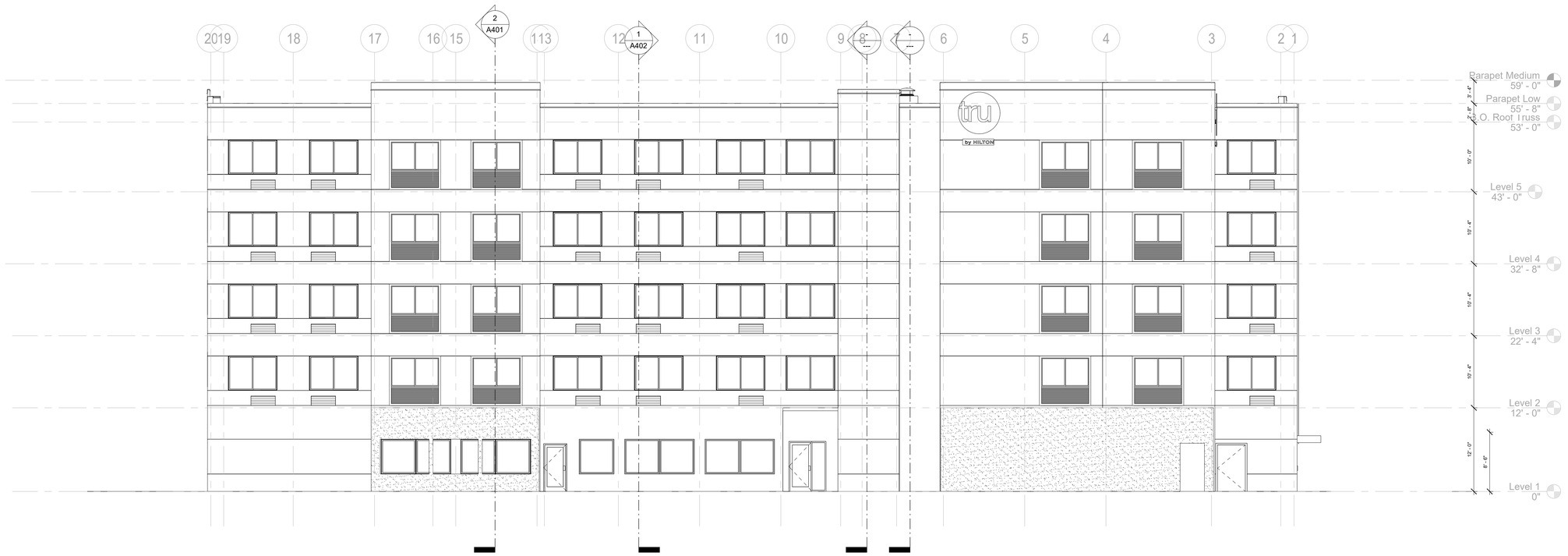
Project No. 16-111
Prepared by Author
Checked by Checker
Date Sept. 13, 2017

Sheet No.
A301

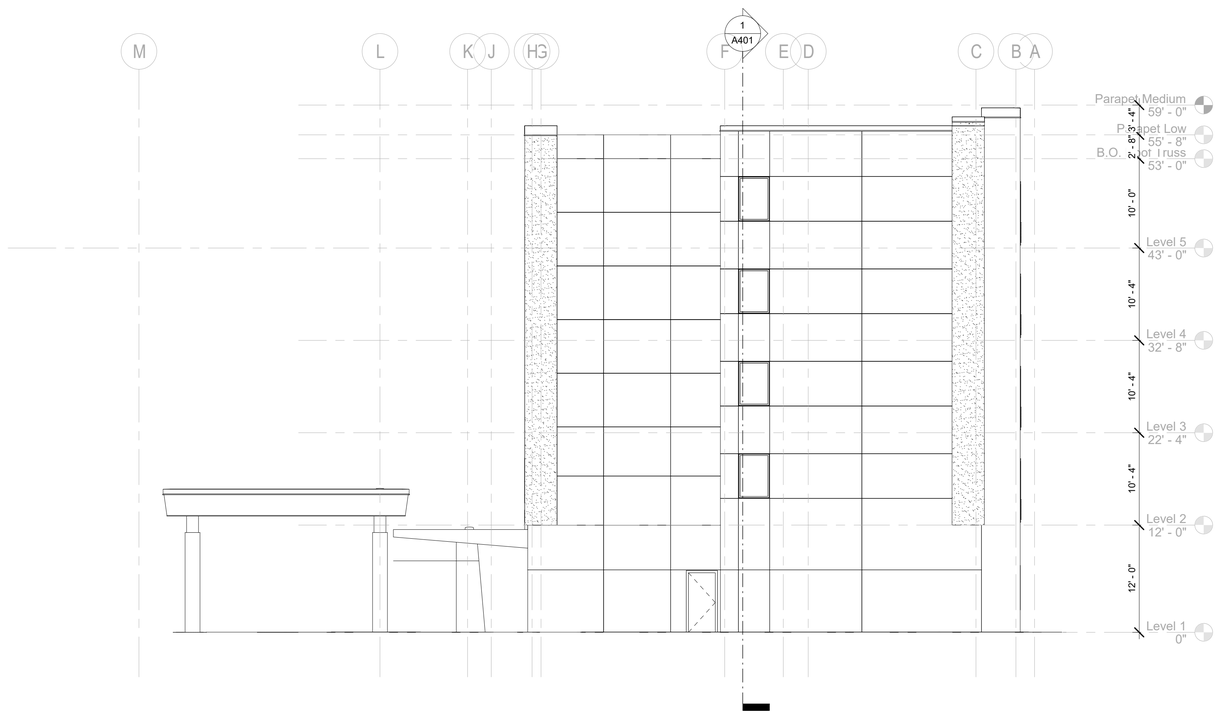
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Review

9/13/2017 8:08:35 AM

Tru Hotel



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



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

9/13/2017 8:08:41 AM

MISHRA
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REVISIONS		
No.	Date	Description
1	12/3/13	Hilton review

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Exterior Elevations

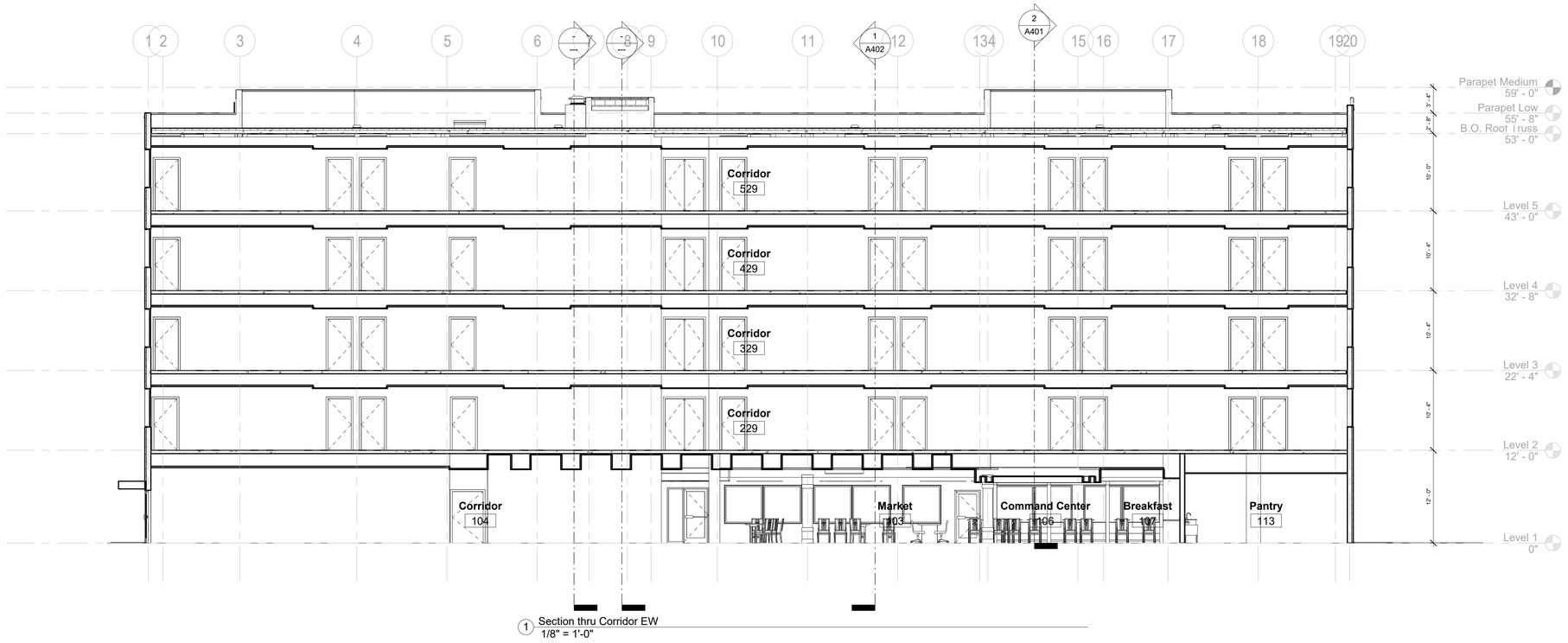
Phase
Design Development

Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

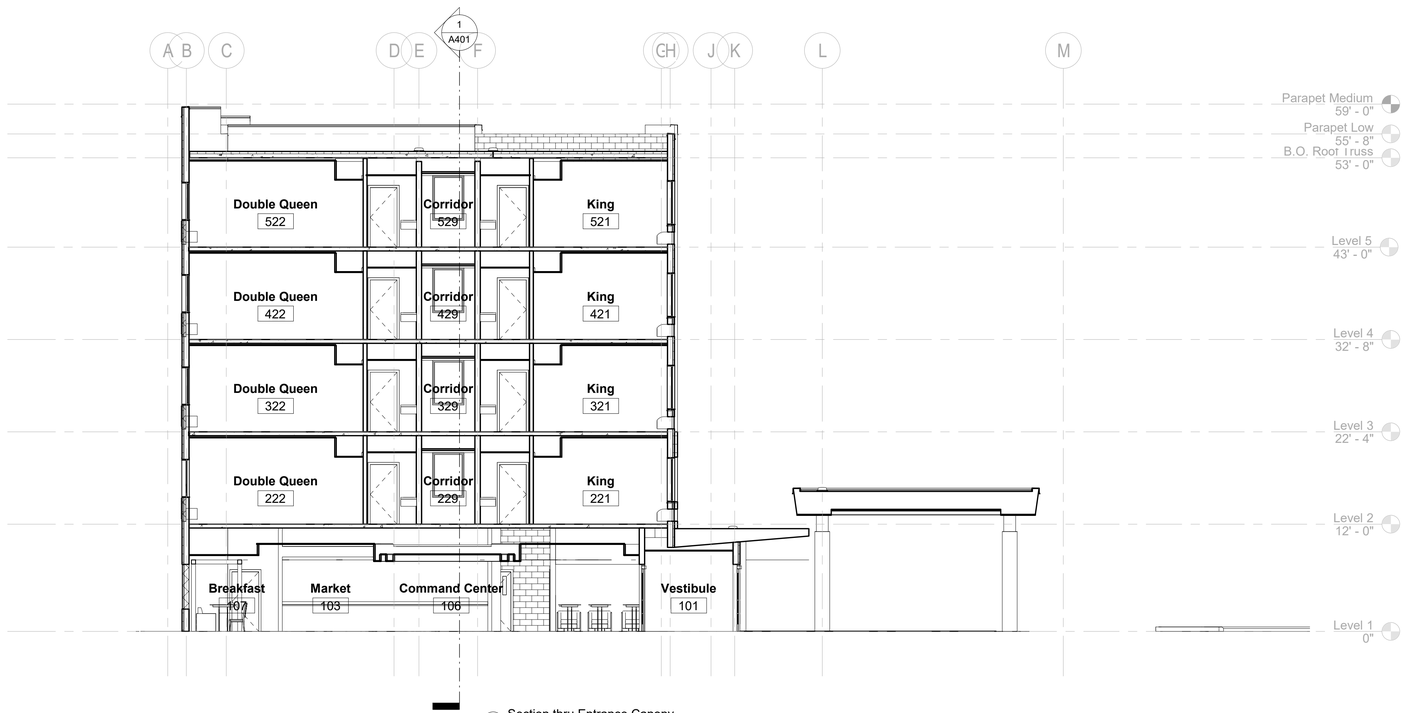
Sheet No.
A302

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Review

Tru Hotel



1 Section thru Corridor EW
1/8" = 1'-0"



2 Section thru Entrance Canopy
1/8" = 1'-0"

TYPICAL PARAPTET CONSTRUCTION:

-PREFINISHED METAL COPING ON TREATED BLOCKING.
-ROOF MEMBRANE ALONG INSIDE FACE, UP AND OVER TOP OF PARAPET WALL
-PLYWOOD (FIRE TREATED) NAILER PANEL AT INSIDE FACE OF WALL-SEE DETAIL

TYPICAL ROOF CONSTRUCTION:

- 60 MIL FULLY ADHERED TPO (THERMOPLASTIC OLEFIN) WHITE ROOFING MEMBRANE
- 3" MINIMUM TAPERED RIGID INSULATION ON ROOF DECK
- ROOF STRUCTURE AS PER STRUCTURAL DRAWINGS
- 5/8" GYP. BD. ON 2 1/2" FURRING CHANNELS @ 24" O.C. ON CEILING SIDE-SEE STRUCTURAL DRAWINGS FOR DETAILS

TYPICAL FLOOR CONSTRUCTION

-CONCRETE SLAB OVER STEEL DECK AS PER STRUCTURAL DRAWINGS
-5/8" FINISH GYP. BD. ON 2 1/2" RUNNER METAL CHANNELS @ 24" O.C. ON CEILING OR ACOUSTICAL CEILING TILES AS PER FINISH SCHEDULE

UL 2 HOUR FIRE-RATED FLOOR ASSEMBLY:
D-502: 5/8" FIRE-RATED GYP. BD. FINISH CEILING
D209/D216: 2' X 2' ACOUSTICAL CEILING TILE CEILING

9/13/2017 8:08:46 AM

MISHRA
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REVISIONS		
No.	Date	Description

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Sections

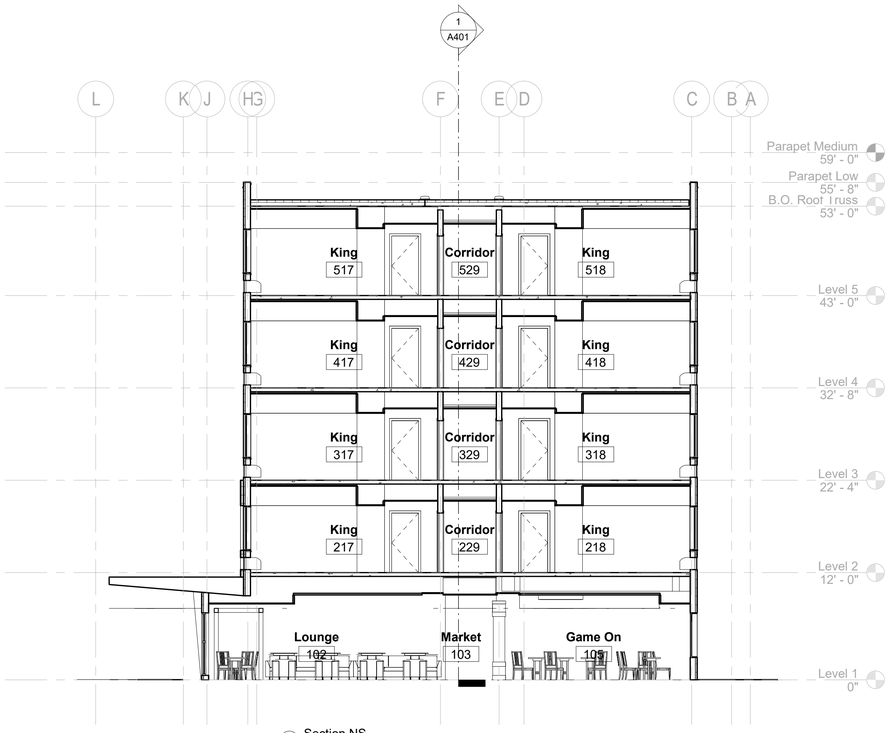
Phase
Design Development

Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No.
A401

Released for
Review

Tru Hotel



1 Section NS
1/8" = 1'-0"

TYPICAL PARAPTET CONSTRUCTION:

-PREFINISHED METAL COPING ON TREATED BLOCKING.
-ROOF MEMBRANE ALONG INSIDE FACE, UP AND OVER TOP OF PARAPET WALL
-PLYWOOD (FIRE TREATED) NAILER PANEL AT INSIDE FACE OF WALL-SEE DETAIL

TYPICAL ROOF CONSTRUCTION:

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- 3" MINIMUM TAPERED RIGID INSULATION ON ROOF DECK
- ROOF STRUCTURE AS PER STRUCTURAL DRAWINGS
- 5/8" GYP. BD. ON 2 1/2" FURRING CHANNELS @ 24" O.C. ON CEILING SIDE-SEE STRUCTURAL DRAWINGS FOR DETAILS

TYPICAL FLOOR CONSTRUCTION

-CONCRETE SLAB OVER STEEL DECK AS PER STRUCTURAL DRAWINGS
-5/8" FINISH GYP. BD. ON 2 1/2" RUNNER METAL CHANNELS @ 24" O.C. ON CEILING OR ACOUSTICAL CEILING TILES AS PER FINISH SCHEDULE

UL 2 HOUR FIRE-RATED FLOOR ASSEMBLY:
D-502: 5/8" FIRE-RATED GYP. BD. FINISH CEILING
D209/D216: 2' X 2' ACOUSTICAL CEILING TILE CEILING

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Sections

Phase
Design Development

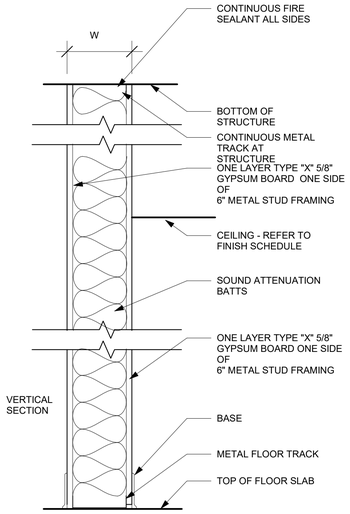
Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No.
A402

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Review

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Tru Hotel



PARTITION TYPE

A

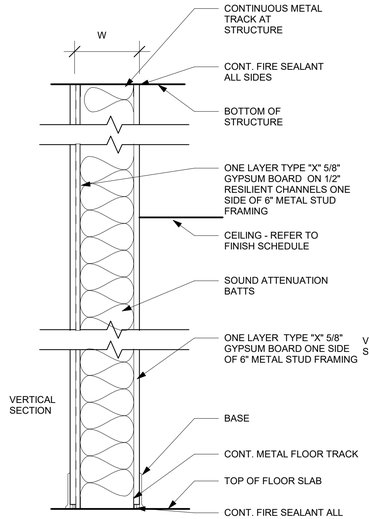
STC 50 UL: U419

PARTITION TYPE A TO USE 5/8" MR GWB ON WET WALLS AT ALL SHOWER RESTROOMS AND PTAC WALLS

DESCRIPTION

1 HOUR RATED PARTITION

W = AS PER 6" STUD SIZE



PARTITION TYPE

B

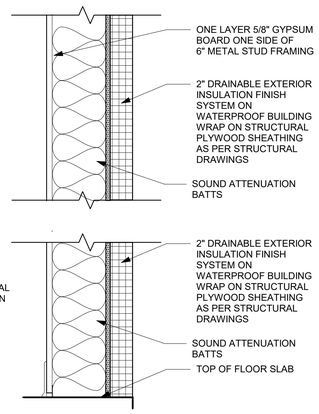
STC 50- 54 UL: U423

PARTITION TYPE A TO USE 5/8" MR GWB ON WET WALLS AT ALL SHOWER RESTROOMS

DESCRIPTION

1 HOUR RATED PARTITION

W = AS PER 6" STUD SIZE

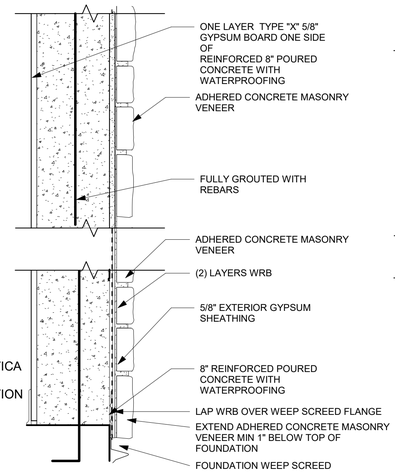


EXTERIOR EIFS WALL ON METAL STUDS

C

DESCRIPTION

EXTERIOR MASONRY WALL WITH EIFS. HEIGHT OF MASONRY VARIES. SEE ELEVATIONS.

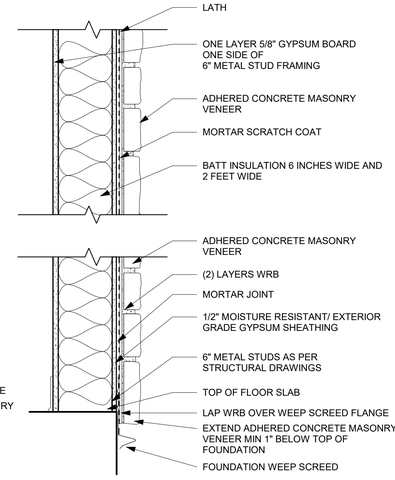


EXTERIOR MASONRY WALL

D

DESCRIPTION

EXTERIOR STONE VENEER ON CONCRETE POURED WALL WITH REINFORCEMENTS

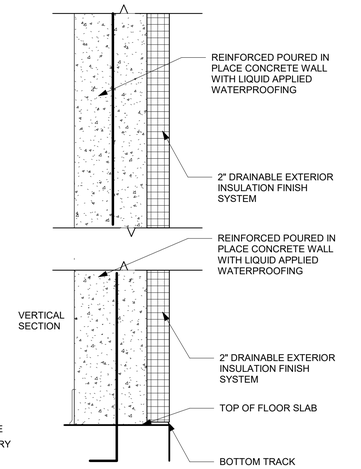


EXTERIOR MASONRY WALL

M

DESCRIPTION

EXTERIOR MASONRY WALL.



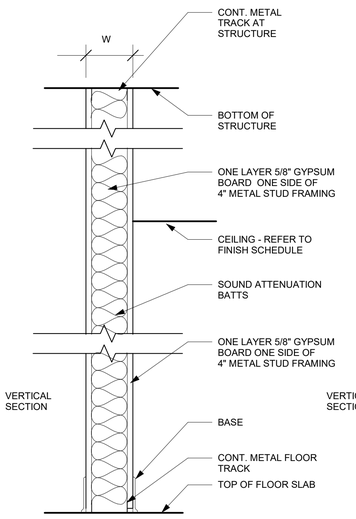
EXTERIOR CONC. WALL

L

DESCRIPTION

EXTERIOR CONCRETE WALL WITH EIFS. SEE ELEVATIONS.

MR GWB = MOISTURE RESISTAN GYPSUM WALL BOARD



PARTITION TYPE

F

STC 45-49 UL 419

F 1

F 2

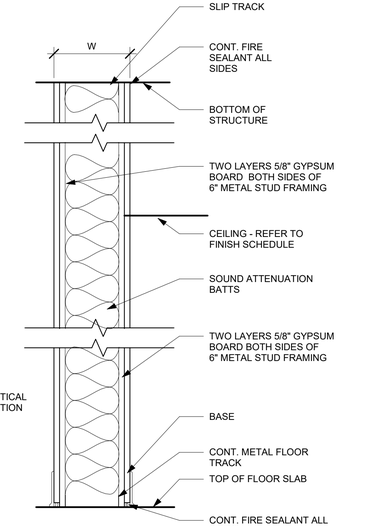
DESCRIPTION

1 HOUR RATED PARTITION

W = AS PER 4" STUD SIZE

NON RATED PARTITION

NON RATED 2 1/2" METAL STUD PARTITION



PARTITION TYPE

G

STC 50 UL: U411

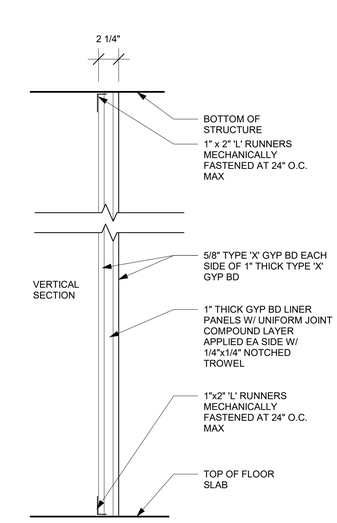
G 1

DESCRIPTION

2 HOUR RATED PARTITION

W = AS PER 6" STUD SIZE

2 HOUR RATED PARTITION WITH 4" METAL STUDS



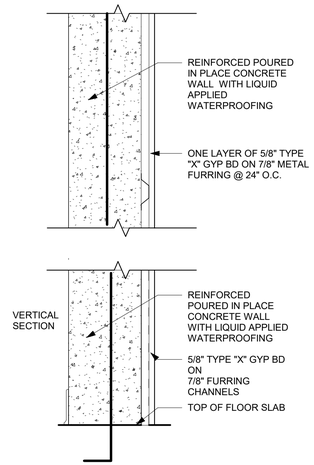
PARTITION TYPE

J

DESCRIPTION

2 HOUR RATED SHAFT WALL

U.L. DESIGN U529



INTERIOR CONCRETE WALL

E

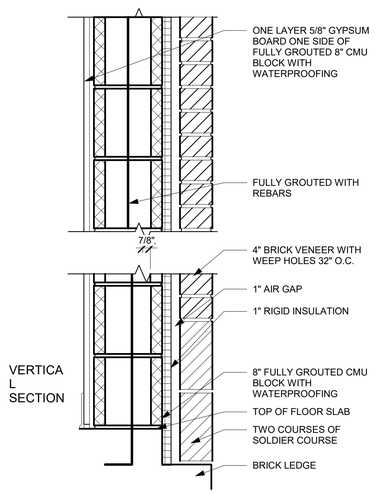
DESCRIPTION

4 HOUR RATED INTERIOR CONCRETE WALL

U.L. DESIGN U926

E1 NO FURRING CHANNEL OR GYPSUM BOARD

E2 FURRING CHANNEL AND GYPSUM BOARD ON BOTH SIDES OF CONCRETE WALL

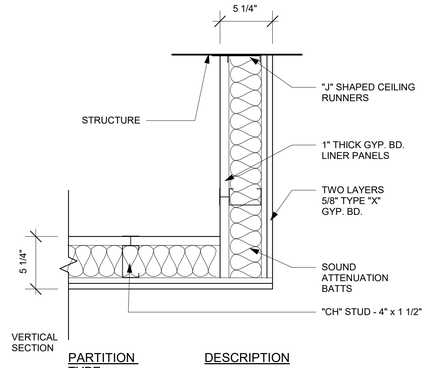


EXTERIOR MASONRY WALL

N

DESCRIPTION

EXTERIOR MASONRY ON CMU WALL WITH EIFS. HEIGHT OF MASONRY VARIES. SEE ELEVATIONS.



PARTITION TYPE

K

DESCRIPTION

1 HOUR RATED HORIZ DUCT PROTECTION

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Wall Types

Phase
Design Development

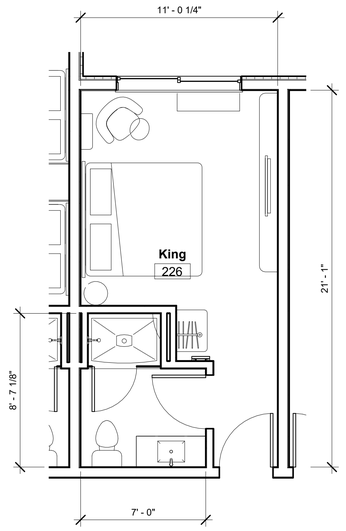
Project No. 16-111
Prepared by Author
Checked by Checker
Date Sept. 13, 2017

Sheet No.
A404

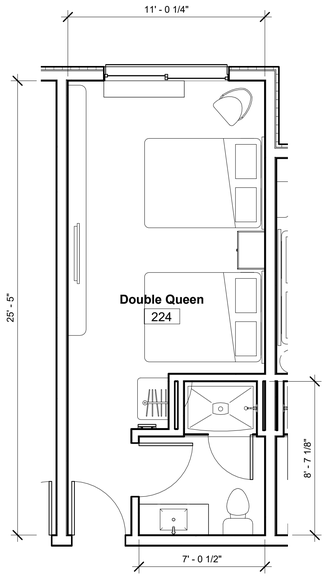
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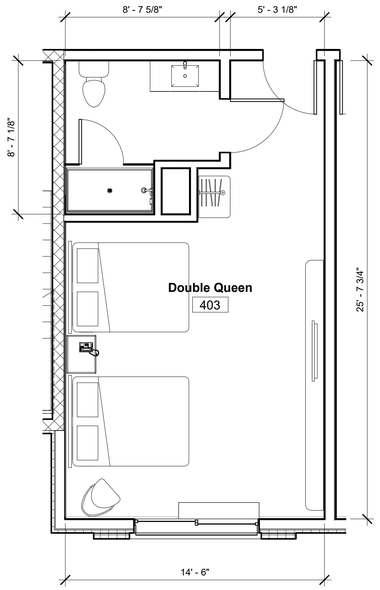
Tru Hotel



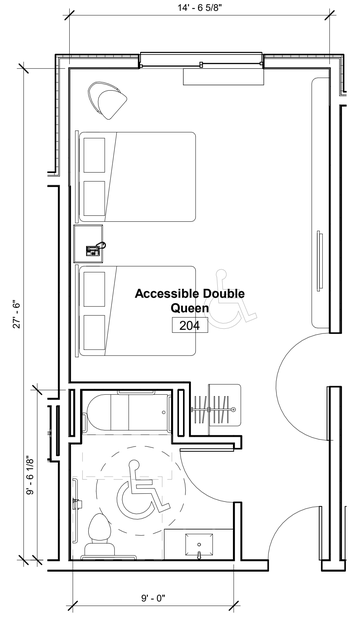
1 King
1/4" = 1'-0"



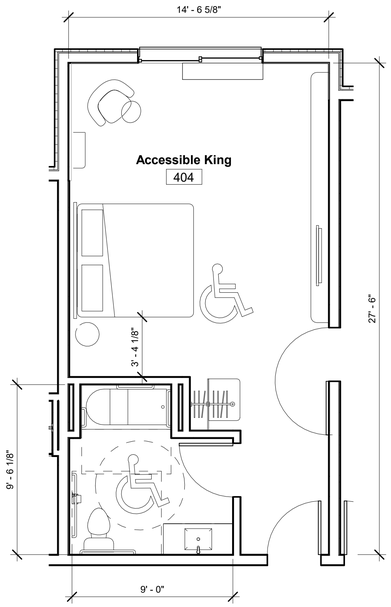
2 Double Queen
1/4" = 1'-0"



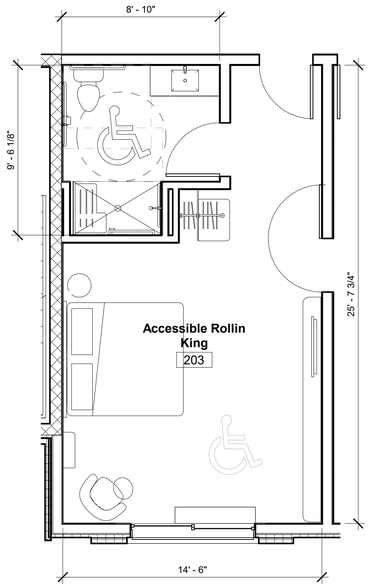
3 Double Queen Wide
1/4" = 1'-0"



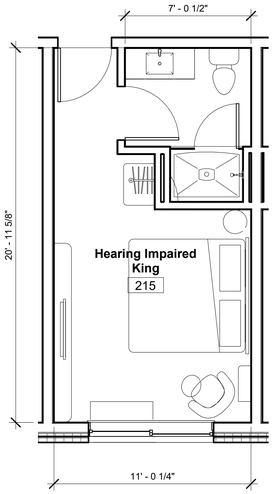
4 Accessible Double Queen
1/4" = 1'-0"



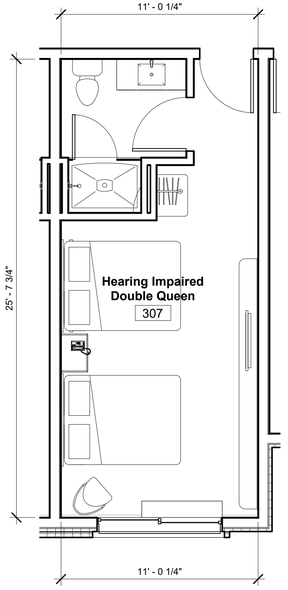
5 Accessible King
1/4" = 1'-0"



6 Accessible Rollin King
1/4" = 1'-0"



7 Hearing Impaired King
1/4" = 1'-0"



8 Hearing Impaired Double Queen
1/4" = 1'-0"

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REVISIONS

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Room Layouts

Phase
Design Development

Project No.	16-111
Prepared by	Author
Checked by	Checker
Date	Sept. 13, 2017

Sheet No.
A501

Released for
Review

9/13/2017 8:09:02 AM

Tru Hotel

SCALE : 1"=30'

LOT 1
SAM'S REAL ESTATE BUSINESS TRUST
(SAM'S WHOLESALE CLUB)
(5400 FRONTAGE ROAD, MONROE, LA. 71202)

N47°22'37"W
60.32'
N33°38'37"E
55.54'
N90°00'00"W
135.44'
29872.53 SQ FT
N47°08'15"E
37.45'
N45°31'46"E
30.27'
S89°57'18"W-192.91'(C)
S45°00'00"W
24.00'
TOP: 70.93
TOP: 69.70
TOP: 67.17
TOP: 71.58
INTERSTATE HIGHWAY 20 FRONTAGE ROAD
N45°31'46"E-242.97'(C)
AREA CATCH BASIN TOP 71.00 INV.69.00
FINISH FLOOR ELEV. 73.00
LOWER TOP ELEV. TO 70.50 INV. IN ELEV. 68.50
DRAIN BOX TOP: 71.47 INV: 67.60
12"HDPE
15"HDPE
18"HDPE
AREA CATCH BASIN TOP 74.25 INV. 69.25
AREA CATCH BASIN TOP 70.60 INV 68.60
AREA CATCH BASIN TOP 70.25 INV.68.25
N00°00'00"E-159.61'(C)
N00°00'00"E-389.70'
WATERS EDGE
INV. 67.75
MATCH EXISTING ELEVATION
EXISTING DETENTION POND
24" REINFORCED CONCRETE PIPE
OFFSET
N89°57'10"E-376.05'(C)
LOT 3
(1.66± ACRES)
10' REAR BUILDING SETBACK LINE
S00°00'00"E-159.35'(C)
DRAIN INLET
℄ ROAD
END OF ROAD
TOP=69.95
INVERT=59.83
N43°31'48"E-220.31'(C)
N43°31'43"E-220.32'(F)
TOP=70.06
INVERT=58.44
FND. 5/8" I.R.
S89°49'04"W-162.56'(C)
N02°24'06"E-1.00'(C)
FND. 1" I.R.
S89°49'04"W-365.87'(C),(F)
FND. 5/8" I.R.
℄ GARRETT ROAD
CONCETE PARKING LOT
COVERED AREA
COVER AREA
CONVENIENT STORE
(NOW OR FORMERLY)
PROPERTY OF
PETROLEUM REALTY VI, LLC
HOTEL BUILDING
(NOW OR FORMERLY)
PROPERTY OF
SHIVAM LODGING, INC.
(BEST WESTERN AIRPORT INN)
LOT 1
(NOW OR FORMERLY)
PROPERTY OF
SAM'S REAL ESTATE BUSINESS TRUST
(SAM'S WHOLESALE CLUB)
(5400 FRONTAGE ROAD, MONROE, LA. 71202)

LEGEND

68.71 EXISTING GRADE
70.00 FINISH GRADE

FLOOD ZONE DATA

1. PROPERTY IS LOCATED IN FLOOD ZONE 'X' SHADED (AREAS OF 500 YEAR FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1') ACCORDING TO PANEL 75, 22073C0075E, DATED MARCH 15, 1994.

FOR REVIEW ONLY

DAVID LANE BEAIRD & ASSOCIATES, INC
CIVIL & STRUCTURAL ENGINEERS PLANNING PROJECT MANAGEMENT
105 COMMERCIAL PARKWAY, WEST MONROE, LOUISIANA 71291 (318) 388-3227
email: lbeaird@dlbengineering.com

SOUTHERN HOSPITALITY SERVICES MONROE, LA.

TRU HOTEL BY HILTON

GRADING PLAN

DATE: 7/19/16

C003

JOB No

CITY OF MONROE
WATER DEPT.
CONTACT: MITCH ACREE
GRAMMONT STREET
(318) 329-2385

CITY OF MONROE
SEWER DEPT.
CONTACT: CHARLES WESTROM
GRAMMONT STREET
(318) 329-2392

ENTERGY
CONTACT: CHAD MCMILLAN
CYPRESS STREET
WEST MONROE
(318) 732-7639

SCALE : 1"=30'

CONTRACTOR NOTE:
BACKFLOW PREVENTER
REQUIRED ON DOMESTIC
AND FIRE WATER. VERIFY
W/ MECHANICAL.

LOT 1
SAM'S REAL ESTATE BUSINESS TRUST
(SAM'S WHOLESALE CLUB)
(5400 FRONTAGE ROAD, MONROE, LA. 71202)

29872.53 SQ FT

TOP: 70.93
TIE 6" SERVICE INTO MANHOLE INV. 65.50
TOP: 69.70
TOP: 67.17
4" & 8" WATER TAP BY CITY
8" GATE VALVE
8" FIRE WATER
2" WATER METER BY CITY
S89°57'18"W-192.91'(C)
2" GATE VALVE
FIRE HYD.
2" SPRINKLER LINE SEE SPRINKLER LAYOUT FOR CONTINUATION
6" PVC SERVICE LINE
4" WATER SERVICE
UNDERGROUND ELECTRICAL SERVICE SUPPLY 2-4" SCH. 80 CONDUITS. VERIFY LOCATION W/ENTERGY.
4" WATER METER BY CITY
TRANSFORMER BY ENERGY
S43°31'46"W-242.97'(C)
3/4" WATER LINE W/ HOSE BIBB TO DUMPSTER
24" REINFORCED CONCRETE PIPE
EXISTING MANHOLE TOP 68.95 INV.59.83
TOP=69.95 INVERT=59.83
TOP=70.06 INVERT=58.44
FND. 5/8" I.R.
S89°49'04"W-162.56'(C)
N02°24'06"E-1.00'(C)
FND. 1" I.R.
S89°49'04"W-365.87'(C),(F)
FND. 5/8" I.R.
N43°31'48"E-220.31'(C)
N43°31'43"E-220.32'(F)
LOT 3
(1.66± ACRES)
CONCETE PARKING LOT
COVERED AREA
COVER AREA
CONVENIENT STORE
(NOW OR FORMERLY)
PROPERTY OF
PETROLEUM REALTY VI, LLC
HOTEL BUILDING
(NOW OR FORMERLY)
PROPERTY OF
SHIVAM LODGING, INC.
(BEST WESTERN AIRPORT INN)
10' REAR BUILDING SETBACK LINE
S00°00'00"E-159.35'(C)
℄ INTERSTATE HIGHWAY 20 FRONTAGE ROAD
℄ GARRETT ROAD
℄ ROAD
N00°00'00"E 399.70'
N45°00'00"W
N00°00'00"E-159.61'(C)
TOP: 71.58
WATERS EDGE
DRAIN INLET
END OF ROAD
LOT 1
(NOW OR FORMERLY)
PROPERTY OF
SAM'S REAL ESTATE BUSINESS TRUST
(SAM'S WHOLESALE CLUB)
(5400 FRONTAGE ROAD, MONROE, LA. 71202)

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email: blaird@davidlanebeaird.com

SOUTHERN HOSPITALITY SERVICES MONROE, LA.

TRU HOTEL BY HILTON

UTILITY PLAN

DATE: 9-12-13

C004

JOB No 130412

STRUCTURAL NOTES

BASIS OF DESIGN
IBC 2012
ASCE 7-10

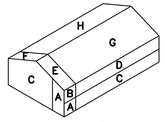
DESIGN LOADS

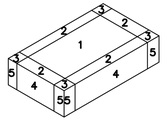
DL 1 LIVE LOADS
a. FIRST FLOOR 100 psf
b. TYPICAL FLOOR 40 psf
c. CORRIDORS SERVING ROOMS 40 psf
d. MECHANICAL ROOMS
EQUIPMENT WEIGHT NOT LESS THAN 125 psf

DL 2 ROOF 20 psf

DL 3 GROUND SNOW LOAD 20 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 12.3 psf

DL 4 WIND LOAD
e. WIND SPEED 115 mph ULT
f. WIND SPEED 90 mph ASD
g. RISK CATEGORY II
h. WIND EXPOSURE C
i. INTERNAL PRESSURE COEFFICIENT - ASD
ZONE A 20.7 psf
ZONE B -10.8 psf
ZONE C 13.8 psf
ZONE D -10.0 psf
ZONE E -24.9 psf
ZONE F -14.2 psf
ZONE G -17.3 psf
ZONE H -11.0 psf
OVERHANG
ZONE Eoh -35.0 psf Goh -27.4 psf
PARAPET LOAD 39.7 psf
j. COMPONENTS AND CLADDING - ASD
ZONE 1 10.0 psf - 23.6 psf
ZONE 2 10.0 psf - 39.5 psf
ZONE 3 10.0 psf - 59.6 psf
ZONE 4 23.6 psf - 25.6 psf
ZONE 5 23.6 psf - 31.6 psf
ROOF OVERHANG ZONE 2 -34.0 psf
ZONE 3 -56.0 psf





k. WIND BASE SHEAR
Vxult = 108 kips Vyult = 228 kips
Vxasd = 66 kips Vyasd = 140 kip

DL 5 SEISMIC DESIGN DATA

a. SEISMIC IMPORTANCE FACTOR 1.00
b. MAPPED SPECTRAL RESPONSE ACCELERATION Ss=0.152
S1=0.082
c. SITE CLASS D
d. SPECTRAL RESPONSE COEFFICIENTS Sds=0.162
Sd1=0.163
e. SEISMIC DESIGN CATEGORY C
f. BASIC SEISMIC FORCE RESISTING SYSTEM
SPECIAL REINFORCED MASONRY SHEAR WALL
g. DESIGN BASE SHEAR 80 KIPS
h. RESPONSE MODIFICATION FACTORS R 5.0
i. SEISMIC RESPONSE COEFFICIENT Cd 3.5
j. ANALYSIS PROCEDURE -- EQUIVALENT FORCE METHOD

DL 6 DESIGN DEAD LOADS

a. FLOOR DEAD LOAD

WOOD FRAMING	=	5 psf
¾" T&G PLYWOOD	=	2 psf
1½" GYPSUM TOPPING	=	14 psf
⅝" DRYWALL CEILING	=	2 psf
WALLS	=	8 psf
MECHANICAL DUCTS & PIPING	=	4 psf
TOTAL DEAD LOAD	=	35 psf

b. ROOF DEAD LOAD

WOOD FRAMING	=	5 psf
⅝" PLYWOOD	=	2 psf
⅝" DRYWALL CEILING	=	2 psf
MECHANICAL DUCTS & LIGHTING	=	4 psf
6" INSULATION AVERAGE	=	2 psf
ROOFING	=	6 psf
TOTAL DEAD LOAD	=	21 psf

FOUNDATIONS

FD 1 SOIL BEARING PRESSURE..... 5,000 psf ON GEO-PIER REINFORCED SOIL

GEOTECHNICAL INVESTIGATION REPORT PREPARED BY:
ARDAMAN & ASSOCIATES, INC.
7222 GREENWOOD ROAD
SHREVEPORT, LOUISIANA 71119
PHONE: 318-636-3673
AAI PROJECT NO.: 113-17-94-8536
FILE NO.: 17.94.041

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. DRAINAGE MATERIAL MAY BE ELIMINATED IF 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 LAP (IN)	MIN EMBEDMENT, (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

MASONRY

MA 1 REINFORCED MASONRY SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR DESIGN AND CONSTRUCTION FOR LOAD BEARING CONCRETE MASONRY PUBLISHED BY THE NATIONAL CONCRETE MASONRY ASSOCIATION.

MA 2 REINFORCED BRICK LINTELS SHALL BE IN ACCORDANCE WITH TECHNICAL NOTES 17TH PUBLISHED BY THE BRICK INSTITUTE OF AMERICA, AND "BUILDING CODE REQUIREMENTS FOR ENGINEERED BRICK MASONRY", BY STRUCTURAL CLAY PRODUCTS INSTITUTE.

MA 3 ALL CONCRETE HOLLOW BLOCK UNITS SHALL BE NORMAL WEIGHT 2 CELL UNITS AND CONFORM TO ASTM C-90. ALL UNITS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF f'm = 1,350 psi.

MA 4 COURSE GROUT SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS AND SHALL DEVELOP A MINIMUM COMPRESSIVE STRESS OF 3000 psi AT 28 DAYS.

MA 5 MORTAR SHALL BE TYPE M OR TYPE S. MORTAR SHALL NOT BE USED FOR GROUT FILL.

MA 6 ALL CONCRETE HOLLOW BLOCK UNITS SHALL BE LAID IN A COMMON BOND PATTERN.

MA 7 LAP ALL REINFORCING BARS IN MASONRY 40 BAR DIAMETERS AT SPLICES.

MA 8 HORIZONTAL REINFORCING BARS SHALL BE IN BOND BEAM BLOCKS AT FLOORS AND ROOF. WHERE HORIZONTAL REINFORCING BARS ARE REQUIRED BETWEEN FLOORS, BARS SHALL BE IN INTERMEDIATE (OPEN BOTTOM) BOND UNITS.

MA 9 HORIZONTAL JOINT REINFORCING SHALL BE CONTINUOUS AROUND ALL CORNERS AND INTERSECTIONS AND SHALL BE LAPPED 8" AT SPLICES. HORIZONTAL JOINT REINFORCING SHALL BE TRUSS TYPE NO. 9 WIRE, GALVANIZED AND SPACED AT 16" o.c.

MA 10 FILL ALL CMU AND CAVITY BETWEEN INTERIOR AND EXTERIOR WYTHE BELOW FINISH FLOOR WITH GROUT OR MORTAR.

MA 11 PROVIDE BOND BEAMS AT TOPS OF ALL WALLS WITH 2 #5 CONT. AND WHERE WALLS ARE TO UNDERSIDE OF ROOF, GROUT TIGHT TO ROOF.

MA 12 FOR WALLS GREATER THAN 12'-0" HIGH PROVIDE BOND BEAMS AT 8'-0" ON CENTER WITH 2 #5 CONT.

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	¾" HOOKED UNO

5" PROJECTION + 9" EMBED + 3" HOOK

ST 2 CONTRACTOR MAY USE EPOXY ALL THREAD BOLTS FOR COLUMN BASE PLATE ANCHOR BOLTS. EMBEDMENT TO BE 9".

ST 3 EPOXY SHALL BE HILTI HY-200, SIMPSON STRONG TIE ET-HP OR SIMPSON STRONG TIE SET OR PRE-APPROVED EQUAL

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.

ST11 FIELD TORCH CUTTING OF COLUMN BASE PLATES FOR MISS LOCATED ANCHOR BOLTS IS NOT ALLOWED. HOLES CAN BE DRILLED IN THE PROPER LOCATIONS OR NEW STRAIGHT ANCHOR BOLTS CAN BE DRILLED AND EPOXIED INTO PLACE SEE NOTE ST3 ABOVE.

ST12 WHERE ANCHOR BOLT EXTENSION IS INSUFFICIENT TO FULLY ENGAGE THE BOLT THREADS THE ANCHOR BOLT MAY BE WELDED TO THE BASE PLATE WITH ¼" WELD ALL ROUND.

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 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. WELDED WIRE MESH IS TO BE PLACED WITH ¾" COVER +½"/-0".

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.

METAL ROOF DECK

RD 1 ROOF DECK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND CODE OF RECOMMENDED PRACTICE OF THE STEEL DECK INSTITUTE. MINIMUM SECTION PROPERTIES SHALL BE AS FOLLOWS:
a. FLAT ROOF
1½" DEEP, 22 GAGE, S=0.134 IN3/FT, I=0.131 IN4/FT
YIELD STRENGTH = 60,000 PSI, INTERMEDIATE RIB (TYPE F)

SHEATHING UNDER METAL ROOFING
1" DEEP, 22 GAGE, S=0.13 IN3/FT, I=0.073 IN4/FT
YIELD STRENGTH = 60,000 PSI, FLUTED NON-COMPOSITE

RD 2 PROVIDE ROOF DECK WITH G90 GALVANIZE FINISH.

RD 3 ATTACH DECK WITH 36/7 PATTERN #12 SCREWS TO SUPPORTS AND TWO #10 STITCH FASTENERS

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 G60 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

GENERAL

GN 1 THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOBSITE WITH ARCHITECTURAL AND OTHER TRADE DRAWINGS.

GN 2 UNLESS OTHERWISE SHOWN, ALL TYPICAL DETAILS (WHERE APPLICABLE) SHALL BE USED.

GN 3 THIS PROJECT HAS BEEN DESIGNED FOR THE WEIGHTS OF THE MATERIALS INDICATED ON THE DRAWINGS FOR THE LIVE LOADS INDICATED IN THE DESIGN LOADS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALLOWABLE CONSTRUCTION LOADS AND TO PROVIDE PROPER DESIGN AND

GN 4 CONSTRUCTION OF FALSEWORK, FORMWORK, STAGING, BRACING, SHEETING AND SHORING, ETC

GN 5 WATERPROOFING, FLASHING AND FIREPROOFING REQUIREMENTS ARE NOT THE RESPONSIBLE THESE STRUCTURAL DRAWINGS. THE GENERAL CONTRACTOR SHALL REFER TO OTHER PLANS AND SPECIFICATIONS FOR THESE MATERIALS.

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. MORTAR DESIGN MIX - EACH TYPE
c. GROUT MIX - COURSE AND FINE
d. STRUCTURAL STEEL ERECTION DRAWINGS
e. METAL DECK LAYOUT PLANS
f. LOAD BEARING METAL STUD WALLS/FRAMING LAYOUT

DRAWING INDEX

S001 STRUCTURAL NOTES
S002 STRUCTURAL SPECIAL INSPECTIONS
S101 FOUNDATION PLAN
S102 FIRST FLOOR PLAN
S201 SECOND FLOOR FRAMING PLAN
S202 THIRD FLOOR FRAMING PLAN
S203 FOURTH FLOOR FRAMING PLAN
S204 FIFTH FLOOR FRAMING PLAN
S205 ROOF FRAMING PLAN
S301 FOUNDATION SECTIONS
S302 FOUNDATION SECTIONS
S401 MASONRY DETAILS
S402 METAL STUD DETAILS
S403 METAL STUD DETAILS
S501 FRAMING SECTIONS
S502 FRAMING SECTIONS
S503 FRAMING SECTIONS
S504 FRAMING SECTIONS
S505 FRAMING SECTIONS
S701 EXTERIOR STORAGE & TRASH CONTAINER PLANS & SECTIONS

PRELIMINARY

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

This Drawing and The Design Shown Thereon Are The Property Of Whisonant Engineering Services, LLC. Non-Copying, Or Use Of This Drawing Without Written Consent Is Prohibited And Violators Will Be Subject To Legal Action.

STAMP:

NO. DATE REVISION

TRU HOTEL
5400 I-20 & FRONTAGE ROAD
MONROE, LA 71201

tru by HILTON

RELEASED FOR:
■ PRELIMINARY ONLY
□ BIDDING/PRICING
□ PERMIT
□ CONSTRUCTION
DATE : 08-29-17

DRAWING TITLE:
STRUCTURAL NOTES

SCALE:
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WOW
SHEET NO:
S001

8/29/2017 2:10:26 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

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCED FOR CRITERIA	
	CONTINUOUS	PERIODIC	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6
1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	–	X	–	Art. 1.5
2. Verification of $f'm$ and $f'AAC$ prior to construction except where specifically exempted by this code.	–	X	–	Art. 1.4B
3. Verification of slump flow and visual stability index (VSI) as delivered to the site for self–consolidating grout.	X	–	–	Art. 1.5B.1.b.3
4. As masonry construction begins, the following shall be verified to ensure compliance:				
a. Proportions of site–prepared mortar.	–	X	–	Art. 2.6A
b. Construction of mortar joints.	–	X	–	Art. 3.3B
c. Location of reinforcement, connectors, prestressing tendons and anchorages.	–	X	–	Art. 3.4, 3.6A
d. Prestressing technique.	–	X	–	Art. 3.6B
e. Grade and size of prestressing tendons and anchorages.	–	X	–	Art. 2.4B, 2.4H
5. During construction the inspection program shall verify:				
a. Size and location of structural elements.	–	X	–	Art. 3.3F
b. Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	–	X	Sec. 1.2.2(e) 1.16.1	–
c. Specified size, grade and type of reinforcement, anchor bolts, prestressing tendons and anchorages.	–	X	Sec. 1.15	Art. 2.4, 3.4
d. Welding of reinforcing bars.	X	–	Sec. 2.1.9.7.2 3.3.3.4(b)	–
e. Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	–	X	–	Art. 1.8C, 1.8D
f. Application and measurement of prestressing force.	X	–	–	Art. 3.6B
6. Prior to grouting, the following shall be verified to ensure compliance:				
a. Grout space is clean.	–	X	–	Art. 3.2D
b. Placement of reinforcement and connectors, and prestressing tendons and anchorages.	–	X		Art. 3.4
c. Proportions of site–prepared grout and prestressing grout for bonded tendons.	–	X	–	Art. 2.6B
d. Construction of mortar joints.	–	X	–	Art. 3.3B
7. Grout placement shall be verified to ensure compliance:	X	–	–	Art. 3.5
a. Grouting of prestressing bonded tendons.	X	–	–	Art. 3.6C
8. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed.	–	X	–	Art. 1.4

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	–

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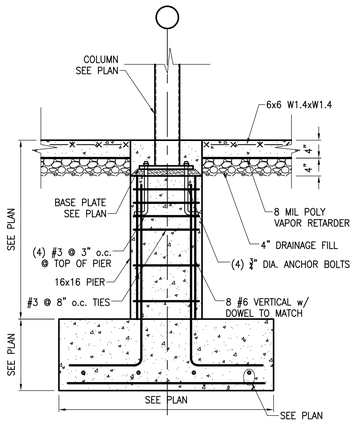
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STRUCTURAL SPECIAL INSPECTION

SCALE:
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

SHEET NO:
S002

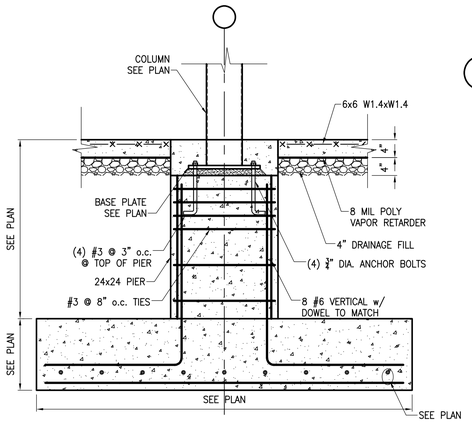
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PIER P1 DETAIL

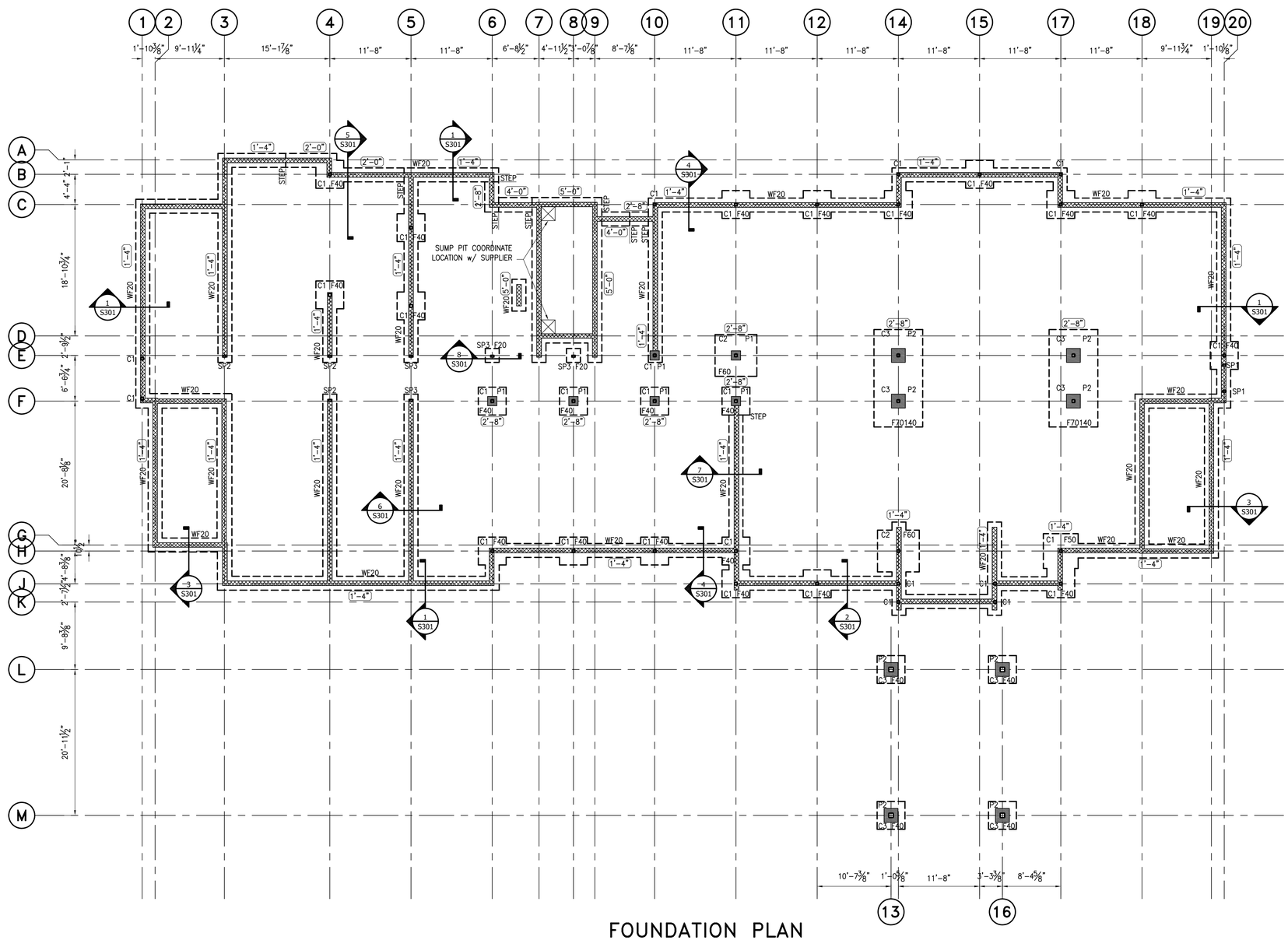
3/4" = 1'-0"



PIER P2 DETAIL

3/4" = 1'-0"

1. AT CONTRACTORS OPTION PIER MAY BE PLACED UNDER ANY INTERIOR COLUMN
2. PIERS TO BE OFFSET TOWARD THE INSIDE ON EXTERIOR WALLS



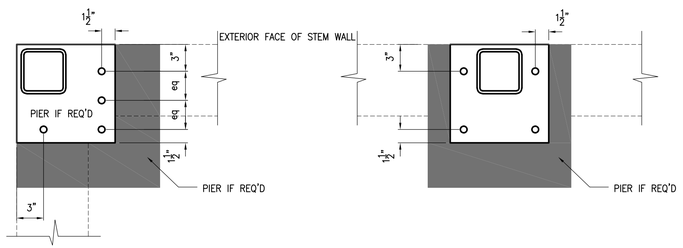
FOUNDATION PLAN

1/8" = 1'-0"

GRADING PLAN WAS NOT PROVIDED FOR FOUNDATION DESIGN. SOIL REPORT REQUIRES FOUNDATIONS TO BE PLACED 3 FEET BELOW EXISTING GRADE. TOP OF INTERIOR FOOTINGS (EXCEPT AROUND ELEVATOR) MAY BE ADJUSTED BY THE BUILDER BASED ON THIS REQUIREMENT.
EXTERIOR FOOTING TO REMAIN AS NOTED.

BUILDER HAS OPTION TO USE CONCRETE OR CMU STEM WALLS.

(x'-x") INDICATES TOP OF FOOTING BELOW FINISHED FLOOR



CORNER CONDITION WALL CONDITION

OFFSET BASE PLATE DETAILS

1 1/2" = 1'-0" OCCURS AT EXTERIOR WALL CONDITIONS

COLUMN SCHEDULE		
MARK	SIZE	BASE PLATE
C1	HSS 6x6x⅜	12x12x1
C2	HSS 6x6x½	12x12x1¼
C3	HSS 8x8x½	16x16x1½

FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F20	2'-0" x 2'-0" x 12"	3 #5 EW
F40	4'-0" x 4'-0" x 12"	4 #5 EW
F50	5'-0" x 5'-0" x 12"	5 #5 EW
F60	6'-0" x 6'-0" x 14"	7 #5 EW
F70	7'-0" x 7'-0" x 18"	9 #5 EW
F70140	7'-0" x 14'-0" x 18"	#7@12" EW
WF20	2'-0" x 12"	3 #5 LONG #5 @ 8" SHORT

STUD PACK SCHEDULE			
	SP1	SP2	SP3
FLOOR	STUD SIZE	STUD SIZE	STUD SIZE
5th	(2) 600S162-43x33	(2) 600S162-43x33	(2) 600S162-43x33
4th	(2) 600S162-43x33	(2) 600S162-43x33	(2) 600S162-43x33
3rd	(2) 600S162-43x33	(2) 600S162-54x50	(2) 600S162-54x50
2nd	(2) 600S162-43x33	(2) 600S162-68x50	(2) 600S162-54x50
1st	(2) 600S162-54x50	(2) 600S200-54x50	(2) 600S162-68x50

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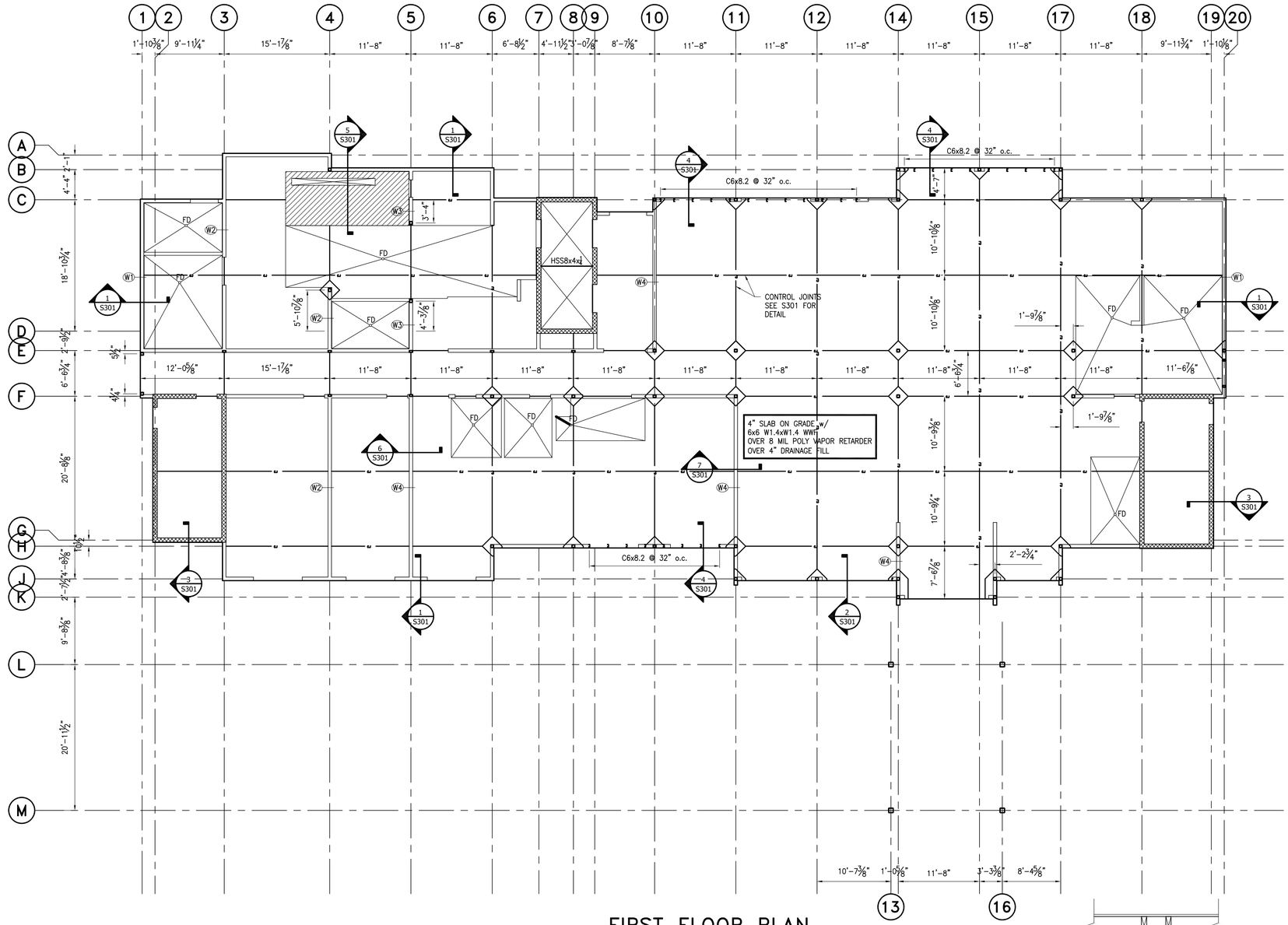
DRAWING TITLE:
FOUNDATION PLAN

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
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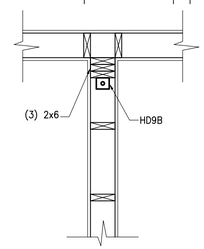
FIRST FLOOR PLAN

1/8" = 1'-0"

WALL SCHEDULE															
W1			W2			W3			W4			W5			
FLOOR	STUD SIZE	SPACING	FLOOR	STUD SIZE	SPACING	FLOOR	STUD SIZE	SPACING	FLOOR	STUD SIZE	SPACING	FLOOR	STUD SIZE	SPACING
5th	600S162-43x33	16" o.c.	5th	600S162-43x33	16" o.c.	5th	600S162-43x33	16" o.c.	5th	600S162-43x33	16" o.c.	5th		16" o.c.
4th	600S162-43x33	16" o.c.	4th	600S162-43x33	16" o.c.	4th	600S162-54x50	16" o.c.	4th	600S162-43x33	16" o.c.	4th		16" o.c.
3rd	600S162-43x33	16" o.c.	3rd	600S162-54x50	16" o.c.	3rd	600S162-54x50	16" o.c.	3rd	600S162-54x50	16" o.c.	3rd		16" o.c.
2nd	600S162-54x50	16" o.c.	2nd	600S162-68x50	16" o.c.	2nd	600S162-68x50	16" o.c.	2nd	600S162-54x50	16" o.c.	2nd		16" o.c.
1st	600S250-54x50	16" o.c.	1st	600S200-68x50	16" o.c.	1st	(2) 600S162-54x50	16" o.c.	1st	600S200-68x50	16" o.c.	1st		16" o.c.

TOP TRACK TO MATCH STUD GAGE BUT NOT LESS THAN 600T162-54x50 FOR 6" WALLS.
PROVIDE HORIZONTAL BRIDGING AT 1/3 POINTS.

WALL SCHEDULE	
TYPE	
SHEAR WALL	



1 / S102 SHEAR WALL HOLD DOWN DETAIL

3/4" = 1'-0"

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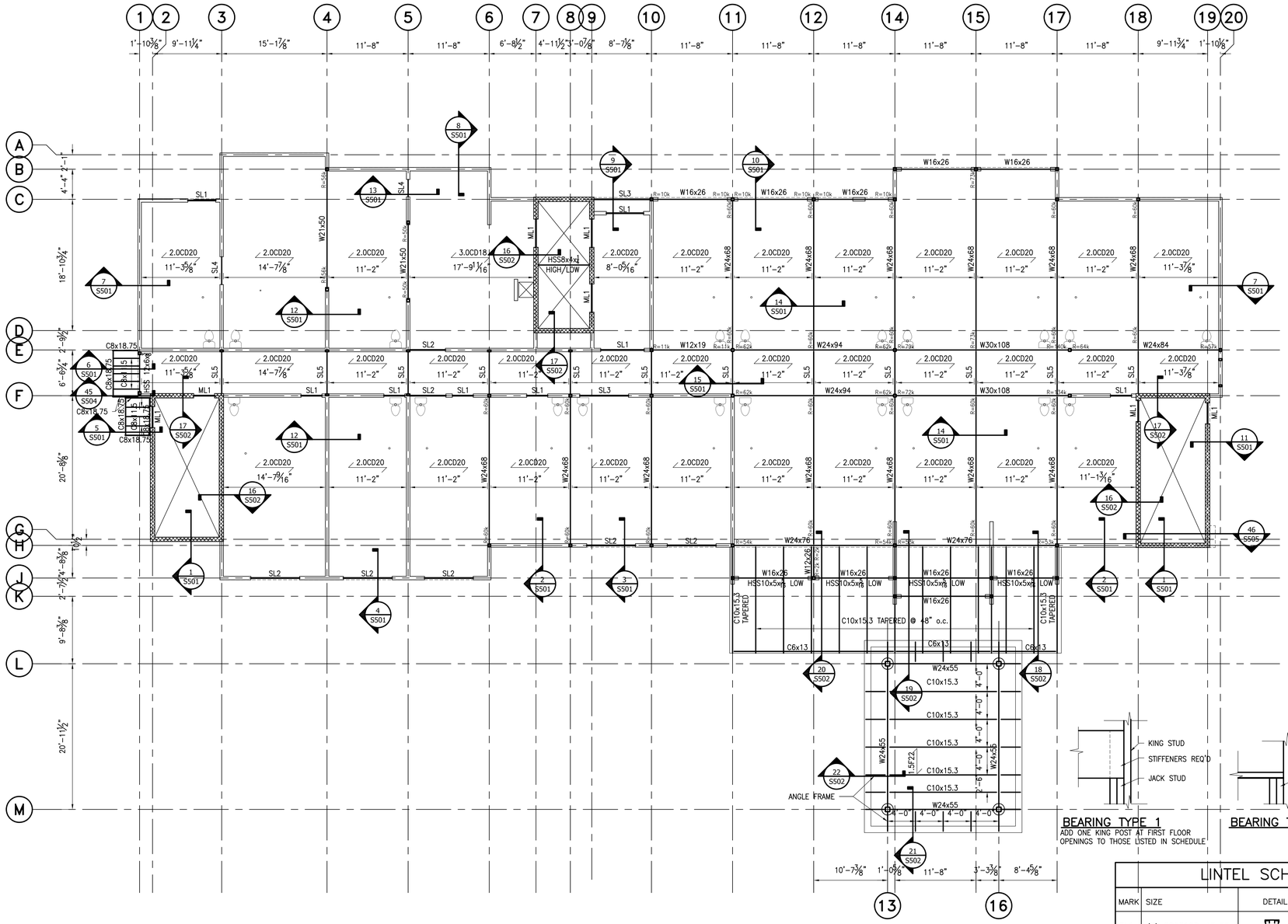
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DRAWING TITLE:
FIRST FLOOR PLAN

SCALE: AS SHOWN
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DATE: 08-29-17
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SHEET NO: S102

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

BEARING TYPE 2

BEARING TYPE 3

SECOND FLOOR FRAMING PLAN

1/8" = 1'-0" FINISHED FLOOR +12'-0"

LINTEL SCHEDULE

MARK	SIZE	DETAIL	BEARING TYPE	SUPPORT
SL1	(2) 600S162-43x33		1	2 JACK STUDS 1 KING STUD
SL2	(2) 600S162-54x50		1	2 JACK STUDS 1 KING STUD
SL3	(2) 800S162-68x50		1	2 JACK STUDS 1 KING STUD
SL4	HSS6x6x1/4		2	2 JACK STUDS 1 KING STUD
SL5	(2) L5x3.5x3/8		2	STUD PACK SEE PLAN 1 KING STUD
ML1	8F8-1B1T CAST CRETE		3	

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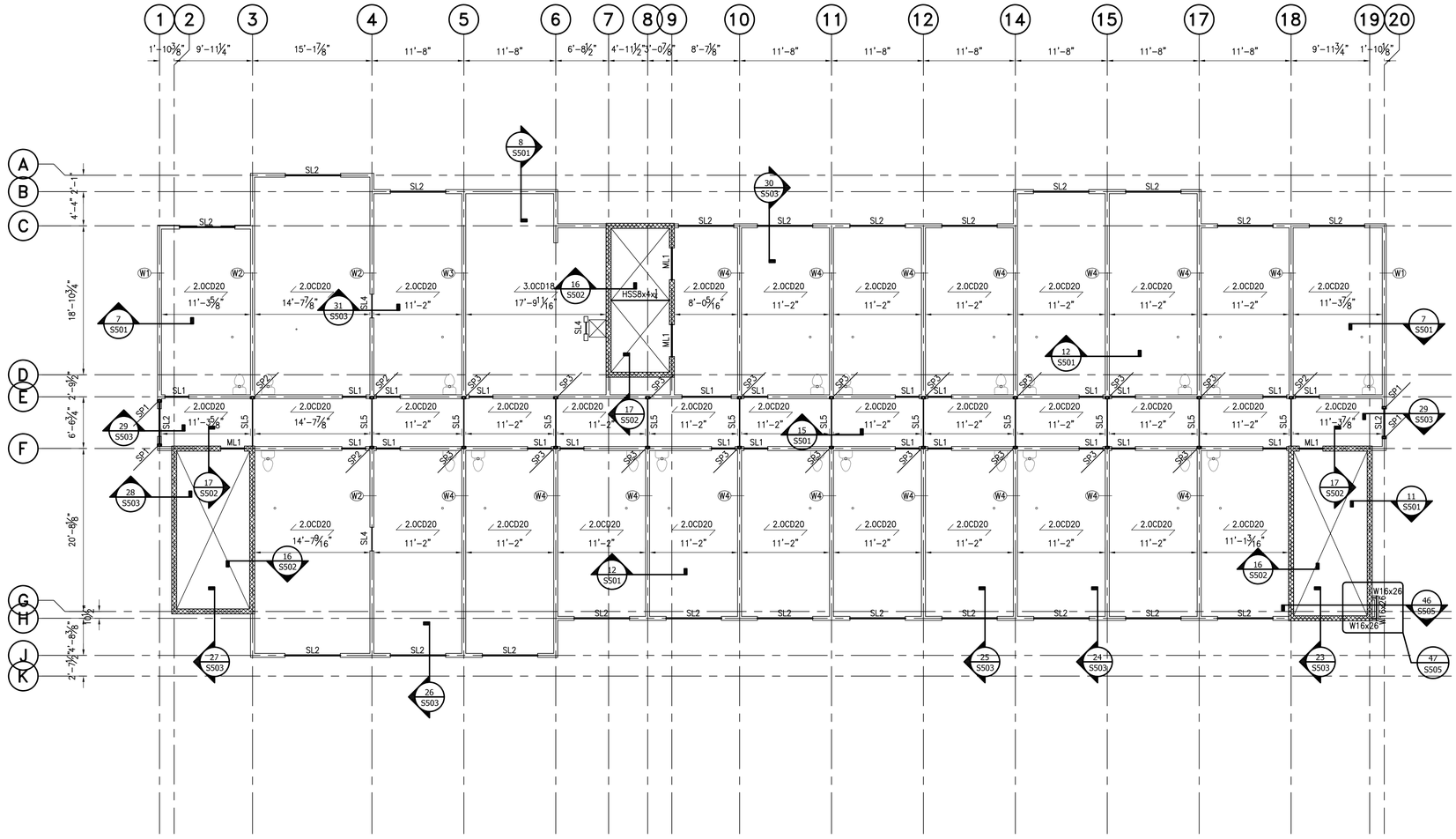
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DRAWING TITLE:
SECOND FLOOR FRAMING PLAN

SCALE: AS SHOWN
PROJECT NO: 037R01
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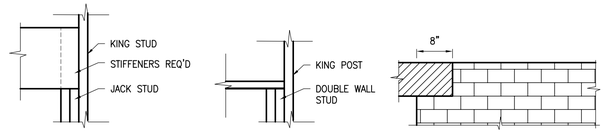
THIRD FLOOR FRAMING PLAN

1/8" = 1'-0" FINISHED FLOOR +22'-4"

STUD PACK SCHEDULE			
	SP1	SP2	SP3
FLOOR	STUD SIZE	STUD SIZE	STUD SIZE
5th	(2) 600S162-43x33	(2) 600S162-43x33	(2) 600S162-43x33
4th	(2) 600S162-43x33	(2) 600S162-43x33	(2) 600S162-43x33
3rd	(2) 600S162-43x33	(2) 600S162-54x50	(2) 600S162-54x50
2nd	(2) 600S162-43x33	(2) 600S162-68x50	(2) 600S162-54x50
1st	(2) 600S162-54x50	(2) 600S200-54x50	(2) 600S162-68x50

WALL SCHEDULE														
W1			W2			W3			W4			W5		
FLOOR	STUD SIZE	SPACING	FLOOR	STUD SIZE	SPACING	FLOOR	STUD SIZE	SPACING	FLOOR	STUD SIZE	SPACING	FLOOR	STUD SIZE	SPACING
5th	600S162-43x33	16" o.c.	5th	600S162-43x33	16" o.c.	5th	600S162-43x33	16" o.c.	5th	600S162-43x33	16" o.c.	5th		16" o.c.
4th	600S162-43x33	16" o.c.	4th	600S162-43x33	16" o.c.	4th	600S162-54x50	16" o.c.	4th	600S162-43x33	16" o.c.	4th		16" o.c.
3rd	600S162-43x33	16" o.c.	3rd	600S162-54x50	16" o.c.	3rd	600S162-54x50	16" o.c.	3rd	600S162-54x50	16" o.c.	3rd		16" o.c.
2nd	600S162-54x50	16" o.c.	2nd	600S162-68x50	16" o.c.	2nd	600S162-68x50	16" o.c.	2nd	600S162-54x50	16" o.c.	2nd		16" o.c.
1st	600S250-54x50	16" o.c.	1st	600S200-68x50	16" o.c.	1st	(2) 600S162-54x50	16" o.c.	1st	600S200-68x50	16" o.c.	1st		16" o.c.

TOP TRACK TO MATCH STUD GAGE BUT NOT LESS THAN 600T162-54x50 FOR 6" WALLS.
PROVIDE HORIZONTAL BRIDGING AT 1/3 POINTS.



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

BEARING TYPE 2

BEARING TYPE 3

LINTEL SCHEDULE

MARK	SIZE	DETAIL	BEARING TYPE	SUPPORT
SL1	(2) 600S162-43x33		1	2 JACK STUDS 1 KING STUD
SL2	(2) 600S162-54x50		1	2 JACK STUDS 1 KING STUD
SL3	(2) 800S162-68x50		1	2 JACK STUDS 1 KING STUD
SL4	HSS6x6x1/4		2	2 JACK STUDS 1 KING STUD
SL5	(2) L5x3.5x3/8		2	STUD PACK SEE PLAN 1 KING STUD
ML1	8F8-1B1T CAST CRETE		3	

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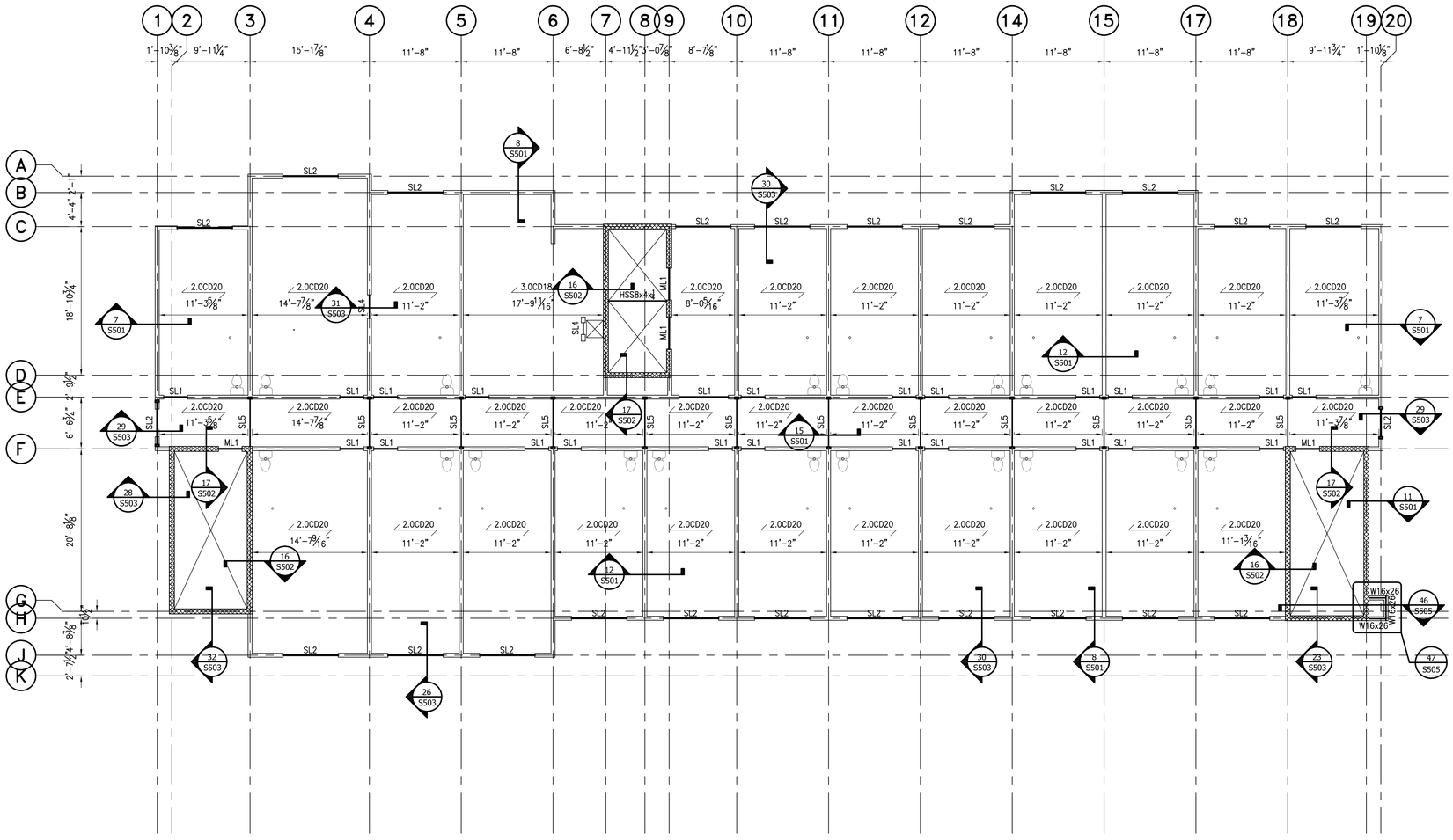
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SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

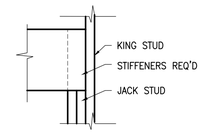
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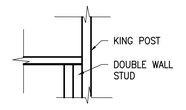


FOURTH FLOOR FRAMING PLAN

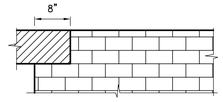
1/8" = 1'-0" FINISHED FLOOR +32'-8"



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



BEARING TYPE 2



BEARING TYPE 3

LINTEL SCHEDULE

MARK	SIZE	DETAIL	BEARING TYPE	SUPPORT
SL1	(2) 600S162-43x33		1	2 JACK STUDS 1 KING STUD
SL2	(2) 600S162-54x50		1	2 JACK STUDS 1 KING STUD
SL3	(2) 800S162-68x50		1	2 JACK STUDS 1 KING STUD
SL4	HSS6x6x1/4		2	2 JACK STUDS 1 KING STUD
SL5	(2) L5x3.5x3/8		2	STUD PACK SEE PLAN 1 KING STUD
ML1	8F8-1B1T CAST CRETE		3	

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tru by HILTON

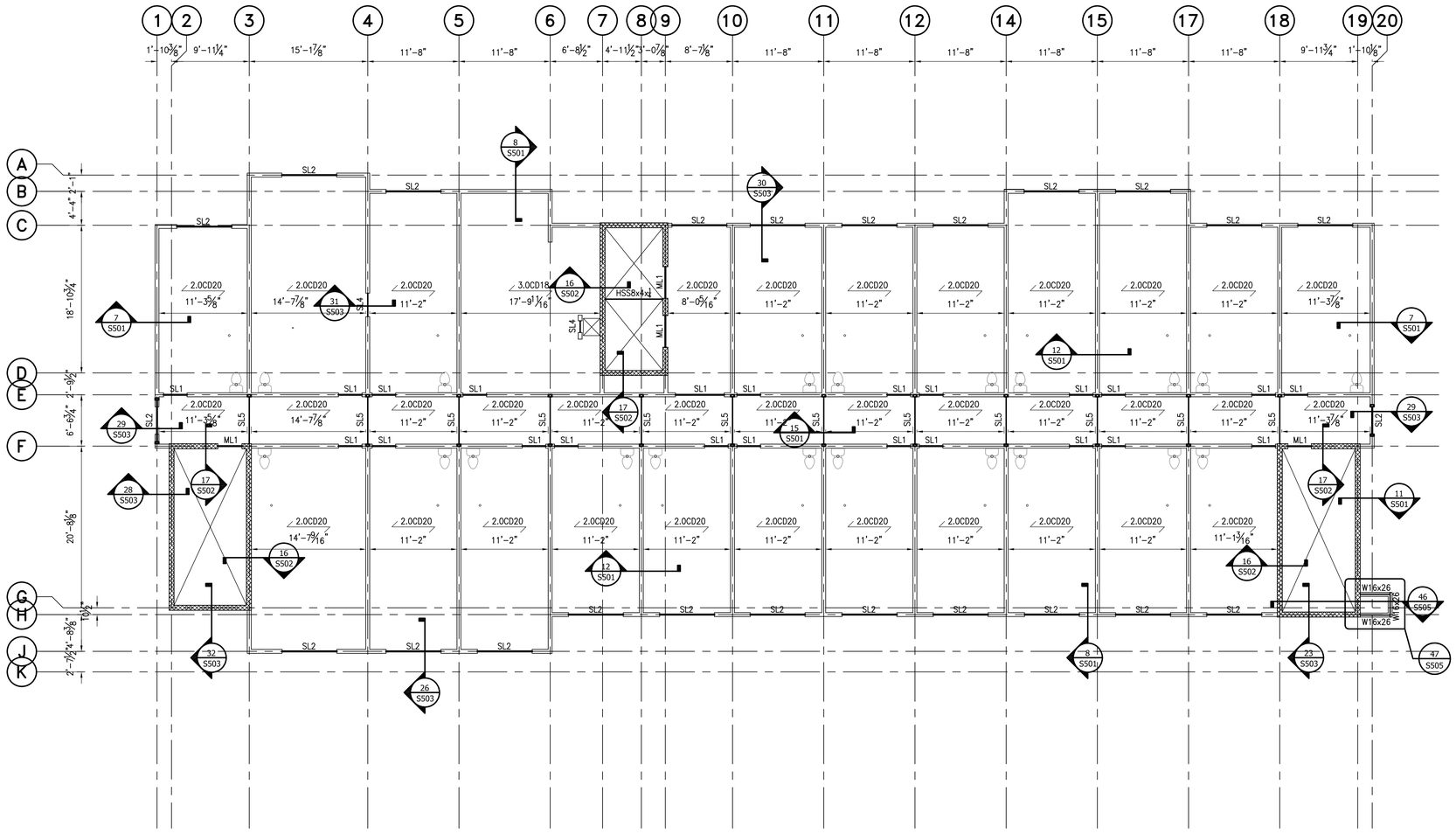
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□ CONSTRUCTION
DATE : 08-29-17

DRAWING TITLE:
FOURTH FLOOR FRAMING PLAN

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

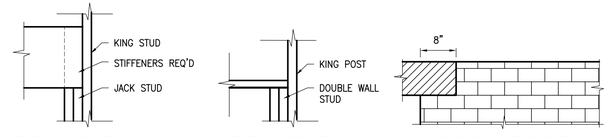
SHEET NO:
S203

8/29/2017 2:10:33 PM



FIFTH FLOOR FRAMING PLAN

1/8" = 1'-0" FINISHED FLOOR +43'-0"



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

BEARING TYPE 2

BEARING TYPE 3

LINTEL SCHEDULE

MARK	SIZE	DETAIL	BEARING TYPE	SUPPORT
SL1	(2) 600S162-43x33		1	2 JACK STUDS 1 KING STUD
SL2	(2) 600S162-54x50		1	2 JACK STUDS 1 KING STUD
SL3	(2) 800S162-68x50		1	2 JACK STUDS 1 KING STUD
SL4	HSS6x6x1/4		2	2 JACK STUDS 1 KING STUD
SL5	(2) L5x3.5x3/8		2	STUD PACK SEE PLAN 1 KING STUD
ML1	8F8-1B1T CAST CRETE		3	

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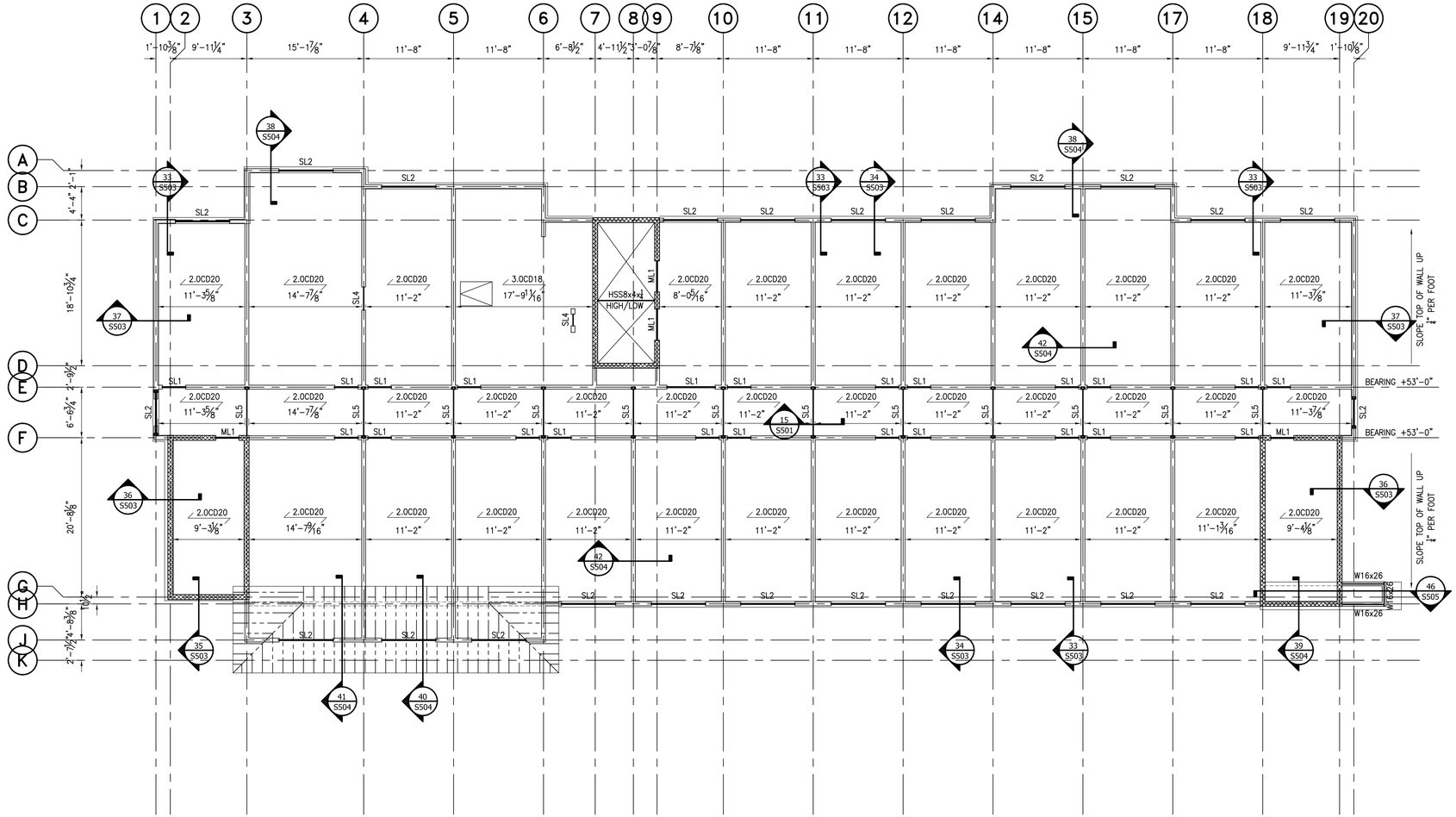
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□ PERMIT
□ CONSTRUCTION
DATE : 08-29-17

DRAWING TITLE:
FIFTH FLOOR FRAMING PLAN

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

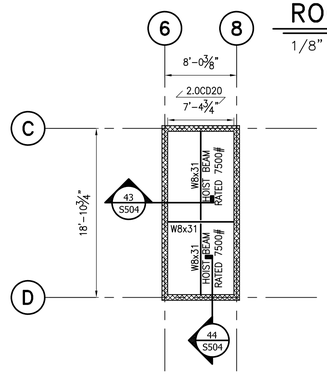
SHEET NO:
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ROOF FRAMING PLAN

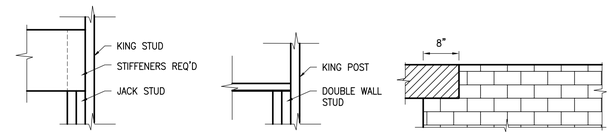
1/8" = 1'-0"



HIGH ROOF FRAMING PLAN

1/8" = 1'-0"

G.C. VERIFY BEARING w/ ARCH



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

BEARING TYPE 2

BEARING TYPE 3

LINTEL SCHEDULE

MARK	SIZE	DETAIL	BEARING TYPE	SUPPORT
SL1	(2) 600S162-43x33		1	2 JACK STUDS 1 KING STUD
SL2	(2) 600S162-54x50		1	2 JACK STUDS 1 KING STUD
SL3	(2) 800S162-68x50		1	2 JACK STUDS 1 KING STUD
SL4	HSS6x6x1/4		2	2 JACK STUDS 1 KING STUD
SL5	(2) L5x3.5x3/8		2	STUD PACK SEE PLAN 1 KING STUD
ML1	8F8-1B1T CAST CRETE		3	

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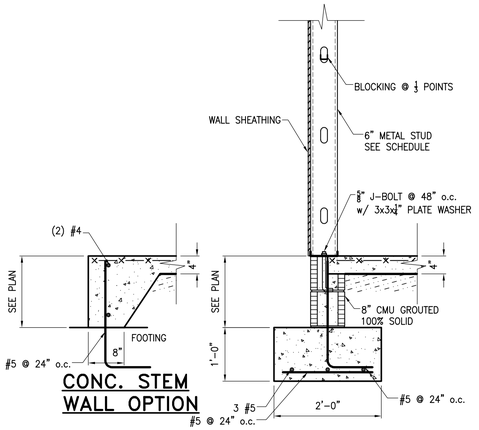
DATE : 08-29-17

DRAWING TITLE:
ROOF FRAMING PLAN

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

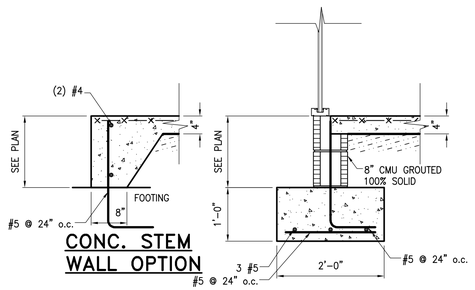
SHEET NO:
S205

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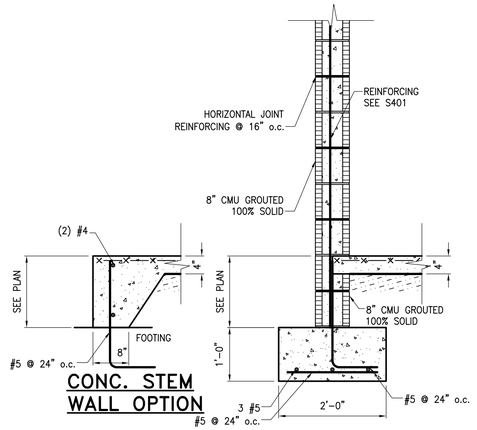
CONC. STEM WALL OPTION

1 SECTION S301
3/4" = 1'-0"



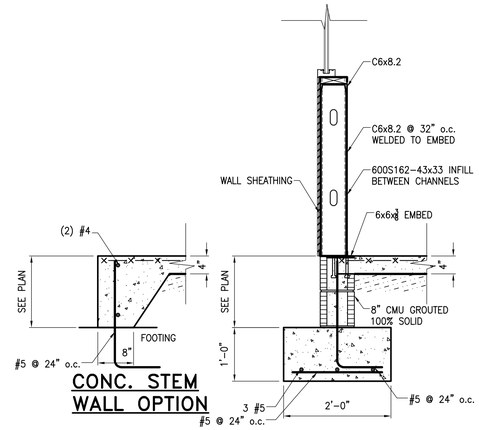
CONC. STEM WALL OPTION

2 SECTION S301
3/4" = 1'-0"



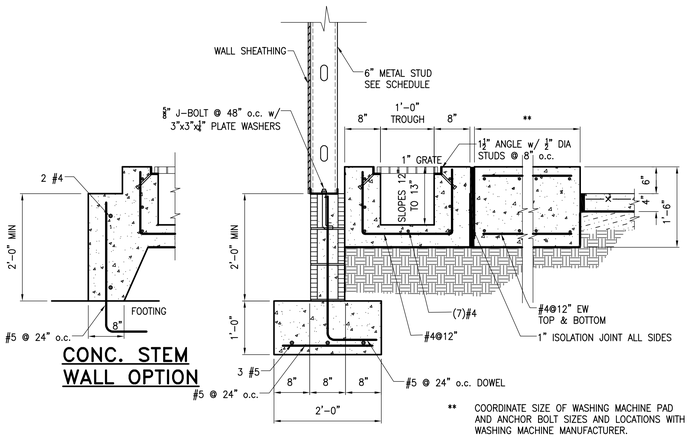
CONC. STEM WALL OPTION

3 SECTION S301
3/4" = 1'-0"



CONC. STEM WALL OPTION

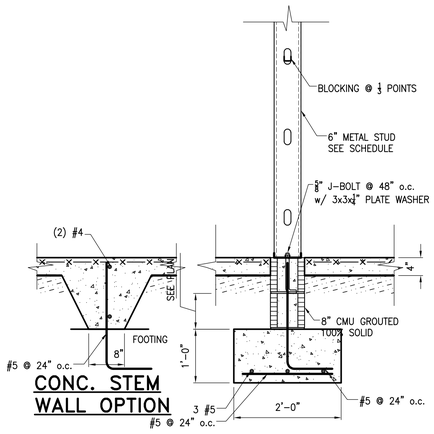
4 SECTION S301
3/4" = 1'-0"



CONC. STEM WALL OPTION

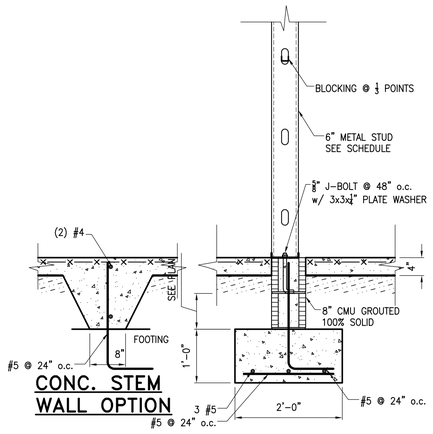
** COORDINATE SIZE OF WASHING MACHINE PAD AND ANCHOR BOLT SIZES AND LOCATIONS WITH WASHING MACHINE MANUFACTURER.

5 SECTION S301
3/4" = 1'-0"



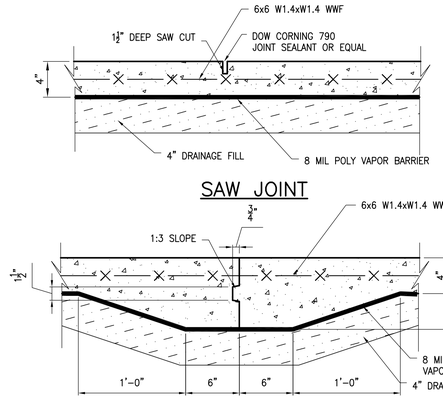
CONC. STEM WALL OPTION

6 SECTION S301
3/4" = 1'-0"



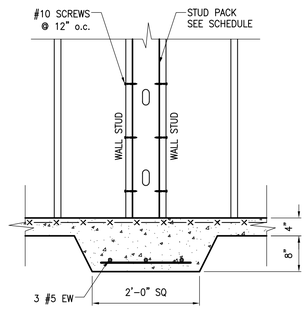
CONC. STEM WALL OPTION

7 SECTION S301
3/4" = 1'-0"



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



8 SECTION S301
3/4" = 1'-0"

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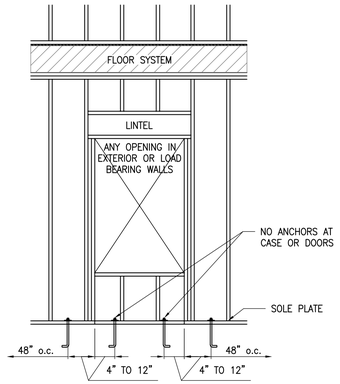
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DATE : 08-29-17

DRAWING TITLE:
FOUNDATION SECTIONS

SCALE: AS SHOWN
PROJECT NO: 037811
DATE: 08-29-17
DRAWN BY: HVS
CHECKED BY: WOW

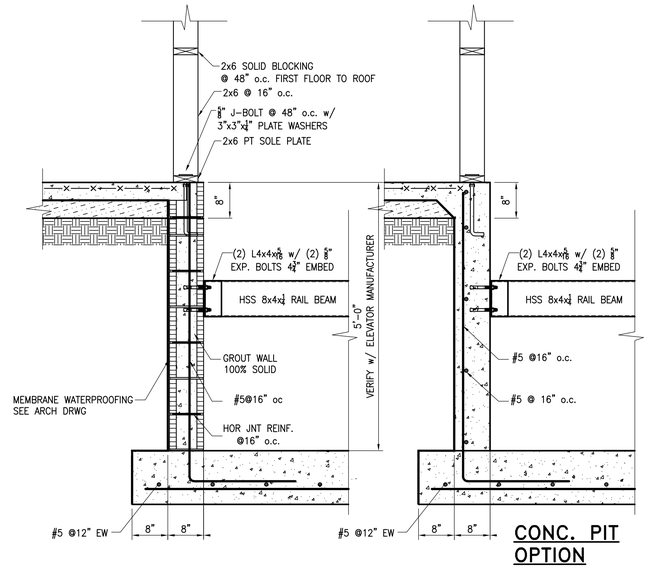
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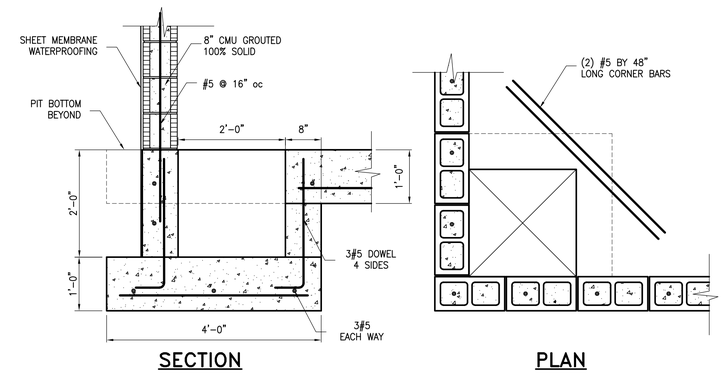


ANCHOR BOLTS AT OPENINGS

3/8"=1'-0" IBC 2308.6

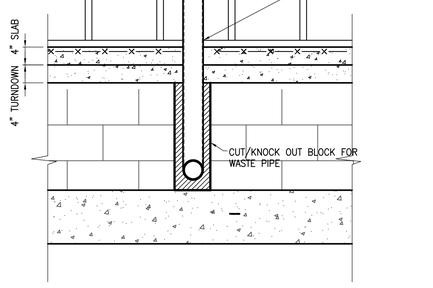


ELEVATOR PIT SECTION



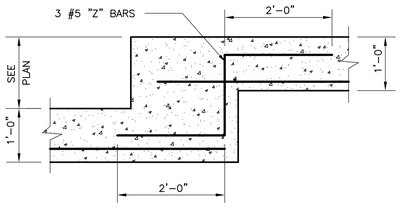
ELEVATOR SUMP PIT DETAIL

3/4" = 1'-0" G.C. TO COORDINATE LOCATION



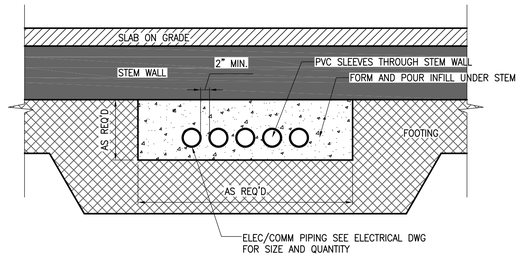
STEM WALL AT PLUMBING

3/4" = 1'-0"



STEP FTG. DETAIL

3/4" = 1'-0"



FOOTING AT ELECTRICAL PIPING

3/4" = 1'-0"

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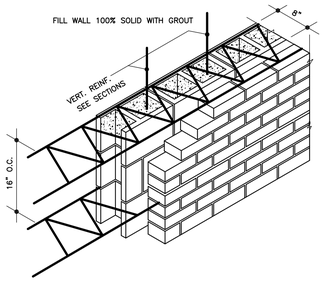
DRAWING TITLE:
FOUNDATION SECTIONS

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

SHEET NO:
S302

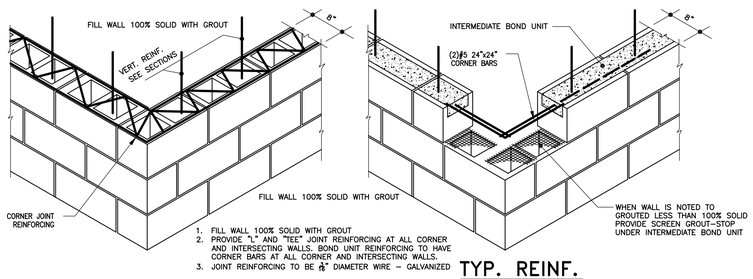
PRELIMINARY

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TYP. JOINT REINF. 8" C.M.U. WALLS

NO SCALE



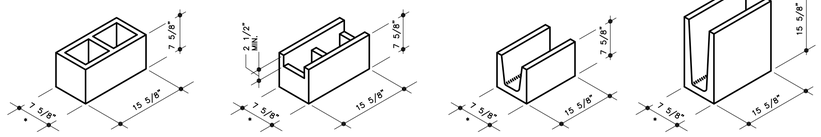
1. FILL WALL 100% SOLID WITH GROUT
2. PROVIDE "L" AND "TEE" JOINT REINFORCING AT ALL CORNER AND INTERSECTING WALLS. BOND UNIT REINFORCING TO HAVE CORNER BARS AT ALL CORNER AND INTERSECTING WALLS.
3. JOINT REINFORCING TO BE $\frac{3}{16}$" DIAMETER WIRE – GALVANIZED

TYP. JOINT REINF. 8" C.M.U. WALLS

NO SCALE

TYP. REINF. (VERT. & HORIZ.) 8" C.M.U. WALLS

NO SCALE

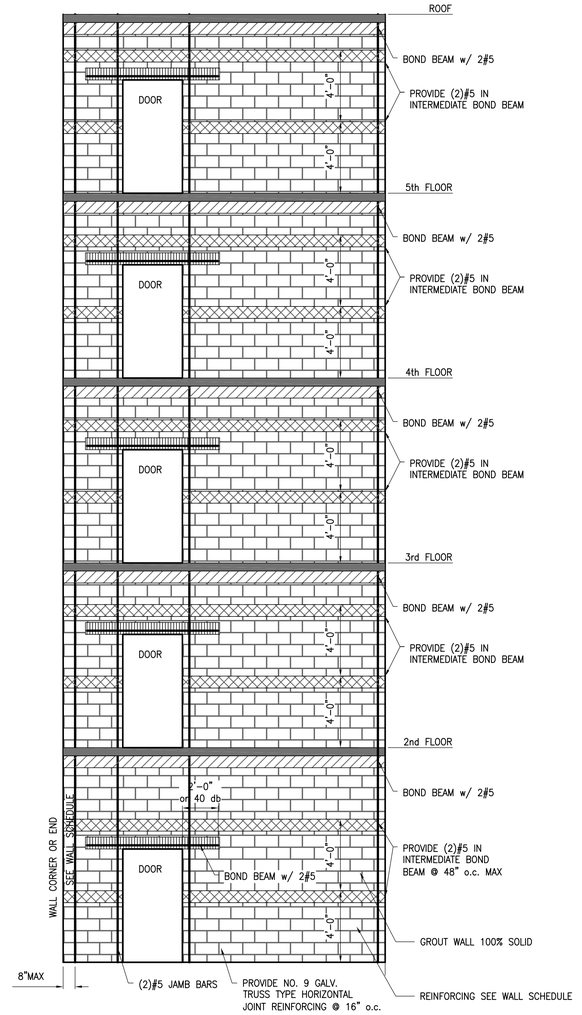


UTILITY UNIT | INTERMEDIATE BOND UNIT | BOND UNIT | BOND UNIT

8" C.M.U.

NO SCALE

- 5 5/8" FOR 6" C.M.U.
- 9 5/8" FOR 10" C.M.U.
- 11 5/8" FOR 12" C.M.U.



CMU SHEAR WALL REINFORCING

SCALE: NOT TO SCALE

WALL REINFORCING SCHEDULE

LEVEL	WALL MATERIAL	STAIR	ELEVATOR	
4TH	8" CMU GROUT 100% SOLID	(1) #5@24" CORNER BARS (2) #7	(1) #5@24" CORNER BARS (2) #7	BOND BEAM (2)#5 AT TOP OF WALL SEE DETAILS SHT S401
3RD	8" CMU GROUT 100% SOLID	(1) #5@24" CORNER BARS (2) #7	(1) #5@24" CORNER BARS (2) #7	BOND BEAM (2)#5 AT TOP OF WALL SEE DETAILS SHT S401
2ND	8" CMU GROUT 100% SOLID	(2) #5@24" CORNER BARS (3) #7	(2) #5@24" CORNER BARS (3) #7	BOND BEAM (2)#5 AT TOP OF WALL SEE DETAILS SHT S401
1ST	8" CMU GROUT 100% SOLID	(2) #5@24" CORNER BARS (3) #7	(2) #5@24" CORNER BARS (3) #7	BOND BEAM (2)#5 AT TOP OF WALL SEE DETAILS SHT S401
		LAP #5 24" LAP #7 42"	CORNER BARS LAYOUT	

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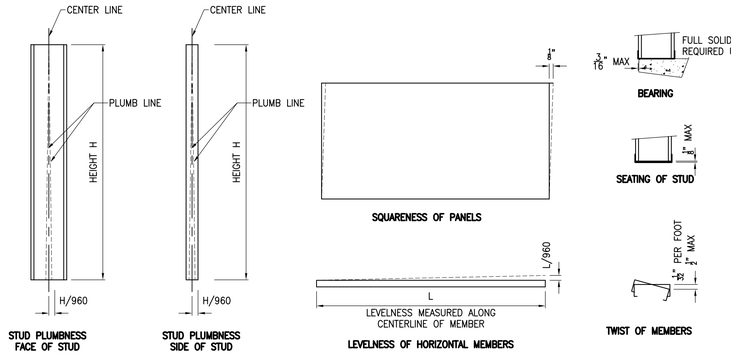
DATE : 08-29-17

DRAWING TITLE:
MASONRY DETAILS

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

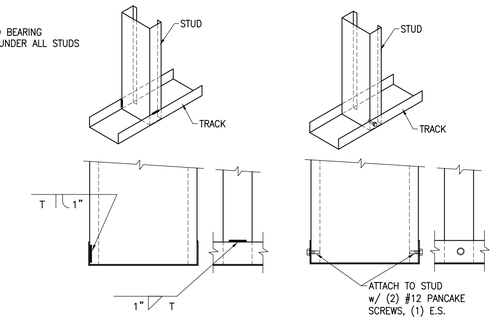
SHEET NO:
S401

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

NTS



OPTION A

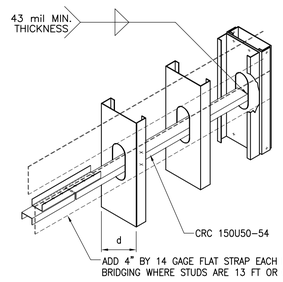
NOTE: @ MULTIPLE STUD ASSEMBLIES CONNECTION APPLIES TO EACH STUD

OPTION B

NOTE: @ MULTIPLE STUD ASSEMBLIES CONNECTION APPLIES TO EACH STUD

TRACK TO STUD

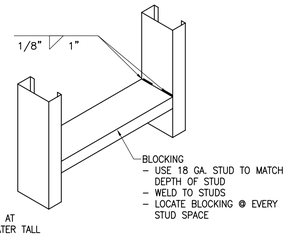
NTS



BRIDGING DETAIL

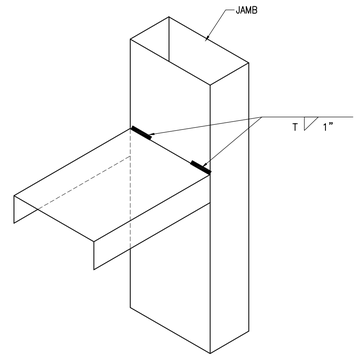
NTS

CRC MAY BE CUT FOR PLUMBING RISER WHERE FACE STRAPPING IS PROVIDED.



SOLID BLOCKING

NTS

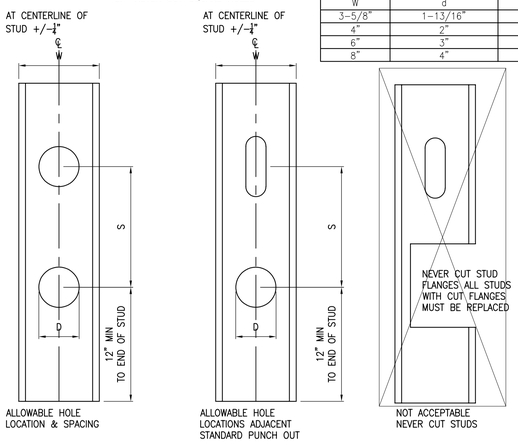


SINGLE TRACK SILL OR HEAD

NTS

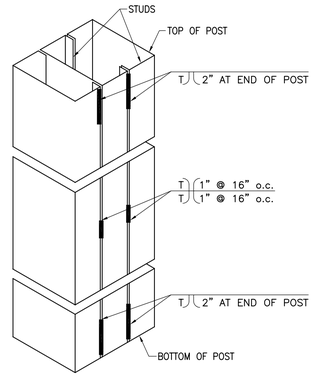
NOTES:
1. ALWAYS DRILL ROUND HOLES
2. NEVER CUT SQUARE HOLES

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"

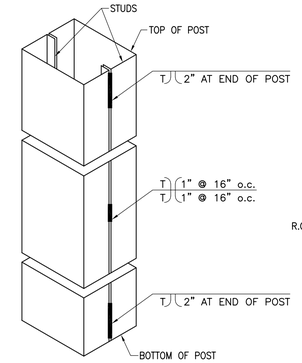


LIMITATION OF CUTTING HOLES IN STUD WEBS

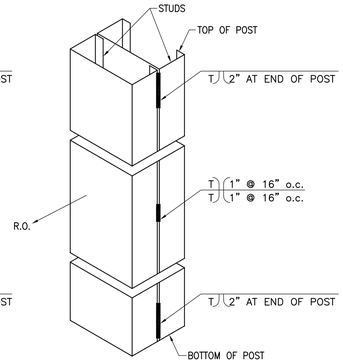
NTS



BOXED POST OR CENTER JAMB



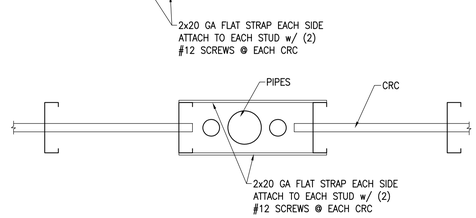
BOXED POST OR CENTER JAMB



TYP. DOUBLE JAMB STUD

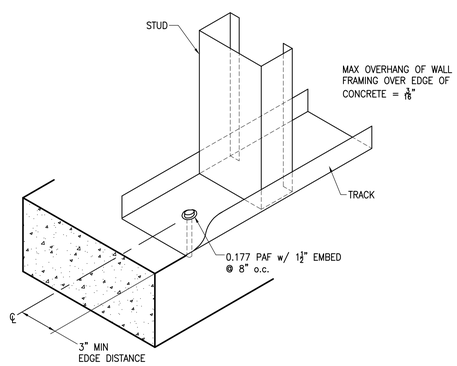
POST/JAMB ASSEMBLY

NTS



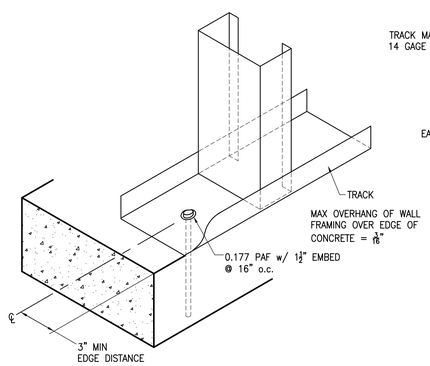
WALL BRIDGING REINFORCEMENT

NTS



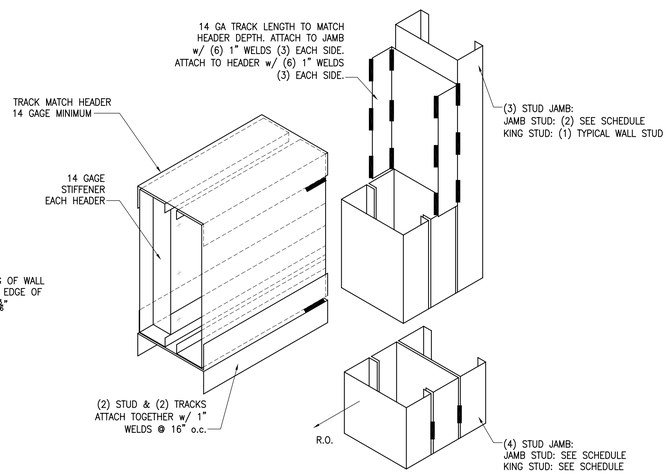
EXTERIOR WALL TRACK TO CONCRETE

NTS



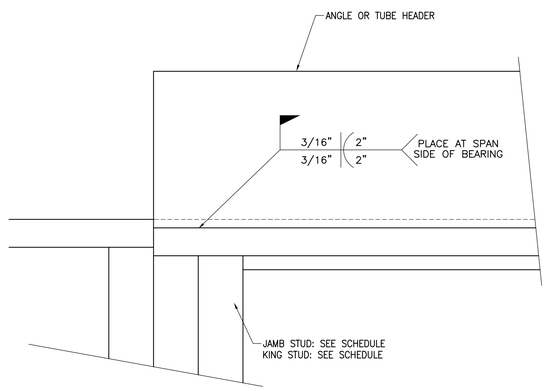
INTERIOR WALL TRACK TO CONCRETE

NTS



BOXED HEADER TO JAMB

NTS



ANGLE/TUBE HEADER @ LIGHT GAUGE POST

NTS

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

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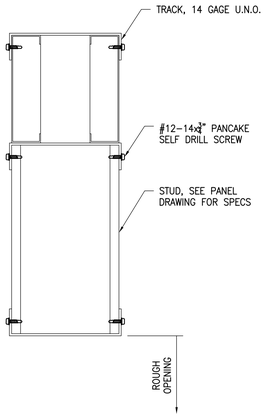
DATE : 08-29-17

DRAWING TITLE:
METAL STUD DETAILS

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

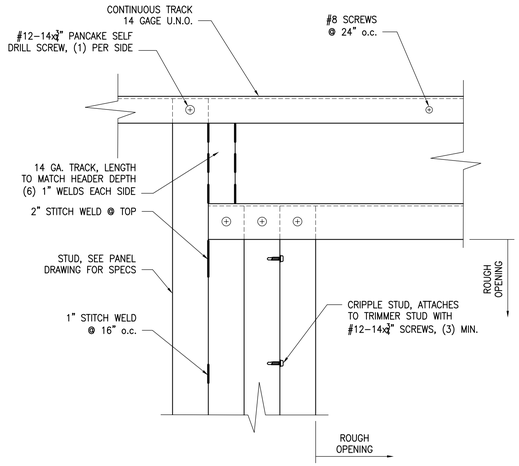
SHEET NO:
S402

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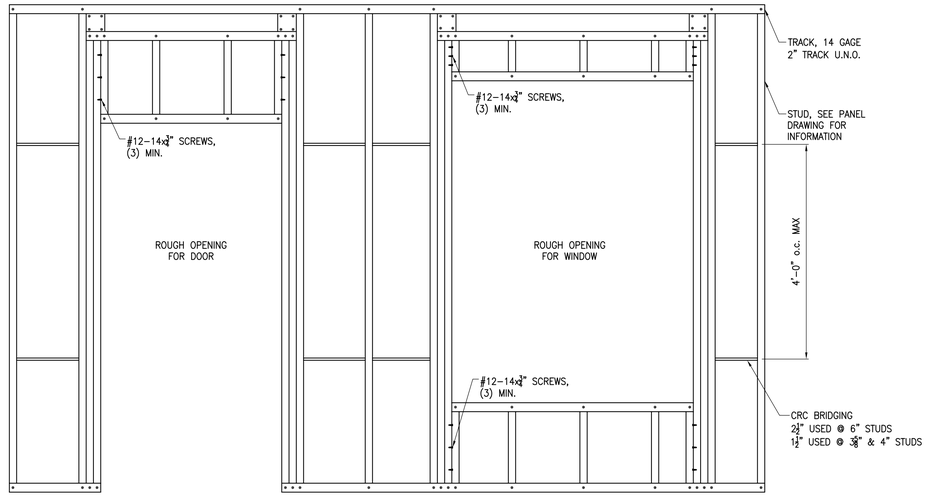
HEADER SECTION

3" = 1'-0"



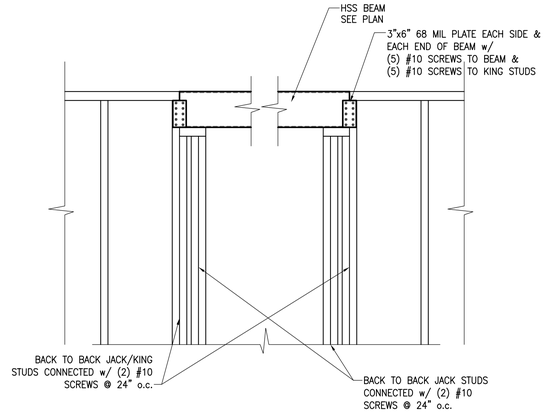
HEADER DETAIL

3" = 1'-0"



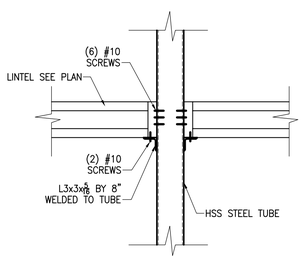
ROUGH OPENING ELEVATION

3/4" = 1'-0"



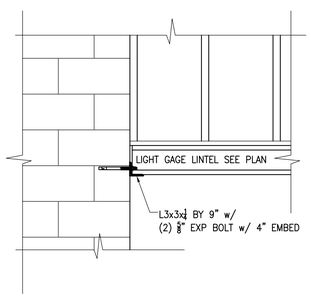
HSS BEAM TO WALL CONNECTION

3/4" = 1'-0"



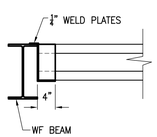
LINTEL TO TUBE

3/4" = 1'-0"



LINTEL TO MASONRY

3/4" = 1'-0"



LINTEL TO WIDE FLANGE

3/4" = 1'-0"

PRELIMINARY

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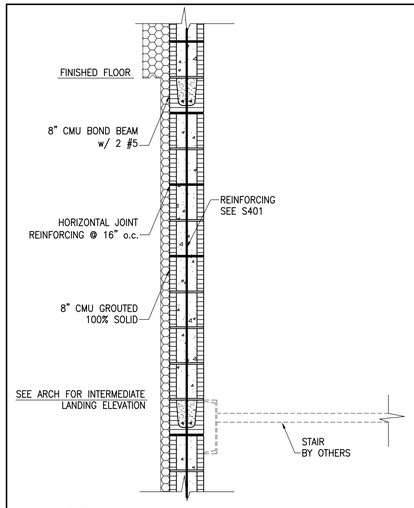
DATE : 08-29-17

DRAWING TITLE:
METAL STUD DETAILS

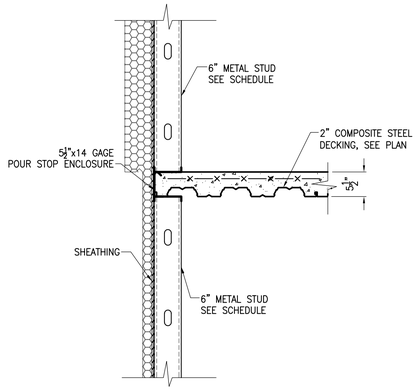
SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCOR

SHEET NO:
S403

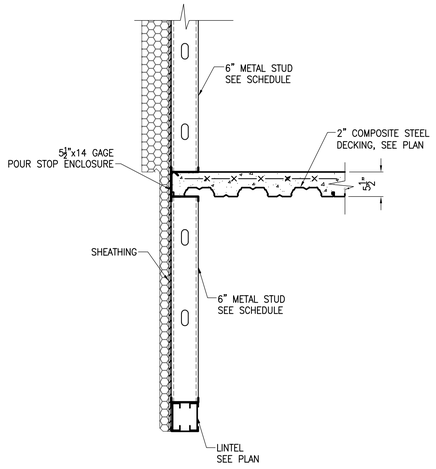
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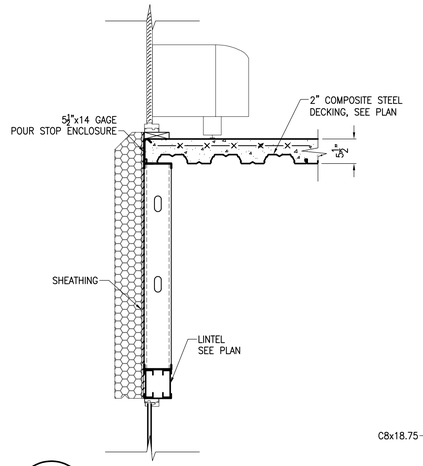
1 S501 SECTION 3/4" = 1'-0"



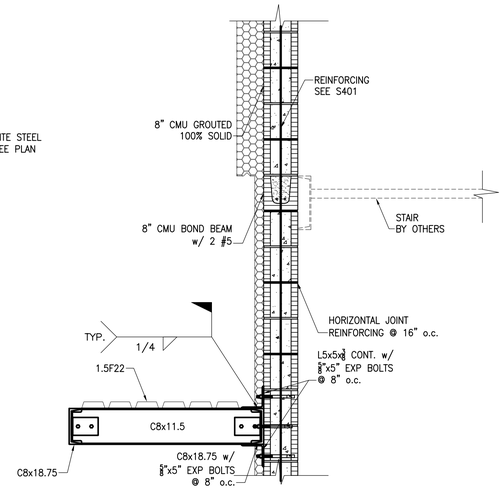
2 S501 SECTION 3/4" = 1'-0"



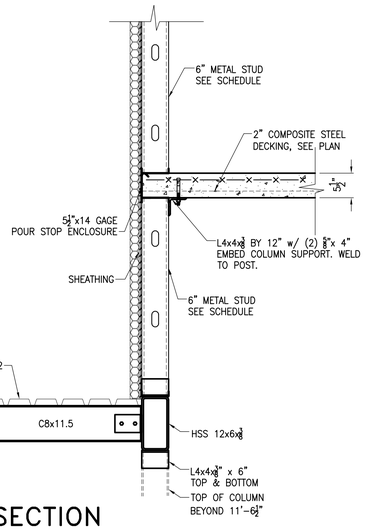
3 S501 SECTION 3/4" = 1'-0"



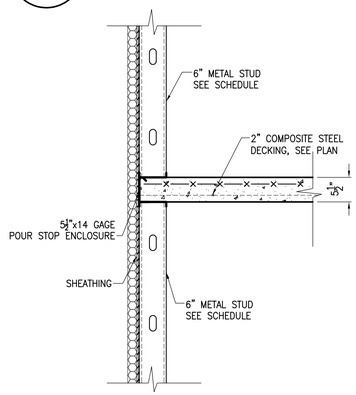
4 S501 SECTION 3/4" = 1'-0"



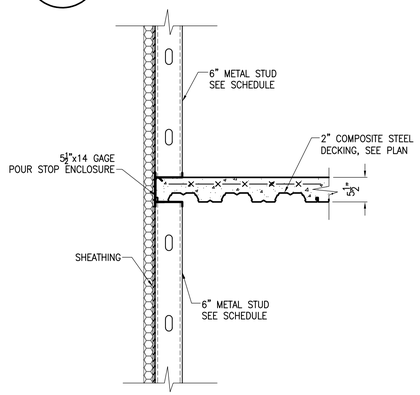
5 S501 SECTION 3/4" = 1'-0"



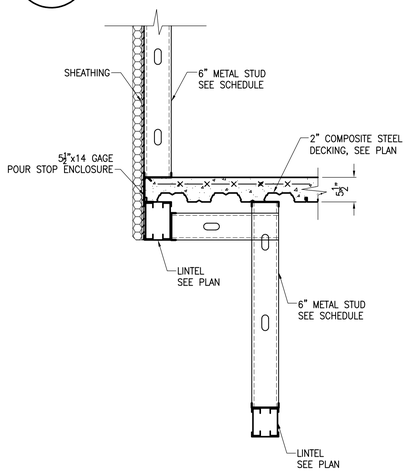
6 S501 SECTION 3/4" = 1'-0"



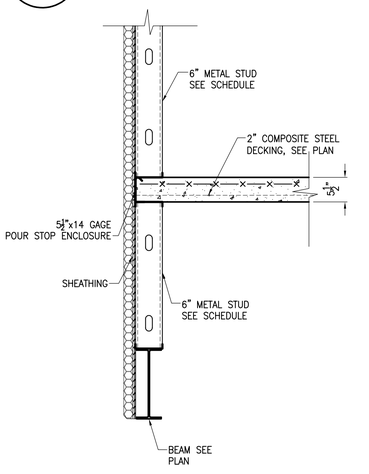
7 S501 SECTION 3/4" = 1'-0"



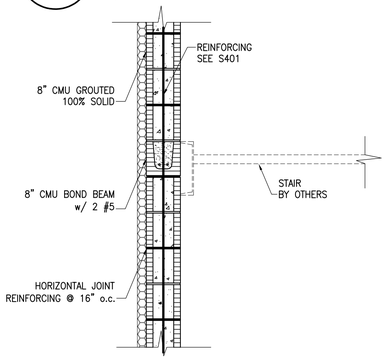
8 S501 SECTION 3/4" = 1'-0"



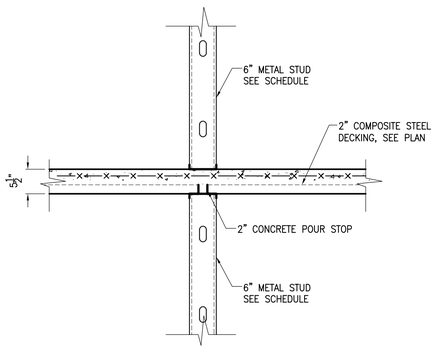
9 S501 SECTION 3/4" = 1'-0"



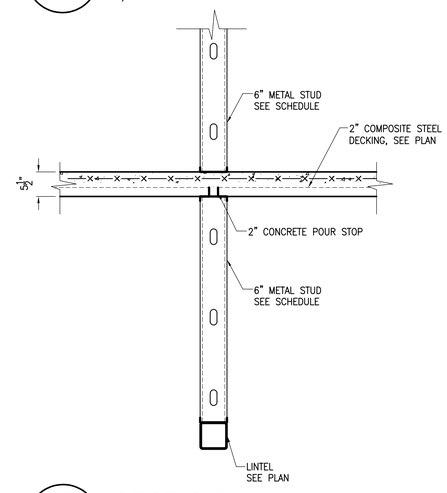
10 S501 SECTION 3/4" = 1'-0"



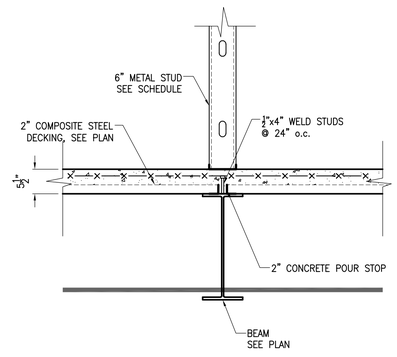
11 S501 SECTION 3/4" = 1'-0"



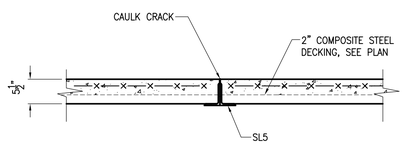
12 S501 SECTION 3/4" = 1'-0"



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



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



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

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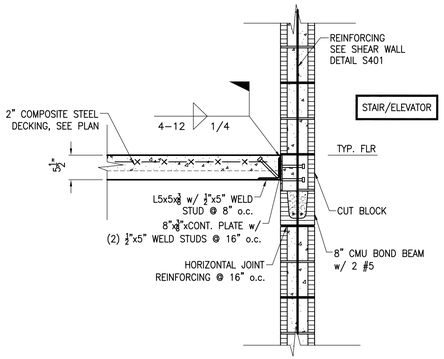
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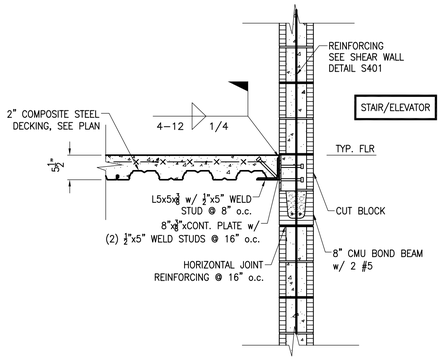
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PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCW

SHEET NO:
S501

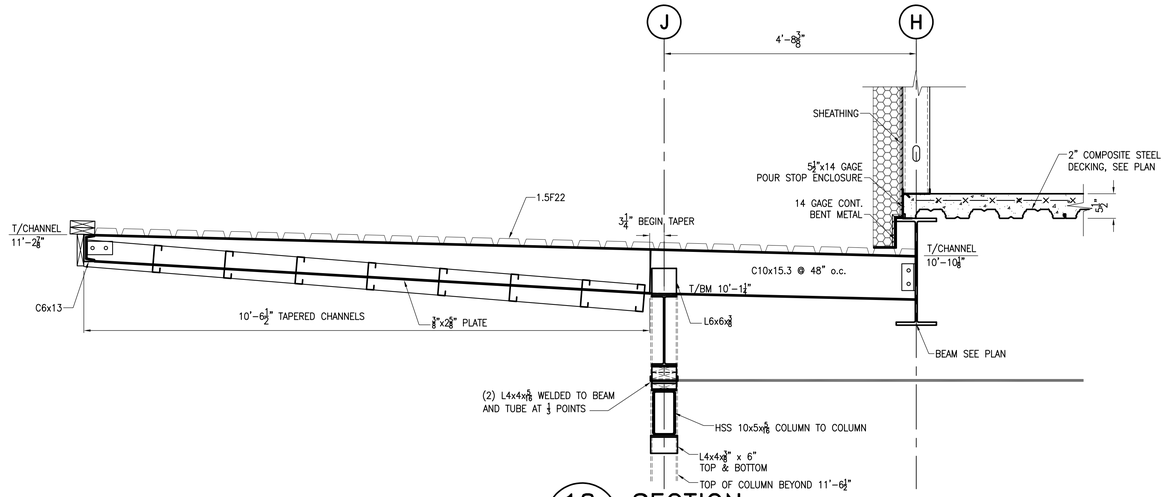
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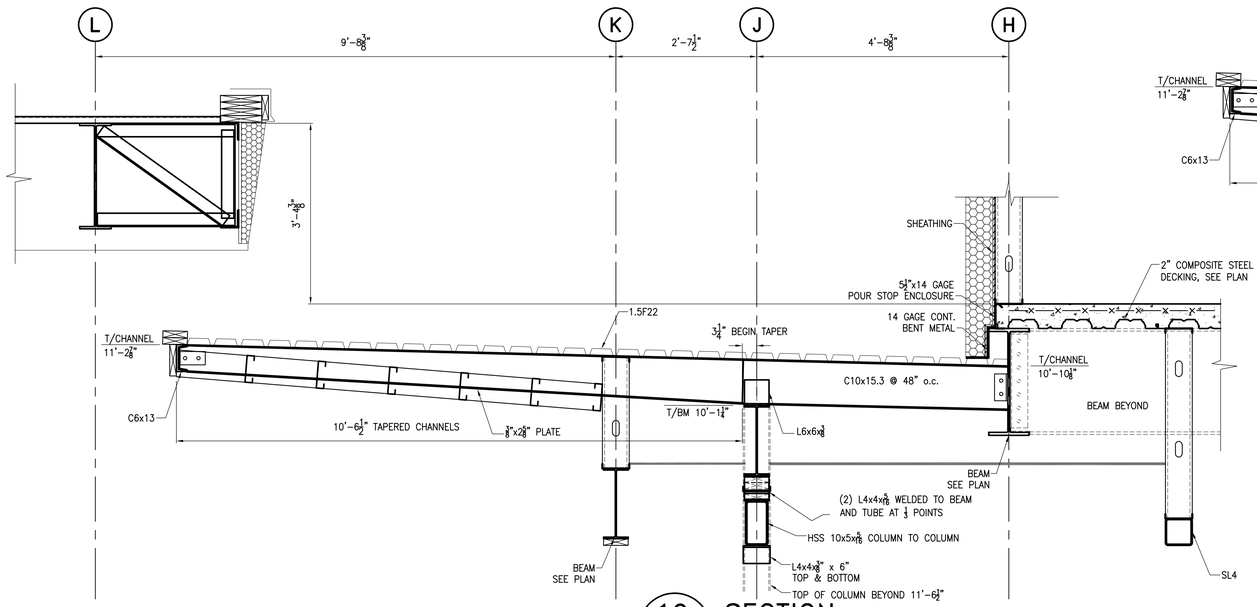
16 S502 SECTION
3/4" = 1'–0"



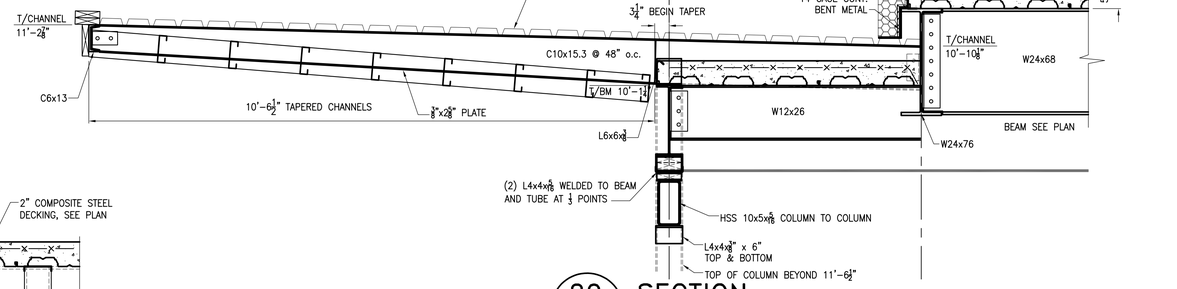
17 S502 SECTION
3/4" = 1'–0"



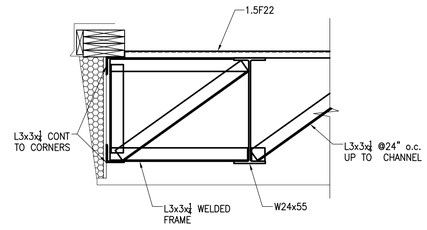
18 S502 SECTION
3/4" = 1'–0"



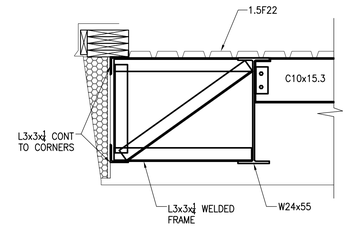
19 S502 SECTION
3/4" = 1'–0"



20 S502 SECTION
3/4" = 1'–0"



21 S502 SECTION
3/4" = 1'–0"



22 S502 SECTION
3/4" = 1'–0"

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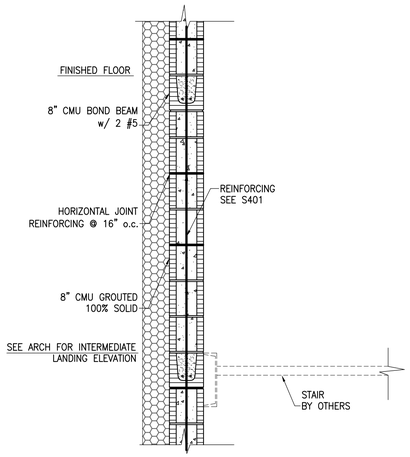
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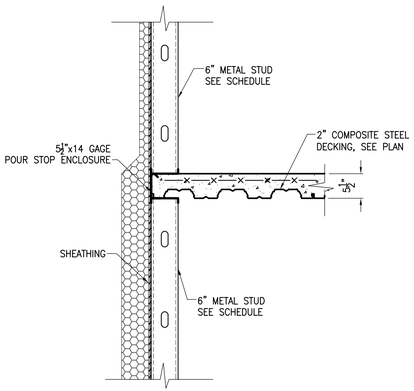
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PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: MVS
CHECKED BY: WCOE

SHEET NO: S502

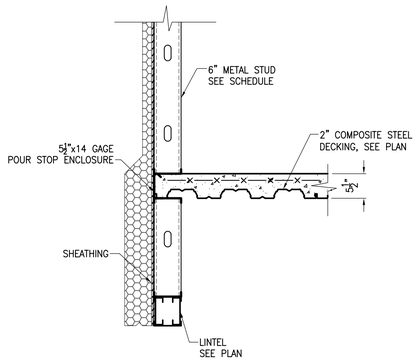
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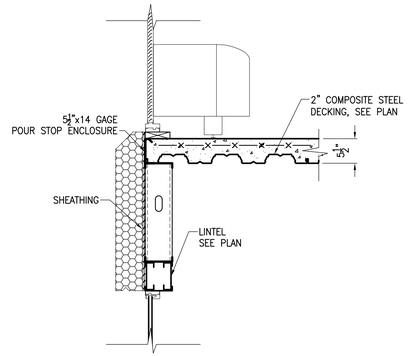
23 S503 SECTION
3/4" = 1'-0"



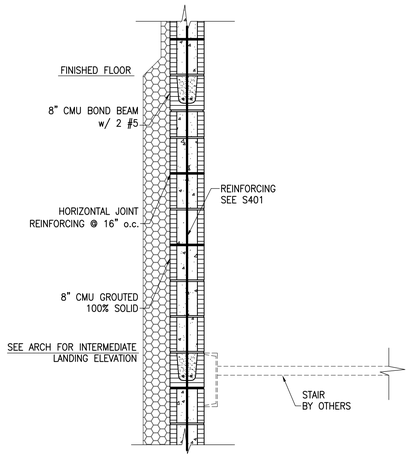
24 S503 SECTION
3/4" = 1'-0"



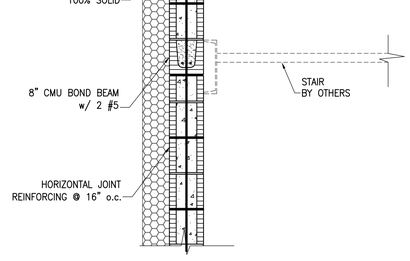
25 S503 SECTION
3/4" = 1'-0"



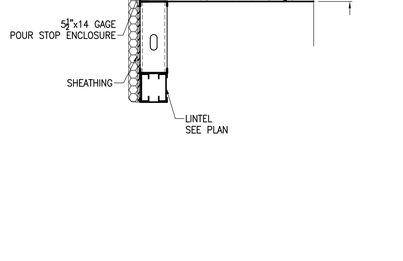
26 S503 SECTION
3/4" = 1'-0"



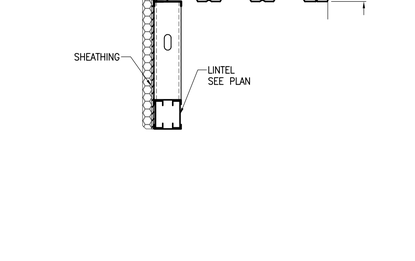
27 S503 SECTION
3/4" = 1'-0"



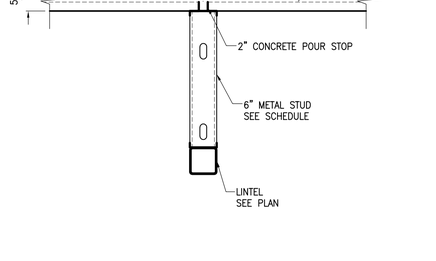
28 S503 SECTION
3/4" = 1'-0"



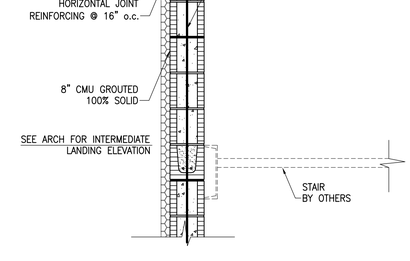
29 S503 SECTION
3/4" = 1'-0"



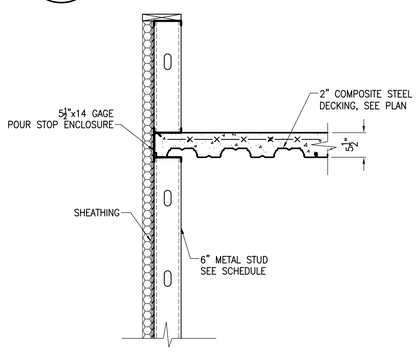
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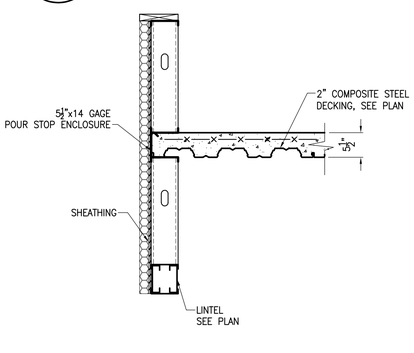
31 S503 SECTION
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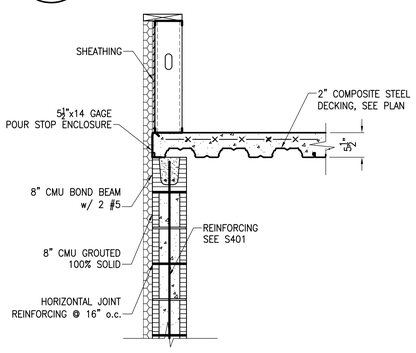
32 S503 SECTION
3/4" = 1'-0"



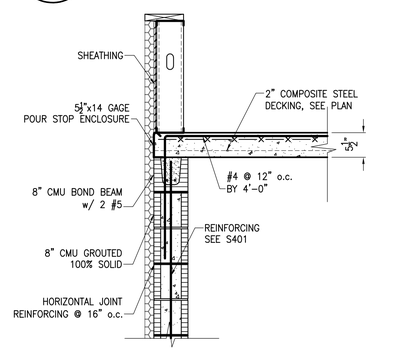
33 S503 SECTION
3/4" = 1'-0"



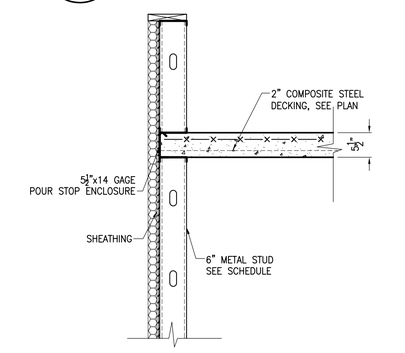
34 S503 SECTION
3/4" = 1'-0"



35 S503 SECTION
3/4" = 1'-0"



36 S503 SECTION
3/4" = 1'-0"



37 S503 SECTION
3/4" = 1'-0"

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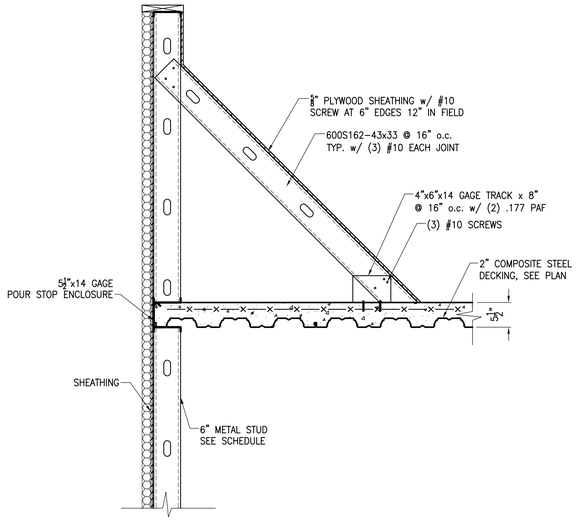
DATE : 08-29-17

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FRAMING SECTIONS

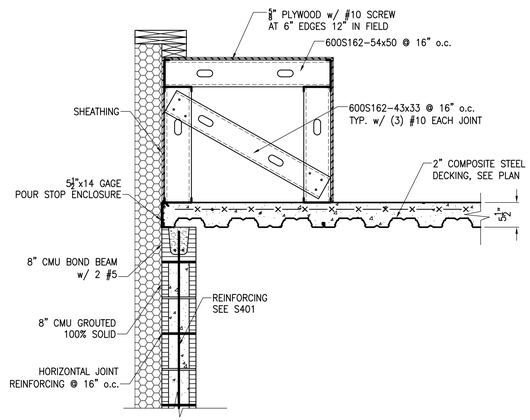
SCALE: AS SHOWN
PROJECT NO: 037801
DATE: 08-29-17
DRAWN BY: HVS
CHECKED BY: WLW

SHEET NO:
S503

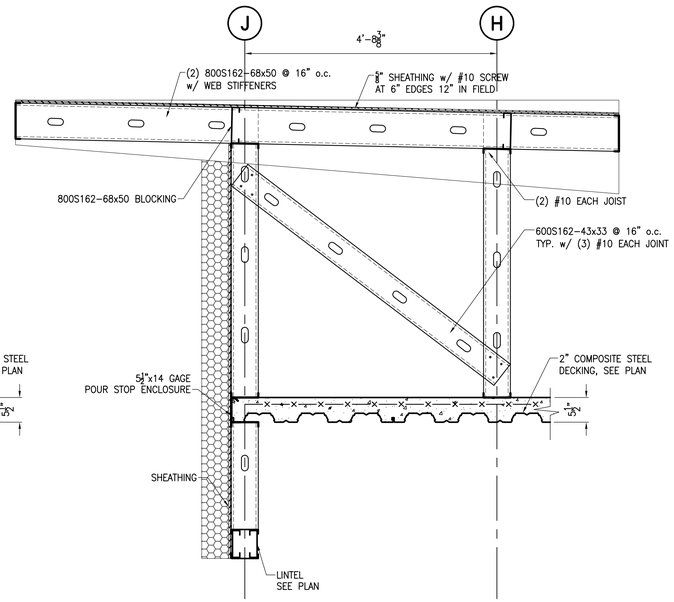
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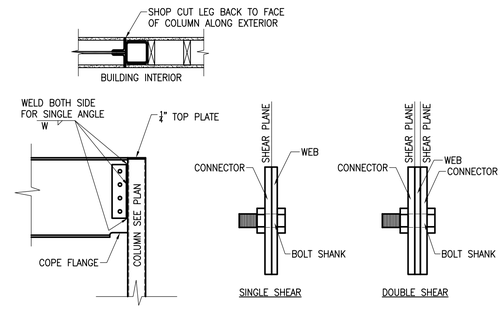
38 S504 **SECTION**
3/4" = 1'-0"



39 S504 **SECTION**
3/4" = 1'-0"



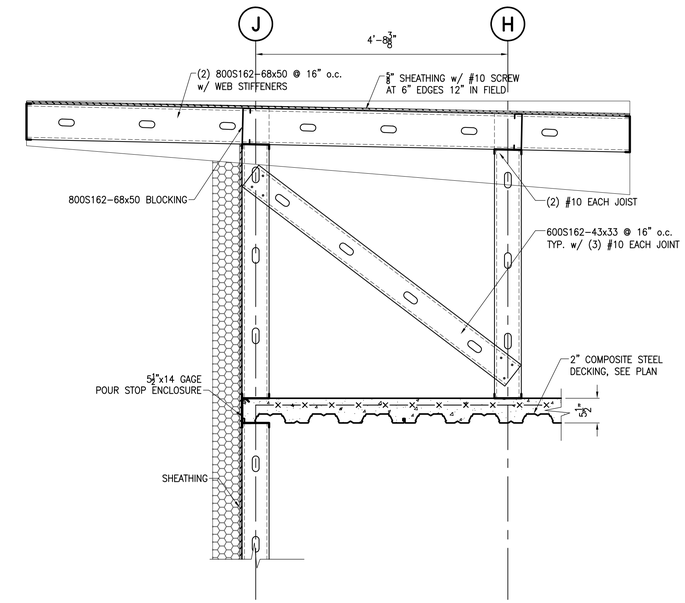
40 S504 **SECTION**
3/4" = 1'-0"



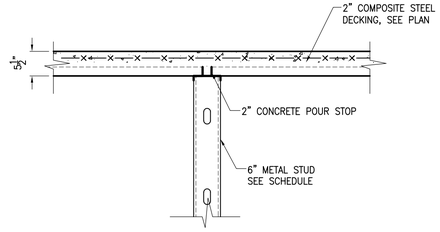
BEAM SIZE	CONNECTOR	BOLTS	W
W10	L3x3x⅜ x 5½"	(2) ¾" A325-X	0.25
W12	L3x3x⅜ x 8½"	(3) ¾" A325-X	0.25
W14	L3x3x⅜ x 8½"	(3) ¾" A325-X	0.25
W16	L3x3x⅜ x 11½"	(4) ¾" A325-X	0.25
W18	(2) L4x3x¼ x 14½"	(5) ¾" A325-X	0.3125
W21	(2) L4x3x¼ x 17½"	(6) ¾" A325-X	0.3125
W24	(2) L4x3x¼ x 20½"	(7) ¾" A325-X	0.3125
W27	(2) L4x3x¼ x 20½"	(7) ¾" A325-X	0.3125
W30	(2) L4x3x¼ x 23½"	(8) ¾" A325-X	0.3125
W33	(2) L4x3x¼ x 26½"	(9) ¾" A325-X	0.3125
W36	(2) L4x3x¼ x 29½"	(10) ¾" A325-X	0.3125

BEAM TO COLUMN CONNECTION

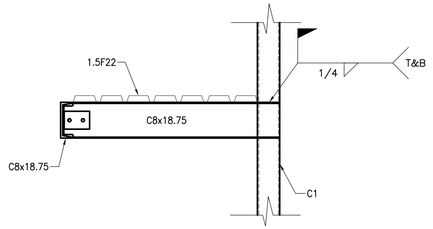
FOR BEAMS ALONG EXTERIOR WALL:
SINGLE SIDED CONNECTIONS PLACE ANGLES ON INTERIOR SIDE OF BEAM
DOUBLE SIDED CONNECTIONS CUT OUTSTANDING LEG OF EXTERIOR ANGLE TO FACE OF COLUMN



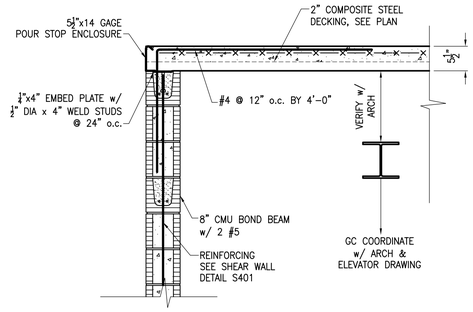
41 S504 **SECTION**
3/4" = 1'-0"



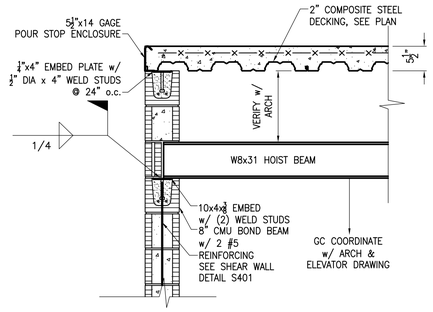
42 S504 **SECTION**
3/4" = 1'-0"



45 S504 **SECTION**
3/4" = 1'-0"



43 S504 **SECTION**
3/4" = 1'-0"



44 S504 **SECTION**
3/4" = 1'-0"

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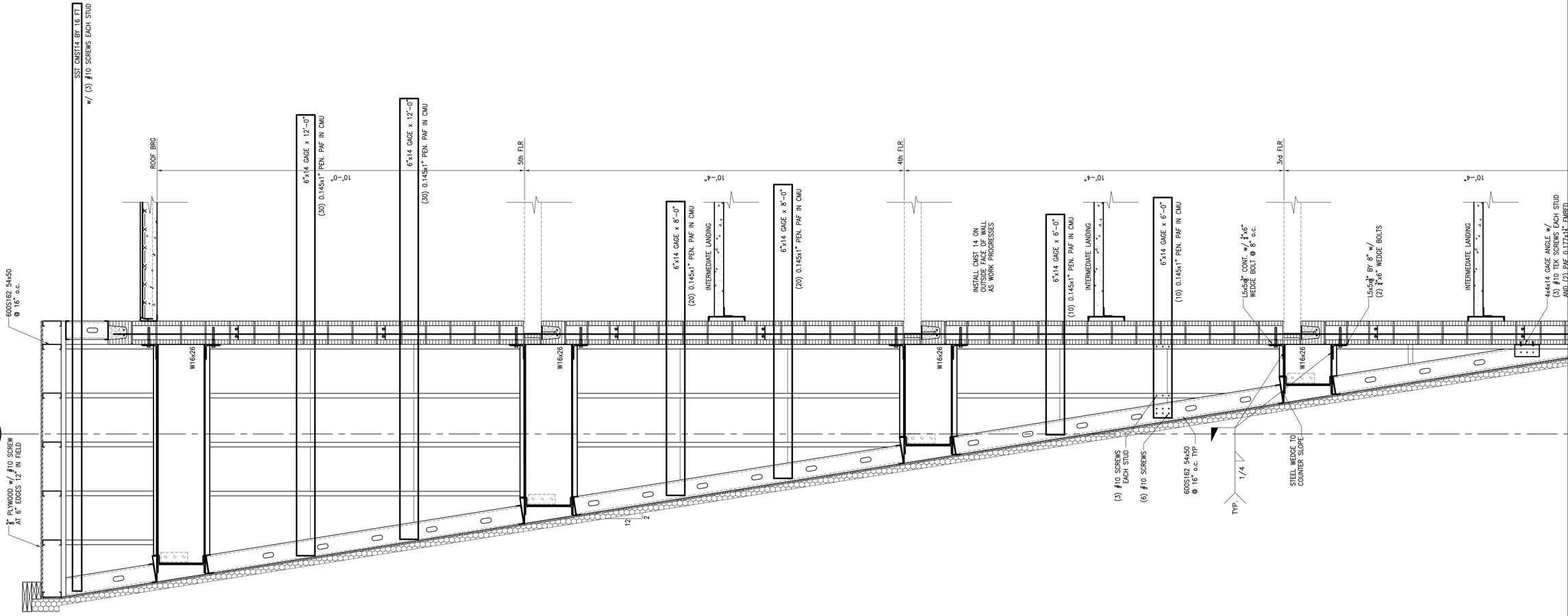
DRAWING TITLE:
FRAMING SECTIONS

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: HVS
CHECKED BY: WCW

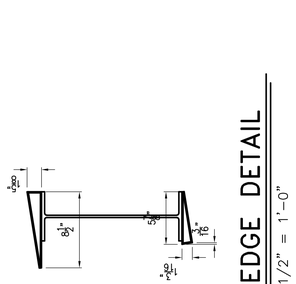
SHEET NO: S504

PRELIMINARY

8/29/2017 2:10:43 PM

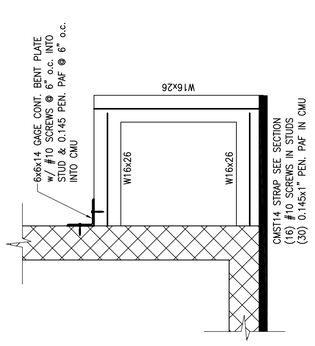


18



WEDGE DETAIL

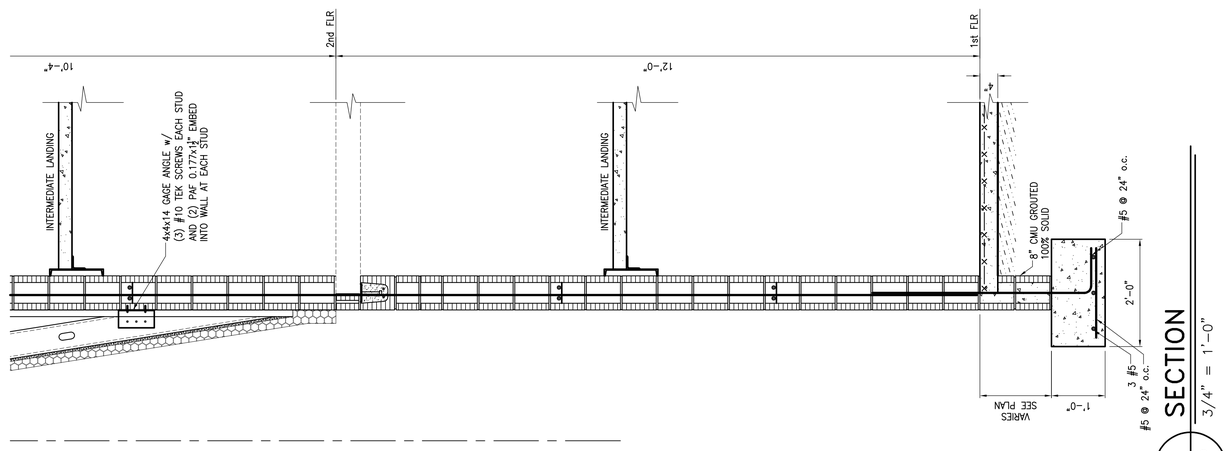
1 1/2" = 1'-0"



47 S505

DETAIL

3/4" = 1'-0"



46 S505

SECTION

3/4" = 1'-0"

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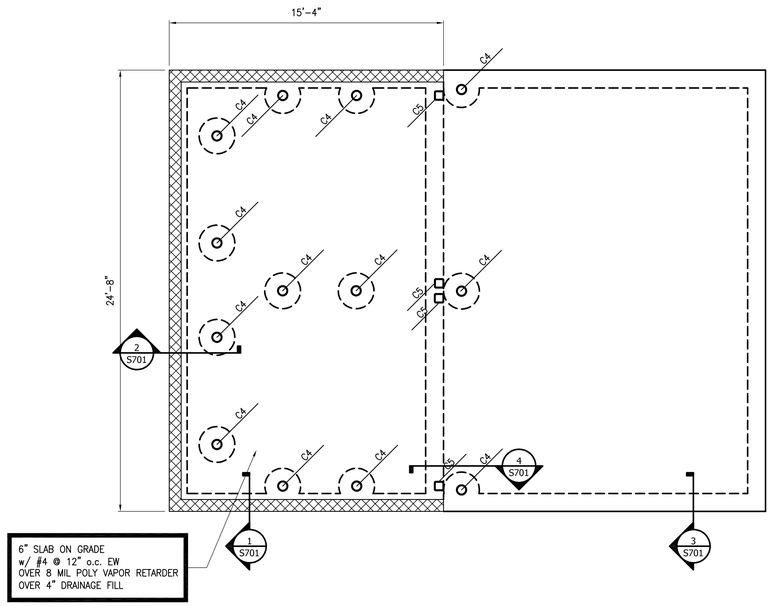
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DATE : 08-29-17

DRAWING TITLE:
FRAMING SECTIONS

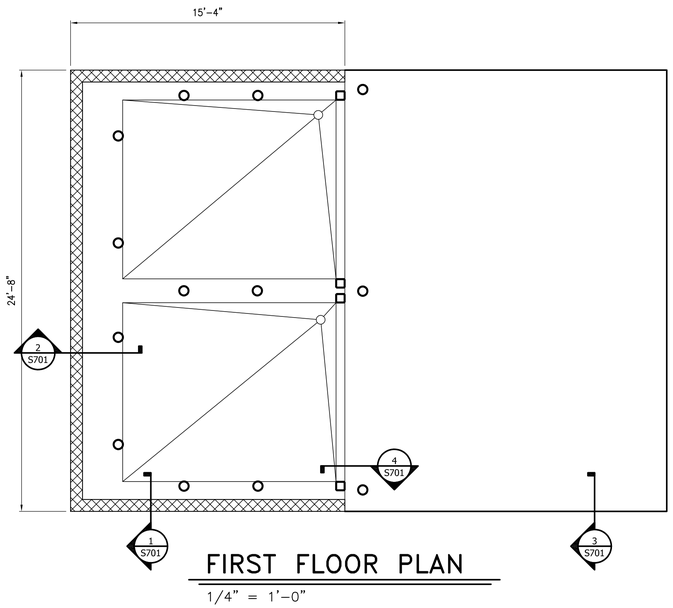
SCALE:	AS SHOWN
PROJECT NO:	037811
DATE:	08-29-17
DRAWN BY:	HVS
CHECKED BY:	WOW
SHEET NO:	S505

8/29/2017 2:10:44 PM



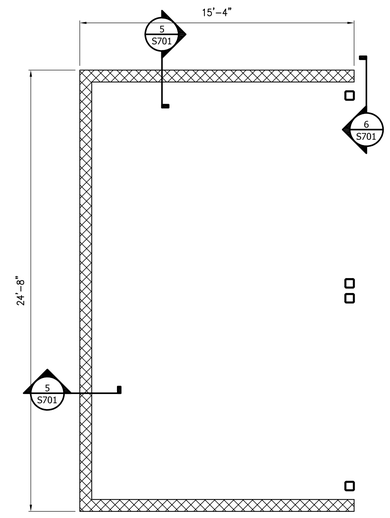
FOUNDATION PLAN

1/4" = 1'-0"



FIRST FLOOR PLAN

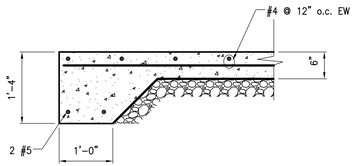
1/4" = 1'-0"



ROOF FRAMING PLAN

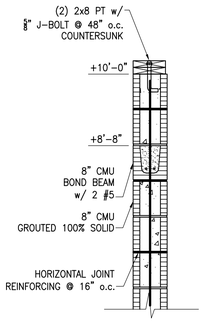
1/4" = 1'-0"

COLUMN SCHEDULE		
MARK	SIZE	BASE PLATE
C4	6" ø STEEL PIPE BOLLARD	----
C5	HSS 6x6x$\frac{5}{16}$	12x9x$\frac{3}{4}$



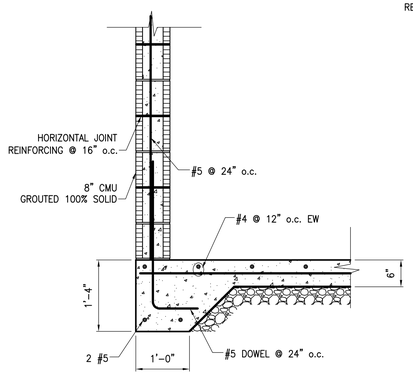
3 SECTION (S701)

3/4" = 1'-0"



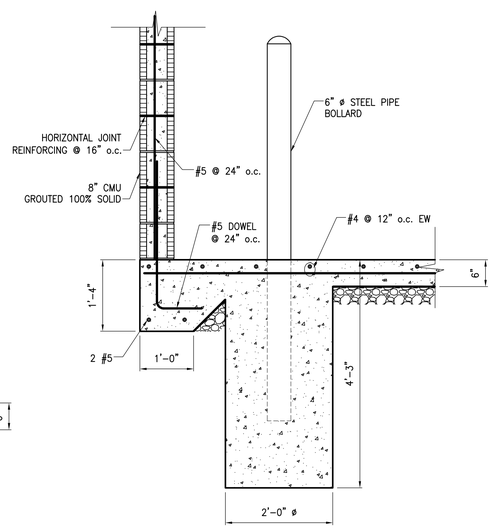
5 SECTION (S701)

3/4" = 1'-0"



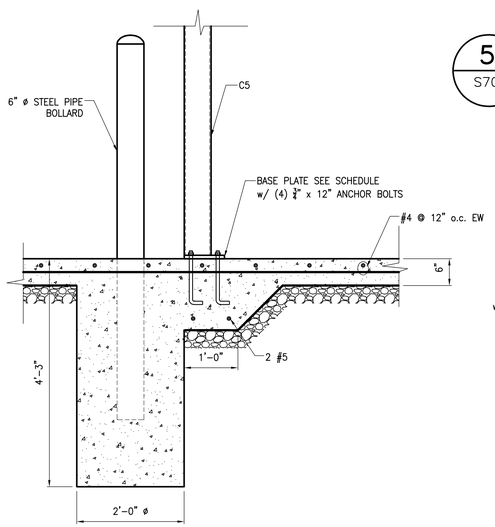
1 SECTION (S701)

3/4" = 1'-0"



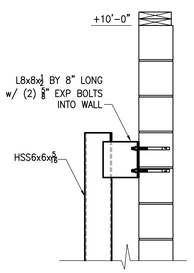
2 SECTION (S701)

3/4" = 1'-0"



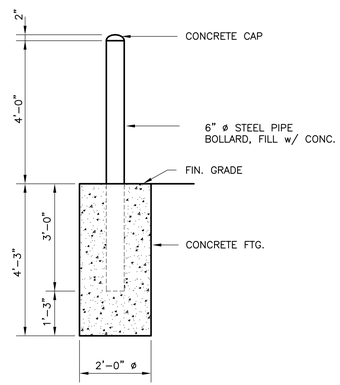
4 SECTION (S701)

3/4" = 1'-0"



6 SECTION (S701)

3/4" = 1'-0"



TYP BOLLARD DETAIL

1/2" = 1'-0"

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DATE : 08-29-17

DRAWING TITLE:
EXTERIOR STORAGE & TRASH CONTAINER PLANS & SECTIONS

SCALE: AS SHOWN
PROJECT NO: 037R01
DATE: 08-29-17
DRAWN BY: HVS
CHECKED BY: WSW
SHEET NO: S701

8/29/2017 2:10:46 PM

MINI-SPLIT UNIT

GENERAL DATA					COOLING	HEATING	ELECTRICAL			GENERAL DATA					ELECTRICAL			AMBIENT ENTERING AIR (F)
SYMBOL	MITSUBISHI MODEL	ROOM SERVING	DIMENSIONS (LxWxH)	FAN CFM	TOTAL (MBH)	TOTAL (MBH)	VOLTAGE (V)	MCA	MOCP	SYMBOL	MITSUBISHI MODEL	LOCATION	DIMENSIONS (LxWxH)	EFFICIENCY SEER	VOLTAGE (V)	MCA	MOCP	
SSI-1	PEA-A18AA4	SERVER	47"x8"x28"	529	18	N/A	208/1	2	15	SSO-1	PUY-A18NHA4	OUTSIDE	32"x12"x24"	14.3	208/1	13	20	95
SSI-2	PEA-A18AA4	SERVER	47"x8"x28"	529	18	N/A	208/1	2	15	SSO-2	PUY-A18NHA4	OUTSIDE	32"x12"x24"	14.3	208/1	13	20	95
SSI-3	PEA-A18AA4	ELEV EQ.	47"x8"x28"	529	18	N/A	208/1	2	15	SSO-3	PUY-A18NHA4	OUTSIDE	32"x12"x24"	14.3	208/1	13	20	95
1) SHALL COMPLY W/ THE LOCAL 2015 ENERGY CODE										NOTES: PROVIDE CONDENSATE PUMP FOR INDOOR UNIT. LOW AMBIENT CONTROLS, LONG LINE-SETS ARE REQUIRED.								

SPLIT SYSTEM HEAT PUMP SCHEDULE

TAG	TRANE AIR HANDLER MODEL NO.	NOMINAL TONS	LOCATION	TOTAL CFM	OA CFM	MAX. FAN HP	ESP	MBH TOT. COOL	MBH SEN. COOL	MIN. SEER	HEAT HEAT PUMP	HEAT KW	VOLTS /PHASE	MCA	MOCP
AH-1	TEM4A0C60S51	5.0	SEE PLAN	2000	400	3/4	0.40"	57.3	41.2	14.0	56.9	9.6	208/1ø	51.0	60
AH-2	TEM4A0C48S41	4.0	SEE PLAN	1600	200	3/4	0.40"	47.1	34.8	14.0	46.8	9.6	208/1ø	51.0	60
AH-3	TEM4A0B18S21	1.5	SEE PLAN	600	–	1/4	0.40"	17.7	13.0	14.0	17.0	4.8	208/1ø	23.0	25
AH-4	TEM4A0B24S21	2.0	SEE PLAN	800	–	1/4	0.40"	23.6	17.7	14.0	22.3	7.7	208/1ø	36.0	40
AH-5	TEM4A0B18S21	1.5	SEE PLAN	600	50	1/4	0.40"	17.7	13.0	14.0	17.0	4.8	208/1ø	23.0	25

TAG	TRANE HEAT PUMP MODEL NO.	VOLTS /PHASE	MCA	MOCP	NOTES
HP-1	4TWR4060G1	208/1ø	32.0	50	1 THRU 9
HP-2	4TWR4048G1	208/1ø	26.0	45	1 THRU 9
HP-3	4TWR4018G1	208/1ø	12.0	20	1 THRU 8
HP-4	4TWR4024G1	208/1ø	14.0	25	1 THRU 8
HP-5	4TWR4018G1	208/1ø	12.0	20	1 THRU 8

NOTE:

1. 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.
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 SINGLE POINT ELECTRICAL CONNECTION
4. PROVIDE HONEYWELL "VISION-PRO 8000" THERMOSTAT/HUMIDISTAT
5. PROVIDE NEW FILTERS IN UNIT WHEN BUILDING IS TURNED OVER TO OWNER/TENANT.
6. 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.
7. HEAT PUMP TO BE INSTALLED LEVEL ON MANUFACTURERS PREFORMED PAD.
8. PROVIDE AIR HANDLERS W/ FOIL-FACED FIBERGLASS INSULATION OR CLOSED-CELL ELASTOMERIC INSULATION.
9. WIRE SUPPLY FAN TO RUN CONTINUOUSLY.

FAN SCHEDULE

SYMBOL	# OF FANS	TYPE	CFM	APPROX. S.P.	DRIVE	RPM	ELECTRICAL DATA			MANUFACTURER	CONTROL	ACCESSORIES
							WATTS	H.P.	VOLTAGE	GREENHECK		
EF-1	84	EXHAUST	50	0.25	DIRECT	900	54	–	120V/1ø	SP-B80	A	1 2 6 10 13
EF-2	5	EXHAUST	100	0.3	DIRECT	718	128	–	120V/1ø	SP-B150	C	1 2 6 8 10 13
EF-3	4	EXHAUST	100	0.3	DIRECT	718	128	–	120V/1ø	SP-B150	E	1 2 6 8 10 13
EF-4	2	EXHAUST	100	0.3	DIRECT	718	128		120V/1ø	SP-B150	D	1 2 6 8 10 13
EF-5	5	EXHAUST	200	0.35	DIRECT	892	52	–	120V/1ø	SP-A200	E	1 2 6 8 10 13
EF-6	1	EXHAUST	140	0.3	DIRECT	1028	128	–	120V/1ø	SP-B150	E	1 2 6 8 10 13
EF-7	2	EXHAUST	175	0.3	DIRECT	1100	172	–	120V/1ø	SP-B200	D	1 2 6 8 10 13
EF-8	1	EXHAUST	150	0.3	DIRECT	1040	128	–	120V/1ø	SP-B150	E	1 2 6 8 10 13
EF-9	1	EXHAUST	200	0.4	DIRECT	1144	–	1/4	120V/1ø	SFD-6-A	E	1 2 3 10 11

ACCESSORIES

1: DISCONNECT SWITCH
2: BACKDRAFT DAMPER
3: PREFAB. ROOF CURB
4: BIRDSCREEN
5: ACOUSTICAL LINING
6: HANGING BRACKETS WITH VIBRATION ISOLATION
7: DISCHARGE HOOD
8: WL, WALL LOUVER DISCHARGE
9: MFG ROOF CAP
10: SPEED CONTROLLER
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 WHIRLPOOL LIGHT SWITCH

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.

MAKE-UP AIR UNIT SCHEDULE

Building Pressurization Unit Schedule

			Cooling				Heating				Supply Fan		Electric Data						Weight	
		ESP	Capacity (MBH)		Ent Air		Lvg Air		Capacity (MBH)		Air Temp				Comp	Evap Fan	Cond Fan		Max	
Mark	CFM	(in)	Sensible	Total	DB	WB	DB	WB	Input	Output	Ent	Lvg	HP	FRPM	Voltage	RLA	FLA	FLA	MCA	Fuse	(Lbs)	Standard of Performance
MUA - 1	3100	1.50	96.98	263.16	85.4	80.18	55.36	55.32	270.00	218.70	19.90	72.00	2	1144	208/3	2x30.1	7.5	2 x 7.0	89	110	3100	Aaon RN-020-8-0-BB02-349

Remarks:

1. Factory assembled, piped, wired and tested as a single package
2. Unit shall include a 100% outside air hood with 2 position motorized damper
3. Unit shall include 2 stage cooling, 2 compressor circuits with minimum 6-row interlaced-circuit DX coil (Horizontal split not acceptable)
4. Unit shall include modulating natural gas heating with 304 series stainless steel heat exchanger with a 25 year warranty (parts only)
5. Unit shall include hot gas bypass on all refrigeration circuits (frost-stat compressor cycling not acceptable)
6. Unit shall include MODULATING hot gas reheat coil for dehumidification (2-position or dedicated heat pump circuit not acceptable)
7. Unit shall include stainless steel drain pan
8. Unit shall include manual reset high pressure switches & auto reset low pressure switches
9. Unit shall include ECM condenser fan motors for condenser head pressure control
10. Unit shall include 4" MERV 12 filters and 2" MERV 8 pre-filters
11. Controls: Wattmaster/Orion VCMX controller with ambient dewpoint sensor; electronic sequencing of compressors and heating and modulating hot gas re-heating.
    The intention of this unit is to provide continuous dehumidification of outside air while also providing temperature control to the space it serves
    If this causes overcooling in the space, the modulating hot gas reheat valve shall open to satisfy the conditioned space requirement
    Field mounted controls shall include a duct mounted leaving air stat and a wall mounted stat (see plans for location)
    All unit mounted controls for complete operation shall be installed by the equipment manufacturer
12. 2" foam injected insulated (minimum R13 value) doublewall cabinet construction
13. Unit shall include integral non-fused disconnect
14. R410a
15. Duct mounted smoke detector provided by electrical, installed by mechanical
16. Unit shall include a factory assembled and insulated roof curb/plenum with vibration isolation rails. Curb height to be determined.
17. Unit shall be AHRI Listed and Certified (Coil only certification is not acceptable)
18. Compressors shall have 5 year warranty (parts only)
19. Contact Gorham/Schaffler, Inc. for information phone: 1-901-345-6100

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	0-120	6"ø	48"x4"	SLOT	(1)1" SLOT	YES	STEEL	SUPPLY	PRICE AS210	1-5
F	125-250	8"ø	48"x4"	SLOT	(1)1½" SLOT	YES	STEEL	SUPPLY	PRICE AS215	1-5
G	0-175	8"ø	24"x24"	PERFORATED	–	NO	STEEL	RET/EXH	PRICE PDDR	1-4
H	275-390	12"ø	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
J	395-500	12"x12"	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
K	505-885	16"x16"	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
L	890-1,850	22"x22"	24"x24"	PERFORATED	–	NO	STEEL	RETURN	PRICE PDDR	1-4
M	250	10"x8"	12"x10"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE 540	1-4
N	300	12"x8"	14"x10"	LOUVERED	–	YES	STEEL	SUPPLY	PRICE 540	1-4
P	175	8"x8"	10"x10"	LOUVERED	–	YES	STEEL	EXHAUST	PRICE 535	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.

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	BREAKFAST	2000	400	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

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.

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REVISIONS		
No.	Date	Description

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical Notes & Schedules

Phase
Design Development

Project No.	16-111
Prepared by	CRM
Checked by	EDB
Date	September 8, 2017

Sheet No. M001

Released for
Review

Tru Hotel

HVAC GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT IN STRICT ACCORDANCE WITH APPLICABLE 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. INTERNALLY LINED INSULATION FOR SUPPLY & OUTSIDE AIR DUCTS SHALL BE CLOSED-CELL ELASTOMERIC. FIBERGLASS DUCT LINER IS NOT PERMITTED. ALL SPIRAL DUCTWORK SHALL BE DOUBLE WALL. IF CONTRACTOR USES INTERNAL INSULATION, SINGLE WALL DUCTWORK MAY BE USED INSTEAD.
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 CONSTRUCTED IN ACCORDANCE WITH SMACNA STANDARDS. 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 REFRIGERANT AND LOW VOLTAGE CONTROL LINES FROM THE CONDENSER TO THE AIR HANDLING UNIT. COORDINATE ROUTING AND INSTALLATION WITH THE GENERAL CONTRACTOR. SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS.
24. ELECTRICAL CONTRACTOR TO PROVIDE ALL HIGH VOLTAGE ELECTRICAL WIRING, CONDUIT, DISCONNECT SWITCHES, FUSES, ECT. TO SPLIT SYSTEM UNITS. ALL FINAL ELECTRICAL CONNECTIONS ARE BY ELECTRICAL CONTRACTOR.
25. OUTSIDE AIR DUCTWORK SHALL BE WRAPPED WITH 1" FIBERGLASS DUCT WRAP WITH VAPOR BARRIER.
26. REFRIGERANT PIPING, NOT SHOWN ON PLANS, SHALL BE SIZED & INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, INSTALLATION INSTRUCTIONS AND LOCAL CODES.
27. MECHANICAL CONTRACTOR SHALL VERIFY LOCATION OF ALL PENETRATIONS FOR RELIEF HOODS, OUTSIDE AIR HOODS, LOUVERS, AND WALL CAPS WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
28. MECHANICAL CONTRACTOR SHALL PAINT ALL RELIEF HOODS, INTAKE HOODS, LOUVERS, AND VENT CAPS. CONFIRM COLOR WITH ARCHITECT & OWNER PRIOR TO INSTALLATION.
29. 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.
30. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD A MINIMUM OF TEN BUSINESS DAYS IN ADVANCE FOR COMPLETION OF FIELD INSPECTION FOR APPENDIX 5 OF THE 2015 IECC, IF REQUIRED.
31. PROVIDE UV PROTECTIVE COATING/COVERING ON ALL ELASTOMERIC PIPE INSULATION WHERE EXPOSED TO SUNLIGHT.
32. ALL HVAC EQUIPMENT SHALL BE SIZED IN ACCORDANCE WITH 2015 IECC SECTION C403.2.2.

PTAC UNITS

UNIT TAG	GE MODEL	FAN CFM	OSA CFM	ESP (WG)	EER	COOLING (MBH)	ELECT. HEAT (KW)	HEATING (MBH)	VOLTAGE (V)	MCA (A)	MOCP (A)	WEIGHTS (LBS)
PTAC-A	AZ65H07DAM	340	50	0.4	12.8	6.9	2.8	6.1	208V/1ø	20	20	140

NOTES:
1) PROVIDE SUB-BASE KIT WITH DISCONNECT SWITCH FOR ALL PTAC'S.

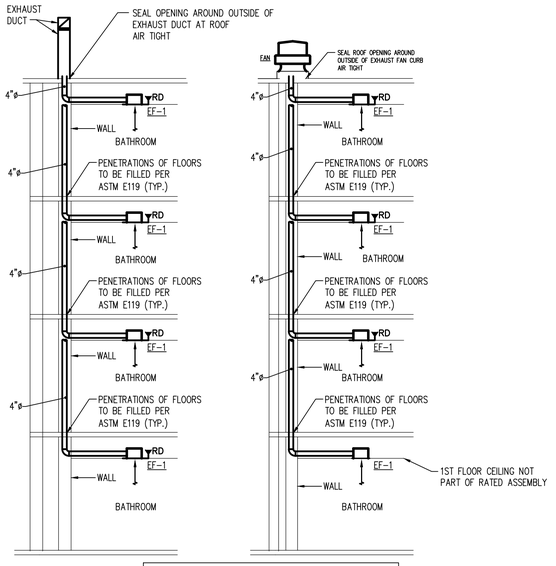
ELECTRIC WALL HEATER SCHEDULE

EWH-1 MARKEL E3322TTD-RP
1 KW; 120V-1ø; 3413 BTUH; 175 CFM; WITH: BUILT-IN DISCONNECT SWITCH AND THERMOSTAT, PENCIL-PROOF LOUVERS, CABINET FOR SURFACE MOUNTING.

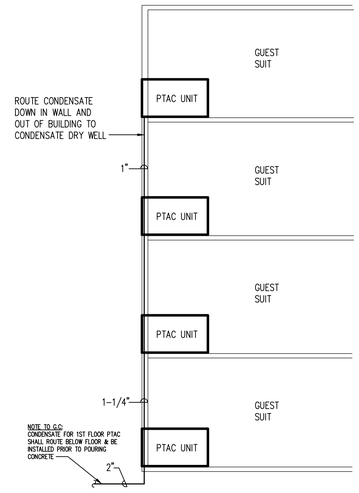
EWH-2 MARKEL F3314TS-RP
2 KW; 208V-1ø; 6826 BTUH; 175 CFM; WITH: BUILT-IN DISCONNECT SWITCH AND THERMOSTAT, PENCIL-PROOF LOUVERS, CABINET FOR SURFACE MOUNTING.

MECHANICAL LEGEND

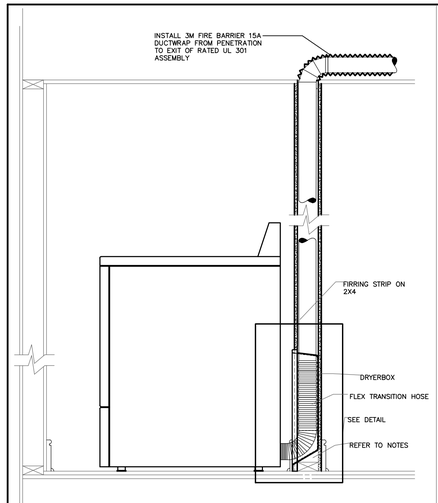
- SUPPLY AIR DIFFUSER
- RETURN AIR GRILLE
- T — WALL MOUNTED THERMOSTAT
- U — ¾" DOOR UNDERCUT
- MANUAL VOLUME DAMPER
- BI-POLAR IONIZATION DEVICE (DUCT MOUNTED)
- TURNING VANES
- FD — FIRE DAMPER
- F/SD — COMBINTATION FIRE/SMOKE DAMPER
- M — MOTOR OPERATED DAMPER
- RD — RADIATION DAMPER
- $ — WALL SWITCH



2 M002 GUESTROOM EXHAUST RISERS
N.T.S.



3 M002 CONDENSATE RISER
N.T.S.



DRYERBOX INSTALLATION

DRYER VENTING: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR RUNNING ALL DUCTWORK FOR THE DRYER EXHAUST SYSTEM. ALL CONCEALED DRYER DUCTING MUST BE RIGID METAL (GALVANIZED OR ALUMINUM) MINIMUM OF 4" IN DIAMETER, SMOOTH 30 GA. CLEAN, UNOBSTRUCTED, FRICTIONLESS DUCTS (NO FLEXIBLE DUCT ALLOWED IN CONCEALED AREAS). SEAL ALL JOINTS WITH FOIL BACKED PRESSURE SENSITIVE DUCT TAPE MEETING THE REQUIREMENTS OF UL 181. DUCT JOINTS SHALL BE INSTALLED SO THAT THE MALE END OF THE DUCT POINTS IN THE DIRECTION OF THE AIRFLOW. DO NOT USE RIVETS OR SCREWS IN THE JOINTS OR ANYWHERE ELSE IN THE DUCT AS THESE WILL ENCOURAGE LINT COLLECTION.

DRYERBOX RECEPTACLE SHALL BE METAL AND BE INSTALLED AS LOW AS POSSIBLE AS TO PERMIT THE PROPER AND SAFE COLLECTION OF THE DRYER TRANSITION HOSE. DRYERBOX SHOULD BE RESTING ON THE BOTTOM PLATE AND BE LOCATED AT OR NEAR THE CENTERLINE OF THE PROPOSED DRYER APPLIANCE. RIGID DUCT SHOULD PENETRATE DRYERBOX PORT 2 INCHES TO PROVIDE FOR FUTURE CONNECTION AND STORAGE OF TRANSITION HOSE. BASEBOARD SHALL BE "BUTTED" UP TO THE FIXED EXTENSION RIM AND SLIGHTLY BACK-CUT. DRYERBOX SHOULD BE CAULKED AND THEN PAINTED WITH THE TRIM PAINT. FOR USAGE IN A ONE-HOUR WALL ASSEMBLY, UL REQUIRES THAT BATT INSULATION BE STUFFED AROUND THE DRYERBOX AND IN THE ENTIRE WALL CAVITY CELL.

LENGTH OF CONCEALED RIGID METAL DUCTING SHALL NOT EXCEED 25 FEET. DEDUCT 5 FEET FROM THE ALLOWABLE LENGTH FOR EVERY 3.5" RADIUS 90 DEGREE ELBOW AND TWO AND A HALF FEET FOR EVERY 45 DEGREE FITTING. DRYER VENTING SHALL BE INDEPENDENT OF ANY OTHER SYSTEMS (CHIMNEYS OR EXHAUST VENTS). TERMINATION OF DRYER VENTING MUST BE TO THE EXTERIOR WITH A PROPER HOOD OR ROOF JACK EQUIPPED WITH A BACK-DRAFT DAMPER. SMALL ORIFICE METAL SCREENING SHOULD NOT BE PART OF THE HOOD OR ROOF JACK AS THIS WILL ACCELERATE LINT ACCUMULATION AND BLOCKAGE. THE HOOD OPENING SHOULD POINT DOWN AND EXHIBIT 12 INCHES OF CLEARANCE BETWEEN THE BOTTOM OF THE HOOD AND THE GROUND OR OTHER OBSTRUCTION. VERIFY MANUFACTURER'S RECOMMENDATIONS FOR ANY OTHER FACTORS.

DRYER VENTING DETAIL

1

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No.	Date	Description

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical Details

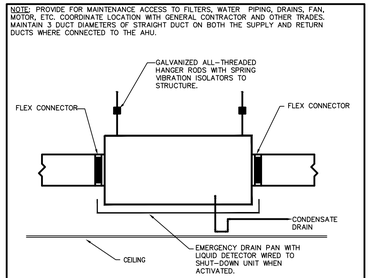
Phase
Design Development

Project No. 16-111
Prepared by CRM
Checked by EDB
Date September 8, 2017

Sheet No. M002

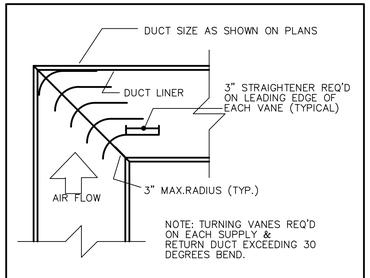
Released for
Review

Tru Hotel



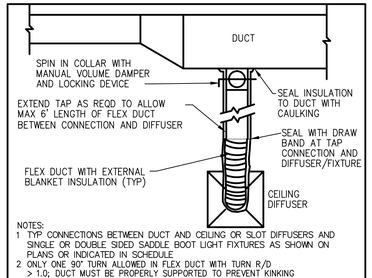
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AIR HANDLING UNIT 1



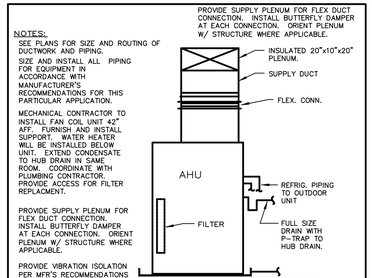
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TURNING VANE DETAIL 2



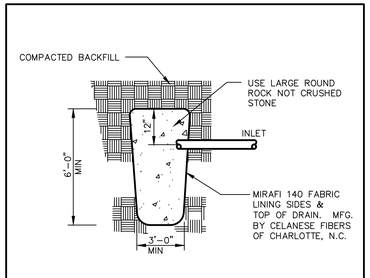
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CONNECTIONS TO MAIN DUCT 3



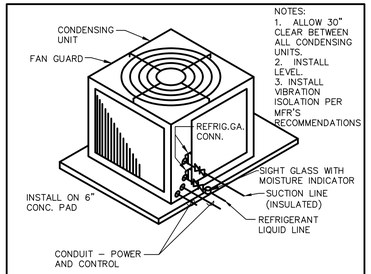
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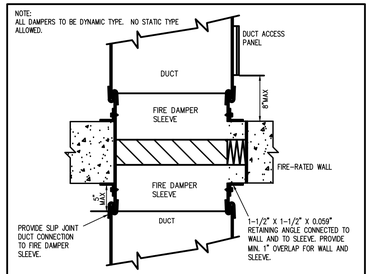
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DRYWELL DETAIL 5



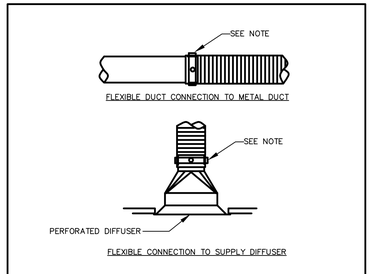
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CONDENSING UNIT 6



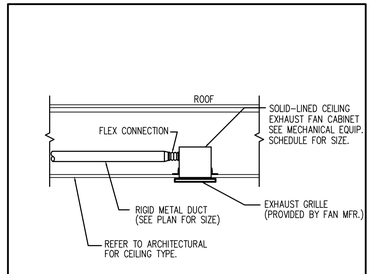
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FIRE DAMPER TYPICAL DETAIL 7



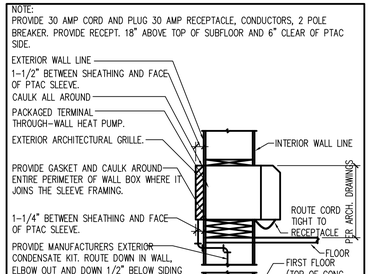
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FLEX CONNECTIONS 8



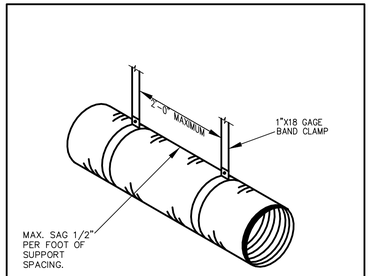
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EXHAUST FAN DETAIL 9



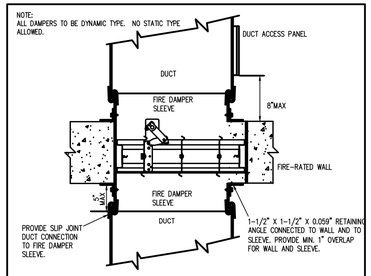
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PTAC UNIT 10



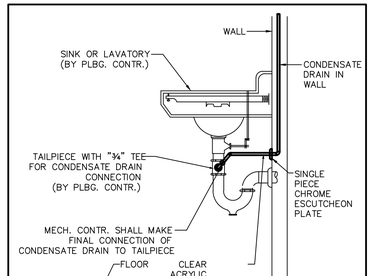
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FLEXIBLE DUCT SUPPORT 11



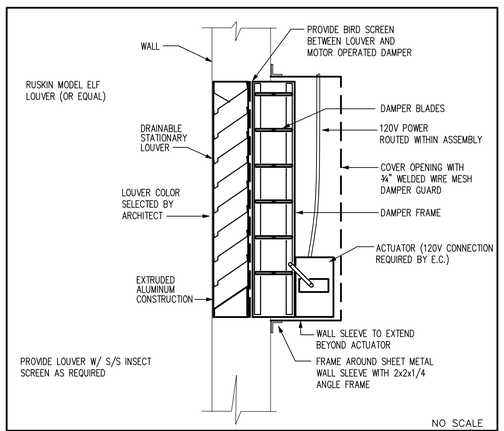
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FIRE + SMOKE DAMPER TYPICAL DETAIL 12



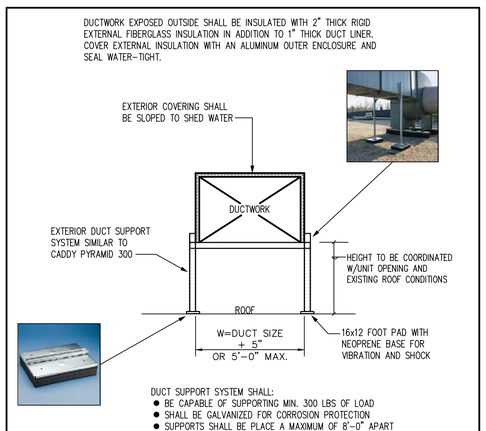
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CONDENSATE DRAIN IN SINK CONNECTION 13



NO SCALE

STATIONARY LOUVER WITH MOTOR OPERATED DAMPER DETAIL 14



NO SCALE

EXTERIOR DUCTWORK ON ROOF 15

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Mechanical Details

Phase
Design Development

Project No. 16-111
Prepared by CRM
Checked by EDB
Date September 8, 2017

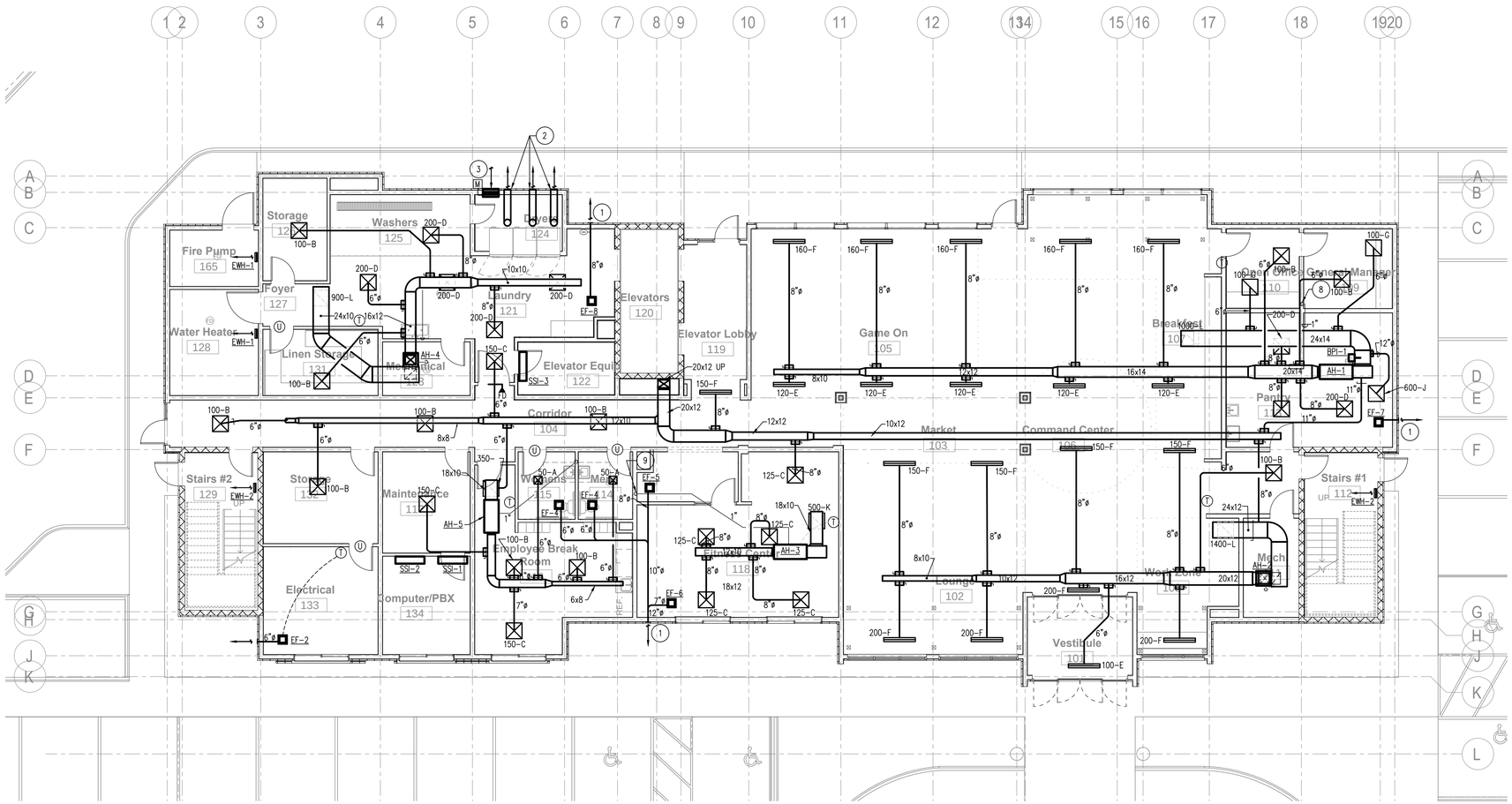
Sheet No. M003

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Review

Tru Hotel

MECHANICAL KEYED NOTES

1. FAN MFR. LOUVERED DISCHARGE.
2. SINGLE WALL RIGID SHEET METAL DRYER VENTS, SIZED PER MANUFACTURER RECOMMENDATIONS. VENT CAP BY M.C. VERIFY SIZE W/ DRYER MANUFACTURER.
3. (2)24"x24" RUSKIN ELF 375 MAKE-UP/COMBUSTION AIR LOUVERS. 1 LOUVER TO BE LOCATED 12"AFF. 1 LOUVER TO BE LOCATED 12" BELOW CEILING/TOP OF SPACE. PROVIDE W/ MOD SET IN CLOSED POSITION. DAMPER SHALL OPEN UP FULLY UPON ACTIVATION OF DRYERS.



1 M101 MECHANICAL FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

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Drawing Title
Mechanical First Floor Plan

Phase
Design Development

Project No.	16-111
Prepared by	CRM
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Date	September 8, 2017

Sheet No.
M101

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MECHANICAL KEYED NOTES

1. FAN MFR. LOUVERED DISCHARGE.

1 M102 MECHANICAL SECOND FLOOR PLAN

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Tru Hotel

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Drawing Title
Mechanical
Second Floor Plan

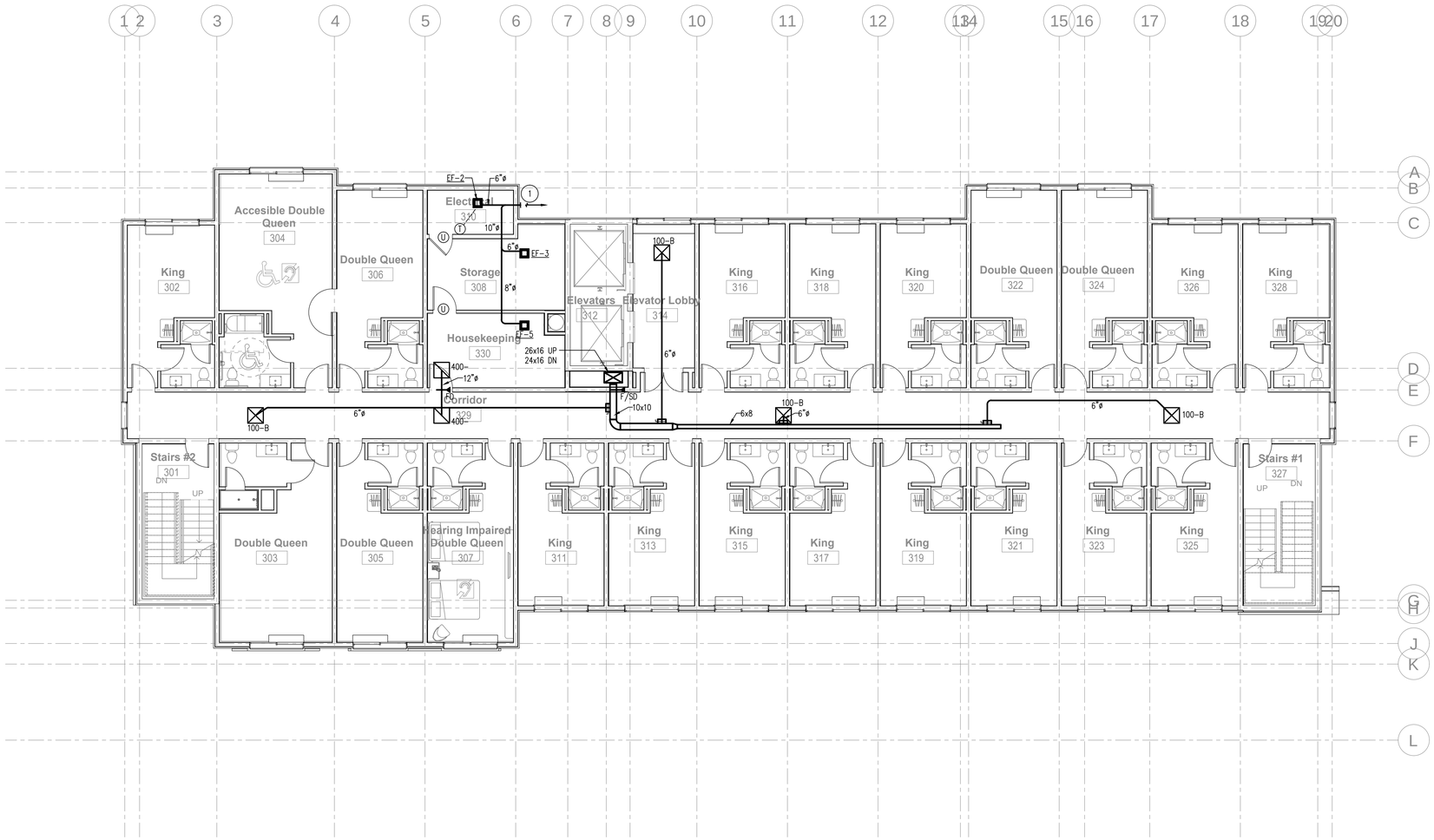
Phase
Design Development

Project No.	16-111
Prepared by	CRM
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1 M103 MECHANICAL THIRD FLOOR PLAN
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Tru Hotel

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Drawing Title
Mechanical Third Floor Plan

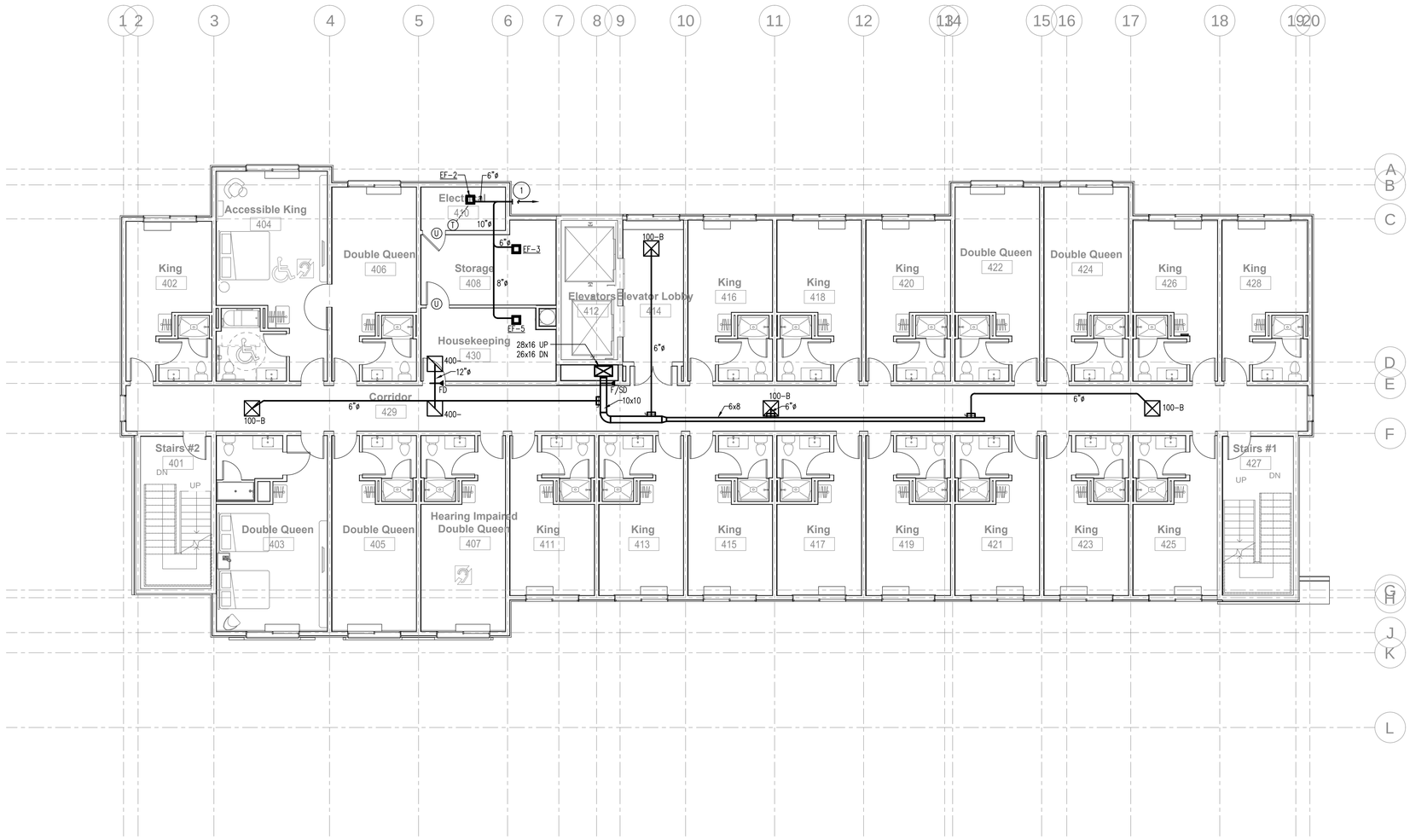
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Date September 8, 2017

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1 M104 MECHANICAL FOURTH FLOOR PLAN

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

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Tru Hotel

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Drawing Title
Mechanical Fourth Floor Plan

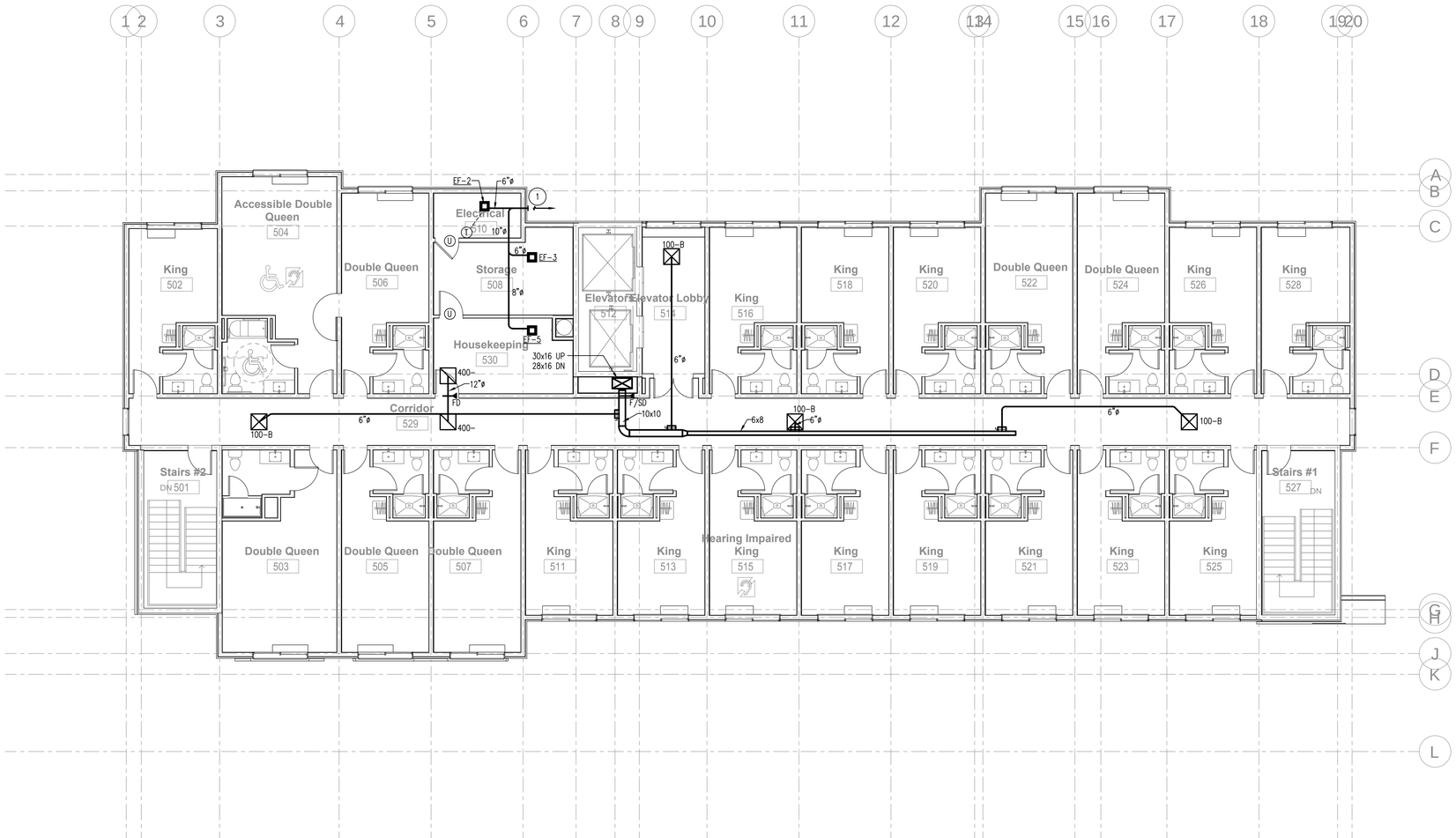
Phase
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Project No.	16-111
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Date	September 8, 2017

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1 M105 MECHANICAL FIFTH FLOOR PLAN
SCALE: 1/8" = 1'-0"

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Drawing Title
Mechanical Fifth Floor Plan

Phase
Design Development

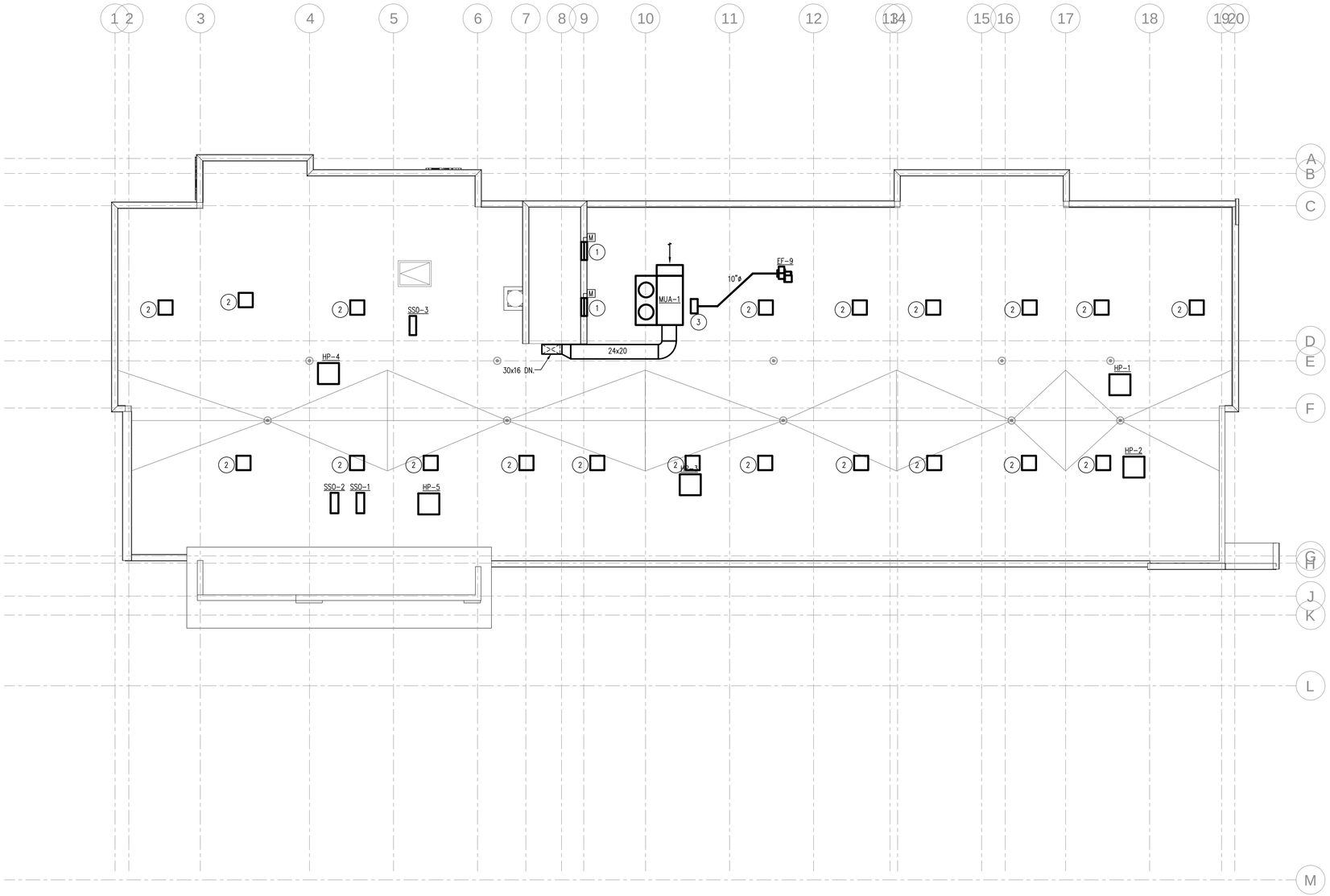
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EXTERIOR DUCTS SHALL BE INSULATED WITH 2" THICKNESS OF POLYSTYRENE "BEAD" BOARD (R=8 MIN) MECHANICALLY FASTENED @ 12" O.C. MAX, ALL VOIDS IN INSULATION JOINTS WILL BE CHINKED AND TAPED WITH FSK TAPE. DUCT SHALL BE FINISHED WITH .032 STUCCO EMBOSSED ALUMINUM SHEET FASTENED WITH #8 STAINLESS STEEL TEK SCREWS. DUCTS OVER "18" WILL REQUIRE A SCREW STRIP IMPALED OVER MECHANICAL FASTENERS. ALL JOINTS AND LAPS IN ALUMINUM SHALL BE INSTALLED TO SHED WATER AND PROPERLY CAULKED TO AVOID WATER INFILTRATION. THERE SHALL BE NO METAL JOINTS ON THE TOP OF DUCT. FINISHED METAL SHALL HAVE A SMOOTH APPEARANCE WITH A MINIMUM NUMBER OF LAPS.



MECHANICAL KEYED NOTES

1. 30"x30" RUSKIN ELF 375 LOUVER W/ MOD. MOTOR OPERATED DAMPER SHALL REMAIN CLOSED AND OPEN UPON DETECTION OF SMOKE IN THE ELEVATOR SHAFT.
2. GREENHECK "FGR" HOOD. PROVIDE W/ ROOF CURB AND BIRD SCREEN. SEAL AROUND CURB AIR AND WATER TIGHT. THROAT SHALL BE 24"x24".
3. PROVIDE 24"x12"x14" PLENUM OVER EXHAUST DUCT PENETRATIONS AT ROOF. PLENUM SHALL COMPLETELY COVER PENETRATIONS. SEAL AROUND PLENUM AIR AND WATER TIGHT.

1 M201 MECHANICAL ROOF PLAN

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

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Drawing Title
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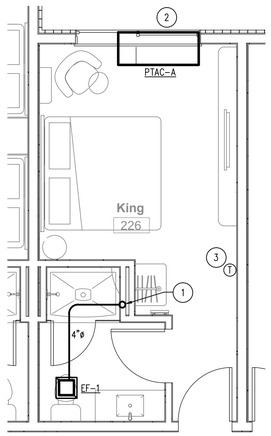
Phase
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Project No. 16-111
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Date September 8, 2017

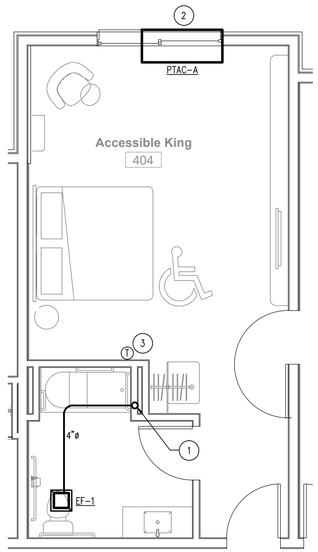
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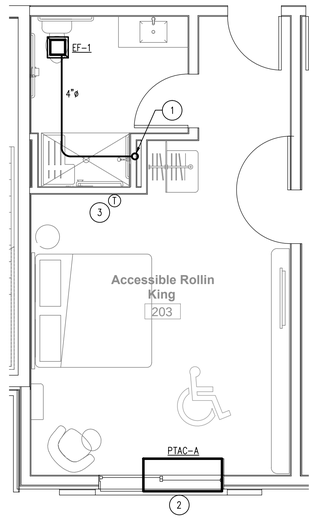
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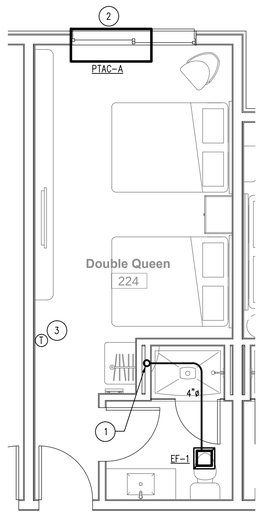
1 M301 **KING**
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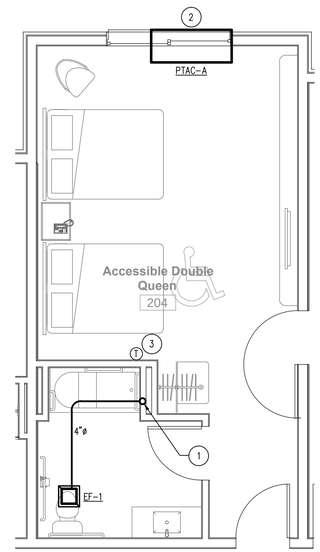
2 M301 **ACC. KING**
SCALE: 1/4" = 1'-0"



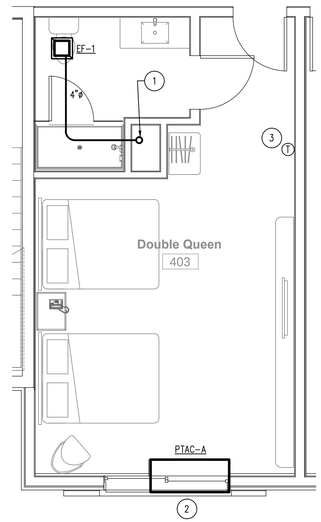
3 M301 **ACC. ROLL-IN KING**
SCALE: 1/4" = 1'-0"



4 M301 **DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



5 M301 **ACC. DOUBLE QUEEN**
SCALE: 1/4" = 1'-0"



6 M301 **DOUBLE QUEEN WIDE**
SCALE: 1/4" = 1'-0"

MECHANICAL KEYED NOTES

1. ROUTE 4" (26 GAUGE) SHEET METAL EXHAUST DUCT UP TO ROOF.
2. SEE PTAC CONDENSATE RISER DETAIL ON SHEET M002.
3. NEW INNCOM E4 DIGITAL 2-SPEED THERMOSTAT. INTERLOCK W/ PTAC.

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REVISIONS		
No.	Date	Description

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Enlarged
Guestroom Plans

Phase
Design Development

Project No. 16-111
Prepared by CRM
Checked by EDB
Date September 8, 2017

Sheet No.
M301

Released for
Review

Tru Hotel

PLUMBING LEGEND

	DOMESTIC COLD WATER PIPING (CW)
	DOMESTIC HOT WATER PIPING (HW)
	DOMESTIC HOT WATER RETURN PIPING (HWR)
140°	DOMESTIC HOT WATER PIPING (HW), 140° F.
140°	DOMESTIC HOT WATER RETURN PIPING (HWR), 140° F.
G	NATURAL GAS PIPING (G)
PD	PUMP DISCHARGE PIPING (PD)
	SANITARY PIPING (SAN, S)
GW	GREASE WASTE (GW)
	VENT PIPING (V)
	STORM PIPING ST (EST FOR SECONDARY PIPING)
	BACKFLOW PREVENTER (BFP)
	BALANCING VALVE, BV-1
OR	BALL VALVE
	CAP
	CHECK VALVE
OR	FLOOR CLEANOUT (FCO)
	FLOOR DRAIN (FD)
	FLOOR SINK (FS)
	GAS COCK
	GRADE CLEANOUT (GCO)
OR	PIPE DOWN
OR	PIPE UP
	PRESSURE GAUGE
	STRAINER
	T&P RELIEF VALVE
	THERMOMETER
	UNION
	WALL CLEANOUT (WCO)

ABV	ABOVE
A/C	ABOVE CEILING
AFF	ABOVE FINISHED FLOOR
AHAP	AS HIGH AS POSSIBLE
BLDG	BUILDING
BFF	BELOW FINISHED FLOOR
BLW	BELOW
B/S	BELOW SLAB
CLG	CEILING
CONN	CONNECT OR CONNECTION
CONT	CONTINUATION
DN	DOWN
EST	EMERGENCY (SECONDARY) STORM
FLR	FLOOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
MTD	MOUNTED
P.C.	PLUMBING CONTRACTOR
ST	STORM
T&P	TEMPERATURE AND PRESSURE
TYP	TYPICAL
VTR	VENT THROUGH ROOF
W	WASTE

WATER HAMMER ARRESTER SCHEDULE

PDI SIZE	FIXTURE UNITS	MODEL
A	1 – 11	SIOUX CHIEF 652-AS
B	12 – 32	SIOUX CHIEF 653-BS
C	33 – 60	SIOUX CHIEF 654-CS
D	61 – 113	SIOUX CHIEF 655-DS
E	114 – 154	SIOUX CHIEF 656-ES
F	155 – 330	SIOUX CHIEF 657-FS

WATER HAMMER ARRESTERS SHALL BE SEAMLESS, PISTON-TYPE, SIZED AND INSTALLED IN ACCORDANCE WITH PDI-WH201. INSTALL WATER HAMMER ARRESTER IN STANDARD TEE, SAME SIZE AS CONNECTED PIPING. AIR CHAMBERS WILL NOT BE PERMITTED.

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
    - -FUEL GAS SYSTEM
    - -STORM DRAIN 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 AUTOMATIC CIRCULATING HOT WATER SYSTEM 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 AND VENT PIPING
   - 4.1. PVC PIPING INSTALLED IN RETURN AIR PLENUMS MUST BE PROTECTED WITH 3M FIRE BARRIER PLENUM WRAP 5A+, OR SIMILAR PRODUCT.
   - 4.2. 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.
   - 4.3. 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.
4. PUMPED DISCHARGE PIPING:
   - 4.1. SCHEDULE 40 GALVANIZED STEEL PIPE CONFORMING TO ASTM A-53 WITH GALVANIZED CAST IRON THREADED DRAINAGE FITTINGS.
   - 4.2. IF PERMITTED BY LOCAL CODES, CPVC PIPE AND FITTINGS CONFORMING TO ASTM D 2846 MAY BE USED.
   - 4.3. IF PERMITTED BY LOCAL CODES, ASTM D 1785 SCHEDULE 40 SOLID WALL PVC PIPE WITH ASTM D 2464 SCHEDULE 40 SOCKET-TYPE FITTINGS MAY BE USED.
5. 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.
6. 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.
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 SOIL AND WASTE STACKS, AND FOR EVERY FOUR 45° CHANGES LOCATED IN SERIES (A LONG SWEEP IS EQUIVALENT TO TWO 45° BENDS).
8. DO NOT CONNECT HORIZONTAL BRANCHES WITHIN 10 PIPE DIAMETERS DOWNSTREAM OF THE BASE OF ANY SANITARY STACK.
9. 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 TWICE THE EFFECTIVE OPENING OF THE INDIRECT WASTE PIPE.
10. IF ALLOWED BY LOCAL AUTHORITY HAVING JURISDICTION, A TRAP SEAL MAINTENANCE DEVICE MAY BE USED IN LIEU OF A TRAP PRIMER WHERE TRAP SEAL IS SUBJECT TO LOSS BY EVAPORATION.

FUEL 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. FUEL 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. FUEL 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 FUEL 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.
12. BEFORE INSTALLING ANY FUEL GAS PIPING, VERIFY THAT GAS IS AVAILABLE AT THE PRESSURE INDICATED ON THE DRAWINGS. IF THE AVAILABLE PRESSURE IS DIFFERENT THAN THE DESIGN PRESSURE, IMMEDIATELY SEEK CLARIFICATION THROUGH ARCHITECT TO DETERMINE IF PIPE SIZES NEED TO BE REVISED.

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. PVC PIPING INSTALLED IN RETURN AIR PLENUMS MUST BE PROTECTED WITH 3M FIRE BARRIER PLENUM WRAP 5A+, OR SIMILAR PRODUCT.
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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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
PLUMBING NOTES AND LEGEND

Phase
Design Development

Project No.	16-111
Prepared by	JDH
Checked by	CED
Date	September 8, 2017

Sheet No.
P002

Released for
Review

Tru Hotel

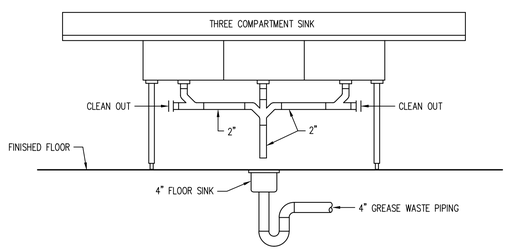
PLUMBING FIXTURE SPECIFICATIONS AND CONNECTION SCHEDULE

MARK	FIXTURE	TYPE	MATERIAL	PIPE SIZES				SPECIFICATION
				SAN	VENT	CW	HW	
WC-1	WATER CLOSET	FLOOR MOUNTED FLUSH TANK STANDARD HEIGHT	VITREOUS CHINA	3"	2"	½"	–	FIXTURE: AMERICAN STANDARD CADET 3 2514.101, 1.28 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: AMERICAN STANDARD 5350.11
WC-2	WATER CLOSET	FLOOR MOUNTED FLUSH TANK ADA HEIGHT	VITREOUS CHINA	3"	2"	½"	–	FIXTURE: AMERICAN STANDARD CADET 3 2989.101 (LEFT APPROACH), 1.28 GALLONS PER FLUSH, OR 2989.813 (RIGHT APPROACH), 1.6 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 3" FLUSH VALVE, EVERCLEAN SURFACE. PROVIDE WITH TRIP LEVER ON APPROACH SIDE OF TANK. SUPPLY: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: INCLUDED WITH FIXTURE
WC-3	WATER CLOSET	FLOOR MOUNTED FLUSH TANK ADA HEIGHT	VITREOUS CHINA	3"	2"	½"	–	FIXTURE: AMERICAN STANDARD CADET 3 2989.101 (LEFT APPROACH), 1.28 GALLONS PER FLUSH, OR 2989.813 (RIGHT APPROACH), 1.6 GALLONS PER FLUSH, ELONGATED RIM, SIPHON JET FLUSH ACTION, 3" FLUSH VALVE, EVERCLEAN SURFACE. PROVIDE WITH TRIP LEVER ON APPROACH SIDE OF TANK. SUPPLY: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE CLOSET SUPPLY KIT, WITH WHEEL HANDLE ANGLE STOP. SEAT: BEMIS MODEL 2155SSCT HEAVY DUTY, SOLID PLASTIC, OPEN FRONT, LESS COVER, SELF-SUSTAINING CHECK HINGES WITH STAINLESS STEEL POSTS AND PINTLES, STA-TITE FASTENING SYSTEM, ANTIMICROBIAL.
L-1	LAVATORY	UNDERMOUNT ADA COMPLIANT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD OVALYN MODEL 0495.221.020, 17" X 14" OVAL BOWL, FRONT OVERFLOW, UNGLAZED RIM. FAUCET: MOEN 6191, POLISHED CHROME-PLATED, SINGLE CONTROL, SINGLE HOLE, WITH POP-UP DRAIN ASSEMBLY, 1.2 GPM AERATOR. TRAP: 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 #102 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS.
L-2	LAVATORY	UNDERMOUNT ADA COMPLIANT	VITREOUS CHINA	1½"	1½"	½"	½"	FIXTURE: AMERICAN STANDARD OVALYN MODEL 0495.221.020, 17" X 14" OVAL BOWL, FRONT OVERFLOW, UNGLAZED RIM. FAUCET: MOEN 9480 AMBITION LOW PROFILE FAUCET, POLISHED CHROME-PLATED, SINGLE CONTROL, SINGLE HOLE, 1.2 GPM AERATOR. TRAP: McGUIRE 155A STRAINER WITH 1-1/4" 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 #102 E-Z UNDERSINK PIPING COVERS, WITH P-TRAP COVER, TWO ANGLE VALVE AND SUPPLY COVERS.
LT-1	LAUNDRY TUB	FLOOR MOUNTED DOUBLE BOWL	MOLDED STONE	1½"	1½"	½"	½"	FIXTURE: FIAT MODEL FLTD II TWIN TUB FLOOR MOUNTED SERV-A-SINK, 40" X 24" X 13-7/8" DEEP, WITH INTEGRAL DRAIN AND PLUG, WHITE BAKED ENAMEL STEEL ANGLE LEGS WITH LEVELING DEVICES. FAUCET: AMERICAN STANDARD LAUNDRY FAUCET MODEL 7573.240.002, POLISHED CHROME-PLATED CAST BRASS, 4" CENTERSET, SWIVEL SPOUT, LEVER HANDLES, 2.2 GPM AERATOR. TRAP: 1-1/2" CHROME-PLATED BRASS TAILPIECES, McGUIRE 1-1/2" 17 GAUGE CHROME-PLATED CAST BRASS CONTINUOUS WASTE AND P-TRAP WITH CLEANOUT PLUG. SUPPLIES: McGUIRE 1/2" X 3/8" CHROME-PLATED CAST BRASS FLEXIBLE SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS.
S-1	SINK	COUNTERTOP SINGLE BOWL ADA COMPLIANT	STAINLESS STEEL	1½"	1½"	½"	½"	FIXTURE: DAYTON CE1252I STAINLESS STEEL SINGLE BOWL, TOP-MOUNT SINK, 25"W X 21-1/4"D X 5-3/8"H FAUCET: AMERICAN STANDARD RELIANT+ NO. 4205.000.002, POLISHED CHROME-PLATED, SINGLE CONTROL, METAL LEVER HANDLE, SWIVEL SPOUT, LESS HAND SPRAY. TRAP: ELKAY LK35 TYPE 304 STAINLESS STEEL DRAIN WITH CRUMB CUP STRAINER AND CHROME-PLATED BRASS TAILPIECE, McGUIRE 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 SUPPLY KITS, WITH WHEEL HANDLE ANGLE STOPS.
EWC-1	ELECTRIC WATER COOLER (BOTTLE FILLING STATION)	WALL MOUNTED	STAINLESS STEEL	1½"	1½"	½"	–	FIXTURE: ELKAY MODEL EZWS(M)8K, ADA COMPLIANT SINGLE DISPENSER, SELF-CONTAINED, 8.0 GPH,SENSOR ACTIVATION TRAP: McGUIRE 1-1/2" 17 GAUGE P-TRAP. SUPPLY: McGUIRE 1/2" X 3/8" CAST BRASS STOP WITH WHEEL HANDLE, OR 1/2" FULL PORT BALL VALVE.
SH-1	SHOWER	SHOWER FLOOR	CAST MARBLE	2"	2"	½"	½"	FIXTURE: MINCEY MARBLE MODEL SP-3448-C/IF, 34" X 48", RECTANGLE SHOWER PAN, SEAMLESS, GEL COAT SURFACE, WITH INTEGRAL FRONT CURB, SIDE AND BACK FLANGES, CENTER DRAIN CUTOUT, TEXTURED NON-SLIP FLOOR FINISH, PRE-LEVELED FOR ON FLOOR INSTALLATION. HEAD: MOEN 3638EP, 4 FUNCTION SHOWER HEAD, POLISHED CHROME FINISH VALVE: MOEN ALIGN TRIM AND VALVE T2191 / 62370, REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND MOUNTING HEIGHTS. DRAIN: OATEY MODEL 42150, BRASS DRAIN WITH STAINLESS STEEL PERFORATED STRAINER.
SH-2	SHOWER	SHOWER FLOOR ADA COMPLIANT	CAST MARBLE	2"	2"	½"	½"	FIXTURE: MINCEY MARBLE MODEL SP-3162-C/SF, 31" X 62" ROLL-IN SHOWER PAN, SEAMLESS, GEL COAT SURFACE, WITH FIBERGLASS SIDE AND BACK CURBS, FIBERGLASS FLANGE, CENTER DRAIN, TEXTURED NON-SLIP FLOOR FINISH, PRE-LEVELED FOR ON FLOOR INSTALLATION. FAUCET: MOEN 3638EP, 4 FUNCTION SHOWER HEAD, POLISHED CHROME FINISH; MOEN 3669EP 4 FUNCTION MASSAGING HANDSHOWER W/ SLIDE BAR, NCLUDES:HANDHELD SHOWER, 69" DOUBLE INTERLOCK SPIRAL HOSE (METAL); DOUBLE CHECK VALVES IN HANDSHOWER, 30" SLIDE BAR WITH PUSH BUTTON HEIGHT SELECTION. PURCHASE THE FOLLOWING SEPARATELY:DROP ELL (A725), PRESSURE BALANCING VALVE (62370) THREE FUNCTION COMMERCIAL TRANSFER VALVE TRIM KIT, WITH DIVERTER (3360), ALIGN THREE FUNCTION TRANSFER VALVE TRIM KIT WITH DIVERTER (T4192) DRAIN: OATEY MODEL 42150, BRASS DRAIN WITH STAINLESS STEEL PERFORATED STRAINER.
BT-1	BATHTUB	ALCOVE ADA COMPLIANT	AMERICAST	2"	2"	½"	½"	FIXTURE: AMERICAN STANDARD PRINCETON MODEL 2396.202.020 (LEFT DRAIN) OR 2397.202.020 (RIGHT DRAIN), 60" X 34" BATH WITH INTEGRAL APRON AND TILING FLANGE, SLIP-RESISTANT FINISH, ABOVE FLOOR INSTALLATION. VALVE: AMERICAN STANDARD MODEL R120SS PRESSURE BALANCING ROUGH VALVE BODY WITH SCREWDRIVER STOPS, AND AMERICAN STANDARD MODEL R430 3-WAY IN-WALL DIVERTER VALVE BODY. TRIM: AMERICAN STANDARD RELIANT 3 MODEL T385.501WDXH.002 SHOWER TRIM KIT, LESS SHOWER HEAD, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 8888.056.002 NON-DIVERTER TUB SPOUT, POLISHED CHROME FINISH; WATERPIK MODEL SM-621 SIX-FUNCTION SHOWER HEAD; AMERICAN STANDARD SERIN MODEL T064.430.002 DIVERTER VALVE TRIM, POLISHED CHROME FINISH; WATERPIK MODEL SM-651 HAND SHOWER; AMERICAN STANDARD MODEL 8888.038.002 WALL SUPPLY BRACKET, POLISHED CHROME FINISH; AMERICAN STANDARD MODEL 888.035.002 59" METAL SHOWER HOSE, POLISHED CHROME FINISH; AND AMERICAN STANDARD MODEL 1660.400.002 IN-LINE VACUUM BREAKER, POLISHED CHROME FINISH. ALL CONTROLS SHALL BE OFFSET 8" FROM CENTER TOWARDS FRONT OF TUB. DRAIN: AMERICAN STANDARD MODEL 1545.170.002 LIFT-N-TURN BATH DRAIN WITH OVERFLOW, POLISHED CHROME FINISH.
EEW-1	EMERGENCY EYE/FACE WASH	WALL MOUNTED	ABS	1½"	1½"	½"	½"	FIXTURE: HAWS MODEL 7260BT-7270BT, EYE/FACE WASH HEAD WITH DUST COVER, ABS PLASTIC BOWL, CHROME PLATED BRASS STAY-OPEN EYEWASH VALVE WITH PUSH HANDLE, CAST ALUMINUM WALL BRACKET, 1-1/2" CHROME PLATED BRASS TAILPIECE AND P-TRAP. MIXING VALVE: HAWS MODEL 9201EFE THERMOSTATIC MIXING VALVE FOR EMERGENCY EYEWASH EQUIPMENT, WITH MODEL 9200REC RECESSED STAINLESS STEEL CABINET.

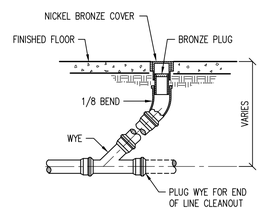
NOTE: THE ABOVE FIXTURE SPECIFICATIONS ARE PROVIDED TO INDICATE TYPE OF FIXTURES AND OPTIONS REQUIRED. ALTERNATE MANUFACTURERS WILL BE ACCEPTED SUBJECT TO THE APPROVAL OF THE OWNER AND HOTEL BRAND.

PLUMBING EQUIPMENT SCHEDULE

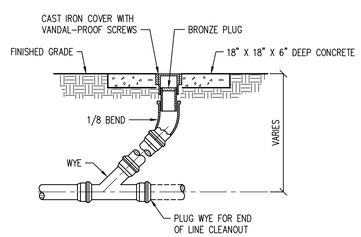
MARK	EQUIPMENT	MANUFACTURER & MODEL NO.	SPECIFICATION
BP-1	DOMESTIC BOOSTER PUMP	QUANTUMFLO PRODIGY E2 SERIES	PACKAGED, SKID-MOUNTED, VARIABLE SPEEED DUPLEX DOMESTIC BOOSTER PUMP, 160 GPM @ 20 PSI SYSTEM BOOST, 3 HP PUMPS, 208V/1 PHASE.
BV-1	BALANCING VALVE ASSEMBLY	CIRCUIT SOLVER	CUSA-1/2-114-CV1-03 THERMOSTATIC VALVE WITH INTEGRATED CHECK VALVE AND BALL VALVES.
DSN	DOWNSPOUT NOZZLE FOR OVERFLOW ROOF DRAINS	ZURN ZANB199-SS	NICKEL BRONZE BODY WITH REMOVABLE STAINLESS SCREEN.
ESP	ELEVATOR SUMP PUMP	STANCOR OIL-MINDER MODEL SE-100	SUBMERSIBLE EFFLUENT PUMP SYSTEM WITH OIL-MINDER CONTROL, 1.0 HP STAINLESS STEEL PUMP, 115V, 100 GPM @ 15' HEAD, CONTROL PANEL WITH AUDIBLE AND VISIBLE ALARM, JUNCTION BOX WITH INTERCONNECTING CABLES TO PUMP AND CONTROL PANEL.
FCO	FLOOR CLEAN OUT	ZURN ZN1400-BP	ADJUSTABLE, COATED CAST IRON BODY, ROUND SCORIATED NICKEL BRONZE TOP, BRONZE PLUG.
FD-1	FLOOR DRAIN	ZURN ZN415S-P	CAST IRON BODY, MEMBRANE CLAMP, ADJUSTABLE COLLAR, 6" SQUARE "TYPE S" 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.
FGH	FREEZELESS GROUND HYDRANT	PRIER MODEL P-260-3	ANTI-SIPHON, SELF-DRAINING, LOCKABLE, CAST IRON HEAD AND LEVER HANDLE, HEAVY DUTY GALVANIZED STEEL PIPE, 3' BURY DEPTH, ¾" INLET, ¾" BRASS HOSE THREAD OUTLET, BUILT IN BACKFLOW PREVENTER, INCLUDE ASSE 1052 VACUUM BREAKER.
FRH	FREEZELESS ROOF HYDRANT	MAPA PRODUCTS MODEL MPH-24FP:24/9	PEDESTAL MOUNT, GRADE 304 STAINLESS STEEL SHROUD WITH WELDED STAINLESS STEEL FLANGE, POWDER COATED CAST ALUMINUM WEATHER-GUARD HANDLE, ¾" INLET, BRONZE GLOBE ANDGLE VALVE WITH ¾" HOSE THREAD OUTLET, QUICK DISCONNECT, BUILT-IN VACUUM BREAKER, SELF DRAINING WITH INTEGRAL STAINLESS STEEL RESERVOIR.
FS-1	FLOOR SINK	ZURN ZN1910-KC-2	8"x8"x6" 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.
FWH	FREEZELESS WALL HYDRANT	PRIER MODEL C-634N	ENCASED, ANTI-SIPHON, CAST BRASS HYDRANT, SATIN NICKEL FINISH, ¾" INLET, ¾" HOSE THREAD OUTLET, LOOSE KEY OPERATION, SELF DRAINING, WITH INTEGRAL VACUUM BREAKER/BACKFLOW PREVENTER. INCLUDE PRIER MODEL C-634BX1 SATIN NICKEL HYDRANT BOX, WITH HINGED COVER AND OPERATING KEY LOCK.
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.
GI	GREASE INTERCEPTOR	SCHIER GB-50	LIFETIME GUARANTEE, MADE OF SEAMLESS, ROTATIONALLY-MOLDED POLYETHYLENE. INTERCEPTOR SHALL BE CERTIFIED TO ASME A112.14.3 (TYPE C) AND CSA B481.1, WITH FIELD ADJUSTABLE RISER SYSTEM, BUILT-IN FLOW CONTROL, BUILT-IN TEST CAPS AND THREE OUTLET OPTIONS. INTERCEPTOR FLOW RATE SHALL BE 50 GPM. INTERCEPTOR GREASE CAPACITY SHALL BE 249 LBS. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LBS. LOAD CAPACITY. INSTALL INTERCEPTOR ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, WITH COVER FLUSH WITH FINISHED FLOOR/GRADE. PROVIDE COVER RISER AND ALL NECESSARY COMPONENTS FOR A COMPLETE AND CODE COMPLIANT INSTALLATION.
WH-1	GAS WATER HEATER	PVI CONQUEST 20 L 100A-GCL	COMMERCIAL GAS-FIRED, CONDENSING, DIRECT VENT, 100 GALLON CAPACITY, 199.9 MBH INPUT, 233 GPH AT 100°F TEMPERATURE RISE, DUPLEX STAINLESS STEEL TANK, WITH FACTORY INSTALLED T&P RELIEF VALVE AND DRAIN VALVE AND CONDENSATE NEUTRALIZATION KIT
HB-1	HOSE BIBB	WOODFORD MODEL 26P½-PC	INTERIOR, EXPOSED, ANTI-SIPHON, AUTOMATIC DRAINING, POLISHED CHROME FINISH, 1/2" FLANGED FEMALE PIPE THREAD INLET, 3/4" MALE HOSE THREAD NOZZLE, WITH POLYCARBONATE WHEEL HANDLE AND LOOSE TEE KEY, WITH A DOUBLE CHECK BACKFLOW PREVENTION DEVICE.
IMB	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.
MMV	MASTER MIXING VALVE	LEONARD TM-1520B-LF-DT-IT	HIGH/LOW THERMOSTATIC MIXING VALVE, 1 GPM MINIMUM FLOW, 80 GPM AT 15 PSI PRESSURE DROP; LARGE TYPE TM THERMOSTATIC WATER MIXING VALVE, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP, INLET CHECKSTOPS, WALL SUPPORT, OUTLET BALL VALVE; SMALL TYPE TM THERMOSTATIC WATER MIXING VALVE, ADJUSTABLE HIGH TEMPERATURE LIMIT STOP, INLET CHECKSTOPS, OUTLET BALL VALVE; FACTORY ASSEMBLED AND TESTED
RD	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.
TET-1	THERMAL EXPANSION TANK	AMTROL ST-60VC	25 GALLON TANK VOLUME, 0.44 MIN ACCEPTANCE FACTOR
TMV	THERMOSTATIC MIXING VALVE	LEONARD LF-170	ASSE 1070 MIXING VALVE SET AT 105 DEG. F.
WCO	WALL CLEAN OUT	ZURN Z1446-BP	CAST IRON NO-HUB CLEANOUT TEE, WITH ROUND STAINLESS STEEL WALL ACCESS COVER, BRONZE PLUG, SECURING SCREW.
WMB	WASHING MACHINE OUTLET BOX	OATEY FIRE-RATED WASHING MACHINE OUTLET BOX NO. 38478	RECESSED FIRE-RATED PLASTIC BOX, WITH FYREWRAP INSULATION PAD, 1/4 TURN BRASS BALL VALVES WITH WATER HAMMER ARRESTERS, 2" PVC DRAIN WITH GALVANIZED STEEL SLEEVE, ADJUSTABLE GALVANIZED STEEL SUPPORT BRACKETS, SNAP-ON FACEPLATE.



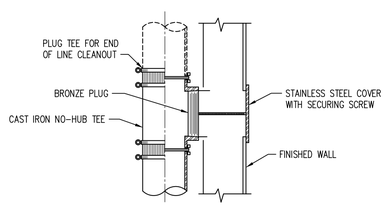
1 P002 THREE COMPARTMENT SINK DETAIL
NOT TO SCALE



2 P002 FLOOR CLEANOUT DETAIL
NOT TO SCALE



3 P002 GRADE CLEANOUT DETAIL
NOT TO SCALE



4 P002 WALL CLEANOUT DETAIL
NOT TO SCALE

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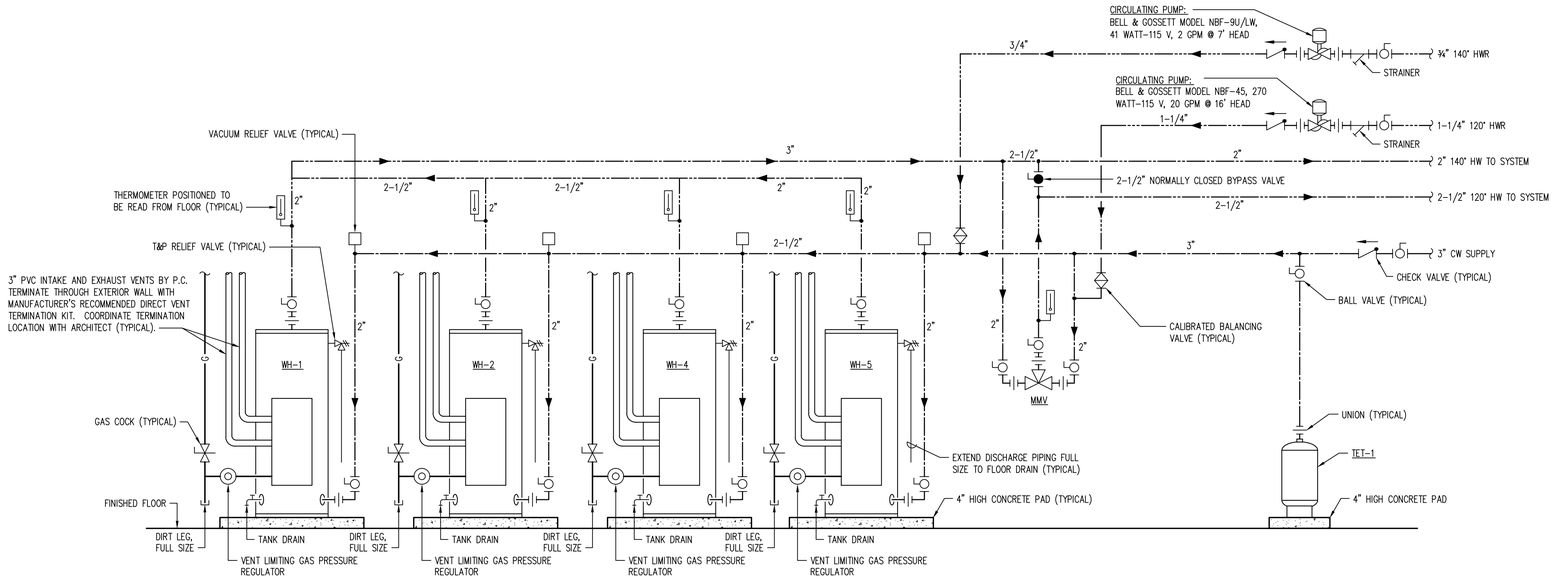
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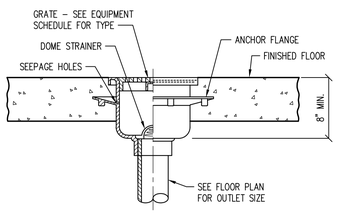
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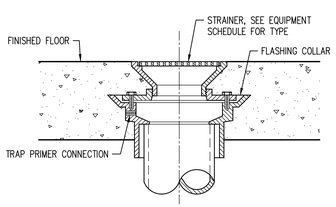
Tru Hotel



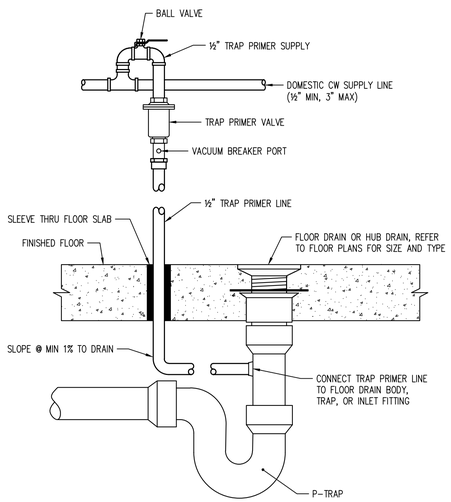
1 P003 **GAS WATER HEATER DETAIL**
NOT TO SCALE



2 P003 **FLOOR SINK DETAIL**
NOT TO SCALE

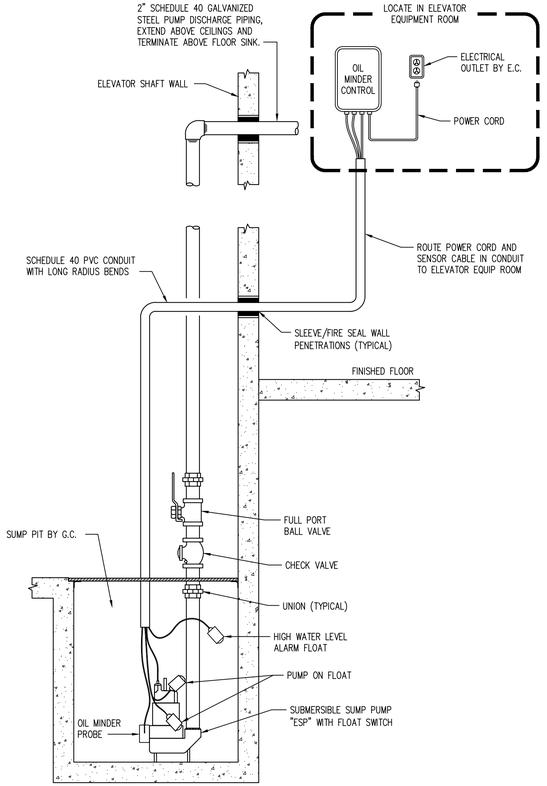


3 P003 **FLOOR DRAIN DETAIL**
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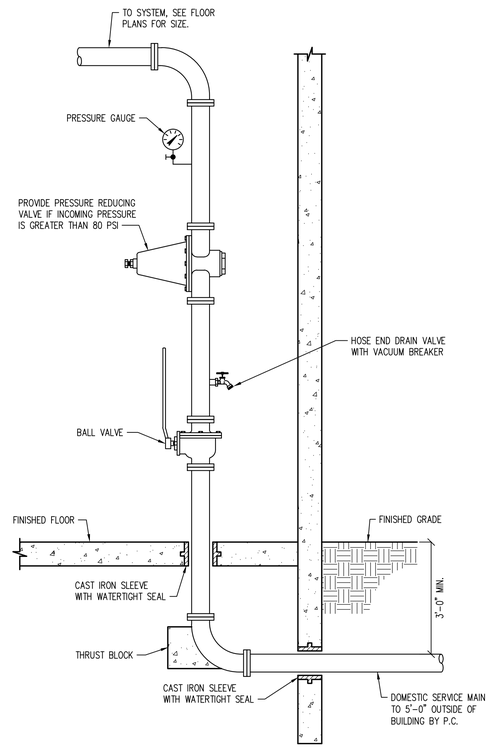


TRAP PRIMER NOTES:
1. PROVIDE TRAP PRIMER VALVES FOR ALL FLOOR DRAINS AND HUB DRAINS, EXCEPT SHOWER DRAINS.
2. TRAP PRIMER VALVES SHALL BE SIOUX CHIEF PRIME PERFECT SERIES 695, OR EQUAL.
3. CONNECT TRAP PRIMER VALVE TO CW LINE: ½" MIN. – 3" MAX.
4. PROVIDE SIOUX CHIEF WYE SPLITTER AND/OR DISTRIBUTOR FOR TRAP PRIMER VALVES SERVING MORE THAN ONE FLOOR DRAIN.
5. MAXIMUM OF EIGHT FLOOR DRAINS MAY BE SERVED BY ONE TRAP PRIMER VALVE.

4 P003 **TRAP PRIMER DETAIL**
NOT TO SCALE



5 P003 **ELEVATOR SUMP PUMP DETAIL**
NOT TO SCALE



6 P003 **DOMESTIC SERVICE RISER DETAIL**
NOT TO SCALE

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

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Monroe, LA 71201

Drawing Title
PLUMBING
DETAILS

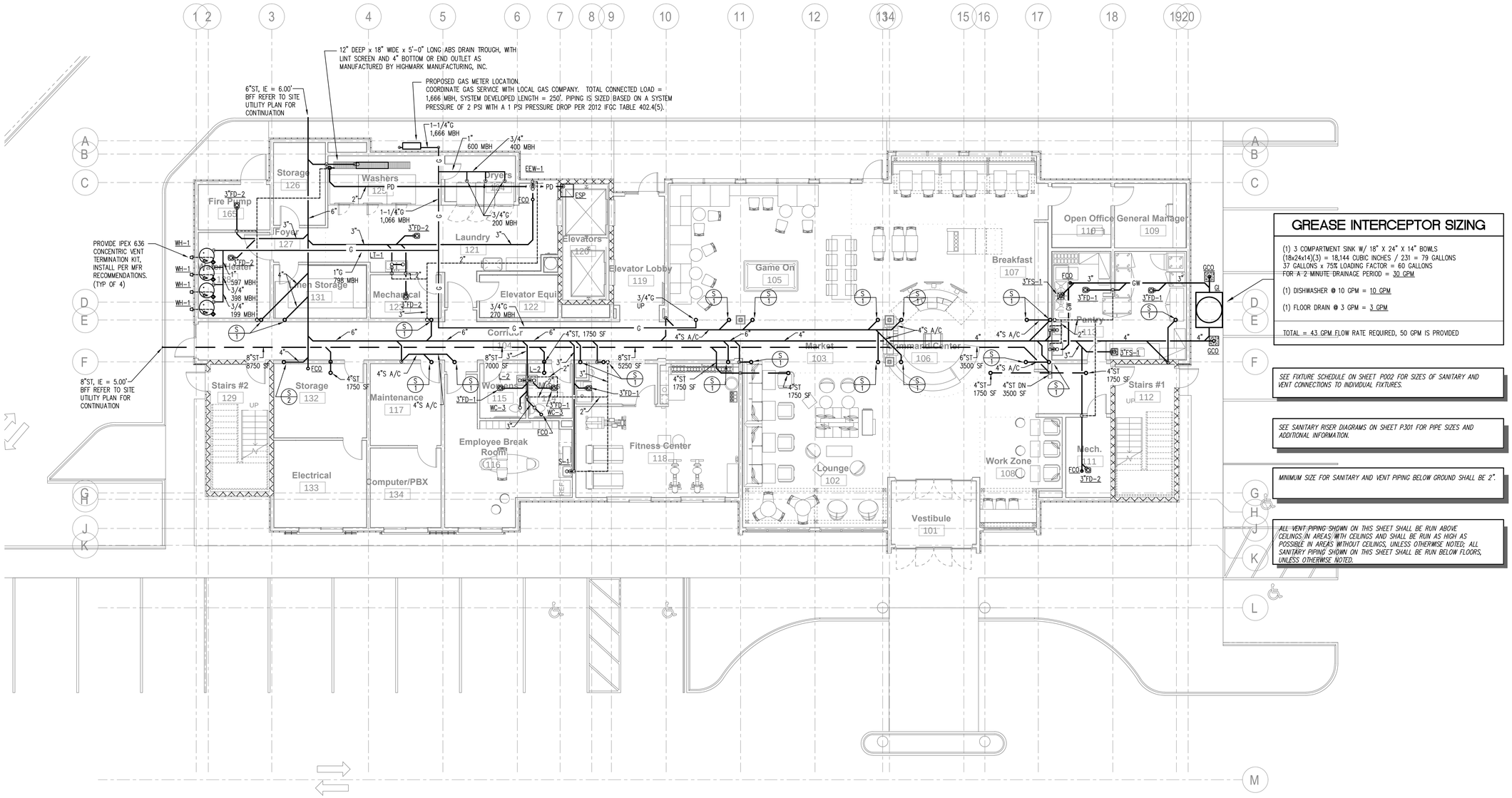
Phase
Design Development

Project No.	16-111
Prepared by	JDH
Checked by	CED
Date	September 8, 2017

Sheet No. P003

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1 P100 LEVEL 1 - PLUMBING WASTE, VENT AND FUEL GAS
SCALE: 1/8" = 1'-0"

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Drawing Title
LEVEL 1 - PLUMBING WASTE, VENT AND FUEL GAS

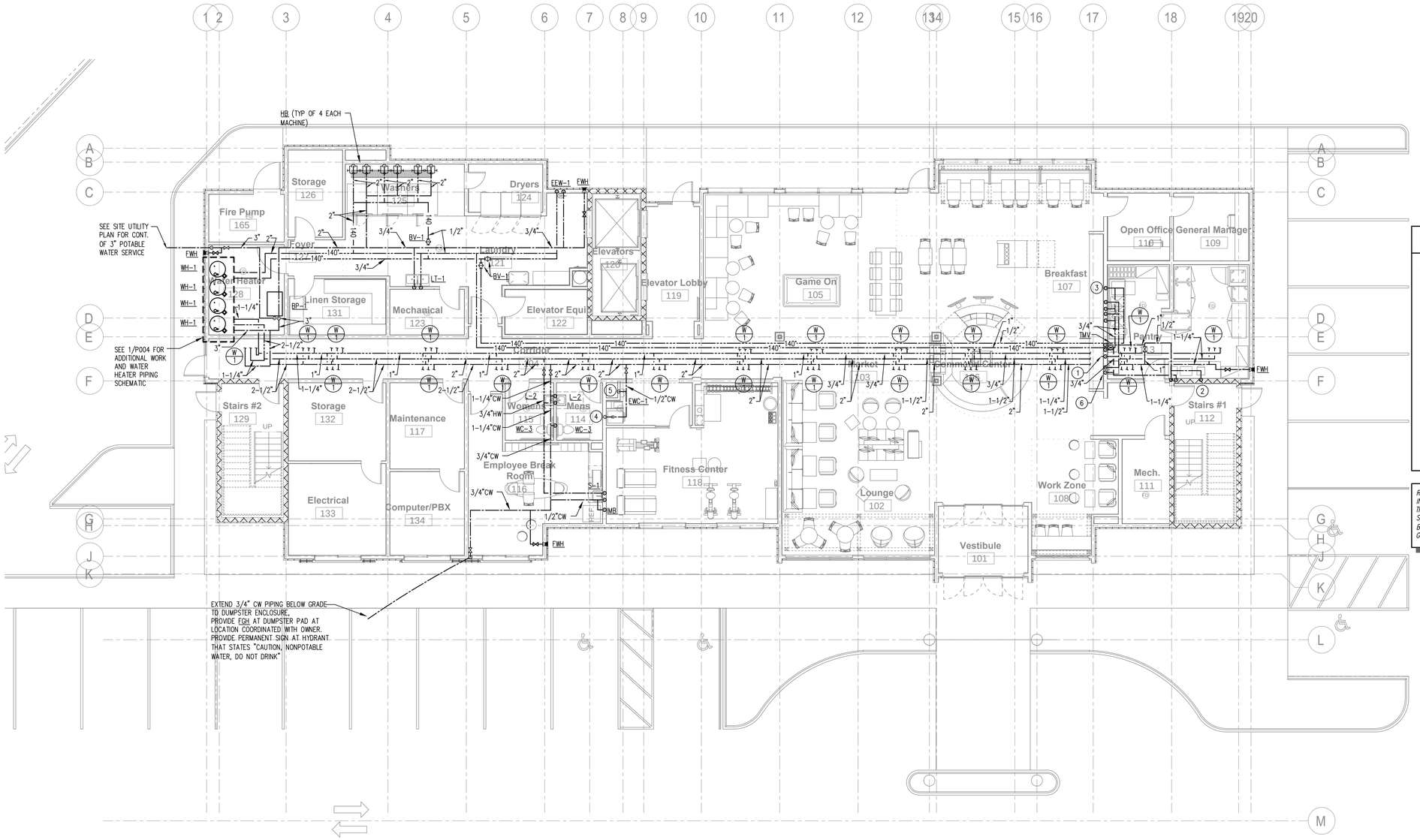
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Design Development

Project No.	16-111
Prepared by	JDH
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Date	September 8, 2017

Sheet No. P100

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1 P101 LEVEL 1 - PLUMBING WATER SUPPLY
SCALE: 1/8" = 1'-0"

KEYED NOTES THIS SHEET

1. CONNECT 1/2" CW TO JUICE MACHINE WITH BALL VALVE AND WATTS SERIES SD-3 DUAL CHECK VALVE. VERIFY SIZE AND LOCATION OF CONNECTION WITH EQUIPMENT SUPPLIER.
2. CONNECT 1/2" CW TO COFFEE MACHINE WITH BALL VALVE AND WATTS SERIES SD-3 DUAL CHECK VALVE. VERIFY SIZE AND LOCATION OF CONNECTION WITH EQUIPMENT SUPPLIER.
3. CONNECT 1/2" HW TO UNDERCOUNTER DISHWASHER PER MANUFACTURER RECCOMENDATIONS
4. CONNECT ½" CW TO ICE MACHINE WITH BALL VALVE AND WATTS SERIES LF7 DUAL CHECK VALVE. VERIFY SIZE AND LOCATION OF CONNECTION WITH EQUIPMENT SUPPLIER.
5. CONNECT ½" CW TO WATER DISPENSER.
6. CONNECT 1/2"HW AND CW TO JANITOR PANTRY.

REFER TO WATER SUPPLY RISER DIAGRAMS FOR WATER PIPING IN EACH GUEST ROOM STACK. THERE IS A CW SUPPLY IN THE WALL BEHIND EACH WATER CLOSET, AND A HW AND CW SUPPLY IN THE WALL BEHIND EACH LAV AND BATHTUB/SHOWER. RISER LOCATIONS ARE SHOWN ON TYPICAL GUEST ROOM PLANS ON SHEET P202.

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Drawing Title
LEVEL 1 - PLUMBING WATER SUPPLY

Phase
Design Development

Project No. 16-111
Prepared by JDH
Checked by CED
Date September 8, 2017

Sheet No. P101

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1 P102 LEVEL 2 - PLUMBING
SCALE: 1/8" = 1'-0"

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P201 AND P202 FOR PIPING IN GUEST ROOMS.

SEE RISER DIAGRAMS ON SHEET P301 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

REFER TO WATER SUPPLY RISER DIAGRAMS FOR WATER PIPING IN EACH GUEST ROOM STACK. THERE IS A CW SUPPLY IN THE WALL BEHIND EACH WATER CLOSET, AND A HW AND CW SUPPLY IN THE WALL BEHIND EACH LAV AND BATHTUB/SHOWER. RISER LOCATIONS ARE SHOWN ON TYPICAL GUEST ROOM PLANS ON SHEET P202.

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LEVEL 2 - PLUMBING

Phase
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Project No. 16-111
Prepared by JDH
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Date September 8, 2017

Sheet No.
P102

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1 P103 LEVEL 3 - PLUMBING
SCALE: 1/8" = 1'-0"

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P201 AND P202 FOR PIPING IN GUEST ROOMS.

SEE RISER DIAGRAMS ON SHEET P301 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

REFER TO WATER SUPPLY RISER DIAGRAMS FOR WATER PIPING IN EACH GUEST ROOM STACK. THERE IS A CW SUPPLY IN THE WALL BEHIND EACH WATER CLOSET, AND A HW AND CW SUPPLY IN THE WALL BEHIND EACH LAV AND BATHTUB/SHOWER. RISER LOCATIONS ARE SHOWN ON TYPICAL GUEST ROOM PLANS ON SHEET P202.

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Drawing Title
LEVEL 3 - PLUMBING

Phase
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Sheet No.
P103

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1 P104 LEVEL 4 - PLUMBING
SCALE: 1/8" = 1'-0"

SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P201 AND P202 FOR PIPING IN GUEST ROOMS.

SEE RISER DIAGRAMS ON SHEET P301 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

REFER TO WATER SUPPLY RISER DIAGRAMS FOR WATER PIPING IN EACH GUEST ROOM STACK. THERE IS A CW SUPPLY IN THE WALL BEHIND EACH WATER CLOSET, AND A HW AND CW SUPPLY IN THE WALL BEHIND EACH LAV AND BATHTUB/SHOWER. RISER LOCATIONS ARE SHOWN ON TYPICAL GUEST ROOM PLANS ON SHEET P202.

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LEVEL 4 - PLUMBING

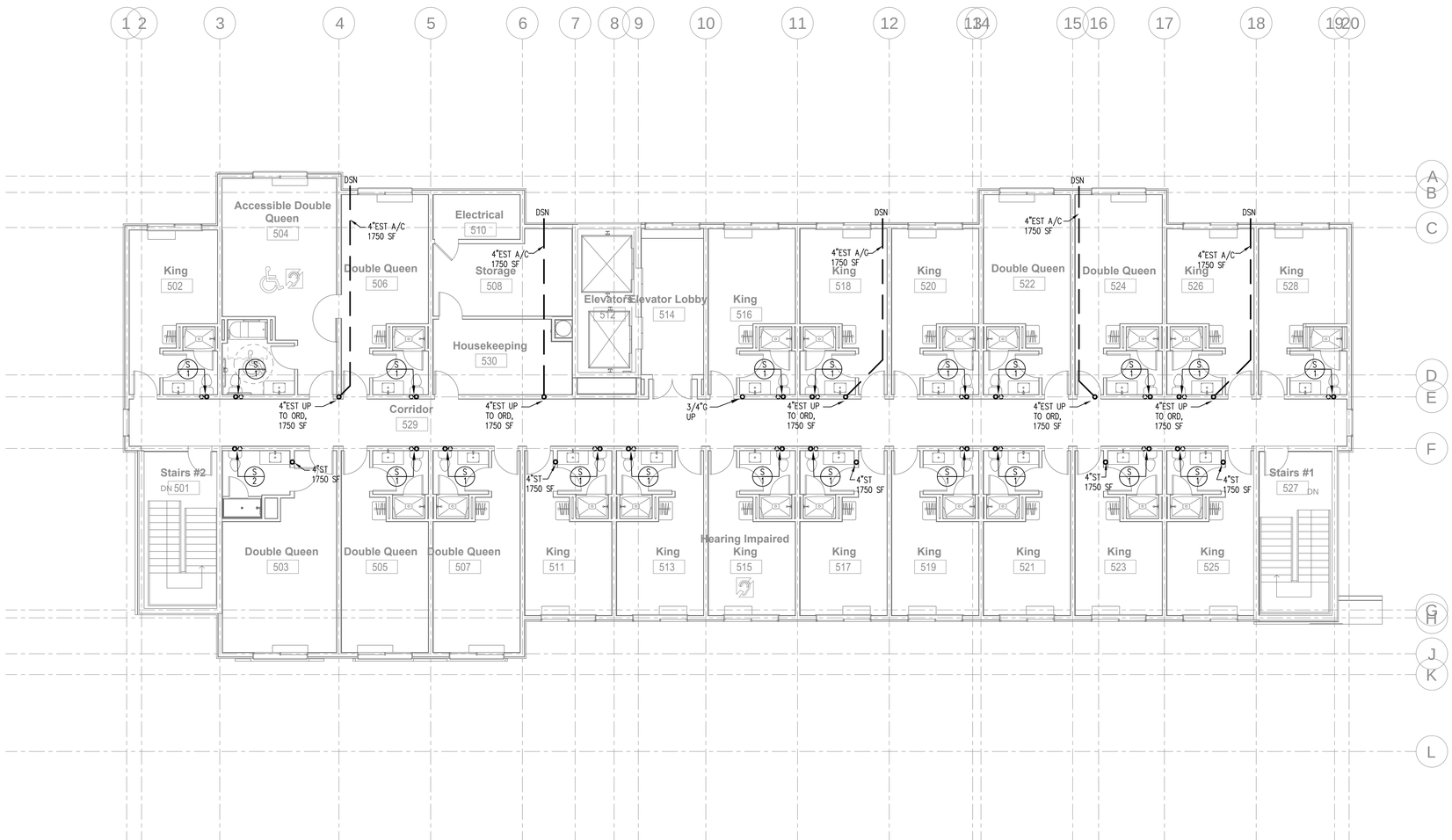
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SEE ENLARGED TYPICAL GUEST ROOM PLANS ON SHEETS P201 AND P202 FOR PIPING IN GUEST ROOMS.

SEE RISER DIAGRAMS ON SHEET P301 FOR PIPE SIZES AND ADDITIONAL INFORMATION.

1 P105 LEVEL 5 - PLUMBING

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

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LEVEL 5 - PLUMBING

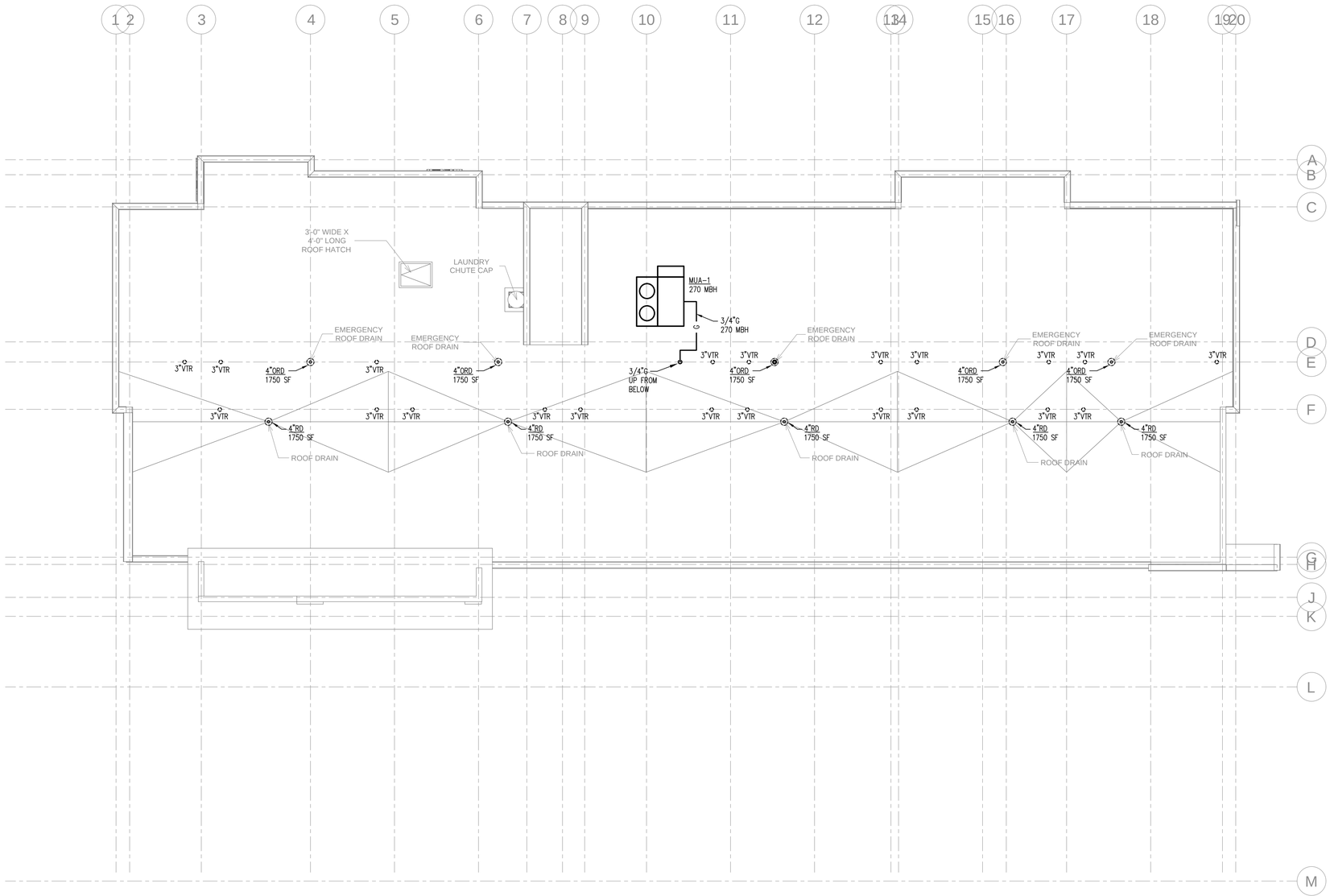
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1 P106 LEVEL ROOF - PLUMBING
SCALE: 1/8" = 1'-0"

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LEVEL ROOF - PLUMBING

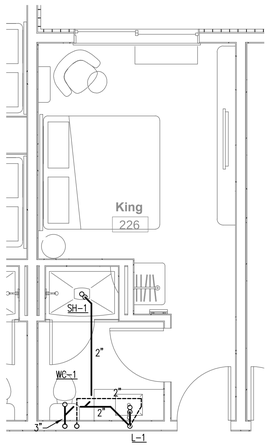
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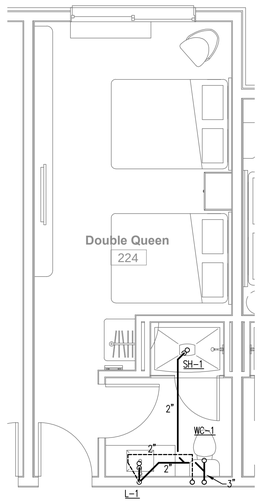
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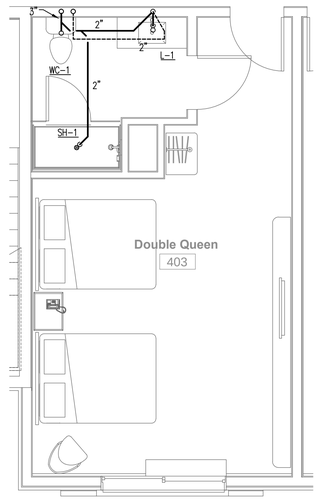
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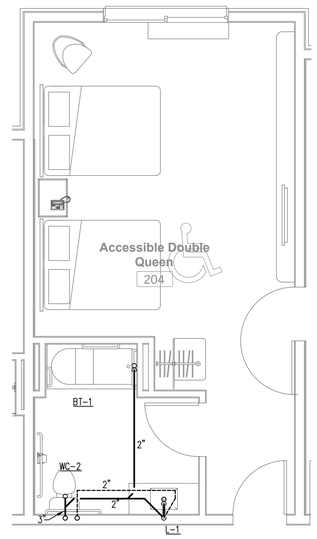
1 P201 **King**
SCALE: 1/4" = 1'-0"



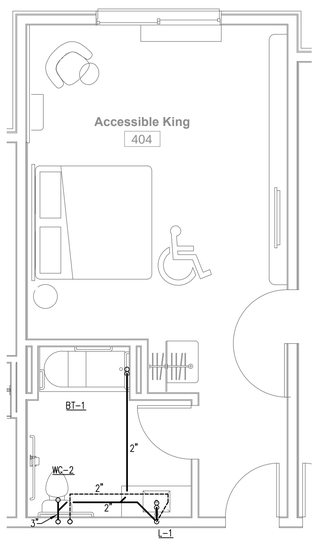
2 P201 **Double Queen**
SCALE: 1/4" = 1'-0"



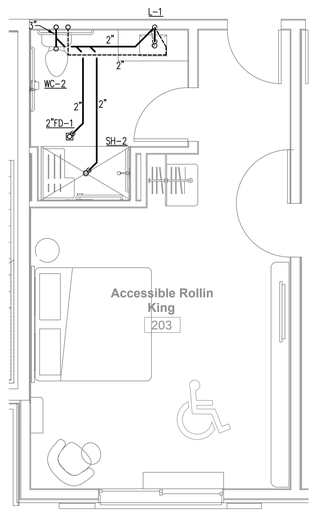
3 P201 **Double Queen Wide**
SCALE: 1/4" = 1'-0"



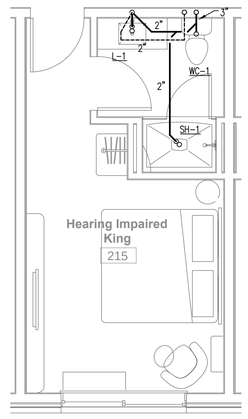
4 P201 **Accessible Double Queen**
SCALE: 1/4" = 1'-0"



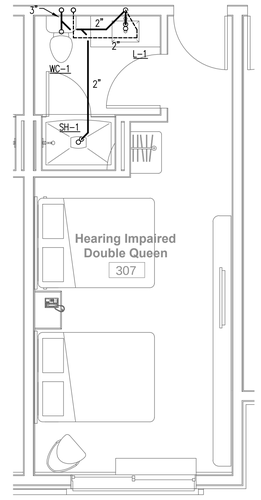
5 P201 **Accessible King**
SCALE: 1/4" = 1'-0"



6 P201 **Accessible Roll-in King**
SCALE: 1/4" = 1'-0"



7 P201 **Hearing Impaired King**
SCALE: 1/4" = 1'-0"



8 P201 **Hearing Impaired Double Queen**
SCALE: 1/4" = 1'-0"

GUEST ROOM PIPING LAYOUTS ARE TYPICAL FOR EACH TYPE OF GUEST ROOM INDICATED. SEE FLOOR PLANS FOR ROOM LOCATIONS AND ADDITIONAL INFORMATION.

SEE FIXTURE SCHEDULE ON SHEET P002 FOR SIZES OF SANITARY AND VENT CONNECTIONS TO INDIVIDUAL FIXTURES.

MINIMUM SIZE FOR SANITARY AND VENT PIPING BELOW GROUND SHALL BE 2".

ALL VENT PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED; ALL SANITARY PIPING SHOWN ON THIS SHEET SHALL BE RUN BELOW FLOORS, UNLESS OTHERWISE NOTED.

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REVISIONS		
No.	Date	Description

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

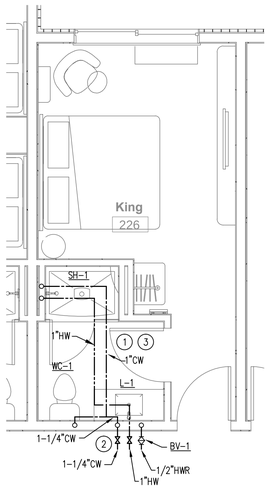
Drawing Title
PLUMBING
GUEST ROOM PLANS
SANITARY

Phase
Design Development

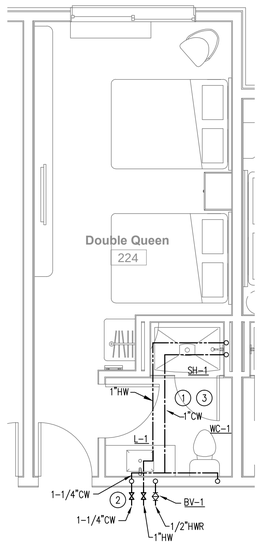
Project No. 16-111
Prepared by JDH
Checked by CED
Date September 8, 2017

Sheet No.
P201

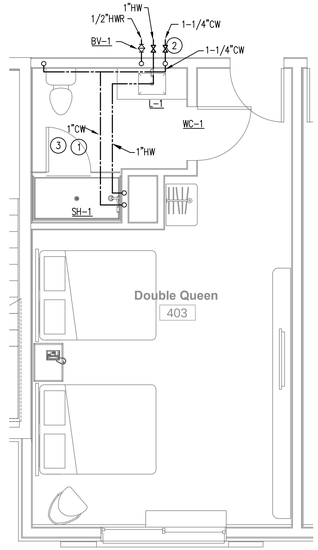
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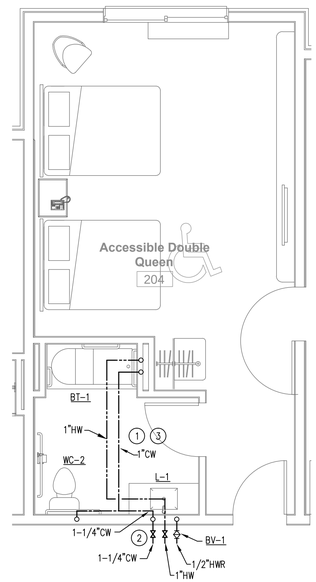
1 P202 **King**
SCALE: 1/4" = 1'-0"



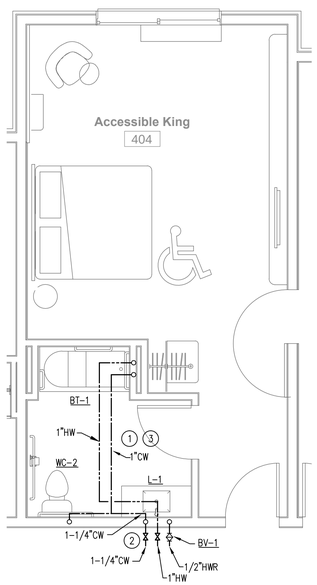
2 P202 **Double Queen**
SCALE: 1/4" = 1'-0"



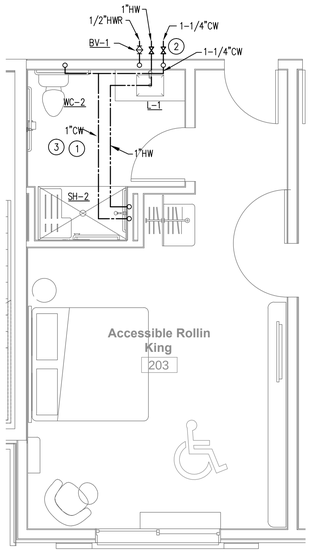
3 P202 **Double Queen Wide**
SCALE: 1/4" = 1'-0"



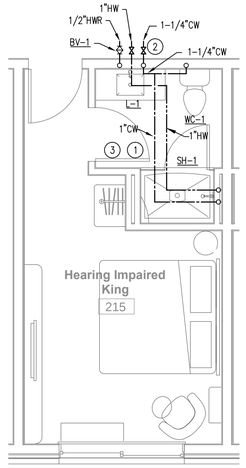
4 P202 **Accessible Double Queen**
SCALE: 1/4" = 1'-0"



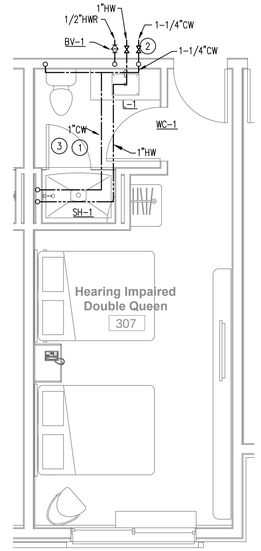
5 P202 **Accessible King**
SCALE: 1/4" = 1'-0"



6 P202 **Accessible Roll-in King**
SCALE: 1/4" = 1'-0"



7 P202 **Hearing Impaired King**
SCALE: 1/4" = 1'-0"



8 P202 **Hearing Impaired Double Queen**
SCALE: 1/4" = 1'-0"

KEYED NOTES THIS SHEET

1. REFER TO WATER SUPPLY RISER DIAGRAMS FOR ADDITIONAL PIPING ON 3RD FLOOR.
2. PROVIDE VALVES ABOVE CEILING ON LOWEST LEVEL
3. REFER TO WATER SUPPLY RISER DIAGRAMS FOR ROOM STACK SCHEMATIC. PROVIDE OFFSETS AS REQUIRED IF UNITS DO NOT STACK EXACTLY.

GUEST ROOM PIPING LAYOUTS ARE TYPICAL FOR EACH TYPE OF GUEST ROOM INDICATED. SEE FLOOR PLANS FOR ROOM LOCATIONS AND ADDITIONAL INFORMATION.

SEE FIXTURE SCHEDULE ON SHEET P002 FOR SIZES OF SANITARY AND VENT CONNECTIONS TO INDIVIDUAL FIXTURES.

MINIMUM SIZE FOR SANITARY AND VENT PIPING BELOW GROUND SHALL BE 2".

ALL VENT PIPING SHOWN ON THIS SHEET SHALL BE RUN ABOVE CEILINGS IN AREAS WITH CEILINGS AND SHALL BE RUN AS HIGH AS POSSIBLE IN AREAS WITHOUT CEILINGS, UNLESS OTHERWISE NOTED; ALL SANITARY PIPING SHOWN ON THIS SHEET SHALL BE RUN BELOW FLOORS, UNLESS OTHERWISE NOTED.

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Tru Hotel

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Drawing Title
PLUMBING
GUEST ROOM PLANS
WATER SUPPLY

Phase
Design Development

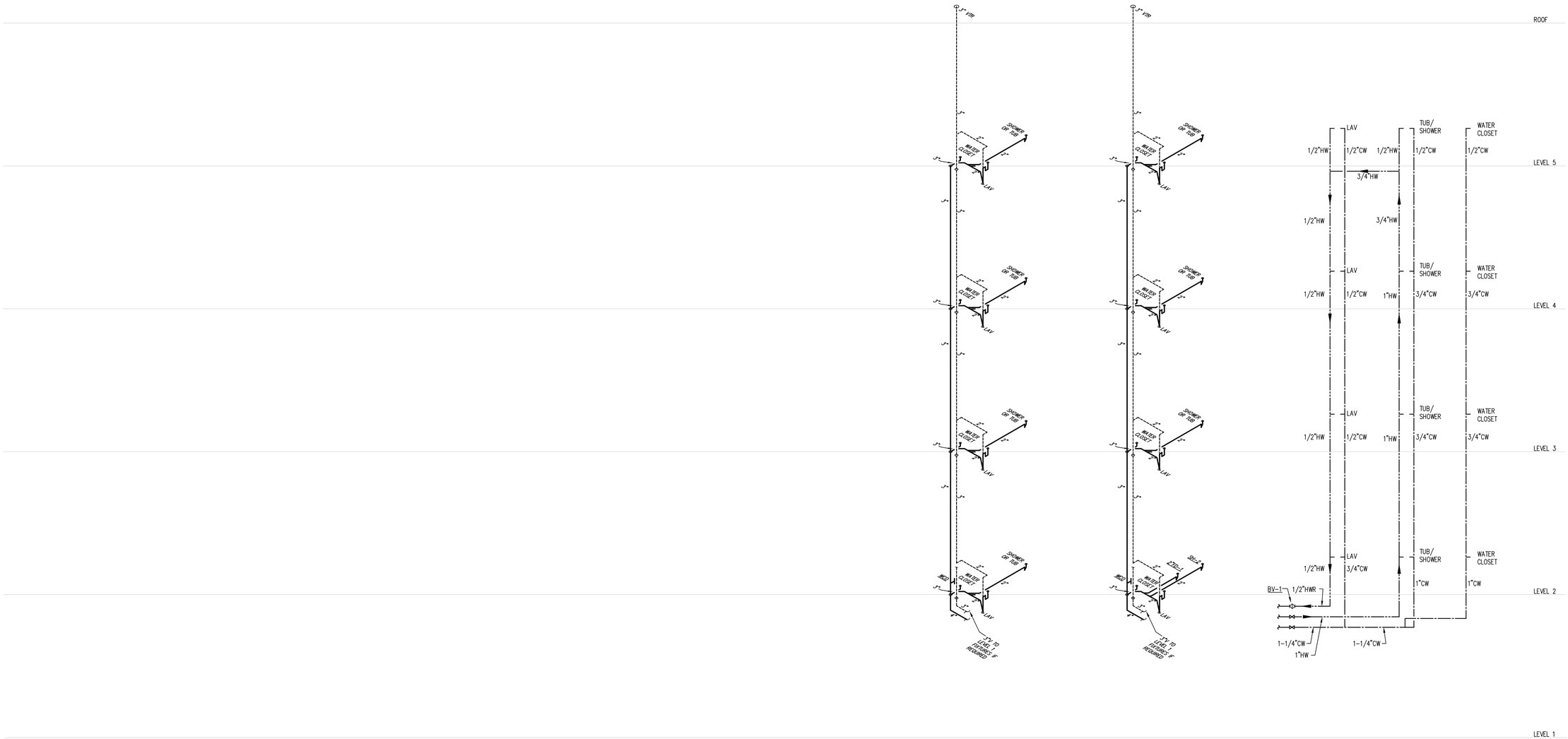
Project No. 16-111
Prepared by JDH
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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
PLUMBING
RISER DIAGRAMS

Phase
Design Development

Project No. 16-111
Prepared by JDH
Checked by CED
Date September 8, 2017

Sheet No.
P301

Released for
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Tru Hotel

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.

JUNCTION BOX SIZED PER NEC.

S — SINGLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER 1221, OR EQUAL.

S_2 — DOUBLE POLE SWITCH, 20 AMP, 120/277 VOLT, COOPER 1222, 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 J-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 INBOARD/OUTBOARD SWITCHING. MANUAL ON-AUTO OFF-30MIN. TIMEOUT.

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.

HF — MODULAR FURNITURE CONNECTION. PROVIDE DOUBLE-GANG BARRIERED J-BOX FOR POWER & TELE/DATA. EXTEND 1" E.C. TO ABOVE ACCESSIBLE CEILING FOR TELE/DATA. CONNECT POWER AS REQUIRED.

HR — 125/250V, 50A, 3-POLE, 4-WIRE GROUNDING RECEPTACLE FOR RANGE BLACK WITH STAINLESS STEEL COVER, MOUNT 18" A.F.F., COOPER 5754N OR EQUAL.

HD — 125/250V, 30A, 3-POLE, 4-WIRE GROUNDING RECEPTACLE FOR DRYER BLACK WITH STAINLESS STEEL COVER, MOUNT 18" A.F.F., COOPER 5744N OR EQUAL.

HH — CONNECTION FOR RANGE HOOD, VERIFY EXACT LOCATION WITH GENERAL CONTRACTOR.

HDW — CONNECTION FOR DISHWASHER UNDERCOUNTER.

D — CONNECTION FOR DISPOSER UNDER SINK.

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.

TELEPHONE 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.

TELEPHONE OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT ABOVE COUNTER BACKSPLASH OR AT HEIGHT NOTED, ALL OTHER THE SAME AS ABOVE.

TELEPHONE OUTLET MOUNTED IN "F" FOR FLOOR AND "C" FOR CEILING. FLOOR BOX SHALL BE CAST ALUMINUM WITH BRASS COVER.

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.

DATA OUTLET, DOUBLE GANG BOX WITH SINGLE GANG OPENING, MOUNT ABOVE COUNTER BACKSPLASH OR AT HEIGHT NOTED, ALL OTHER THE SAME AS ABOVE.

DATA OUTLET MOUNTED IN "F" FOR FLOOR AND "C" FOR CEILING. FLOOR BOX SHALL BE CAST ALUMINUM WITH BRASS COVER.

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.

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.

PARABOLIC 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.

STRIP FLUORESCENT LIGHT FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE. INDEPENDENTLY SUPPORT FIXTURE TO STRUCTURE UNLESS MOUNTED ON STRUCTURAL CEILING.

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.

ROUND, RECESSED OR SURFACE MOUNTED WALL WASH FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE. INDEPENDENTLY SUPPORT FIXTURE TO STRUCTURE UNLESS SURFACE MOUNTED TO A STRUCTURAL CEILING.

DIRECTIONAL LIGHT FIXTURE, ARROW INDICATES DIRECTION OF AIMING. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE. FIXTURE USUALLY MOUNTED ON TRACK, BUT IF NOT INDEPENENTLY SUPPORT TO STRUCTURE.

LIGHTING TRACK WITH NUMBER OF FIXTURES AS INDICATED. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

FIXTURE WITH INTEGRAL 1100 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.

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.

RECESSED IN-GROUND FLOOD LIGHT. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

BOLLARD SITE LIGHT. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

SINGLE ROUND LUMINAIRE POLE MOUNTED FIXTURE WITH ARM. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

SIMILAR TO ABOVE EXCEPT TWIN LUMINAIRE FIXTURE.

SINGLE SQUARE LUMINAIRE POLE MOUNTED FIXTURE WITH ARM. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

SIMILAR TO ABOVE EXCEPT TWIN LUMINAIRE FIXTURE.

SINGLE ROUND LUMINAIRE POST TOP MOUNTED FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

SINGLE SQUARE LUMINAIRE POST TOP MOUNTED FIXTURE. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

GROUND MOUNTED FLOOD LIGHT, SEE DETAIL FOR MOUNTING. LETTER INDICATES TYPE, SEE LIGHT FIXTURE SCHEDULE.

PUSHBUTTON.

CR — CARD READER.

K — KEYPAD.

F — FIRE ALARM MANUAL STATION, MOUNT 48"A.F.F.

FH — FIRE ALARM HORN-STROBE COMBINATION, 15CD, MOUNT 80" TO BOTTOM.

SH — FIRE ALARM STROBE, 15CD, MOUNT 80" TO BOTTOM.

FB — FIRE ALARM BELL, ALIGN WITH BOTTOM OF STOBES.

H — FIRE ALARM HORN, ALIGN WITH BOTTOM OF STROBES.

F — FIRE ALARM CHIME, ALIGN WITH BOTTOM OF STROBE.

FS — FIRE ALARM SPEAKER STROBE, 15CD, MOUNT 80" TO BOTTOM.

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 FIREMANS PHONE MOUNT 48"A.F.F.

SV — SOLENOID VALVE CONNECTION.

FIRE ALARM DUCT DETECTOR REMOTE INDICATING LIGHT.

D_{FS} — CONNECTION FOR FIRE/SMOKE DAMPER.

PIV — CONNECTION TO SPRINKLER POST INDICATOR VALVE.

SS — FIRE ALARM SYSTEM GUESTROOM COMBINATION SMOKE/CO DETECTOR. MOUNT 8" BELOW FINISHED CEILING (MAX). MONITOR WITH FIRE ALARM SYSTEM TO GIVE TROUBLE SIGNAL. SYSTEM SMOKE DETECTOR WITH SOUNDER BASE (520Hz TONE).

SL — FIRE ALARM SYSTEM GUESTROOM COMBINATION SMOKE/CO DETECTOR W/ STROBE LIGHT (177CD). MOUNT 8" BELOW FINISHED CEILING (MAX). MONITOR WITH FIRE ALARM SYSTEM TO GIVE TROUBLE SIGNAL. SYSTEM SMOKE DETECTOR WITH SOUNDER BASE (520Hz TONE).

RA — FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL

NONFUSED DISCONNECT SWITCH, SIZE AS INDICIATED 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.

LIGHTING AND/OR POWER PANEL BOARD, RECESSED MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.

DISTRIBUTION PANEL BOARD, SURFACE MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.

DISTRIBUTION PANEL BOARD, RECESSED MOUNTED WITH REQUIRED CODE CLEARANCE. SEE PANEL SCHEDULE FOR AMPERAGE.

PLYWOOD TELEPHONE OR DATA BACKBOARD. SIZE AS INDICATED ON THE RESPECTIVE RISER DIAGRAM.

WALL MOUNTED UTILITY METER.

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.

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 COPIED 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 POLYETRA-FLUOROETHYLENE TAPE. AAPPROVED 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 CONDUCTORS INSTALLED IN VERTICAL RACEWAYS SHALL BE SUPPORTED AT INTERVALS AS REQUIRED PER NEC ARTICLE 300-19.

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

H. 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
DOUBLE POLE 20 AMP	COOPER 1222
THREE WAY 20 AMP	COOPER 1223
FOUR WAY 20 AMP	COOPER 1224
SINGLE POLE/PILOT 20 AMP	COOPER 1221PL*
DOUBLE POLE/PILOT 20 AMP	COOPER 1222PL*
THREE WAY/PILOT 20 AMP	COOPER 1223PL*
SINGLE POLE/KEY 20 AMP	COOPER 1221L
DOUBLE POLE/KEY 20 AMP	COOPER 1222L
THREE WAY/KEY 20 AMP	COOPER 1223L
FOUR WAY/KEY 20 AMP	COOPER 1224L

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
15 AMP DUPLEX-IG	COOPER IG5252
20 AMP DUPLEX-IG	COOPER IG5362
15 AMP DUPLEX-TVSS	COOPER 5262S
20 AMP DUPLEX-TVSS	COOPER 5362S
15 AMP DUPLEX-IG/TVSS	COOPER IG5252S
20 AMP DUPLEX-IG/TVSS	COOPER IG5362S
15 AMP DUPLEX-CORROSION	COOPER 52CM52
20 AMP DUPLEX-CORROSION	COOPER 53CM62

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: LIGHTING CONTROLS

A. FURNISH AND INSTALL AN ELECTRONIC TIME CONTROLLER WHERE INDICATED. CONTROLLER SHALL BE CAPABLE OF SWITCHING 40 AMPERES PER POLE CONTINUOUSLY AT 120 VOLTS AND SHALL BE 5PST (DPST, 3PST, DPTDT, SPDT, AS REQUIRED).

B. LIGHTING CONTACTORS SHALL SWITCH A LOAD AT 120 VOLTS, 60 HZ AND SHALL HAVE THE NUMBER OF POLES INDICATED ON THE DRAWINGS. THE CONTACTOR SHALL BE CONTINUOUSLY RATED 20 AMPERES PER POLE FOR ALL TYPES OF BALLAST AND TUNGSTEN LIGHTING AND RESISTANCE LOADS.

C. ALL LIGHTING CONTACTORS SHALL BE ELECTRICALLY HELD AND HAVE A NEMA 1 ENCLOSURE UNLESS OTHERWISE NOTED.

PART 10: FIRE ALARM SYSTEM

A. SYSTEM SHALL BE A CENTRALIZED, ANALOG, ADDRESSABLE, FULLY ELECTRONICALLY SUPERVISED (INCLUDING AUXILIARY SYSTEMS INTERCONNECT WIRING) SYSTEM LISTED BY UL 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. SYSTEM SHALL BE SIMPLEX, NOTIFIER, EDWARDS OR EQUAL, AS ACCEPTED BY THE ENGINEER. SYSTEM SHALL HAVE A 24HR MINIMUM BATTERY BACKUP. OR 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

SURGE PROTECTION DEVICE SPECIFICATION

A. SPD SHALL COMPLY WITH THE FOLLOWING STANDARDS:
   1. UNDERWRITERS LABORATORIES, INC. ANSI/UL 1449, THIRD EDITION–SURGE PROTECTIVE DEVICES.
   2. IEEE STANDARD C62.11–2012;C62.33–1982;C62.41–2002; AND C62.45–2002.
   3. IEEE STANDARD 1100–2005 8.6.1
   4. NATIONAL ELECTRICAL CODE ARTICLE 240–21 (EQUIPMENT COMPLYING WITH TAP CONDUCTOR RULES) AND ARTICLE 110–9 (INTERRUPTING CAPACITY).
   5. ISO 9001 CERTIFIED MANUFACTURER
B. SPECIFICATIONS FOR THE LIFE OF THE UNIT SHALL BE INCLUDED IN TERMS OF THE NUMBER OF "HITS" EACH UNIT CAN WITHSTAND IN THE LINE–TO–NEUTRAL MODE AT SPECIFIC SURGE CURRENT LEVELS BEFORE UNIT FAILURE UTILIZING THE CATEGORY C2 8X20 MICROSECOND CURRENT WAVEFORM TEST. THE SPD SHALL BE CAPABLE OF SURVIVING 20,000 REPETITIVE SURGE EVENTS BY ANSI/IEEE C62.41, CATEGORY Chigh (10kA) IMPULSES WITHOUT FAILURE OR DEGRADATION IN PERFORMANCE CHARACTERISTICS OF MORE THAN 10%.
C. THE PER PHASE KILOAMPS (kA) RATINGS FOR EACH SPD DEVICE SHALL BE INCLUDED ON THE SUBMITTALS. THE MINIMUM kA RATINGS FOR THE FOLLOWING SHALL APPLY:
   1. SERVICE ENTRANCE SWITCHBOARDS 240kA (SSI # LSEDxxx–56)
   2. DISTRIBUTION 120–160kA (SSI # SDLDxxx–56)
   3. PANEL 80–120kA (SSI # CKLBxxx–56)
D. SUBMIT TEST RESULTS (GRAPHS) FOR THE APPROPRIATE IEEE TESTS FOR ALL MODELS SUBMITTED SHOWING ACTUAL LET THROUGH VOLTAGES (USING 6" LEAD LENGTH AS MEASURED FROM THE POINT WHERE THE CONNECTION CONDUCTORS EXIT THE SPD ENCLOSURE).
   1. LEAD LENGTH MUST BE SPECIFIED AS WELL AS ALL APPLICABLE TEST PARAMETERS NECESSARY TO PERFORM A COMPLETE EVALUATION OF TEST RESULTS.
E. UNITS SHALL CONSIST OF PARALLEL CONNECTIONS ONLY. SERIES ELEMENTS ARE NOT ACCEPTABLE.
F. THE TRANSIENT SUPPRESSION DEVICE MUST BE UL LISTED UNDER THE UL 1449, 3RD EDITION, AS A COMPLETE ENTITY. LISTED UL LET THROUGH VOLTAGE RATING MUST BE CLEARLY STATED.
G. UNIT SHALL EMPLOY METAL OXIDE VARISTORS AS THE PRIMARY SUPPRESSION TECHNOLOGY.
H. SYSTEM VOLTAGES:
   1. 480Y/277V, 3ø, 4 WIRE
   2. 480V, 3ø, 3 WIRE
   3. 208Y/120V, 3ø, 4 WIRE
   4. 208V, 3ø, 3 WIRE
   5. 120/240V, HI–LEG (PHASE B), 3ø, 4 WIRE
I. BASIS OF DESIGN PRODUCT IS SURGE SUPPRESSION INCORPORATED. EQUAL PRODUCTS MAY BE CONSIDERED BY ONE OF THE FOLLOWING MANUFACTURERS LISTED BELOW
   1. LIEBERT
   2. CURRENT TECHNOLOGY
   3. SQUARE–D BY SCHNEIDER ELECTRIC
   4. APT
J. ADDITIONAL FEATURES
   1. LED INDICATORS SHALL BE UTILIZED TO INDICATE FAILURE OF PROTECTION MODULES.
   2. ALL UNITS SHALL BE ENCLOSED IN A WALL MOUNTABLE HEAVY DUTY ENCLOSURE EQUIVALENT TO A NEMA 1 RATING FOR INTERIOR INSTALLATIONS. ALL EXTERIOR UNITS SHALL BE ENCLOSED IN A WALL MOUNTABLE HEAVY DUTY ENCLOSURE EQUIVALENT TO A NEMA 12.
   3. 15 YEAR UNCONDITIONAL WARRANTY.
K. UNITS SHALL BE INSTALLED OF THE SAME VOLTAGE RATING AS THE INTENDED PROTECTED EQUIPMENT.
L. INSTALL UNITS WITH SHORTEST POSSIBLE LEAD LENGTH (MAXIMUM OF 18" FOR TYPE 1 UNITS, MAXIMUM OF 6" FOR TYPE 2 UNITS). WHERE CONDUIT IS NECESSARY TO INSTALL LEAD CONNECTION CONDUCTORS, LEADS SHALL BE INSTALLED IN RIGID NON–METALLIC CONDUIT AND SHALL NOT CONTAIN UNNECESSARY BENDS OR LOOPS.
M. INSTALL ALL TYPE 1 AND 2 UNITS ON OR IMMEDIATELY ADJACENT TO THE DISTRIBUTION SECTION OF THE SERVICE GEAR ENCLOSURES WHERE THE CONNECTION LEAD LENGTH CAN BE KEPT AS SHORT AS POSSIBLE BUT ALSO SO THAT THE INSTALLATION WILL NOT INTERFERE WITH REMOVAL OF SERVICE GEAR PANELS. PROVIDE A DEDICATED 30A,3–POLE CIRCUIT BREAKER IN SERVICE GEAR FOR CONNECTION TO EACH UNIT.
N. INSTALL ALL TYPE 3 UNITS IMMEDIATELY ADJACENT TO THE PANEL NCLOSURES.
O. SPD SHALL INCLUDE A SHORT CIRCUIT RATING AT ABOVE THE FAULT CURRENT AVAILABLE AT THE SERVICE ENTRANCE POINT.

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REVISIONS		
No.	Date	Description

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

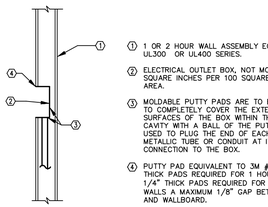
Drawing Title
Electrical Details

Phase
Design Development

Project No. 16-111
Prepared by KSM
Checked by EDB
Date September 8, 2017

Sheet No. E002

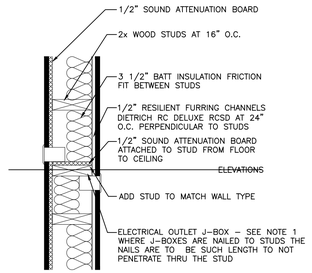
Released for
Review



① 1 OR 2 HOUR WALL ASSEMBLY EQUIVALENT TO UL300 OR UL400 SERIES.
② ELECTRICAL OUTLET BOX, NOT MORE THAN 100 SQUARE INCHES PER 100 SQUARE FEET WALL AREA.
③ MOLDABLE PUTTY PADS ARE TO BE INSTALLED TO COMPLETELY COVER THE EXTERIOR SURFACES OF THE BOX WITHIN THE STUD CAVITY WITH A BALL OF THE PUTTY MATERIAL USED TO PLUG THE END OF EACH ELECTRICAL METALLIC TUBE OR CONDUIT AT ITS CONNECTION TO THE BOX.
④ PUTTY PAD EQUIVALENT TO 3M #MPP–4S, 1/8" THICK PADS REQUIRED FOR 1 HOUR WALLS 1/4" THICK PADS REQUIRED FOR 2 HOUR WALLS A MAXIMUM 1/8" GAP BETWEEN BOX AND WALLBOARD.

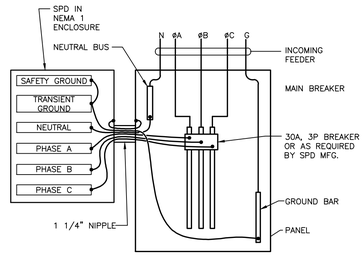
NOTE: THIS DETAIL APPLIES TO 1 AND 2 HOUR WALL ASSEMBLIES WITH 4"x4" FLUSH ELECTRICAL BOXES ON OPPOSITE SIDE OF WALLS THAT HAVE LESS THAN 24" SEPARATION BETWEEN THEM. BOXES NOT PERMITTED BACK–TO–BACK.

13 / E002 **PENETRATION DETAIL**
NO SCALE



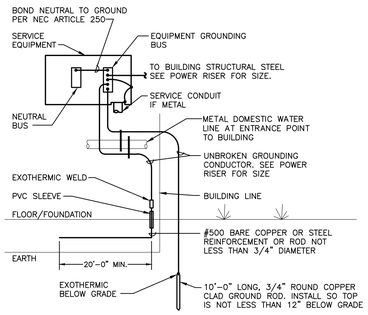
NOTES:
1. ELECTRICAL OUTLET BOXES AND SIMILAR BOXES FOR T.V., PHONE, ETC. IN PARTY WALLS MUST BE STEEL AND NOT OVER 16" SQUARE. SUCH BOXES ARE TO BE SEALED WITH 3M MPP–4S FIRE BARRIER PUDDY PAD OR EQUAL. STACK MULTIPLE BOXES VERTICALLY WHEN ON SAME SIDE OF WALL.
2. CONTRACTOR TO VERIFY ACCEPTABILITY OF THIS DETAIL WITH LOCAL JURISDICTION'S BUILDING INSPECTOR.

12 / E002 **OUTLET J-BOX OFFSET DETAIL**
NO SCALE



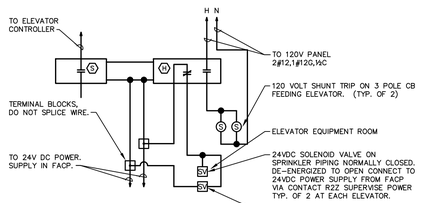
NOTES:
1. ALL WIRING SHALL BE #8 AWG.
2. AVOID SHARP BENDS IN WIRES. ALL WIRE LENGTHS SHALL NOT EXCEED 18" (WHERE POSSIBLE).
3. SEE SPD SPECIFICATION FOR EXACT TYPE (H1, H2, L1, L2) FOR LOCATION AS INDICATED ON THE POWER RISER DIAGRAM.

11 / E002 **SPD CONNECTION DETAIL**
NO SCALE



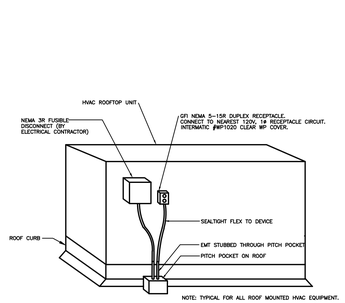
RESISTANCE TO GROUND SHALL BE LESS THAN 25 OHMS

10 / E002 **SERVICE GROUNDING DETAIL**
NO SCALE

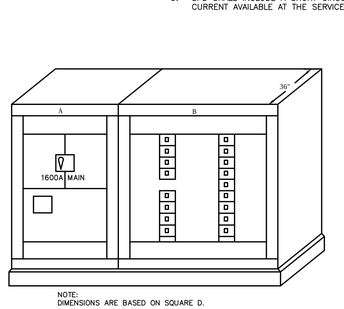


NOTES:
1. SMOKE DETECTOR SHALL, UPON ALARM, RECALL ELEVATOR TO THE DESIGNATED FIRST FLOOR, AND LOCK OUT ELEVATOR VIA ELEVATOR EQUIPMENT. HEAT DETECTOR SHALL BE FIXED TYPE WITH 135° SETTING AND WHEN IN ALARM AND ACTIVATES 120V SHUNT–TRIP TO ELEVATOR FEEDER BREAKER WITHIN PANEL. ALL DISCONNECTS SERVING ELEVATOR MOTOR CONTROLLER AND ELEVATOR CAB LIGHTS SHALL BE NEMA 3R CONSTRUCTION WITH EMBOSSED CONDUIT HUBS.
2. HEAT DETECTOR WITHIN ELEVATOR EQUIPMENT ROOM SHALL BE CONNECTED TO A DEDICATED FIRE ALARM ZONE SERVING THIS ROOM ONLY. THE SMOKE DETECTOR SHALL BE CONNECTED TO A SEPARATE DEDICATED FIRE ALARM ZONE.

9 / E002 **ELEVATOR FIRE ALARM SHUTDOWN CONTROL SCHEMATIC**
NO SCALE

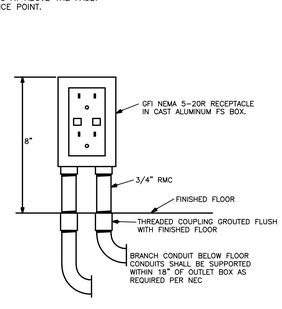


8 / E002 **ROOFTOP RECEPTACLE DETAIL**
NO SCALE

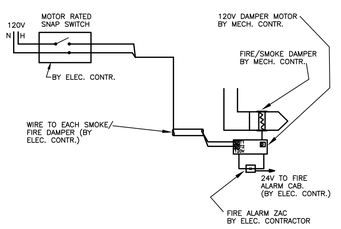


NOTE:
DIMENSIONS ARE BASED ON SQUARE D.

7 / E002 **ELEVATION - MSB**
NO SCALE

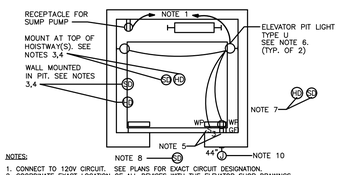


6 / E002 **STUBBED-UP RECEPTACLE DETAIL**
NO SCALE



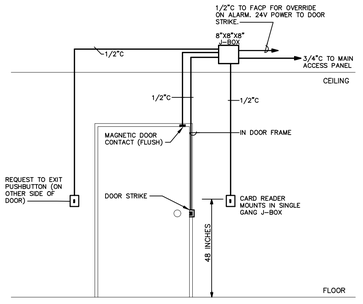
NOTES:
1. ALL FIRE/SMOKE DAMPERS SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ALL FIRE ALARM WIRING INSTALLED BY ELECTRICAL CONTRACTOR. 120V WIRING TO DAMPER PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.

5 / E002 **SMOKE/FIRE DAMPER WIRING DETAIL**
NO SCALE



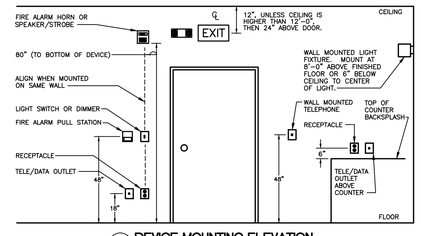
NOTES:
1. CONNECT TO 120V CIRCUIT. SEE PLANS FOR EXACT CIRCUIT DESIGNATION.
2. COORDINATE EXACT LOCATION OF ALL DEVICES WITH THE ELEVATOR SHOP DRAWINGS.
3. MOUNT SMOKE AND HEAT DETECTORS WITHIN 2'–0" OF SPRINKLER HEADS. SMOKE DETECTORS SHALL, UPON ALARM, RE–CALL ELEVATOR TO THE APPROPRIATE LEVEL, AND LOCK OUT ELEVATOR VIA ELEVATOR EQUIPMENT. HEAT DETECTORS SHALL CONTROL THE OPERATION OF THE SPRINKLER PIPING SOLENOID VALVE(S) AND THE SHUNTING OF MAIN ELEVATOR POWER. SEE ELEVATOR FIRE ALARM SHUTDOWN CONTROL SCHEMATIC. HEAT DETECTORS SHALL HAVE A LOWER RESPONSE TIME INDEX (135°F) COMPARED TO THE SPRINKLER HEADS IN THE HOISTWAY.
4. WHERE HOISTWAY IS NOT SPRINKLERED, DO NOT PROVIDE SMOKE OR HEAT DETECTORS IN THE HOISTWAY.
5. LOCATE PIT LIGHT SWITCH AND CONVENIENCE RECEPTACLE ADJACENT TO ACCESS DOOR AND AT TOP ACCESS (TOP FLOOR). (2) TOTAL RECEPTS AND (4) LIGHTS, (2) SWITCHES. LIGHTS SHALL NOT BE CONNECTED TO THE LOAD SIDE TERMINALS OF THE
6. CONVENIENCE RECEPTACLE.
7. MOUNT CENTERED IN ELEVATOR MACHINE ROOM.
8. MOUNT IN ELEVATOR LOBBY AT EACH LEVEL WITHIN 15'–0" OF DOOR.
9. THE SMOKE DETECTOR(S) LOCATED IN THE DESIGNATED ELEVATOR RECALL LOBBY(S) SHALL ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE REMAINING ELEVATOR LOBBIES SHALL ACTUATE THE SECOND ELEVATOR CONTROL CIRCUIT. THE SMOKE DETECTORS IN THE HOISTWAY(S) AND ELEVATOR MACHINE ROOM(S) SHALL ACTUATE THE THIRD ELEVATOR CONTROL CIRCUIT, AND WHERE A MACHINE ROOM IS LOCATED AT THE DESIGNATED LEVEL, THAT ELEVATOR MACHINE ROOM SMOKE DETECTOR SHALL ALSO ACTUATE THE FIRST ELEVATOR CONTROL CIRCUIT.
10. PROVIDE FLUSH JUNCTION BOX FOR TWO–WAY COMMUNICATIONS BETWEEN EACH ELEVATOR LANDING PER 2012 IBC 1007.8.
11. PROVIDE 1" CONDUIT AND CONTROL CABLING PER ELEVATOR MANUFACTURER REQUIREMENTS FROM ELEVATOR CONTROLS, TO ELEVATOR INDICATOR LIGHT.

4 / E002 **ELEVATOR HOISTWAY DETAIL**
NO SCALE



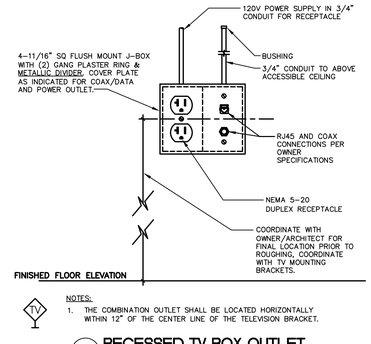
NOTES:
NCSBC ARTICLE 1008.1.3.4"
1. A SENSOR SHALL BE PROVIDED ON THE EGRESS SIDE ARRANGED TO DETECT AN OCCUPANT APPROACHING THE DOORS. THE DOORS SHALL BE ARRANGED TO UNLOCK BY A SIGNAL FROM OR LOSS OF POWER TO THE SENSOR.
2. LOSS OF POWER TO THAT PART OF THE ACCESS CONTROL SYSTEM WHICH LOCK THE DOORS SHALL AUTOMATICALLY UNLOCK THE DOORS.
3. THE DOORS SHALL BE ARRANGED TO UNLOCK FROM A MANUAL UNLOCKING DEVICE LOCATED 40 INCHES TO 48 INCHES (1016MM TO 1219MM) OF THE SECURED DOORS. READY ACCESS SHALL BE PROVIDED TO THE MANUAL UNLOCKING DEVICE AND THE DEVICE SHALL BE CLEARLY IDENTIFIED BY A SIGN THAT READS "PUSH TO EXIT." WHEN OPERATED, THE MANUAL UNLOCKING DEVICE SHALL RESULT IN DIRECT INTERRUPTION OF POWER TO THE LOCK–INDEPENANT OF THE ACCESS CONTROL SYSTEM ELECTRONICS – AND THE DOORS SHALL REMAIN UNLOCKED FOR A MINIMUM OF 30 SECONDS.
4. ACTIVATION OF THE BUILDINGS FIRE ALARM SYSTEM, IF PROVIDED, SHALL AUTOMATICALLY UNLOCK THE DOORS, AND THE DOORS SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET.
5. ACTIVATION OF THE BUILDING AUTOMATIC SPRINKLER OR FIRE DETECTION SYSTEM, IF PROVIDED, SHALL AUTOMATICALLY UNLOCK THE DOORS. THE DOORS SHALL REMAIN UNLOCKED UNTIL THE FIRE ALARM SYSTEM HAS BEEN RESET.
6. ENTRANCE DOORS IN BUILDINGS WITH AN OCCUPANCY IN GROUP A,B,E, OR M SHALL NOT BE SECURED FROM THE EGRESS SIDE DURING PERIODS THAT THE BUILDING IS OPEN TO THE GENERAL PUBLIC.

3 / E002 **CARD READER/DOOR ALARM DETAIL**
NO SCALE



2 / E002 **DEVICE MOUNTING ELEVATION**
NO SCALE

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



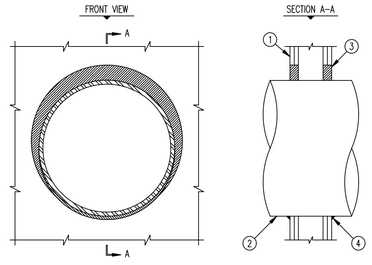
NOTES:
1. THE COMBINATION OUTLET SHALL BE LOCATED HORIZONTALLY WITHIN 12" OF THE CENTER LINE OF THE TELEVISION BRACKET.

1 / E002 **RECESSED TV BOX OUTLET**
NO SCALE

U.L. SYSTEM NO. WL1054

METAL PIPE THROUGH GYPSUM WALL ASSEMBLY

F RATING = 1-HR. OR 2-HR.
T RATING = 0-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = LESS THAN 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 30" DIAMETER STEEL PIPE (SCHEDULE 10 OR HEAVIER).
   B. MAXIMUM 6" DIAMETER COPPER PIPE.
   C. MAXIMUM 6" DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" DIAMETER STEEL EMT.
3. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
4. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT POINT OF CONTACT.

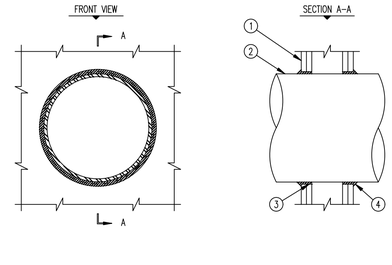
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 32-1/4".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2-1/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL1085

EMT THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F RATING = 1-HR. AND 2-HR.
T RATING = 0-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 12" DIAMETER STEEL PIPE (SCHEDULE 20 OR HEAVIER).
   B. MAXIMUM 12" DIAMETER CAST IRON PIPE.
   C. MAXIMUM 6" DIAMETER COPPER PIPE.
   D. MAXIMUM 6" DIAMETER EMT.
   E. MAXIMUM 6" DIAMETER STEEL CONDUIT.
3. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT FORCED INTO ANNULAR SPACE TO MAXIMUM EXTENT.
4. MINIMUM 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT PIPE/GYPSUM WALLBOARD INTERFACE.

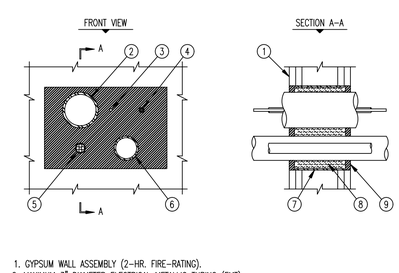
NOTE : ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL8004

MULTIPLE METAL PIPE AND CABLE THROUGH 2-HR. GYPSUM WALL

F RATING = 2-HR.
T RATING = 1/4-HR.
L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
L RATING AT 400°F = 4 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (2-HR. FIRE-RATING).
2. MAXIMUM 3" DIAMETER ELECTRICAL METALLIC TUBING (EMT).
3. MAXIMUM 25 PAIR NO. 24 AWG (OR SMALLER) TELEPHONE CABLES.
4. MAXIMUM 3/C NO. 10 AWG NM (WITH GROUND) POWER CABLE WITH PVC INSULATION.
5. MAXIMUM 300 KCMIL (OR SMALLER) POWER CABLE WITH PVC INSULATION & NYLON JACKET.
6. MAXIMUM 2" DIAMETER STEEL PIPE, COPPER PIPE, EMT, OR STEEL CONDUIT.
7. NO. 8 STEEL WIRE MESH, 4-3/4" LONG (OR STANDARD METAL DRYWALL TRACK SCREWED SECURELY IN PLACE) CENTERED IN OPENING.
8. MINIMUM 4" THICKNESS MINERAL WOOL (MIN. 4 PCF DENSITY) TIGHTLY PACKED.
9. MIN. 1/2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.

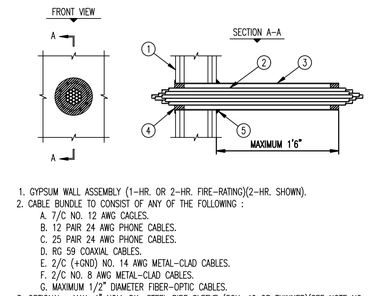
NOTES : 1. MAXIMUM AREA OF OPENING = 96 SQUARE INCHES WITH A MAX. DIM. OF 12".
2. DISTANCE BETWEEN ITEMS = MINIMUM 1-3/4", MAXIMUM 7".
3. DISTANCE FROM EDGE OF OPENING = MINIMUM 1/2", MAXIMUM 7". (EXCEPTION: 300 KCMIL POWER CABLE MUST BE MINIMUM 1-1/2" FROM EDGE OF OPENING.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL3065

CABLE BUNDLE THROUGH 1-HR. OR 2-HR. FIRE-RATED GYPSUM WALL

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 0-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. CABLE BUNDLE TO CONSIST OF ANY OF THE FOLLOWING :
   A. 7/C NO. 12 AWG CAGLES.
   B. 12 PAIR 24 AWG PHONE CABLES.
   C. 25 PAIR 24 AWG PHONE CABLES.
   D. RG 59 COAXIAL CABLES.
   E. 2/C (+GND) NO. 14 AWG METAL-CLAD CABLES.
   F. 2/C NO. 8 AWG METAL-CLAD CABLES.
   G. MAXIMUM 1/2" DIAMETER FIBER-OPTIC CABLES.
3. OPTIONAL : MAX. 4" NOM. DIA. STEEL PIPE SLEEVE (SCH. 40 OR THINNER)(SEE NOTE NO. 4).
4. HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT :
   A. MINIMUM 5/8" DEPTH OF SEALANT FOR A 1-HR. FIRE-RATING.
   B. MINIMUM 1-1/4" DEPTH OF SEALANT FOR A 2-HR. FIRE-RATING.
5. SEE NOTE NO. 4 BELOW.

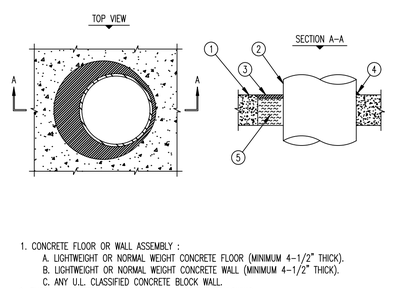
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 4-1/2".
2. CABLES TO FILL MAXIMUM 33% OF AREA OF OPENING.
3. ANNULAR SPACE = MINIMUM 1/4", MAXIMUM 3/4".
4. STEEL SLEEVE MAY BE FLUSH WITH WALL SURFACE OR EXTEND UP TO 18" BEYOND WALL SURFACE IN ANY COMBINATION. WHEN SLEEVE IS FLUSH WITH WALL, APPLY HILTI FS-ONE FIRESTOP SEALANT ONTO WALL SURFACE. WHEN SLEEVE IS EXTENDED BEYOND ONE OR BOTH SIDES OF WALL, APPLY 1/2" CROWN HILTI FS-ONE FIRESTOP SEALANT TO WALL/SLEEVE INTERFACE.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. CAJ1149

METAL PIPE THROUGH CONCRETE FLOOR, WALL, OR BLOCK WALL

F RATING = 2-HR.
T RATING = 0-HR.



1. CONCRETE FLOOR OR WALL ASSEMBLY :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR (MINIMUM 4-1/2" THICK).
   B. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL (MINIMUM 4-1/2" THICK).
   C. ANY U.L. CLASSIFIED CONCRETE BLOCK WALL.
2. THROUGH PENETRANTS TO INCLUDE ANY OF THE FOLLOWING :
   A. MAXIMUM 10" NOMINAL DIAMETER STEEL PIPE.
   B. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   C. MAXIMUM 4" NOMINAL DIAMETER EMT.
   D. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
3. MIN. 1/2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
4. MIN. 1/2" BEAD HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
5. MINIMUM 4" THICK MINERAL WOOL (MIN. 4 PCF DENSITY) (SEE NOTE NO. 4).

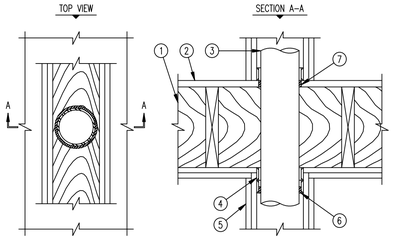
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 12".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2".
3. WALLS REQUIRE 1/2" DEPTH OF SEALANT FLUSH WITH BOTH SIDES.
4. IF MAXIMUM PIPE SIZE IS 4" NOM. DIA., A MINIMUM 3" THICKNESS OF MINERAL WOOL MAY BE USED.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. FC1009

METAL PIPE/CONDUIT THROUGH 1-HR. OR 2-HR. WOOD FLOOR ASSEMBLY

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = LESS THAN 1 CFM/SQ. FT.
T RATING = 1-HR. OR 2-HR. L RATING AT 400°F = 4 CFM/SQ. FT.



1. WOOD FLOOR ASSEMBLY : DESIGN NO. L500 SERIES IN THE U.L. FIRE RESISTANCE DIRECTORY.
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OR LUMBER, PLYWOOD, OR FLOOR TOP MIXTURE.
3. PENETRATING ITEM TO BE ONE OF THE FOLLOWING :
   A. MAXIMUM 4" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 40 OR HEAVIER).
   B. MAXIMUM 4" NOMINAL DIAMETER STEEL CONDUIT.
   C. MAX. 4" NOM. DIA. NOM. OR STANDARD COPPER WATER TUBE (TYPE L OR HEAVIER).
   D. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE.
   E. MAXIMUM 4" NOMINAL DIAMETER EMT.
4. TOP PLATE .
5. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
6. PROVIDE A GENEROUS BEAD OF HILTI FS 601 ELASTOMERIC FIRESTOP SEALANT OR HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT AT THE TOP PLATE.
7. MIN. 3/4" DEPTH HILTI FS 601 ELASTOMERIC FIRESTOP SEALANT OR FS-ONE FIRESTOP SEALANT.

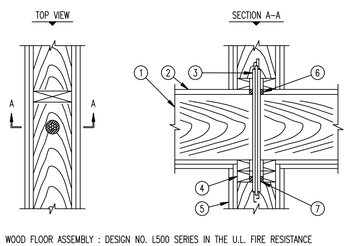
NOTE : ANNULAR SPACE = MINIMUM 1/8", MAXIMUM 3/4".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. FC3012

CABLE/CABLE BUNDLE THROUGH 1-HR. OR 2-HR. WOOD FLOOR ASSEMBLY

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 1-HR. OR 2-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



1. WOOD FLOOR ASSEMBLY : DESIGN NO. L500 SERIES IN THE U.L. FIRE RESISTANCE DIRECTORY.
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OR LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
3. MAXIMUM 2" DIAMETER CABLE BUNDLE MAY CONSIST OF ANY OF THE FOLLOWING :
   A. RG 59 COAXIAL CABLE.
   B. MAXIMUM 8/C NO. 22 AWG TELEPHONE CABLE.
   C. MAXIMUM 3/C NO. 10 AWG CABLE (ROMEX).
   D. MAXIMUM 3/C (+GRND) 2/0 AWG SER CABLE (ALUMINUM OR COPPER).
   E. MAXIMUM 2/C NO. 12 AWG CABLE.
4. TOP PLATE.
5. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
6. MINIMUM 3/4" DEPTH HILTI FS-ONE FIRESTOP SEALANT.
7. PROVIDE A GENEROUS BEAD OF HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRE-STOP SEALANT AT THE TOP PLATE.

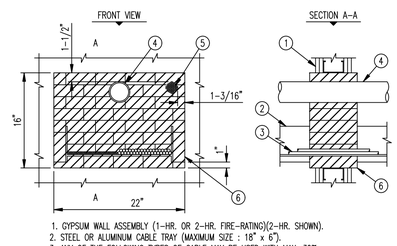
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 2-1/2".
2. ANNULAR SPACE BETWEEN CABLE BUNDLE AND OPENING = MIN. 0", MAX. 1/2".
3. CABLES TO FILL A MAXIMUM OF 45% OF CROSS-SECTIONAL AREA OF OPENING.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WL8013

MULTIPLE PENETRATIONS THROUGH 1-HR. OR 2-HR. GYPSUM WALL

F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 0-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



1. GYPSUM WALL ASSEMBLY (1-HR. OR 2-HR. FIRE-RATING)(2-HR. SHOWN).
2. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE : 18" x 6").
3. ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAX. 30% FILL ON CABLE TRAY :
   A. 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   C. 300 PAIR NO. 24 AWG TELEPHONE CABLE.
4. MAXIMUM 3" DIAMETER PVC PLASTIC PIPE (SCHEDULE 40)(CLOSED OR VENTED PIPING SYSTEM).
5. CABLE BUNDLE (MAX. 2" DIA.) TO CONSIST OF ANY OF THE FOLLOWING:
   A. FIBER-OPTIC CABLE.
   B. RG 59 COAXIAL CABLE.
   C. 25 PAIR NO. 24 AWG TELEPHONE CABLE.
   D. 7/C NO. 12 AWG COPPER CONDUCTOR.
6. HILTI FS 657 FIRESTOP BLOCKS (2" x 5" x 8" DEEP, REF: FRONT VIEW).

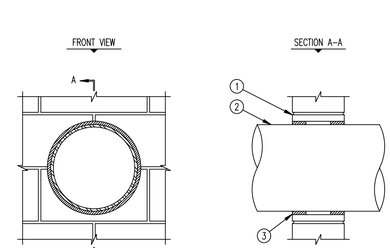
NOTES : 1. NOT SHOWN: PENETRATING ITEMS MAY ALSO INCLUDE A MAX. 4" DIA. STEEL OR COPPER PIPE, EMT, OR STEEL CONDUIT WITH A MAX. 1-1/2" GLASS-FIBER PIPE INSULATION OR NON-INSULATED MAX. 4" STEEL PIPE, EMT, OR CONDUIT.
2. ANNULAR SPACE = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND PENETRATING ITEMS, OR BETWEEN BLOCKS).

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WJ1042

METALLIC PIPE THROUGH 4-HR. CONCRETE OR CONCRETE BLOCK WALL

F RATING = 4-HR.
T RATING = 0-HR.



1. CONCRETE WALL ASSEMBLY (4-HR. FIRE-RATING) :
   A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE WALL.
   B. ANY U.L. CLASSIFIED CONCRETE BLOCK WALL ASSEMBLY.
2. PENETRATING ITEM TO BE ANY ONE OF THE FOLLOWING :
   A. MAXIMUM 12" DIAMETER STEEL PIPE.
   B. MAXIMUM 6" DIAMETER COPPER PIPE.
   C. MAXIMUM 6" DIAMETER STEEL CONDUIT.
   D. MAXIMUM 4" DIAMETER EMT.
3. MIN. 2" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.

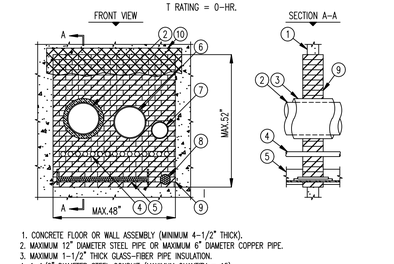
NOTES : 1. MAXIMUM DIAMETER OF OPENING = 13-3/4".
2. ANNULAR SPACE = MINIMUM 3/8", MAXIMUM 1/2".

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

U.L. SYSTEM NO. WJ8007

MULTIPLE PENETRATING ITEMS THROUGH CONCRETE FLOOR OR WALL

F RATING = 4-HR.
T RATING = 0-HR.



1. CONCRETE FLOOR OR WALL ASSEMBLY (MINIMUM 4-1/2" THICK).
2. MAXIMUM 12" DIAMETER STEEL PIPE OR MAXIMUM 6" DIAMETER COPPER PIPE.
3. MAXIMUM 1-1/2" THICK GLASS-FIBER PIPE INSULATION.
4. 1-1/2" DIAMETER STEEL CONDUIT (MAXIMUM QUANTITY = 15).
5. STEEL OR ALUMINUM CABLE TRAY (MAXIMUM SIZE : 36" x 6") WITH ANY OF THE FOLLOWING TYPES OF CABLE MAY BE USED WITH MAXIMUM 30% FILL OF CABLE TRAY :
   A. MAXIMUM 500 KCMIL SINGLE CONDUCTOR POWER CABLE.
   B. MAXIMUM 7/C NO. 12 AWG COPPER CONDUCTOR CABLE.
   C. MAXIMUM 300 PAIR NO. 24 AWG TELEPHONE CABLES.
6. MAXIMUM 30" DIAMETER STEEL PIPE (12" DIAMETER PIPE SHOWN).
7. 6" DIAMETER STEEL PIPE.
8. MAXIMUM 4" DIAMETER CABLE BUNDLE TO INCLUDE ANY OF THE FOLLOWING :
   A. FIBER-OPTIC CABLE (MAX. 1/2" DIA).
   B. ROMEX (2/C NO. 10 +GROUND).
   C. 25 PAIR NO. 24 AWG TELEPHONE CABLES.
   D. 7/C NO. 12 AWG CABLES.
   E. RG 62A COAXIAL CABLES.
   F. METAL CLAD CABLE (MAX. 3/4" DIA.).
9. HILTI FS 657 INTUMESCENT FIRESTOP BLOCK (2" TALL x 5" WIDE x 8" DEEP, REF: FRONT VIEW).
10. SEE NOTE NO. 4 BELOW.

NOTES : 1. ANNULAR SPACING FOR CABLE TRAY = MINIMUM 1-1/2".
2. ANNULAR SPACING FOR PIPE AND CABLE PENETRATIONS = MINIMUM 1".
3. INSTALL HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT IN ANY VOID THAT MAY EXIST (AROUND CABLE TRAY, CABLES, OR PIPE PENERTRATIONS).
4. IF THE ANNULAR SPACE IS GREATER THAN 5", PROVIDE A STEEL WIRE MESH (NOMINAL 2" SQUARES, NO. 16 SWG). INSTALL ON EACH SIDE OF WALL ASSEMBLY.
5. MAXIMUM AREA OF OPENING = 2496 SQUARE INCHES.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

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Drawing Title
Fire Penetration Details

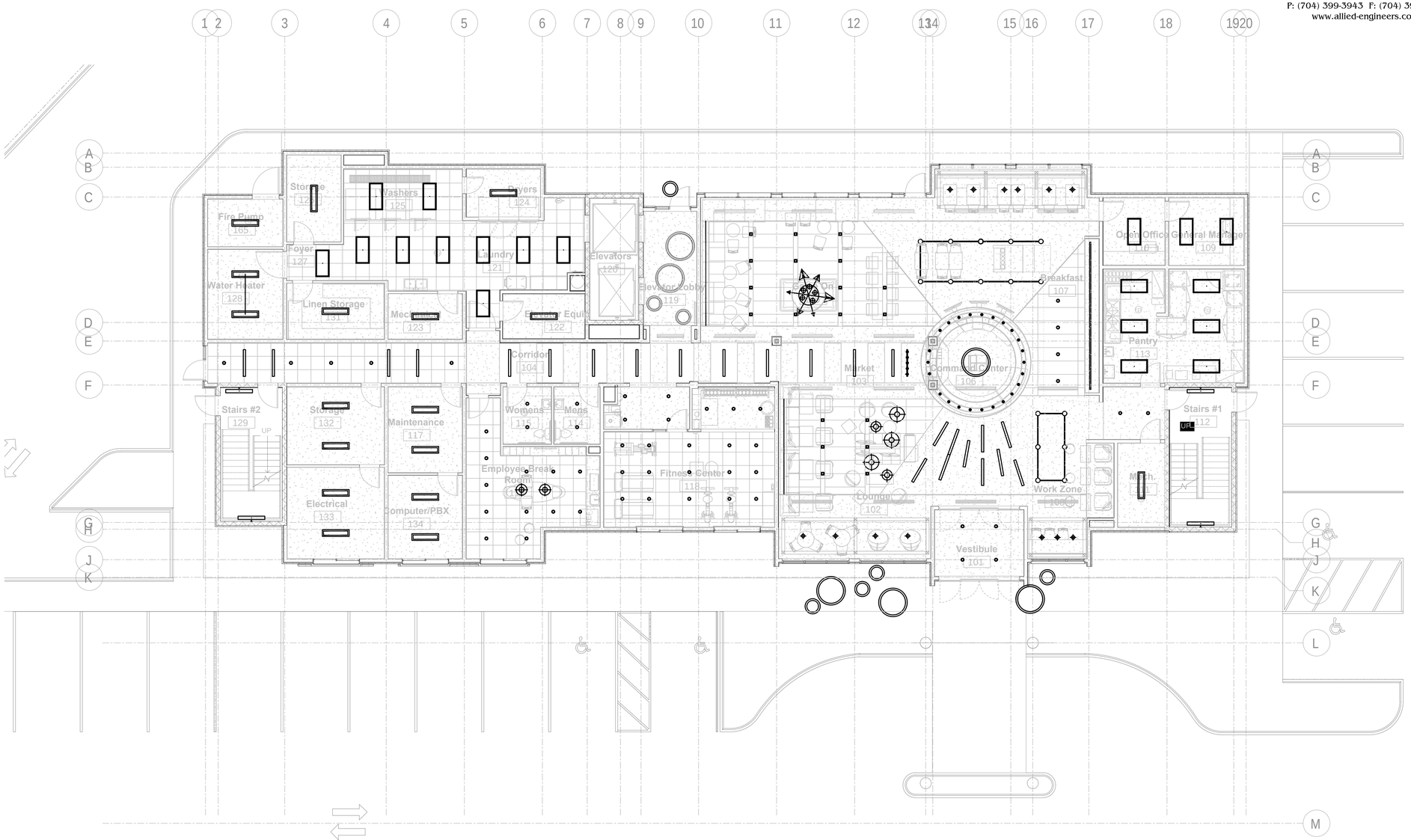
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Project No.	16-111
Prepared by	KSM
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Sheet No.
E004

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1 E101 1ST FLOOR PLAN - LIGHTING

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

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
First Floor Plan - Lighting

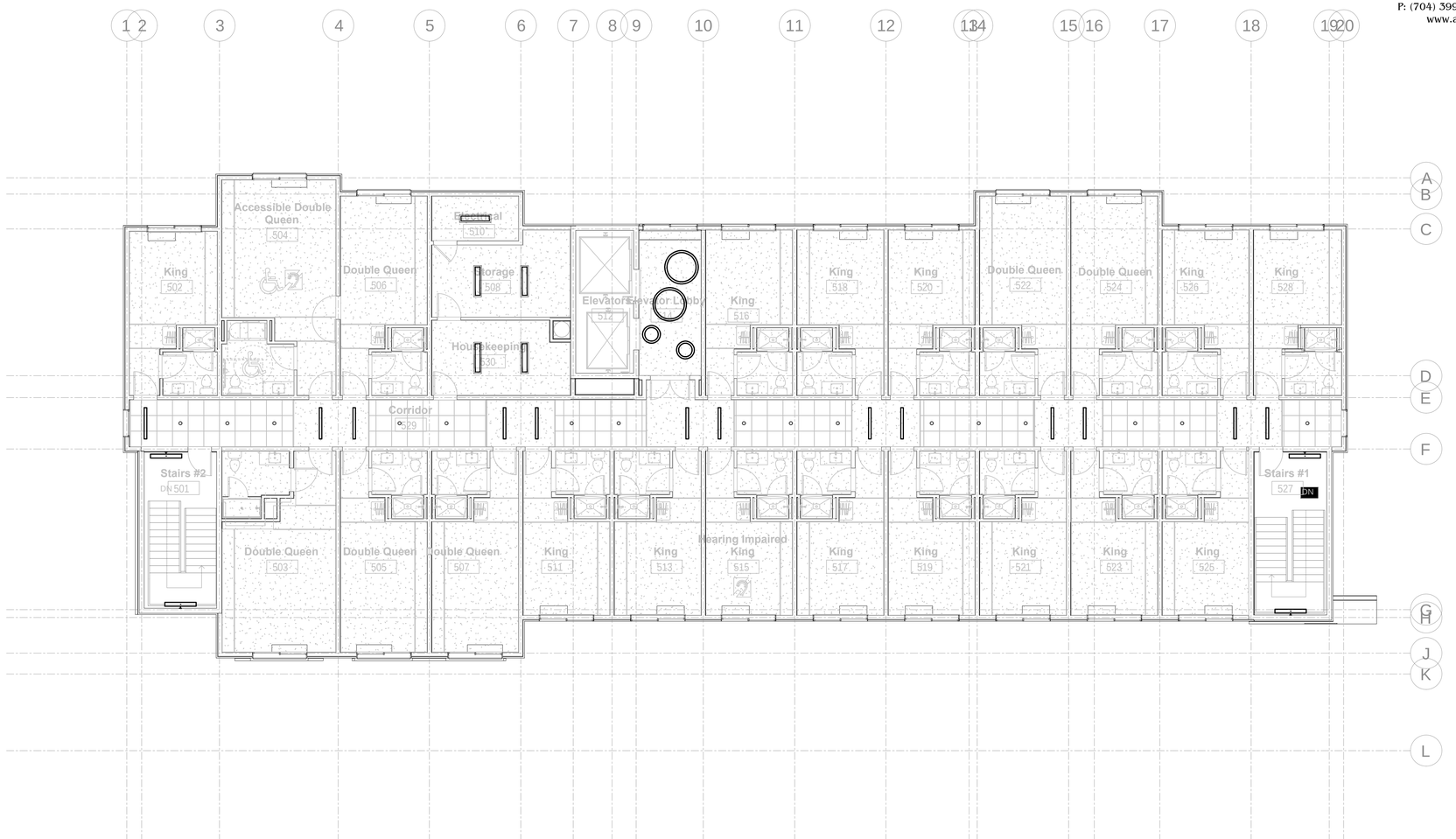
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Prepared by	KSM
Checked by	EDB
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1 E102 2ND FLOOR PLAN - LIGHTING

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

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Tru Hotel

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Drawing Title
Second Floor Plan - Lighting

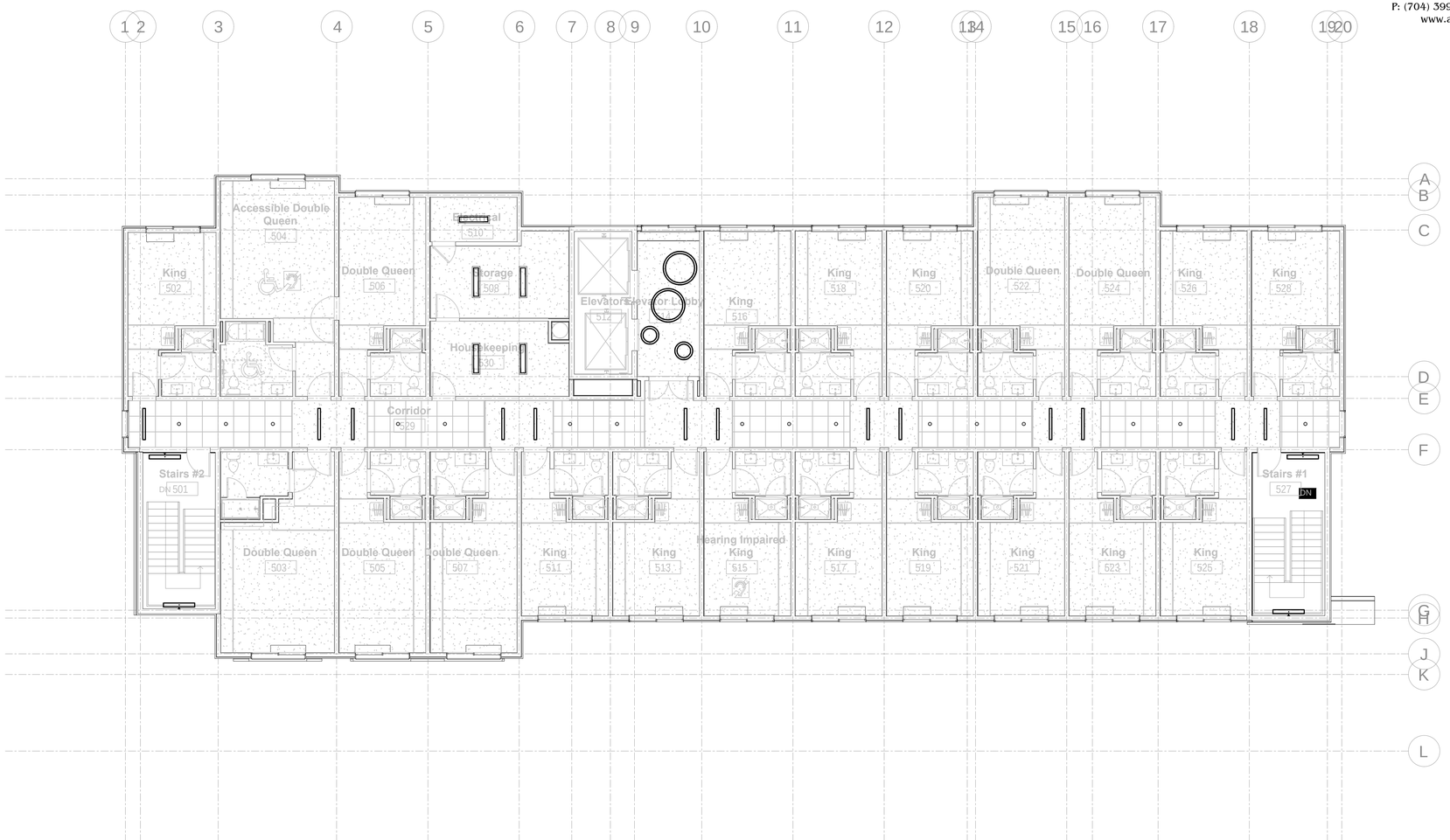
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1 E103 3RD FLOOR PLAN - LIGHTING
SCALE: 1/8" = 1'-0"

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

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Drawing Title
Third Floor Plan - Lighting

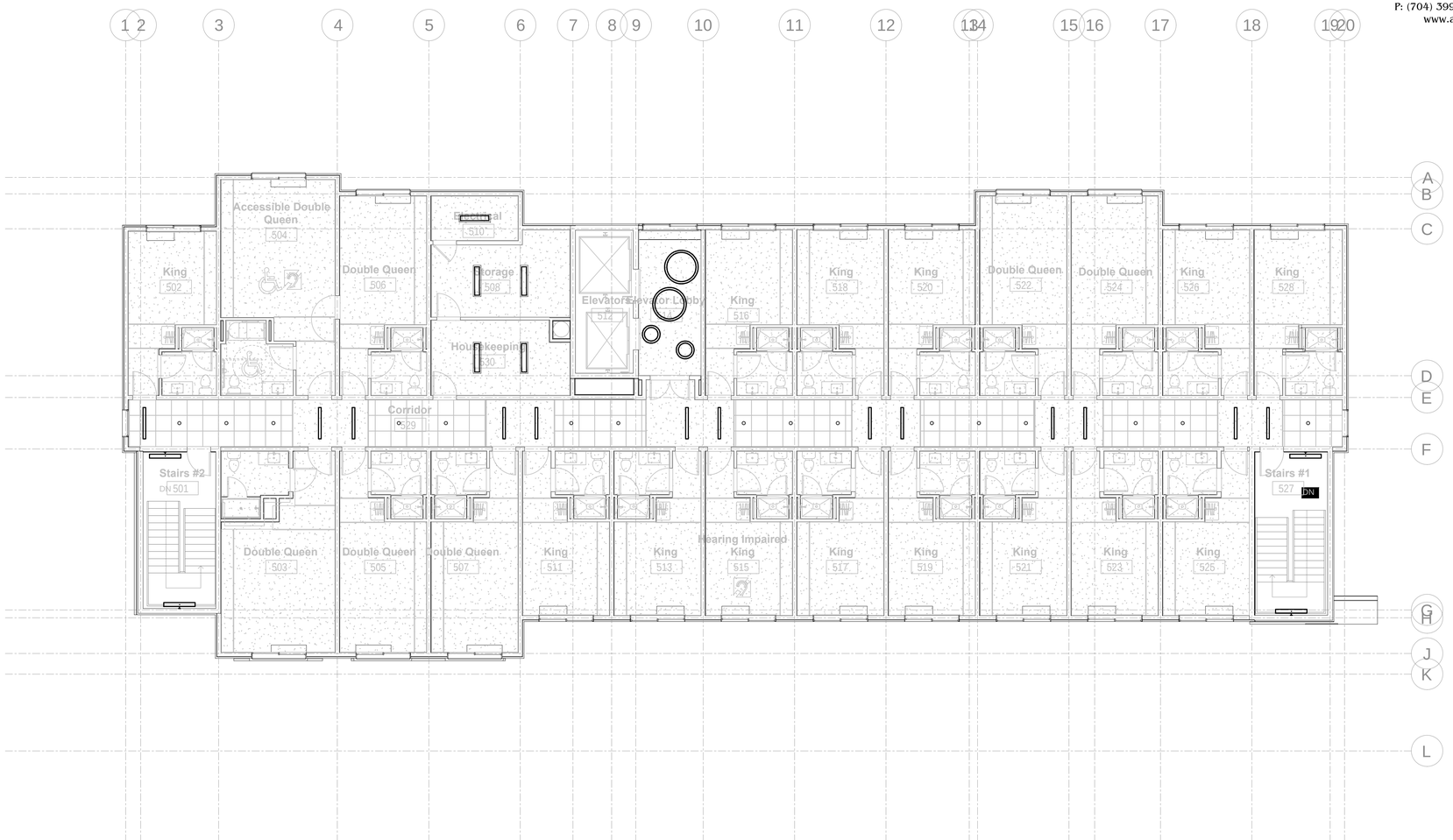
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1 E104 4TH FLOOR PLAN - LIGHTING

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

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Drawing Title
Fourth Floor Plan - Lighting

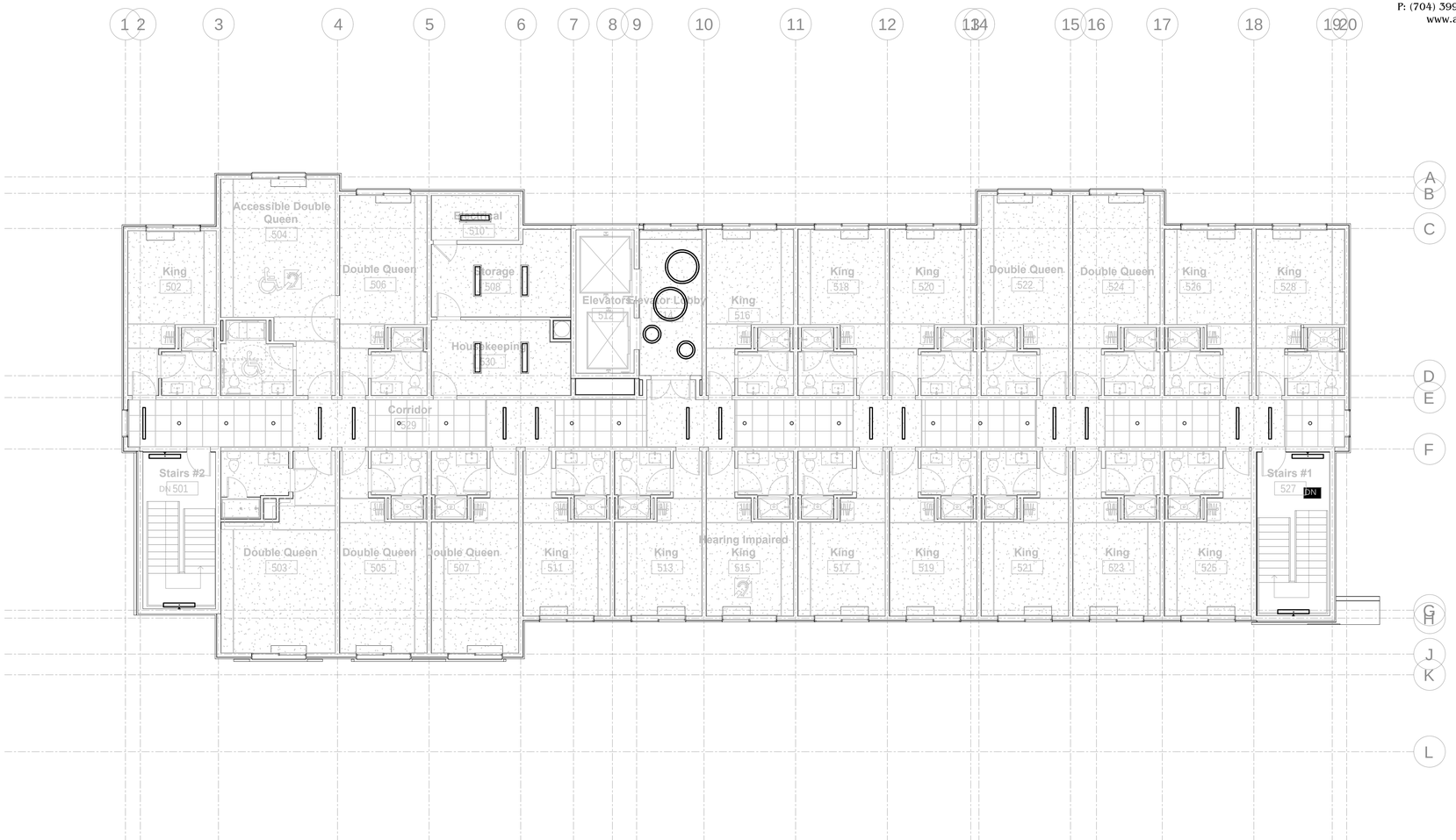
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1 E105 5TH FLOOR PLAN - LIGHTING

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

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Drawing Title
Fifth Floor Plan - Lighting

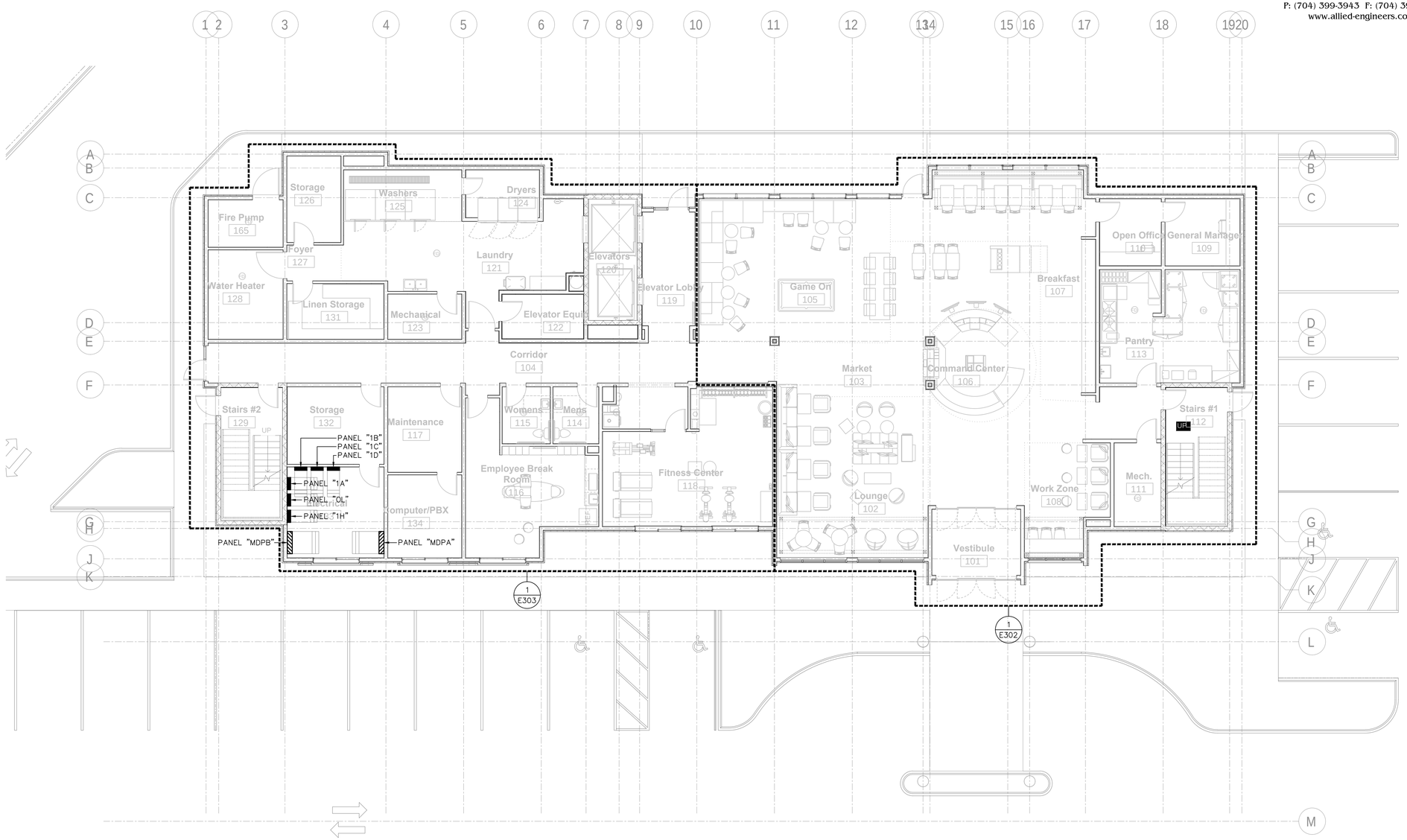
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1 E201 **1ST FLOOR PLAN - POWER**

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KEY PLAN

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Tru Hotel

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Drawing Title
First Floor Plan - Power

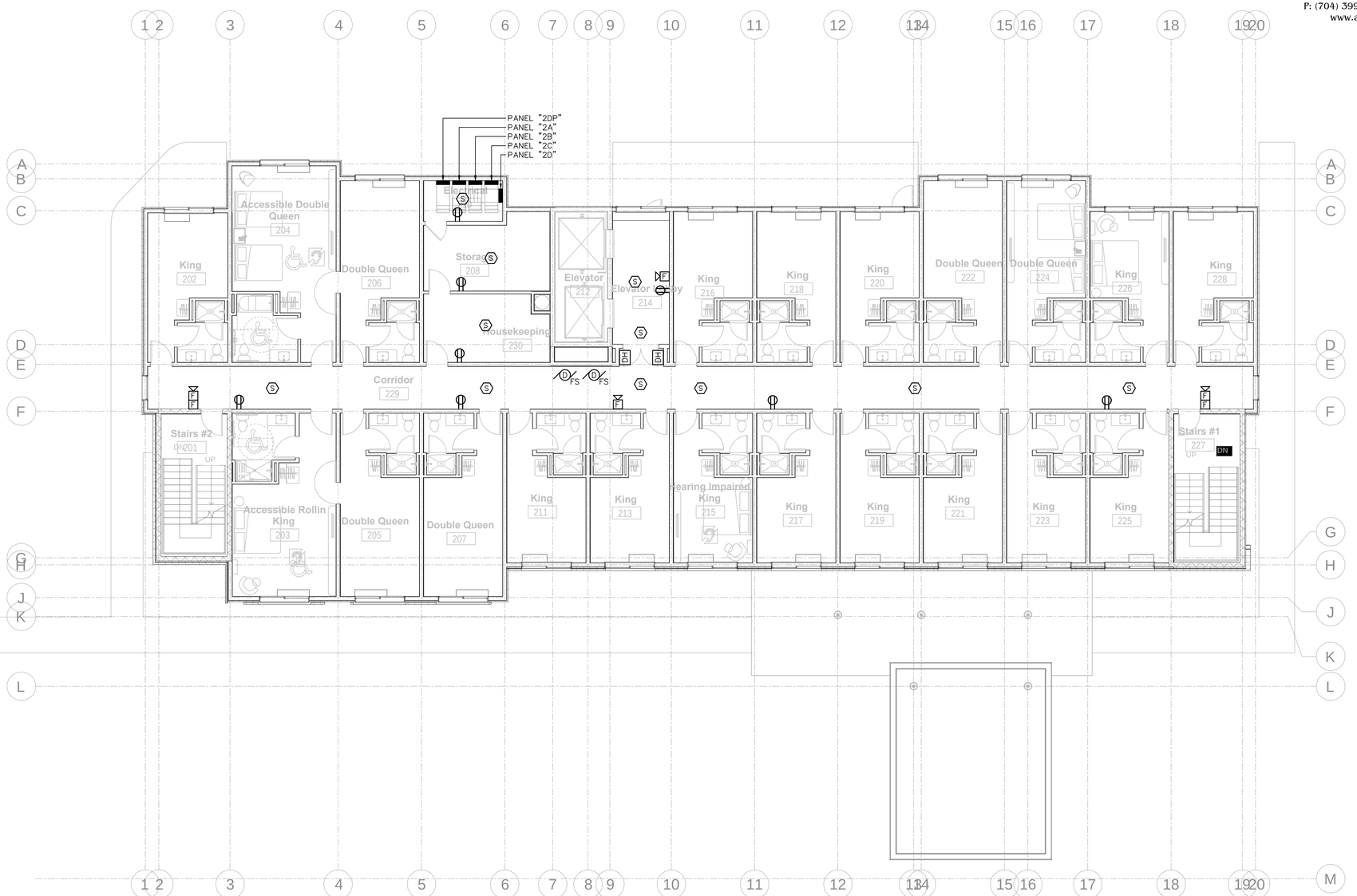
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Project No.	16-111
Prepared by	KSM
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1 E202 2ND FLOOR PLAN - POWER
SCALE: 1/8" = 1'-0"

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Tru Hotel

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Drawing Title
Second Floor Plan - Power

Phase
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1 / E203 3RD FLOOR PLAN - POWER

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Third Floor Plan - Power

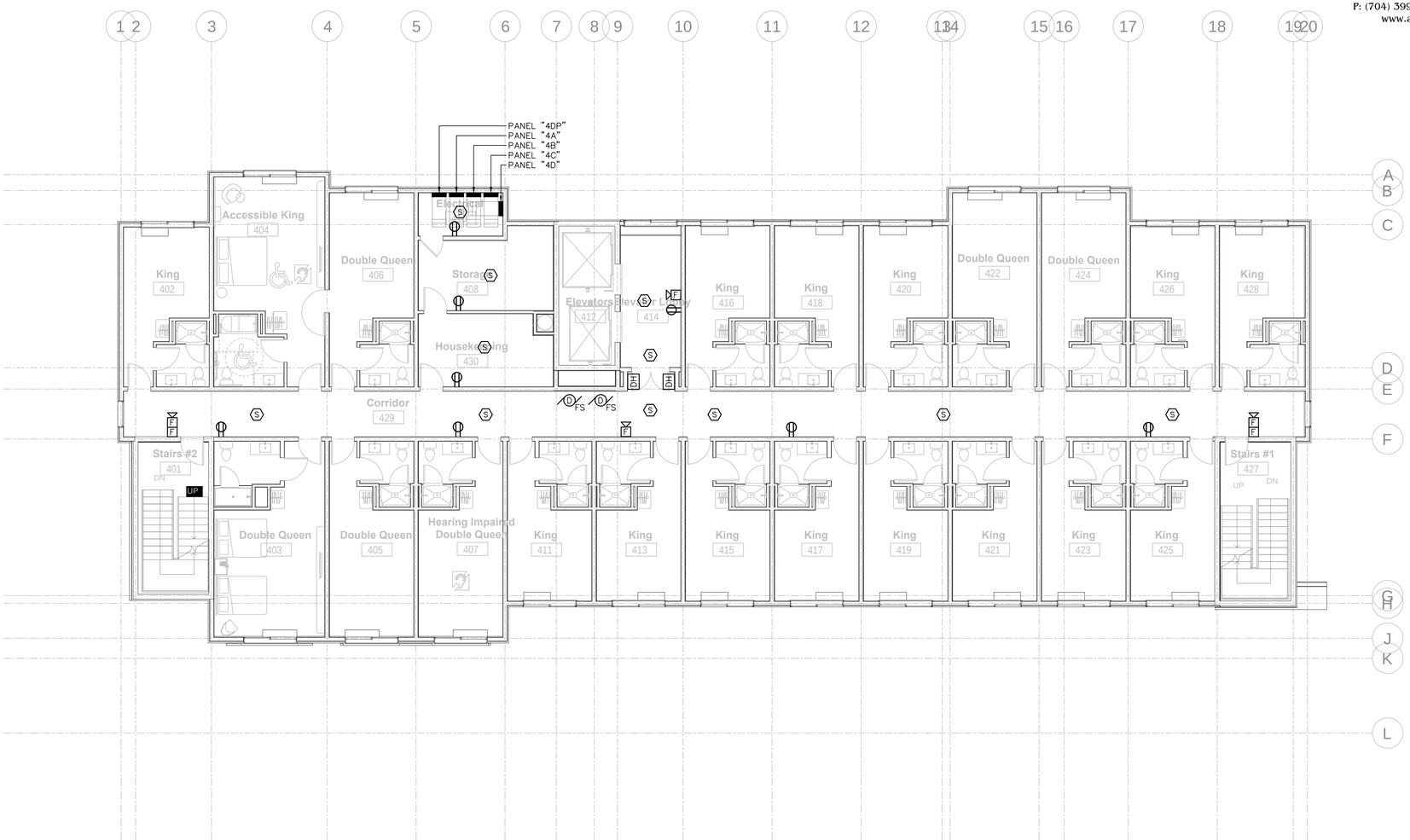
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Project No. 16-111
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Date September 8, 2017

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E203

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1 E204 **4TH FLOOR PLAN - POWER**

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

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KEY PLAN

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Drawing Title
Fourth Floor Plan - Power

Phase
Design Development

Project No. 16-111
Prepared by KSM
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Date September 8, 2017

Sheet No.
E204

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1 E205 5TH FLOOR PLAN - POWER

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

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Tru Hotel

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Drawing Title
Fifth Floor Plan - Power

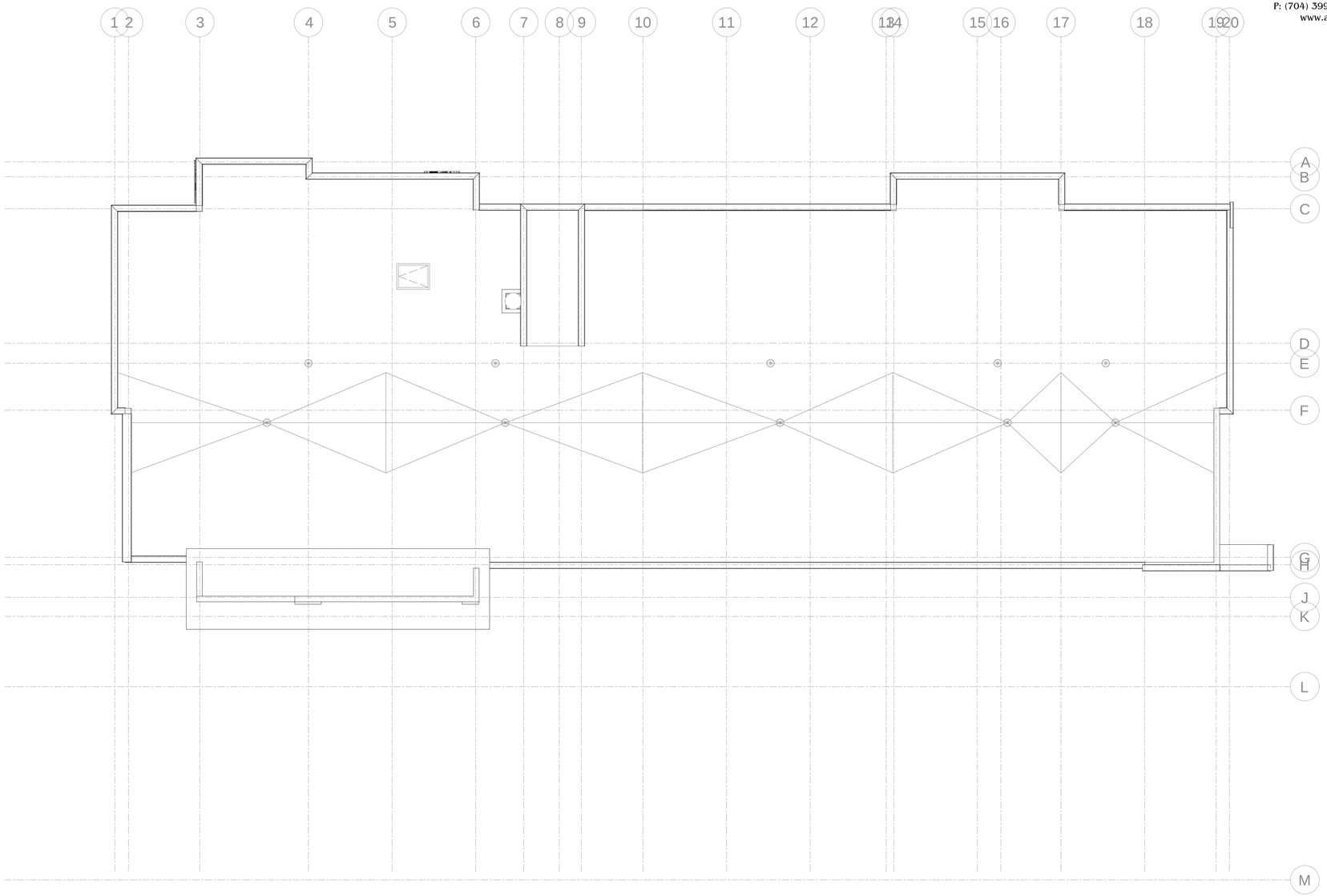
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1 E206 ROOF PLAN - POWER
SCALE: 1/8" = 1'-0"

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No.	Date	Description

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PRELIMINARY
NOT FOR CONSTRUCTION
BID OR PRICING

KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Roof Plan - Power

Phase
Design Development

Project No. 16-111
Prepared by KSM
Checked by EDB
Date September 8, 2017

Sheet No.
E206

Released for
Review

Tru Hotel

GUESTROOM GENERAL NOTES:

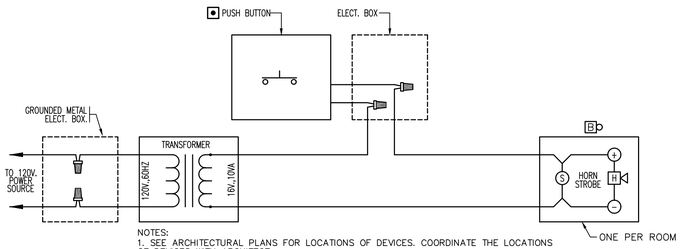
1. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND OWNER FOR EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES PRIOR TO ELECTRICAL ROUGH-IN.
2. SEE 1/8 SCALE PLANS FOR CIRCUIT NUMBERS. CONTRACTOR SHALL REFER TO PANEL SCHEDULES AND RISER DIAGRAM.
3. AT WALLS BETWEEN ADJACENT ROOMS, ELECTRICAL OUTLET LOCATIONS, INCLUDING TV AND TELEPHONE OUTLETS, SHALL BE OFFSET 6" MIN. HORIZONTALLY FOR INSTALLATION. ELECTRICAL CORDS SHOULD BE HIDDEN FROM VIEW. BACK TO BACK OUTLETS ARE NOT ALLOWED.
4. LIGHT SWITCH AND GFCI OUTLETS CAN BE MOUNTED IN A COMMON BOX WITH COVER PLATE. COORDINATE CLEARANCE WITH MIRROR.
5. HEIGHT OF ALL SWITCHES, OUTLETS, ETC., TO MEET ACCESSIBILITY STANDARDS FOR MAXIMUM AND MINIMUM REACH RANGE. FEDERAL AND LOCAL CODES APPLY AND THE MOST STRINGENT STANDARD PREVAILS. SWITCHES ON LAMPS MUST BE TOGGLE TYPE.
6. ELECTRICAL OUTLETS AT DESKS ARE TO BE COORDINATED WITH FRANCHISE STANDARDS. DEPENDING ON FF&E PROVIDED, CERTAIN OUTLETS MAY NOT BE REQUIRED.
7. CEILING MOUNTED LIGHT FIXTURE AND EXHAUST FAN AT ALL GUESTROOM BATHROOMS TO BE SWITCHED SEPARATELY. CONTRACTOR SHALL COORDINATE WITH MECHANICAL FOR EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ELECTRICAL ROUGH-IN.
8. HEARING IMPAIRED ROOMS SHALL BE EQUIPPED WITH ACCESSIBLE DEVICES SUCH AS, BUT NOT LIMITED TO THE FOLLOWING: FIRE ALARM STROBES, SMOKE DETECTOR STROBES AND DOOR BUZZER STROBES, TELEPHONES WITH VOLUME CONTROLS COMPATIBLE WITH THE PHONE SYSTEM. ALSO PROVIDE DOORBELL ON/OFF SWITCH WITH SIGNAGE AS REQUIRED.
9. AT ALL ADA AND HEARING IMPAIRED ROOMS:
   - A. 177CD FIRE ALARM HORN/STROBE IN ROOM.
   - B. FIRE ALARM STROBE IN BATH ROOM.
   - C. SYSTEM, PHOTOELECTRIC SMOKE DETECTORS ON CEILING.
10. ALL NON-ADA GUESTROOMS:
    - A. SYSTEM, PHOTOELECTRIC SMOKE DETECTORS ON CEILING.
    - B. MINI-HORN ON WALL.
11. ALL GUESTROOMS SHALL HAVE 70DBA MINIMUM AT PILLOW.
12. PTAC - PREFERRED MANUFACTURERS AS REFERENCED IN BRANDS STANDARDS MANUAL OR APPROVED EQUAL MUST BE PROVIDED.
13. ALL CONTROLS FOR USE BY GUESTS MUST BE MOUNTED AT BETWEEN 15" AFF AND 48" AFF AND PROVIDE A 30" X 48" FLOOR AREA IN COMPLIANCE WITH ACCESSIBILITIES STANDARDS. OPERABLE CONTROLS LOCATED OVER AN OBSTRUCTION DEEPER THAN 10" MUST BE MOUNTED NO HIGHER THAN 46" AFF. ACCESSIBLE CONTROLS MUST NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
14. IN ACCESSIBLE ROOMS, AT LEAST ONE OUTLET AND DATA CONNECTION FOR USE BY GUESTS MUST BE MOUNTED BETWEEN 15" AND 48" AFF AND PROVIDE A CLEAR FLOOR AREA IN COMPLIANCE WITH ACCESSIBLE STANDARDS.
15. OBJECTS MOUNTED WITHIN THE CIRCULATION PATH IN ACCESSIBLE ROOMS BETWEEN 27" AND 80" AFF SHALL NOT PROTRUDE FURTHER THAN 4" FROM WALL.
16. ALL GUESTROOM LIGHT FIXTURES TO HAVE WARM WHITE, INSTANT START, FLICKER FREE, 2700K LAMPS.
17. ALL GUESTROOM LOW VOLTAGE WIRING MUST BE INSTALLED IN CONDUIT FROM ROOMS TO THE ACCESSIBLE CEILING IN CORRIDOR. THIS INCLUDES CATV, HSIA, AND TELEPHONE WIRING.
18. MOUNT ALL MICROWAVE RECEPTACLES ABOVE COUNTER. ALL REFRIGERATOR RECEPTACLES SHALL BE MOUNTED UNDER COUNTER. COORDINATE WITH OWNER FOR EXACT MOUNTING HEIGHT PRIOR TO ELECTRICAL ROUGH-IN.
19. CONTRACTOR TO COORDINATE WITH FIRE ALARM CONTRACTOR THE LOCATION OF 120V UNIT SMOKE/CO DETECTORS AND PROVIDE CONNECTION APPROPRIATELY.
20. AT ALL HEARING IMPAIRED ROOMS:
    - A. PROVIDE AUDIBLE/VISUAL DOORBELL/ANNUNCIATOR EQUIVALENT TO EDWARDS MODEL 7005-G5 WITH EDWARDS MODEL 620 PUSHBUTTON.
    - B. 177CD FIRE ALARM HORN/STROBE IN ROOM.
    - C. FIRE ALARM STROBE IN BATH ROOM.
    - D. AUDIBLE/VISUAL DOORBELL IN BATHROOM.

KEYED NOTES (#)

1. CONNECTION FOR WALL MOUNTED LIGHTING FIXTURE GF-303 PROVIDED AS PART OF THE FF&E PACKAGE. 120V, 100W MAX.
2. DATA OUTLET FOR WIRELESS ACCESS POINT.
3. MOUNT RECEPTACLE HORIZONTAL TO THE TABLE TOP.
4. CONNECTION FOR PENDANT MOUNTED LIGHTING FIXTURE GF-301 PROVIDED AS PART OF THE FF&E PACKAGE. 120V, 100W MAX.
5. CONNECTION FOR AUTOMATIC WINDOW ROLLER SHADES. COORDINATE EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ROUGH-IN.

ALL 120 VOLT, 15 AND 20 AMP RECEPTACLES IN DWELLING UNITS SHALL BE TAMPER RESISTANT PER NEC 406.13.

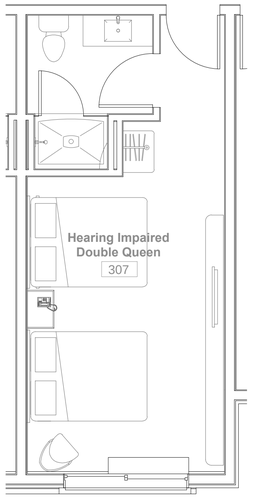
NOTE:
1. LOCATION OF OUTLETS FOR TV AND DESK AREA MUST BE FIELD VERIFIED BY OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
2. VERIFY MOUNTING HEIGHTS FOR ALL RECEPTACLES IN THE GUEST ROOMS PRIOR TO ROUGH-IN.



NOTES:
1. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF DEVICES. COORDINATE THE LOCATIONS OF DEVICES WITH ARCHITECT

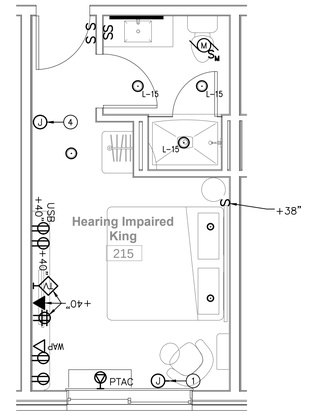
WIRING DIAGRAM OF VISUAL/AUDIBLE NOTIFICATION DEVICES FOR HEARING IMPAIRED AND ACCESSIBLE UNITS (10VA)

9 E301 NTS



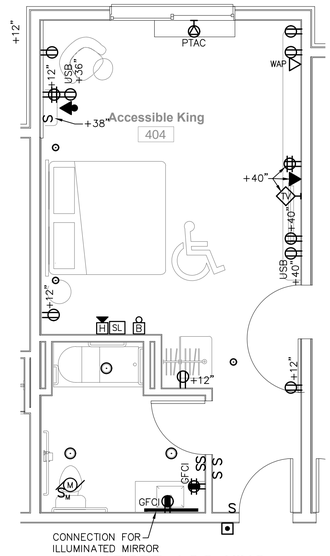
ENLARGED HI DOUBLE QUEEN ROOM PLAN

8 E301 SCALE: 1/4" = 1'-0"



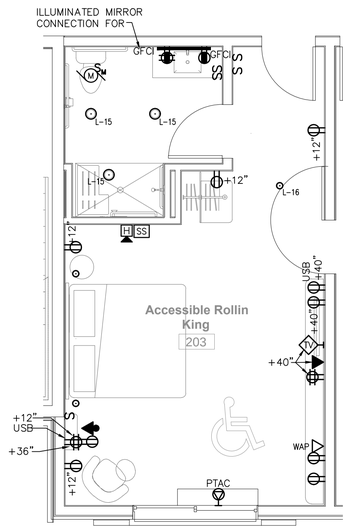
ENLARGED HI KING ROOM PLAN

7 E301 SCALE: 1/4" = 1'-0"



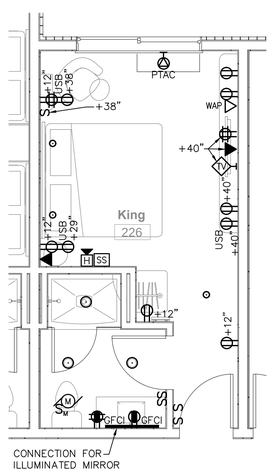
ENLARGED ACC. KING ROOM PLAN

6 E301 SCALE: 1/4" = 1'-0"



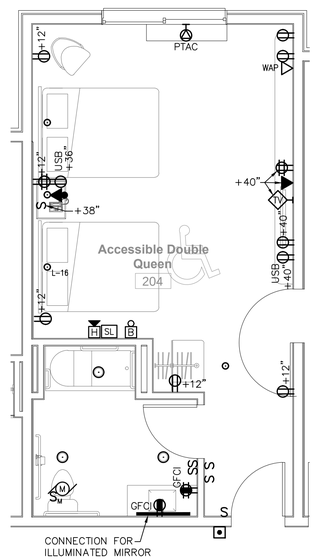
ENLARGED ROLL IN KING ROOM PLAN

5 E301 SCALE: 1/4" = 1'-0"



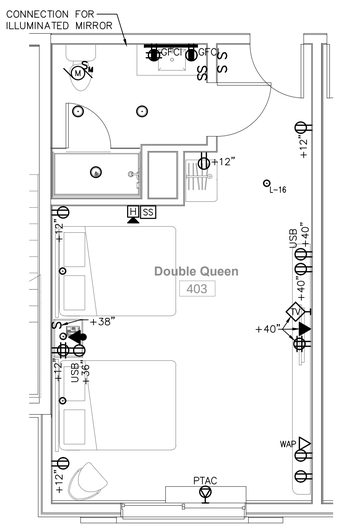
ENLARGED KING ROOM PLAN

4 E301 SCALE: 1/4" = 1'-0"



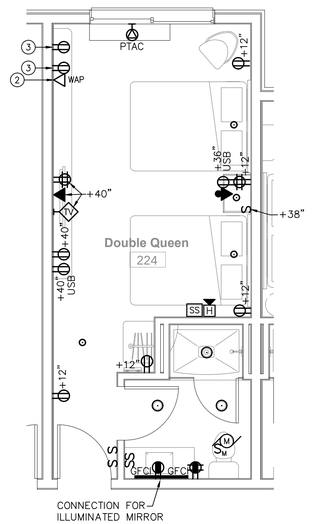
ENLARGED ACC. DOUBLE QUEEN ROOM PLAN

3 E301 SCALE: 1/4" = 1'-0"



ENLARGED DOUBLE QUEEN WIDE ROOM PLAN

2 E301 SCALE: 1/4" = 1'-0"



ENLARGED DOUBLE QUEEN ROOM PLAN

1 E301 SCALE: 1/4" = 1'-0"

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Enlarged Plans - Guest Rooms

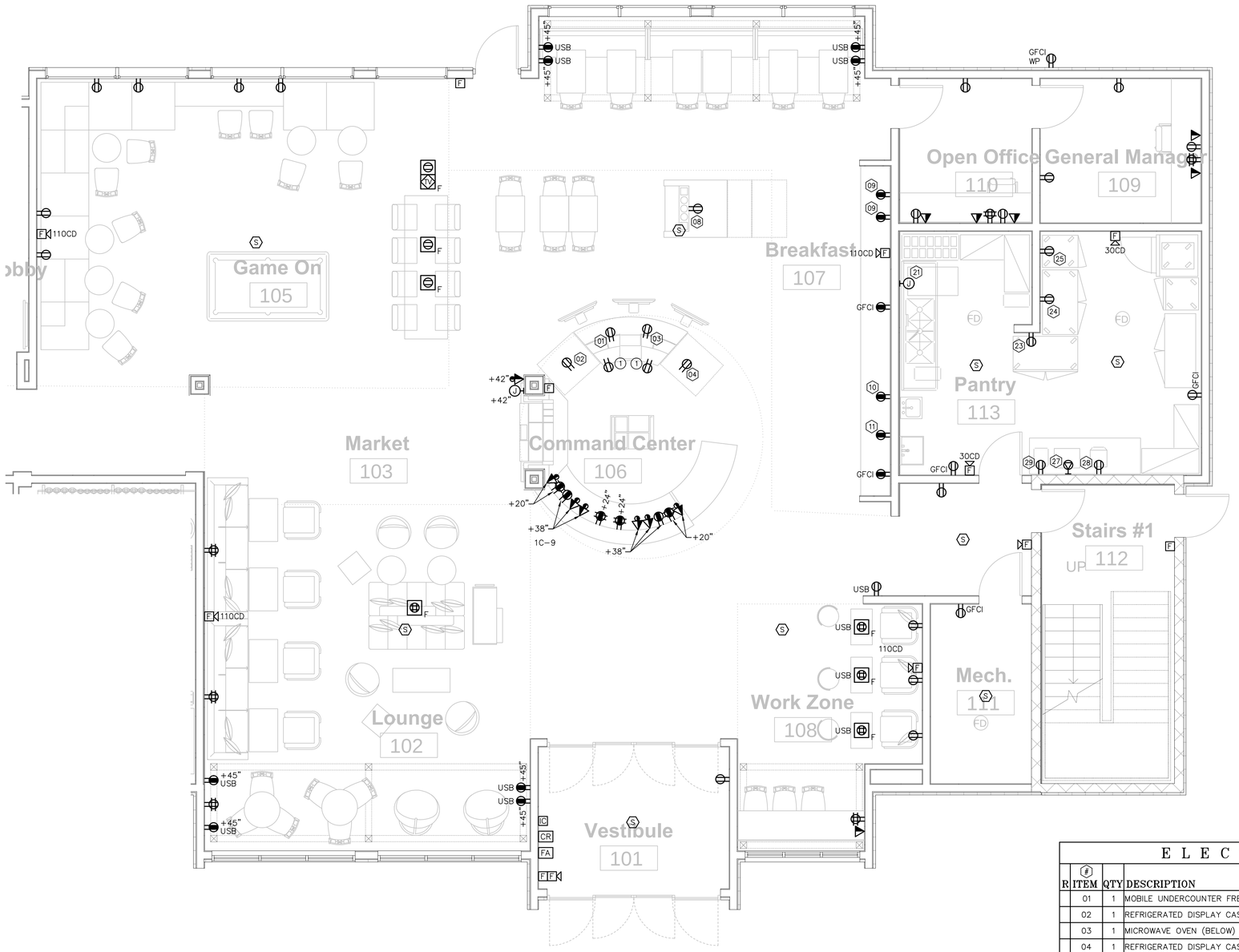
Phase
Design Development

Project No.	16-111
Prepared by	KSM
Checked by	EDB
Date	September 8, 2017

Sheet No. E301

Released for
Review

Tru Hotel



1 ENLARGED FIRST FLOOR PLAN - POWER

E302 SCALE: 1/4" = 1'-0"

KEYED NOTES (#)

1. MOUNT RECEPTACLE TO THE BASE OF THE MILLWORK. COORDINATE EXACT LOCATIONS WITH THE MILLWORK SUPPLIER PRIOR TO ROUGH-IN.
2. CONNECTION FOR HYDRATION STATION. VERIFY EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
3. CONNECTION FOR ICE MAKER. VERIFY EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
4. PROVIDE AN EMERGENCY PANIC BUTTON CONNECTED TO THE FRONT DESK.

ELECTRICAL UTILITY SCHEDULE

R	ITEM (#)	QTY	DESCRIPTION	VOLTS	PH	AMPS	KW	HP	ELE TYPE	AFF	ELECTRICAL COMMENTS
	01	1	MOBILE UNDERCOUNTER FREEZER	120	1	6.0			REC		STUB-UP, CONNECT TO FIXTURE MOUNTED OUTLET (BY ELECTRICAL DIVISION)
	02	1	REFRIGERATED DISPLAY CASE	120	1	11.0			REC		STUB-UP, CONNECT TO FIXTURE MOUNTED OUTLET (BY ELECTRICAL DIVISION)
	03	1	MICROWAVE OVEN (BELOW)	120	1	16.8			REC		STUB-UP, CONNECT TO FIXTURE MOUNTED OUTLET (BY ELECTRICAL DIVISION)
	04	1	REFRIGERATED DISPLAY CASE	120	1	11.0			REC		STUB-UP, CONNECT TO FIXTURE MOUNTED OUTLET (BY ELECTRICAL DIVISION)
	08	1	INDUCTION WARMER	120	1	5.4			REC		STUB-UP, CONNECT TO FIXTURE MOUNTED OUTLET (BY ELECTRICAL DIVISION)
	09	2	CONVEYOR TOASTER	120	1	14.4 EA.			REC	48"	
	10	1	JUICE DISPENSER (OPERATOR FURNISHED)	120	1	15.0			REC	48"	VERIFY REQUIREMENTS WITH OPERATOR SUPPLIED EQUIPMENT
	11	1	MILK DISPENSER	120	1	1.3			REC	48"	
	21	1	UNDERCOUNTER DISHWASHER (HIGH TEMP)	208	3	23.9			JBOX	18"	
	23	1	MOBILE REACH-IN REFRIGERATOR	120	1	5.8			REC	18"	
	24	1	MOBILE REACH-IN REFRIGERATOR (RETAIL)	120	1	7.6			REC	18"	
	25	1	MOBILE REACH-IN FREEZER	120	1	11.0			REC	18"	
	27	1	COFFEE MAKER	208/240	1	25.8			REC	48"	2 WIRE + GROUND
	28	1	MICROWAVE OVEN (FUTURE)	120	1	16.8			REC	48"	
	29	1	INDUCTION WARMER (FUTURE)	120	1	5.4			REC	48"	
	32	1	MOBILE REACH-IN FREEZER (RETAIL)	120	1	5.5			REC	18"	

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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Tru Hotel

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Monroe, LA 71201

Drawing Title
Enlarged First Floor Plan - Power

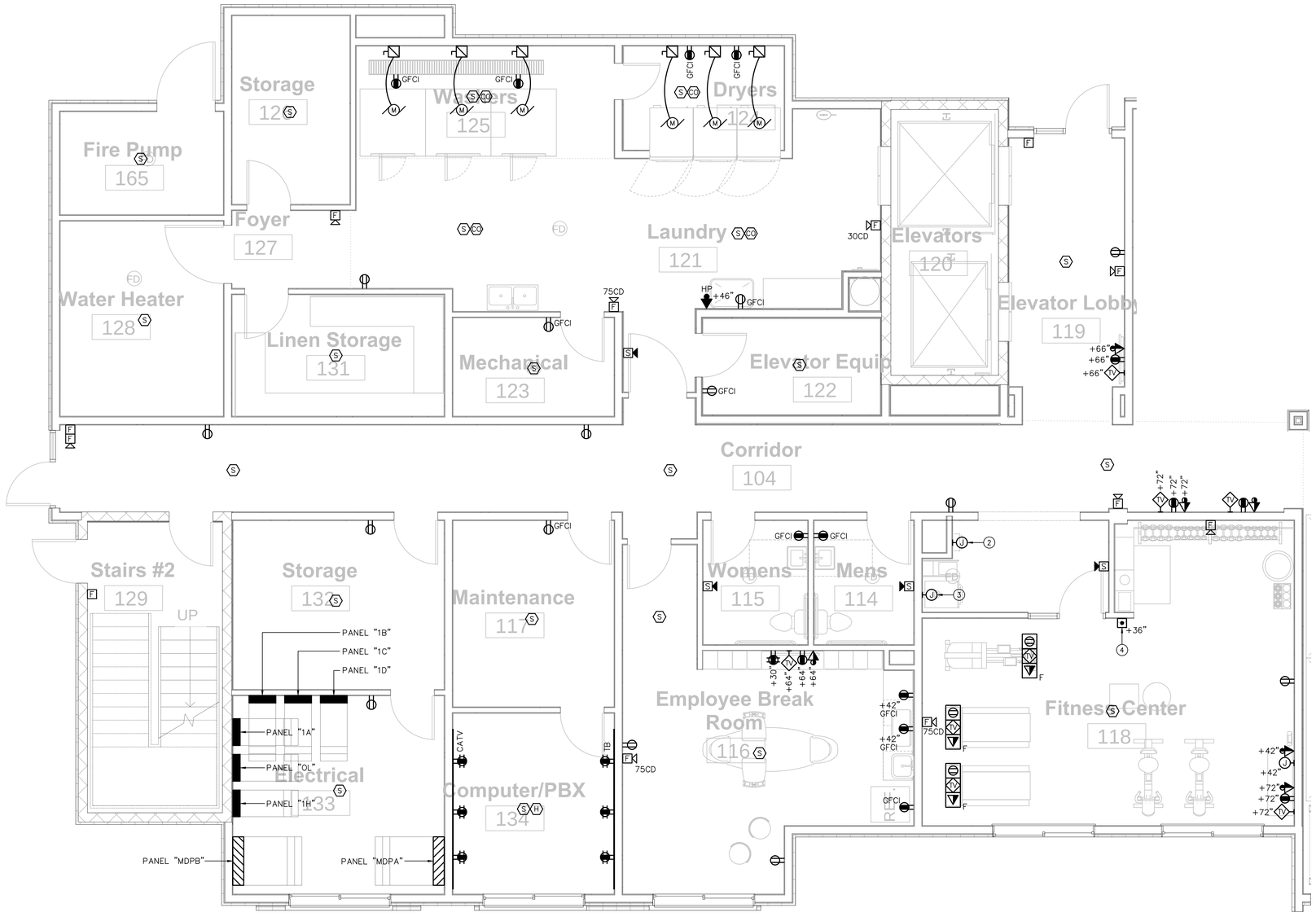
Phase
Design Development

Project No. 16-111
Prepared by KSM
Checked by EDB
Date September 8, 2017

Sheet No. E302

Released for
Review

Tru Hotel



1 E303 ENLARGED FIRST FLOOR PLAN - POWER

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

KEYED NOTES (#)

1. MOUNT RECEPTACLE TO THE BASE OF THE MILLWORK. COORDINATE EXACT LOCATIONS WITH THE MILLWORK SUPPLIER PRIOR TO ROUGH-IN.
2. CONNECTION FOR HYDRATION STATION. VERIFY EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
3. CONNECTION FOR ICE MAKER. VERIFY EXACT REQUIREMENTS AND LOCATION PRIOR TO ROUGH-IN.
4. PROVIDE AN EMERGENCY PANIC BUTTON CONNECTED TO THE FRONT DESK.

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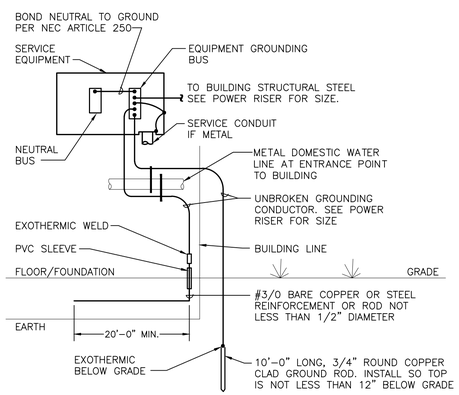
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Tru Hotel

CU FEEDER SCHEDULE / AL FEEDERS

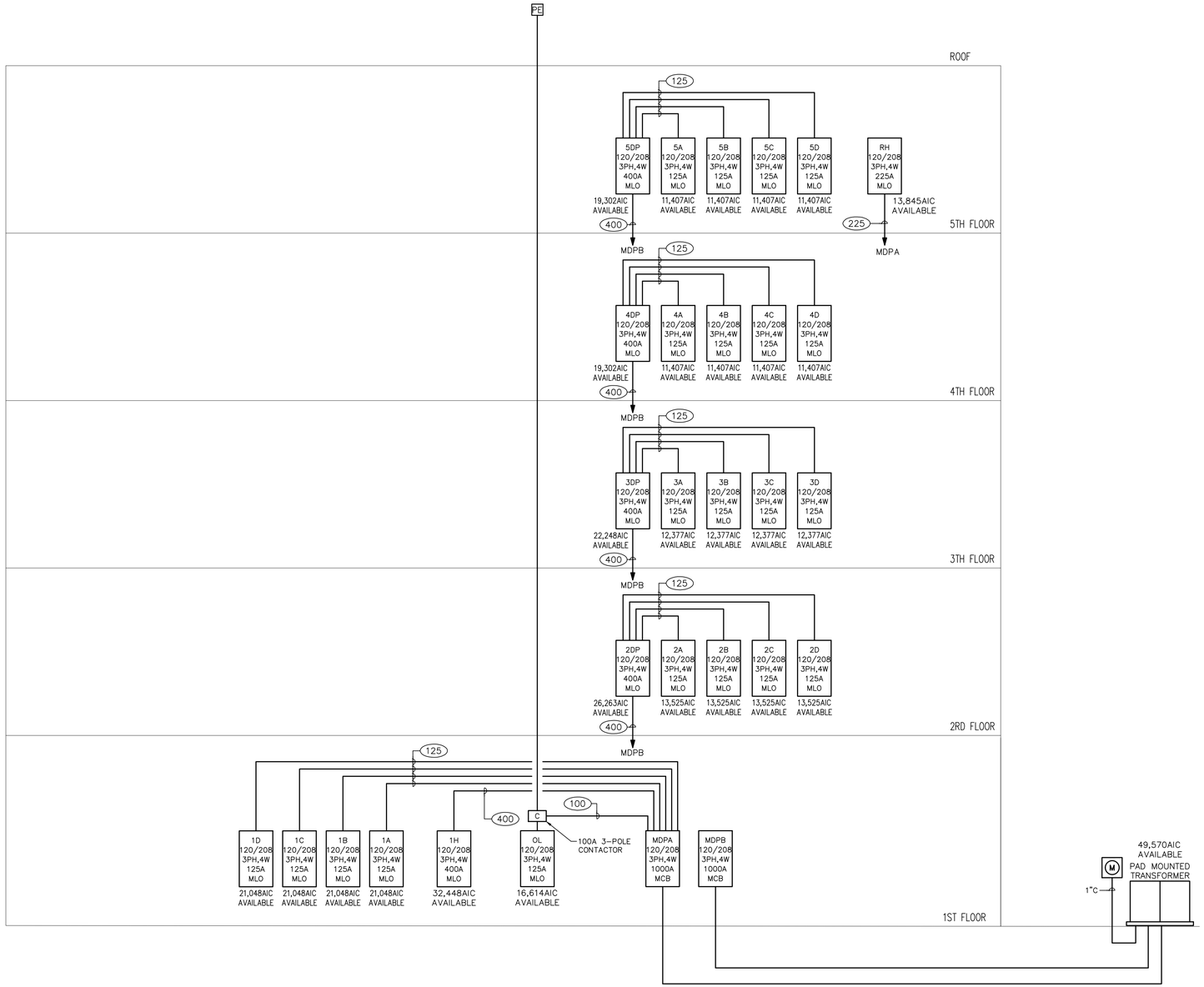
STD. FUSE OR C/B TRIP SIZE	# OF SETS	BUILDING WIRE QUANTITY & SIZE. TYPE THHN – DRY TYPE THWN – WET	MINIMUM CONDUIT SIZE	# OF SETS	BUILDING WIRE QUANTITY & SIZE. TYPE THHN – DRY TYPE THWN – WET	MINIMUM CONDUIT SIZE
30	1	4 #10, #10 G	1/2"	N/A	N/A	N/A
35	1	4 #8, #10 G	3/4"	N/A	N/A	N/A
40	1	4 #8, #10 G	3/4"	N/A	N/A	N/A
45	1	4 #6, #10 G	1"	N/A	N/A	N/A
50	1	4 #6, #10 G	1"	N/A	N/A	N/A
60A	1	3 #6, #10 G	1"	N/A	#2, #2, #2 W/ #4 G SER	N/A
60	1	4 #6, #10 G	1"	N/A	N/A	N/A
70	1	4 #4, #8 G	1 1/4"	N/A	N/A	N/A
80	1	4 #3, #8 G	1 1/4"	N/A	N/A	N/A
90	1	4 #2, #8 G	1 1/4"	N/A	N/A	N/A
100A				1	1/0, 1/0, 1/0 W/ #2 G SER	N/A
100				1	4 #1, #6 G	2"
110				1	4 #1/0, #4 G	2"
125				1	4 #2/0, #4 G	2"
150				1	4 #3/0, #4 G	2 1/2"
175				1	4 #4/0, #4 G	2 1/2"
200				1	4 –250KCMIL, #4 G	3"
225				1	4 –300KCMIL, #2 G	3"
250				1	4 – 350KCMIL, #2 G	3"
300				1	4 – 500KCMIL, #2 G	3 1/2"
350				1	4 – 750KCMIL, #1 G	5"
400				2	4 – 250KCMIL, #1 G	3"
450				2	4 – 300KCMIL, #1/0 G	3"
500				2	4 – 350KCMIL, #1/0 G	3"
600				2	4 – 500KCMIL, #2/0 G	3 1/2"
700				2	4 – 700KCMIL, #3/0 G	4"
800				3	4 – 400KCMIL, #3/0 G	3 1/2"
1000				3	4 – 600KCMIL, #4/0 G	4"
1200				4	4 – 500KCMIL, 250KCMIL G	3 1/2"
1600				6	4 – 400KCMIL	3 1/2"

NOTES:
1. ALL FEEDER SIZES LISTED MAY NOT BE USED IN PROJECT RISER DIAGRAM.
2. ELECTRICAL CONTRACTOR TO VERIFY CONDUIT SIZE REQUIRED IF WIRE TYPES OTHER THAN THOSE LISTED ABOVE ARE USED.
3. REFER TO LATEST EDITION OF NEC FOR CONDUIT TYPES REQUIRED PER THEIR LOCATION. IF CONDUIT OTHER THAN 'EMT' IS REQUIRED USE SIZE PER MAXIMUM FILL TABLES.
4. FEEDER SIZES SHOWN IN PROJECT RISER WITH A DELTA SYMBOL ' D' ARE 3Ø, 3 WIRE FEEDERS, A NEUTRAL WIRE IS NOT REQUIRED.
5. FEEDER SIZES SHOWN IN PROJECT RISER WITH A DELTA SYMBOL ' F' ARE 1Ø, 3 WIRE FEEDERS.



RESISTANCE TO GROUND SHALL BE LESS THAN 25 OHMS

2 / E401 **SERVICE GROUNDING DETAIL**
NO SCALE



1 / E401 **POWER RISER DIAGRAM**
NTS

NOTE:
WHERE ELECTRICAL PANELS ARE PLACED IN CHUTE ROOMS ON THE UPPER LEVELS, ALL NEC REQUIRED CLEARANCES MUST BE MAINTAINED.

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KEY PLAN

Pramukh Monroe, Inc.

Tru Hotel

5400 I-20 & Frontage Rd.
Monroe, LA 71201

Drawing Title
Power Riser Diagram

Phase
Design Development

Project No. 16-111
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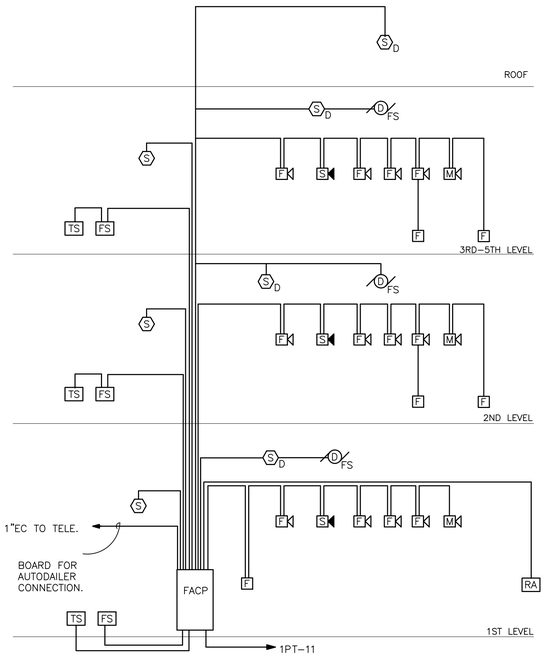
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FIRE ALARM SEQUENCE

SEQUENCE OF OPERATIONS / ALARM SOURCE AND TYPE	BUILDING SYSTEM OUTPUTS: ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE TROUBLE SIGNAL	ACTIVATE GENERAL EVACUATION SIGNAL	DISPLAY CHANGE OF STATUS	ACTIVATE EXTERNAL HORN STROBE	TRANSMIT F.A. SIGNAL TO CENTRAL COMMUNICATOR	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL COMM.	TRANSMIT TROUBLE SIGNAL TO CENTRAL COMM.	CENTRAL COMM.: SHOW CHANGE OF STATUS ON ANNUNCIATOR	SHOW CHANGE OF STATUS ON CENTRAL PANEL	TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION
1. MANUAL PULL STATION ALARM	■	■					■	■	■	■			■	■	■		
2. BUILDING SMOKE DETECTOR	■	■					■	■	■	■			■	■	■		
3. DUCT DETECTOR ALARM			■	■				■			■		■	■		■	
4. SMOKE DETECTOR DIRTY/MALFUNCTION – ALL					■	■		■					■	■			■
5. SPRINKLER WATERFLOW	■	■					■	■	■	■			■	■	■		
6. SPRINKLER TAMPER			■	■				■			■		■	■		■	
7. FIRE ALARM AC POWER FAILURE					■	■		■					■	■			■
8. FIRE ALARM SYSTEM LOW BATTERY					■	■		■					■	■			■
9. OPEN CIRCUIT					■	■		■					■	■			■
10. GROUND FAULT					■	■		■					■	■			■
11. NOTIFICATION APPLIANCE CIRCUIT SHORT					■	■		■					■	■			■
12. SYSTEM RESET	(SEE NOTES 1 AND 2 BELOW FOR ACTIONS)																

NOTES:
1. 'SYSTEM RESET' SHALL CLEAR ALL DETECTOR AND MANUAL ALARM SIGNALS, STOP AND RESET THE PRE-DISCHARGE COUNTDOWN, AND STOP TRANSMISSION OF ALL ALARM SIGNALS TO THE MAIN PANEL
2. SYSTEM SHALL BE PROGRAMMED SUCH THAT THE SYSTEM CAN BE RESET WHILE THE MANUAL ABORT BUTTON IS ACTIVATED.
3. SYSTEM SHALL HAVE A 3 BEAT TEMPORAL SOUND PATTERN.



1 E402 FIRE ALARM RISER DIAGRAM

NO SCALE

FIRE ALARM RISER NOTES:
1. FACP SHALL HAVE A MINIMUM 24HR. BATTERY BACKUP.
2. FACP SHALL BE CONNECTED TO A UL APPROVED CENTRAL STATION.
3. ZONE PER NFPA 72 AND MANUFACTURER'S RECOMMENDATIONS WITH NO ONE ZONE EXCEEDING 15,000 S.F. PER FLOOR.
4. SEE PLANS FOR EXACT DEVICE QUANTITY AND LOCATIONS.
5. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
6. LOCATE ANNUNCIATOR AS DIRECTED BY LOCAL OFFICIAL
7. ALL FIRE ALARM WIRING SHALL BE PLENUM-RATED.
8. FIRE ALARM DEVICES IN GUEST ROOMS SHALL COMPLY WITH F.B.C. AND NFPA 72.
9. PROVIDE ELEVATOR RECALL
10. VERIFY QUANTITY AND LOCATION(S) OF ALL TAMPER AND FLOW SWITCHES WITH SPRINKLER CONTRACTOR.

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Drawing Title
Fire Riser Diagram

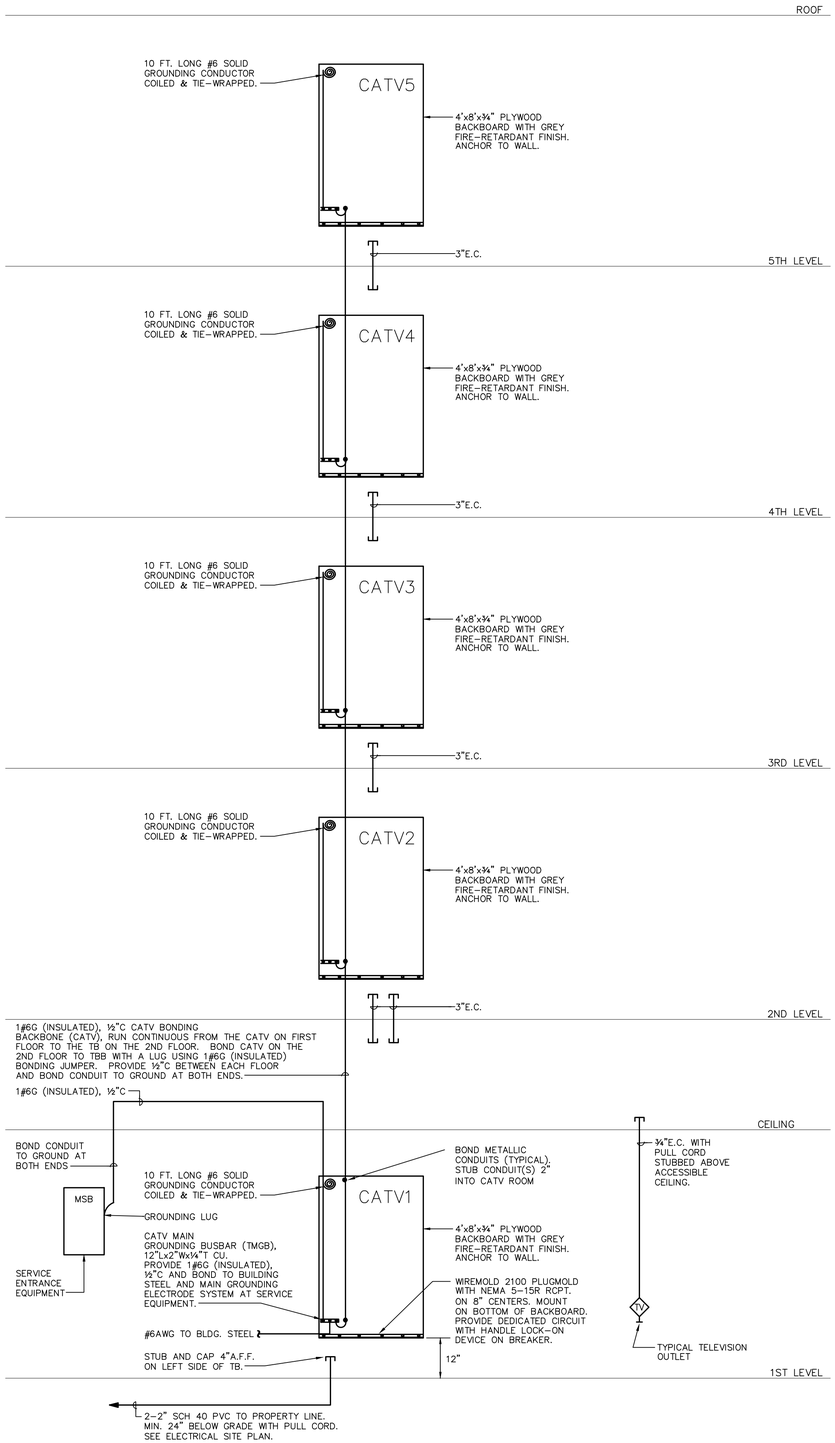
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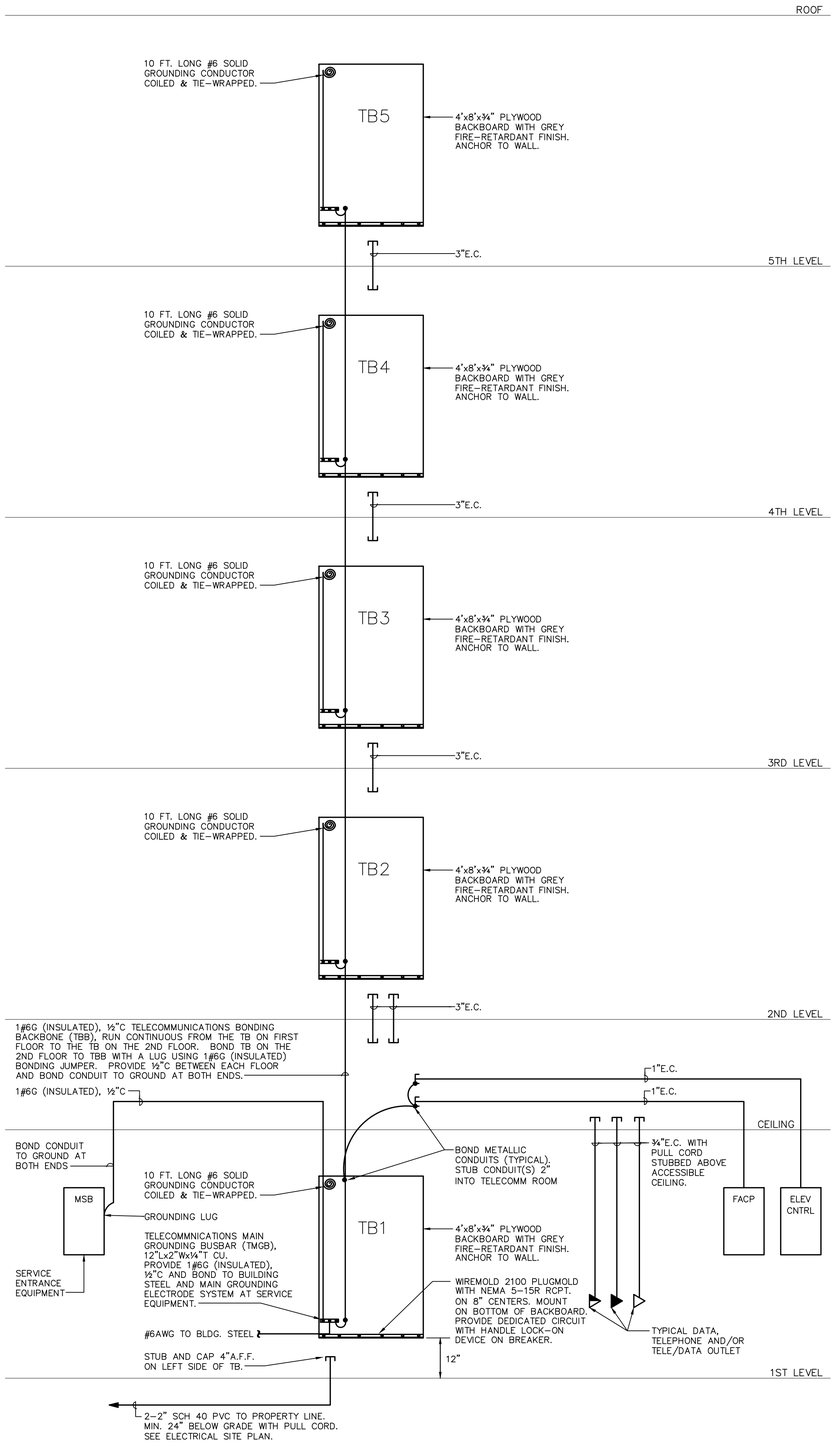
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CATV RISER DIAGRAM NOTES:
1. FLOOR PLANS INDICATE THE EXACT QUANTITY AND LOCATION OF ALL TELEVISION OUTLETS.
2. ALL TELEVISION WIRING AND EQUIPMENT SHALL BE PROVIDED BY THE OWNER'S CATV SUPPLIER.

2/E403 CATV RISER DIAGRAM
NO SCALE



TELE/DATA RISER DIAGRAM NOTES:
1. FLOOR PLANS INDICATE THE EXACT QUANTITY AND LOCATION OF ALL TELEPHONE AND/OR DATA OUTLETS.
2. ALL TELEPHONE AND/OR DATA WIRING AND EQUIPMENT SHALL BE PROVIDED BY THE OWNER'S TELE/DATA SUPPLIER.

1/E403 TELEPHONE RISER DIAGRAM
NO SCALE

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KEY PLAN

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Tru Hotel

5400 I-20 & Frontage Rd.
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Drawing Title
Telephone and CATV Riser Diagrams

Phase
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