Council Chambers A/V Upgrades RFP

Q&A

Q1 – Is the intent to add new power/cabling at floor or wall?
A1 – New power/cabling/conduit should be located in walls, millwork and/or ceiling locations. Not intended to trench concrete for new power/data locations.

Q2 – What type of content is expected to be displayed on monitors?
A2 – Spreadsheets, maps, documents with text and typical content associated with court and city council meetings.

Q3 – Are alternates allowable?
A3 – The vendors may suggest alternate solutions to the information/diagram provided in the RFP document.

Q4 – Can devices be wireless?
A4 – Yes

Q5 – Is an assisted listening system (ALS) required?
A5 - Yes

Q6 – Where will Zoom or remote calls be controlled?
A6 – Remote calls should be controlled at the city clerk seat at the dais.

Q7 – Is cable tv required?
A7 - No

Q8 – Is meeting recording required?
A8 - Yes

Q9 – What is maximum number of attendees?
A9 – Seating shown on provided floor plan diagram.

Q10 – Can existing conduit be reused?
A10 - Yes

Q11 – Will there be interruptions in AV installation for city meetings/events?
A11 – No, city will provide a schedule of events to coordinate AV installation around events, or will reschedule events to avoid interruptions.

Q12 – Is the city council space considered historical?
A12 – No

Q13 – Is there a completion date required?
A13 – No, please provide a proposed completion schedule in your response.

Q14 – Are existing building drawings available?
A14 – Yes, included in this addendum.

Q15 – What is required monitor size at dais?
A15 – Existing monitor size, or slightly larger is acceptable. Monitor to have stand (not attached to dais).

Q16 – Should existing ceiling speakers be replaced?
A16 – Speakers are intended to be replaced. Deduct alternate is acceptable if existing speakers are evaluated and found to be in good working condition.

Q17 – Is an interactive smart monitor required?
A17 – No, interactive monitor is not intended.

Q18 – What is the source of video input?
A18 – Typically a flash drive with a video file.

Q19 – Are ceiling tiles available in attic stock?
A19 – Yes, a limited number of attic stock ceiling tiles are available.

Q20 – Does the city have an IT staff member on-site?
A20 – No, AV system should be easily controlled by users.

Q21 – Is there an establish budget?
A21 – No.

Q22 – Can the rear wall displays be increased in size and eliminate the side displays?
A22 – Yes, city is open to alternates.

Q23 – Should lighting be controlled by AV system?
A23 – No, existing lighting controls (switches) to remain.

Q24 – Is AV required in attorney rooms within city council room?
A24 – No.

Q25 – What is the city's fiscal year?
A25 – July 1 – June 30.

Q26 – What is anticipated award schedule?
A26 – Selection within 90 days.

Q27 - In the PROPOSAL RESPONSE DATE AND LOCATION section**,** it states 'One (1) original and seven (4) copies of the proposal must be submitted to allow for evaluation.' Should it be Seven or Four copies?
A27 – Provide 1 original and 4 copies.

Q28 - Is the Contractor Affidavit form what you need completed for # 11. Completed E-Verify Form indicating compliance with federal and state requirements? Or is this a different form?
A28 – Please complete attached E-Verify Form

Q29 - Are the cameras requested for the web conference calls only?
A29 – Cameras are for recording the meeting and web conference calls.

Q30 - Do you desire to record the sessions? Do you stream the sessions out to your website or Facebook etc?
A30 – Will record sessions and stream or post content to website.

Q31 - Do you use the partitioned space in the back between the two offices? Does it have any audio or video needs when the partition is closed?
A31 – No, this space is rarely partitioned off and does not require any AV.

Q32 - Do you close off the DAIS area with its partition? Is so, do we need audio, video and control in the partitioned off main area?
A32 – Dais is rarely partitioned off from main area, and has been discussed to remove the operable partition entirely in the future.

Q33 - Are there any requirements for a voting system at the DAIS seats?
A33 – No.

Q34 - Are all displays and DAIS monitors going to be showing the same video signal, or do we need to split them up? (i.e. public monitors vs DAIS monitors)
A34 – All public displays to show the same content. Dais monitors may have the option to show different content, but not required.

Q35 - Do you desire the new AV equipment to be in a furniture-grade rack in the same location as it is now? The new system will not be able to fit in that existing cabinet. Or is there another preferred location?
A35 – Provide furniture-grade rack in the same location.

Q36 - If displays are going to be wall mounted, what type of material is the wall made of?
A36 – See attached existing building drawings that show building construction.

Q37 - Is there power located where the display(s) will be placed?
A37 – No, intent is for your proposal to add power where required if not already available.

Q38 - Is there a network drop located where the display will need to be placed? Or will you be utilizing Wi-Fi connection instead?

A38 – Your proposal may provide a network drop where required or utilize a wireless connection.

Q39 - Do you already have licenses for the conferencing platform you are utilizing (Zoom, Teams, or others)? If so, which one(s) do you use?
A39 – Yes, Zoom is utilized.

Q40 - Is it your preference to have mics located on the table or in ceiling (drop ceiling required if so)? Or can mics be mounted to the walls since ceilings are 15' in height in the City of Oxford Courtroom?
A40 – Wireless mics so that they can be utilized at podiums or tables.

Q41 - 2x2 Window Matrix – In the section regarding remote participants, it mentions a "2x2 window matrix" for video presentation input. Just to clarify, platforms like Zoom or Teams typically adjust the video layout dynamically based on the number of participants and who is speaking. A constant 2x2 matrix (i.e., four participants always shown on screen simultaneously) would generally require separate streams or an advanced system to maintain that layout. Are you requesting a static 2x2 layout, or will the system support standard video conferencing with dynamic participant views? If a fixed layout is required, we'll design around this by utilizing multiple concurrent Zoom/Teams feeds.
A41 – 2x2 window matrix is not required.

Q42 - Ceiling Array Microphone – The RFP specifies a "ceiling array microphone," and I would like to clarify which areas you intend to capture audio from. Are these microphones intended for audience sound capture, for the dais, the podium, or the front tables? Understanding this will help us with the proper placement and integration into the overall system design.
A42 – intention is for Zoom/remote participants to hear sound from the dais, podiums, tables and the audience. It may be that all but the audience is already captured with microphones.

Q43 - Ceiling Height and Room Dimensions – Could you also provide the ceiling height and room dimensions? These details are crucial for accurately specifying and calibrating the ceiling array microphones, ensuring optimal audio capture and system performance.
A43 – See attached building drawings.

R-2
IRRIGATION PUMP. SEE CIVIL DRAWING FOR THE EXACT LOCATION.

MOUNT TRANSFORMER ON CONCRETE PAD.

POWER TRANSFORMER

HP1-1 HP1-2 HP1-3 HP1-4A CU1-5
HP1-4B HP1-4C HP1-4D
CO-ORDINATE FINAL LOCATION WITH ARCHITECT
VERIFY THE REFRIGERANT LINE LENGTH.
HP2-1 HP2-2 HP2-3 CU2-3 HP-1-6

SEE ELECTRICAL PANEL SCHEDULE FOR POWER FOR CONDENSING UNITS.

TRANSFORMER

WP

L1-26
MAIN DISCONNECT SWITCH AND METER

COORDINATE WITH "DIEBOLD" EQUIPMENT SUPPLIER AND PROVIDE NECESSARY CONDUITS.

DEDICATED CIRCUIT FOR AIR COMPRESSOR

SPRINKLER 127
COMMUNITY ROOM/ COUNCIL ROOM/ COURT ROOM 124
EXEC. SESSION CONFERENCE/ JUDGE'S OFFICE 116
2' X 8' PLYWOOD TELEPHONE BOARD
HALLWAY 114
ELECTRICAL MDP/TELEPHONE 115
MDP
PANEL "P1" PANEL "R1" PANEL "L1"
ELEVATOR LOBBY 113
STORAGE 112
PNL "R"
FLOOR OUTLET
MAYOR 109
SERVER
COPY/FAX
COFFEE 110
WATER HEATER
STAFF 111
UC REF
HALL 117
CATERING AREA 118
REF ICE
SOUND
JAN. 120
MEN 121
WOMEN 122
CORRIDOR 123
GALLERY 102
COORDINATE HT WITH OWNER/ARCHITECT
LOBBY/ WAITING 103
STAIR LOBBY 101
ADMIN. 106
FIRE STAIR 105
CITY MANAGER 107
CONFERENCE 104
ATTORNEY/ WITNESS 125
ATTORNEY/ WITNESS 126

(1) ELECTRIC POWER FOR ELECTRONIC FAUCET
(2) ELECTRIC HAND DRYER. SEE ARCHITECT'S DRAWING FOR SPECIFICATION
(3) CO-ORDIANTE WITH DIEBOLD EQUIPMENT SUPPLIER

CONTRACTOR SHALL REROUTE EXISTING CITY HALL UTILITIES SO THAT THE EXISITNG CITY HALL STAYS IN OPERATION DURING THE CONSTRUCTION OF THE NEW CITY HALL. THIS INCLUDES SEWER, POWER, TELEPHONE, WATER, CABLE TV, AND GAS.

FIRST FLOOR PLAN-POWER
1/4"=1'-0"

MONUMENT SIGN

ISSUED FOR CONSTRUCTION. DATE: 04-30-2009

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

CONSULTANTS
Date Plotted : Sep 16, 2009 - 11:01am
File: 2008-06/E1.DWG

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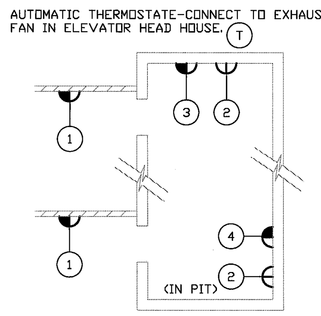
SEAL
GEORGIA REGISTERED No. 15330 PROFESSIONAL ENGINEER

CITY OF OXFORD GEORGIA
New City Hall

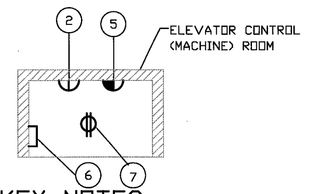
SHEET TITLE: FIRST FLOOR PLAN POWER
PRINTED:
NUMBER: E-1



GENERAL NOTES

A. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE SEALED WITH A LISTED FIRE SEALING ASSEMBLY.

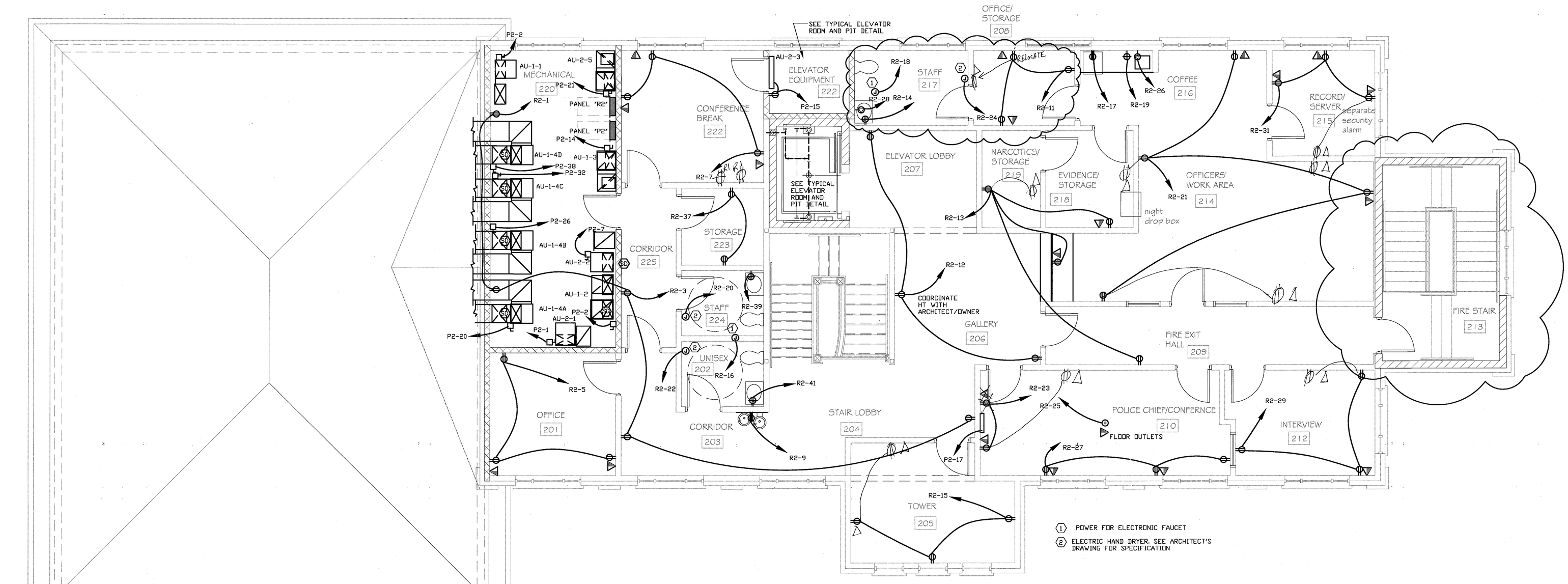
B. ALL FIRE ALARM DEVICES SHOWN SHALL BE PART OF THE BUILDING FIRE ALARM SYSTEM.



KEY NOTES

1. LOBBY PHOTO ELECTRIC SMOKE DETECTOR WITH AUXILIARY FORM 'C' CONTACTS. 2#14 WIRES IN ¾"C TO ELEVATOR CONTROL PANEL FOR ELEVATOR RECALL.
2. HEAT DETECTOR WITH 120VOLT AUXILIARY FORM 'C' CONTACTS. ALL HEAT DETECTORS SHOWN ON THIS DETAIL SHALL BE INTERLOCKED WITH THE SHUNT TRIP CIRCUIT BREAKER. OPERATION OF ANY OF THE HEAT DETECTORS SHALL OPEN THE SHUNT TRIP BREAKER. 135 DEG. FIXED HEAT DETECTORS SHALL BE RATED FOR AT LEAST 25 FOOT SPACING AND SHALL BE WITHIN 5 FEET OF SPRINKLER HEAD.
3. PHOTO ELECTRIC SMOKE DETECTOR WITH AUXILIARY FORM 'C' CONTACTS AT TOP OF ELEVATOR SHAFT FOR ELEVATOR RECALL INSTALL 2#14 IN ¾"C TO ELEVATOR CONTROL PANEL.
4. PHOTO ELECTRIC SMOKE DETECTOR WITH AUXILIARY FORM 'C' CONTACTS IN ELEVATOR PIT FOR ELEVATOR RECALL. INSTALL 2#14 IN ¾"C TO ELEVATOR CONTROL PANEL.
5. PHOTOELECTRIC SMOKE DETECTOR WITH AUXILIARY FORM 'C' CONTACTS IN ELEVATOR MACHINE ROOM FOR ELEVATOR RECALL INSTALL 2#14 IN ¾"C TO ELEVATOR CONTROL PANEL.
6. ENCLOSED SHUNT TRIP CIRCUIT BREAKER FOR ELEVATOR SHUT DOWN. 120 VOLT SHUNT TRIP COIL. FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
7. USE ELEVATOR ROOM RECEPTACLE POWER FOR CONTROL OF SHUNT TRIP BREAKER. HEAT DETECTORS SHALL BE WIRED IN SERIES WITH SHUNT TRIP COIL (2#12, #12 BOND, ¾"C)

TYPICAL ELEVATOR ROOM & PIT



SECOND FLOOR PLAN-POWER

1/4"=1'-0"

CONTRACTOR SHALL REROUTE EXISTING CITY HALL UTILITIES SO THAT THE EXISITNG CITY HALL STAYS IN OPERATION DURING THE CONSTRUCTION OF THE NEW CITY HALL. THIS INCLUDES SEWER, POWER, TELEPHONE, WATER, CABLE TV, AND GAS.

ISSUED FOR CONSTRUCTION. DATE: 04-30-2009

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
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CONSULTANTS

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SEAL

GEORGIA REGISTERED No. 15330 PROFESSIONAL ENGINEER

CITY OF OXFORD GEORGIA
New City Hall

SHEET TITLE: SECOND FLOOR PLAN POWER

PRINTED:

NUMBER: E-2

LIGHT FIXTURES SCHEDULE

light fixtures shall be air lock type to comply with energy code Section: 502.4.7
EACH SPACE HAVE shall have 50% LIGHT REDUCTION CONTROL SECTION 505-2.2.1

A. LITHONIA #2AVG-G-232-SBL-MVOLT-GEB10RS, RECESSED, 2' X 4', INDIRECT, 2-F32T8 LAMPS, ELECTRONIC BALLAST. (59 WATTS MAX. INPUT)

A-1. SAME AS 'A' EXCEPT ACRYLIC LENS,

B LITHONIA #2AVG-G-332-SBL-MVOLT-GEB10RS, RECESSED, 2' X 4', INDIRECT, 2-F32T8 LAMPS, TWO ELECTRONIC BALLAST. (89 WATTS MAX. INPUT)

C LITHONIA #2AV-G-317-SBL-MVOLT-GEB10RS, RECESSED, 2' X 2', 3-17 LAMPS, TWO ELECTRONIC BALLASTS. (61 WATTS MAX. INPUT)

C1 LITHONIA #2AV-G-217-SBL-MVOLT-GEB10RS, RECESSED, 2' X 2', 3-17 LAMPS, TWO ELECTRONIC BALLASTS. (41 WATTS MAX. INPUT)

D LITHONIA #2AV-G-3-24TSHO-SBL-MVOLT-GEB10RS, RECESSED, 2' X 2', 3-24TSSHO LAMPS, TWO ELECTRONIC BALLASTS. (71 WATTS MAX. INPUT)

E. LITHONIA #C-2967B-120-GEB10RS-NOM, SURFACE MOUNTED STRIP,2-F96T8,2-59W LAMPS. 135 WATTS INPUT, ELECTRONIC ENERGY SAVING BALLAST,

EM3. EMERGI - LITE # ECM18-2-PPD, WALL MTD, 2-9W LAMPS, PULSE PLUS DIAGNOSTICS, 6V.

EM5. EMERGI - LITE # LED-W-SRX-14R/2EF9, COMBINATION EXIT & EMERGENCY BATTERY LIGHTS.

F LITHONIA WSR-2/42TRT-WT-120-DSST, HALFROUND, COMPACT FLOURESCENT, WIDE THROW, WALL MOUNTED , WET LOCATION, HPF BALLAST. (90 WATTS MAX. INPUT)

G. MIDWEST #WB232RSS, WALL MTD, ACRYLIC LENS, 2-F32T8 LAMPS, ELECTRONIC BALLAST. (71 WATTS MAX. INPUT)

H. LIGHTOLIER #1102D1/1105WH, RECESSED DOWNLIGHT, ANDBRITE ALUM REFLECTOR, MATTE WHITE STEP BAFFLE, 2-13W QUAD PL LAMP, HPF

K LEVITON #29816-C, PORCELAIN LAMPHOLDERS WITH PULL CHAIN AND 2 TERMINAL SCREWS.

L. CHANDLIER -SELECTED BY ARCHITECT. ALLOWANCE PER FIXTURE=$500.00

M. SELECTED BY ARCHITECT. ALLOWANCE PER FIXTURE=$500.00

N. LITHONIA 'KPS-175M-R5-120-WL-CR-DWH-SCWA' SURFACE MOUNTED, WET LOCATION, CORROSION RESISTANCE, WHITE COLOR, SUPER CWA PULSE START BALLAST, 175 WATTS METAL HALIDE. (MAX. INPUT=210 WATTS)

P. GARDCO 'DF12-SP-VFL-,400HPS-208-BRP-PCB-CH-ESB' MONUMENT SIGN LIGHT. CONTRACTOR SHALL SUBMIT PHOTOMETRIC FOR APPROVAL. 208/1/60

X6. EMERGILITE #ECLXN-1-R, CEILING OR WALL MTD LED EXIT LIGHT W/BATTERY BACKUP, 1-FACE,WHITE

NOTE: PROVIDE "RATE OF RISE / FIXED HEAT" HEAT DETECTORS AT 100 SQ. FT. INTERVALS IN THE ATTIC.

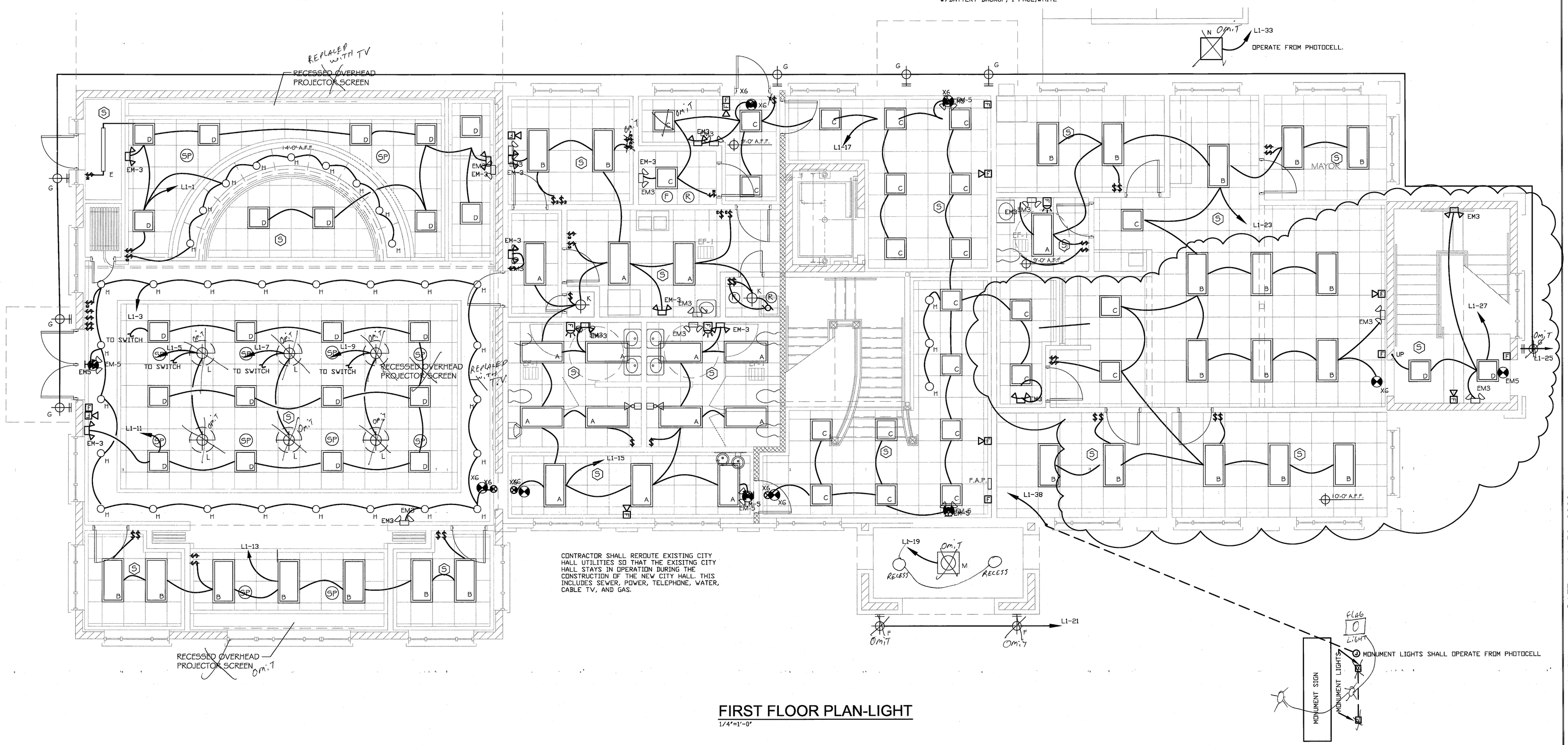
NOTE: SMOKE DETECTORS AND ALARM SYSTEM

SMOKE DETECTORS SHALL BE LOCATED IN ALL COMMON SPACES, SLEEPING ROOMS, AND CORRIDORS. DETECTORS IN CORRIDORS SHALL BE 15' FROM END OF CORRIDOR AND SPACED 30' THEREAFTER. SMOKE DETECTORS IN SLEEPING ROOMS SHALL BE POWERED BY ELECTRICAL SYSTEM AND HAVE A 1 ½" HR. EMERGENCY POWER SOURCE. FIRE ALARM SHOP DRAWINGS, CANDELA RATINGS, AND DEVICE CUT SHEETS SHALL BE SUBMITTED TO THE ARCHITECTS OFFICE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

NOTE:

ALL LIGHTS EXCEPT CORRIDOR, REST ROOM,STAIRS, PUBLIC LOBBY, MEANS OF EGRESS AREAS SHALL BE CONTROLLED BY LOCAL SWITCHES AND TIME CLOCK OR MOTION DETECTOR TYPE SWITCHES. PROVIDE OVERIDE SWITCH AT THE MAIN ENTRANCES. SEE ENRGY CODE SECTION 505.2.2.2 (INTERNATIONAL ENERGY CONVSERVATION CODE.

PROVIDE DUAL SWITCHING TO REDUCE LIGHTS 50%XX% IN THE SPACE EXCEPT REST ROOM, CORRIDORS, STOREROOMS, AND PUBLIC LOBIES. SEE ENERGY CODE SECTION 505.2.2.1. THIS DOES NOT APPLY IF MOPTION DETECTOR IS INSTALLED



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FIRST FLOOR PLAN-LIGHT

1/4"=1'-0"

ISSUED FOR CONSTRUCTION. DATE: 04-30-2009

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

CONSULTANTS

Date Plotted : Sep 16, 2009 - 4:39pm
File: 2008-067E3.DWG

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SEAL

GEORGIA REGISTERED No. 15330 PROFESSIONAL ENGINEER

CITY OF OXFORD GEORGIA
New City Hall

SHEET TITLE: FIRST FLOOR PLAN LIGHT

PRINTED:

NUMBER: E-3

NOTE: FIRE PROTECTION

1. PROVIDE FIRE ALARM WITH VOICE ANNUNCIATOR. PROVIDE STROBE IN ALL BATHROOMS AND ALL OCCUPIED SPACES WITH MORE THAN FOUR (4) PEOPLE. PROVIDE HORN AND STROBE IN ALL SLEEPING ROOMS.

2. ALL AREAS (INCLUDING ALL ATTIC SPACES, PLENUM, EXTERIOR SOFFITS, DROPPED SOFFITS, ETC.) TO BE PROTECTED WITH AUTOMATIC EXTINGUISHER SYSTEM IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER LINES AND SYSTEMS IN UNCONDITIONED SPACES TO BE DRY SPRINKLER SYSTEMS. PROVIDE PIPE INSULATION AND COVER WITH ATTIC INSULATION.

3. PROVIDE MANUAL FIRE ALARM PULL STATIONS WITH 5'-0" OF ALL EXITS.

4. FIRE ALARM SHALL HAVE VOICE COMMUNICATION AND FIRE DEPARTMENT CONNECTION.

NOTE: SPRINKLER

1. CONTRACTOR TO SUBMIT ENGINEER DESIGNED AUTOMATIC FIRE SPRINKLER SHOP DRAWINGS TO ARCHITECT AND FIRE MARSHAL FOR APPROVAL. PROVIDE HYDRAULIC CALCULATIONS, DEVICE CUT SHEETS, PUMP SPECIFICATIONS, ETC.

2. CONTRACTOR TO VERIFY AS BUILT CONDITIONS AND MODIFY SYSTEM DURING SHOP DRAWING OR IN-FIELD AS REQUIRED TO MEET FIRE MARSHAL APPROVAL AND INSPECTION.

NOTE: OVERHEAD PROJECTORS TO BE DA-LITE 69" X 92" (4:3 RATIO) SCREEN, VIDEO SPECTRA 1.5 VIEWING SURFACE, WIRELESS REMOTE CONTROL, WIRED WALL CONTROL. COORDINATE MOUTING CLEARANCES AND ELECTRICAL REQUIREMENTS. EXTERIOR FINISH TO BE WHITE (OR MATCH SOFFIT).

NOTE: PROVIDE 'RATE OF RISE / FIXED HEAT' HEAT DETECTORS AT 100 SQ. FT. INTERVALS IN THE ATTIC.

NOTE: SMOKE DETECTORS AND ALARM SYSTEM

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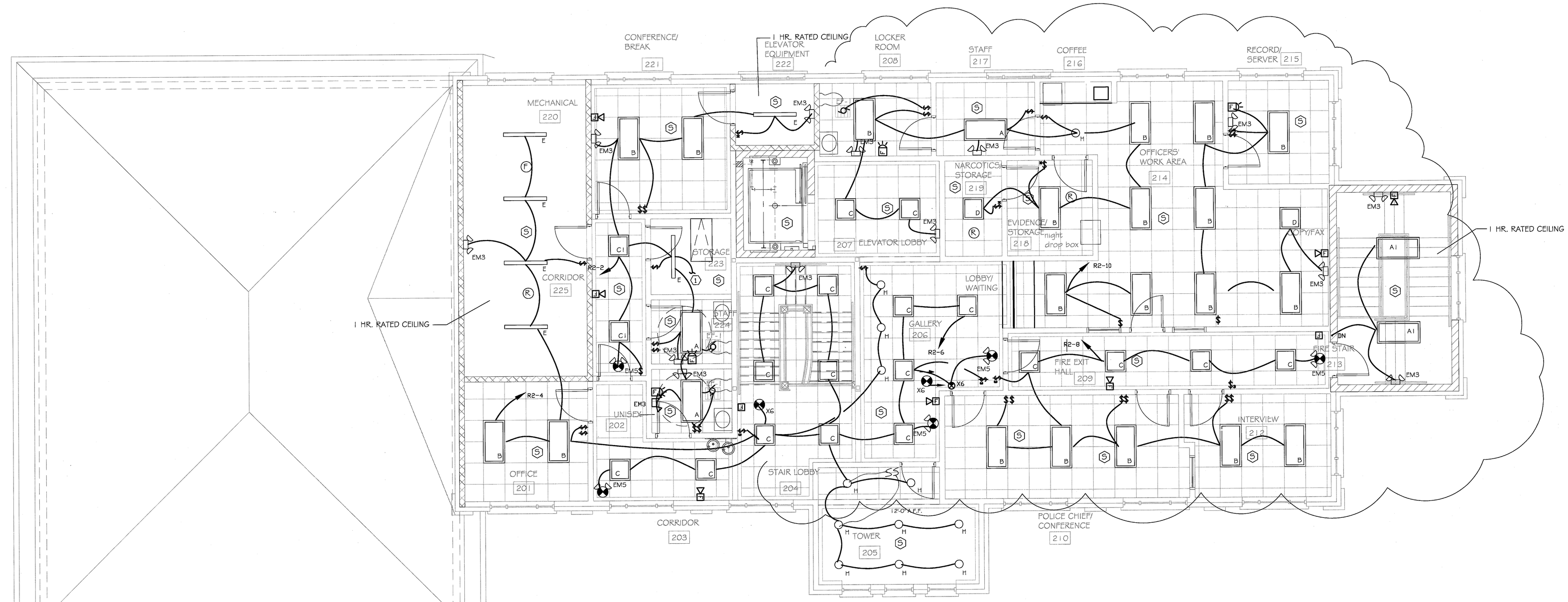

SECOND FLOOR PLAN-LIGHT

1/4"=1'-0"

LEGEND

- A — 2 X 4 FLUORESCENT FIXTURE IN GRID BY LITHONIA WITH A-19 ACRYLIC LENS
- B — 2 X 4 FLUORESCENT SURFACE MOUNTED FIXTURE BY LITHONIA WITH A-19 ACRYLIC LENS
- C — 2 X 2 GRID MOUNTED FIXTURE
- D — 2 X 2 SURFACE MOUNTED FIXTURE
- E — 4 FT. LONG STRIP FLUORESCENT
- F — RECESSED CAN LIGHT WITH FRESNEL LENS
- G — WALL MOUNTED EXTERIOR GRADE FIXTURE
- H — RECESSED COMPACT FLUORESCENT LIGHT WITH BAFFLE
- I — SURFACE MOUNTED METAL HALIDE FIXTURE
- J — EXIT SIGN
- K — CEILING MOUNTED GLASS GLOBE CLOSET LIGHT WITH COMPACT FLUORESCENT
- F — STROBE
- F — PULL STATION
- F — HORN AND STROBE
- S — SMOKE DETECTOR
- F — FIXTURE TEMPERATURE HEAT DETECTOR
- R — RATE OF RISE / FIXED TEMP. HEAT DETECTOR
- EF-1 — EXHAUST FAN
- F.A.P. — FIRE ALARM PANEL
- COMMERCIAL PULLDOWN LADDER - PROVIDE 1-HOUR RATED FIRE RATING ON PULL DOWN LADDER WITH CLOSING DEVICE AND LATCH.
- L — VISA LIGHTING #CP-3880 STEM MOUNTED DISH FIXTURE - BRUSHED CHROME FINISH.
- EMERGENCY LIGHTS WITH BATTERY BACK-UP
- EXIT SIGN WITH LIGHTS WITH BATTERY BACK-UP
- DIFFUSER
- DIFFUSER
- RETURN AIR GRILLE

NOT ISSUED FOR CONSTRUCTION. DATE: 04-30-2009

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	STAIR RELOCATION			

CONSULTANTS

Date Plotted : Sep 16, 2009 - 2:43pm
File: 2008-067E4.DWG

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SEAL

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CITY OF OXFORD GEORGIA
New City Hall

SHEET TITLE: SECOND FLOOR PLANTED CEILING PLAN LIGHT

PRINTED:

NUMBER: A-E-4.2

PANEL: L1 | MAIN DEVICE: M.L.O. | LOCATION: ELECTRICAL ROOM
VOLTAGE: 208/3/60, 4W | TYPE: NQOD | RATING: 225 AMPS | MOUNTING: SURFACE
62,000 AIC

CKT. NO.	ITEM	KVA	C.B.	PHASE LOADS PH. A	PH. B	PH. C	C.B.	KVA	ITEM	CKT. NO.
1	LIGHTS-STAGE	1.5	20/1	1.9			20/1	0.4	RECEPT - STAAGE	2
3	DOWN LIGHTS-COURT-124	1.6			2.0			0.4	RECEPT - STAGE	4
5	CHANDLIER-COURT-124	1.6				2.0		0.4	RECEPT - COM. RM	6
7	CHANDLIER-COURT-124	1.6		2.0				0.4	RECEPT - COM. RM	8
9	CHANDLIER-COURT-124	1.6			2.0			0.4	RECEPT - PROP. CHAIR	10
11	2X2 LIGHTS-COURT-124	1.1				2.7		1.6	RECEPT - MEN 121	12
13	LIGHTS-ATTORNEY-125/126/124	0.7		2.3				1.6	RECEPT - MEN 121	14
15	LIGHTS-116/117/119/120/121/122	1.8			3.4			1.6	RECEPT - WOMEN 122	16
17	LIGHTS-113/102/103/101	1.6				3.2		1.6	RECEPT - WOMEN 122	18
19	LIGHTS-CANOPY	1.6		2.4				0.8	RECEPT - CORR 123	20
21	LIGHTS -EXTRIOR CANOPY POLE	0.9			1.1			0.2	RECEPT - GALLERY 102	22
23	LIGHTS-109/112/110/105/106/107	1.6				2.0		0.4	RECEPT - COFFEE 110	24
25	LIGHTS EXTERIOR	0.5		0.9				0.4	RECEPT - SERVICE	26
27	LIGHTS-STAIR	0.6			1.4			0.8	RECEPT - STAIR 108	28
29	FAUCETS-MEN'S 121	1.2				2.2	20/2	1.0	ELECTRIC HEATER - STAIR 108	30
31	FAUCETS-WOMEN'S 122	1.2		2.2				1.0		32
33	LIGHT-REMOTE TELLER	0.2			1.8		20/1	1.6	RECEPT - STAFF 111	34
35	SAFE	1.2				1.6	20/1	0.4	RECEPT - STAGE 112	36
37	FIRE ALARM PANEL	1.2		1.7			20/2	0.5	MONUMENT SIGN	38
39	HAND DRYER(STAFF 111)	1.5			2.0			0.5		40
41	HAND DRYER-(MEN-121)	1.5				3.0	20/1	1.5	HAND DRYER(WOMEN'S 122)	42
			TOTAL	13.4	13.7	16.7	43.80			

REMARKS : ✖ HACR BREAKER
✖✖ ARC FAULT BREAKER
✖✖✖ SHUNT BREAKER
✖✖✖✖ GFI BREAKER

PANEL: R1 | MAIN DEVICE: M.L.O. | LOCATION: ELECTRICAL ROOM
VOLTAGE: 208/3/60, 4W | TYPE: NQOD | RATING: 225 AMPS | MOUNTING: SURFACE
62,000 AIC

CKT. NO.	ITEM	KVA	C.B.	PHASE LOADS PH. A	PH. B	PH. C	C.B.	KVA	ITEM	CKT. NO.
1	RECP-SPRINKLER RM	0.8	20/1	2.4			20/1	1.6	RECP-CONFERENCE-116	2
3	SPRINKLER-COMPRESSOR ✖✖	1.6	20/3		2.4			0.8	RECP-HALLWAY-114	4
5		1.6				3.2		1.6	RECP-ELECT-115	6
7		1.6		3.2				1.6	RECP-CATERING-119	8
9	ELECTRIC HEATER	1.0	20/2		2.6			1.6	RECP-CATERING-119	10
11		1.0				2.6		1.6	RECP-CATERING-119	12
13	RECP-CONFERENCE ROOM	1.6	20/1	3.2			20/2	1.6	ICE-MACHINE	14
15	RECP-SPRINKLER RM	0.4	20/1		2.0			1.6		16
17	PROJECTION SCREEN ✖✖✖	1.6				2.4	20/1	0.8	REFRIGERATOR-119	18
19	RECP-STAGE	1.6		2.8				1.2	RECP-SOUND-118	20
21	RECP-STAGE	1.2			1.8			0.6	DRINKING FOUNTAIN-123	22
23	RECP-STAGE	1.2				1.6		0.4	RECP-STORAGE-112	24
25	RECP-STAGE	1.2		2.8				1.6	SERVER-STORAGE-112	26
27	RECP-COMMUNITY RM	0.8			2.4			1.6	COPY M/C-STORAGE-112	28
29	RECP-ATTORNEY-125	1.2				2.8		1.6	RECP-ADMIN-105	30
31	RECP-COUNCIL-121	1.2		2.4				1.2	RECP-MAYOR-109	32
33	RECP-ATTORNEY-126	1.2			2.8			1.6	RECP-COFFEE-110	34
35	PROJECTION SCREEN-✖✖✖	1.6				2.8		1.2	RECP-ADMIN-105	36
37	PROJECTION SCREEN-✖✖✖	1.6		2.4				0.8	RECP-LOBBY-103	38
39	RECEPTACLE-OUTSIDE	0.4			1.6			1.2	RECP-CONFERENCE-104	40
41	RECEP-CITY MANAGER-107	1.2				2.4		1.2	RECP-CONFERENCE-104	42
			TOTAL	19.2	15.6	17.8	52.60			

REMARKS : ✖ HACR BREAKER
✖✖ COORDINATE WITH FIRE SPRINKLER CONTRACTOR. THIS MAY BE DIFFERENT.
✖✖✖ VERIFY WITH EQUIPDMENT
✖✖✖✖ GFI BREAKER

PANEL: P1 | MAIN DEVICE: M.L.O. | LOCATION: ELECTRICAL ROOM
VOLTAGE: 208/3/60, 4W | TYPE: NQOD | RATING: 400 AMPS | MOUNTING: SURFACE
62,000 AIC

CKT. NO.	ITEM	KVA	C.B.	PHASE LOADS PH. A	PH. B	PH. C	C.B.	KVA	ITEM	CKT. NO.
1	HP1-1 ✖	1.9	30/3	4.3			40/3	2.4	HP2-1 ✖	2
3		1.9			4.3			2.4		4
5		1.9				4.3		2.4		6
7	HP1-2 ✖	2.4	40/3	4.8			40/3	2.4	HP2-2 ✖	8
9		2.4			4.8			2.4		10
11		2.4				4.8		2.4		12
13	HP1-3 ✖	1.4	20/2	2.6			20/1	1.2	CU1-5	14
15		1.4			2.6		20/1	1.2	CU1-3	16
17	INSTANT WATER HTR	2.3	30/1			3.5	20/2	1.2	HP2-4	18
19	HP1-4A ✖	2.4	40/3	3.6				1.2		20
21		2.4			4.4		20/3	2.0	WATER HEATER	22
23		2.4				4.4		2.0		24
25	HP1-4B ✖	2.4	40/3	4.4				2.0		26
27		2.4			2.7		20/1	0.3	SUMP PUMP	28
29		2.4				3.6	20/2	1.2	AU1-6	30
31	HP1-4C ✖	2.4	40/3	3.6				1.2		32
33		2.4			3.6		20/2	1.2	HP1-6	34
35		2.4				3.6		1.2		36
37	HP1-4D ✖	2.4	40/3	3.8			20/2	1.4	HP2-5	38
39		2.4			3.8			1.4		40
41		2.4				4.7	30/1	2.3	INSTANT WATER HEATER	42
			TOTAL	27.1	26.2	28.9	82.20			

REMARKS : ✖ HACR BREAKER
✖✖ ARC FAULT BREAKER
✖✖✖ SHUNT BREAKER
✖✖✖✖ GFI BREAKER

COPPER WIRING SCHEDULE

BREAKER SIZE	WIRING SIZE	DISCONNECT SIZE
20/1	2#12,1#12G, 1/2"C	30/2/NF
20/2	3#12,1#12G, 1/2"C	30/2/NF
20/3	3#12,1#12G, 1/2"C	30/3/NF
30/2	3#10,1#10G, 1/2"C	30/2/NF
25/3	3#10,1#10G, 1/2"C	30/3/NF
30/3	3#10,1#10G, 1/2"C	30/3/NF
40/3	3#8,1#10G, 3/4"C	60/3/NF

✖ MAXIMUM LEGNTH=100 FT.
✖✖ OUTDOOR DISCONNECT SHALL BE WEATHERPROOF
PROVIDE NEUTRAL WIRE FOR DRYER, RANGE, AND OVEN.

PANEL: R2 | MAIN DEVICE: M.L.O. | LOCATION: MECHANICAL ROOM
VOLTAGE: 208/3/60, 4W | TYPE: NQOD | RATING: 225 AMPS | MOUNTING: SURFACE
62,000 AIC

CKT. NO.	ITEM	KVA	C.B.	PHASE LOADS PH. A	PH. B	PH. C	C.B.	KVA	ITEM	CKT. NO.
1	RECP-MECH-220	1.2	20/1	2.6			20/1	1.4	LIGHTS-221/222/223/224/226	2
3	RECP-CORR-226	1.2			1.9			0.7	LIGHTS-201/220/206	4
5	RECP-OFFICE 201	1.2				2.8		1.6	LIGHTS-208/207/205/204	6
7	RECP-OFFICE-222	1.2		2.0				0.8	LIGHTS-210/211/209/212	8
9	RECP-DRINKING FOUNTAIN	0.8			2.2			1.4	LIGHTS-214/215/216/217/218	10
11	RECP-OFFCIE-208	1.2				2.4		1.2	RECP-GALLARY-206	12
13	RECP-218/209/219	1.6		3.2				1.6	RECP-STAFF-217	14
15	RECP-TOWER-205	1.2			2.0			0.8	FAUCET	16
17	REFRIGERATOR	0.8				1.2		0.4	FAUCET	18
19	RECP-COFFEE-216	1.6		3.1				1.5	HAND DRYER(STAFF -225)	20
21	RECP-OFFICER'S-214	1.6			3.1			1.5	HAND DRYER(UNISEX-202)	22
23	RECP-POLICE CH/CONF.-210	1.2				2.7		1.5	HAND DRYER(STAFF-217)	24
25	RECP-POLICE CH/CONF.-210	1.6		3.9			20/1	2.3	INSTANT WATER HEATER	26
27	RECP-POLICE CH/CONF.-210	1.2			3.5		20/1	2.3	INSTANT WATER HEATER	28
29	RECP-INTERVIEW-212	1.2				1.2	1P	0	SPACE	30
31	RECP-RECORDS/SERV 215	1.2		1.2				0		32
33	RECP-ELEVATOR RM	0.8			0.8			0		34
35	RECP-ELEVATOR	0.8				0.8		0		36
37	RECP-STORAGE-224	0.8		0.8				0		38
39	RECP-STAFF-225	1.6			1.6			0		40
41	RECP-UNISEX-202	1.6				1.6		0		42
			TOTAL	16.8	15.1	12.7	44.60			

REMARKS : ✖ HACR BREAKER
✖✖ ARC FAULT BREAKER
✖✖✖ SHUNT BREAKER
✖✖✖✖ GFI BREAKER

PANEL: P2 | MAIN DEVICE: M.L.O. | LOCATION: MECHANICAL ROOM
VOLTAGE: 208/3/60, 4W | TYPE: NQOD | RATING: 400 AMPS | MOUNTING: SURFACE
62,000 AIC

CKT. NO.	ITEM	KVA	C.B.	PHASE LOADS PH. A	PH. B	PH. C	C.B.	KVA	ITEM	CKT. NO.
1	AU 2-1	3.6	40/3	6.1			25/3	2.5	AU 1-1	2
3		3.6			6.1			2.5		4
5		3.6				6.1		2.5		6
7	AU 2-2	3.6	40/3	7.2			40/3	3.6	AU 1-2	8
9		3.6			7.2			3.6		10
11		3.6				7.2		3.6		12
13	AU 2-5	1.2	20/1	3.1			30/2	1.9	AU 1-3	14
15	AU 2-3	1.2	20/1		3.1			1.9		16
17	AU 2-4	1.2	20/2			1.2		0	SPARE	18
19		1.2		4.8			40/3	3.6	AU 1-4A	20
21	AU-2-5	1.9	30/2		5.5			3.6		22
23		1.9				5.5		3.6		24
25	SPACE	0	1P	3.6			40/3	3.6	AU 1-4B	26
27		0			3.6			3.6		28
29		0				3.6		3.6		30
31		0		3.6			40/3	3.6	AU 1-4C	32
33		0			3.6			3.6		34
35		0				3.6		3.6		36
37		0		3.6			40/3	3.6	AU 1-4D	38
39		0			3.6			3.6		40
41		0				3.6		3.6		42
			TOTAL	32.0	32.7	30.8	95.50			

REMARKS : ✖ HACR BREAKER
✖✖ ARC FAULT BREAKER
✖✖✖ SHUNT BREAKER
✖✖✖✖ GFI BREAKER

PANEL: R | MAIN DEVICE: M.L.O. | LOCATION: MECHANICAL ROOM
VOLTAGE: 208/3/60, 4W | TYPE: NQOD | RATING: 225 AMPS | MOUNTING: SURFACE
62,000 AIC

CKT. NO.	ITEM	KVA	C.B.	PHASE LOADS PH. A	PH. B	PH. C	C.B.	KVA	ITEM	CKT. NO.
1	RECEPTACLE	1.6	20/1	3.6			30/3	2.0	IRRIGATION PUMP-5HP	2
3	RECEPTACLE	1.6	20/1		3.6			2.0		4
5	RECEPTACLE	1.6	20/1			3.6		2.0		6
7	RECEPTACLE	1.6	20/1	1.6			1P-	0	SPACE	8
9	30 AMPS RECEPTACLE ✖✖✖✖	2.2	30/1		2.2			0		10
11	SPACE	0	1P			0.0		0		12
13		0		0.0				0		14
15		0			0.0			0		16
17		0				0.0		0		18
19		0		0.0				0		20
21		0			0.0			0		22
23		0				0.0		0		24
25		0		0.0				0		26
27		0			0.0			0		28
29		0				0.0		0		30
31		0		0.0				0		32
33		0			0.0			0		34
35		0				0.0		0		36
37		0		0.0				0		38
39		0			0.0			0		40
41		0				0.0		0		42
			TOTAL	5.2	5.8	3.6	14.60			

REMARKS : ✖ HACR BREAKER
✖✖ ARC FAULT BREAKER
✖✖✖ SHUNT BREAKER
✖✖✖✖ GFI BREAKER

WIRING

$	SINGLE POLE SWITCH, 3'6" AFF
$3	SUBSCRIPT INDICATES NUMBER OF POLES FOR SWITCH 3 FOR 3 WAY, 4 FOR 4 WAY, M FOR MOTOR CONTROLLER
	CONDUIT IN WALL OR ABOVE CEILING
	CONDUIT IN FLOOR SLAB OR UNDER GROUND
	EXPOSED CONDUIT
	HOME RUN, 2#12 AND 1#12 GROUND COPPER THHN 1/2"C OR AS NOTED.
J	JUNCTION BOX, CEILING

RECEPTACLES/WIRING DEVICES

	DUPLEX OUTLET, 20A, 125V, HUBBELL #CBR20✖ OR EQUAL (MOUNT 18" A.F.F.)
	DUPLEX OUTLETMOUNTED ABOVE COUNTER (COORDINATE W/CABINET WORK)
	DUPLEX OUTLET IN FLOOR PLUS CARPET RING FOR CARPET
	DUPLEX OUTLET W/G.F.I., HUBBELL #GF5352✖A OR EQUAL (MOUNT 18" AFF)
	DUPLEX OUTLET W/G.F.I. MOUNTED ABOVE COUNTER

LEGEND

ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT
MOUNTING HEIGHT FROM THE CENTER OF ITEM

FIRE ALARM SYSTEM

F	MANUAL PULL STATION, 4'-0" AFF
DF	COMBINATION ALARM HORN/STROBE, 6'-8" AFF
F	STROBE ALARM, 6'-8" AFF
S	? SMOKE DETECTOR
FACP	FIRE ALARM CONTROL PANEL, TOP AT 6'-6" AFF

LIGHTING

INCANDESCENT H.I.D. OR COMPACT FLUORESCENT

	SURFACE MOUNTED FIXTURE
	CHANDELIER
	WALL/BRACKET MOUNTED FIXTURE
	RECESSED FIXTURE

FLUORESCENT

	RECESSED FIXTURE
	SURFACE, WALL OR PENDANT MOUNTED FIXTURE

EMERGENCY/EXIT

(SHADED QUADRANT INDICATES DIRECTION OF FACE FOR EXIT LIGHTS)

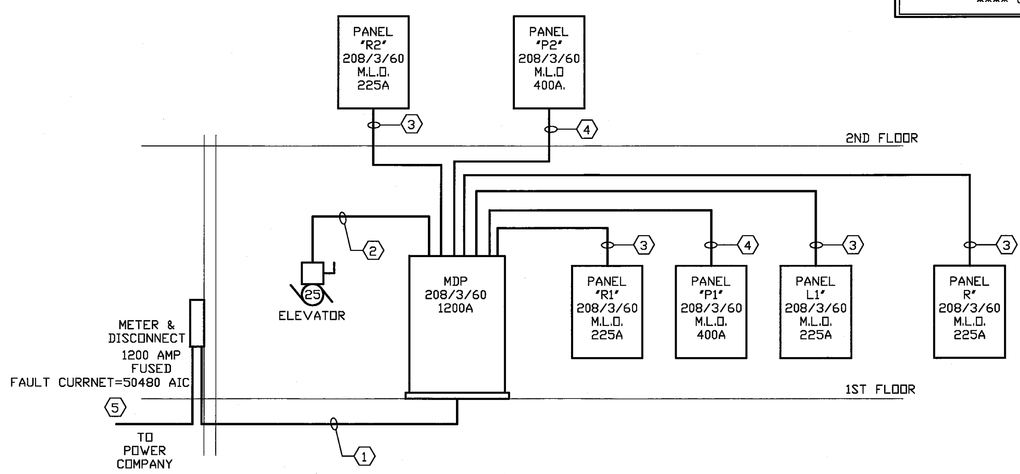
	SINGLE FACE EXIT LIGHT (CEILING OR PENDANT MOUNTED)
	SINGLE FACE EXIT LIGHT (WALL MOUNTED)
	DOUBLE FACE EXIT LIGHT (CEILING OR PENDANT MOUNTED)
	COMBINATION LED EXIT LIGHT & BATTERY LIGHT
	ARROWS TO INDICATE DIRECTION OF EXIT TRAVEL
	BATTERY OPERATED EMERGENCY LIGHT W/TWO HEADS (WALL MOUNTED)

POWER/MOTORS

	MOTOR
30/3/20	DISCONNECT SWITCH, AMPS/POLES/FUSE
	PANELBOARD

SIGNAL COMMUNICATIONS

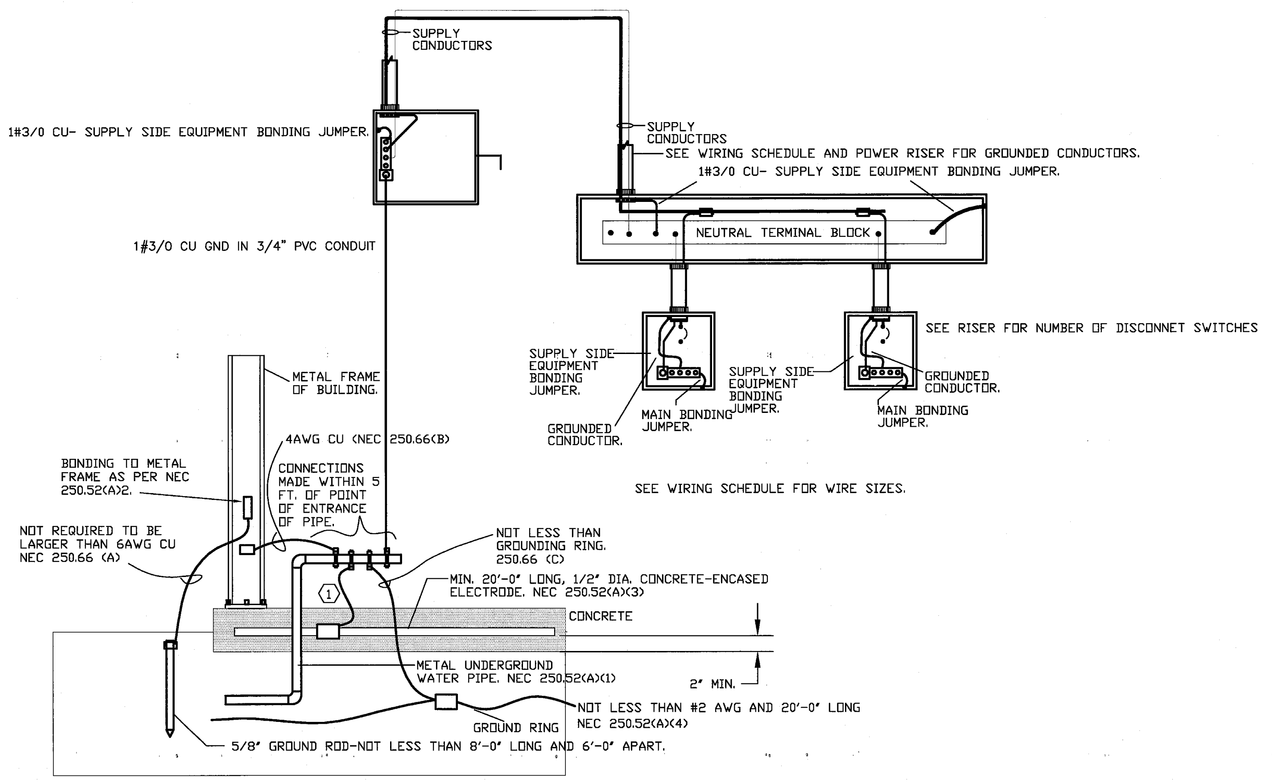
	TELEPHONE/DATA OUTLET 18" AFF, SEE ELECTRICAL GENERAL NOTES
	TELEPHONE OUTLET 18" AFF, SEE ELECTRICAL GENERAL NOTES
SP	SPEAKER IN CEILING



1. 4 SETS OF 4#400 KCMIL, 1#3/0G, 3 1/2"c
2. SEE MDP SCHEDULE
3. SEE MDP SCHEDULE
4. SEE MDP SCHEDULE
5. 4 SETS OF 4#400 KCMIL, 3 1/2"c

POWER RISER

NOT TO SCALE



SEE WIRING SCHEDULE FOR WIRE SIZES.

GROUNDING ELECTRODE SYSTEM
NTS

1. NOT ROQUIRED TO BE LARGER THAN 4AWG CU. NEC250.66

MDP-1200 AMP

PANEL	KVA	BRKR SIZE	WIRE SIZE	REMARKS
L1	43.80	200/3	4#3/0, 1#4G, 2"C	
R1	50.20	200/3	4#3/0, 1#4G, 2"C	
P1	82.20	400/3	4#500 KCMIL, 1#3G, 3 1/2"C	
R2	45.0	200/3	4#3/0, 1#4G, 2"C	
P2	95.50	400/3	4#500 KCMIL, 1#3G, 3 1/2"C	
ELEVATOR	20.00	150/3	4#1/0, 1#6G, 2"C	SHUNT BREAKER-25HP
R	14.60	200/3	4#3/0, 1#4G, 2"C	
SPARE	0	200/3		
SPACE	0			
SPACE	0			
TOTAL	351.3		976 Connected amps	

CONTRACTOR SHALL VERIFY ELEVATOR BREAKER SIZE WITH ELEVATOR SUPPLIER.

ISSUED FOR CONSTRUCTION. DATE: 04-30-2009

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

CONSULTANTS
Date Plotted : Apr 30, 2009 - 11:05am
File: 2008-067E3.DWG
ATLANTA MANAGEMENT AND ENGINEERING CONSULTANTS, INC.
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SEAL
GEORGIA REGISTERED No. 15330 PROFESSIONAL ENGINEER

CITY OF OXFORD GEORGIA
New City Hall

SHEET TITLE: POWER RISER & ELECTRICAL PANEL SCHEDULES.
PRINTED:
NUMBER: E-5

ELECTRICAL NOTES

1. CONTRACTOR SHALL NOT RUN ANY WIRES WITHOUT VERIFYING WITH ELECTRICAL CHARACTERISTICS OF EQUIPMENT. DESIGN DOCUMENTS MAY DIFFER FROM ACTUAL ELECTRICAL CHARACTERISTICS OF EQUIPMENT. ENGINEER DOES NOT HAVE ACTUAL EQUIPMENT DATA DURING DESIGN PROCESS. CONTRACTOR SHALL BRING TO ATTENTION OF ENGINEER FOR ANY DISCREPANCIES. CONTRACTOR MUST SUBMIT EQUIPMENT DATA WHICH REQUIRED ELECTRICAL POWER TO ENGINEER. APPROVED EQUIPMENT BY ENGINEER OR ARCHITECT DOES NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY OF VERIFICATION OF ELECTRICAL CHARACTERISTICS OF EQUIPMENT AND MODIFY CIRCUITS AS NECESSARY.

2. CONTRACTOR SHALL VERIFY UTILITY COMPANY'S POWER SUPPLY (VOLTAGES AND PHASE) BEFORE PURCHASING ANY EQUIPMENT, LIGHT FIXTURES AND NOTIFY ENGINEER FOR ANY DISCREPANCIES. CONTRACTOR SHALL SUBMIT ALL EQUIPMENT DATA AND LIGHT FIXTURES FOR APPROVAL.

3. ANY EQUIPMENT REQUIRES DUAL VOLTAGES (e.g. 240/120V FOR OVEN AND DRYER OR 277/120 VOLTS WITH CONTROL WIRES), CONTRACTOR SHALL RUN NEUTRAL WIRE

4. PROVIDE GROUND FAULT OUTLET WITHIN 25 FEET OF ALL AIR CONDITIONING EQUIPMENT (REGULAR) AS PER NEC CODE 210-8(B) & 210-63. CONNECT TO NEAREST RECEPTACLE CIRCUIT UNLESS OTHERWISE INDICATED.

5. PROVIDE ELECTRICAL CONNECTIONS TO ALL ITEMS SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRES ELECTRICITY.

6. COORDINATE ALL CONNECTIONS WITH EQUIPMENT SUPPLIER FOR EXACT LOCATION AND REQUIREMENTS.

7. PROVIDE CONNECTION TO ALL APPLIANCES, MECHANICAL AND PLUMBING EQUIPMENT INCLUDING TOILET EXHAUST FANS AND UNDER CABINET LIGHTS, SIGNS, ETC.,. CONTRACTOR MUST VERIFY WITH ARCHITECTURAL, INTERIOR, CIVIL, MECHANICAL, AND PLUMBING CONTRACTORS THE QUANTITY OF EQUIPMENT CONNECTIONS BEFORE BIDDING AND FINAL CONTRACT. NEGLIGENCE OF VERIFYING QUANTITY WILL NOT BE COMPENSATED.

8. PROVIDE MINIMUM OF 1/0 COPPER GROUND CONDUCTOR FROM TELEPHONE BACKBOARD TO BUILDING GROUNDING SYSTEM. CONTRACTOR SHALL PROVIDE 8'-0" X 4'-0" X 3/4" THICK FIRE RETARDANT PLYWOOD TELEPHONE BACKBOARD AND 120 VOLT CONVENIENCE DUPLEX OUTLET NEXT TO TELEPHONE BACKBOARD. CONTRACTOR SHALL RUN TWO 4" PVC CONDUIT FROM TELEPHONE BOARD TO THE PUBLIC RIGHT OF WAY OR A POLE. CONTRACTOR SHALL COORDINATE WITH TELEPHONE COMPANY FOR THE THEIR REQUIREMENTS BEFORE FINAL CONTRACT. CONTRACTOR SHALL INFORM ARCHITECT FOR ANY DISCREPANCIES.

9. COORDINATE ALL ELECTRICAL AND COMMUNICATION OUTLETS WITH MILLWORK. IF ACCESS GROMMETS ARE NOT PROVIDED IN COUNTER TOP, INSTALL OUTLETS ABOVE COUNTER.

10. EXPOSED WIRING SHALL BE IN EMT OR RIGID CONDUIT.

11. SEE MECHANICAL DRAWINGS FOR LOCATION OF HEATING AND A/C EQUIPMENT.

12. THIS BUILDING SHALL BE EQUIPPED WITH A FIRE SUPPRESSION SPRINKLER SYSTEM, DESIGNED AND INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA #13 AND ALL LOCAL CODES AND ORDINANCES. COORDINATE THE INSTALLATION OF INDICATED EMERGENCY ALARM DEVICES WITH THE SPRINKLER CONTRACTOR.

13. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF A COMPLETE MOTEL TELEPHONE SYSTEM WITH OWNER AND LOCAL TELEPHONE COMPANY. INSTALL MINIMUM TWO 2 4" DIA. PVC CONDUITS, UNDERGROUND AND UNDER SLAB, FROM PROPERTY LINE (LOCATION AS DIRECTED BY PHONE COMP.) TO TELEPHONE PANEL IN ELEC. SLAB FROM TELEPHONE PANEL TO CORNER OF REGISTRATION DESK. CONDUITS SHALL BE INSTALLED WITH LONG RADIUS SWEEPS AND BE STUBBED TP 6' A.F.F. NOTE - MINIMUM CONDUIT SIZE FOR TELEPHONE SYSTEM SHALL BE 3/4" DIA.

14. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF A COMPLETE CABLE TELEVISION SYSTEM WITH OWNER AND LOCAL CABLE TV COMPANY. INSTALL MINIMUM 4" DIA. PVC CONDUIT UNDERGROUND AND UNDER SLAB, FROM BUILDING EXTERIOR TO CABLE TV PANEL IN UTILITY ROOM. CONDUIT SHALL BE INSTALLED WITH LONG RADIUS SWEEPS AND BE STUBBED UP 6' A.F.F. NOTE - MINIMUM CONDUIT SIZE FOR CABLE TV SYSTEM SHALL BE 1" DIA.

15. ALL RECEPTACLES AT BASEMENT, ELEVATOR, VANITY, BATH, KITCHEN COUNTER AREAS, AND WET LOCATION SHALL BE GROUND FAULT INTERRUPTER TYPE.

16. VERIFY EXACT LOCATIONS AND LOADS OF SERVICES TO EQUIPMENT TO BE SUPPLIED BY OTHERS, SUCH AS MECHANICAL EQUIPMENT.

17. RECESSED LIGHT FIXTURES IN RATED CEILINGS MUST BE PROTECTED OR LISTED FOR USE IN THE RATED ASSEMBLY.

18. ELECTRICAL OUTLETS BOXES ON OPPOSITE SIDES OF RATED WALLS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 24" MINIMUM.

19. MAINTAIN CLEARANCES IN FRONT OF ELECTRICAL EQUIPMENT (TRANSFORMER, PANELS, ETC.) AS REQUIRED BY MANUFACTURER AND NEC CODE 110-26(A). SEE TABLE.26(A)(1). (3'-0" TO 4'-0"). MINIMUM WIDTH 30"OR SIZE OF EQUIPMENT.

20. CONTRACTOR SHALL VERIFY ELECTRICAL CHARACTERISTICS BEFORE RUNNING CONDUIT AND WIRES.

21. SEE ARCHITECTURAL DRAWINGS FOR UNDER CABINET LIGHTING AND PROVIDE NECESSARY CIRCUITS.

22. CONTRACTOR SHALL VERIFY WITH UTILITY COMPANY VOLTAGES AND UTILITY COMPANY'S SCOPE OR WORK.

23. FIRE ALARM CONTRACTOR SHALL PROVIDE, INSTALL, AND WIRE DUCT SMOKE DETECTORS. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION. SEE MECHANICAL DRAWINGS AND NOTES.

24. CONTRACTOR SHALL PROVIDE WIRES AND CONDUIT FROM TRANSFORMER TO ELECTRICAL ROOM. SEE SITE PLAN FOR EXACT LOCATION OF TRANSFORMER AND ELECTRICAL POWER RISER FOR WIRES AND CONDUITS SIZES.

25. CONTRACTOR SHALL PROVIDE COMPLETE TELEPHONE WIRING FROM TELEPHONE OUTLETS TO TELEPHONE COMPANY'S MAIN TELEPHONE WIRES. CONTRACTOR SHALL COORDINATE THE SCOPE OF WORK WITH TELEPHONE COMPANY FOR COMPLETE OPERATION OF TELEPHONE SYSTEM.

26. THE BRANCH CIRCUIT FEEDING THE EMERGENCY LIGHT AND EXIT LIGHT (UNIT EQUIPMENT) SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVING THE NORMAL LIGHTING IN THE AREA AND CONNECTED AHEAD OF ANY LOCAL SWITCHES AS PER NEC CODE 700-12(F).

    a. EMERGENCY AND EXIT LIGHTS CONNECTED TO CIRCUITS CONTROLLED BY TIME CLOCK, OR PHOTOCELL SHALL HAVE BYPASS MEANS TO BE CONTINUOUSLY ENERGIZED WHEN CIRCUIT IS ACTIVE.

    b. CIRCUIT WITH EMERGENCY AND EXIT LIGHTS WITH NO SWITCH, TIME CLOCK OR PHOTOCELL SHALL BE PROGRAMMED TO OPERATE CONTINUOUSLY.

27. PROVIDE TWO HEAD WALL MOUNTED BATTERY EMERGENCY LIGHT AT EACH INTERMEDIATE LANDING OF STAIRWELL. AS PER NFPA-101-7.9.1.2

28. PROVIDE ON EVERY CORRIDOR A TWO HEAD BATTERY EMERGENCY LIGHT WITHIN THIRTY FEET OF THE END OF CORRIDOR AND MAXIMUM 60'-0 ON CENTER THROUGH THE CORRIDOR AS PER NFPA 101-7.9.1.2

29. PROVIDE TWO HEAD WALL MOUNTED BATTERY EMERGENCY LIGHT AT EACH EXIT WALKWAYS AS PER NFPA-101-7.9.1.2

30. NO PIPING , DUCT, OR EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE INSTALLED ABOVE THE ELECTRICAL PANEL BOARD, MOTOR CONTROL CENTER, OR SWITCHBOARD.

31. IF CEILING SPACE IS USED AS RETURN AIR PLENUM. DO NOT INSTALL ANY COMBUSTIBLE MATERIAL ABOVE THE CEILING. SEE SBC SECTION 707.2 AND 1005.3, SMC SECTION602.2.1

32. PROTECT PANELBOARDS, TRANSFORMERS, ETC. AS PER NEC CODE 110-27(B).

33. CONTRACTOR SHALL SUBMIT GROUND FAULT PERFORMANCE TESTS TO BUILDING INSPECTOR AND ENGINEER.

34. PROVIDE ATTIC LIGHT IF MECHANICAL EQUIPMENT ARE INSTALLED IN ATTIC OR ABOVE CEILING.

35. PROVIDE APPLICABLE PENETRATION FIRE-STOP SYSTEM AS PER SBC SECTION 705.4.

36. LIGHTING SHALL BE CONTAINED IN CUT-OFF TYPE LUMINARIES AND SHALL BE DIRECTED IN TOWARD THE PROPERTY SO AS NOT TO REFLECT INTO ADJACENT RESIDENTIAL PROPERTIES.

37. COMBINATION HORN STROBE SHALL BE INSTALLED WITHIN 15'-0" OF THE END OF EACH CORRIDOR AND MAXIMUM OF 50'-0" ON CENTER THROUGH OUT THE CORRIDOR AS PER NATIONAL FIRE ALARM CODE SECTION 6-4.4.2.2. (MIN. 90" ABOVE FINISH ED FLOOR AND BELOW THE FINISHED CEILINGS OF NOT LESS THAN 6 INCH.

38. INSTALL MANUAL PULL STATION AT EVERY FIRST FLOOR EXIT AND AT EACH DOOR OF STAIRWAY ON THE FLOORS ABOVE. ADDITIONAL MANUAL PULL STATION SHALL BE PROVIDED SO THAT TRAVEL DISTANCE TO THE NEAREST MANUAL PULL STATION SHALL NOT EXCEED OF 200 FT MEASURED HORIZONTALLY ON THE SAME FLOOR. MOUNTING HEIGHT SHALL BE NOT LESS THAN 42" AND NOT MORE THAN 54" ABOVE FINISHED FLOOR. SEE NATIONAL FIRE ALARM CODE SECTION 5-8.1.2

39. PROVIDE FIRE ALARM STROBE LIGHT IN EVERY PUBLIC REST ROOM AND OTHER GENERAL USAGE AREAS (E.G. CLASSROOMS, MEETING ROOMS), HALLWAYS, LOBBIES, AND ANY OTHER AREAS OF COMMON USE AS PER GA. ACCESSIBILITY CODE SECTION 120-3-20-.39

40. INSTALL SMOKE DETECTORS IN ALL COMMON AREAS SUCH AS LOBBIES, STORAGE ROOMS, EQUIPMENT ROOMS, BASEMENTS, ATTICS, SPACE ABOVE THE CEILINGS, CLOSETS, ELEVATOR SHAFTS, ENCLOSED STAIRWAYS, DUMBWAITER SHAFTS, AND DUTES, AND OTHER TENANTLESS SPACES. SEE NATIONAL FIRE ALARM CODE SECTION 5-1.4.2

41. CEILING SMOKE DETECTORS SHALL BE INSTALLED IN ALL CORRIDORS. SMOKE DETECTORS SHALL BE INSTALLED WITHIN 15'-0" OF THE END OF EACH CORRIDOR AND MAXIMUM 30'-0" ON CENTER THROUGH OUT THE CORRIDOR.

42. PROVIDE TWO HEAD WALL MOUNTED BATTERY EMERGENCY LIGHT AT EACH INTERMEDIATE LANDING OF STAIRWELL.

43. PROVIDE ON EVERY CORRIDOR A TWO HEAD BATTERY EMERGENCY LIGHT WITHIN THIRTY FEET OF THE END OF CORRIDOR AND MAXIMUM 60'-0 ON CENTER THROUGH THE CORRIDOR.

44. ALL OUTLETS W.THIN SIX FEET OF ANY SINK SHALL BE GROUND FAULT PROTECTION TYPE.

45. ALL POWER OUTLETS LOCATED ADJACENT TO DATA OUTLETS SHALL BE ISOLATED GROUND TYPE.

46. PROVIDE POWER TO ELECTRIC OPERATED DOORS. SEE ARCHITECTURAL PLANS FOR LOCATION AND TYPE.

47. PROVIDE POWER TO GARBAGE DISPOSAL AND DISHWASHER. SEE PLUMBING AND ARCHITECTURAL PLANS.

48. PROVIDE SHUNT-TRIP BREAKER TO ELEVATOR.

49. PROVIDE FIRE SAFE BLANKET WRAP AROUND EACH OUTLET BOX IN FIRE RATED ASSEMBLY TO MAINTAIN ASSEMBLY FIRE RATING.

50. A WRITEN RECORD OF THE GROUND FAULT PERFORMANCE TEST RESULTS SHALL BE MADE AVAILABLE TO THE COUNTY INSPECTOR OR PLAN REVIEWER.

56. PROVIDE GROUND FAULT PROTECTION TYPE (GFI) RECEPTACLES AT THE FOLLOWING LOCATION:

    a. BATHROOM
    b. KITCHEN COUNTER TOP INCLUDING COMMERCIAL KITCHEN
    c. WITHIN SIX FEET OF ANY SINK
    d. OUTSIDE WITH WEATHERPROOF (READILY ACCESSIBLE).
    e. ELEVATOR
    f. WET LOCATION.
    g. AS PER NEC 210-8.

51. BRANCH CIRCUIT CONDUCTORS:

    WIRES RUN OVER 100 FEET LONG SHALL BE SIZED NEXT SIZE OF WIRE SCHEDULE. THIS APPLIES TO THE ENTIRE CIRCUIT OR CIRCUITS.

52. CONTRACTOR SHALL PROVIDE ALL ELECTRICAL AND FIRE REQUIREMENTS TO ELEVATORS AND ELEVATOR MACHINE ROOM AS PER LOCAL AND STATE ELEVATOR CODE WHETHER IT IS INDICATED ON DRAWINGS OR NOT. CONTRACTOR SHALL FULLY RESPONSIBLE TO VERIFY ALL ELECTRICAL AND FIRE REQUIREMENTS WITH THE LOCAL AND STATE ELEVATOR CODE.

53. DO NOT INSTALL ELECTRICAL OUTLETS ABOVE ELECTRIC HEATER.

54. ALL DISCONNECTING SWITCHES SHALL BE IDENTIFIED AS PER NEC CODE SECTION 110.22.

55. LAY-IN LIGHT FIXTURES SHALL BE SUPPORTED WITH FOUR WIRE HANGERS INDEPENDENT OF THE CEILING GRID SYSTEM AND SECURED TO THE GRID SYSTEM.

56. ALL LIGHT FIXTURES SHALL BE AIR-LOCK TYPE.

57. DO NOT INSTALL ANY ELECTRICAL PANELS OR EQUIPMENT IN MEANS OF EGRESS AREA.

58. PROVIDE LIGHT OCCUPANT SENSING DEVICE OR DUAL SWITCHING OF ALTERNATE ROWS OF LUMINAIRES OR SWITCHING THE MIDDLE LAMP LUMINAIRES INDEPENDENTLY OF THE OUTER LAMP. (SEE SECTION 505-2.2 OF INTERNATIONAL ENERGY CONSERVATION CODE 2006).

59. ALL EXTERIOR LIGHT FIXTURES SHALL BE CORROSION RESISTANCE (SPECIAL COATING FOR COAST AREA) AND WET LABEL TYPE.

DETECTION AND ALARM SYSTEM

PART 1 GENERAL

1 01 SCOPE

A. This specification provides for the requirements for a fire detection and alarm system. The system shall include, but not be limited to, control panel, alarm initiating and indicating peripheral devices, conduit, wire, and accessories required to provide a complete operational system. Connect the new panel to the existing building panel for communications of alarm/trouble signals for alarm activations of either panel to alarm when either system is in alarm.

B. General Conditions, Supplementary Conditions and General Requirements shall govern the work of this section.

1 02 STANDARDS

A. The equipment and installation shall comply with the current applicable provisions of the following standards:

1 National Electric Code, Article 760
2 National Fire Protection Standards
3 Local and State Building Codes
4 All requirements of the Local Authority Having Jurisdiction.

B. The system and all components shall be listed by Underwriters' Laboratories, Inc. for use in fire protection signaling system.

1 03 SUBMITTALS

A. The contractor shall submit documentation showing the type, size, rating, style, catalog number, manufacturers' name, photos, and/or catalog data sheets for all items to ensure compliance with these specifications. Battery size calculations shall also be provided as part of submittal data.

B. Only equipment devices have been shown on the contact drawings. Any specific wiring between equipment shown is not for construction purpose. The contractor shall submit for approval the complete layout of the entire system, showing wiring and all equipment.

C. All equipment proposed as equal to that specified herein, shall conform to the standards herein. For equipment other than specified, the contractor shall supply proof that such substitute equipment does in fact equal or exceed the features, functions, performance, and quality of the specified equipment, and must obtain the architect's or owner's approval in writing ten (10) working days prior to bidding such substitute equipment.

1 04 EQUIPMENT MANUFACTURERS

A. All references to manufacturer's or supplier's model number and other pertinents information herein is intended to establish minimum standards of performance, function and quality. Equivalent equipment form other manufacturers may be substituted for the specified providing the submittal is performed as specified above.

B. General Equipment and Material Requirements.

1. All equipment and material shall be new and unused.
2. All components and systems shall be designed for continuous duty without undue heating or degradation of function or performance.
3. All equipment materials, accessories, devices, and other facilities covered by the specifications or noted on contract drawings and installation specifications shall be the best suited for their intended use and shall be provided by a single manufacturer or, if provided by different manufacturers, recognized as compatible by both manufacturers.

PART 2-PRODUCTS

2.0 1 FIRE ALARM CONTROL PANEL

2.0 1 Alarm detection When a fire alarm condition is detected by the one of the System-initiating devices, the following function shall immediately occur. The System alarm LED shall flash. A local sounding device in the panel shall be activated. The 80-character LCD display shall indicate all pertinent information associated with the alarm and its location. All automatic programs assigned to the alarm point shall be executed and the associated indicating devices and relays activated.

A System trouble detection when a trouble condition is detected by one of the system initiating devices, the following functions shall immediately occur. The System Trouble LED shall flash. A local sounding device in the panel shall be activated. The 80-character LCD display shall indicate all pertinent information associated with the trouble condition and its location. However, undesignated must be displayed, the trouble message shall not be displayed on the LCD. The appropriate message shall be sent to CRT and printer.

B Control switch operation:

1 Acknowledge (ACK/STEP) Switch Activation of the control panel Acknowledge switch is response to a single new trouble or alarm condition shall silence the panel sounding device and change the System Alarm or Trouble LEDs from flashing to steady-ON. If additional new alarm or trouble conditions exist in the system, activation of this switch shall advance the display to the next alarm or trouble condition that exists, and shall not silence the local audible device or change the LEDs to steady until all new conditions have been so acknowledge. New alarm conditions shall always be displayed before new trouble conditions. Activation of the Acknowledge displayed on System CRTs and Printers. Occurrence of a new alarm or trouble condition shall cause the panel to resound and the alarm/trouble sequences shall repeat.

2 Signal Silence Switch - Activation of the Signal Silence Switch shall cause all appropriate indicating appliances and relays to return to the normal condition after a condition. The selection of indicating circuits and relays silenced by this switch shall be fully programmable.

3 System Reset Switch Activation of the System Reset Switch shall cause all output devices and circuits, to return to the normal condition. If alarm conditions exist in the system after the System Reset Switch activation, the system shall then resound the alarm conditions.

4 System Test Switch Activation of the System Test Switch shall initiate an automatic test of all intelligent detectors in the system. Such test shall activate the electronics in each intelligent device, simulating an alarm condition. A report summarizing results of this test shall be displayed automatically on the front panel, as well as on any CRTs or printers on the System.

5 Lamp Test Switch Activation of the Lamp Test Switch shall turn on all LED indicators, LCD display and local sounder, and then return to the previous condition.

C Service Aids:

1 Automatic Detector Test The system shall include a special Automatic Detector Test, which permits a serviceman to test all intelligent detectors from the main control panel.
2 Watch-Dog Timers The system shall include independent "Watch-Dog timers to detect and report failure of any microprocessor circuit, memory, or software.

D Field Programming:

1 The system shall be programmable, configurable and expandable in the field Without the need for special tools of PROM programmers and shall not require replacement of memory Ics. All programming may be accomplished through the standard control panel keyboard or through the use of the optional CRT-1 keyboard. All programs shall be stored in non-volatile memory. The programming function shall be entered with a special password that may be selected when the system in installed. The password may be changed to a new value at any time by entering the old password and requesting a password and then lose or forget it, the system shall be designed such that the password may be determined by special procedures available through the system manufacturer.

E Sensitivity Adjust:

1 Means shall be provided for adjusting the sensitivity of any or all-analog intelligent detectors in the system from the keypad or from the CRT keyboard. Sensitivity range shall be within the allowed UL window, and shall be a HIGH/MEDIUM/LOW selection.

F Mechanical Design:

1 The control panel shall be housed in a cabinet designed for mounting directly to a wall or vertical surface. The back box and door shall be constructed of 16-gauge steel with provisions for electrical conduit connections in to the sides and top. The door shall provide a key lock and shall include a glass or other transparent opening for viewing of all indicators. The cabinet shall be approximately 16.125" high, 14.5" wide and 5.5" deep.

G System capacity: The control panel shall provide or be capable of expansion to the following capacities:

1 Total programmable input/output points: 301
2 Intelligent Detectors: 99
3 Addressable monitor/control modules: 99
4 Programmable IAC (bell) circuits in panels: 4
5 Programmable software zones: 99
6 LCD annunciators per system: 4
7 ACS annunciators per system: 10

B Central Processing Module (CPU): The CPU shall communicate with, monitor and control all others modules in the panel. Removal, disconnection or failure of any control panel module shall be detected and reported by the CPU. The CPU shall contain and execute all control-by-event programs for specific action to be taking if a fire situation is detected in the system. Such control-by-event programs shall be held in non-volatile programmable memory, and shall not be lost even if system primary and secondary power failure occurs. The CPU shall also provide a real-time clock for time annotation on the display CRT and printer. The main equipment shall be supplied with a 5-amp power supply. Notifier model AFP-200. Provide UDACT and connect to telephone system. Provide Monitoring for One Year with Owner approval.

2.0 8 SMOKE AND HEAT DETECTORS:

A The detectors shall use the photoelectric (light-scattering) principal to Measure smoke density and shall, on command from the control panel, send data to the panel representing the analog level of smoke density. Notifier model FSP-751 or FST-751 with appropriate Base.

2.0 9 INTELLIGENT DUCT DETECTORS

A The air duct smoke detector shall be 24 VDC operation, accommodate intelligent ionization or photoelectric heads, listed for UL 268A specifically for use in air handling systems. The detector head shall provide continuous sensitivity monitoring and alarm verification from the Fire Alarm Control Panel. The detector shall operate at air velocities of 300 to 4000 feet per minute. The duct detector shall be 4-wire with a reset time of 0.03 seconds maximun, equipped with two sets Form C auxiliary contacts. The housing shall be made of NORYL with a clear polycarbonate cover for convenient visual inspection of sampling the filters. It shall be capable of mounting to either round or rectangular ducts from one foot to twelve feet wide. Powered outputs shall be available for remote LED and sounder/strobe options and have the capability for a remote test station option. Notifier FSD-751P with FRM-1 Relay module, provided with sampling tube sized as appropriate. Provide remote test switch.

B ADDRESSABLE MANUAL STATIONS

1 The addressable manual station shall connect with two wires to tone of the SLC loops. The manual station shall, on command from the control panel, send data the panel representing the state of the manual switch) The manual station shall provide address-setting means using rotary decimal switches and shall also store an internal identifying code, which the control panel shall use to identify the type of device. An LED shall be provided which shall flash under normal conditions, indicating that the Manual Station is operational and in regular communication with the control panel. The LED may be placed into steady illumination by the control panel, indicating that an alarm condition has been detected. The station shall also be key-resettable. Notifier model NBG-12LX.

C ADDRESSABLE CONTROL MODULES

1 The control module shall be used to connect a conventional indicating appliance circuit (AC) of 24 VDC compatible polarized Audio/Visual indicating appliances to one of the SLC loops. The control module shall mount in a standard 4-inch square, 2-1/8" deep electrical box. The IAC may be wired for Style Z or style Y operation. The control module may also be wired as a dry contact (form C) relay. Power for the relay coil shall be provided by the SLC loop to reduce wiring connection requirements. Audio/Visual power shall be provided by a separate loop from the main control panel or from supervised remote power supplies. The control module shall provide address-setting means using rotary decimal switches and shall also store an internal identifying code, which the control panel shall use to identify the type of device. An LED shall be provided which shall flash under normal conditions, indicating that the Control Module is operational and in regular communications with the control panel. Notifier model FCM-1.

D AUDID/VISUAL DEVICES

1 The horn/strobe shall be UL Listed for use with Fire Protective Signaling Systems and accepted by the local Authority Having Jurisdiction (AHJ). Horn/strobe models shall have a minimum sound output of 90 dBA at 10 feet measured in an anechoic chamber with peak meter response. The strobe shall be multi-candela and meet or exceed the requirements of the Americans with Disabilities Act (ADA). The device shall be 24 VDC nominally and have an acceptable operating range of 18-31 VDC and shall draw no more than 0.225 amps. It shall flush mount to a single or double gang back box. Gentex model GEC3-24WR. Set at minimum 75 candela.
2 Strobes only shall be Gentex GES3-24WR. Set at minimum 75 candela.

PARTS 3 EXCUTION

3.0 1 INSTALLATION

A Installation shall be in strict compliance with manufacturer's recommendations. Consult manufacture for all wiring diagram, schematics, sizes, outlets, etc. before installing conduits and pulling wires.

B Conduit and Conductors: Provide complete wiring and conduit between all equipment. Unless specified otherwise herein, all wire shall be minimum #16 Type TFN (solid) or #14 Type THHN/THWN in separate raceway, maximum 40 % full, or approved fire alarm cable as recommended by manufacturer. If cable used, conduits or proper size shall be installed from all equipment and devices into accessible space; all devices shall be mounted upon and all splices made in Listed Boxes. Wiring splices are to be avoided to the extent possible and transposing or changing colors will not be permitted. All junction boxes shall be labeled as "Fire Alarm System" with decal or approved markings. Comply with all local, state and national codes.

C All equipment shall be held firmly in place. Fastening and supports shall be adequate to support the load with a safety factor or five.

D Fire Alarm Control Panel shall be connected to a separate dedicated branch circuit, maximun 20 amperes. Circuit shall be labeled as "Fire Alarm"

E All field wiring shall be completely supervised. In the event of a primary power failure, disconnected standby battery, disarrangement of any components, or any open circuits in the system; an audible and visual trouble signal will be activated until the system is restored to normal.

F As indicated on the drawings, each zone shall be labeled within the operational program memory of the Fire Alarm Control Panel. Names of the zones shall be coordinated with the Owner, and shall meet with the Owner's approval.

G Fire Sprinkler System(s) shall each be indicated on a separate zone, if applicable.

3.0 2 TESTS AND REPORTS

A The system will be accepted only after a satisfactory test of the entire system has been accomplished by a factory-trained distributor in the presence of a representative of the Authority Having Jurisdiction and the Owner's Representative.

B Contractor shall provide the on-site services of an authorized technical representative of the manufacturer, to supervise all connections and fully test all devices and components of the system as installed. Owner's representative shall be instructed in the proper use and testing of the system.

ELECTRICAL SPECIFICATIONS

I. GENERAL

A. PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND NECESSARY ITEMS AND OBTAIN AND PAY FOR ALL FEES AND PERMITS REQUIRED TO INSTALL A COMPLETE ELECTRICAL SYSTEM.

B. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE ELECTRICAL SYSTEM, REGARDLESS OF WHETHER EACH INDIVIDUAL COMPONENT IS MENTIONED OR NOT.

C. THE WORK SHALL COMPLY WITH THE STANDARDS OF THE FOLLOWING CODES AND ORDINANCES:

1. NFPA NO. 70, "NATIONAL ELECTRIC CODE," LATEST ED.
2. NECA "STANDARD OF INSTALLATION"
3. THE ELECTRICAL UTILITY COMPANY SERVICE STANDARDS
4. UNDERWRITER'S LABORATORY STANDARDS
5. OTHER LOCAL CODES, ORDINANCES AND LAWS APPLICABLE TO THE LOCATION OF THIS PROJECT.

D. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH TELEPHONE SYSTEM, CABLE TV, AND SECURITY SYSTEM INSTALLATIONS.

II. MATERIALS AND WORKMANSHIP:

A. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR TIMELY PLACEMENT OF ALL CONDUITS, OUTLET BOXES, CABINETS, AND OTHER WIRING DEVICES IN FLOORS, WALLS, CEILINGS, ETC. AS THE CONSTRUCTION PROGRESSES.

B. OUTLET BOXES SHALL BE LOCATED AS FOLLOWS:

1. WALL SWITCHES - 4'-0" ABOVE FINISH FLOOR. (CENTER)
2. CONVENIENCE OUTLETS - 16" A.F.F. (CENTER)
3. EQUIPMENT OUTLETS AS REQUIRED (VERIFY)

C. WIRING SYSTEM SHALL BE AS FOLLOWS:

1. RIGID CONDUIT-GALVANIZED STEEL OR RIGID ALUMINUM AS PERMITTED BY N. E. C.
2. EMT- ELECTRIC METALLIC TUBING CONDUIT MAY BE USED ONLY WHERE IT IS NOT SUBJECT TO MECHANICAL DAMAGE AND WHERE PERMITTED BY THE N. E. C. AND LOCAL CODES.
3. FLEXIBLE METAL TUBING - TO BE USED AT CONNECTIONS WHERE REQUIRED. CONNECTIONS SHALL BE MADE WITH GROUND. ALL SUCH CONNECTIONS SHALL BE LIQUID TIGHT.
4. UNDERGROUND CIRCUIT SHALL BE SCHEDULE 40 PVC.

D. CONDUCTORS SHALL BE COPPER, TYPE THWN/THHN.

E. CONVENIENCE RECEPTACLES SHALL BE 15 (20)AMP., 125 VOLT NEMA 5-15(20)R.

F. WALL SWITCHES SHALL BE 20 AMP. 120/277 V. AC, SINGLE POLE OR AS INDICATED ON THE DRAWING.

G. PANELBOARDS SHALL BE BY SQUARE D, SIEMENS, OR GENERAL ELECTRIC.

H. GROUNDING OF ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE NEC AND LOCAL REQUIREMENTS.

I. ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ITEMS SHOWN AS PART OF THE GENERAL CONTRACT WHICH REQUIRE ELECTRICITY-INCLUDING ALL SIGNAGE, BUILDING LIGHTING, AND CONTROL WIRING.

J. FUSES SHALL BE DUEL-ELEMENT CURRENT LIMITING FUSES IN ALL DISCONNECT SWITCHES OR OTHER FUSIBLE DEVICES. FURNISH A SPARE FUSE OF EACH TYPE USED ON THE JOB.

K. ELECTRICAL CONTRACTOR SHALL INSTALL AND CONNECT MOTOR STARTERS, RELAYS, SWITCHES, AND RELATED ITEMS WHICH ARE SUPPLIED BY OTHERS.

L. ALL MATERIAL SHALL BE NEW AND UL APPROVED AND LABELED.

M. ALL ELECTRICAL EQUIPMENT AND SYSTEMS SHALL BE TESTED AND ADJUSTED FOR PROPER OPERATION. COMPLETE WIRING SYSTEM SHALL BE FREE OF SHORT CIRCUITS.

N. CONTRACTOR SHALL MAKE COMPLETE CONNECTIONS TO ALL EQUIPMENT. COORDINATE WITH EQUIPMENT SUPPLIER FOR EXACT LOCATIONS AND REQUIREMENTS.

O. RUN 3/4"C W/PULL WIRE FROM TV, TELEPHONE AND DATA OUTLETS TO TELEPHONE ROOM 115.

P. RUN 2-2"PVC CONDUITS W/PULL WIRE TO PROPERTY LINE FOR TELEPHONE. COORDINATE W/TELEPHONE UTILITY.

Q. RUN 1 4" PVC PULL WIRE TO PROPERTY LINE FOR TV CABLE. COORDINATE W/CABLE SUPPLIER.

R. CONTRACTOR MUST SUBMIT EQUIPMENT DATA FOR APPROVAL TO ENGINEER.

3.0 2 WARRANTY

A Provide one-year warranty on the entire system including on-site labor during normal working hours at no additional cost to the Owner for a period of twelve (12) months from the date of acceptance.

B Guarantee response to a trouble call within one normal business day after receipt of such call.

3.0 3 FINAL

A Protect finished installation from damage by other trades.
B Remove rubbish and leftover materials from the site.

END OF SECTION

ISSUED FOR CONSTRUCTION. DATE: 04-30-2009

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

CONSULTANTS

Date Plotted : Apr 30, 2009 - 11:18am
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GEORGIA REGISTERED No. 15330 PROFESSIONAL ENGINEER

CITY OF OXFORD GEORGIA
New City Hall

SHEET TITLE: ELECTRICAL NOTES & SPECIFICATIONS

PRINTED:

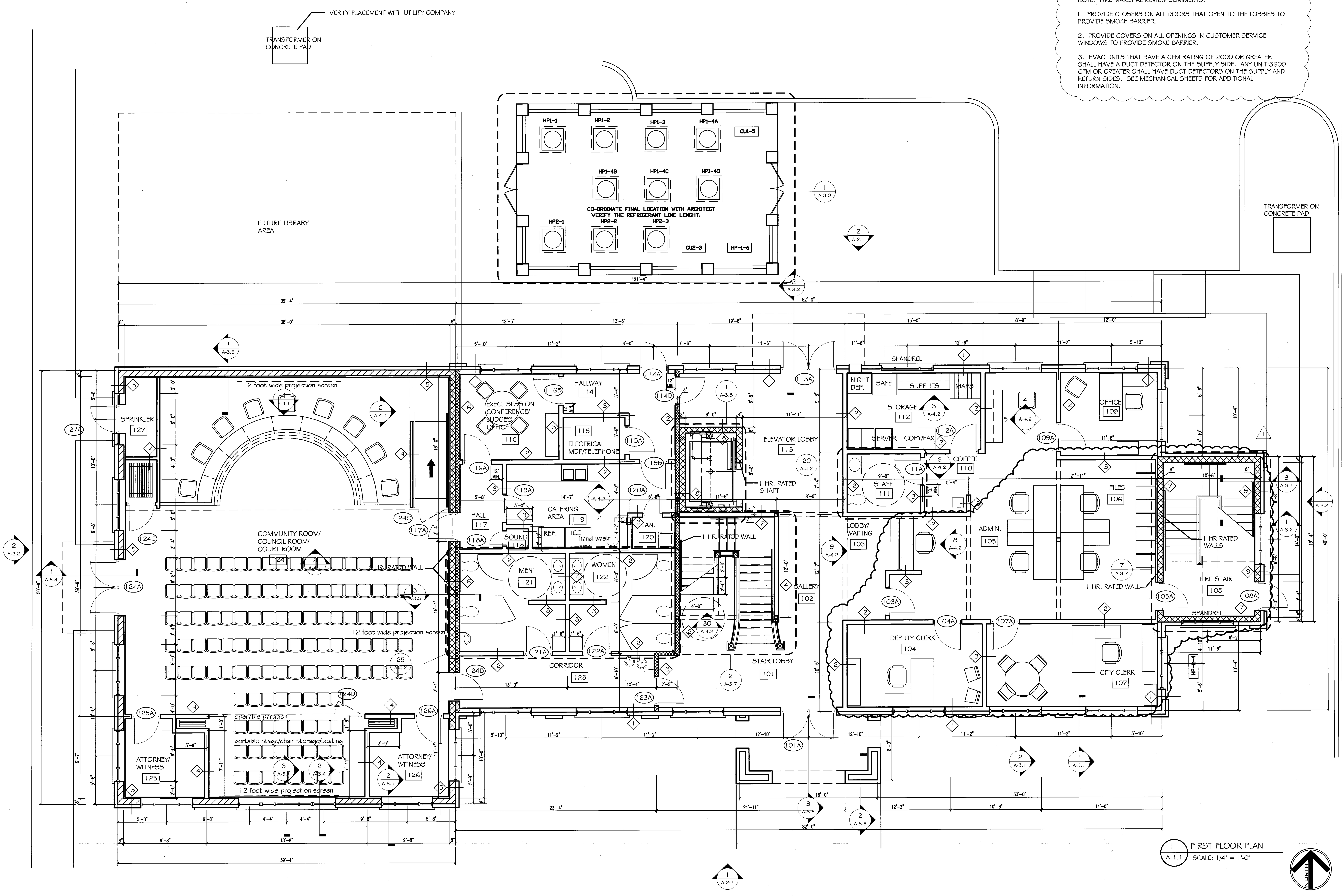
NUMBER: E-6

NOTE: FIRE MARSHAL REVIEW COMMENTS.

1. PROVIDE CLOSERS ON ALL DOORS THAT OPEN TO THE LOBBIES TO PROVIDE SMOKE BARRIER.

2. PROVIDE COVERS ON ALL OPENINGS IN CUSTOMER SERVICE WINDOWS TO PROVIDE SMOKE BARRIER.

3. HVAC UNITS THAT HAVE A CFM RATING OF 2000 OR GREATER SHALL HAVE A DUCT DETECTOR ON THE SUPPLY SIDE. ANY UNIT 3600 CFM OR GREATER SHALL HAVE DUCT DETECTORS ON THE SUPPLY AND RETURN SIDES. SEE MECHANICAL SHEETS FOR ADDITIONAL INFORMATION.



ISSUED FOR CONSTRUCTION. DATE: 1 / 12 / 09

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
1	09-01-09	STAIR RELOCATION			
2	10-06-09	FIRE MARSHAL REVIEW			

CONSULTANTS

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SEAL

STATE OF GEORGIA
BENJAMIN MERCER CARTER
REGISTERED ARCHITECT

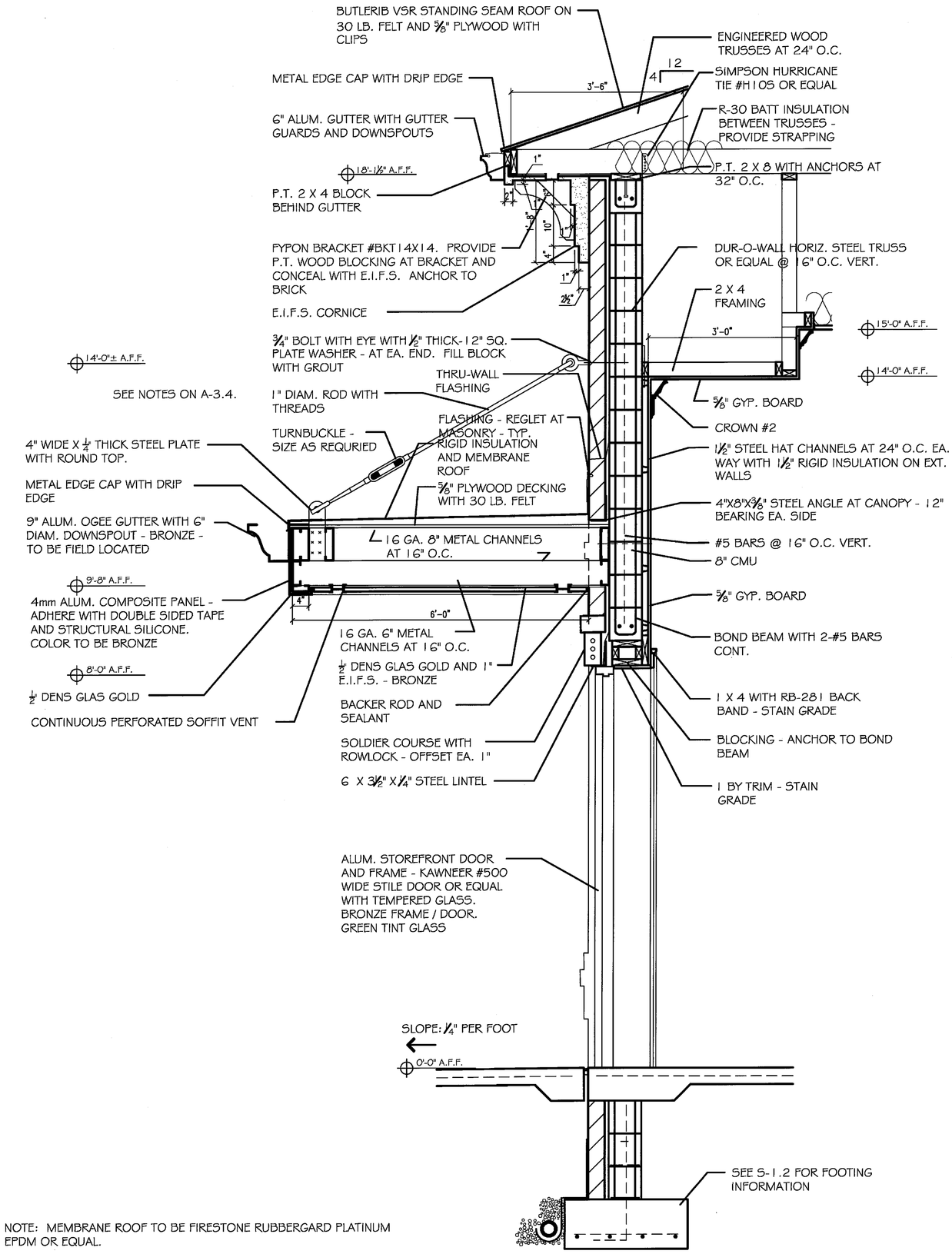
CITY OF OXFORD GEORGIA
New City Hall

SHEET TITLE: FIRST FLOOR PLAN

PRINTED:

NUMBER: **A-1.1**

NOTE: MEMBRANE ROOF TO BE FIRESTONE RUBBERGARD PLATINUM EPDM OR EQUAL.



NOTE: MEMBRANE ROOF TO BE FIRESTONE RUBBERGARD PLATINUM EPDM OR EQUAL.

NOTES: CANOPY

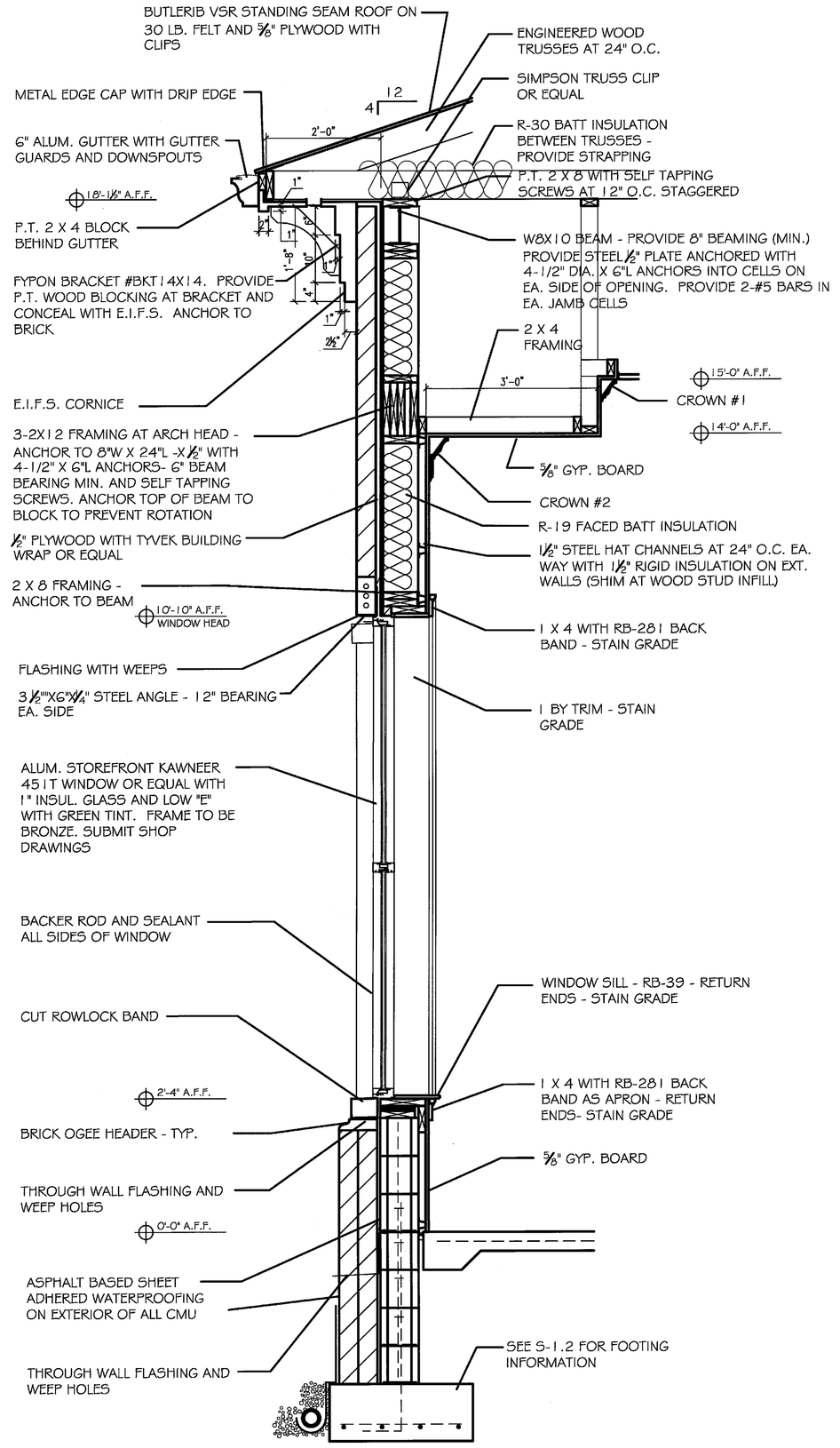
1. SUBMIT SHOP DRAWINGS SHOWING ACTUAL AS-BUILT CONDITIONS, DIMENSIONS, CONNECTIONS, FRAMING, ETC. AS REQUIRED FOR EACH RENOVATED AND NEW CONSTRUCTED CANOPY

2. SHOP DRAWINGS TO BE STAMPED BY A GEORGIA REGISTERED ENGINEER.

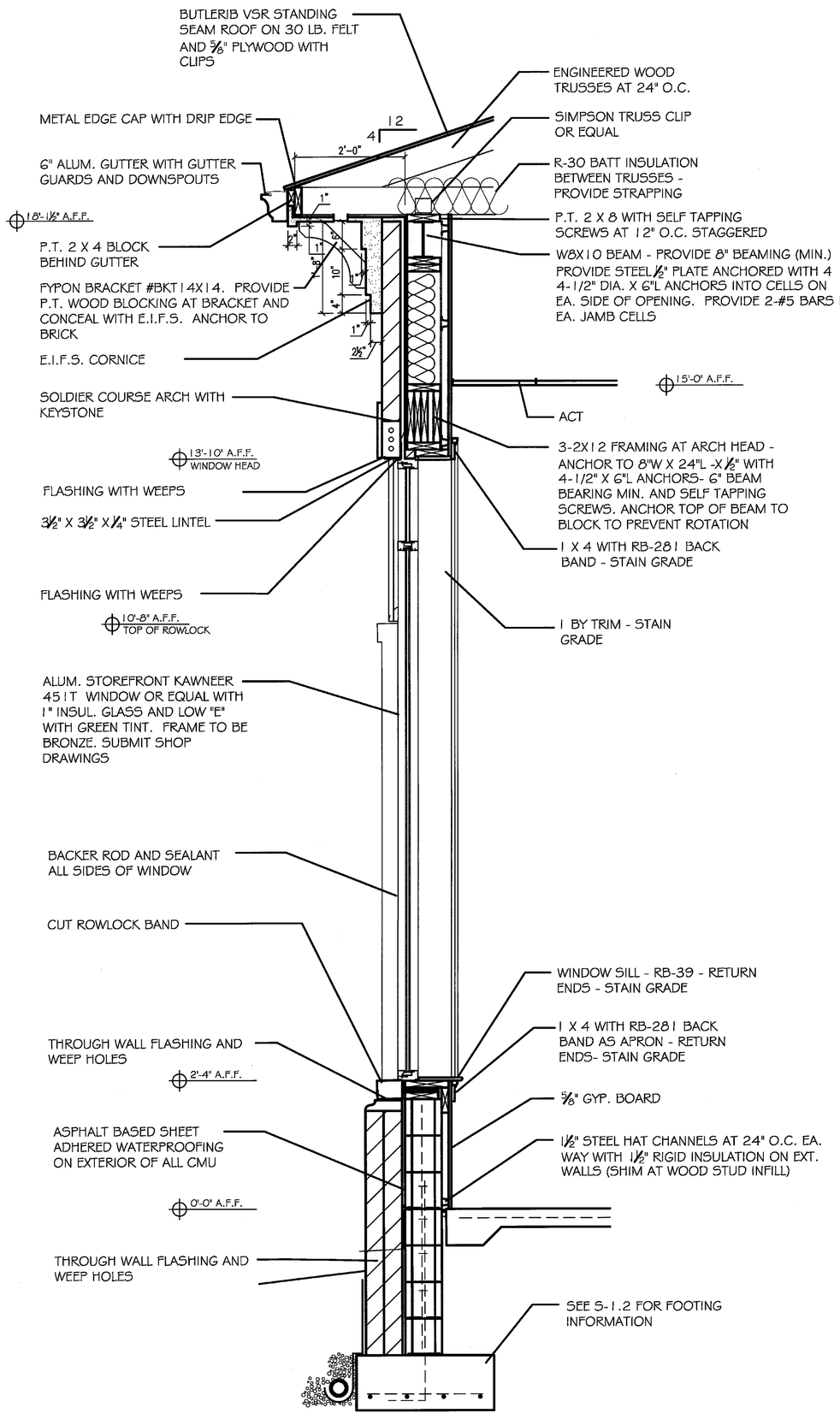
3. PROVIDE .090 BRONZE ANODIZED FLASHING AT BRICK WALL AND MEMBRANE ROOF - TYPICAL.

4. ANCHOR CHANNEL TO BLOCK OR WOODBEAM THROUGH BRICK AND SEAL. PROVIDE FLASHING ABOVE AWNING - WEEP - TYPICAL. PROVIDE SEALANT AT CANOPY AND BRICK/E.I.F.S. - TYPICAL.

1 / A-3.4 COMMUNITY ROOM ENTRANCE SECTION
SCALE: 3/4" = 1'-0"



2 / A-3.4 COMMUNITY ROOM ACCENT WINDOW SECTION
SCALE: 3/4" = 1'-0"



3 / A-3.4 COMMUNITY ROOM ACCENT WINDOW SECTION
SCALE: 3/4" = 1'-0"

ISSUED FOR CONSTRUCTION. DATE: 1 / 12 / 09

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

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SEAL
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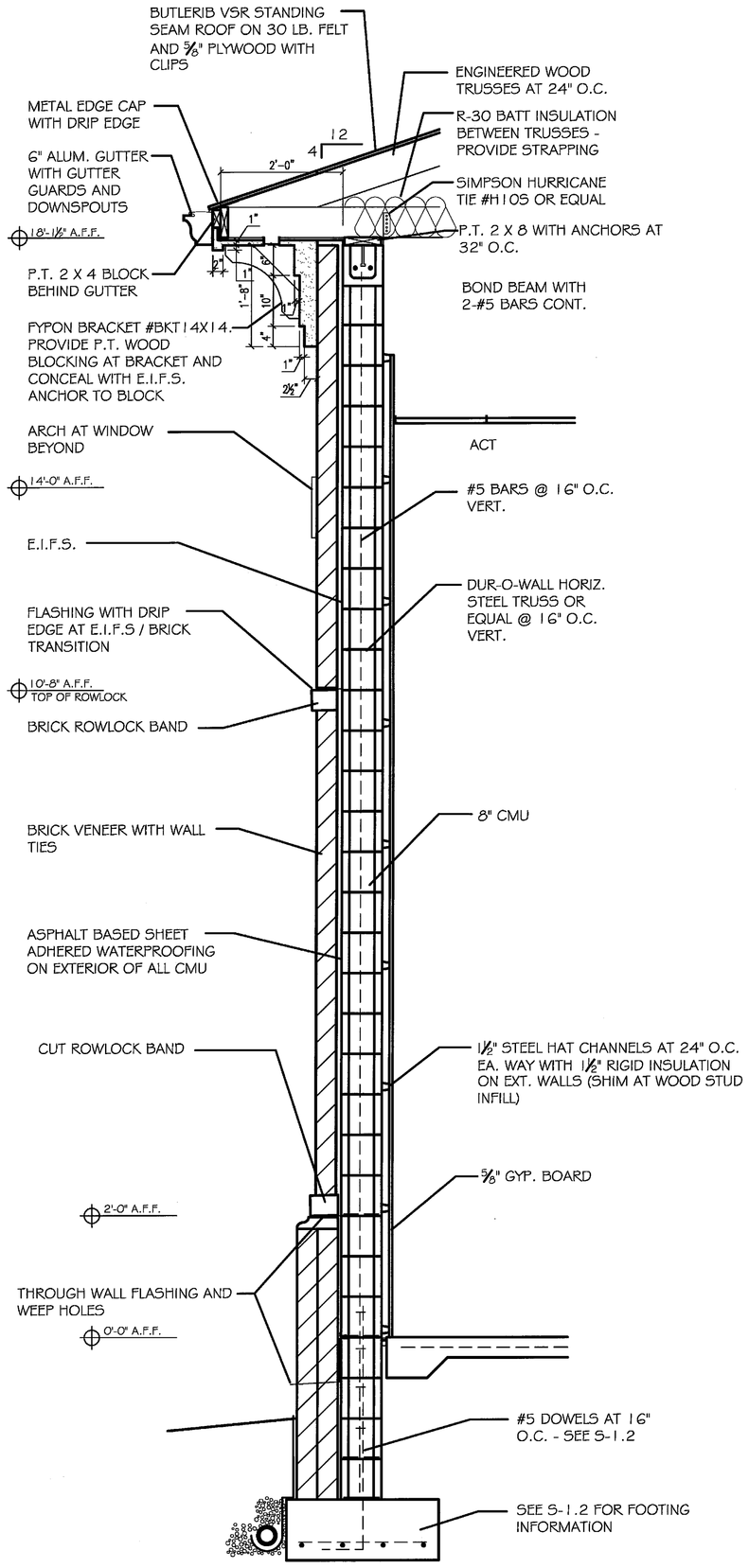
BENJAMIN MERCER CARTER
REGISTERED ARCHITECT

CITY OF OXFORD GEORGIA
New City Hall

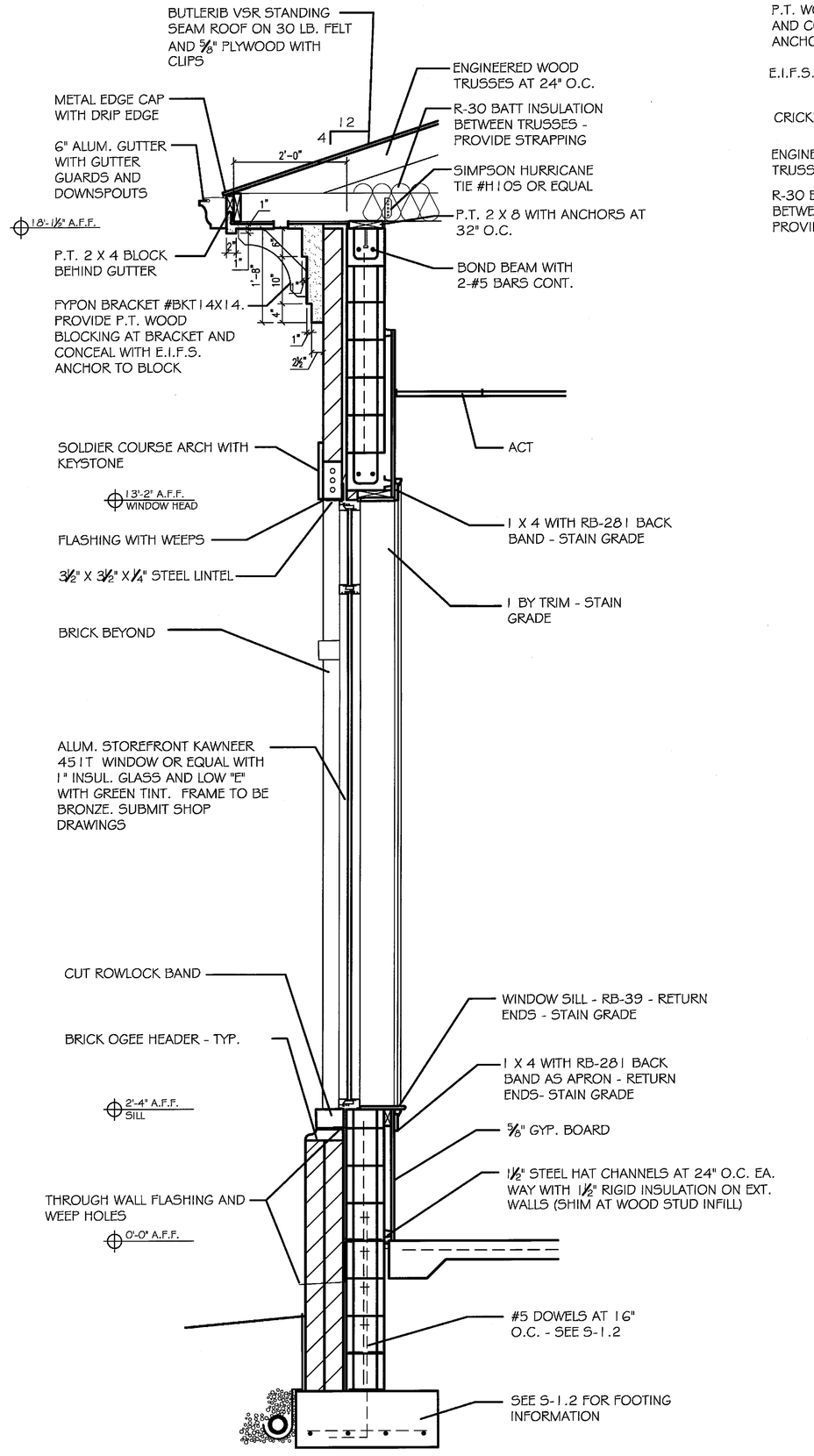
SHEET TITLE: WALL SECTION

PRINTED:

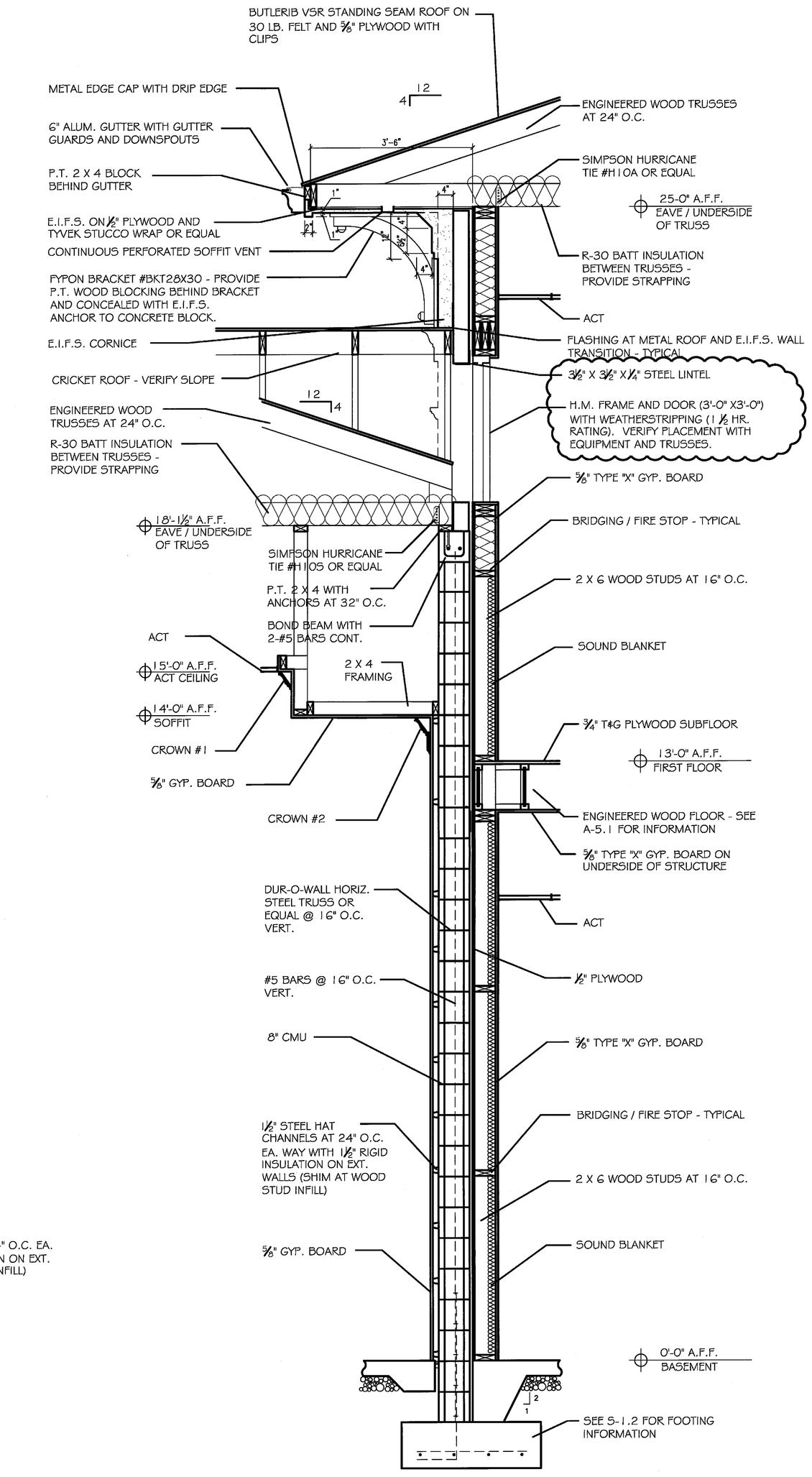
NUMBER: A-3.4



1 A-3.5 COMMUNITY ROOM WALL SECTION
SCALE: 3/4" = 1'-0"



2 A-3.5 COMMUNITY ROOM WINDOW SECTION
SCALE: 3/4" = 1'-0"



3 A-3.5 COMMUNITY ROOM & CITY HALL WALL SECTION
SCALE: 3/4" = 1'-0"

ISSUED FOR CONSTRUCTION. DATE: 1 / 12 / 09

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
X	00-00-00	N/A			

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SEAL
STATE OF GEORGIA
BENJAMIN MERCER CARTER
CERTIFICATE NO. 026
REGISTERED ARCHITECT

CITY OF OXFORD GEORGIA
New City Hall

SHEET TITLE: WALL SECTION

PRINTED:

NUMBER: A-3.5

NOTE: FIRE PROTECTION

1. PROVIDE FIRE ALARM WITH VOICE ANNUNCIATOR. PROVIDE STROBE IN ALL BATHROOMS AND ALL OCCUPIED SPACES WITH MORE THAN FOUR (4) PEOPLE. PROVIDE HORN AND STROBE IN ALL SLEEPING ROOMS.

2. ALL AREAS (INCLUDING ALL ATTIC SPACES, PLENUM, EXTERIOR SOFFITS, DROPPED SOFFITS, ETC.) TO BE PROTECTED WITH AUTOMATIC EXTINGUISHER SYSTEM IN ACCORDANCE WITH NFPA 13. ALL SPRINKLER LINES AND SYSTEMS IN UNCONDITIONED SPACES TO BE INSULATED. PROVIDE PIPE INSULATION AND COVER WITH ATTIC INSULATION.

3. PROVIDE MANUAL FIRE ALARM PULL STATIONS WITH 5'-0" OF ALL EXITS.

4. FIRE ALARM SHALL HAVE VOICE COMMUNICATION AND FIRE DEPARTMENT CONNECTION.

NOTE: SPRINKLER

1. CONTRACTOR TO SUBMIT ENGINEER DESIGNED AUTOMATIC FIRE SPRINKLER SHOP DRAWINGS TO ARCHITECT AND FIRE MARSHAL FOR APPROVAL. PROVIDE HYDRAULIC CALCULATIONS, DEVICE CUT SHEETS, PUMP SPECIFICATIONS, ETC.

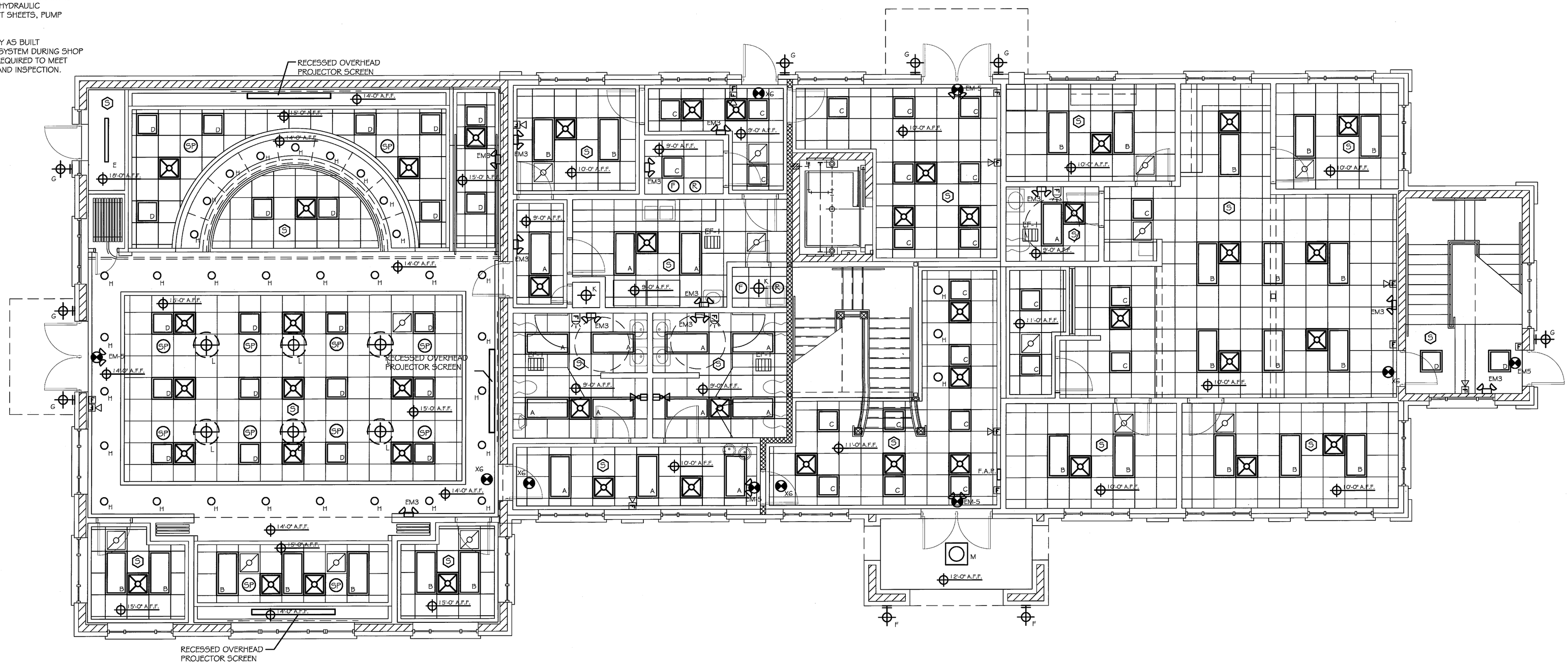
2. CONTRACTOR TO VERIFY AS BUILT CONDITIONS AND MODIFY SYSTEM DURING SHOP DRAWING OR IN-FIELD AS REQUIRED TO MEET FIRE MARSHAL APPROVAL AND INSPECTION.

NOTE: OVERHEAD PROJECTORS TO BE DA-LITE 69" X 92" (4:3 RATIO) SCREEN, VIDEO SPECTRA 1.5 VIEWING SURFACE, WIRELESS REMOTE CONTROL, WIRED WALL CONTROL. COORDINATE MOUTING CLEARANCES AND ELECTRICAL REQUIREMENTS. EXTERIOR FINISH TO BE WHITE (OR MATCH SOFFIT).

NOTE: PROVIDE 'RATE OF RISE / FIXED HEAT' HEAT DETECTORS AT 100 SQ. FT. INTERVALS IN THE ATTIC.

NOTE: SMOKE DETECTORS AND ALARM SYSTEM

SMOKE DETECTORS SHALL BE LOCATED IN ALL COMMON SPACES, SLEEPING ROOMS, AND CORRIDORS. DETECTORS IN CORRIDORS SHALL BE 15' FROM END OF CORRIDOR AND SPACED 30' THEREAFTER. SMOKE DETECTORS IN SLEEPING ROOMS SHALL BE POWERED BY ELECTRICAL SYSTEM AND HAVE A 1½ HR. EMERGENCY POWER SOURCE. FIRE ALARM SHOP DRAWINGS, CANDELA RATINGS, AND DEVICE CUT SHEETS SHALL BE SUBMITTED TO THE ARCHITECTS OFFICE FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.



LEGEND

- A — 2 X 4 FLUORESCENT FIXTURE IN GRID BY LITHONIA WITH A-19 ACRYLIC LENS
- B — 2 X 4 FLUORESCENT SURFACE MOUNTED FIXTURE BY LITHONIA WITH A-19 ACRYLIC LENS
- C — 2 X 2 GRID MOUNTED FIXTURE
- D — 2 X 2 SURFACE MOUNTED FIXTURE
- E — 4 FT. LONG STRIP FLUORESCENT
- F — RECESSED CAN LIGHT WITH FRESNEL LENS
- G — WALL MOUNTED EXTERIOR GRADE FIXTURE
- H — RECESSED COMPACT FLUORESCENT LIGHT WITH BAFFLE
- I — SURFACE MOUNTED METAL HALIDE FIXTURE
- EXIT SIGN
- K — CEILING MOUNTED GLASS GLOBE CLOSET LIGHT WITH COMPACT FLUORESCENT
- F — STROBE
- F — PULL STATION
- F — HORN AND STROBE
- S — SMOKE DETECTOR
- F — FIXTURE TEMPERATURE HEAT DETECTOR
- R — RATE OF RISE / FIXED TEMP. HEAT DETECTOR
- EF-1 — EXHAUST FAN
- F.A.P. — FIRE ALARM PANEL
- COMMERCIAL PULLDOWN LADDER - PROVIDE 1-HOUR RATED FIRE RATING ON PULL DOWN LADDER WITH CLOSING DEVICE AND LATCH.
- L — VISA LIGHTING #CP-3880 STEM MOUNTED DISH FIXTURE - BRUSHED CHROME FINISH.
- EMERGENCY LIGHTS WITH BATTERY BACK-UP
- EXIT SIGN WITH LIGHTS WITH BATTERY BACK-UP
- DIFFUSER
- RETURN AIR GRILLE
- SP — SPEAKER IN CEILING

1 / A-6.1 — FIRST FLOOR RCP
SCALE: 1/4" = 1'-0"

ISSUED FOR CONSTRUCTION. DATE: 1 / 12 / 09

REVISIONS

Number	Date:	Remarks:	Number	Date:	Remarks:
1	09-01-09	STAIR RELOCATION			

CONSULTANTS

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SEAL — STATE OF GEORGIA — BENJAMIN MERCER CARTER — REGISTERED ARCHITECT

CITY OF OXFORD GEORGIA
New City Hall

SHEET TITLE: FIRST FLOOR REFLECTED CEILING PLAN

PRINTED:

NUMBER: A-6.1

Contractor Affidavit under O.C.G.A. § 13-10-91(b)(1)

By executing this affidavit, the undersigned contractor verifies its compliance with O.C.G.A. § 13-10-91, stating affirmatively that the individual, firm or corporation which is engaged in the physical performance of services on behalf of the City of Oxford has registered with, is authorized to use and uses the federal work authorization program commonly known as E-Verify, or any subsequent replacement program, in accordance with the applicable provisions and deadlines established in O.C.G.A. § 13-10-91. Furthermore, the undersigned contractor will continue to use the federal work authorization program throughout the contract period and the undersigned contractor will contract for the physical performance of services in satisfaction of such contract only with subcontractors who present an affidavit to the contractor with the information required by O.C.G.A. § 13-10-91(b). Contractor hereby attests that its federal work authorization user identification number and date of authorization are as follows:

Federal Work Authorization User Identification Number

Date of Authorization

Name of Contractor

Name of Project
City Council Chambers A/V Upgrades

Name of Public Employer
City of Oxford, Georgia

I hereby declare under penalty of perjury that the foregoing is true and correct.

Executed on _____ in _____, _____.
DATE CITY STATE

_____
Signature of Authorized Officer or Agent

_____
Printed Name and Title of Authorized Officer or Agent

SUBSCRIBED AND SWORN BEFORE ME
ON THIS THE _____ DAY OF _____,202____.

_____
NOTARY PUBLIC

My Commission Expires:

_____