



# Envelope Compliance Certificate

## 90.1 (2007) Standard

### Section 1: Project Information

Project Type: **New Construction**  
Project Title : The Crossing

Construction Site:  
64452 highway  
Pearl River, LA 70452

Owner/Agent:  
Sam Husser  
300 Butternut Drive  
Slidell, LA 70458  
suehusser@gmail.com

Designer/Contractor:  
Chuck Dammon  
Dammon Engineering  
554 Old Spanish Trail  
Slidell, LA 70458  
985-649-5832

### Section 2: General Information

Building Location (for weather data): **Pearl River, Louisiana**  
Climate Zone: **2a**  
Building Space Conditioning Type(s): **Nonresidential**

**Building Type** **Floor Area**  
Church (Religious Building) 7840

### Section 3: Envelope Assemblies

**Envelope PASSES: Design 4% better than code.**

#### Climate-Specific Requirements:

Component Name/Description	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor <sup>(a)</sup>
Roof 1: Attic Roof with Wood Joists	7840	29.0	30.0	0.017	0.027
Exterior Wall 1: Wood-Framed, 16" o.c.	1375	19.0	19.0	0.028	0.089

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

### Section 4: Compliance Statement

**Compliance Statement:** The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 3.9.3 and to comply with the mandatory requirements in the Requirements Checklist.

Chuck Dammon  
Name - Title

Chuck Dammon  
Signature

11-5-19  
Date

REVIEWED FOR  
STATE FIRE MARSHAL  
AS PER REVIEW LETTER  
BY: JOHN L. WHITAKER ARCHITECT  
John L. Whitaker





**COMcheck Software Version 3.9.3**  
**Exterior Lighting Compliance**  
**Certificate**

**90.1 (2007) Standard**

**Section 1: Project Information**

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 Project Title : The Crossing

Construction Site:  
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**Section 2: Exterior Lighting Area/Surface Power Calculation**

A Exterior Area/Surface	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B x C)	F Proposed Watts
Main entry/exit	2 ft of door width	30	Yes	60	8
				Total Tradable Watts* =	60
				Total Allowed Watts =	60
				Total Allowed Supplemental Watts** =	3

\* Wattage tradeoffs are only allowed between tradable areas/surfaces.

\*\* A supplemental allowance equal to 5% of total allowed wattage may be applied toward compliance of both non-tradable and tradable areas/surfaces.

**Section 3: Exterior Lighting Fixture Schedule**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)	
Main entry/exit (2 ft of door width): Tradable Wattage					
Incandescent 1: Incandescent 150W:	4	4	2	8	
				Total Tradable Proposed Watts =	8

**Section 4: Compliance Statement**

*Compliance Statement:* The proposed exterior lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 90.1 (2007) Standard requirements in COMcheck Version 3.9.3 and to comply with the mandatory requirements in the Requirements Checklist.

Chuck Dammon  
 Name - Title

Chuck  
 Signature

11-5-19  
 Date

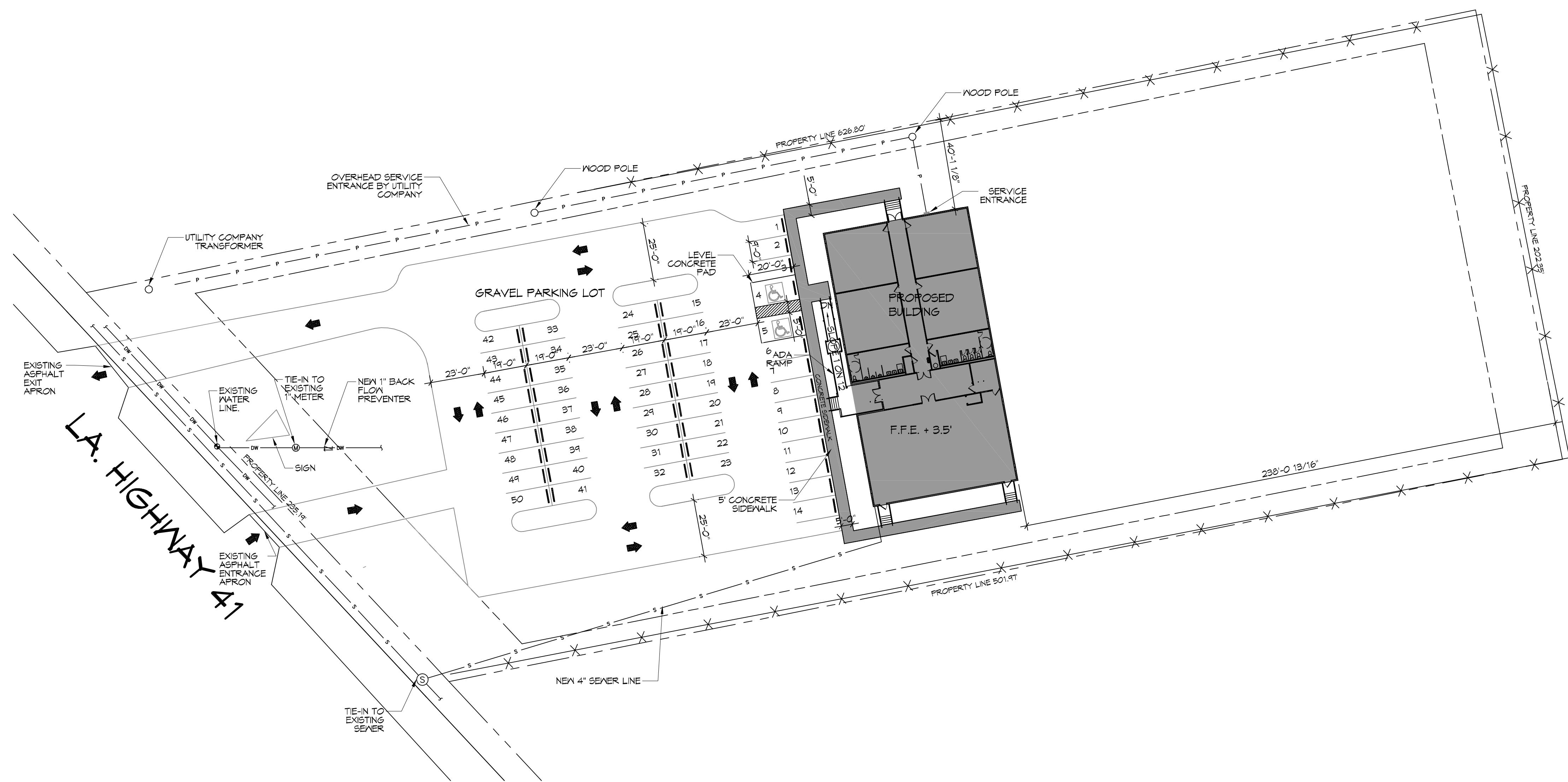
REVIEWED FOR  
 STATE FIRE MARSHAL  
 AS PER REVISED SECTION  
 BY: JOHN L. WHITAKER, ARCHITECT







THE OWNER: JAC... CONSULTING ENGINEERS... THE CONSULTING ENGINEER: JAC... CONSULTING ENGINEERS... THE DATE: 11/05/2018...

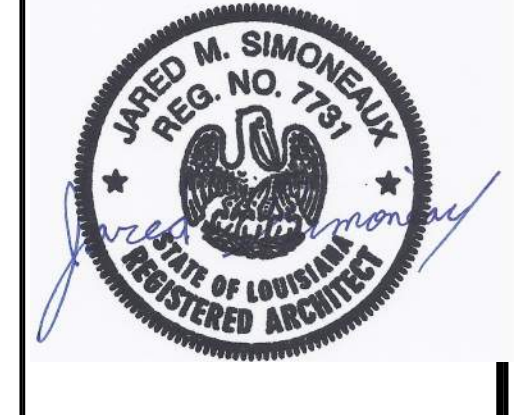


N  
**SITE PLAN**  
 SCALE: 1" = 30'  
 NEW SITE

<b>PLANNING</b>
ZONED 'B2' HAY COMMERCIAL
<b>FLOOD ZONE</b>
ZONE 'X'
<b>BUILDING SETBACK LINES</b>
FRONT - 35' SIDES - 10' REAR - 25'
<b>BUILDING ELEVATION</b>
BASE FLOOD ELEVATION = 0' FINISHED FLOOR ELEVATION = +3.5'
<b>PARKING</b>
1 SPACE PER 4 OCCUPANTS 176 SEATS / 4 = 44 PARKING SPACES REQUIRED 2 HANDICAP PARKING SPACES PROVIDED 48 REGULAR PARKING SPACES PROVIDED TOTAL PARKING SPACES PROVIDED 50
<b>SITE LIGHTING</b>
EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE BE CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.

**DAMMON ENGINEERING, INC.**  
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 PH: 985.649.2332, FX: 985.649.1290

#	DESCRIPTION	REVISIONS	DATE



**THE CROSSING**  
 64452 HIGHWAY 41,  
 PEARL RIVER, LA 70452  
 JOB No: 2804 DATE: 11/05/2018  
 DRAWN BY: JUS  
 RLD | CHECKED BY: JUS

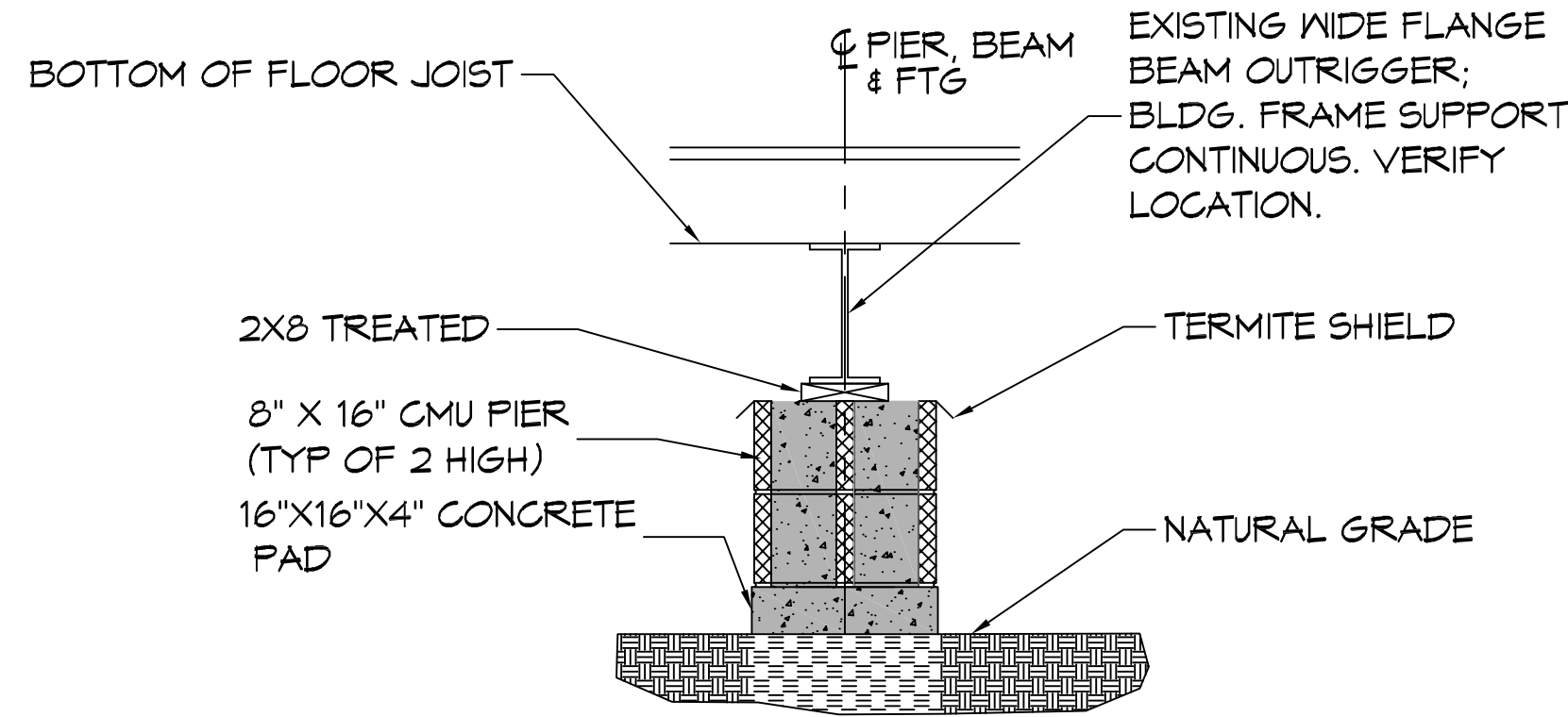
SHEET TITLE:  
 SITE PLAN  
 DRAWING NUMBER:  
**C101**  
 SHEET No: 3 of 13

REVIEWED FOR  
 STATE FIRE MARSHAL  
 AS PER REVIEW LETTER  
 BY: JOHN L. WHITAKER, ARCHITECT

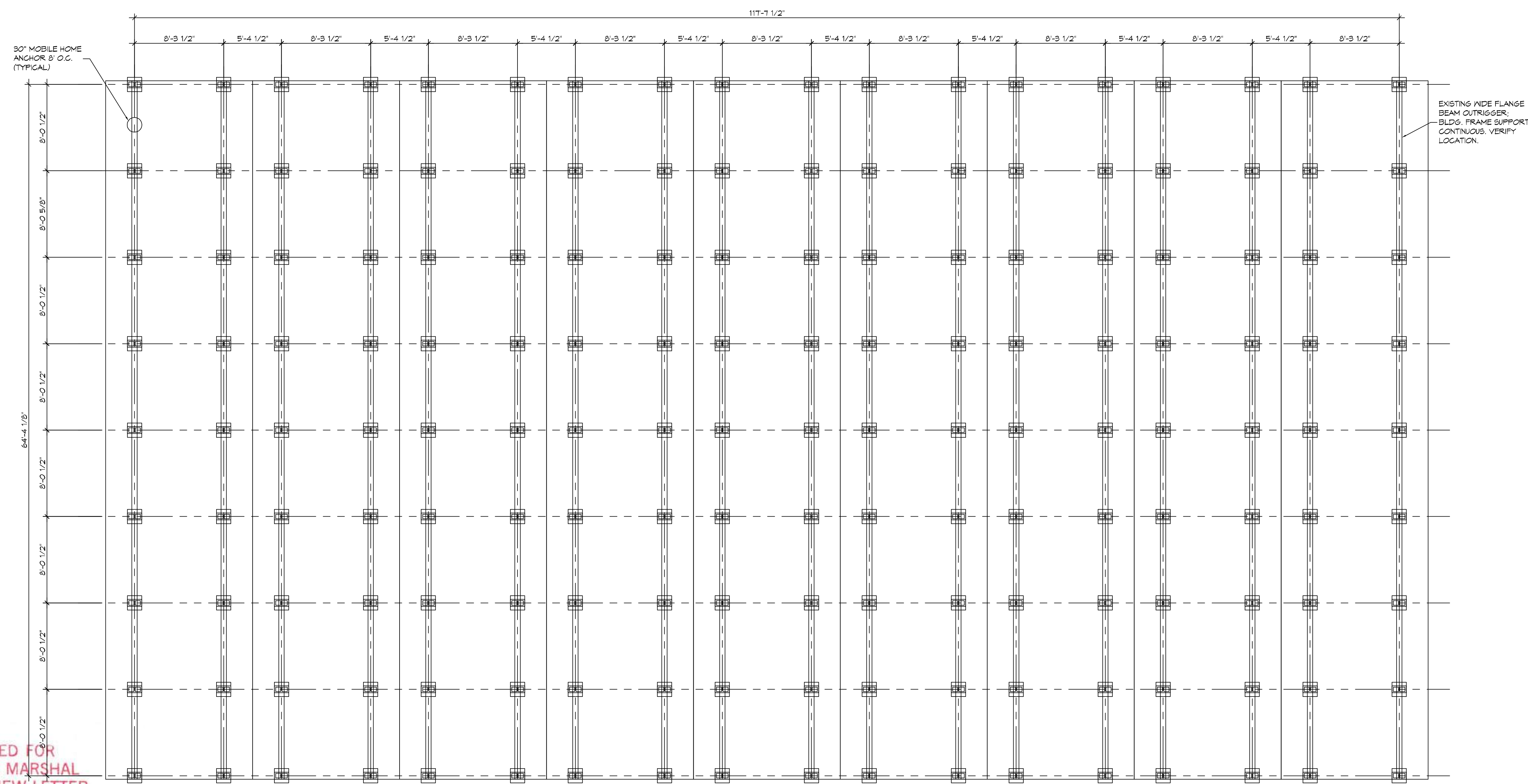
FILE NAME: A:\\_CAD\2015\3089 - The Crossing\Drawings\3101 - Foundation\Foundatn.Plot DATE: 8/26/15 11:05:41 AM

**GENERAL FOUNDATION NOTES**

1. THE CONTRACTOR SHALL VERIFY ALL BEAM BEAM LOCATIONS PRIOR TO INSTALLING PADS AND BLOCKS AND INSTALL ACCORDINGLY.
2. ALL SOIL BELOW SHALL RECEIVE TERMITE TREATMENT.



**FOUNDATION SECTION**  
SCALE: 1/2" = 1'-0"



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REVISIONS	DATE
# DESCRIPTION	



**THE CROSSING**

64482 HIGHWAY 41  
PEARL RIVER, LA 70482  
JOB No: 2584 DATE: 11/05/2014  
DRAWN BY: BAW  
CHECKED BY: CKD

SHEET TITLE:  
**FOUNDATION PLAN**

DRAWING NUMBER:  
**S101**

SHEET No: 4 of 13

REVIEWED FOR  
STATE FIRE MARSHAL  
AS PER REVIEW LETTER  
BY: JOHN L. WHITAKER ARCHITECT  
*John L. Whitaker*

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

FOUNDATION PLAN

FILE NAME: J:\PROJECTS\3030 - The Commons\Drawings\A101 - Floor Plans.dwg PLOT DATE: 11/05/2019 11:05:23 AM

DOOR SCHEDULE							
MK	WIDTH	HEIGHT	THK	DOOR MAT	FRAME MAT	FR	REMARKS
100A	(2)3'-0"	6'-8"	1-3/4"	ALUM/GLASS	ALUM	NR	ALUMINUM STOREFRONT WITH DOOR CLOSURE
100B	(2)3'-0"	6'-8"	1-3/4"	SOLID WOOD	STEEL	2 HR	WITH DOOR CLOSURE (2 HR FIRE RATING)
100C	3'-0"	6'-8"	1-3/4"	MASONITE	WOOD	NR	WITH DOOR CLOSURE
101	3'-0"	6'-8"	1-3/4"	MASONITE	WOOD	NR	WITH DOOR CLOSURE
102	3'-0"	6'-8"	1-3/4"	SOLID WOOD	STEEL	1 HR	WITH DOOR CLOSURE (1 HR FIRE RATING)

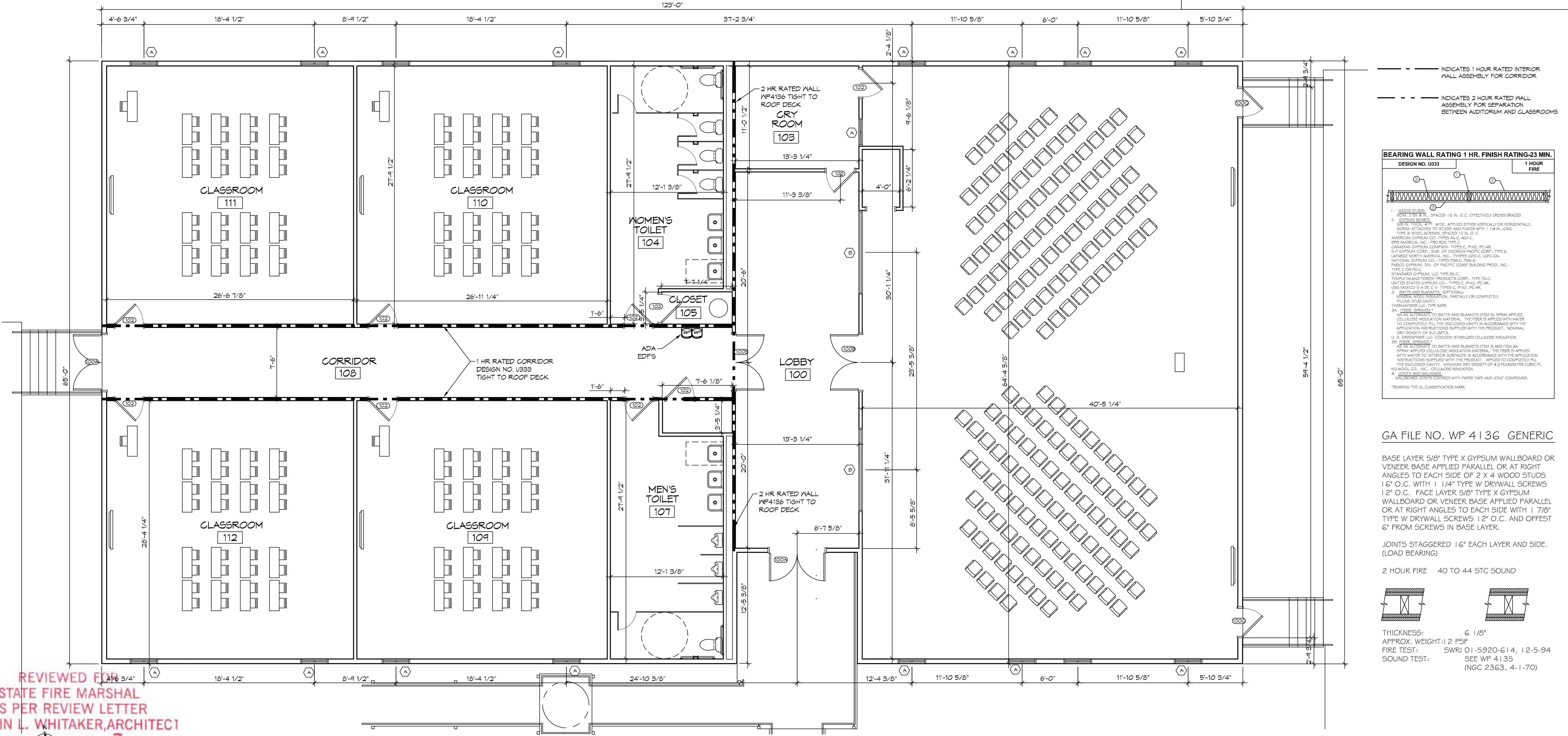
WINDOW SCHEDULE				
MK	SIZE	FRAME	TYPE	REMARKS
A	3'-0" W x 5'-0" H	ALUM	SLIDER	EXISTING TO REMAIN
B	11'-0" W x 5'-0" H	ALUM	FIXED	NEW WINDOW

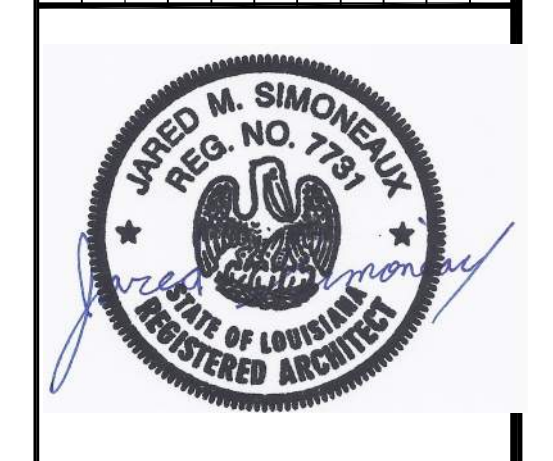
FINISH SCHEDULE						
ROOM NAME	ROOM NO	FLOOR	BASE	WALL	CEILING	REMARKS
LOBBY	100	VCT	VINYL	5/8" GYP BD	ACT	
AUDITORIUM	101	VCT	VINYL	5/8" GYP BD	ACT	
SOUND ROOM	102	VCT	VINYL	5/8" GYP BD	ACT	
CRY ROOM	103	VCT	VINYL	5/8" GYP BD	ACT	
WOMEN'S TOILET	104	CERAMIC TILE	CERAMIC TILE	5/8" GYP BD	ACT	MOISTURE RESISTANT
CLOSET	105	VCT	VINYL	5/8" GYP BD	ACT	
CLOSET	106	VCT	VINYL	5/8" GYP BD	ACT	
MEN'S TOILET	107	CERAMIC TILE	CERAMIC TILE	5/8" GYP BD	ACT	MOISTURE RESISTANT
CORRIDOR	108	VCT	VINYL	5/8" GYP BD	ACT	
CLASSROOM	109	VCT	VINYL	5/8" GYP BD	ACT	
CLASSROOM	110	VCT	VINYL	5/8" GYP BD	ACT	
CLASSROOM	111	VCT	VINYL	5/8" GYP BD	ACT	
CLASSROOM	112	VCT	VINYL	5/8" GYP BD	ACT	

- ### GENERAL PLAN NOTES
- INSULATION AND INSULATION ASSEMBLIES SHALL MEET THE REQUIREMENTS OF IBC 2015 SECTION 120.
    - CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 0-25 AND SMOKE DEVELOPED INDEX OF 0-450, EXCEPT THAT IN COMBUSTIBLE (WOOD FRAME) CONSTRUCTION.
    - FACING SHALL COMPLY WITH IBC 2015.
  - ALL MATERIALS SHALL BE NEW AND UL LISTED.
  - NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
  - CONSTRUCTION SHALL COMPLY WITH ALL PARISH, STATE, AND LOCAL CODES.
  - CONTRACTOR TO GUARANTEE WORK FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
  - CONTRACTOR SHALL FURNISH WATER AND POWER FROM EXISTING SOURCES.
  - EXTERIOR CAULKING SHALL BE THICK CAULK.
  - PAINT SHALL BE SHERWIN WILLIAMS OR EQUIVALENT AND APPROPRIATE FOR THE SUBSTRATE TO WHICH IT IS APPLIED AS RECOMMENDED BY PAINT MANUFACTURER. ALL WORK TO RECEIVE THREE COATS (ONE PRIMER COAT, TWO FINISH COATS) UNLESS OTHERWISE RECOMMENDED BY PAINT MANUFACTURER. COLORS TO BE SELECTED BY OWNER.
  - PROVIDE CLEANUP ON A REGULAR BASIS. NO TRASH SHALL BE STORED INSIDE BUILDING PREMISES.
  - ALL BATT INSULATION SHALL HAVE A CLASS "A" (0-25) FLAME SPREAD IN COMPLIANCE WITH IBC 2015.
  - USE 2x6 WOOD STUDS, OR TWO 2x4 WOOD STAGGERED STUDS WITH 2x6 SILL FLATE AT ALL WALLS WHERE 4" PIPE IS INDICATED. SEE PLUMBING RISER DIAGRAM FOR PIPE SIZE.
  - PROVIDE GALVANIZED METAL PAN WITH DRAIN AT ALL WATER HEATERS.
  - ALL FLOORING SHALL MEET OR EXCEED ADA GUIDELINES REQUIREMENTS FOR SLIP RESISTANCE.
  - INTERIOR LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL KNOWLEDGE, OR SPECIAL DEVICE TO OPEN IN THE DIRECTION OF EGRESS. ALL DOORS SHALL HAVE LEVER TYPE HANDLES.
  - INTERIOR WALLS AND CEILING SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPMENT RATING OF 0-450.
  - ALL NEW WORK SHALL COMPLY WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES COVERING THE TYPE OF WORK BEING PERFORMED.
  - PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 101, SEE APPENDIX 'E' OF NFPA 101 FOR DISTRIBUTION OF EXTINGUISHERS.
  - ALL FIRE WALLS SHALL EXTEND TIGHT TO ROOF DECK AND BE SEALED WITH AN APPROVED FIRE CAULK.
  - ALL ELECTRICAL, MECHANICAL, AND PLUMBING MATERIALS PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
  - SERVICE COUNTERS SHALL HAVE AN ACCESSIBLE WRITING SURFACE IN COMPLIANCE WITH ADAAG ACCESSIBILITY GUIDELINES 2010, SECTION 902.3.

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 Chief Engineer: Brian Mitchell, PE  
 554 Old Spanish Trail  
 Slidell, LA 70688



REVISIONS	DATE	DESCRIPTION



**THE CROSSINGS**  
 64452 HIGHWAY 41  
 PEARL RIVER, LA 70452  
 JOB No: 2584 DATE: 11/05/2019  
 DRAWN BY: RLD CHECKED BY: JAS

REVIEWED FOR STATE FIRE MARSHAL AS PER REVIEW LETTER BY: JOHN L. WHITAKER, ARCHITECT

**8 FLOOR PLAN**  
 SCALE: 3/16" = 1'-0"

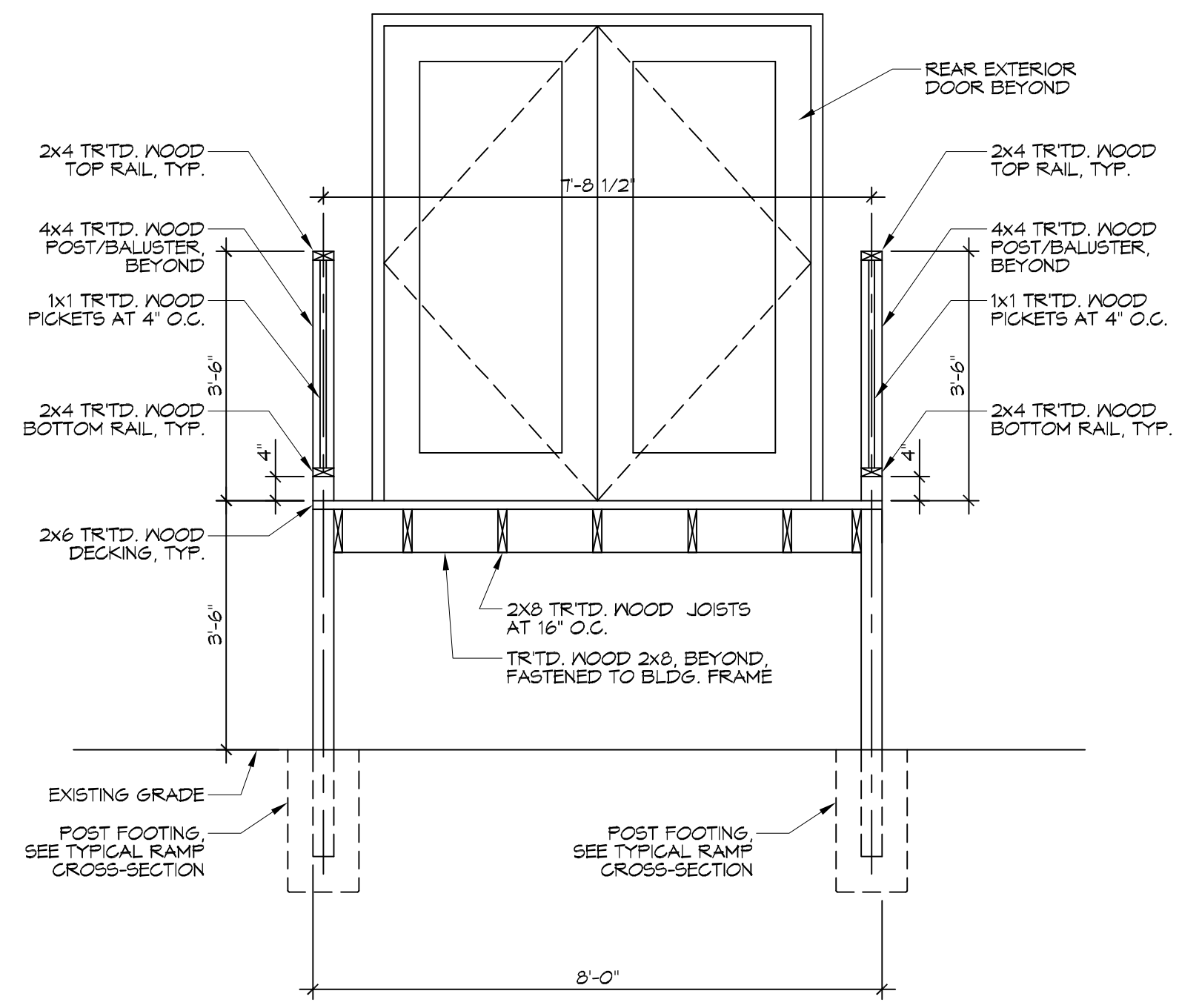
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DRAWING NUMBER: **A101**

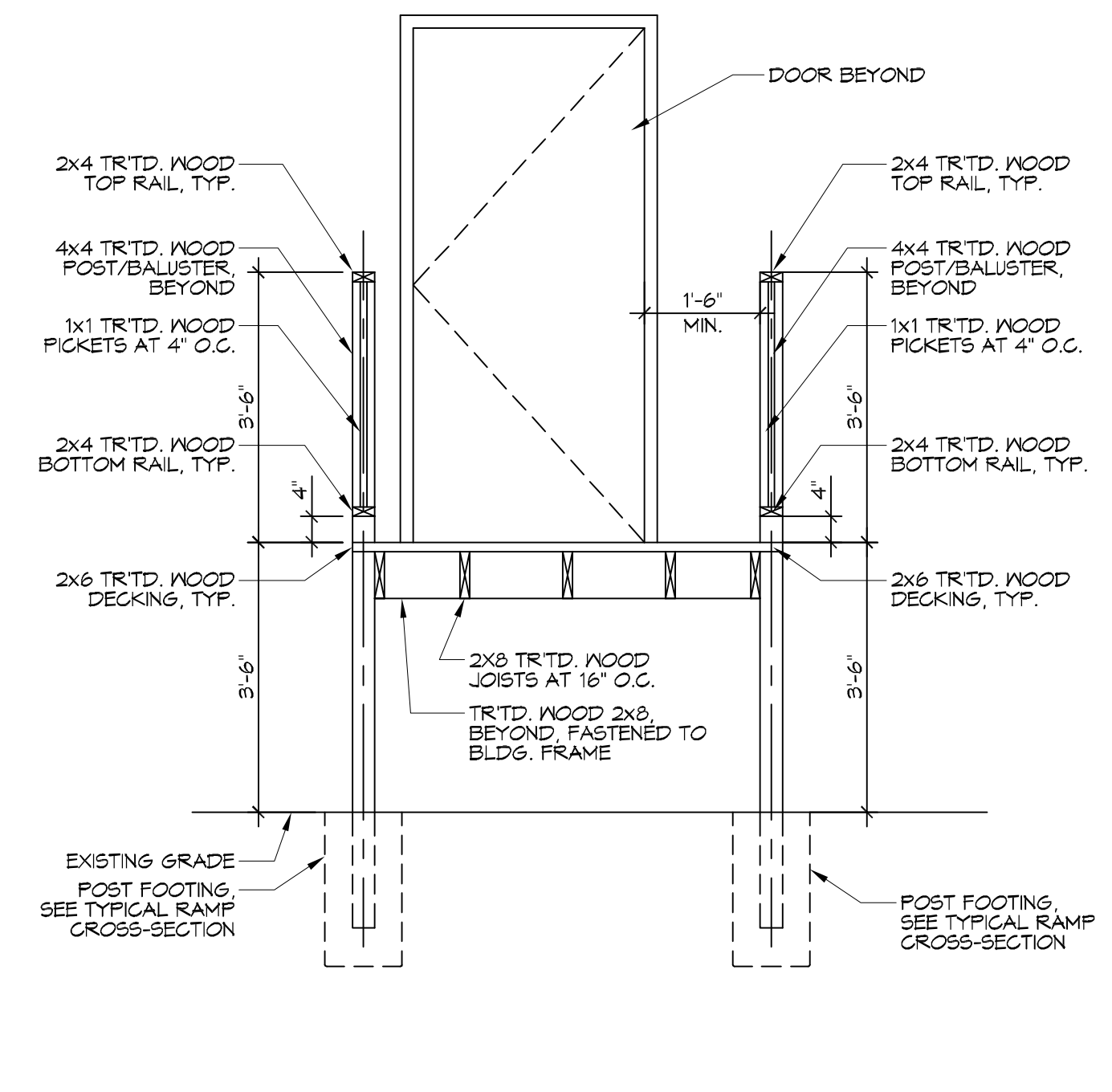
SHEET No: 5 of 13



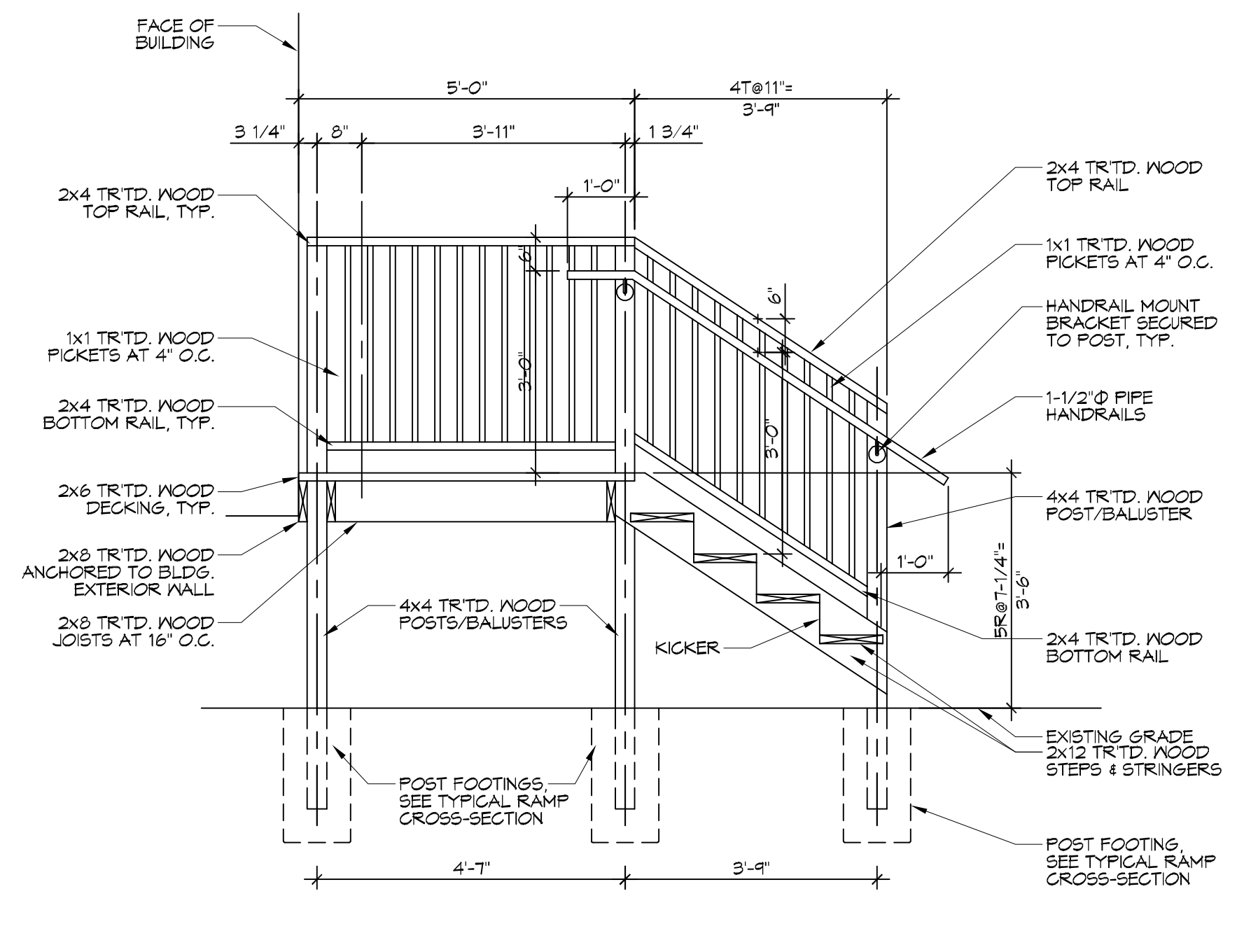
THE MATERIALS AND METHODS OF CONSTRUCTION SHOWN ON THESE DRAWINGS ARE BASED ON THE ASSUMPTIONS AND CONDITIONS SET FORTH IN THE SPECIFICATIONS AND CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL FIELD CONDITIONS AND FOR MAKING ANY NECESSARY ADJUSTMENTS TO THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL FIELD CONDITIONS AND FOR MAKING ANY NECESSARY ADJUSTMENTS TO THESE DRAWINGS.



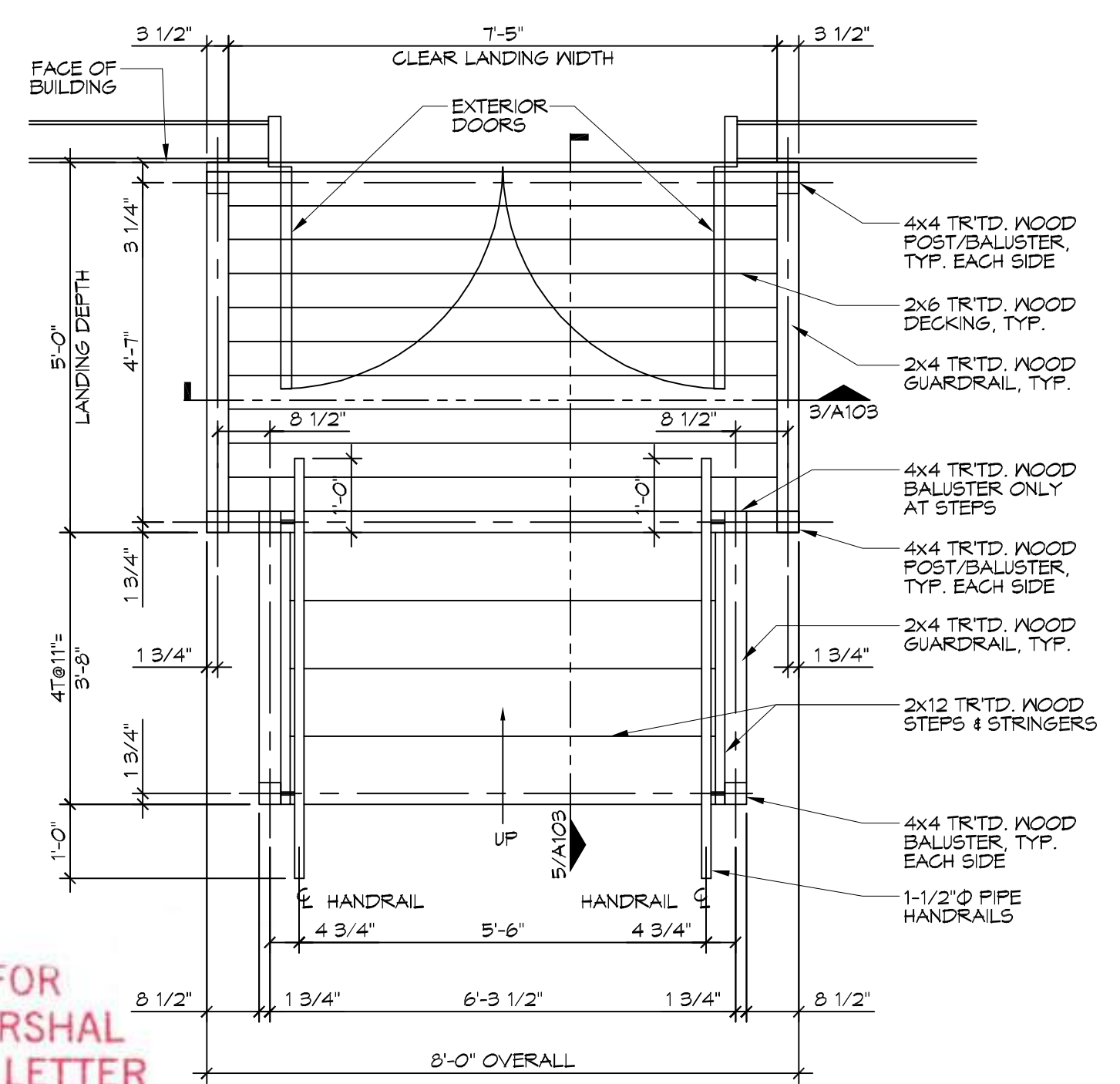
**16 PORCH SECTION**  
SCALE: 1/2"=1'-0" PORCH AT DOUBLE EXTERIOR DOOR



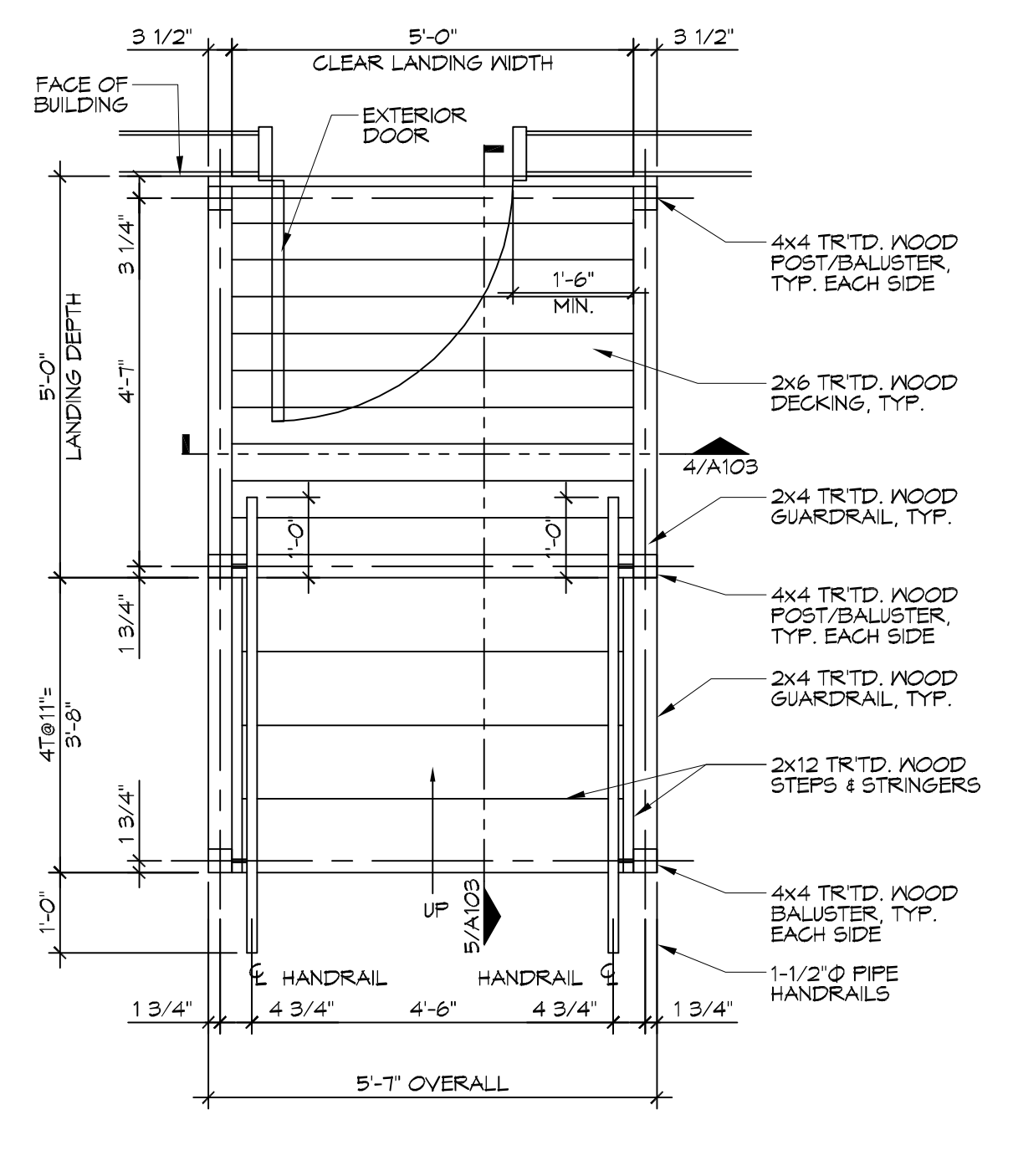
**17 PORCH SECTION**  
SCALE: 1/2"=1'-0" PORCH AT SINGLE EXTERIOR DOOR




**18 TYP. PORCH & STAIR SECTION**  
SCALE: 1/2"=1'-0" PORCH AT SINGLE OR DOUBLE EXTERIOR DOOR



**14 PORCH/STAIRS PLAN**  
SCALE: 1/2"=1'-0" PORCH & STAIRS AT DOUBLE EXTERIOR DOOR



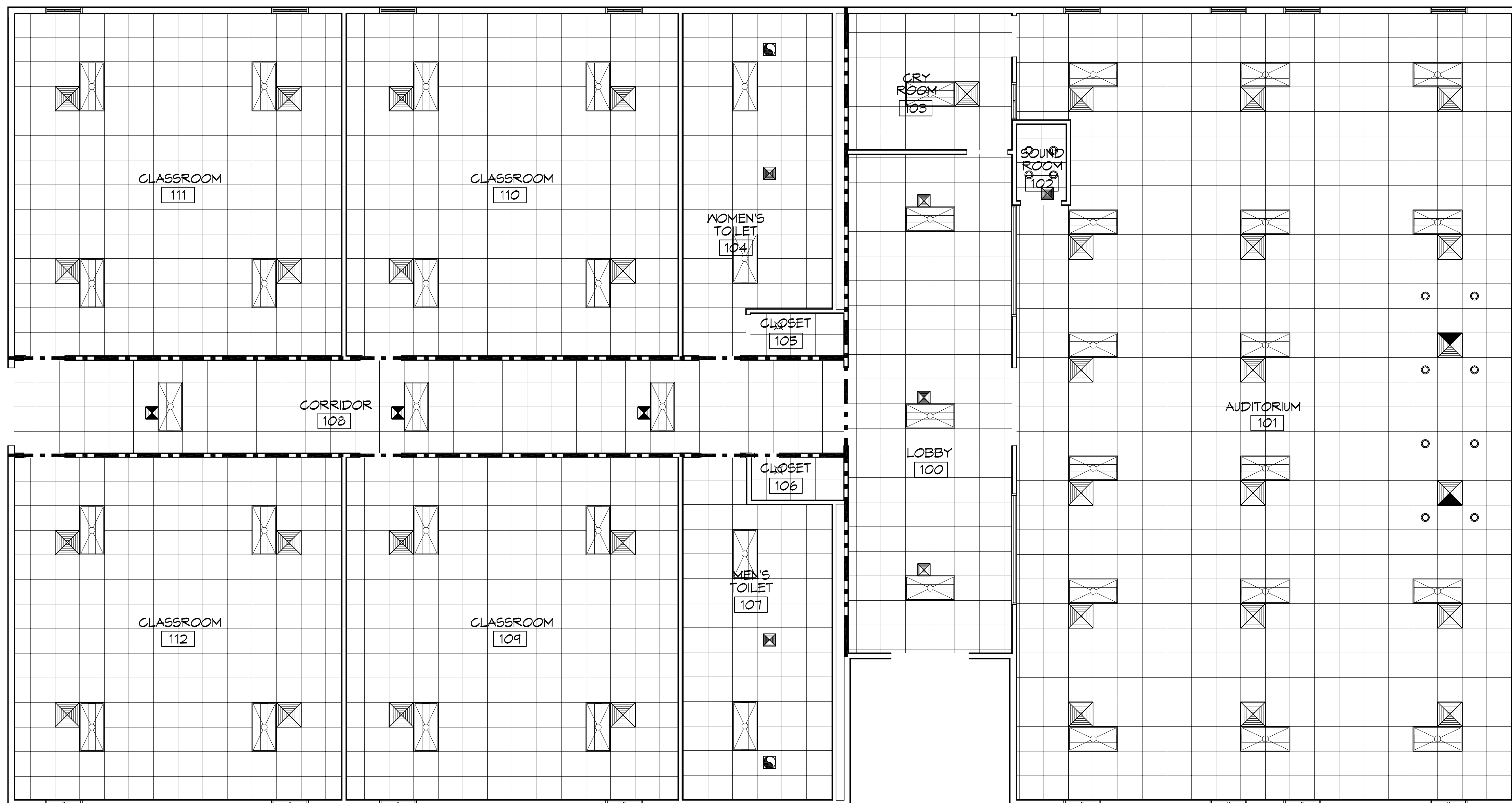
**15 PORCH/STAIRS PLAN**  
SCALE: 1/2"=1'-0" PORCH & STAIRS AT SINGLE EXTERIOR DOOR

REVIEWED FOR  
 STATE FIRE MARSHAL  
 AS PER REVIEW LETTER  
 BY: OHN L. WHITAKER, ARCHITECT  


#	DESCRIPTION	REVISIONS	DATE



**THE CROSSING**  
 64452 HIGHWAY 41,  
 PEARL RIVER, LA 70452  
 JOB No: 2854 DATE: 11/05/2018  
 DRAWN BY: RLD CHECKED BY: JUS  
 SHEET TITLE:  
 PORCHES & STAIRS -  
 PLANS & DETAILS  
 DRAWING NUMBER:  
**A103**  
 SHEET No: 1 of 13



**GENERAL  
RCP NOTES**

ALL CEILING HEIGHTS INDICATED ARE APPROXIMATE. ACTUAL CEILING HEIGHT TO BE DETERMINED BY STRUCTURE ELEVATION AND CEILING ASSEMBLY THICKNESS; HOWEVER OCCUPIABLE SPACES SHALL NOT HAVE A CEILING HEIGHT LESS THAN 7'-6" (PER IBC 1209.2).

**RCP LEGEND**

SYMBOL	DESCRIPTION
	2x4' SUSPENDED FLUORESCENT LIGHT FIXTURE
	2x2' SUSPENDED FLUORESCENT LIGHT FIXTURE
	DIRECTIONAL FLOOD LIGHT FIXTURE
	SURFACE MOUNTED FLUORESCENT STRIP LIGHT FIXTURE
	PENDANT LIGHT FIXTURE
	RECESSED CAN LIGHT FIXTURE
	SURFACE MOUNTED LIGHT FIXTURE
	EXHAUST FAN
	HVAC SUPPLY AIR DIFFUSER
	CHANDELIER

**DAMMON ENGINEERING, INC.**  
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PH: 985.999.2342, FX: 985.999.1290

Chief Engineer: Brian Mitchell, PE

REVISIONS	DATE
# DESCRIPTION	



**THE CROSSING**

64452 HIGHWAY 41,  
PEARL RIVER, LA 70452

JOB No: 2304 DATE: 11/05/2018  
DRAWN BY: RLD | CHECKED BY: JAS

**REFLECTED CEILING PLAN**  
SCALE: 3/16"=1'-0"

REVIEWED FOR  
STATE FIRE MARSHAL  
AS PER REVIEW LETTER  
BY: OHN L. WHITAKER, ARCHITECT

*John L. Whitaker*

SHEET TITLE:  
REFLECTED CEILING PLAN

DRAWING NUMBER:  
**A104**

SHEET No: 2 of 13



PTAC AIR UNIT SCHEDULE															
AIR HANDLER															
TAG	AREA SERVED	BARD MODEL NO.	NOMINAL TONS	TOTAL CFM	OA CFM	COOLING			Motor HP	ESP (" WC)	HEAT KW	POWER		REMARKS	
						TMBH	EDB	EWB				VAC	PH		MCA
AC-1	Auditorium - 101	WA423-A05M	3.5	1360	260	42	80.1	70.8	1/3	0.4	3.8	208	1	35	1, 2, 3, 4
AC-2	Auditorium - 101	WA423-A05M	3.5	1420	260	42	80.1	70.8	1/3	0.3	3.8	208	1	35	1, 2, 3, 4
AC-3	Auditorium - 101	WA423-A05M	3.5	1420	260	42	80.1	70.8	1/3	0.3	3.8	208	1	35	1, 2, 3, 4
AC-4	Auditorium - 101	WA423-A05M	3.5	1440	260	42	80.1	70.8	1/3	0.3	3.8	208	1	35	1, 2, 3, 4
AC-5	Classroom 109	WA423-A05M	3.5	1400	380	42	83.6	72.5	1/3	0.3	3.8	208	1	35	1, 2, 3, 4
AC-6	Classroom 110	WA423-A05M	3.5	1400	380	42	83.6	72.5	1/3	0.3	3.8	208	1	35	1, 2, 3, 4
AC-7	Classroom 111	WA423-A05M	3.5	1420	380	42	83.6	72.5	1/3	0.3	3.8	208	1	35	1, 2, 3, 4
AC-8	Classroom 112	WA423-A05M	3.5	1420	380	42	83.6	72.5	1/3	0.3	3.8	208	1	35	1, 2, 3, 4
AC-9	Lobby & Corridor	WA372-A05M	3	1100	220	36	80.5	69.7	1/3	0.3	3.8	208	1	32	1, 2, 3, 4

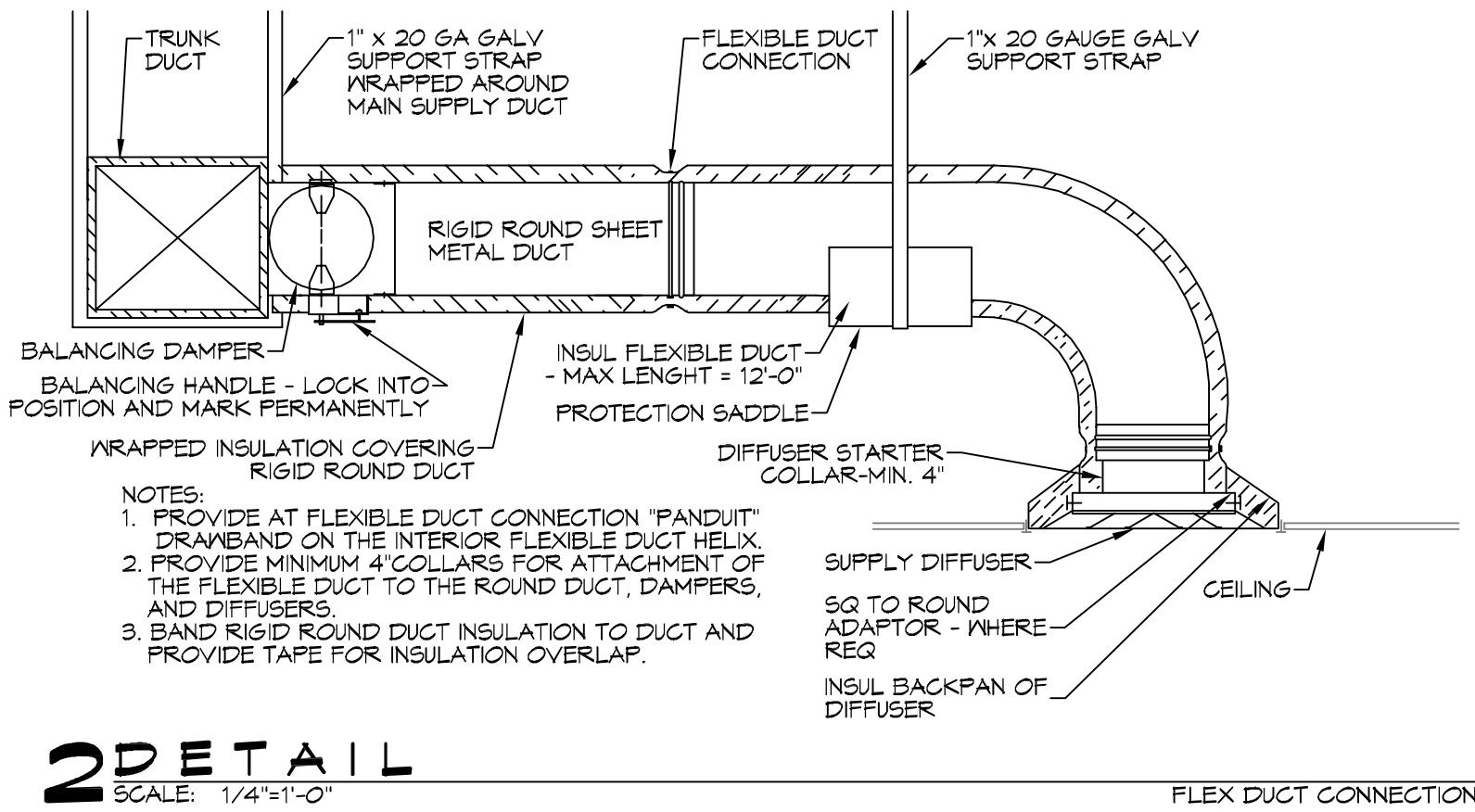
- NOTES:
- Provide washable filter media, single point power connection, crankcase heat, time delay relay & programmable 7/24 thermostat with lockable cover.
  - Cooling capacities to be rated in accordance with AHRI standard 210/290 for ASHRAE standard design weather conditions in New Orleans, LA.
  - Install units in accordance with manufacturer's recommendations.
  - Coordinate with Architect / Owner for colors and finishes.

DIFFUSER SCHEDULE				
Mark No.	Service	Neck Size	Description	
A	Supply Air	Ref. Plan	24"x24" plaque diffuser, Titus "Omni" or equal	
B	Supply Air	Ref. Plan	12"x12" plaque diffuser, Titus "Omni" or equal	

1. Coordinate with Architect / Owner for colors and finish.

Exhaust Fan Schedule									
Tag	Fan	Power	Make / Model		Remarks				
Airflow (CFM)	TSP ("wc)	Amps	RPM	Volts	Phase	Hz			
EF-1	250	0.25	2.1	905	120	1	60	Broan L250	1, 2

1. Install per Manufacturer's recommendations.  
2. Furnish with grille, speed control and backdraft damper.



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

### LEGEND

- SUPPLY AIR GRILLE
- TWO-WAY BLOW/DISCHARGE
- EXHAUST FAN
- THERMOSTAT
- SUPPLY AIR DUCT
- DAMPER CONTROL
- FIRE DAMPER
- ROUND FLEX DUCT, MAX LENGTH 12'-0", MIN. R-6, PROVIDE MAN. DAMPER AT DIFFUSER CONNECTIONS, DUCT SIZE AS FOLLOWS:  
280 CFM TO 350 CFM = 10"  
220 CFM TO 280 CFM = 8"  
150 CFM TO 200 CFM = 7"  
100 CFM TO 150 CFM = 6"

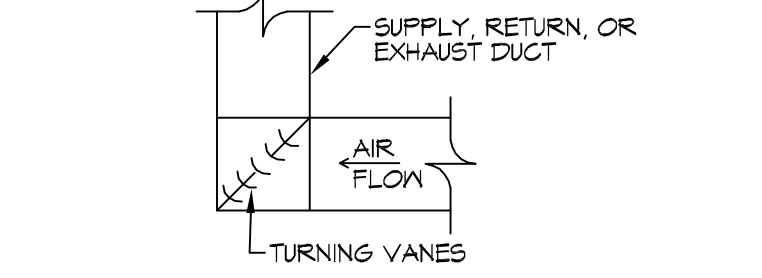
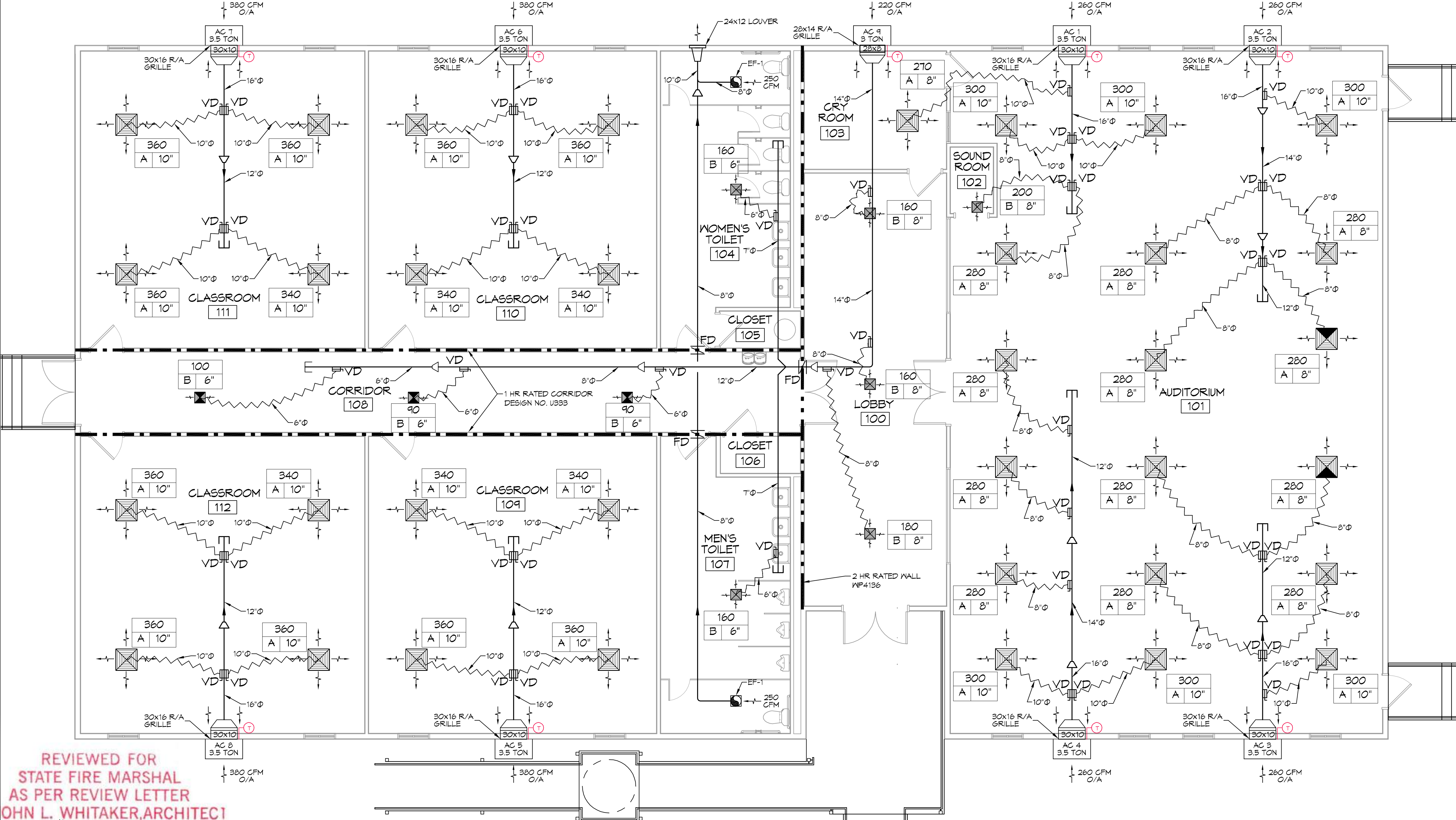
- ### MECHANICAL HVAC NOTES
- ALL WALL MOUNTED AHU'S UNITS ARE EXISTING AND ARE TO BE RE-USED WITH NEW DUCTWORK. ALL NEW DUCTWORK IS DRAWN DIAGRAMMATICALLY AND SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND INSTALLATION.
  - CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
  - EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
  - ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
  - DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
  - IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
  - PROVIDE UL LISTED 125 F° FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
  - PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
  - CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBERS P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
  - ALL THERMOSTATS TO BE AUTOMATIC CHANGE-OVER WITH HEAT SWITCH.
  - ALL RESTROOM EXHAUST FAN(S) SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
  - ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
  - FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
  - ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
  - ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
  - FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0".
  - REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED.
  - FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
  - PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJ'S. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR, IF REQUIRED.
  - FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
  - PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
  - CONTRACTOR SHALL PROVIDE A MEANS FOR ATTIC VENTILATION FOR THE MOVEMENT OF AIR ABOVE DROP CEILING(S) EITHER BY MECHANICAL VENTS OR POWER VENTS.

# DAMMON ENGINEERING, INC.

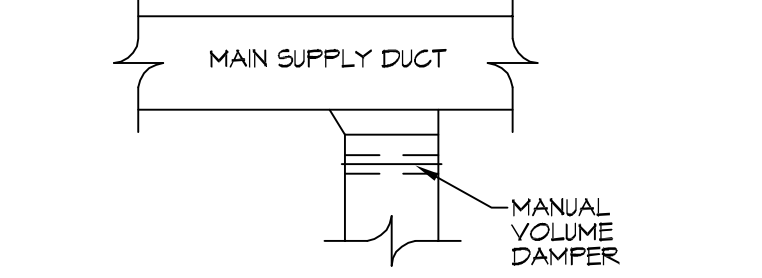
LOUISIANA & MISSISSIPPI

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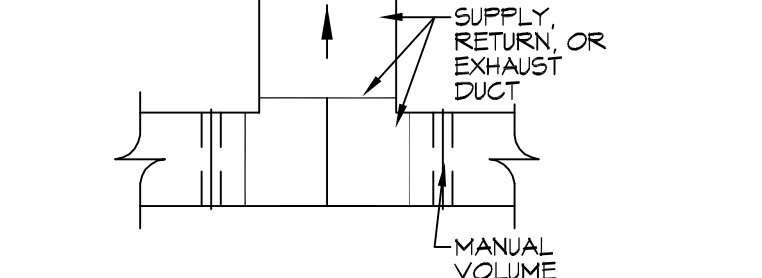
REVISIONS	DATE



**3 DETAIL**  
SCALE: 1/4"=1'-0"  
HARD DUCT ELBOW



**4 DETAIL**  
SCALE: 1/4"=1'-0"  
HARD DUCT BRANCH



**5 DETAIL**  
SCALE: 1/4"=1'-0"  
HARD DUCT SPLIT

REVIEWED FOR STATE FIRE MARSHAL AS PER REVIEW LETTER BY: OHN L. WHITAKER, ARCHITECT

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

THE CROSSINGS

64452 HIGHWAY 41, PEARL RIVER, LA 70452  
JOB No: 2584 DATE: 11/05/2018  
DRAWN BY: RLD CHECKED BY: CND

SHEET TITLE: MECHANICAL PLAN

DRAWING NUMBER: **M101**

SHEET No: 10 of 13

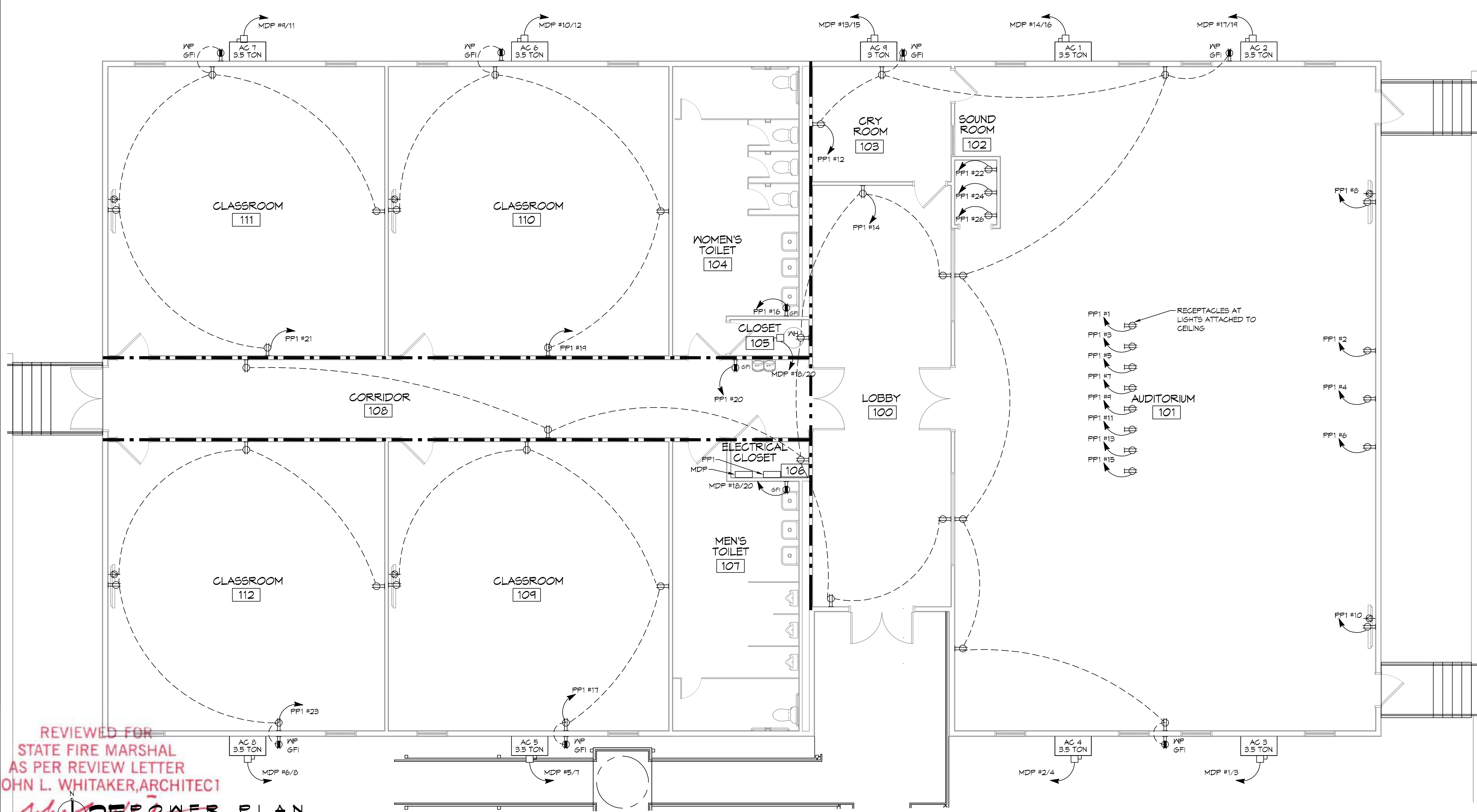
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### LEGEND

SYMB	DESCRIPTION
	STANDARD 120V DUPLEX RECEPTACLE, NEMA 5-2 OR 18" AFF (UNLESS OTHERWISE NOTED)
	STANDARD 120V DUPLEX RECEPTACLE, ABOVE COUNTER HT.
	SINGLE-POLE DEDICATED RECEPTACLE - REFER TO PANEL SCHEDULE FOR CIRCUIT SIZE
	GFCI DUPLEX RECEPTACLE
	GFCI QUAD RECEPTACLE
	220V ELECTRIC DRYER RECEPTACLE - MOUNTED AT 30" AFF
	220V DEDICATED GFCI RECEPTACLE
	WEATHER-PROOF GFCI DUPLEX RECEPTACLE MOUNTED AT 30" AFF (UNLESS OTHERWISE NOTED)
	STANDARD 120V DUPLEX RECEPTACLE - FLOOR OR CLG. MOUNTED
	STANDARD QUAD RECEPTACLE - WALL-MOUNTED
	STANDARD QUAD RECEPTACLE - FLOOR MOUNTED
	125V 15 AMP DUPLEX-USB 5VDC 3 AMP HUBBELL USB CHARGER RECEPTACLE
	125V 15 AMP QUADPLEX-USB 5VDC 3 AMP HUBBELL USB CHARGER RECEPTACLE
	JUNCTION BOX
	GENERATOR BATTERY CHARGER
	2-BUTTON PUSH BUTTON STATION
	COAX-CABLE CONNECTION FOR TELEVISION
	WALL MOUNTED DATA OUTLET
	FLOOR DATA OUTLET
	POWER DISCONNECT
	WATER HEATER ON DECK OR MEZZANINE ABOVE - SIZE AS NOTED ON PLAN
	EXHAUST FAN - SEE MECH.

**NOTES:**  
 1. CONNECT ALL EMERGENCY/EXIT LIGHT FIXTURES TO NEAREST CONSTANT POWER SOURCE.

- ### GENERAL POWER NOTES
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
  - ALL MATERIALS FURNISHED SHALL BE NEMA AND SHALL BE U.L. LISTED.
  - THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
  - PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
  - ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
  - WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE.
  - ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
  - PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
  - MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE 3/4" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, AND 3/4" RIGID ALUMINUM FOR EXTERIOR USE. USE NON-METALLIC CABLE (NMC) CABLE COPPER, FOR LIGHTS AND RECEPTACLE CIRCUITS IN WOOD FRAME CONSTRUCTION AREAS ONLY; IN STEEL FRAMING AREAS THE USE OF EMT (MINIMUM) IS REQUIRED; EXTERIOR FITTINGS SHALL BE CAST BOXES AND COVERS; INTERIOR FITTINGS SHALL BE STAMPED BOXES.
  - CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
  - INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF.
  - BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-65, NFRF 250-23, 250-11 & 250-12.
  - GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
  - FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
  - PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHAL AND THE FIRE DISTRICT.
  - EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ADJUTING PROPERTY LINE.
  - ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
  - VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.



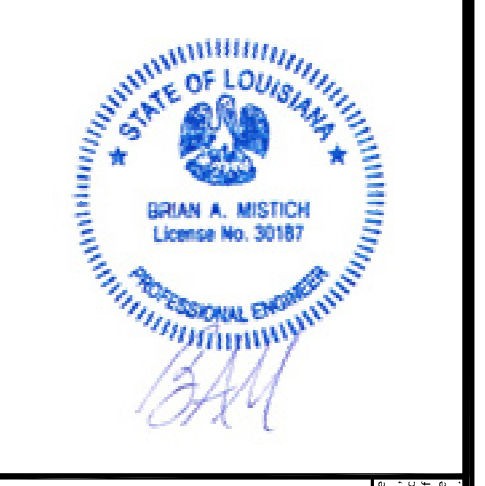
# DAMMON

## ENGINEERING, INC.

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#	DESCRIPTION	DATE



## THE CROSSING

64452 HIGHWAY 41,  
 PEARL RIVER, LA 70452  
 JOB No: 2584 DATE: 11/05/2015  
 DRAWN BY: B.M. CHECKED BY: R.L.D.

SHEET TITLE:  
**POWER PLAN**

DRAWING NUMBER:  
**E101**

SHEET No: 11 of 13

REVIEWED FOR  
 STATE FIRE MARSHAL  
 AS PER REVIEW LETTER  
 BY: JOHN L. WHITAKER, ARCHITECT

25

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



