

ELECTRICAL WIRING REPLACEMENT

1/15/2015

City of Gallatin

1.0 Introduction

The City of Gallatin Police Department is accepting bids for the Replacement of all Electric Wiring at the Police Annex Building located 411 South Water, Gallatin, TN. Bids will be due on January 29th 2015 at 1:00 pm in a sealed envelope clearly marked: **Electric Wiring Replacement.**

2.0 Technical Requirements:

- Installation of all electrical components for rewiring building per drawings dated 12-22-14(attached)
- City is responsible for purchasing all materials required for completion of project.
- City is responsible for debris removal and disposal

3.0 Vendor Requirement

Vendor shall provide labor for installation.

Vendor must complete attached Price Sheet.

Vendor will need to make appointment to inspect location.

Must provide a copy State of Tennessee Electrical License.

Must be able to meet insurance requirements per attached contract.

Must provide a performance surety covering and including labor in the amount of one hundred percent (100%) of the contract price. The performance bond is to remain in place for a period of one year after project completion.

4.0 Evaluation of Proposals

The City of Gallatin will award the contract to lowest responsible and responsive bidder meeting specifications, quality, and performance standards pursuant to the Municipal Purchasing Act of 1983. Response will be based on the following factors;

- Completeness of response
- Cost
- Vendor track record, including references
- Quality of service
- Quality of product

5.0 Contract Award

The City of Gallatin reserves the right to reject any or all proposals and to waive any informality found therein. The City of Gallatin will award a contract based on evaluations described above.

6.0 Proposal Submission

BID DUE DATE: January 29th 2015 @ 1:00p.m.

Proposals shall be directed to the attention of:

Finance Department

Attn: J.R.Smith, Jr

132 West Main Street

Gallatin, TN 37066

Telephone: 615-451-5899

Cell: 615-946-4897

7.0 Scheduling Appointment

Contact: Lyndon Satterfield

Cell: 615-533-8704

OR

Contact: J.R. Smith, Jr.

Cell: 615-946-4897

PRICE SHEET

TOTAL COST: \$ _____

Name of Company: _____

Address: _____

Telephone: _____

Signature: _____

Print Name: _____

Title: _____

Date: _____

Email: _____

CITY OF GALLATIN, TENNESSEE

CONTRACT FOR GENERAL CONSTRUCTION

Contract made this day of _____, 201__, between the City of Gallatin, Tennessee, ("City") and

City and Contractor agree:

1. **Contract Documents:** This Contract is made as a result of an Advertisement for Bid issued by City and attached to this Contract as an exhibit. Contractor was awarded the bid as the lowest responsible bidder. In the event of any inconsistencies in the terms of this Contract, the contract documents defined in the Advertisement for Bid and Contractor's bid, this Contract shall take precedence over the contract documents, which shall take precedence over the bid. This Contract and attached exhibits constitute the entire agreement between the parties. No waiver, consent, or modification or change of terms of this Contract shall bind either party unless in writing and signed by both parties. Such waiver, consent, modification or change, if made, shall be effective only in the specific instance and for the specific purpose given. There are no understandings, agreements, or representations, oral or written, not specified herein regarding this Contract. Contractor, by signature of its authorized representative, hereby acknowledges that he/she has read this Contract, understands it, and agrees to be bound by its terms and conditions.

2. **Scope:** Contractor shall begin and complete the project described in the contract documents within the time prescribed in the contract documents. Exceptions, alterations, or modifications to the contract documents, if any, shall be attached to this Contract as a separate exhibit.

3. **Price & Payment:** City shall pay Contractor amounts earned under the Contract. All payments will be made at the times and in the manner provided in the contract documents.

4. **Performance and Payment Bonds:** If required by the City, Contractor shall, within five (5) days after execution of the Contract and prior to doing any work under the Contract, furnish bonds to the City in a form and with a surety satisfactory to the City Attorney in the penal sum of the full amount of the Contract conditioned upon the faithful payment and performance of this Contract upon the part of the Contractor.

5. **Indemnification:** Contractor agrees to defend, indemnify and save City, its officers, employees and agents harmless from any and all losses, claims, actions, costs,

expenses, judgments, subrogations, or other damages resulting from injury to any person (including injury resulting in death,) or damage (including loss or destruction) to property, of whatsoever nature arising out of or incident to the performance of this Contract by Contractor (including but not limited to, Contractor's employees, agents, and others designated by Contractor to perform work or services attendant to this Contract.) Contractor shall not be held responsible for any losses, expenses, claims, subrogations, actions, costs, judgments, or other damages, directly, solely, and approximately caused by the negligence of City.

6. Insurance: Contractor shall, at its own expense, at all times during the term of this agreement, maintain in force:

6.1. General Liability. A comprehensive general liability policy including coverage for contractual liability for obligations assumed under this Contract, blanket contractual liability, products and completed operations, owner's and contractor's protective insurance and comprehensive automobile liability, including owned and non-owned automobiles. The liability under each policy shall be a minimum of \$1,000,000 per occurrence (combined single limit for bodily injury and property damage claims) or \$1,000,000 per occurrence for bodily injury and \$100,000 per occurrence for property damage. Liability coverage shall be provided on an "occurrence" not "claims" basis.

6.2. Worker's Compensation. Worker's compensation insurance in compliance with T.C.A. § 50-6-101 *et seq.*, which requires subject employers to provide Tennessee workers' compensation coverage for all their subject workers.

6.3. Automobile Liability. Automobile liability insurance with a combined single limit, or the equivalent, of not less than \$1,000,000 for each accident for Bodily Injury and Property Damage, including coverage for owned, hired or non-owned vehicles, as applicable. The City, its officers, employees and agents shall be named as additional insureds on each required insurance policy. Contractor shall submit certificates of insurance acceptable to the City with the signed Contract prior to the commencement of any work under this agreement. These certificates shall contain a provision that coverage afforded under the policies cannot be canceled and restrictive modifications cannot be made until at least 30 days prior written notice has been given to City. Insuring companies or entities are subject to the City's acceptance. If requested, complete copies of insurance policies, trust agreements, etc. shall be provided to the City. The Contractor shall be financially responsible for all pertinent deductibles, self-insured retentions and/or self-insurance.

7. Compliance with Law: Contractor shall promptly observe and comply with all present and future laws, orders, regulations, rules and ordinances of federal, state, and city governments with respect to the services.

8. Default: A default shall occur under any of the following circumstances:

8.1. If the Contractor fails to begin the work under Contract within the time specified, or fails to perform the work with sufficient workers or equipment or with sufficient materials to insure the prompt completion of the project, or shall neglect or refuse to remove materials or perform anew such work as shall be rejected as defective or unsuitable, or shall discontinue the prosecution of the work.

8.2. If the Contractor shall become insolvent or declared bankrupt, or commit any act of bankruptcy or insolvency, or allow any final judgment to stand against the Contractor unsatisfied for a period of forty-eight (48) hours, or shall make an assignment for the benefit of creditors.

8.3. From any other cause whatsoever, shall not carry on the work in an acceptable manner.

8.4. Contractor commits any material breach or default of any covenant, warranty, certification, or obligation it owes under the Contract.

8.5. Contractor loses any license, certificate or certification that is required to perform work or service attendant to this Contract.

8.6. Contractor attempts to assign rights in, or delegate duties under the Contract.

9. Remedies: In addition to the rights and remedies to which the City may be entitled by law for the enforcement of its rights under this Contract, City shall have full power and authority, without violating this Contract, to take prosecution of the work from the Contractor, and appropriate or use any or all of the materials and equipment on the ground that may be suitable and acceptable and may cause a contract for the completion of this Contract according to its terms and provisions, or use such methods as required for the completion of the Contract, in any acceptable manner. All costs and charges incurred by the City together with the costs of completing the work under the Contract, shall be deducted from any money due or which shall become due the Contractor. In case the expense so incurred by the City shall be less than the sum which would have been payable under the Contract if it had been completed by the Contractor, then the Contractor shall be entitled to received the difference less any damages for delay to which the City may be entitled. In case such expense shall exceed the sum which would have been payable under the Contract, the Contractor and the surety shall be liable and agree to and shall pay the City the amount of the excess with damages for delay of performance, if any.

10. Termination:

10.1. Mutual consent. This Contract may be terminated at any time by mutual

consent of both parties.

10.2. City's Convenience. This Contract may be terminated at any time by City upon 30 days notice in writing and delivered by certified mail or in person.

10.3. For Cause. City may terminate or modify this Contract, in whole or in part, effective upon delivery of written notice to Contractor, or at such later date as may be established by City under any of the following conditions:

a. If City funding from federal, state, county, or other sources is not obtained and continued at levels sufficient to allow for the purchase of the indicated quantity of services;

b. If federal or state regulations or guidelines are modified, changed or interpreted in such a way that the services are no longer allowable or appropriate for purchase under this Contract or are no longer eligible for the funding proposed for payments authorized by this Contract; or

c. If any license or certificate required by law or regulation to be held by Contractor to provide the services required by this Contract for any reason denied, revoked, suspended, or not renewed.

10.4. For Default or Breach.

a. Either City or Contractor may terminate this Contract in the event of a breach of the Contract by the other. Prior to such termination, the party seeking termination shall give to the other party written notice of the breach and intent to terminate. If the party committing the breach has not entirely cured the breach within 15 days of the date of the notice, or within such other period as the party giving notice may authorize or require, then the Contract may be terminated at any time thereafter by a written notice of termination by the party giving notice.

b. Time is of the essence for Contractor's performance of each and every obligation and duty under this Contract. City by written notice to Contractor of default or breach, may at any time terminate the whole or any part of this Contract if Contractor fails to provide services called for by this Contract within the time specified herein or in any extension thereof.

c. The rights and remedies of City provided in this subsection (10.4) are not exclusive and are in addition to any other rights and remedies provided by law or under this Contract.

10.5. Obligation/Liability of Parties: Termination or modification of this Contract, pursuant to subsections 10.1, 10.2, 10.3 and 10.4 above, shall be without prejudice

to any obligations or liabilities or either party already accrued prior to such termination or modification. However, upon receiving a notice of termination (regardless whether such notice is given pursuant to subsections 10.1, 10.2, 10.3 and 10.4 of this section) Contractor shall immediately cease all activities under this Contract, unless expressly directed otherwise by City in notice of termination. Further, upon termination, Contractor shall deliver to City all contract documents, information, works-in-progress and other property that are or would be deliverable had the Contract been completed. City shall pay Contractor for work performed prior to the termination date if such work was performed in accordance with the Contract.

11. Funds Available and Authorized: City has sufficient funds currently available and authorized for expenditure to finance the costs of this Contract within the City's fiscal year budget. Contractor understands and agrees that City's payment of amounts under this Contract attributable to work performed after the last day of the current fiscal year is contingent on City appropriations, or other expenditure authority sufficient to allow City in the exercise of its reasonable administrative discretion, to continue to make payments under this Contract. In the event City has insufficient appropriations, limitations or other expenditure authority, City may terminate this Contract without penalty or liability to City, effective upon the delivery of written notice to Contractor, with no further liability to Contractor.

12. Assignment and Subcontracts: Contractor shall not assign this Contract without the written consent of City. Any attempted assignment without written consent of City shall be void. Contractor shall be fully responsible for the acts or omissions of any assigns or subcontractors and of all persons employed by them, and the approval by City of any assignment or subcontract shall not create any contractual relation between the assignee or subcontractor and City.

13. Governing Law; Jurisdiction; Venue: This Contract shall be governed and construed in accordance with the laws of the State of Tennessee without resort to any jurisdiction's conflict of laws, rules or doctrines. Any claim, action, suit or proceeding (collectively, "the claim") between the City and the Contractor that arises from or relates to this Contract shall be brought and conducted solely and exclusively within the Chancery or Circuit Courts of Sumner County for the State of Tennessee. If, however, the claim must be brought in a federal forum, then it shall be brought and conducted solely and exclusively within the United States District Court for the District of Middle Tennessee filed in Davidson County, Tennessee. Contractor, by the signature herein of its authorized representative, hereby consents to the *in personam* jurisdiction of said courts. In no event shall this section be construed as a waiver by City of any form of defense or immunity, based on the Eleventh Amendment to the United States Constitution, or otherwise, from any claim or from the jurisdiction.

14. MERGER CLAUSE: THIS CONTRACT AND ATTACHED EXHIBITS CONSTITUTE THE ENTIRE AGREEMENT BETWEEN THE PARTIES. NO WAIVER, CONSENT, MODIFICATION OR CHANGE OF TERMS OF THIS CONTRACT SHALL BIND EITHER PARTY UNLESS IN WRITING AND SIGNED BY BOTH PARTIES. SUCH WAIVER, CONSENT, MODIFICATION OR CHANGE, IF MADE, SHALL BE EFFECTIVE ONLY IN THE SPECIFIC INSTANCE AND FOR THE SPECIFIC PURPOSE GIVEN. THERE ARE NO UNDERSTANDINGS, AGREEMENTS, OR REPRESENTATIONS, ORAL OR WRITTEN, NOT SPECIFIED HEREIN REGARDING THIS CONTRACT. CONTRACTOR, BY SIGNATURE OF ITS AUTHORIZED REPRESENTATIVE, HEREBY ACKNOWLEDGES THAT HE/SHE HAS READ THIS CONTRACT, UNDERSTANDS IT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS.15. Prior Approval Required: Approval of the City of Gallatin Council or Mayor is required before any work may begin under this Contract.

CITY OF GALLATIN, TENNESSEE

CONTRACTOR

BY: _____
Paige Brown, Mayor

BY: _____

ATTEST:

Connie Kittrell, City Recorder

This contract was prepared by and is approved as to form by:
Susan High-McAuley
City Attorney
Room 212
132 West Main Street
Gallatin, TN 37066

GENERAL ELECTRICAL BID NOTES

1. THE OWNER WILL SUPPLY ALL MATERIALS. CONTRACTOR SHALL INSTALL MATERIALS PROVIDED BY OWNER.
2. THE BASE BID SHALL INCLUDE PROVISIONS FOR A WIRING BELOW THE CEILING TO BE EXPOSED (CONDUITS AND WALL BOXES).
3. PROVIDE AN ALTERNATE BID TO CONCEAL WIRING BELOW THE CEILING IN THE WALLS.

NOTE: THE DIMENSIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. ORIGINAL DRAWING DATED 1945 WERE USED FOR BUILDING AND ROOM SIZES. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS.

GENERAL ELECTRICAL NOTES

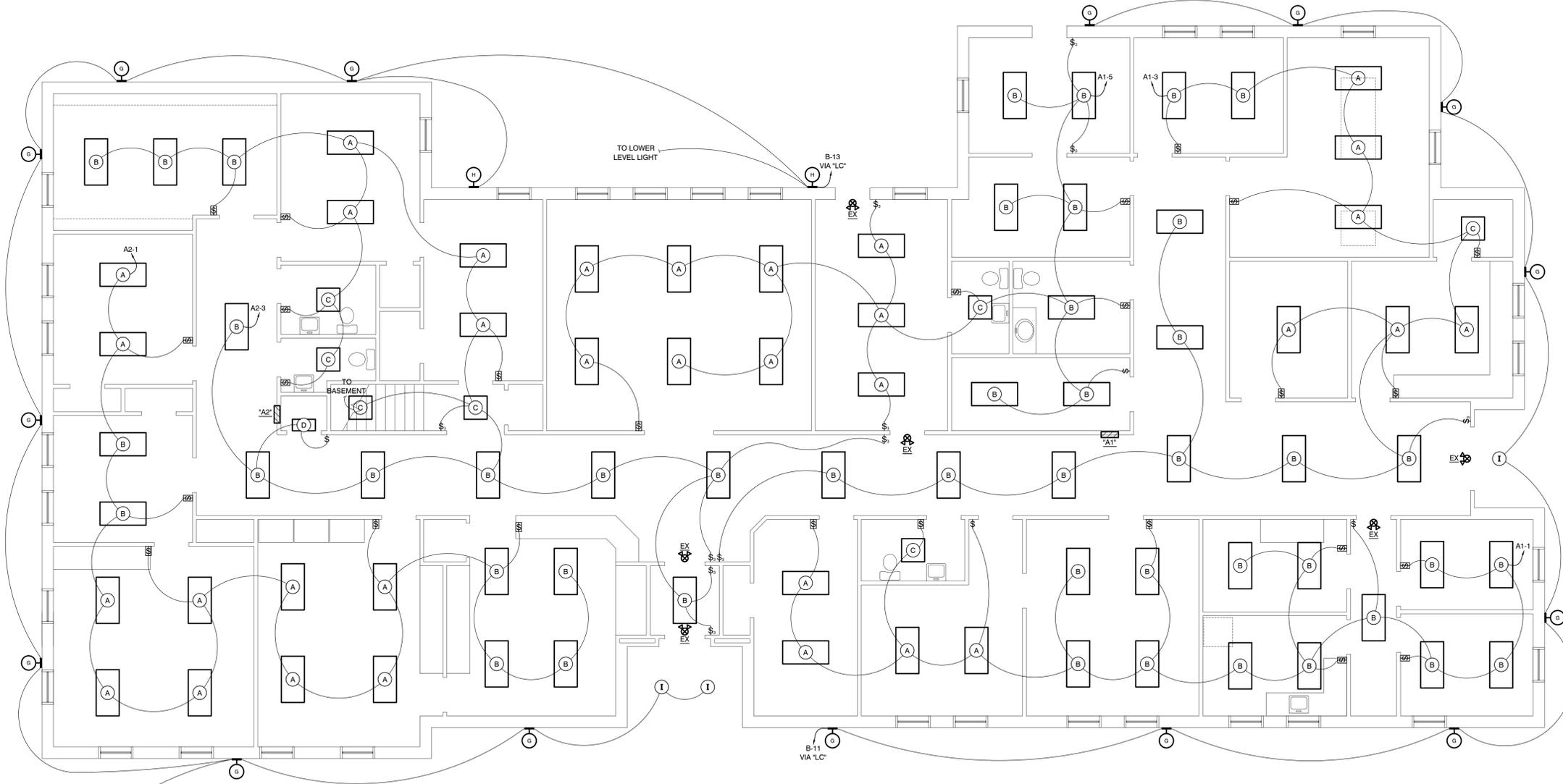
1. DEMO EXISTING ELECTRICAL WORK TO ACCOMMODATE NEW CONSTRUCTION. ALL POWER & LIGHTING CIRCUITS ARE #12 CONDUCTORS IN 1/2" CONDUIT OR MC CABLE, UNLESS OTHERWISE NOTED. WIRING SHALL BE CONCEALED IN FINISHED AREAS. INSTALL A GREEN GROUNDING CONDUCTOR IN EACH CONDUIT.
2. MAINTAIN MINIMUM 3'-0" CLEARANCE IN FRONT OF PANELS FROM FLOOR TO CEILING. PIPING, DUCTWORK, ETC. IS PROHIBITED IN THIS AREA.
3. VERIFY THE LOCATION OF RECEPTACLES, LIGHTING FIXTURES AND SWITCHING ARRANGEMENT WITH THE OWNER PRIOR TO ROUGH-IN.
4. ALL MECHANICAL EQUIPMENT MUST BE CAPABLE OF BEING DISCONNECTED FROM ITS POWER SOURCE.
5. COORDINATE ELECTRICAL WORK IN MECHANICAL ROOMS WITH MECHANICAL CONTRACTOR.
6. CIRCUITS TO EMERGENCY LIGHTS ARE NOT SHOWN. CONNECT TO UNSWITCHED LEG OF LIGHTING CIRCUIT.
7. THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ONLY INDICATE A GENERAL ARRANGEMENT OF THE EQUIPMENT AND WIRING. DO NOT SCALE FROM THE DRAWINGS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO PROPERLY FIELD LOCATE ALL COMPONENTS OF THE ELECTRICAL WORK BASED ON CODE REQUIREMENTS, MANUFACTURERS INSTALLATION INSTRUCTIONS, AND COORDINATION WITH SITE CONDITIONS AND OTHER TRADES.
8. THE CONTRACTOR SHALL IMMEDIATELY ADVISE THE ENGINEER OF ANY DESIGN DEFICIENCIES, OMISSIONS, ERRORS, OR CODE CONFLICTS, PRIOR TO SUBMITTING BID. CORRECTIONS REQUIRED POST BID SHALL BE AT CONTRACTORS EXPENSE.

ELECTRICAL LEGEND

	DUPLEX RECEPTACLE, 20A, IVORY, 16" AFF C - COUNTERTOP, E - RED COVER
	GFCI, 16" AFF, PROVIDE WP COVER OUTSIDE
	SWITCH, 20A, SINGLE, IVORY, 48" AFF 3 - 3 WAY
	WALL MOUNTED OCCUPANCY SENSOR, IVORY, 48" AFF
	CEILING MOUNTED OCCUPANCY SENSOR, IVORY.
	COMMUNICATION OUTLET, WALL BOX WITH 3/4" CONDUIT TO ABOVE CEILING, PROVIDE 2, CAT6 CABLES TO NET SWITCH ROOM, 16" AFF
	WIRELESS ACCESS POINT, PROVIDE JUNCTION BOX ABOVE CEILING AND CAT6 CABLE TO NET SWITCH ROOM
	CAT 6 TO AV ROOM COORDINATE WITH OWNER
	CATV JACK, PROVIDE CATV CABLE TO NET SWITCH ROOM
	CAMERA ROUGH-IN WITH CABLE TO NET SWITCH ROOM 1 - CABLE TO AV ROOM
	DISCONNECT SWITCH, 48" AFF, NEMA 3R WHEN LOCATED OUTSIDE
	JUNCTION BOX
	2" C WALL SLEEVE UNLESS OTHERWISE NOTED
	PANEL
	EXHAUST FAN

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMPS	MANUFACTURER	DETAILS
A	2'X4' FLUORESCENT TROFFER, 3 LAMP ELECTRONIC INSTANT START BALLAST, 125" LENSE, 120V	3-F32T8	LITHONIA 2GT8 3 32 A12125 MVOLT GEB10IS	PROVIDE GRID CLIPS
B	2'X4' FLUORESCENT TROFFER, 2 LAMP ELECTRONIC INSTANT START BALLAST, 125" LENSE, 120V	2-F32T8	LITHONIA 2GT8 2 32 A12125 MVOLT GEB10IS	PROVIDE GRID CLIPS
C	2'X2' FLUORESCENT TROFFER, 2 LAMP ELECTRONIC INSTANT START BALLAST, 125" LENSE, 120V	2-F17T8	LITHONIA 2GT8 2 17 A12125 MVOLT GEB10IS	PROVIDE GRID CLIPS
D	2' FLUORESCENT STRIP, 1 LAMP, ELECTRONIC INSTANT START BALLAST, 120V	1-F17T8	LITHONIA Z 217 MVOLT GEB10IS	
EM	EMERGENCY LIGHT WITH TWO SEALED HEADS, BATTERY BACKUP, 120V	INCL.	LITHONIA EU2 M6	
EX	EXIT LIGHT WITH DUAL EMERGENCY HEADS, BATTERY BACKUP, 120V	INCL.	LITHONIA ECR EL M6	
F	4' FLUORESCENT STRIP, 2 LAMP, ELECTRONIC INSTANT START BALLAST, 120V	2-F32T8	LITHONIA Z 232 MVOLT GEB10IS	
G	METAL HALIDE WALL PACK, WET LOCATION RATED, CUTOFF OPTICS, MAGNETIC BALLAST, 120V	1-70W MH	LITHONIA TWAC 70M MVOLT	MOUNT 7'-6" A.F.F.
H	COMPACT FLUORESCENT WALL PACK, WET LOCATION RATED, 120V	1-32W TRT	LITHONIA TWS 32TRT MVOLT	
I	COMPACT FLUORESCENT DOWNLIGHT, DIFFUSE REFLECTOR, 120V	2-26W	LITHONIA LFBN 2/26DTT MVOLT	RECESS IN CANOPY
K	2'X4' SURFACE MOUNT, 3 LAMP, 0.125" LENS, ELECTRONIC INSTANT START BALLAST, 120V	3-F32T8	LITHONIA 2M 332 A12125 MVOLT GEB10IS	
L	METAL HALIDE FLOOD, DARK BRONZE FINISH, 120V	1-70W MH	LITHONIA ASF1 70M HSP 120	MOUNT ON CONCRETE PAD

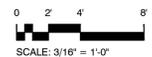


FIRST FLOOR ELECTRICAL LIGHTING PLAN

SCALE: 3/16" = 1'-0"

ATTIC ELECTRICAL LIGHTING PLAN

SCALE: 3/16" = 1'-0"

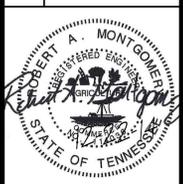


REVISIONS	DATE
1.	12-22-14
2.	
3.	
4.	
5.	



Job No. 14119

First Floor and Attic Electrical Power Plan and Schedules
Gallatin Police Department Annex
 411 South Water Ave.
 Gallatin, TN 37066



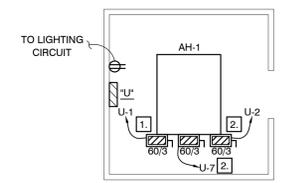
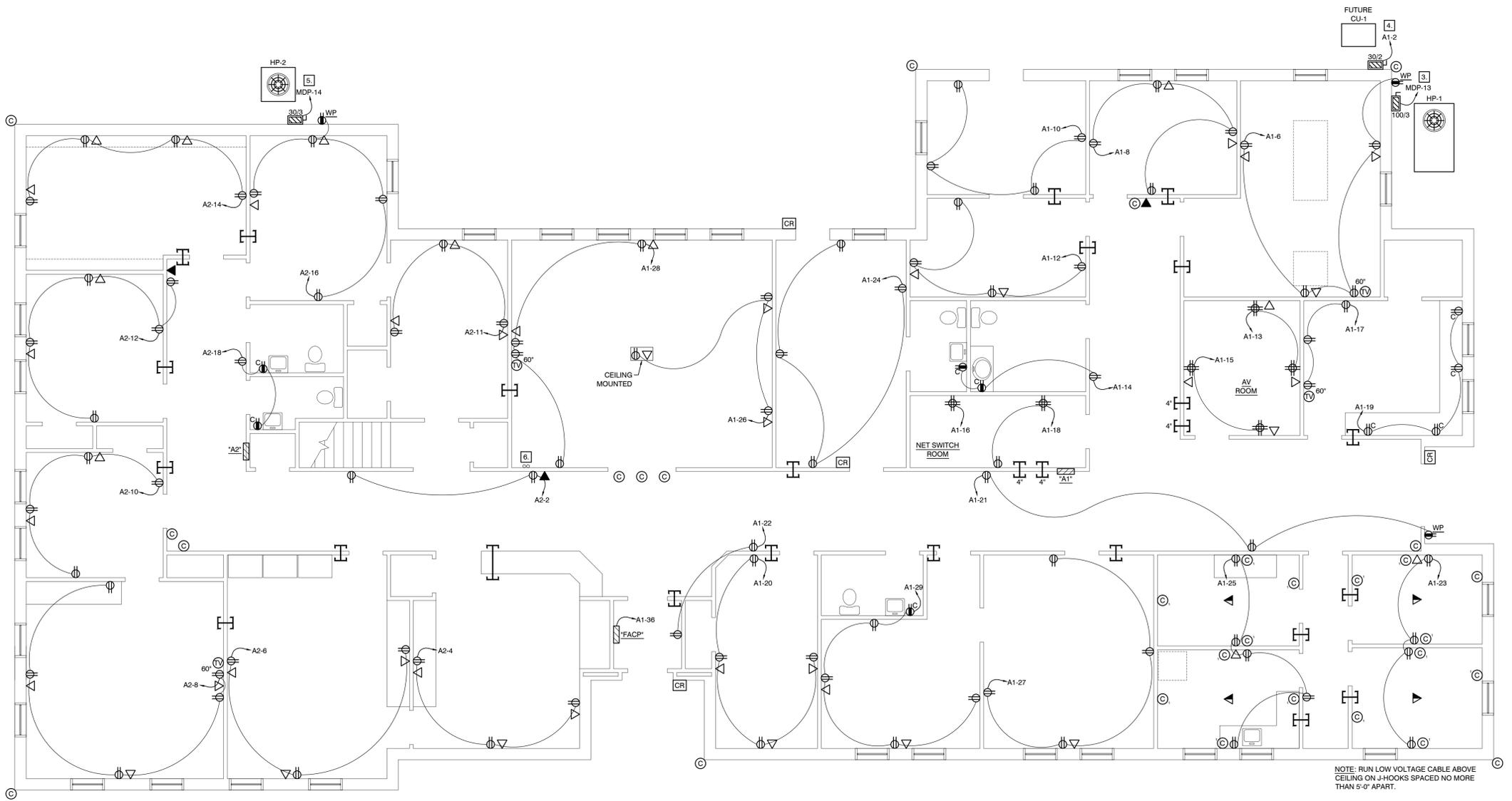
NO.	REVISIONS	DATE
1.		
2.		
3.		
4.		
5.		

DATE: 12-22-14

ELECTRICAL POWER PLAN NOTES

- 1 AH-1: (50A, 208V/3) 4 #8, 1 #10G, 3/4"C. VERIFY.
- 2 AH-1 BACKUP HEAT: (40A, 208V/3) 2 #8, 1 #10G, 3/4"C. VERIFY.
- 3 HP-1: (60A, 208V/3) 4 #3, 1 #8G. REUSE EXISTING CONDUIT. EXTEND AS NEEDED.
- 4 CU-1: (20A, 208V/1) 2 #12, 1 #12G, 1/2"C. PROVIDE EMPTY 1/2" CONDUIT TO SERVER ROOM, CAPPED AND LABELED.
- 5 HP-2: (30A, 208V/1) 3 #10, 1 #10G, 1/2"C. REUSE EXISTING CONDUIT. EXTEND AS NEEDED.
- 6 2, 3" CONDUIT SLEEVES FOR LOW VOLTAGE WIRING.

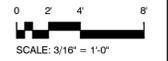
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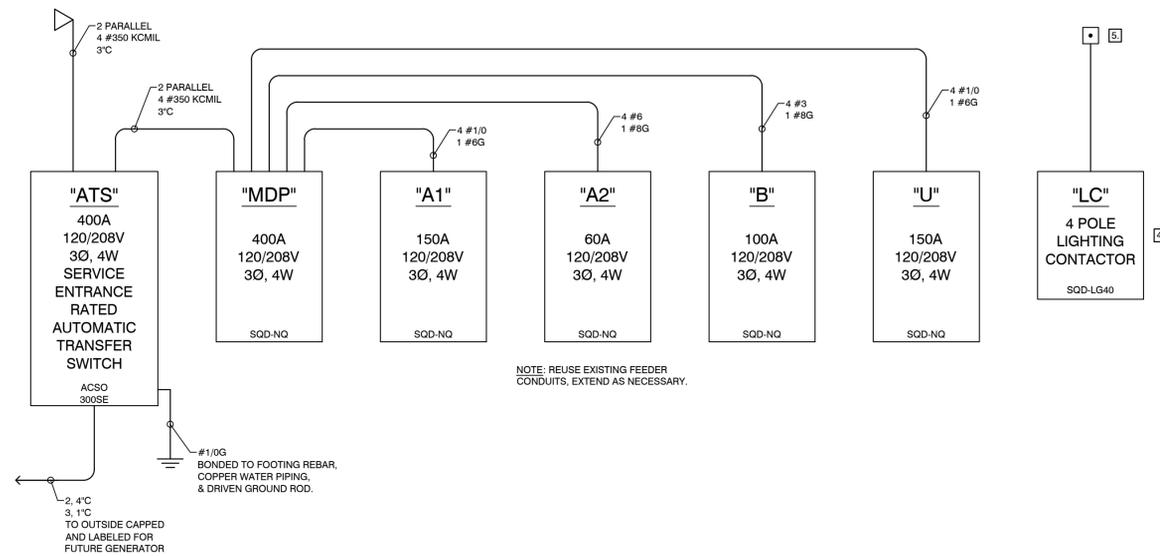
ATTIC ELECTRICAL POWER PLAN
 SCALE: 3/16" = 1'-0"

FIRST FLOOR ELECTRICAL POWER PLAN
 SCALE: 3/16" = 1'-0"

NOTE: RUN LOW VOLTAGE CABLE ABOVE CEILING ON J-HOOKS SPACED NO MORE THAN 5'-0" APART.

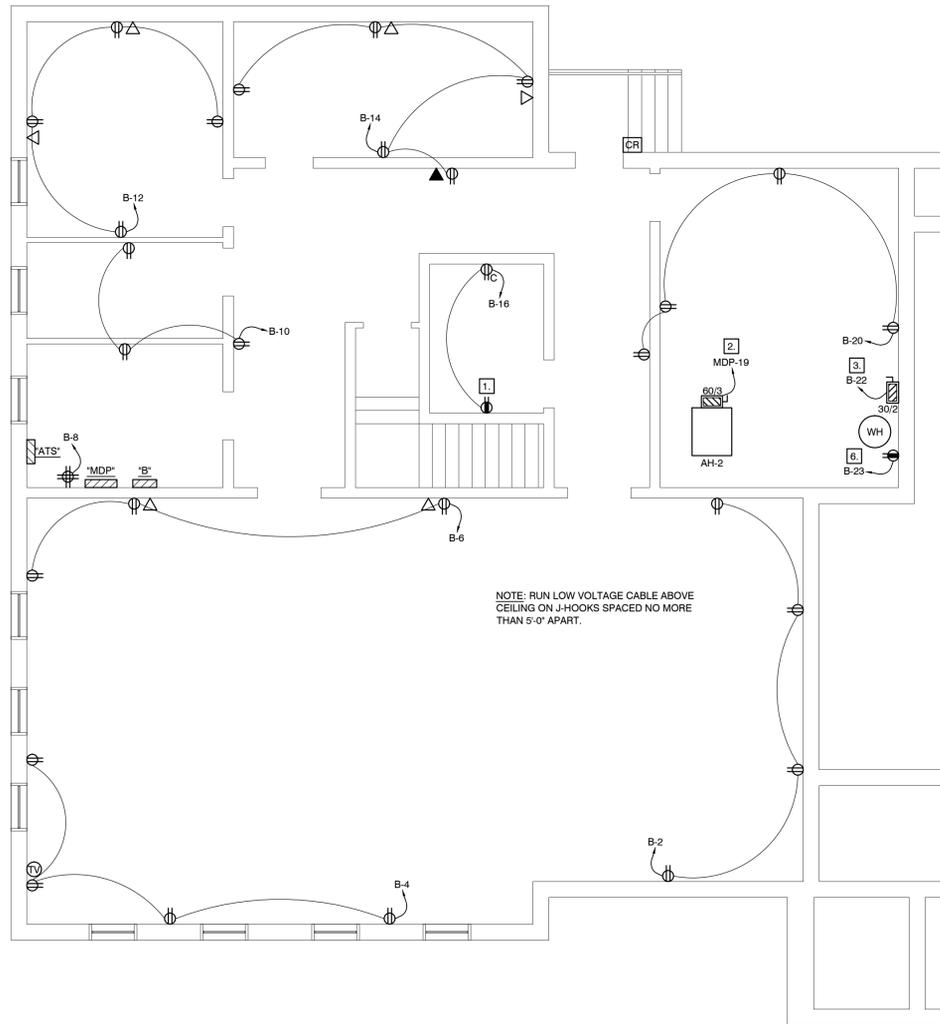


SCALE: 3/16" = 1'-0"



ELECTRICAL RISER DIAGRAM

NTS



BASEMENT ELECTRICAL POWER PLAN

SCALE: 3/16" = 1'-0"

400A 120/208V, 3Ø, 4W 42CKT		PANEL										ØA = 371.6A ØB = 381.2A ØC = 368.4A		
		MDP												
DRAW	LOAD	WIRE	BKR:	#	A	B	C	#	BKR:	WIRE	LOAD	DRAW		
62.5	PANEL "A1"	#1/0	150A	1	X			2	60A	#6	PANEL "A2"	26.7		
58.1	LIGHTS			3	X			4				27.8		
55.2	SPARE			5	X			6				21		
30.8	PANEL "B"	#3	100A	7	X			8	150A	#1/0	PANEL "U"	120.8		
45.7	LIGHTS			9	X			10				118.8		
39.6	HP-1	#6	80A	13	X			14	30A	#1/0	HP-2	21.1		
64.7	RECEPTACLES			15	X			16				21.1		
64.7	SPARE			17	X			18				21.1		
45	AH-2	#6	60A	19	X			20	60A		SPARE			
45	SPACE ONLY			21	X			22						
45	SPACE ONLY			23	X			24						
45	SPACE ONLY			25	X			26						
45	SPACE ONLY			27	X			28						
45	SPACE ONLY			29	X			30						
45	SPACE ONLY			31	X			32						
45	SPACE ONLY			33	X			34						
45	SPACE ONLY			35	X			36						
45	SPACE ONLY			37	X			38						
45	SPACE ONLY			39	X			40						
45	SPACE ONLY			41	X			42						

NOTES:
1. NON SE RATED.
2. MAIN LUGS ONLY.
3. SURFACE MOUNT.

TOTAL KVA: 134.54

60A 120/208V, 3Ø, 4W 42CKT		PANEL										ØA = 26.7A ØB = 27.8A ØC = 21.0A		
		A2												
DRAW	LOAD	WIRE	BKR:	#	A	B	C	#	BKR:	WIRE	LOAD	DRAW		
10.2	LIGHTS	#12	20A	1	X			2	20A	#12	RECEPTACLES	3		
9.8	LIGHTS	#12	20A	3	X			4		#12	RECEPTACLES	4.5		
--	SPARE	--	--	5	X			6	20A	#12	RECEPTACLES	4.5		
--	SPARE	--	--	7	X			8	20A	#12	RECEPTACLES	7.5		
--	SPARE	--	--	9	X			10	20A	#12	RECEPTACLES	6		
4.5	RECEPTACLES	#12	20A	11	X			12	20A	#12	RECEPTACLES	7.5		
--	SPARE	--	--	13	X			14	20A	#12	RECEPTACLES	6		
--	SPARE	--	--	15	X			16	20A	#12	RECEPTACLES	7.5		
--	SPARE	--	--	17	X			18	20A	#12	RECEPTACLES	4.5		
--	SPACE ONLY	--	--	19	X			20						
--	SPACE ONLY	--	--	21	X			22						
--	SPACE ONLY	--	--	23	X			24						
--	SPACE ONLY	--	--	25	X			26						
--	SPACE ONLY	--	--	27	X			28						
--	SPACE ONLY	--	--	29	X			30						

NOTES:
1. NON SE RATED.
2. MAIN LUGS ONLY.
3. FLUSH MOUNT.

TOTAL KVA: 9.06

150A 120/208V, 3Ø, 4W 42CKT		PANEL										ØA = 62.5A ØB = 58.1A ØC = 57.2A		
		A1												
DRAW	LOAD	WIRE	BKR:	#	A	B	C	#	BKR:	WIRE	LOAD	DRAW		
9.5	LIGHTS	#12	20A	1	X			2	20A	#12	CU-1	14		
9.6	LIGHTS	#12	20A	3	X			4				14		
10.2	LIGHTS	#12	20A	5	X			6	20A	#12	RECEPTACLES	9.5		
--	SPARE	--	--	7	X			8	20A	#12	RECEPTACLES	6		
--	SPARE	--	--	9	X			10	20A	#12	RECEPTACLES	6		
--	SPARE	--	--	11	X			12	20A	#12	RECEPTACLES	6		
6	RECEPTACLES	#12	20A	13	X			14	20A	#12	RECEPTACLES	4.5		
6	RECEPTACLES	#12	20A	15	X			16	20A	#12	RECEPTACLES	3		
4.5	RECEPTACLES	#12	20A	17	X			18	20A	#12	RECEPTACLES	4.5		
6	RECEPTACLES	#12	20A	19	X			20	20A	#12	RECEPTACLES	6		
6	RECEPTACLES	#12	20A	21	X			22	20A	#12	RECEPTACLES	3		
6	RECEPTACLES	#12	20A	23	X			24	20A	#12	RECEPTACLES	4.5		
6	RECEPTACLES	#12	20A	25	X			26	20A	#12	RECEPTACLES	6		
7.5	RECEPTACLES	#12	20A	27	X			28	20A	#12	RECEPTACLES	6		
--	SPACE ONLY	--	--	29	X			30						
--	SPACE ONLY	--	--	31	X			32	20A		SPARE			
--	SPACE ONLY	--	--	33	X			34	20A		SPARE			
--	SPACE ONLY	--	--	35	X			36	20A	#12	FACP	3		
--	SPACE ONLY	--	--	37	X			38			SPACE ONLY			
--	SPACE ONLY	--	--	39	X			40			SPACE ONLY			
--	SPACE ONLY	--	--	41	X			42			SPACE ONLY			

NOTES:
1. NON SE RATED.
2. MAIN LUGS ONLY.
3. FLUSH MOUNT.

TOTAL KVA: 21.33

100A 120/208V, 3Ø, 4W 42CKT		PANEL										ØA = 30.8A ØB = 45.7A ØC = 42.6A		
		B												
DRAW	LOAD	WIRE	BKR:	#	A	B	C	#	BKR:	WIRE	LOAD	DRAW		
8.8	LIGHTS	#12	20A	1	X			2	20A	#12	RECEPTACLES	6		
11.2	LIGHTS	#12	20A	3	X			4	20A	#12	RECEPTACLES	6		
--	SPARE	--	--	5	X			6	20A	#12	RECEPTACLES	4.5		
--	SPARE	--	--	7	X			8	20A	#12	RECEPTACLES	4.5		
--	SPARE	--	--	9	X			10	20A	#12	RECEPTACLES	6		
5.1	EXT. LIGHTS	#12	20A	11	X			12	20A	#12	RECEPTACLES	6		
5.5	EXT. LIGHTS	#12	20A	13	X			14	20A	#12	RECEPTACLES	7.5		
--	SPARE	--	--	15	X			16	20A	#12	RECEPTACLES	3		
--	SPARE	--	--	17	X			18	20A	#12	RECEPTACLES	6		
--	SPACE ONLY	--	--	19	X			20			SPARE			
--	SPACE ONLY	--	--	21	X			22	30A	#10	WATER HEATER	18		
--	SPACE ONLY	--	--	23	X			24				18		
--	SPACE ONLY	--	--	25	X			26			SPACE ONLY			
--	SPACE ONLY	--	--	27	X			28			SPACE ONLY			
--	SPACE ONLY	--	--	29	X			30			SPACE ONLY			
--	SPACE ONLY	--	--	31	X			32			SPACE ONLY			
--	SPACE ONLY	--	--	33	X			34			SPACE ONLY			
--	SPACE ONLY	--	--	35	X			36			SPACE ONLY			
--	SPACE ONLY	--	--	37	X			38			SPACE ONLY			
--	SPACE ONLY	--	--	39	X			40			SPACE ONLY			
--	SPACE ONLY	--	--	41	X			42			SPACE ONLY			

NOTES:
1. NON SE RATED.
2. MAIN LUGS ONLY.
3. SURFACE MOUNT.

TOTAL KVA: 14.29

150A 120/208V, 3Ø, 4W 42CKT		PANEL										ØA = 120.8A ØB = 118.8A ØC = 118.8A		
		U												
DRAW	LOAD	WIRE	BKR:	#	A	B	C	#	BKR:	WIRE	LOAD	DRAW		
46.6	AH-1	#8	50A	1	X			2	40A	#8	BACK UP HEAT	36.1		
46.6	SPARE	--	--	3	X			4				36.1		
46.6	SPARE	--	--	5	X			6				26.1		
36.1	BACK UP HEAT	#6	40A	7	X			8	20A	#12	RECEPTACLES	2		
36.1	SPARE	--	--	9	X			10	20A		SPARE			
36.1	SPARE	--	--	11	X			12	20A		SPARE			
--	SPACE ONLY	--	--	13	X			14			SPACE ONLY			
--	SPACE ONLY	--	--	15	X			16			SPACE ONLY			
--	SPACE ONLY	--	--	17	X			18			SPACE ONLY			
--	SPACE ONLY	--	--	19	X			20			SPACE ONLY			
--	SPACE ONLY	--	--	21	X			22			SPACE ONLY			
--	SPACE ONLY	--	--	23	X			24			SPACE ONLY			
--	SPACE ONLY	--	--	25	X			26			SPACE ONLY			
--	SPACE ONLY	--	--	27	X			28			SPACE ONLY			
--	SPACE ONLY	--	--	29	X			30			SPACE ONLY			

NOTES:
1. NON SE RATED.
2. MAIN LUGS ONLY.
3. SURFACE MOUNT.

TOTAL KVA: 43.0

ELECTRICAL POWER PLAN NOTES

- RECEPTACLE FOR TOILET PUMP. COORDINATE WITH EXISTING CONDITIONS.
- AH-2: (60A, 208V/3) 3 #6, 1 #10G, 3/4°C. REUSE EXISTING CONDUIT. EXTEND AS NEEDED.
- WATER HEATER: (20A, 208V/1) 2 #10, 1 #10G, 1/2°C. REUSE EXISTING CONDUIT. EXTEND AS NEEDED.
- LIGHTING CONTACTOR, 4 POLE (B-11,13, 2 SPARE), ELECTRICALLY HELD. PROVIDE ON-OFF-AUTO SWITCH.
- PHOTOCELL FOR ON-AT-DUSK, OFF-AT-DAWN OPERATION. POINT AWAY FROM LIGHT SOURCES.
- HOT WATER RECIRCULATION PUMP: (20A, 120V) 2 #12, 1 #12G, 1/2°C.

NOTE: THE DIMENSIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. ORIGINAL DRAWING DATED 1945 WERE USED FOR BUILDING AND ROOM SIZES. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS.

MONTGOMERY ENGINEERING
Electrical and Mechanical Construction Engineers
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Job No. 14119

Basement Electrical Power Plan and Schedules
Gallatin Police Department Annex
411 South Water Ave.
Gallatin, TN 37066



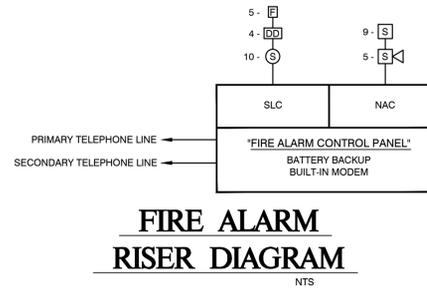
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SCALE: 3/16" = 1'-0"

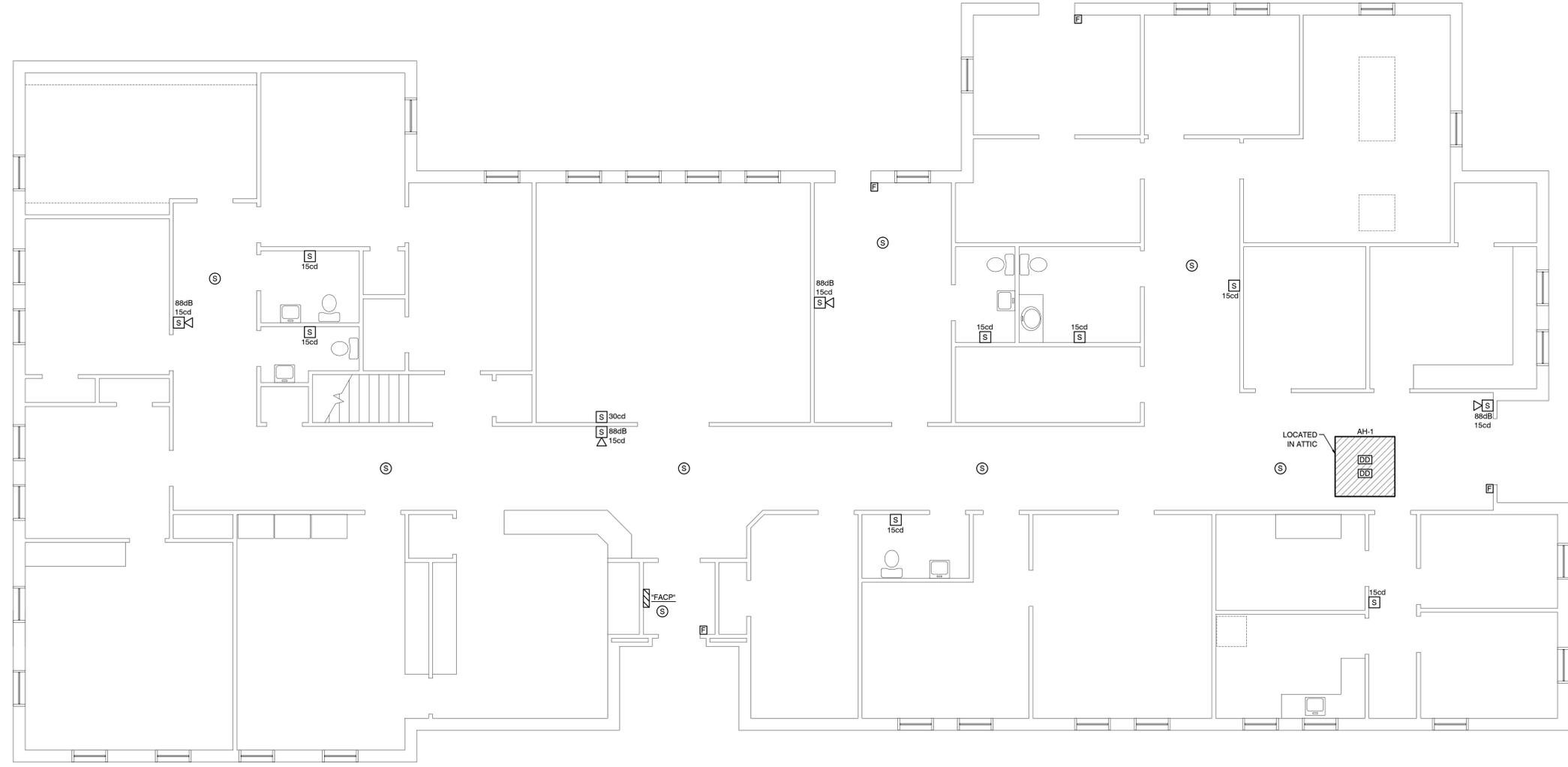


FIRE ALARM LEGEND	
"FACP"	FIRE ALARM CONTROL PANEL
[P]	MANUAL PULL STATION, 48" A.F.F.
[S]	WALL MOUNTED STROBE LIGHT, RATING IN CANDELAS SHOWN, 80" A.F.F.
[S]	WALL MOUNTED HORN/ STROBE, SPEAKER RATING IN DB AND STROBE RATING IN CANDELAS SHOWN, 80" A.F.F.
[S]	SMOKE DETECTOR
[DD]	DUCT SMOKE DETECTOR

NOTE: ALL REQUIRED DOCUMENTATION REGARDING THE DESIGN OF FIRE PROTECTION, ALARM, AND COMMUNICATIONS SYSTEMS AND THE PROCEDURES FOR MAINTENANCE, INSPECTION AND TESTING OF FIRE DETECTION, ALARM, AND COMMUNICATIONS SYSTEMS SHALL BE MAINTAINED AT AN APPROVED, SECURED LOCATION FOR THE LIFE OF THE SYSTEM.

NOTE: THE DIMENSIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. ORIGINAL DRAWING DATED 1945 WERE USED FOR BUILDING AND ROOM SIZES. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS.

- FIRE ALARM SYSTEM SPECIFICATIONS**
- THE FIRE ALARM CONTROLS MUST BE CERTIFIED IN ACCORDANCE WITH THE TENNESSEE ALARM CONTRACTORS LICENSING ACT.
 - THE FIRE ALARM SYSTEM SHALL BE A NFPA 72, CHAPTER 8 REMOTE STATION PROTECTED SIGNAL SYSTEM.
 - THE FIRE ALARM CONTROL PANEL SHALL BE AN ADDRESSABLE SYSTEM CAPABLE OF SUPPORTING 100 DEVICES ON ONE SLC AND EQUIPPED WITH A BUILT-IN COMMUNICATOR. THE PANEL SHALL PROVIDE 2 CLASS B STYLE Y NAC.
 - FIRE ALARM SYSTEM COMPONENTS SHALL BE UL LISTED, EQUAL TO THE FOLLOWING NOTIFIER BRAND PRODUCTS:
 FACP - NFW-50
 REMOTE POWER - FCPS2456
 WALL HORN/STROBE - P2R(H)
 WALL STROBE - SR(H)
 STROBE - PC4R(H)
 PULL STATION - BG12LX
 SMOKE DETECTOR - SD355
 DUCT SMOKE DETECTOR DNR
 - THE FIRE ALARM CONTROL PANEL SHALL BE PROVIDED WITH A DIGITAL ALARM COMMUNICATORS TRANSMITTER (DACT). THE OWNER WILL CONTRACT WITH A CENTRAL STATION MONITORING SERVICE. PROVIDE A 3/4" CONDUIT FROM FACP TO TTB FOR TWO TELEPHONE LINES (PRIMARY AND AUX.)
 - PROVIDE EMERGENCY BACK-UP BATTERY WITH SUFFICIENT CAPACITY TO PROVIDE STANDBY POWER FOR 24 HOURS, THEN ALARM FOR 5 MINUTES. SUBMIT BATTERY CALCULATIONS.
 - MULTIPLE STROBES THAT MAY BE VISIBLE FROM A GIVEN LOCATION SHALL BE SYNCHRONIZED.
 - PERMANENTLY IDENTIFY THE CIRCUIT BREAKER SERVING THE FIRE ALARM PANEL WITH RED MARKING. PROVIDE A LOCKING CLIP ON THE CIRCUIT BREAKER. PERMANENTLY IDENTIFY THE BREAKER LOCATION ON THE PANEL.
 - UPON ACTIVATION OF A DUCT DETECTOR, THE BLOWER SHALL SHUT DOWN AND AN ALARM SIGNAL SHALL BE SENT TO THE FACP. THIS CIRCUIT SHALL BE SUPERVISED.
 - DO NOT LOCATE SMOKE DETECTORS CLOSER THAN 3'-0" TO SUPPLY DIFFUSERS OR RETURN GRILLS, AND NOT CLOSER THAN 4" FROM A SIDEWALL.
 - CONCEALED WIRING SHALL BE OPEN RATED, TWISTED PAIR, SHIELDED. MINIMUM SLC WIRE SIZE SHALL BE 18 AWG (BELDEN 8574 OR EQUAL).
 - THE FIRE ALARM SYSTEM, COMPONENTS, AND INSTALLATION SHALL COMPLY WITH NFPA 72.



FIRST FLOOR FIRE ALARM PLAN
SCALE: 3/16" = 1'-0"

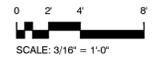
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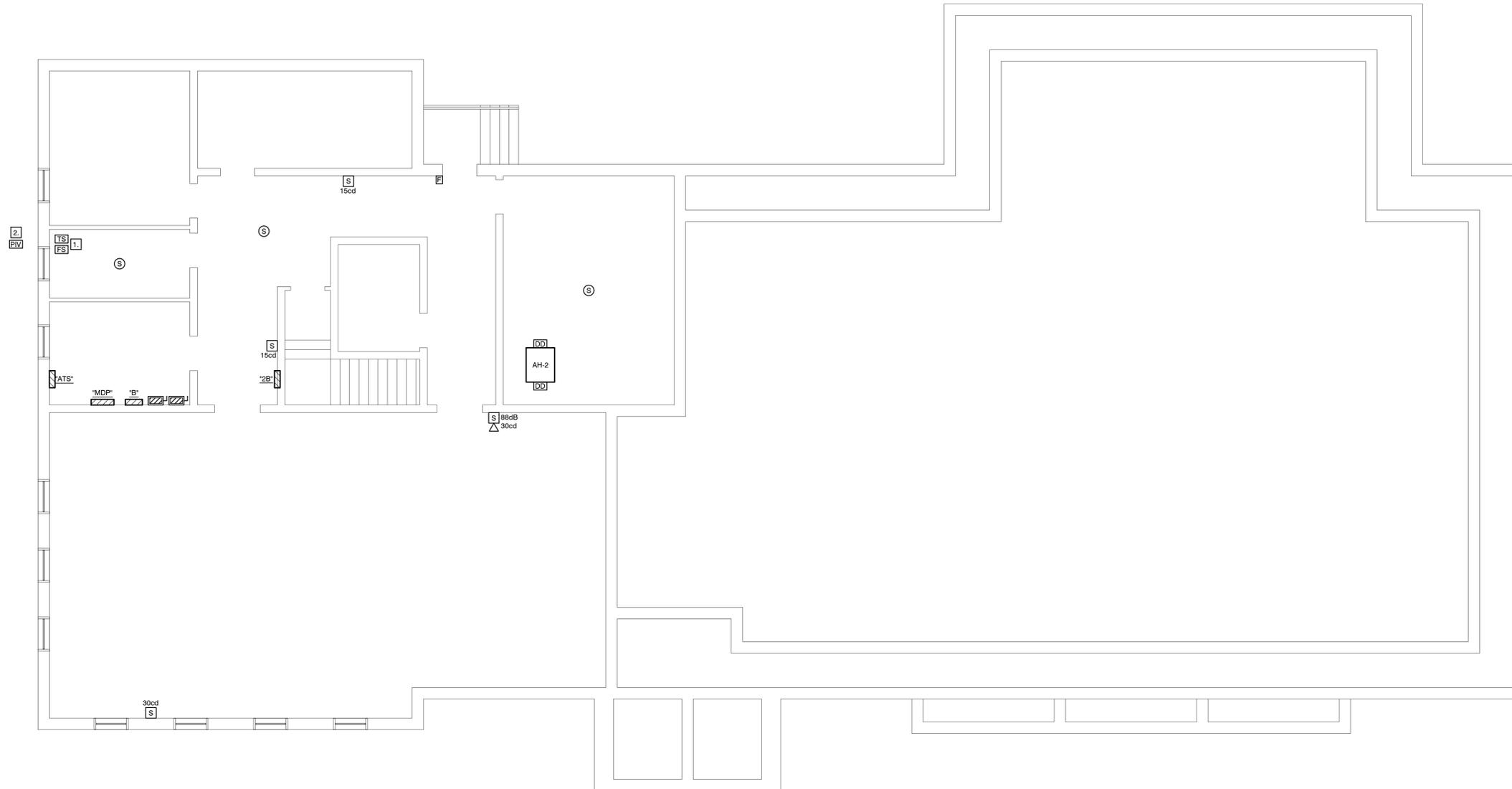
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FIRE ALARM PLAN NOTES

- 1] TS, FS, AND PIV SHOWN HERE FOR REFERENCE ONLY. REFER TO FIRE SPRINKLER DRAWINGS FOR EXACT LOCATION.
- 2] CONNECT 120V BELL.

NOTE: THE DIMENSIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. ORIGINAL DRAWING DATED 1945 WERE USED FOR BUILDING AND ROOM SIZES. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING CONDITIONS.



BASEMENT FIRE ALARM PLAN
SCALE: 3/16" = 1'-0"

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