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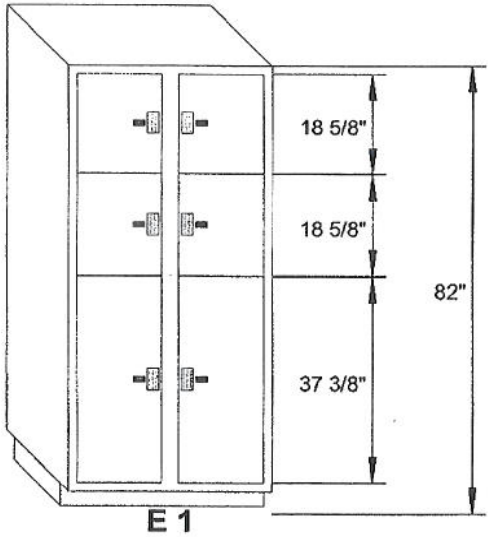

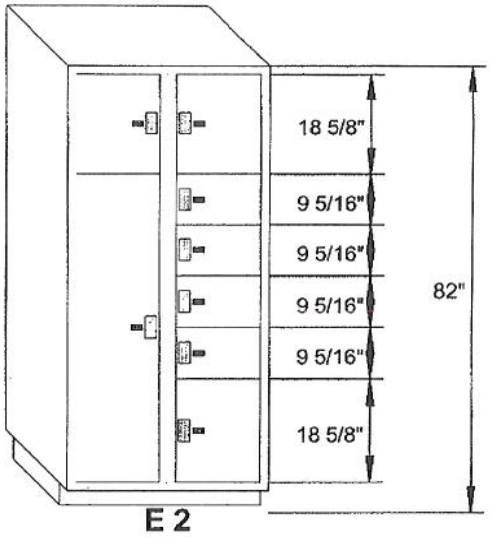

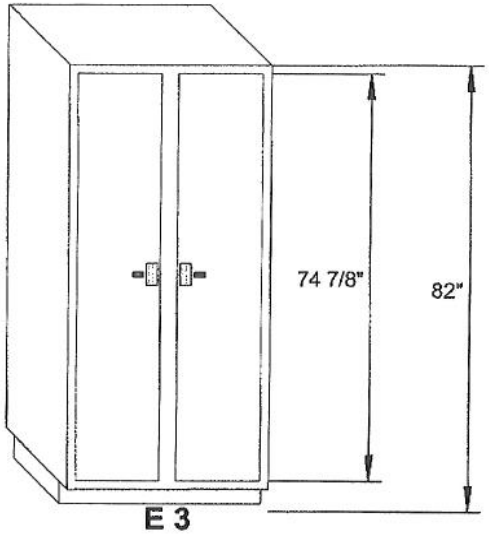

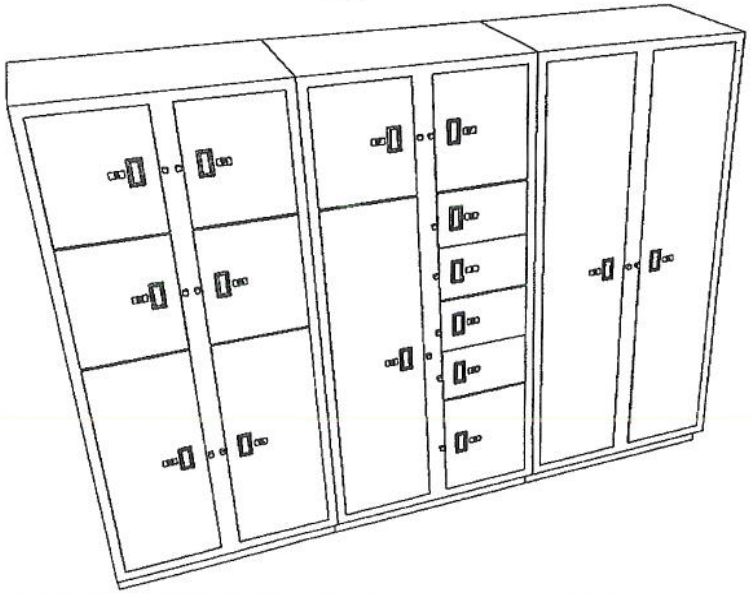

patterson·pope
SPACE MADE SIMPLE.

Project Name: Lake County Sheriff's Evidence Lockers			Project #: 02-107675 A1
Salesperson: D. Hoey	Scale 3/8" = 1'	Rev level:	Drawn by: E. Rohena
			Date Printed: 03/10/2009

APPROVAL
This drawing Approved By: _____

Dated_____

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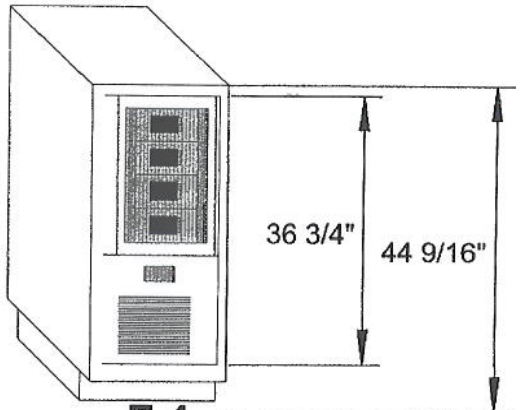

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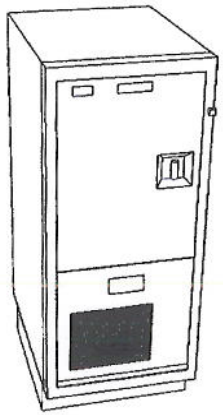

patterson·pope SPACE MADE SIMPLE.	Project Name: Lake County Sheriff's Evidence Lockers			Project #: 02-107675 A1	APPROVAL This drawing Approved By:
	Salesperson: D. Hoey	Scale 1/2" = 1'	Rev level:	Drawn by: E. Rohena	
				Date Printed: 03/10/2009	Dated_____

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LAKE COUNTY BOARD OF COUNTY COMMISSIONERS
FACILITIES DEVELOPMENT- CONSTRUCTION DIVISION
PROJECT : SHERIFF'S SUB-STATION, 15,729 SQUARE FEET
SCHEDULE OF VALUES FORM (REQUIRED 10 DAYS AFTER AWARD
RECOMMENDATION TO RESPONSIVE, RESPONSIBLE BIDDER)
(PLEASE FILL IN ALL OF AMOUNT COLUMN WITH DOLLAR AMOUNT)
PROJECT DURATION (180 CALENDAR DAYS FROM COMMENCEMENT to SUBSTANTIAL COMPLETION)

DIVISION	ACCOUNT DESCRIPTION	AMOUNT
1000	*GENERAL CONDITIONS*	
1020	MOBILIZATION	
1301	FIRE IMPACT FEES - ALLOWANCE	*$5,500*
1302	WATER IMPACT FEES - CITY FEES?? ALLOWANCE	*$0*
1303	SEWAGE IMPACT FEES CITY FEES ALLOWANCE	*$0*
1304	*BUILDING PERMITS & IMPACT FEES - "ALLOWANCE"*	*$4,500*
1305	*COUNTY ROAD IMPACT FEES - "ALLOWANCE"*	*$44,600*
1311	BUILDERS RISK INSURANCE	
1317	SITE SUPERVISION, PROJECT SUPERINTENDENT	
1320	CPM SCHEDULE-CONSTRUCTION PROGRESS DOCS	
1322	PROGRESS PHOTOS	
1330	SUBMITTAL PROCEDURES	
1509	DUMPSTERS-CONSTRUCTION WASTE MANAGEMENT	
1510	UTILITIES - TEMP ELECTRICAL & WATER	
1515	*UTILITIES - START UP POWER PERMANENT POWER HOOK-UP "ALLOWANCE"*	*$1,000*
1520	JOBSITE TRAILER - FIELD OFFICE NOT REQUIRED	
1540	SECURITY-BARRICADES/CONSTRUCTION AIDS	
1580	PROJECT SIGNAGE	
1590	MISC HAND TOOLS & EQUIPMENT RENTAL	
1710	CONSTRUCTION CLEAN UP AND FINAL CLEAN	
1720	PROJECT RECORD DOCUMENTS - PLANS	
1730	OPERATING AND MAINTENANCE DATA	
1740	AS-BUILTS	
1750	*QUALITY CONTROL TESTING "ALLOWANCE" FOR ALL DIVISIONS*	*$2,500*
1770	CONTRACT CLOSE-OUT/PROCEDURES	
1820	DEMONSTRATION & TRAINING	
1900	TEMPORY TOILETS	
2000	SITE WORK :	
2050	BUILDING DEMOLITION	
2360	TERMITE PRETREATMENT	
2500	UTILITY SERVICES-WATER MAINS, BACKFLOW PREVENTORS	
2640	*POTABLE WATER DISTRIBUTION*	
2645	*FIRE DEPARTMENT CONNECTION RELOCATED*	
2650	SANITARY SEWER SYSTEM FOR OCCUPANTS MODIFIED FOR PROJECT REQUIREMENTS	
2810	*REWORK EXISTING IRRIGATION AND SYSTEM ALLOWANCE*	*$1,500*
2890	TRAFFIC SIGNS	
2905	SOD	
2910	MULCH	
2920	DUMPSTER ENCLOSURE AS DETAILED	

DIVISION	ACCOUNT DESCRIPTION	AMOUNT
3000	*CONCRETE FORMWORK :*	
3100	*STRUCTURAL CIP FORMWORK*	
3110	CAST S.O.G. - IN PLACE CONCRETE	
3120	CONCRETE PUMPING	
3200	REINFORCEMENT FOR CONC.	
3400	PRECAST LINTELS & SILLS	
4000	*MASONRY :*	
4100	MORTAR	
4220	CONCRETE MASONRY UNITS	
4230	REINFORCING LINTEL & DOWN BARS	
4811	DOWN CELL POUR & LINTELS-PUMPING	
	SCAFFOLDING - EQUIPMENT RENTAL - CONC. PUMPS	
5000	*METALS :*	
5110	METAL WALL PANELS & ACCESSORIES	
5120	6-BOLLARDS	
5410	COLD FORMED METAL FRAMING	
5999	MISCELLANEOUS METALS AND FABRICATIONS	
6000	*WOOD & PLASTICS :*	
6100	ROUGH CARPENTRY	
6200	FINISH CARPENTRY	
6300	ROUGH LUMBER STUDS	
6412	CABINETWORK - MILLWORK	
7000	*THERMAL & MOISTURE PROTECTION :*	
7200	INSULATION	
7220	ROOF DECK & EXT WALL INSULATION (S.O.) OFFICE	
7620	FLASHING & SHEET METAL	
7631	GUTTERS & DOWNSPOUTS REPAIR	
7920	CAULKING & SEALANTS	
8000	*DOORS & WINDOWS :*	
8100	STEEL DOORS, H.M. FRAMES	
8110	WOOD DOORS, H.M. FRAMES	
8330	OVERHEAD ROLL-UP DOOR / AUTOMATIC DOOR OPENER	
8410	ALUMINUM ENTRANCE & STOREFRONT	
8505	ALUMINUM WINDOWS	
8710	FINISH HARDWARE	
8810	GLASS & GLAZING	
9000	*FINISHES :*	
9230	METAL LATH & STUCCO FINISH	
9250	GYPSUM WALLBOARD-WALL/CEILING TEXTURE W/ORANGE PEEL	
9265	STEEL STUDS	
9270	GYPSUM SHEATHING BOARD	
9510	ACOUSTICAL CEILINGS	
9651	RESILIENT TILE FLOORING-VCT	
9653	RESILIENT WALL BASE & ACCESSORIES	
9910	PAINTING- EXTERIOR STRUCTURE	
9990	ROOM FINISH SCHEDULE	

DIVISION	ACCOUNT DESCRIPTION	AMOUNT
10000	*SPECIALTIES :*	
10200	WALL LOUVERS EXHAUST FANS	
10426	SIGNAGE INTERIOR	
10427	SIGNAGE EXTERIOR	
10505	EVIDENCE LOCKER ALLOWANCE	*$18,100*
10521	PORTABLE FIRE EXTINGUISHERS	
10522	FIRE EXTINGUISHER CABINETS	
10800	TOILET & BATH ACCESSORIES-GRAB BAR, MIRRORS, TP AND PT N/A	
11000	*EQUIPMENT :*	
11191	DETENTION EQUIPMENT	
11192	DETENTION HOLLOW METAL DOORS & FRAMES	
11193	DETENTION SECURITY HARDWARE	
11454	*APPLIANCES - REFRIGERATOR W/FREEZER, MICROWAVE ALLOWANCE*	*$2,000*
12000	*FURNISHING :*	
12490	WINDOW TINTING	
12492	VERTICAL BLINDS	
12500	*OFFICE FURNITURE / EQUIPMENT ALLOWANCE*	*$10,000*
13000	*SPECIAL CONSTRUCTION :*	
13825	SECURITY/ACCESS SYSTEM	
13900	SALLY PORT ENCLOSURE SECURE AREA- FENCE/GATES - ROMOTE CONTROL DEVICES	
14000	*CONVEYING SYSTEM : -- NOT APPLICABLE*	

DIVISION	ACCOUNT DESCRIPTION	AMOUNT
15000	*MECHANICAL :*	
15010	MECHANICAL GENERAL PROVISIONS	
15050	BASIC MATERIALS & METHODS	
15058	CONTROL WIRING	
15080	PIPING SPECIALTIES	
15090	SUPPORTS, HANGERS, ANCHORS AND SLEEVES	
15300	FIRE SUPPRESSION SYSTEM (WET SYSTEM) SPRINKLER SYSTEM	
15310	FIRE ALARM LOCK / KNOX BOX	
15315	FIRE DEPARTMENT 3" FILL CONNECTIONS	
15402	DOMESTIC WATER SUPPLY & CIRCULATING PIPE	
15421	FLOOR DRAINS AND SHOWER DRAINS	
15421	CLEANOUT & ACCESSORIES	
15424	DOMESTIC WATER HEATERS	
15450	PLUMBING- SECURE FIXTURES AND TRIM	
15455	PLUMBING- FIXTURES AND TRIM-MOP SINK	
15460	WATER FOUNTAIN	
15460	VALUES, COCKS AND SPECIALTIES	
15671	CONDENSING UNITS: AIR COOLED HERMETIC	
15672	CONDENSATE LINES	
15673	FANS	
15763	AIR HANDLING UNITS	
15840	SHOP FABRICATED DUCTWORK	
15846	PRE - FABRICATED DUCTWORK	
15860	SHEET METAL SPECIALTIES	
15870	GRILLES, REGISTERS AND DIFFUSERS	
15880	FILTERS	
15894	DAMPERS FIRE & FIRE/SMOKE	
15900	DISINFECTION OF DOMESTIC WATER LINES MICROBIAL	
15955	HVAC BUILDING CONTROL SYSTEM (HONEYWELL) REMOTE CONTROL LON WORK CAPACITY	
15990	TEST & BALANCE (INCLUDED IN DIVISION 1750 S.O.V.)	
16000	*ELECTRICAL :*	
16010	BASIC ELECTRICAL REQUIREMENTS	
16012	SUBMITTALS	
16060	GROUND AND BONDING	
16075	ELECTRICAL IDENTIFICATION	
16090	TESTS AND PERFORMANCE VERIFICATIONS	
16111	CONDUIT	
16112	SURFACE RACEWAYS	
16123	BUILDING WIRE AND CABLE	
16130	RACEWAYS AND BOXES	
16131	OUTLET BOXES	
16133	PULL AND JUNCTION BOXES	

DIVISION	ACCOUNT DESCRIPTION	AMOUNT
16141	WIRING DEVICES	
16160	CABINETS AND ENCLOSURES	
16180	EQUIPMENT WIRING SYSTEMS	
16185	REWORK / RELOCATE FIBER OPTICS INSIDE BUILDING	
16190	SUPPORTING DEVICES	
16440	ENCLOSED DISCONNECT SWITCHES	
16471	PANEL BOARDS	
16472	DISTRIBUTION PANELBOARDS	
16510	INTERIOR LUMINARIES	
16530	EXTERIOR LUMINARIES	
16535	EMERGENCY LIGHTING EQUIPMENT	
16691	SURGE SUPPRESSION EQUIPMENT	
16715	TELEPHONE/DATA SYSTEM	
16721	ADDRESSABLE FIRE ALARM / DETECTION SYSTEM	
16742	PREMISE DISTRIBUTION SYSTEM WIRING	
16785	TELEVISION SYSTEM WIRING	
16797	WIRELESS DATA SYSTEM	
16797	COMMUNICATION SYSTEM	
	SUB - TOTAL CONSTRUCTION COST	
	PAYMENT & PERFORMANCE BOND	
	GENERAL CONTRACTORS OPH	
	TOTAL PROJECT EXCLUDING BID ADD ALTERNATES	
	BID ADD ALTERNATES: (PER SECTION 1100 OF PROJECT MANUAL)	
Alternate No. 1	Exterior Ceiling Soffit Removal & Replacement	
	a. Stucco Soffit (including Gypsum Sheathing)	
	b. Aluminum / Metal Soffit	
Alternate No. 2	Emergency Generator, Transfer Switch, and associated materials / work	
Alternate No. 3	Sexual Offender Registration Office (Suite 600)	
Alternate No. 4	Vinyl Composition Tile in lieu Sheet Vinyl (Armstrong Classic Corlon)	
	SUB-TOTAL CONSTRUCTION COST (INCLUDING BID ADD ALTERNATES)	
	ALTERNATE DEDUCT FOR OWNER SUPPLIED LABOR / MATERIALS	
2830	CHAIN LINK FENCING (ALL NON-ELECTRIC EXTERIOR PERIMETER FENCING)	
2900	EXTERIOR LANDSCAPING	
9310	CERAMIC TILE-FLOORS AND WALLS	
9681	CARPET	
9920	PAINTING- INTERIOR	
	TOTAL PROJECT W/ ALTERNATE DEDUCT FOR OWNER SUPPLIED LABOR	

GatorSktch
architects, incorporated

May 7, 2009

Lake County Department of Growth Management
Building Services Division
315 W. Main Street
Tavares, Florida 32778

RE: Interior Renovation for Lake County Sheriff's Office
Clermont, Florida – Permit# 2009030413

To Whom It May Concern:

Please accept this response letter and associated revised drawing for the plan review comments dated April 9, 2009 for the above referenced project:

Department: Fire Interior Alterations:

Comment 1: *Site Plan:*
An approved site plan has not been provided.

RESPONSE: **The site plan approved by the Zoning Division is being submitted to the building department with this response.**

Comment 2: *Door Hardware Schedule (Door #303 Missing from Schedule)*
Provide a Door Schedule and Door Hardware Schedule on the Plans.

RESPONSE: **COMPLIED. Door 303 has been added to the door schedule; please refer to revised sheet A8.1, dated May 7, 2009. This door has also been added to the Finish Hardware Schedule, Section 08710 of the Project Manual. Attached to this response is the revised Finish Hardware Schedule with door 303 added, and highlighted in yellow.**

Comment 3: *There appears to be an opening in the evidence room rated wall, please clarify / explain. Also, is it the design teams intention not to rate all walls protecting the records / evidence room?*

RESPONSE: **There is no opening in the evidence room rated wall; the drafting error has been corrected. Please refer to revised Floor Plan, Drawing A3.2, dated May 7, 2009. The design team has not rated the remaining walls as all evidence / materials stored in this room will be secured in fire rated evidence**

723 W. Montrose Street • Clermont, FL 34711 • 352.242.0129 office • 352.394.4827 fax
www.gatorsktcharchitects.com
Registered Architects: AA-26000515

lockers, per the Owner's request.

Comment 4: *Tires*: (remainder of comment & quoted code notation by plans examiner not cited for clarity)

RESPONSE: **There will be no tires stored within the building. The reference to tire storage has been removed. Please refer to revised Floor Plan drawing A3.2, dated May 7, 2009.**

Comment 5: *In the indoor Parts Room #501 are there any hazardous materials such as gas, solvents and cleaners being stored? Please indicate type and amounts.*

RESPONSE: **Per discussions with the Fire Plans Examiner and the Owner, room 501 will be re-named / classified as "Non-Hazardous Parts Room", and has been noted as such on revised sheet A3.2, Floor Plan, dated May 7, 2009. Any hazardous materials, such as carburetor cleaner, etc., shall be stored within the room in an NFPA approved cabinet.**

Department: PX-Commercial Plan Review:

Item C-2: Approved Site Plan with location of all buildings, structures, septic.

Comment: *Zoning approval required before a permit can be issued.*

RESPONSE: **The site plan approved by the Zoning Division is being submitted to the building department with this response.**

Item C-38: Corridor rating required, rating provided.

Comment: *Per FBC Table 1017.1, I-3 occupancy corridor is required to have a 1 hour rating. Please provide a "complete" tested fire-rated assembly detail, such as UL, FM, GA, FBC 720 Tables, etc. Complete fire-rated assembly (UL, FM, GA, etc.) details shall be provided as part of the architectural drawings. Include headwall details and perimeter barrier details.*

RESPONSE: **Per telephone discussions held May 6, 2009 with the Chief Plans Examiner (Skip Nemecek), and prior conversations with Building and Fire Officials, the corridor shall not be required to be rated.**

Item C-62:	Rated walls and fire walls designated.
Comment:	*Per FBC 712.6; Fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions or any other wall required to have protected openings shall be effectively and permanently identified with signs or stenciling in a manner acceptable to the Authority having Jurisdiction. Such identification shall be above any decorative ceiling and in concealed spaces. Suggested wording for fire and smoke barriers: "FIRE AND SMOKE BARRIER – PROTECT ALL OPENINGS."*
RESPONSE:	**Please refer to specification section 09250, Part 3.03 –B. All fire walls shall be stenciled and labeled as required. In this case, the 2-hour fire wall shall be labeled "2-HOUR FIRE WALL – PROTECT ALL OPENINGS".**
Item C-65:	Fire dampers – tested assembly designated.
Comment:	*Fire dampers need to have a 1.5 hour rating per FBC Table 716.3.1.*
RESPONSE:	**Please see the response below from TLC Engineering to Item M-10.**
Item C-80:	Doors, windows – size, type, location key, fire rating, glazing type, hardware, etc.
Comment:	*1. Doors in the #400 corridor need to have a 20 min. minimum rating per FBC Table 715.4.* *2. The pass through to the control station (404) need to be addressed as well.* 3. *If there is glass in any doors in the corridor doors then they will need to be wired glass.*
RESPONSE:	**Per telephone discussions held May 6, 2009 with the Chief Plans Examiner (Skip Nemecek), and prior conversations with Building and Fire Officials, the corridor shall not be required to be rated. All doors located in the 2-hour fire wall shall be 90 minute rated. Please refer to the door schedule and door types on sheet A8.1. All glass in doors located in fire partitions shall be wired glass.**
Item C-100:	Site plan with site requirements – parking, accessible route, ramps, etc.
Comment:	*Per site plan there are 244 parking spaces with an additional 15 in a secured area. Per FBC 11-4.1.2 (5) 244 spaces will require 7 accessible parking spaces.*

RESPONSE: **COMPLIED. Please refer to revised site plan A2.1, dated May 7, 2009. Two (2) additional accessible parking spaces have been added.**

Item C-101: Path of travel from public street sidewalk to building entrance.

Comment: *The accessible parking that is not next to the building needs a marked path to the building.*

RESPONSE: **COMPLIED. A marked path to the building has been provided. Please refer to revised site plan A2.1, dated May 7, 2009.**

Department: PX-Commercial Plan Review:

Item M-8: Show condensate waste location and/or detail

Comment: *Please demonstrate the disposal of condensation from the air handlers.*

RESPONSE: **(PER TLC Engineering) Condensate drains in Sheriff Area are existing, and terminate at grade on north side of building. See Note 6 on Sheet M2.1 for extension of piping to existing catch basin. Condensate in S.O. Suite is called out on Note 6, and terminates in drywall on west end of building. Will clarify on Sheet M2.1.**

Item M-10: Show fire damper location, type details

Comment:

1. *Even though the building is sprinklered a 2 hour wall is indicated and as such a 1.5 hour (min.) damper is required that passes through the 2 hour wall.*
2. *Please demonstrate that fire dampers will be used in the rated corridor.*

RESPONSE: **(PER TLC Engineering)**

1. **Will clarify on Note 12, Sheet M2.1 that fire dampers**

are 1.5 hour.

2. **Rated wall is indicated on Sheet M2.1 and dampers are shown in ducts penetrating the wall. Dampers are also indicated on Note 12.**

Thank you for your assistance in this matter. Please feel free to contact me should you have any further questions or comments.

Sincerely,

Jeff Powell, AIA, NCARB, Architect
GatorSktch Architects, Inc.

Enclosures

END OF RESPONSE

SECTION 01020 **ALLOWANCES**

PART 1 - GENERAL

1.01 DESCRIPTION

A. Include in Contract sum all allowances stated in the Contract Documents.

B. Designate in the construction progress schedule the delivery dates for products specified under each allowance.

C. Designate in the schedule of values the quantities of materials required under each unit cost allowance.

1.02 ALLOWANCES FOR PRODUCTS

A. The amount of each allowance includes:

1. Cost of product to the Contractor, less any applicable trade discounts.
2. Delivery to the site.
3. Applicable taxes.

B. In addition to amount of each allowance, include Contractor's cost for:

1. Handling at the site; including unloading, uncrating and storage.
2. Protection from the elements and from damage.
3. Labor for installation and finishing.
4. Other expenses required to complete the installation.
5. Contractor's and Subcontractor's overhead and profit.

C. The amount of each allowance, for work specified in the respective specifications sections:

1.	Section 02900: Landscaping and Irrigation, labor and materials	**$**	**12,000.00**
2.	Section 09310: Tile Work: 12 x 12 porcelain tile	**$**	**4.00/SF**
3.	Section 09685: Carpeting: Carpeting only	**$**	**27.00/YD**
4.	Section 11452: Appliances	**$**	**2,000.00**
5.	Schedule of Values: Evidence Lockers	$	**18,100.00**

1.03 SELECTION OF PRODUCTS UNDER ALLOWANCES

A. Architect's Duties:

1. Consult with Contractor in consideration of product's suppliers and installers.
2. Make selection in consultation with the Owner.
3. Obtain Owner's written decision, designating:
  a. Product, model and finish.
  b. Accessories and attachments.
  c. Supplier and installer as applicable.

d. Cost to Contractor, delivered to the site or installed, as applicable.

4. Transmit Owner's decision to the Contractor.

5. Prepare Change Orders.

B. Contractor's Duties:

1. Assist Architect and the Owner in determining qualified suppliers or installers.

2. Obtain proposals from suppliers and installers when requested by the Architect.

3. Make appropriate recommendations for consideration of the Architect.

4. Notify the Architect promptly of:

a. Any reasonable objections Contractor may have against any supplier or party under consideration for installation.

b. Any effect on the construction schedule anticipated by selections under consideration.

1.04 CONTRACTOR RESPONSIBILITY FOR PURCHASE, DELIVERY AND INSTALLATION

A. On notification of selection, execute purchase agreement with designated supplier.

B. Arrange for and process shop drawings, product data, and samples as required.

C. Make all arrangements for delivery.

D. Upon delivery, promptly inspect products for damage or defects.

E. Submit claims for transportation damage.

F. Install and finish products in compliance with requirements of referenced specification sections.

1.05 ADJUSTMENT OF COSTS

A. Should the net cost be more or less than the specified amount of the allowance, the contract sum will be adjusted accordingly by change order.

1. The amount of the change order will recognize any changes in handling costs at the site, labor, installation costs, overhead, profit, and other expenses caused by the selection under the allowance.

2. For products specified under a unit cost allowance, the unit cost shall apply to the quantity listed in the schedule of values.

3. For products specified under a unit cost allowance, the unit cost shall apply to the quantities actually used with a nominal allowance for waste, as determined by receipted invoices, or by field measurement.

B. Submit any claims for anticipated additional costs at site, or other expenses caused by selection under allowance, prior to execution of work.

C. Submit documentation for actual additional cost at the site, or other expenses caused by the selection under the allowance, within 60 calendar days after completion of execution of the work.

D. Failure to submit claims within the designated time will constitute a waiver of claims for

additional costs.

E. At contract closeout, reflect all approved changes in contract amounts in the final statement of accounting.

END OF SECTION

FINISH HARDWARE Door No:	100	101	102A	102B	103A	103B	104	105	106	108	109	110	111	112	113	114
Hinges, 4-1/2 X 4-1/2, FBB191, NRP																
Hinges, 4-1/2 X 4-1/2, FBB191							3	3	3				3			
Hinges, 4-1/2 X 4-1/2, FBB199											3	3				
Hinges, LCN double acting pivot CP-150																
Exit Device with outside electronic card access																
Exit Device with outside passage trim																
Exit Device with no outside trim																
Cylinder, balance of hardware by Store Front Mfg.	X	X		X		X										
Storage Lockset G04														X	X	
Office Lockset G05			X		X		X	X	X							
Exit Lockset G13																
Entrance Lockset G16																
Service Lockset G44																
Passage Latchset U15										X			X			
Privacy Latchset U65											X	X				
Dummy Pull Lever U94																
Dead bolt																
Closer, stop face parallel arm mounted																
Closer, hinge face mounted											X	X				
Concealed overhead closer, LCN-6035-CP-H																
Automatic Door Operator (Section 08460)																
Push plates, 8200-US28, 4X16																
Pull plates, 8302-8-US28, 4X16																
Armor Plate																
Kickplate																
Threshold, Pemko 2005 AV	X			X		X										
Threshold, Saddle type, Pemko 270A																
Floorplate (1/8" x 4" x DW)																
Door bottom sweep (darkroom door)																
Lockguard	X			X		X										
Floorstop 436			X		X		X	X	X	X	X	X	X	X	X	X
Floorstop 444																
Floorstop 446																
Wallstop 407-1/2																
Weatherstripping	X			X	X	X										
Frame	AL	AL	HM	AL	HM	AL	HM	HM	HM	HM	HM	HM	HM	HM	HM	HM
Soundseal 319 SR							X	X	X		X	X	X			
Soundseal (mortised into wood stop)																
Astragal																
Concealed Fluch Bolts (manual)(Auto on fire door)																
Door coordinator																
Electromagnetic holdopen device																
Keypad Cylindrical Lock																
SECURITY DOOR & HARDWARE (see specification 11193 for hardware sets)																
EXISTING DOOR TO REMAIN (GRAY COLUMN) OR BE MODIFIED	X	X	X	X	X	X				X				X	X	X
FIRE RATED HARDWARE																**X**

FINISH HARDWARE Door No:	416	417	419	420	421	422A	422B	500A	500B	501A	501B	501C	502	503	504	600	601	602	603	604
Hinges, 4-1/2 X 4-1/2, FBB191, NRP																6				
Hinges, 4-1/2 X 4-1/2, FBB191				3													3	3		
Hinges, 4-1/2 X 4-1/2, FBB199			3																3	3
Hinges, LCN double acting pivot CP-150																				
Exit Device with outside electronic card access																				
Exit Device with outside passage trim																				
Exit Device with no outside trim																				
Cylinder, balance of hardware by Store Front Mfg.						X	X									X				
Storage Lockset G04				X																
Office Lockset G05						X	X										X	X		
Exit Lockset G13																				
Entrance Lockset G16																				
Service Lockset G44					X				X											
Passage Latchset U15																				
Privacy Latchset U65			X																X	X
Dummy Pull Lever U94					X															
Dead bolt					X				X											
Closer, stop face parallel arm mounted						X	X									X				
Closer, hinge face mounted			X																X	X
Concealed overhead closer, LCN-6035-CP-H																				
Automatic Door Operator (Section 08460)																				
Push plates, 8200-US28, 4X16						X	X													
Pull plates, 8302-8-US28, 4X16						X	X													
Armor Plate																				
Kickplate						X	X													
Threshold, Pemko 2005 AV						X	X									X				
Threshold, Saddle type, Pemko 270A																				
Floorplate (1/8" x 4" x DW)																				
Door bottom sweep (darkroom door)																				
Lockguard					X	X	X									X				
Floorstop 436			X														X	X	X	X
Floorstop 444																				
Floorstop 446																				
Wallstop 407-1/2																				
Weatherstripping					X	X	X		X							X				
Frame			HM	HM	HM	AL	AL		HM							AL	HM	HM	HM	HM
Soundseal 319 SR			X	X													X	X	X	X
Soundseal (mortised into wood stop)																				
Astragal																				
Concealed Fluch Bolts (manual)(Auto on fire door)																				
Door coordinator																				
Electromagnetic holdopen device																				
Keypad Cylindrical Lock																				
SECURITY DOOR & HARDWARE (see specification 11193 for hardware sets)	X	X			X															
EXISTING DOOR TO REMAIN (GRAY COLUMN) OR BE MODIFIED						X	X	X	X	X	X	X	X	X	X					
FIRE RATED HARDWARE											**X**	**X**	**X**	**X**						

SECTION 09230 **LATH AND STUCCO**

PART 1 - GENERAL

1.01 GENERAL

A. **Scope Of The Work:** Work includes all lath and stucco labor, materials and incidentals necessary to render a complete 3-coat stucco installation as shown on the Drawings.

B. **Related Work Specified Elsewhere:**

1. Section 04200: Concrete Unit Masonry
2. Section 07920: Sealants, Caulking and Seals
3. Section 09270: Gypsum Sheathing Board
4. Section 09900: Painting and Finishing

1.02 QUALITY ASSURANCE

A. **ANSI Standards:** Comply with applicable requirements of ANSI A42.1 and A42.2, except where more detailed or stringent requirements are indicated, including those of the stucco manufacturer.

B. **Allowable Tolerances:** For flat surfaces do not exceed 1/8" in 10'-0" for bow, warp, plumb or level.

C. **Thickness:** Comply with ASTM C 926

1. Minimum 7/8" on metal lath
2. Minimum 5/8" on solid masonry or concrete base

1.03 JOB CONDITIONS

A. Protect contiguous work from soiling, spattering, moisture deterioration and other harmful effects which might result from stucco application.

B. Sequence stucco installation properly with the installation and protection of other work, so that neither will be damaged by the installation of the other.

PART 2 - PRODUCTS

2.01 MATERIALS

A. **Portland Cement**, ASTM-C-150, Type 1

B. **Lime:** ASTM C206, type S

C. **Aggregate:** Clean sand, ASTM C-35

D. **Water:** Potable and clean

E. **Finish:** Float, sand

2.02 MIXES

A. **Scratch Coat:** One (1) part Portland Cement by weight to three (3) parts of clean sand by weight.

B. **Base Coat Lime:** Special finishing hydrated lime, mixed no more than eight (8) pounds of lime per each 100 pounds of Portland Cement used in the mixture.

C. **Finish Coat:** 1:3 mixture, five (5) sacks of waterproof Portland Cement to 15 cubic feet of clean sand.

2.03 ACCESSORIES

A. **Ties:** #18 soft annealed steel wire, galvanized.

B. **Metal Lath:**

1. Vertical surfaces: Self-furring diamond mesh lath, hot-dipped galvanized, **AMICO Standard Metal Lath** or equal.
2. Exterior Horizontal Surfaces: Self-furring ribbed diamond mesh lath, hot-tipped galvanized, **AMICO Rib Lath 3/8" (high)**, or equal. *[for suspended metal systems*
3. Exterior Horizontal Surfaces: Self-furring ribbed diamond mesh lath, hot-tipped galvanized, with asphalt laminated paper backing, **AMICO Big Mesh (UUB-790a)**, or equal. *[for wood systems]*

C. **Trim:** (Contractor may use either metal or vinyl components)

1. Metal:
- **a.** Control Joints: zinc alloy, double v type, full depth of plaster.
- **b.** Corner Reinforcement zinc alloy, with minimum 2" wings.
- **c.** Expansion / Control Joints: zinc alloy, two piece full depth of plaster.
- **d.** Foundation Drip Screed: zinc alloy, V shape with spring tight flange.
- **e.** Casing Beads: zinc alloy; of widths required, square edge.
- **f.** Channel Screed: Zinc alloy, 1/4-inch channel, square edge.

2. Vinyl: (Plastic Components. 800-327-7077):
- **a.** Corner Reinforcement: #1A
- **b.** Casing Beads: 1075
- **c.** Drip screed: 632-75
- **d.** Soffit Vent: nominal 3" wide, 551

D. **Trim:** (metal)

1. Control Joints: zinc alloy, double v type, full depth of plaster.
2. Corner Reinforcement: zinc alloy, with minimum 2" wings.
3. Expansion / Control Joints: zinc alloy, two piece full depth of plaster.
4. Foundation Drip Screed: zinc alloy, V shape with spring tight flange.
5. Casing Beads: zinc alloy; of widths required, square edge.
6. Channel Screed: Zinc alloy, 1/4-inch channel, square edge.

E. **Trim:** Vinyl Corp. (800) 648-4695

1. Control Joints: 1575X
2. Corner Reinforcement: #1
3. Casing Beads: 6675
4. Drip screed
a. Horizontal Soffits DS15-75
b. Vertical walls: WS75-250

PART 3 - EXECUTION

3.01 INSPECTION

A. Examine surfaces which are to receive stucco application, grounds and other accessories which act as grounds or screeds, for conditions detrimental to the proper and timely completion of the Work.

B. Do not proceed with the stucco work until unsatisfactory conditions have been corrected in a manner acceptable to the installer.

3.02 INSTALLATION

A. **Metal Lath - Vertical Surfaces:**

1. Place self-furring metal lath against substrate (sheathing board or CMU) with end joints staggered in adjacent rows.
2. Mechanically attach to CMU using corrosion protected metal pins and discs, spacing 6" o.c. each way.
3. Attach through sheathing to metal furring, through dimples only, spacing screws 6" o.c.
4. Lap ends of lath at least 1" between supports.
5. Lap side joints at least ½".
6. Wire-tie all side laps and end joints between supports together at intervals not to exceed 6".
7. Cut metal lath at all expansion joint locations.

B. **Metal Lath - Horizontal Surfaces:** *[metal rigid suspended substrate structured for uplift*]

1. Install metal lath with long dimension perpendicular metal framing secured with #18 wire at 6" oc.
2. Lap ends at least one inch over supporting members.
3. Lap sides at least ½ inch and tie with #18 wire at 9" oc.
4. Reinforce corners at all openings by attaching a 6" x 12" piece of metal lath diagonally across corners.
5. Cut metal lath at all expansion joint locations.

D. **Stucco:**

1. Comply with ANSI A42.1 and A42.2 and with manufacturer's instructions which are more detailed and more stringent.

2. Mechanically mix stucco materials at the project site; do not hand mix except where small amounts are needed, using less than one bag of materials.
3. Where stucco is not terminated at metal by casing beads, cut base-coat free from metal before stucco sets and groove finish coast at the junctures with metal.

E. Trim:

1. Install corner beads at external corners.
2. Install casing beads where shown and at openings and exposed terminations of stucco work; leave 1/4" sealant pocket at exterior casing beads against door and window frames.
3. Install control joints where indicated, set with 1/4" wide sealant pocket for interior joints, 3/8" for exterior.
4. Meeting of horizontal and vertical control joints.
   a. Make vertical control joints continuous through the intersection.
   b. Stop horizontal control joints at the intersection, allowing vertical control joint to pass through the intersection.
5. Expansion joints: Install in pattern scheduled or detailed on drawings or at least every 20 feet in both directions, placing joints parallel or perpendicular to building lines.
6. Form a drip near the outside edge of all soffits, a minimum of 1/4-inch wide and 1/4-inch deep.

3.03 CUTTING AND PATCHING

A. Cut, patch point up and repair stucco as necessary to accommodate other work and to restore cracks, dents and imperfections.

B. Repair or replace Work to eliminate blisters, buckles, excessive crazing and check cracking, dry-outs, efflorescence, sweat outs and similar defects, including areas of the Work which do not comply with specified tolerances, and where bond to the substrate has failed.

3.04 CLEANING AND PROTECTION

A. Remove temporary protection and enclosure of other work.

B. Promptly remove stucco from door frames, windows, and other surfaces which have been stained, marred or otherwise damaged during the stucco work.

C. When stucco work is completed, removed unused materials, containers and equipment and clean floors of plaster debris.

D. Installer shall advise the Contractor of requirements for the protection of stucco from deterioration and damage during the remainder of the construction period.

END OF SECTION

FINISH HARDWARE Door No:	203B	203C	300	301	302	303	400A	400B	401	402	403	404	405	406	407	408	409	410A	410B	412	413	414	415
Hinges, 4-1/2 X 4-1/2, FBB191, NRP							3																
Hinges, 4-1/2 X 4-1/2, FBB191	3	3	3	3	3	3		3	3				3	3	3	3	3			3	3		
Hinges, 4-1/2 X 4-1/2, FBB199																							
Hinges, LCN double acting pivot CP-150																							
Exit Device with outside electronic card access																							
Exit Device with outside passage trim																							
Exit Device with no outside trim																							
Cylinder, balance of hardware by Store Front Mfg.							X																
Storage Lockset G04						X															X		
Office Lockset G05	X	X	X	X	X			X						X	X	X	X						
Exit Lockset G13																							
Entrance Lockset G16																							
Service Lockset G44																							
Passage Latchset U15									X														
Privacy Latchset U65																							
Dummy Pull Lever U94																							
Dead bolt						X																	
Closer, stop face parallel arm mounted	X	X	X		X		X	X															
Closer, hinge face mounted																							
Concealed overhead closer, LCN-6035-CP-H																							
Automatic Door Operator (Section 08460)																							
Push plates, 8200-US28, 4X16													X							X			
Pull plates, 8302-8-US28, 4X16													X							X			
Armor Plate																							
Kickplate													X							X			
Threshold, Pemko 2005 AV							X																
Threshold, Saddle type, Pemko 270A																							
Floorplate (1/8" x 4" x DW)																							
Door bottom sweep (darkroom door)																							
Lockguard							X																
Floorstop 436	X	X	X	X	X	X		X	X				X	X	X	X	X			X	X		
Floorstop 444																							
Floorstop 446																							
Wallstop 407-1/2																							
Weatherstripping							X																
Frame	HM	HM	HM	HM	HM	HM	AL	HM	HM				HM	HM	HM	HM	HM			HM	HM		
Soundseal 319 SR	X	X	X	X	X	X		X	X				X	X	X	X	X			X	X		
Soundseal (mortised into wood stop)																							
Astragal																							
Concealed Fluch Bolts (manual)(Auto on fire door)																							
Door coordinator																							
Electromagnetic holdopen device																							
Keypad Cylindrical Lock																							
SECURITY DOOR & HARDWARE (see specification 11193 for hardware sets)										X	X	X						X	X			X	X
EXISTING DOOR TO REMAIN (GRAY COLUMN) OR BE MODIFIED																							
FIRE RATED HARDWARE		**X**	**X**					**X**															

SECTION 11193 **SECURITY HARDWARE**

PART 1 - GENERAL

1.1 SUMMARY

A. General Contractor (GC) and/or Detention Equipment Contractor (DEC) shall furnish plant and field labor, equipment, appliances, services and materials, perform work and otherwise assume all responsibility related to fabrication and installation of detention equipment indicated in this section.

B. GC and/or DEC shall coordinate with installation of electronic security automation systems provided under Section 17000 in strict compliance with Contract Documents.

1.2 SECTION INCLUDES ALL HARDWARE REQUIRED FOR PROPER OPERATION OF SECURITY AND DETENTION DOORS

A. Detention hardware and locking devices.

B. Builders' hardware and accessories for detention doors and frames.

C. Appurtenances for detention doors, frames and partitions.

D. Coordinate with installation of electronic security automation systems provided under Section 17000.

1.3 RELATED WORK TO BE PERFORMED BY OTHERS

A. Division 9 - Finishes

1. Remove foreign materials such as mortar, plaster, concrete, waterproofing and dust from surfaces of hardware prior to finish painting.

2. Retouch shop coat of rust inhibiting primer paint and finish paint hardware after installation and final adjustment.

3. Complete floor finishes, waterproofing, plastering and painting on or near detention equipment after installation and final adjustment.

B. Division 16 - Electrical

1. Coordinate electrical power requirements with electronic security automation systems and General Contractor.

2. Provide power wiring, cable, conduit, electrical boxes, mortar boxes and fittings and make connections to factory installed terminal blocks at:
   a. Control consoles
   b. Equipment cabinets
   c. Communication devices
   d. PLC racks
   e. UPS units
   f. CCTV monitors

3. Furnish and install required conduit and standard back boxes for systems and equipment furnished by electronic security automation systems. This conduit system to be installed per approved conduit drawings prepared by electronic security automation systems' contractor (ESASC).

4. Install special back boxes, cabinets and enclosures furnished by electronic security automation systems' contractor including, but not limited to, speaker back boxes, equipment racks and cabinets.

5. Furnish and install "main building grounds" for each transient voltage surge suppressor installed by ESASC.

1.4 SUBMITTALS

A. Submit shop drawings for approval prior to fabrication and delivery of materials or products.

B. Provide CADD-generated drawings:

1. Include dimensions, configurations of materials, and connection details required to clearly convey the proper relationship of detention equipment to work being performed by others.

2. Show sizes, details of construction, assembly methods, hardware, and other details of items specified in this Section.

3. Draw to scale of not less than 1/4 inch equals 1 foot for plans and 1 inch equals 1 foot for sections.

C. Include following minimum requirements in initial submittal package:

1. Keying plan:
   a. Submit proposed keying plan for each floor of each building.
   b. Identify room numbers and each detention door or piece of equipment to be operated by key.
   c. Identify electrically controlled or operated doors with an "E" symbol.
   d. Prefix lock types as follows: "P" for Paracentric, "M" for mogul, "C" for commercial and "HS" for high security.
   e. Exclude dimensions and other equipment information from this plan.

2. Hardware schedule:
   a. Submit eight (8) copies. Include specification references and product comparisons.
   b. Submit hardware on vertical schedule.
   c. Indicate project name, location, Architect, General Contractor, hardware suppliers

and AHC preparing schedule.

d. Include hardware items proposed for use at each opening, as well as other hardware necessary to complete work of this Section.

e. Include for each item:

1. Manufacturer's name, catalog number and type designation
2. Quantities
3. Size
4. Finish

f. Indicate degree of opening for each door, Architect's hardware set number, finishes and substitutions proposed for specified items.

g. List doors required in this Section in numerical order and show keying proposed for each in accordance with keying plans.

3. **Failure to provide any part of minimum requirements described above will result in rejection of total submittal package.**

D. Discrepancies:

1. Direct Architect's attention to any discrepancies between detention equipment drawings and Contract Drawings.

2. Subsequent discrepancies that may be discovered by other contractors during construction are to be immediately reported to Architect, GC and/or DEC for resolution.

3. Other contractors shall not proceed with any work affecting detention equipment until such discrepancies are completely resolved.

E. Architect will not coordinate drawings for composite parts of joint-venture efforts under this Section. **Partial or separate drawing submittals for various components required herein will result in rejection of total submittal package.**

F. Provide drawings for field distribution and contract records after approval of all submittals.

1.5 TEST REPORTS

A. Testing Laboratory:

1. Independent testing laboratory capable of compliance with specifications of American Society for Testing and Materials (ASTM).

2. Selected by GC and/or DEC.

3. Approved by Architect.

4. Furnish certification and reports directly to GC and/or DEC with copies for transmittal to Architect.

B. GC and/or DEC responsibilities:

1. Absorb costs associated with testing.

2. Submit test reports to Architect prior to delivery of following materials to job site:
   a. Hardware.

1.6 REGULATORY REQUIREMENTS

A. Perform work in compliance with latest editions of:

1. Federal, state, and local codes and ordinances, or agencies having jurisdiction.

2. National Electric Code, NFPA 70.

3. Standard for Fire Doors and Windows, NFPA 80.

4. Life Safety Code, NFPA 101-88.

B. In cases where Specifications call for materials or construction of better quality or larger size than codes require, Specifications shall take preference. Codes shall govern in cases of direct conflict with Specifications or Contract Drawings.

1.7 DELIVERY, STORAGE AND HANDLING

A. Packing and shipping:

1. Wrap and crate finished components and assemblies at factory to prevent damage or marring of surface finishes during shipping and handling.

2. Stretch-wrap locking and operating devices and control consoles to protect from dust and debris.

3. Handle and transport detention equipment to job site carefully to prevent damage.

B. Acceptance at site:

1. Coordinate delivery of detention equipment embedded items with General Contractor in accordance with construction progress and schedule to avoid delays.

2. Coordinate size of building access and route to location of equipment installation with General Contractor.

3. Upon delivery, immediately inspect components and assemblies for damage and remove damaged items from job site. Damaged components will be rejected and will not be incorporated into the work.

C. Storage and protection:

1. Provide adequate protection for products and materials during storage and installation.

1.8 SEQUENCING AND SCHEDULING

A. Submit detailed schedule of field installation activities to General Contractor at least two months before field installation is to begin. Include activities to describe all aspects of field installation.

B. Submit revised schedule to General Contractor each month showing status of each activity and revised project completion date.

1.9 WARRANTY

A. Prior to final acceptance, provide Owner with written warranty covering locking and operating devices furnished under this section for period of one (1) year from date of substantial completion. During this period, make necessary repairs and corrections to defects in Work and replace defective parts at no cost to Owner.

B. Warranty does not cover consequential or incidental damages. Work made necessary by abuse, misuse, accidents, or negligence of using personnel is excluded from this agreement.

C. Provide emergency service during warranty period, including maximum twenty-four (24) hour response time for emergency calls requiring visits to facility.

1.10 MAINTENANCE MANUALS/SPARE PARTS

A. Operating and maintenance manuals: Provide Owner with two (2) operating and maintenance manuals for locking and operating devices furnished and installed under this section. Clearly identify all parts and include manufacturer's standard part number for each component of various mechanisms.

B. Spare parts:

1. Furnish one (1) complete spare set of right and left hand motors, gears, locks and switches for each type specified.

2. Pack parts in suitable containers and label clearly.

3. Provide building maintenance department with two (2) of each type of special tools required for installation, removal, or adjustment of hardware and equipment provided under this section.

1.11 KEYS FOR DETENTION LOCKS

A. Provide for safekeeping of keys for locks provided under this section. Ensure that building security is not breached through job site loss or theft of keys being used for hardware installation or "fit-up" purposes.

B. Die-stamp each key for detention locks with identification designated on approved keying schedule.

C. Upon completion of Work and prior to final acceptance, present one (1) complete set of keys to Owner's designated representative and obtain a signed receipt. Send subsequent keys ordered to same individual via registered mail, return receipt requested.

D. By no means shall any keys be turned over directly to the Contractor.

E. Submit a total of three (3) sets of keys.

PART 2 - PRODUCTS

2.1 DETENTION HARDWARE AND LOCKING DEVICES

A. Pre-qualified manufacturers:

1. Southern Folger Detention Equipment Company, San Antonio, Texas.

B. Non-Prequalified Manufacturers:

1. Any Non-Prequalified Manufacturer who intends to submit a bid on this section of the Specifications shall submit the following data to the Architect in writing ten (10) days prior to bid date and shall be approved by addendum five (5) days prior to bid date. Verbal approval will not satisfy this requirement. Grounds for disqualification shall exist if it is proven that the information submitted is inaccurate or, in the opinion of the Architect, does not satisfy the requirements.

   a. Provide a narrative and historical description of the firm from inception, including history of ownership, partnership, incorporation, and/or other organizational information. Include information on the growth of the firm over time to include the number of employees, relocation(s) of the firm, major production equipment purchases and replacements.
   b. List the firm's business volume (dollar amount) for the last five (5) fiscal years.
   c. Provide a statement that the firm has been in business for a minimum of ten (10) continuous years, and the principals and key personnel that have been engaged in successfully providing procurement, management, installation and commissioning of security detention projects.
   d. Provide a list of all employees in a supervisory capacity, stating their area of responsibility and their years of experience in that capacity.
   e. Submit a list of all projects completed in the last ten (10) years.
   f. Submit a list of five (5) projects that this corporation, under its current name, has built in the last five (5) years comparable in size and construction. Include in this list:
      1. Project Name, Owner, Contract Name, Address and Phone Number.
      2. Project Manager Name, Address and Phone Number.
      3. Using Agency Name, Address and Phone Number.
      4. Architect and Engineer of Record Name, Address and Phone Number.
      5. General Contractor and/or Construction Manager Name, Address and Telephone Number.

      For each project listed provide the following:
      1. Name and location of project.
      2. Type of project (state or federal prison, county or city jail)
      3. Project delivery method (traditional, design/bid/build, design/build, design/build/manage, general construction, construction manager, etc.)
      4. Scope of the Project including total number of cells, total project square footage, type of product and service provided on that project, and the total quantity of the contract.

5. Date of final completion and occupancy.

g. Submit a list of five (5) projects that this corporation, under its current name, has built in the last ten (10) years comparable in size and construction that have been in continuous operation for a minimum of five (5) years. Include in this list:

1. Project Name, Owner, Contact Name, Address and phone number.
2. Project Manager Name, Address and Phone Number.
3. Using Agency Name, Address and Phone Number.
4. Architect and Engineer of Record Name, Address and Phone Number.
5. General Contractor and/or Construction Manager Name, Address and Telephone Number.

For each project listed provide the following:

1. Name and location of project.
2. Type of project (state or federal prison, county or city jail)
3. Project delivery method (traditional, design/bid/build, design/build, design/build/manage, general construction, construction manager, etc.)

h. Provide an audited financial statement from a recognized accounting firm for the most recent fiscal year.

i. Submit a listing of all projects in which the detention equipment contractor is presently or has been involved in litigation and the status thereof. In addition to this statement, please respond to the following questions A through G. For any "YES" answer to the following questions, please attach a separate sheet, which provides a brief explanation of the facts, names of the parties involved, dollar amount being claimed from your firm, and the present status of the case. Attach explanations of any lawsuit alleging negligent of defective work, or breach of contract on part of the firm. Do not include lien matters, automobile accident cases, or workman's compensation cases:

1. Has a court issued a judgment of $50,000.00 of more against the firm or its predecessors in the past five (5) years?
   _____ YES _____ NO
2. Has the firm or its predecessors been party to the settlement of a lawsuit with a potential value of $50,000.00 or more?
   _____ YES _____ NO
3. Is the firm or its predecessors currently a party to a pending lawsuit with a potential value of $50,000.00 or more?
   _____ YES _____ NO
4. In the past five years, has any key person, the firm or its predecessors defaulted on a loan?
   _____ YES _____ NO
5. Has the firm of its predecessors or any person of the firm or its predecessors ever been suspended or debarred by a state, federal or municipal agency?
   _____ YES _____ NO
6. In the past five (5) years, has the firm or its predecessors been terminated on or failed to complete any contract?
   _____ YES _____ NO

j. Submit a statement that you will conform with the following in regard to project coordination, procurement, schedules, and delivery of materials necessary to complete your scope of work.

1. The Manufacturer must complete the submittal package of all items listed

below within three weeks of written notice to proceed.

a. Hardware Schedule – including wiring diagram and templates.

2. The submitted manufacturers must commit in writing to the following schedule. The Architect or Construction Manager maintains the right to make adjustments to the schedule prior to contract execution.

a. shipment of all detention door hardware.

k. Provide a letter from the International Ironworkers Union that your firm employs union ironworkers to install the specified security products on this project.

C. Key cylinders and tumbler sets:

1. Each paracentric key lock will include six (6) lever tumblers. Maximum clearance between tumbler gate and locking fence is 0.31 inches. Fit tumblers to allow for .025 inches of wear before the replacement of a key is required. Tumblers shall be spring temper bronze alloy C-26000 with notched gate edge.

2. Mogul pin tumbler cylinder shall be brass, 2 inches in diameter, with stainless steel balls, tumblers and springs. Cylinders to comply with UL 437 and be labeled by nationally recognized independent testing laboratory.

D. Paracentric keys:

1. Material: Silicon bronze/copper alloy with tensile strength of 60,000 psi, yield strength of 20,000 psi and Rockwell hardness of B-73/75.

2. Stamp with key code as directed.

3. Furnish three (3) keys for each code.

E. Mogul keys:

1. Material: Stamp from CDA-78200 hard temper alloy with Rockwell hardness of B-85.

2. Stamp with key code as directed.

3. Furnish three (3) keys per code.

F. Not Used.

G. Mortised institutional hinge: (Portland Hardware PH745)

1. Full mortised, 0.188 inch thick investment-cast stainless steel leaves.

2. Two reinforced polymer bearings with lubricant designed specifically for stainless steel pin. Assembly to exhibit low coefficient of friction.

3. Stainless steel hinge pin, non-removable and fully concealed.

H. Door position indicator switch: (RR Brink #201030)

1. Concealed mounted in frame header with actuator in door.

2. Structural and working parts of brass and zinc electroplated steel. (exposed finish ANSI 603, US2G)

3. SPDT (Form C) Switch – 10 Amps @250 VAC

4. Color coded 8 foot lead wire harness with quick disconnect at unit housing

I. Loop Door pull: (RR Brink #300021)

1. Material: Cast stainless steel.

2. Finish: US32D.

J. Recessed door pull: (RR Brink #300011)

1. Material: Cast Brass.

2. Finish: US26D.

K. Mechanical lever tumbler locks:

1. General: Lever tumbler locks shall operate with paracentric key. Key all lever tumbler locks into one keying system. Key locks alike in groups or key differently to approved keying schedule. Master keying is not permitted for lever tumbler locks. Include lock mounting, escutcheons, strike and mounting screws for complete application. Use break off head security screws on lock mounting and strike. Use Torx tamper resistant screws on cylinder escutcheons.

2. Maximum security deadlock: (RR Brink 7080 Series)
   a. Material:
      1. Case: Investment cast steel, zinc plated.
      2. Deadbolt: Cold finished steel, electro-galvanized, 3/4 inch thick with three 1/4 inch diameter hardened steel roller pins, 3/4 inch throw.
      3. Cylinder: Investment cast, bronze alloy, for key one side (#82) or key both sides (#86).

   b. Performance:
      1. Include anti-bind feature to prevent tumblers from binding with side pressure applied to deadbolt. Lock shall operate under 300 pound side load test.
      2. Key operated deadlock. Key removable in locked and unlocked positions.

   c. Accessories:
      1. Lock mountings: HM for hollow metal doors, G for grill doors and P for plate doors.
      2. Strike 7080kd: 3/16 inch steel with dust box to protect bolt and mounting screws.
      3. Strike 7080ks: 3/16 inch steel with dust box and switch to monitor bolt position.

3. Maximum security dead latch: (RR Brink #7070 Series)
   a. Material:
      1. Case: Investment cast iron, zinc plated.
      2. Latch bolt: Cold finished steel, electro-galvanized, 3/4 inch thick with two 1/4 inch diameter hardened steel roller pins, 3/4 inch throw.
      3. Deadlock actuator: Cold finished steel, electro-galvanized, 1/2 inch thick, 1/2 inch travel.
      4. Cylinder: Investment cast, silicon brass alloy, for key one side (#72) or key both sides (#76).

   b. Performance:
      1. Lock shall comply with UL10B Fire Tests of Door Assemblies, Class A - 3 hour rating.
      2. Key unlocks and retracts latch bolt. Deadlocked by actuator when closed. Key removable in latched and deadlocked position.
   c. Accessories:
      1. Lock mountings: G for grille doors, HM for hollow metal doors and P for plate doors.
      2. Strike 7070KD: 3/16 inch steel with dust box to protect bolt and mounting screws.
      3. Strike 7070KS: 3/16 inch steel with dust box and switch to monitor latch bolt position.

4. Not Used.

5. Not Used.

6. Latch for food passes: (RR Brink #7017 Series)
   a. Material:
      1. Case: Investment cast steel, zinc plated.
      2. Latch bolt: Investment cast stainless steel, 7/16 inch throw.
      3. Cylinder: Investment cast, silicon brass alloy, for key one side (#17).
   b. Performance:
      1. Key operated latch. Key removable in latched position.

7. Deadlock for access panels, key cabinets and electrical panels: (RR Brink #7010 Series)
   a. Material:
      1. Case: Investment cast steel case, zinc plated.
      2. Deadbolt: Cold finished steel, electro-galvanized, 3/4 inch thick, 5/8 inch throw.
      3. Cylinder: Investment cast, silicon brass alloy, for key one side (#12) or key both sides (#16).
   b. Performance:
      1. Key operated deadlock. Key removable in locked and unlocked positions.
   c. Accessories:
      1. Lock mountings: HM for hollow metal doors and P for plate doors.
      2. Strike 7010KD: 3/16 inch steel with dust box to protect bolt and mounting

screws.

PART 3 - EXECUTION

3.1 VERIFICATION OF CONDITIONS

A. Examine areas and surfaces to receive materials, assemblies and equipment furnished and installed under this section:

1. Verify proper location of embeds, frames and items installed by others.

2. Check rough-ins and field dimensions of building construction.

3. Inspect concrete and masonry to ensure construction within required tolerances.

4. Confirm locations of materials ingress openings in building.

B. Report unsatisfactory conditions to Architect in writing. Do not begin installation of detention equipment until unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. General Contractor:

1. Provide openings through exterior and interior building walls to accommodate ingress of detention equipment. Coordinate sizes and locations of openings with GC and/or DEC.

2. Ensure accuracy of building construction, including sizes and locations of beams and columns, concrete, masonry and framed walls, evenness of concrete and dimensional consistency.

3. Broom clean, properly light and heat areas of building where detention equipment is to be installed.

4. Prior to installation of electrical and mechanical hardware or locking and operating devices and controls, exterior closing walls should be in place, exterior windows glazed, and roof completely installed to prevent weather damage to components. Provide GC and/or DEC written notification to proceed with installation once these conditions have been met. Installation will not commence until GC and/or DEC receives written notification.

5. Provide 220 volt AC, 60 cycle, 3 phase power for use by GC and/or DEC in connection with installation of detention equipment.
   a. If permanent power service is not available within reasonable access to detention areas when installation of detention equipment begins, provide temporary power (50 amps per welding machine) and bear expense.

   b. If sufficient temporary power is not available, reimburse GC and/or DEC for extra labor and fuel required for use of gasoline welding machines.

3.3 INSTALLATION

A. General:

1. Install fixtures, materials, assemblies and equipment listed in Articles 1.2 and 1.4 in strict compliance with Specifications, Contract Drawings and manufacturers' recommendations and instructions.

2. Provide necessary drawings, setting diagrams or other information required to Contractor responsible for installation of GC and/or DEC-furnished items to be installed by others.

3. Supervise installation of electronic security systems provided under Section 17000.

B. Attachment and connection of detention equipment:

1. Secure detention equipment permanently in place with minimum of exposed fasteners and free from warp, twists, bends, rough edges, cracks or open joints. Exposed fasteners shall be uniform in size, spacing and appearance and shall be tamper-resistant.

2. Punch bolt holes not more than 1/16 inch larger in diameter than bolts to be used. Accurately space and align holes to permit insertion of bolts. When bolts are used, nuts shall be tightly drawn and bolt threads battered to prevent removal.

3. Remove loose scale, rust, oil and other foreign matter from surfaces to be welded. Welds shall show uniform cross-sections, good penetration of base metals, smoothness of weld metal with a minimum of craters, porosity and clinkers.

4. Thoroughly clean burns, welds and welding spatter on detention equipment resulting from fabrication and installation.

5. Welds which are neat in appearance and evenly spaced shall not require grinding.

C. Supervision:

1. Work shall be performed under direct supervision of competent, experienced, factory-trained project superintendent who shall be full-time employee of GC and/or DEC.

2. GC’s and/or DEC's superintendent shall be present at job site during all phases of installation of detention equipment.

3. GC and/or DEC shall be responsible for conduct and performance of jobsite personnel and shall ensure that Work progresses without serious conflict with related work being performed simultaneously by other trades.

3.4 DEMONSTRATION

A. Provide designated custodial personnel instruction in proper operation of detention equipment and electronic security systems for a period of time not less than three (3) working days.

B. Provide designated maintenance personnel instruction in proper maintenance of detention equipment and electronic security systems for a period of time not less than three (3) working days.

3.5 HARDWARE SCHEDULE

Security Hardware Sets:

SECTION 1: NOT USED

SECTION 2: MEDIUM/MAXIUM SECURITY ELECTRO-MECHANICAL LOCKSETS (ALL MOTORIZED LOCKS TO HAVE HALF-CYCLE HOLDBACK TYP.)

Set No. 2.1: Exterior Sallyport Doors

3 Hinges PH745
1 Lock 3526-600-MSLH-24VDC
2 Loop Pulls #300021
1 Concealed Closer 2214 DPS
1 Floor/Wall Stop PH760
1 Set Weatherstripping 5050C
1 Pass-Proof Threshold 883V

Set No. 2.2: Interior Sallyport/Control Doors

3 Hinges ph745
1 Lock 3526-600-MSLH-24VDC
2 Loop Pulls #300021
1 Concealed Closer 2214 DPS
1 Floor/Wall Stop PH760

Set No. 2.10: Holding Cell Doors

3 Hinges PH745
1 Lock 5022M-MSLH
1 Loop Pull #300021
1 Recessed Pull #300011
1 Food Pass with Lock 7017
1 Door Position Indicator #201030
1 Floor/Wall Stop PH760

END OF SECTION

SECTION 11454 **APPLIANCES**

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope Of The Work:

1. Furnish, install and connect to appropriate services, all appliances shown on the Drawings and as specified herein, including all accessories necessary for a complete and proper installation.
2. Contractor shall coordinate the positioning of and requirements for electrical and plumbing services, and coordinate installation clearances with the Casework contractor for proper fit in cabinets.

B. Related Work Specified Elsewhere:

1. Section 01020: Allowances

1.02 ALLOWANCE

A. Contractor shall provide an allowance in his base bid for Owner selected appliances only.

PART 2 - PRODUCTS

2.01 MATERIALS

A. All appliances shall be purchased and installed by the Contractor, unless otherwise noted.

Room 111 - Lounge:

1. General Electric Refrigerator, 24.8 cu.ft. with automatic ice maker, color as selected by Owner.
2. General Electric Microwave, color as selected by Owner.
3. General Electric Disposer.

Room 406 – Break Room:

1. General Electric Refrigerator, 24.8 cu.ft. with automatic ice maker, color as selected by Owner.
2. General Electric Microwave, color as selected by Owner.
3. General Electric Disposer.

END OF SECTION

SECTION 17800 **SECURITY AUTOMATION SYSTEM**

PART 1 - GENERAL

1.1 SUMMARY

A. Division 17 equipment shall be bid direct to the General Contractor, as a completely engineered package of security electronics.

B. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 1 Specifications, apply to this and other sections of Division 11, 16 and 17.

C. The Division 16 contractor shall be responsible for designing, providing, and installing the conduit raceway system, and the wire/cable system required for the Division 17-supplied material. This includes all on-site skilled labor, standard backboxes, junction boxes, pull boxes, cutting and patching. The Division 16 contractor shall be responsible for mounting and installing all custom back boxes, including camera housings being supplied by Division 17. The riser diagrams included in the security drawings are diagrammatic only and do not show specific routing of conduits. The actual routing of conduits is to be determined by the Division 16 contractor with consideration to the actual construction documents, while keeping in mind the requirements of Division 16 and coordinating with other trades.

D. All wire/cable provided by the Division 16 contractor shall be in conduit in accordance with Division 16 specifications. Cabling shall be continuous and shall not be spliced between the field-mounted device and the head-end equipment termination location(s). All cabling located underground and exterior to a building shall be UL listed for direct burial. The Division 16 contractor shall provide that all system wiring be color coded with labeling and coding as submitted and approved by shop drawings. Color coding and tagging shall be maintained throughout the system at all accessible locations to the cabling.

E. The Division 16 contractor shall perform an acceptance test of all installed cabling for the security systems. A report shall be submitted to the Division 17 integrator and the Architect. All low voltage cabling shall be tested for open circuit, ground fault or line-to-line shorts. The Division 16 contractor shall assist the Division 17 integrator in the final system checkout of all security systems. Cabling found defective during cable testing or upon final system checkout shall be replaced by the Division 16 Contractor at no cost to the project.

F. The Division 17 contractor shall be responsible for all Division 17 field device and head-end equipment installation and terminations.

G. If the head-end equipment is not installed in the control station (404) and installed in a mechanical room/chase, then the Division 16 contractor shall provide concrete “housekeeping” pads for Division 17-supplied equipment racks.

H. The Division 16 contractor shall be responsible for the coordination of door frames and hardware and their required conduit entries with Division 8 and Division 11. The Division 16 contractor shall coordinate equipment rough-in requirements and conduit

routings with the Division 11 contractor. The Division 17 integrator shall be responsible for coordinating with Division 8 and Division 11, the power and cabling requirements of all electric strikes, electro-mechanical locks, solenoids, door position indicators, or any other device associated and controlled/monitored by the Security Automation System.

I. Door locks or operators and door position indicating switches are to be furnished and installed by Division 8 for builder's hardware type and Division 11 for detention type.

1.2. SUBMITTALS

A. General: Submit the following in accordance with conditions of Contract and Division 1 specification sections.

B. Provide product data sheet(s) for each type of product specified within section 17000 through 17900 of these specifications. Data sheets showing multiple products or models shall be clearly marked identifying the specific product or model being proposed. Provide original data sheets only. Fax copies are not acceptable. Product data sheets shall include the specification section that the product is located in at the top of each data sheet. Product data sheets shall be provided in three ring binders with tabs identifying each specification section.

C. Shop drawings, detailing the Security Automation System including but not limited to the following:

1. All drawings shall be **drawn to scale** that detail racks, enclosures, and/or field devices. All devices shall be shown.
2. All Security Automation System drawings generated for this project shall be created utilizing AutoCAD LT 2005 or greater file format. Drawings shall be submitted on a minimum of 11" x 17" sheets of paper.
3. Drawings shall be provided for each field device detailing wiring and mounting instructions.
4. Point-to-point wiring data shall be provided, utilizing a combination of AutoCAD generated drawings and security control point schedules. The schedules shall be created with Microsoft Excel and shall cross-reference AutoCAD drawings as required. Schedules shall detail all equipment being provided and controlled/monitored by the Security Automation System. The schedules shall be organized according to different system functionality. Typical schedules shall include, but not be limited to, sections for cabling information, control locations, door hardware interface, intercom, paging, cameras, CCTV monitors, access control, duress, video visitation, etc. The drawings and schedules shall indicate the wiring of components and all connections to be made. Terminal connections in the equipment shall be numbered to correspond to drawings and schedules for use in making connections. All schedules shall be included with the product data sheets in three ring binders as previously described.
5. Drawings for the PLC configuration shall include model numbers of each component used and all required switch settings for proper operation and configuration of the system.
6. Provide all Graphical User Interface layouts. Layouts shall be created by the GUI configuration software and shall not consist of line drawings created by CAD programs. The Owner reserves the right to request the Division 17 integrator to make changes (during the submittal process) to the GUI layouts based on the Owner's policies and procedures, without incurring any additional cost to the Owner.
7. Drawings of equipment cabinet(s) or racks shall detail the arrangement of all components installed.
8. Provide power distribution and power loading spreadsheets.

9. Provide overall Security Automation System Riser, Intercom Riser, Ethernet Riser, Video Riser, and PLC System Riser diagrams. Drawings shall include all interconnecting wiring, cable types and sizing. Provide manufacturers wire type where required.
10. Provide fully dimensioned Graphic Control Panel layout drawings. (when specified – see contract documents)

D. Provide wiring diagrams, detailing wiring for power, signal and control, differentiating clearly between manufacturers installed wiring and field installed wiring. Identify terminals to facilitate installation, operation, and maintenance.

E. Submit a power system design spreadsheet of power loading for all DC power supply circuits, AC emergency circuits, AC UPS circuits, and AC normal power circuits required by the Security Automation System. The spreadsheet shall consist of each circuit, each device controlled by the Security Automation System with each device's steady state and in-rush load, and a loading summary of all device types for each circuit. This design requires coordination with other subcontractors who provide such equipment as (but not limited to) the door locks, lighting circuits, water solenoids, and any other device controlled by the Security Automation System.

1.3. OPERATIONS and MAINTENANCE MANUALS

A. General: Submit the following in accordance with conditions of Contract and Division 1 specification sections.

B. Provide maintenance data for materials and products, for inclusion in Operating and Maintenance Manual specified in Division 1 and Division 16 "Basic Electrical Requirements." Provide complete manual material concurrently with the system submittal. Manuals shall include product data sheets for all equipment, operational description of all equipment software for each system using easy-to-understand terminology, detailed instructions programming/configuration instructions for all systems and all software programs, troubleshooting, repair and preventative maintenance procedures. Manuals shall also include a complete list of PLC input and output points referencing the field device being controlled and/or monitored. Provide 3 updated final versions, in hard cover binders, of the manuals upon final system turnover. Hardware manuals may be provided via CD.

C. Provide a list of spare parts that are being provided as a requirement of the Division 17 specifications. Provide direct telephone numbers for service (normal & emergency).

D. A “software binder” shall be provided to the Owner upon final system turnover. This software binder shall consist of a three ring, hard cover binder that shall include at a minimum, the following items; all computer manufacturer’s backup/recovery discs, touch screen overlay software driver disc, software drivers for peripheral equipment (i.e. printers), GUI runtime software licenses and digital intercom administrator software (if provided). The software binder shall also include a CD backup of security automation system application files. Original passwords (provided at time of final completion) provided to access devices such as Security Management Server, GUI stations, digital video recording client software, etc., shall be provided in document format.

1.4 QUALITY ASSURANCE

A. Sole source responsibility: The Division 17 integrator shall perform all work necessary

for the complete and operational integration of all sections of Division 17. The integrator will assume all responsibility for the system and shall NOT subcontract or in any way use another company to develop, integrate or program any portion of the GUI and PLC systems. The integrator shall assume responsibility for compatibility for system components furnished.

B. Division 17 Integrator Qualifications: Engage an experienced systems integrator who is a certified Microsoft Certified Partner. This will establish an appropriate level of capability required when using Microsoft-compatible software.

C. The Division 17 integrator **shall not** use door control or power distribution boards. All door control and power distribution shall be accomplished using discreet din-rail mounted terminals, relays, and fuses.

D. Installer Qualifications: Engage an experienced installer who is a factory trained service representative to perform the work in this section.

E. UL Listing and Labeling: Unless specific equipment specified within the Division 17000 specifications is not listed or labeled by UL, provide components specified in the Division 17000 specifications that are listed and labeled by UL.

F. All work shall conform to the National Electrical Code (NEC) and to applicable National Fire Protection Association (NFPA) codes.

G. Compliance with Local Requirements: Comply with the applicable building code, state and local ordinances, and regulations and the requirements of the authority having jurisdiction.

PART – 2 PRODUCTS

2.1 MANUFACTURERS

A. Security Control Systems for this project shall be **TRENTECH only**. No other manufacturer, brand, or product will be acceptable.

Norment Security Group Inc., A CompuDyne Company
Trentech Security Electronics Division
Montgomery, Alabama; (334)-286-4280

2.2 EQUIPMENT

A. All major system hardware (including, but not limited to, programmable logic controllers and modules, graphical user interface (GUI) stations, door control equipment and intercom control equipment) shall be non-proprietary (commercially available off-the-shelf products using industry-standard communication protocols and open architecture).

B. The Security Automation System shall be comprised of one or more programmable logic controllers (PLCs). The PLC System shall receive discrete inputs, and through the use of an internal control logic program, control output relay operations and perform remote control functions via the GUI stations or graphic control panels.

1. The PLC shall be defined to be that which is regularly found in thousands of industrial environments controlling automated machinery and process controls.

2. Fire alarm, sound systems, environmental or custom manufactured and dedicated security control systems are not acceptable.
3. Further definition of the PLC requires the following:
   a. PLC must be manufactured in a facility that meets ISO 9000 and the ISO 9001 quality standards.
   b. All parts are stocked by distributors, not including the manufacturer or systems contractor, **in all 50 states**.
   c. Programming software support shall be available by 3rd party vendors without consultation of the systems integrator.

C. Unless otherwise noted in the specific Division 17 section, all Division 17 Security Automation Systems components will be 100% integrated with the programmable logic control system allowing seamless control and information gathering.

D. Provide all labor, equipment, materials, and supervision to install, program, calibrate, adjust, document, and test the total system as required herein and on the drawings.

E. Related Sections, The following sections contain requirements that relate to this section:
1. Related Sections: Division 8 Section "Builder's Hardware"
2. Division 11 Section "Security Hardware"
3. Division 16 Section "Basic Electrical Requirements"
4. Division 17 (All Sections)

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine conditions, with the Installer present, for compliance with requirements and other conditions affecting the performance of the intercommunication system work.

B. Do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. General: Install system in accordance with NFPA 70 and other applicable codes. Install equipment in accordance with manufacturer's written instructions.

B. Wiring Methods: Install wiring in raceway except consoles, desks, and counters.

C. Control Circuit Wiring: Install control circuits in accordance with NFPA 70 and as indicated. Provide number of conductors as recommended by system manufacturer to provide control functions indicated or specified.

D. Wiring within Enclosures: Provide adequate length of conductors. Bundle, lace, and train the conductors to terminal points with no excess. Provide and use lacing bars or tie wraps.

E. Splices, Taps, and Terminations: Make splices, taps and terminations on terminal strips in junction, pull, and outlet boxes, terminal cabinets and equipment enclosures.

F. Identification of Conductors and Cables: Use color coding of conductors or apply wire and cable marking tape to designate wires and cables so all media are identified in coordination with system wiring diagrams.

G. Weatherproofing: Provide weatherproof enclosures for items to be mounted outdoors or exposed to weather.

H. Repairs: Wherever walls, ceilings, floors, or other building finishes are cut for installation, repair, restore, and refinish to original appearance.

3.3 TESTING and DEMONSTRATION

A. The security automation system, excluding field devices, shall be assembled complete and 100% tested in the Division 17 integrator's facility prior to shipment of the headend equipment to site. This includes all applicable equipment specified in all sections of Division 17 and any other component deemed necessary by the Architect to be demonstrated. All software for all systems shall be programmed and tested. Provide a written checklist of every headend component and PLC input and output point tested with the appropriate test instrument.

B. The testing shall include attachment and proper operation of a typical field device to each and every point of field device connection. While testing is demonstrated to the Architect and Owner, the Architect may randomly choose field device connection points to be connected and operated. Because the system shall be 100% tested, these field devices shall operate properly.

C. The Division 17 integrator shall notify the Architect and Owner 30 days prior to shipment of the control system head-end equipment components that the test is ready and shall coordinate with them to organize the date of the demonstration. The integrator shall have made all design and functional modifications agreed to during the submittal process. The integrator shall provide a full demonstration of the security automation system with fully programmed control and interface software. The integrator shall coordinate with the Owner and the Architect to correct any problems and make minor changes to the GUI system layouts based on the Owners policies and procedures, prior to substantial completion.

3.4 GROUNDING

A. Provide equipment grounding connections for interconnections systems as indicated. Tighten connections to comply with tightening torque specified in UL Standard 486A to assure permanent and effective grounds.

3.5 FIELD QUALITY CONTROL

A. Division 17000 Integrator's Field Services: Provide services of a field technician employed by the integrator to supervise, as required in a technical support role, the field assembly and connection of components and the pre-testing, testing, and adjustment of the system.

B. Pre-testing: Upon completing installation of the system, align, adjust, and balance the system and perform complete pretesting. Determine, through pretesting, the conformance of the system to the requirements of drawings and specifications. Correct deficiencies observed in pretesting. Replace malfunctioning or damaged items with new and retest until satisfactory performance and conditions are achieved.

C. Testing: Upon completion of pretesting, notify the Architect a minimum of 10 days in

advance, of acceptance test performance schedule. It shall be the architect's option to have the integrator conduct tests in his or her presence. Provide a written record of test results. This process shall be known as the "system validation".

D. Operational Test: Perform an operational system test to verify conformance of system to these specifications.

E. Inspection: Make observations to verify that units and controls are properly labeled, and interconnecting wires and terminals are identified.

F. Retesting: Rectify deficiencies indicated by tests and completely retest work affected by such deficiencies at Division 17 integrator's expense. Verify by the system test that the total system meets the Specifications and complies with applicable standards.

4.6 COMMISSIONING

A. Train Owner's maintenance and operator personnel in the procedures and schedules involved in operating, programming, troubleshooting, servicing, and preventative maintenance of the system.

B. Schedule training with Owner through the Architect, with at least seven days advance notice.

C. Provide a professionally edited DVD training video to the Owner. DVDs of only recorded video during Owner training sessions shall not be acceptable. The DVD training video shall contain training modules for each specific portion of the system. Each training module shall cover all system operation and maintenance of the security automation system. Provide 3 copies of the DVD training video to the Owner upon substantial completion.

4.7 CLEANING and PROTECTION

A. Prior to final acceptance, clean system components and protect from damage and deterioration.

4.8 MAINTENANCE and SERVICE

A. Provide maintenance of systems and equipment for a period of 12 months commencing with Owner acceptance of the systems., The Division 17 integrator shall demonstrate that they maintain a service organization capable of providing all necessary service and inspection to the systems, including replacement parts, and capability of making additions or changes to the software systems used in the project. The guarantee shall include the entire Division 17000 scope of work including all equipment and software. The integrator shall use technicians that are factory trained by the manufacturers of the Security Automation System components.

B. During the warranty period, all service (including equipment, labor, travel, expenses, etc.) is to be provided during normal working hours at no cost to the Owner. On-site service must also be made available at times other than normal working hours to the Owner and shall be charged by the integrator's service representatives at current rates of labor and travel. The integrator shall provide the Owner with a manned, 24-hour phone number for service. The integrator shall not provide a pager number for a 24-hour phone service number. The integrator shall provide the Owner a phone response within 4

business hours of receipt of service call. The integrator shall provide an on-site response time of 24 business hours for system critical items during regular business hours. Critical item components shall include PLC system components, GUI stations, digital video equipment, intercom head-end equipment, and uninterruptible power supplies.

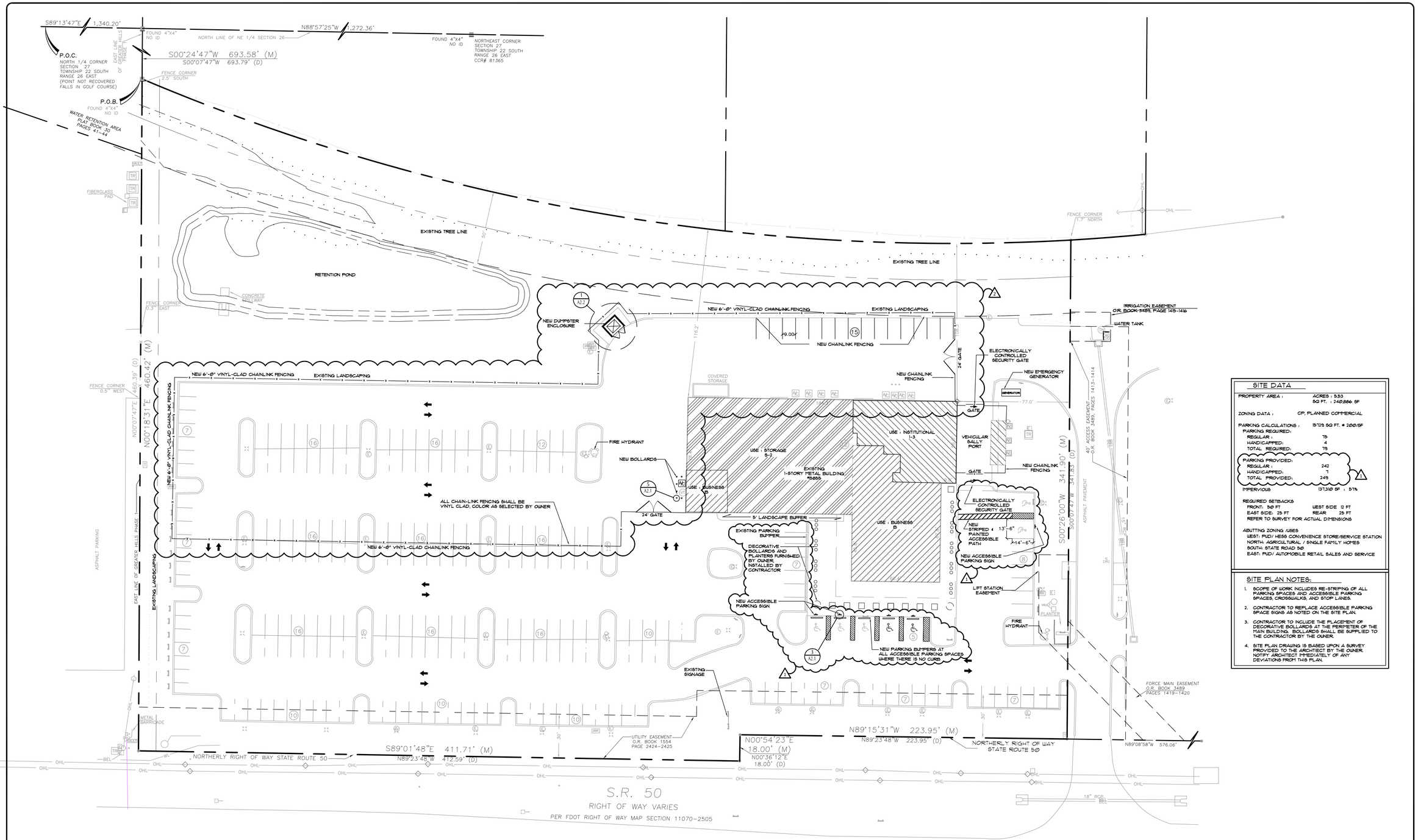
C. The guarantee shall exclude acts of God, vandalism, physical abuse or operator misuse. The integrator shall not be required to provide or diagnose problems associated with door switch or lock problems without additional reimbursement. The integrator shall not be responsible for any existing field devices/equipment that is not functional for whatever reason.

D. Basic Services: Provide one routine maintenance visit 6 months prior to and a second visit at the end of the warranty period at a time coordinated with the Owner. Adjust and replace defective parts and components with original manufacturer's replacement parts, components, and supplies.

E. Additional Services: Perform services within the above 12-month period not classified as routine maintenance or as warranty work as described in Division 1 Section "Warranties and Bonds" when authorized in writing. Compensation for additional services must be agreed upon in writing prior to performing services.

F. Renewal of Maintenance Service Contract: No later than 60 days prior to the expiration of the maintenance services contract, deliver to the Owner a proposal to provide contract maintenance and repair services for an additional one-year term. Owner will be under no obligation to accept maintenance service proposal.

END OF SECTION



SITE DATA

PROPERTY AREA :	ACRES : 5.53 SQ FT. : 240,886 SF
ZONING DATA :	CP, PLANNED COMMERCIAL
PARKING CALCULATIONS :	15,729 SQ FT. @ 200/SF
PARKING REQUIRED:	
REGULAR :	79
HANDICAPPED:	4
TOTAL REQUIRED:	79
PARKING PROVIDED:	
REGULAR :	242
HANDICAPPED:	7
TOTAL PROVIDED:	249
IMPERVIOUS	137,312 SF : 57%

REQUIRED SETBACKS
FRONT: 50 FT — WEST SIDE 12 FT
EAST SIDE: 25 FT — REAR 25 FT
REFER TO SURVEY FOR ACTUAL DIMENSIONS

ABUTTING ZONING /USES
WEST: PUD/ HB56 CONVENIENCE STORE/SERVICE STATION
NORTH: AGRICULTURAL / SINGLE FAMILY HOMES
SOUTH: STATE ROAD 50
EAST: PUD/ AUTOMOBILE RETAIL SALES AND SERVICE

SITE PLAN NOTES:

1. SCOPE OF WORK INCLUDES RE-STRIPING OF ALL PARKING SPACES AND ACCESSIBLE PARKING SPACES, CROSSWALKS, AND STOP LANES.
2. CONTRACTOR TO REPLACE ACCESSIBLE PARKING SPACE SIGNS AS NOTED ON THE SITE PLAN.
3. CONTRACTOR TO INCLUDE THE PLACEMENT OF DECORATIVE BOLLARDS AT THE PERIMETER OF THE MAIN BUILDING. BOLLARDS SHALL BE SUPPLIED TO THE CONTRACTOR BY THE OWNER.
4. SITE PLAN DRAWING IS BASED UPON A SURVEY PROVIDED TO THE ARCHITECT BY THE OWNER. NOTIFY ARCHITECT IMMEDIATELY OF ANY DEVIATIONS FROM THIS PLAN.

LEGEND & ABBREVIATIONS

O.R. = OFFICIAL RECORDS	= ELECTRIC FIXTURE	= CONCRETE MONUMENT	= MANHOLE
= FLAT GRATE INLET	= WATER SPIGOT	-X- = CHAIN LINK FENCE	= NON-TRAFFIC SIGN
= MITERED END SECTION	= VENT	= FIRE HYDRANT	= TRAFFIC SIGN
= POST	= TANK	OHL = OVERHEAD LINE	= ELECTRIC SERVICE METER
(M) = MEASURED	= VAULT	= GAS VALVE	= WELL
(D) = DEED	= TREE LINE	= IRON PIPE	= WATER METER
ID = IDENTIFICATION	= IRRIGATION VALVE BOX	= IRON ROD	= WATER VALVE
ELEV = ELEVATION	= HANDICAP PARKING	= LIGHT POLE	= AIR CONDITIONING UNIT
= TRANSFORMER ON SLAB	= BREAK LINE	= POWER POLE	= ELECTRIC SERVICE METER

HATCH PATTERN LEGEND

- DENOTES EASEMENT
- DENOTES S-2 OCCUPANCY
- DENOTES I-3 OCCUPANCY
- DENOTES B BUSINESS OCCUPANCY

SITE PLAN

SCALE 1" = 30'-0"

NORTH

DATE	
1 BLDG. DEPT. COMMENTS	5-7-09
2 GENERAL	5-26-09

REVISIONS

LAKE COUNTY SHERIFF'S OFFICE
- SOUTH LAKE DISTRICT-
CLERMONT, FLORIDA

- AN INTERIOR TENANT IMPROVEMENT-

GatorSktch architects, incorporated
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Web Site: www.gatorsktcharchitects.com

Registration Seal

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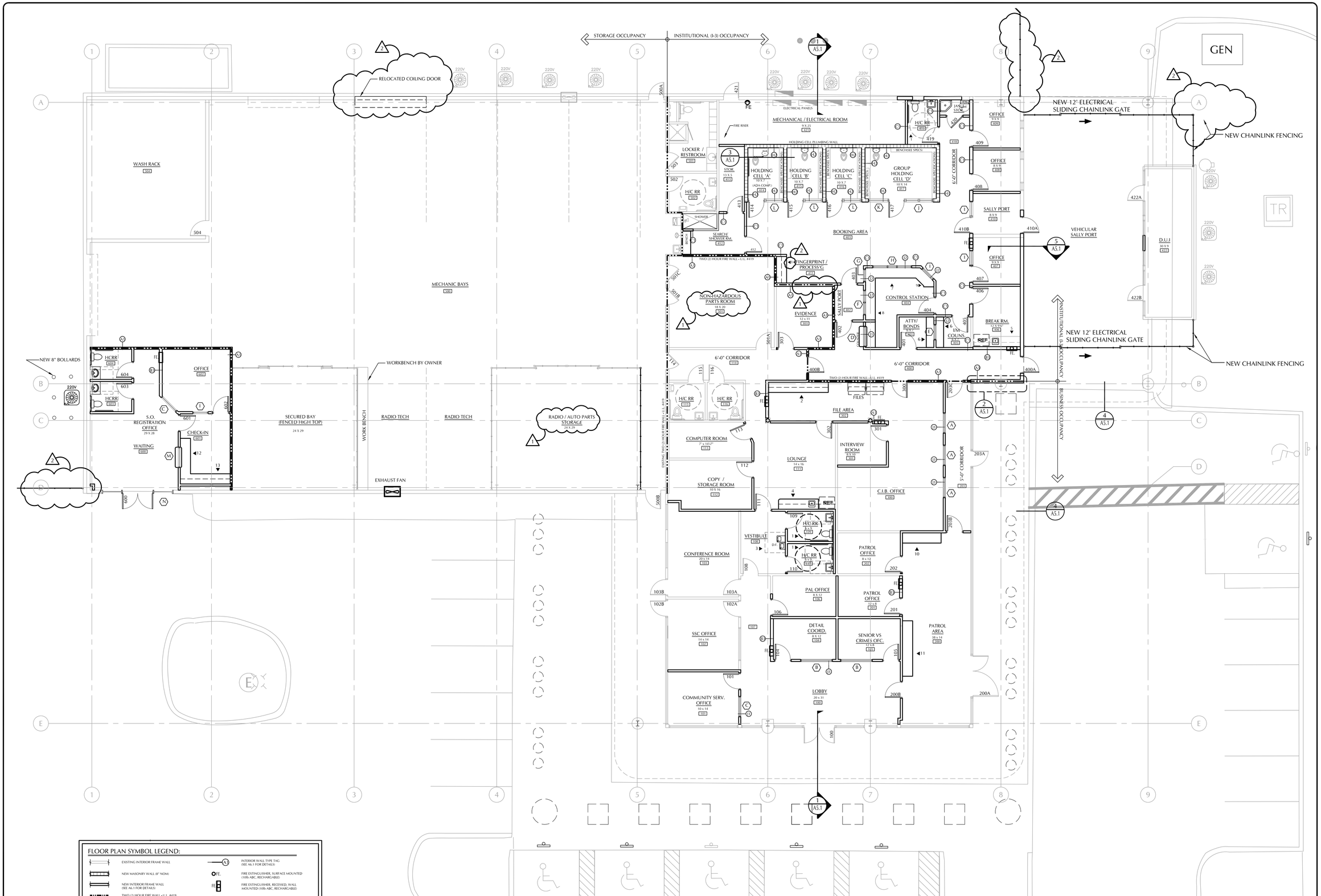
SITE PLAN

A2.1

JOB #: GA-08-030

ISSUE DATE 3/23/09



FLOOR PLAN SYMBOL LEGEND:

	EXISTING INTERIOR FRAME WALL	A3	INTERIOR WALL TYPE TAG (SEE A6.1 FOR DETAILS)
	NEW MASONRY WALL (8" NOM)	FE.	FIRE EXTINGUISHER, SURFACE MOUNTED (10lb ABC, RECHARGABLE)
	NEW INTERIOR FRAME WALL (SEE A6.1 FOR DETAILS)	FE	FIRE EXTINGUISHER, RECESSED, WALL MOUNTED (10lb ABC, RECHARGABLE)
	TWO (2) HOUR FIRE WALL - U.L. #419 (SEE A6.1 FOR DETAILS)	1	WINDOW REFERENCE TAG (SEE SCHEDULE)
	EXISTING TWO (2) HOUR FIRE WALL - U.L. #419 (SEE A6.1 FOR DETAILS)	100	ROOM / AREA DESIGNATION TAG (SEE A6.1 FOR FINISH SCHEDULE)

FLOOR PLAN

SCALE 1/8" = 1'-0"

NORTH

DATE	REVISIONS
5-7-09	BLDG. DEPT. COMMENTS
5-26-09	GENERAL

LAKE COUNTY SHERIFF'S OFFICE
- SOUTH LAKE DISTRICT-
CLERMONT, FLORIDA

- AN INTERIOR TENANT IMPROVEMENT-

GatorSktch architects, incorporated
AA26000515
723 MONTROSE ST. CLERMONT, FL 34711
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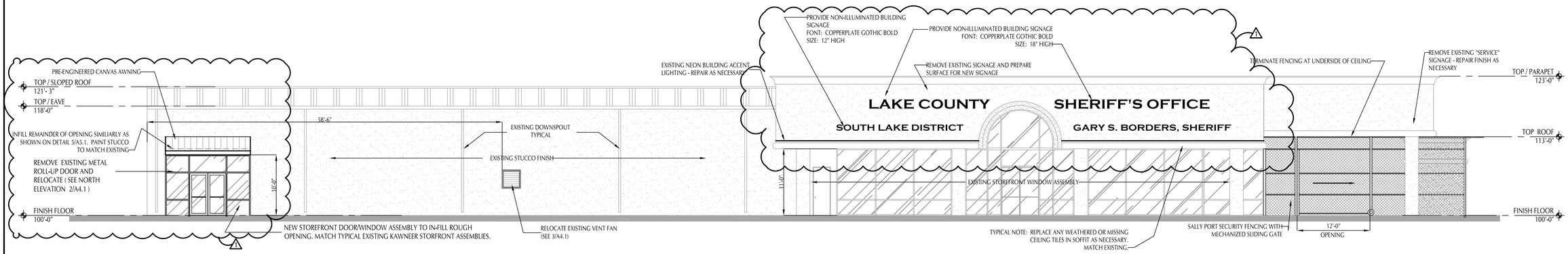
FLOOR PLAN

A3.2

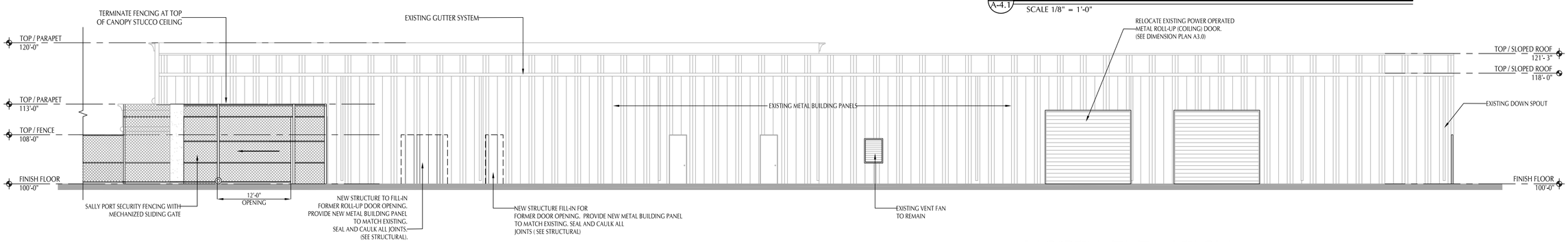
JOB #: GA-08-030

ISSUE DATE 3/23/09



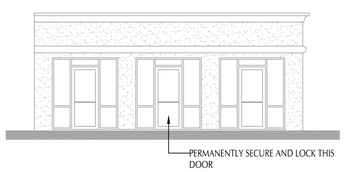
1 A-4.1 SOUTH ELEVATION

SCALE 1/8" = 1'-0"



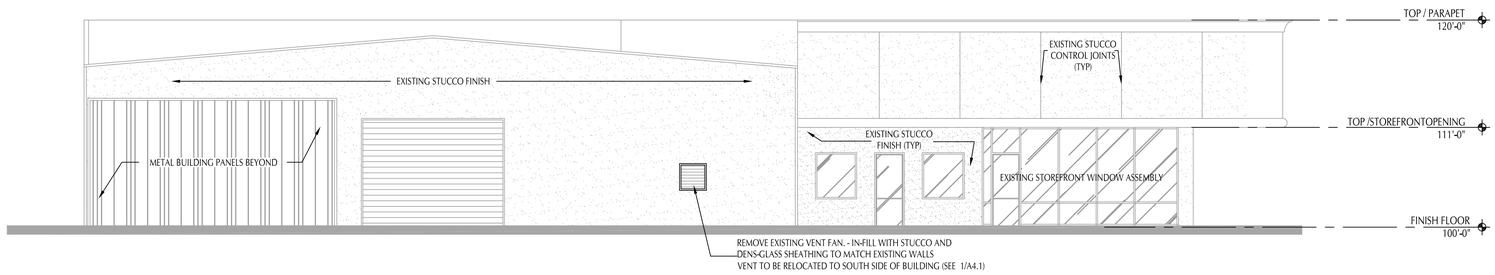
2 A-4.1 NORTH ELEVATION

SCALE 1/8" = 1'-0"



5 A-4.1 WEST INTERIOR ELEVATION @ SALLY PORT CANOPY

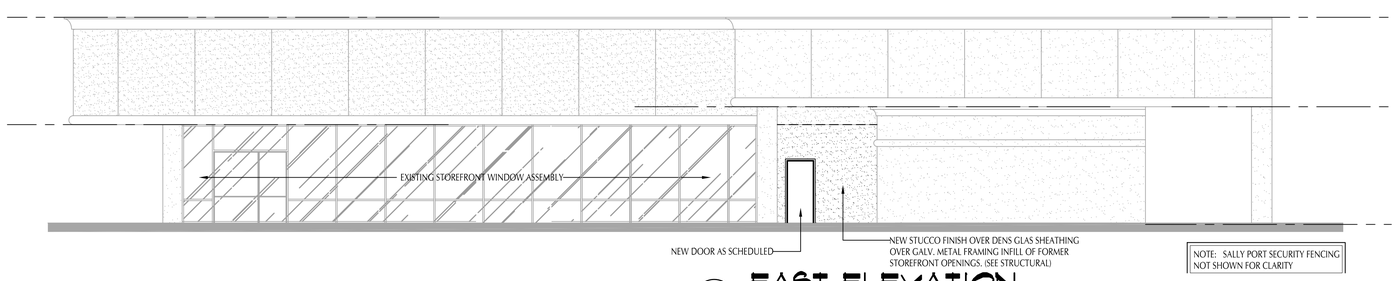
SCALE 1/8" = 1'-0"



3 A-4.1 WEST ELEVATION

SCALE 1/8" = 1'-0"

GENERAL NOTE: THE SCOPE OF WORK SHALL INCLUDE THE SURFACE PREPARATION, CLEANING, PRIMING, AND PAINTING OF THE ENTIRE EXTERIOR OF THE BUILDING. PAINT COLORS SHALL BE SELECTED BY THE OWNER. (SEE SPECIFICATIONS)



4 A-4.1 EAST ELEVATION

SCALE 1/8" = 1'-0"

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5-26-09	GENERAL

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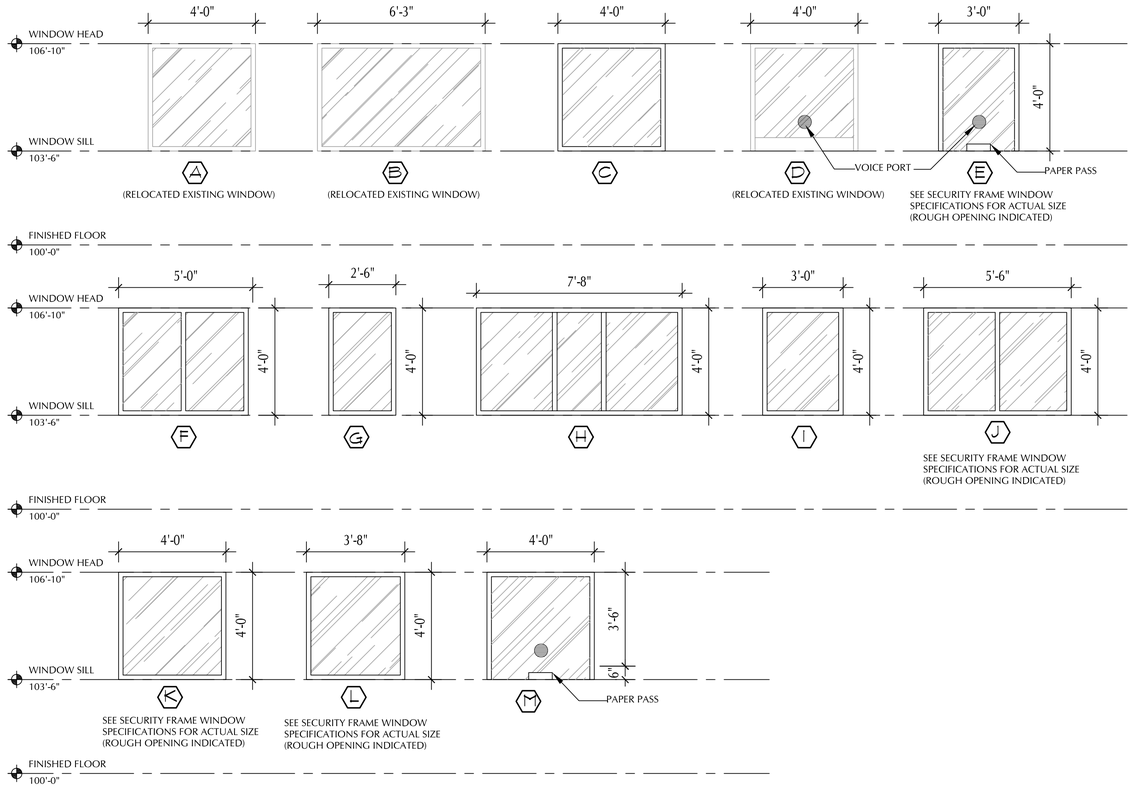
EXTERIOR ELEVATIONS

A4.1

JOB #: GA-08-030

ISSUE DATE 3/23/09

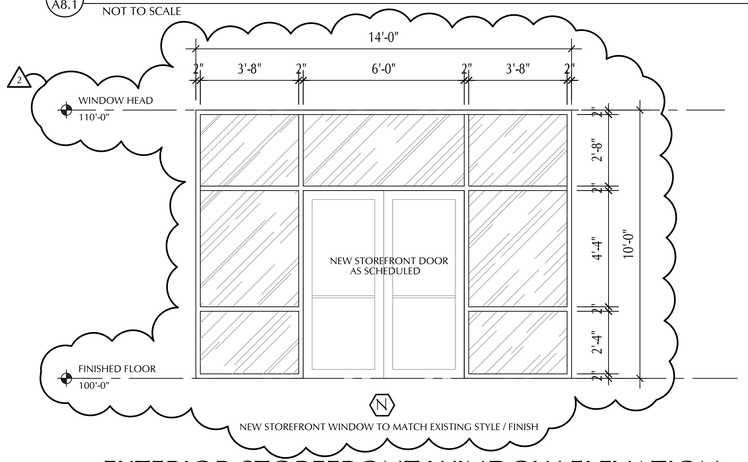


INTERIOR HOLLOW METAL WINDOW FRAME ELEVATIONS

2 / A8.1

NOT TO SCALE

NOTE 2" FRAMES TYPICAL



EXTERIOR STOREFRONT WINDOW ELEVATION

3 / A8.1

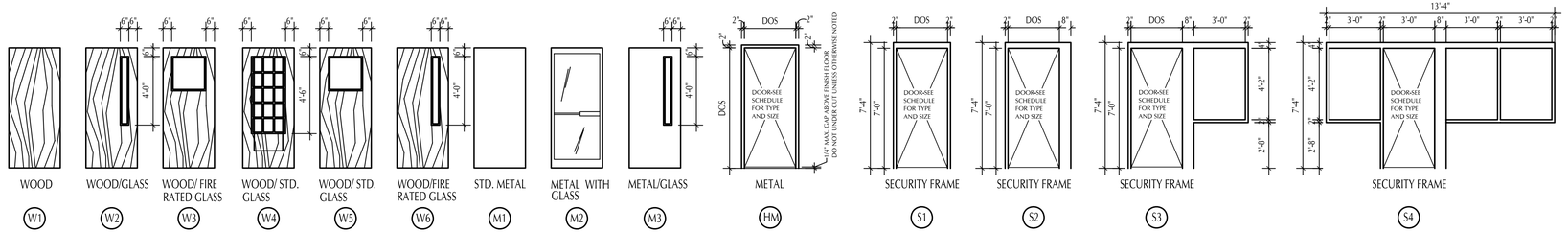
NOT TO SCALE

DOOR SCHEDULE

NO.	DOOR	FRAME	TYPE	FIRE RATING	LABEL	REMARKS
*100	3'-0" x 7'-0" x 2"	AL	-			EXISTING STOREFRONT DOUBLE DOOR TO REMAIN
101	3'-0" x 7'-0" x 2"	AL	W1			RE-USE EXISTING INTERIOR STOREFRONT DOOR
*102A	3'-0" x 6'-8" x 1-3/4"	HM	-			EXISTING WOOD DOOR TO REMAIN
*102B	3'-0" x 7'-0" x 2"	AL	-			EXISTING STOREFRONT DOOR TO REMAIN
*103A	3'-0" x 6'-8" x 1-3/4"	HM	-			EXISTING WOOD DOOR TO REMAIN
*103B	3'-0" x 7'-0" x 2"	AL	-			EXISTING STOREFRONT DOOR TO REMAIN
104	3'-0" x 6'-8" x 1-3/4"	HM	W1			
105	3'-0" x 6'-8" x 1-3/4"	HM	W1			
106	3'-0" x 6'-8" x 1-3/4"	HM	W1			
*108	3'-0" x 6'-8" x 1-3/4"	HM	-			
109	3'-0" x 6'-8" x 1-3/4"	HM	W1			
110	3'-0" x 6'-8" x 1-3/4"	HM	W1			
111	3'-0" x 6'-8" x 1-3/4"	HM	W4			
*112	3'-0" x 6'-8" x 1-3/4"	HM	-			RE-USE EXISTING INTERIOR WOOD DOOR
*113	3'-0" x 6'-8" x 1-3/4"	HM	-			RE-USE EXISTING INTERIOR WOOD DOOR
*114	3'-0" x 6'-8" x 1-3/4"	HM	-	90 MIN.	'B'	EXISTING FIRE RATED DOOR
*115	3'-0" x 6'-8" x 1-3/4"	HM	-			EXISTING WOOD DOOR TO REMAIN
*116	3'-0" x 6'-8" x 1-3/4"	HM	-			EXISTING WOOD DOOR TO REMAIN
*200A	ODD SIZE (SEE REMARKS)	AL	-			EXISTING PAIR 3'-0" & 5'-0" X 7'-0" X 2" STOREFRONT DOORS TO REMAIN
200B	3'-0" x 6'-8" x 1-3/4"	HM	W1			(deleted)
201	3'-0" x 6'-8" x 1-3/4"	HM	W1			
202	3'-0" x 6'-8" x 1-3/4"	HM	W1			
*203A	3'-0" x 7'-0" x 2"	AL				
203B	3'-0" x 6'-8" x 1-3/4"	HM	W2			
203C	3'-0" x 6'-8" x 1-3/4"	HM	W6	90 MIN.	'B'	NEW FIRE RATED DOOR
300	3'-0" x 6'-8" x 1-3/4"	HM	W1	90 MIN.	'B'	NEW FIRE RATED DOOR
301	3'-0" x 6'-8" x 1-3/4"	HM	W2			
302	3'-0" x 6'-8" x 1-3/4"	HM	W1			
303	3'-0" x 6'-8" x 1-3/4"	HM	W1			
400A	3'-0" x 7'-0" x 2"	AL	M2			
400B	3'-0" x 6'-8" x 1-3/4"	HM	W1	90 MIN.	'B'	NEW FIRE RATED DOOR
401	3'-0" x 6'-8" x 1-3/4"	HM	W1			
402						SECURITY TYPE DOOR (SEE SPECIFICATIONS)
403						SECURITY TYPE DOOR (SEE SPECIFICATIONS)
404	3'-0" x 6'-8" x 1-3/4"	HM	W1			
405	3'-0" x 6'-8" x 1-3/4"	HM	W5			
406	3'-0" x 6'-8" x 1-3/4"	HM	W4			
407	3'-0" x 6'-8" x 1-3/4"	HM	W1			
408	3'-0" x 6'-8" x 1-3/4"	HM	W1			
409	3'-0" x 6'-8" x 1-3/4"	HM	W1			
410A						SECURITY TYPE DOOR (SEE SPECIFICATIONS)
410B						SECURITY TYPE DOOR (SEE SPECIFICATIONS)
412	3'-0" x 6'-8" x 1-3/4"	HM	W1			
413	3'-0" x 6'-8" x 1-3/4"	HM	W1			
414						SECURITY TYPE DOOR (SEE SPECIFICATIONS)
415						SECURITY TYPE DOOR (SEE SPECIFICATIONS)
416						SECURITY TYPE DOOR (SEE SPECIFICATIONS)
417						SECURITY TYPE DOOR (SEE SPECIFICATIONS)
419	3'-0" x 6'-8" x 1-3/4"	HM	W1			
420	3'-0" x 6'-8" x 1-3/4"	HM	W1			
*421	3'-0" x 6'-8" x 1-3/4"	HM				
*422A	3'-0" x 7'-0" x 2"	AL				
*422B	3'-0" x 7'-0" x 2"	AL				
*500A	3'-0" x 6'-8" x 1-3/4"	HM				
*500B	3'-0" x 6'-8" x 1-3/4"	HM				
*501A	3'-0" x 6'-8" x 1-3/4"	HM				
*501B	3'-0" x 6'-8" x 1-3/4"	HM		90 MIN.	'B'	EXISTING FIRE RATED DOOR
*501C	3'-0" x 6'-8" x 1-3/4"	HM		90 MIN.	'B'	EXISTING FIRE RATED DOOR
*502	3'-0" x 6'-8" x 1-3/4"	HM		90 MIN.	'B'	EXISTING FIRE RATED DOOR
*503	3'-0" x 6'-8" x 1-3/4"	HM		90 MIN.	'B'	EXISTING FIRE RATED DOOR
*504	3'-0" x 6'-8" x 1-3/4"	HM				
600	PAIR 3'-0" x 7'-0" x 2"	AL	M2			STOREFRONT TO MATCH EXISTING
601	3'-0" x 6'-8" x 1-3/4"	HM	W1			
602	3'-0" x 6'-8" x 1-3/4"	HM	W1			
603	3'-0" x 6'-8" x 1-3/4"	HM	W1			
604	3'-0" x 6'-8" x 1-3/4"	HM	W1			

NOTES:

DOORS NOTED WITH AN ASTERISK (*), AND SHADED ARE EXISTING DOORS



DOOR AND FRAME TYPES & ELEVATIONS

1 / A8.1

NOT TO SCALE

DATE	
5-7-09	BLDG. DEPT. COMMENTS
5-26-09	GENERAL

REVISIONS

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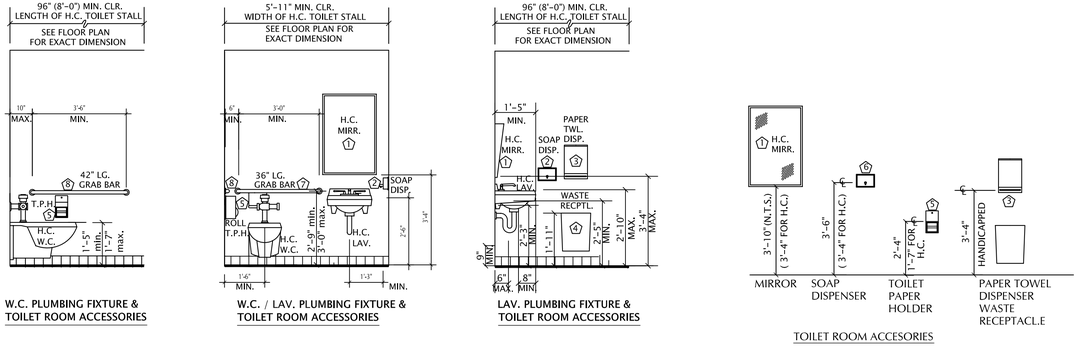
DOOR / WINDOW SCHEDULES & ELEVATIONS

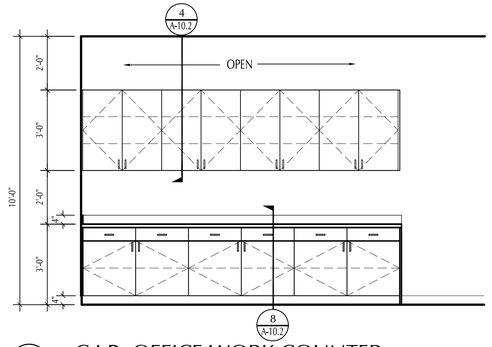
A8.1

JOB #: GA-08-030

ISSUE DATE 3/23/09



1 A10.1 TYPICAL ACCESSIBLE TOILET ROOM DETAILS — ROOMS 109, 110, 419
SCALE: 3/8" = 1'-0"



2 A10.1 C.I.B. OFFICE WORK COUNTER — ROOM 302
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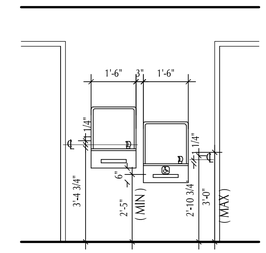

3 A10.1 ACCESSIBLE DRINKING FOUNTAINS — ROOM 108
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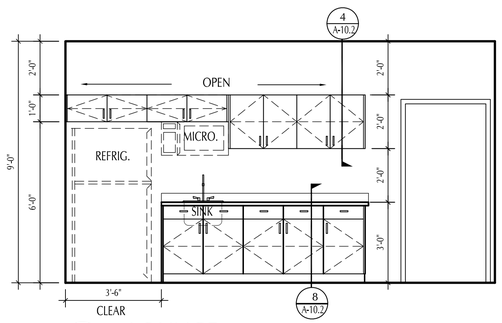

4 A10.1 LOUNGE — ROOM 111
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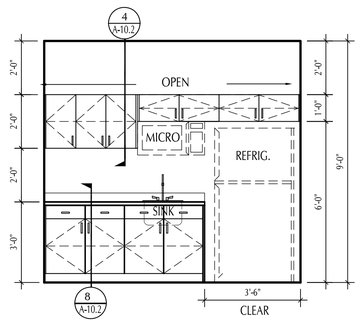
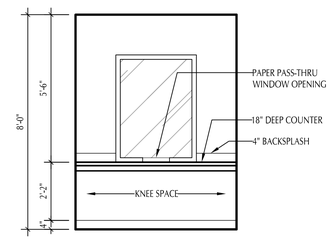
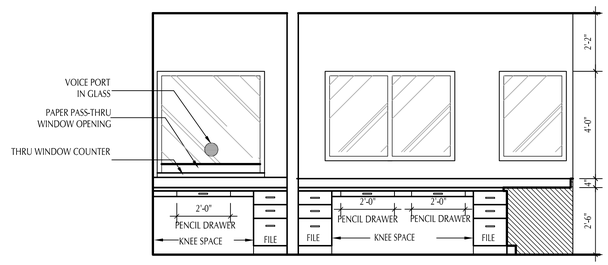


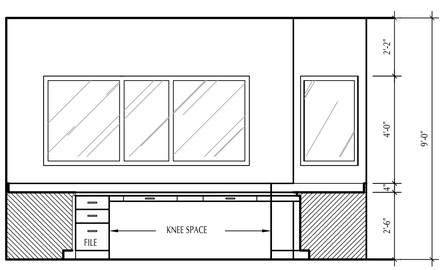
5 A10.1 BREAK ROOM — ROOM 406
SCALE: 3/8" = 1'-0"



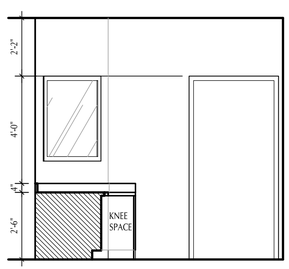
6 A10.1 ATTORNEY / INMATE COUNSELING — ROOMS 401, 405
SCALE: 3/8" = 1'-0"



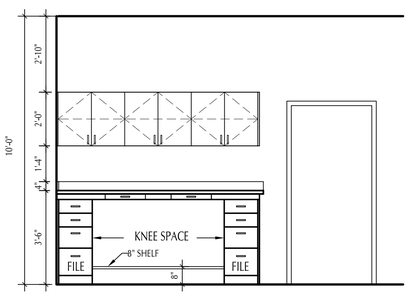
7 A10.1 CONTROL STATION — ROOM 404
SCALE: 3/8" = 1'-0"



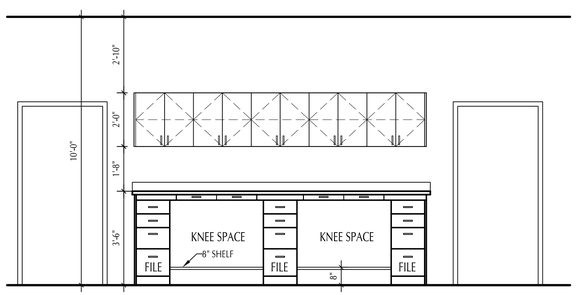
8 A10.1 CONTROL STATION — ROOM 404
SCALE: 3/8" = 1'-0"



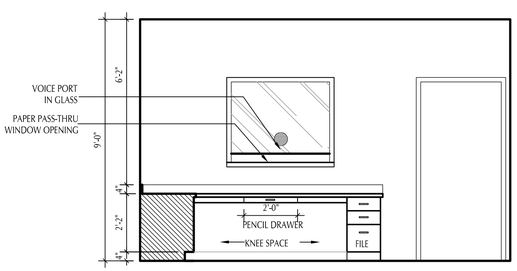
9 A10.1 CONTROL STATION — ROOM 404
SCALE: 3/8" = 1'-0"



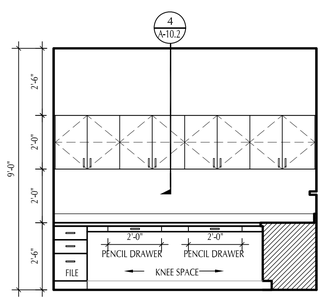
10 A10.1 PATROL AREA — ROOM 402
SCALE: 3/8" = 1'-0"



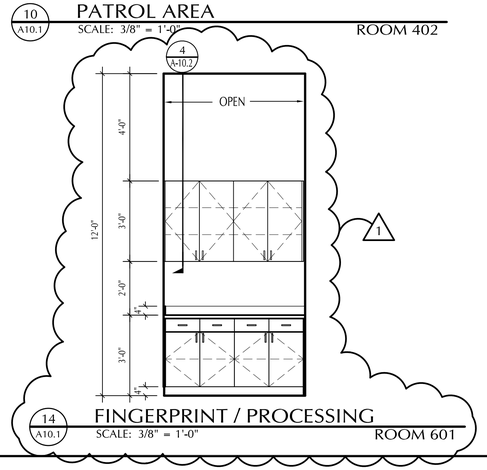
11 A10.1 PATROL AREA — ROOM 200
SCALE: 3/8" = 1'-0"



12 A10.1 CHECK-IN REGISTRATION — ROOM 601
SCALE: 3/8" = 1'-0"



13 A10.1 CHECK-IN REGISTRATION — ROOM 601
SCALE: 3/8" = 1'-0"



14 A10.1 FINGERPRINT / PROCESSING — ROOM 601
SCALE: 3/8" = 1'-0"

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5-26-09	GENERAL

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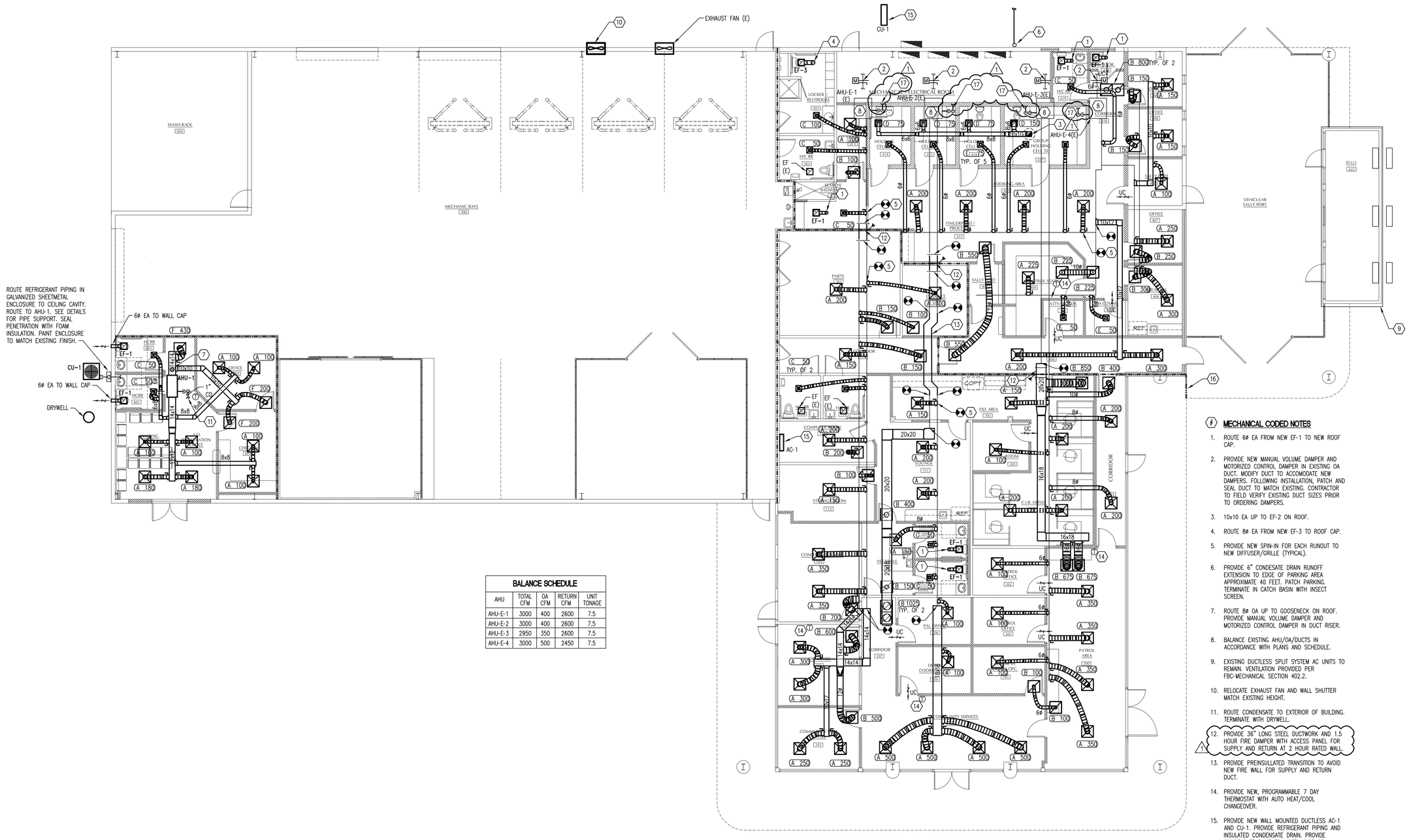
INTERIOR ELEVATIONS

A10.1

JOB #: GA-08-030

ISSUE DATE 3/23/09



BALANCE SCHEDULE				
AHU	TOTAL CFM	OA CFM	RETURN CFM	UNIT TONAGE
AHU-E-1	3000	400	2600	7.5
AHU-E-2	3000	400	2600	7.5
AHU-E-3	2950	350	2600	7.5
AHU-E-4	3000	500	2450	7.5

MECHANICAL FLOOR PLAN

SCALE 1/8" = 1'-0"

MECHANICAL CODED NOTES

1. ROUTE 6ø EA FROM NEW EF-1 TO NEW ROOF CAP.
2. PROVIDE NEW MANUAL VOLUME DAMPER AND MOTORIZED CONTROL DAMPER IN EXISTING OA DUCT. MODIFY DUCT TO ACCOMODATE NEW DAMPERS. FOLLOWING INSTALLATION, PATCH AND SEAL DUCT TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY EXISTING DUCT SIZES PRIOR TO ORDERING DAMPERS.
3. 10x10 EA UP TO EF-2 ON ROOF.
4. ROUTE 8ø EA FROM NEW EF-3 TO ROOF CAP.
5. PROVIDE NEW SPIN-IN FOR EACH RUNOUT TO NEW DIFFUSER/GRILLE (TYPICAL).
6. PROVIDE 6" CONDESATE DRAIN RUNOFF EXTENSION TO EDGE OF PARKING AREA APPROXIMATE 40 FEET. PATCH PARKING. TERMINATE IN CATCH BASIN WITH INSECT SCREEN.
7. ROUTE 8ø OA UP TO GOOSENECK ON ROOF. PROVIDE MANUAL VOLUME DAMPER AND MOTORIZED CONTROL DAMPER IN DUCT RISER.
8. BALANCE EXISTING AHU/OA/DUCTS IN ACCORDANCE WITH PLANS AND SCHEDULE.
9. EXISTING DUCTLESS SPLIT SYSTEM AC UNITS TO REMAIN. VENTILATION PROVIDED PER FBC-MECHANICAL SECTION 402.2.
10. RELOCATE EXHAUST FAN AND WALL SHUTTER MATCH EXISTING HEIGHT.
11. ROUTE CONDENSATE TO EXTERIOR OF BUILDING. TERMINATE WITH DRYWELL.
12. PROVIDE 36" LONG STEEL DUCTWORK AND 1.5 HOUR FIRE DAMPER WITH ACCESS PANEL FOR SUPPLY AND RETURN AT 2 HOUR RATED WALL. (1)
13. PROVIDE PREINSULLATED TRANSITION TO AVOID NEW FIRE WALL FOR SUPPLY AND RETURN DUCT.
14. PROVIDE NEW, PROGRAMMABLE 7 DAY THERMOSTAT WITH AUTO HEAT/COOL CHANGEOVER.
15. PROVIDE NEW WALL MOUNTED DUCTLESS AC-1 AND CU-1. PROVIDE REFRIGERANT PIPING AND INSULATED CONDENSATE DRAIN. PROVIDE CONDENSATE PUMP TO NORTH SIDE OF BUILDING AND TIE INTO CONDENSATE DRAIN SYSTEM.
16. IN ACCORDANCE WITH FBC-2007, SECTION 408.8, BREAKABLE WINDOWS ARE INSTALLED IN GROUP I-3 AREA. AREAS ARE NOT CONSIDERED WINDOWLESS, SMOKE CONTROL NOT REQUIRED.
17. EXISTING TRAPPED CONDENSATE DRAIN LINE TO REMAIN. (1)

REVISIONS		DATE
1	COMMENT RESPONSES	5/7/09

AN INTERIOR TENANT IMPROVEMENT FOR
LAKE COUNTY SHERIFF SUBSTATION
CLERMONT, FLORIDA

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M2.1

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"To the best of the engineer's knowledge, these plans and specifications comply with the 2007 Florida Building Code with 2009 supplement and the Florida Fire Prevention Code (2007 Edition) all all local codes and ordinances."

GENERAL NOTES:

1. ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS AND PRACTICES LISTED HEREIN, AND THEIR RESPECTIVE DATES ARE FURNISHED AS THE MINIMUM LATEST REQUIREMENTS.
   1. STATE OF FLORIDA.
   2. LAKE COUNTY.
   3. LIFE SAFETY CODE – NFPA 101 (2006).
   4. UNDERWRITERS LABORATORIES, INC. PUBLICATIONS
   5. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).
   6. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).
   7. NATIONAL ELECTRICAL CODE – NFPA 70 (2005).
   8. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE).
   9. NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).
   10. INTERNATIONAL POWER CABLE ENGINEER'S ASSOCIATION (IPCEA).
   11. NATIONAL ELECTRICAL SAFETY CODE (NBS HANDBOOK 81)
   12. REQUIREMENTS OF LOCAL POWER CORPORATION.
   13. FLORIDA BUILDING CODE 2007, WITH 2009 SUPPLEMENTS.
   14. THE AMERICANS WITH DISABILITIES ACT (ADA)
   15. FLORIDA ACCESSIBILITY CODE.
   16. NATIONAL FIRE ALARM CODE–NFPA 72. (2002)
   17. ALL LOCAL CODES AND ORDINANCES.
   18. FLORIDA FIRE PREVENTION CODE 2007.
2. REFER TO RELATED ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS FOR RELATED INFORMATION.
3. REFER TO THE SPECIFICATIONS FOR INFORMATION NOT SHOWN ON THE DRAWINGS.
4. E.C. SHALL REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR THE REQUIREMENTS ASSOCIATED WITH WIRING AND CONNECTION OF INTERLOCKING AND CONTROLS OF MECHANICAL UNITS AND THERMOSTAT LOCATIONS.
5. COORDINATE OUTLET BOX LOCATIONS WITH MASONRY TO MINIMIZE CUTTING OF BRICK OR BLOCK.
6. ALL MOUNTING HEIGHTS TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED. VERIFY ALL OUTLET LOCATIONS ON THE JOB PRIOR TO ROUGH–IN.
7. CONDUIT RUN WITH CONDUCTORS AS INDICATED & GROUND WIRE SIZED PER N.E.C 250–122. CONDUIT SIZE AS REQUIRED.
8. WHEN INCREASED CONDUCTOR SIZE ARE SHOWN ON THE PLANS. THE LARGER CONDUCTOR SIZE SHALL BE USED THROUGHOUT THE LENGTH OF THE CIRCUIT, INCLUDING NEUTRAL AND GROUND.
9. EACH DATA, TELEPHONE, VIDEO OR OTHER SYSTEMS OUTLET REQUIRES 1" C. WITH PULL ROPE STUBBED 6" ABOVE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE NOTED ON PLANS. CONDUITS STUBBED UP ABOVE CEILINGS SHALL BE TURNED OUT 90°. PROVIDE INSULATED BUSHINGS ON ALL CONDUITS. LABEL CONDUIT TO IDENTIFY ITS INTENDED USE (IE: TELEPHONE, DATA, ETC..).
10. EACH BRANCH CIRCUIT RACEWAY SHALL HAVE A FULL LENGTH EQUIPMENT GROUND CONDUCTOR. FOR ISOLATED GROUND CIRCUITS, PROVIDE AN ISOLATED GROUND CONDUCTOR THROUGHOUT THE LENGTH OF THE CIRCUIT IN ADDITION TO THE PHASE, NEUTRAL AND EQUIPMENT GROUND CONDUCTORS.
11. PROVIDE 18" LONG (MIN). CONDUIT SLEEVES THRU ALL WALLS WHERE CABLES ARE INDICATED OR REQUIRED TO PASS THRU WALLS. PROVIDE BUSHINGS ON BOTH ENDS. SIZE CONDUIT FOR CABLES INSTALLED. AT CABLE TRAYS, PROVIDE ONE 4" CONDUIT SLEEVE FOR EACH 4" WIDTH OF CABLE TRAY. MAXIMUMS SHALL BE.
    2"C = 10 CABLES
    2 1/2"C = 20 CABLES
    3"C = 30 CABLES
    4"C = 50 CABLES
12. ALL BRANCH CIRCUIT HOMERUNS SHALL BE ROUTED IN 3/4"C. MINIMUM.
13. LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
14. RECEPTACLES SHALL BE LOCATED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED. ABOVE–COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO CENTERLINE OF DEVICE.
15. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED, WITH APPROPRIATE NEMA ENCLOSURE RATING.
    A. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC 110.
    B. THE EXCLUSIVELY–DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC 110.
20. WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE–RESISTIVE ASSEMBLIES, (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
    A. ALL ELECTRICAL BOXES SHALL BE METALLIC.
    B. BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
    C. BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
    D. ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
    E. PROVIDE A WALL AROUND OUTLETS LARGER THAT 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.
    F. THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
    G. OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE–RESISTIVE ASSEMBLIES SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
    H. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
    I. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
21. ALL DEVICES SHALL BE MOUNTED VERTICAL, UNLESS OTHERWISE NOTED.
22. ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP.
23. ALL BRANCH CIRCUIT CONDUITS SHALL CONTAIN A MINIMUM OF (2) #12AWG WIRES, PLUS A MINIMUM OF #12AWG GROUND WIRE UNLESS OTHERWISE NOTED. ALL BRANCH CIRCUITS AS SHOWN ON THE DRAWINGS SHALL BE INSTALLED AS INDICATED UNLESS PRIOR APPROVAL FROM THE ENGINEER AND OWNER IS RECEIVED IN WRITING. ALL BRANCH AND FEEDERS CIRCUITS SHALL HAVE INDIVIDUAL NEUTRAL CONDUCTORS, MINIMUM CONDUIT SIZE SHALL BE 3/4".
24. COORDINATE THE LOCATION OF ALL DEVICES AND BOXES WITH WINDOWS, CHALK/MARKER BOARDS AND BULLETIN BOARDS, BUILT–INS, AND CABINETS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. CONTRACTOR SHALL CONSULT ALL CONTRACT DRAWINGS TO VERIFY CONFLICTS WITH MARKER BOARDS, BULLETIN BOARDS, BUILT–INS AND CABINETS PRIOR TO BIDDING.
25. COORDINATE HEIGHTS OF WALL MOUNTED LIGHTING FIXTURES TO CLEAR MIRRORS, CABINETS AND BUILT–INS.
26. COORDINATE INSTALLATION OF ANY DEVICE LOCATED IN MILLWORK WITH ARCHITECTURAL DRAWINGS AND DETAILS PRIOR TO ROUGHING IN BOXES AND ROUTING CONDUIT.
27. LOCATIONS OF EQUIPMENT SPECIFIED BY OTHER TRADES OR PROVIDED BY OWNER ARE APPROXIMATE. COORDINATE EXACT LOCATIONS IN FIELD PRIOR TO ROUGHING IN AND ROUTING CONDUIT.
28. SEE ARCHITECTURAL REFLECTED CEILING PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF LIGHT FIXTURES IN LAY–IN OR DRYWALL CEILINGS, AND ON INTERIOR AND EXTERIOR WALLS.
29. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFIC INFORMATION ON LIGHT FIXTURE TYPES INDICATED ON PLAN DRAWINGS.
30. RECEPTACLES FOR ELECTRIC WATER COOLERS TO BE LOCATED DIRECTLY BEHIND ELECTRIC WATER COOLER, OUT OF SIGHT.
31. PROVIDE ELECTRONIC BALLAST FOR ALL FLUORESCENT LIGHT FIXTURES.
32. CONTRACTOR SHALL UPSIZE BRANCH CIRCUIT WIRE SIZE AS REQUIRED TO COMPENSATE VOLTAGE DROP FROM LENGTHENING OF CIRCUITS DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL MEET FLORIDA BUILDING CODE REQUIREMENT OF MAXIMUM BRANCH CIRCUIT VOLTAGE DROP OF 3%
33. EMERGENCY BALLAST BATTERY PACKS AND EMERGENCY EXIT SIGNS, WHERE USED, SHALL BE CONNECTED AHEAD OF LOCAL SWITCHING.
34. WITHIN 30 DAYS OF SYSTEM ACCEPTANCE, PROVIDE RECORD DRAWINGS TO OWNER, INCLUDING SINGLE LINE DIAGRAM OF BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND FLOOR PLANS INCLUDING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION IN ACCORDANCE WITH FBC 13–413.1.ABC.2.1.
35. PROVIDE OPERATING AND MAINTENANCE MANUALS TO BUILDING OWNER INCLUDING SUBMITTAL DATA, OPERATION MANUALS, AND NAME AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY IN ACCORDANCE WITH FBC 13–413.1.ABC.2.2.
36. PROVIDE A DIMMER SWITCH RATED FOR NOT LESS THAN 2000 WATTS FOR ALL DIMMABLE FIXTURES.
37. ALL WIRING SHALL BE IN CONDUIT AND INCLUDE SEPARATE GROUNDING CONDUCTOR.
38. VERIFY COLORS OF ELECTRICAL DEVICES WITH ARCHITECT.
39. PROVIDE GFCI BREAKER ON ALL 120V. EXTERIOR CIRCUITS.
40. PROVIDE PERMANENT SIGN AT SERVICE ENTRANCE EQUIPMENT AND MDP INDICATING TYPE AND LOCATION OF GENERATOR POWER SOURCE.
41. PROVIDE PERMANENT SIGN ON MDP AND ATS STATING LOCATION OF NEUTRAL TO GROUND BOND.
42. PROVIDE PERMANENT PLAQUE ON MDP STATING FEEDER DISCONNECT AND LOCATION OF SERVICE DISCONNECT PER NEC 230.2(D).

CIRCUIT LENGTH	SUGGESTED MIN. CONDUCTOR UP SIZE FOR VOLTAGE DROP
0 – 100'	#12 AWG THROUGHOUT ENTIRE CIRCUIT
101' – 175'	#10 AWG THROUGHOUT ENTIRE CIRCUIT
176' – 225'	#8 AWG THROUGHOUT ENTIRE CIRCUIT
226' AND ABOVE	#6 AWG THROUGHOUT ENTIRE CIRCUIT

ELECTRICAL SYMBOL LEGEND

BASIC MATERIALS

- S_a SINGLE POLE SWITCH (SUBSCRIPT LETTER INDICATES ITEM CONTROLLED)
- S_3 THREE WAY SWITCH (SUBSCRIPT LETTER INDICATES ITEM CONTROLLED)
- S_M MANUAL MOTOR STARTER WITH OVERLOAD ELEMENTS WP = WEATHERPROOF ENCLOSURE.
- S_D DIMMER SWITCH, 2000W MINIMUM
- S_{OS} DUAL TECHNOLOGY OCCUPANCY SENSOR WALL SWITCH
- S_P SINGLE POLE SWITCH WITH PILOT LIGHT
- CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR WITH ASSOCIATED RELAYS FOR LIGHTING AND ADJUSTABLE TIME 0-30 MINUTES. ADJUST SENSORS AS DIRECTED BY OWNER FOR OPTIMUM LIGHTING CONTROL. PROVIDE ADDITIONAL SENSORS IF NECESSARY. FAIL SAFE ON, 15 MIN. DELAY FOR LIGHTING ON CORRIDOR LIGHTS SHALL FLASH BEFORE TURNING OFF.

POWER

- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT OR 42" AFF
- GFI RECEPTACLE. WP DENOTES WEATHERPROOF IN-USE COVER
- GFI RECEPTACLE MOUNTED ABOVE COUNTER HEIGHT OR 42" AFF
- SIMPLEX RECEPTACLE
- J JUNCTION BOX WITH IDENTIFIED BLANK COVER
- TWO DUPLEX RECEPTACLES WITH COMMON COVER
- TWO DUPLEX RECEPTACLES WITH COMMON COVER MOUNTED ABOVE COUNTER HEIGHT
- 20 SPECIAL PURPOSE RECEPTACLE. FIELD COORDINATE THE EXACT NEMA RATING. NUMBER INDICATES AMPERAGE.
- KD FLUSH FLOOR OUTLET BOX AND DUPLEX RECEPTACLE WITH APPROPRIATE FLANGE.
- FLUSH CEILING MOUNTED DUPLEX RECEPTACLE.
- LO GENERATOR LOCKOFF
- ST SHUNT TRIP

SERVICE AND DISTRIBUTION

- BRANCH CIRCUIT PANELBOARD, OVER 250 VOLTS, SURFACE MOUNTED
- BRANCH CIRCUIT PANELBOARD, UNDER 250 VOLTS, SURFACE MOUNTED
- 3-60 FUSED DISCONNECT SWITCH. 3=3-POLE, 60=60 AMP. ASTERISK INDICATES TO FUSE ACCORDING TO MANUFACTURERS RECOMMENDATIONS. NEMA 3R RATED OUTDOOR LOCATIONS. NEMA 1 INDOOR LOCATIONS.
- 3-60 NF NON-FUSED DISCONNECT SWITCH, 3=POLE, 60=60 AMP, NEMA 3R RATED OUTDOOR LOCATIONS. NEMA 1 INDOOR LOCATIONS.
- 3-30 NEMA 1 COMBINATION FUSED DISCONNECT MOTOR STARTER. ASTERISK INDICATES TO FUSE ACCORDING TO EQUIPMENT MANUFACTURERS RECOMMENDATIONS. NEMA 1 RATED INDOOR. (NEMA 3R RATED OUTDOORS IN WET LOCATIONS) NEMA SIZE 0 OR AS INDICATED ON DRAWINGS.
- SPD SURGE PROTECTION DEVICE
- GND GROUND BAR
- TELEPHONE TERMINAL BOARD (TTB)

ELECTRICAL DRAWING INDEX

SHEET	DESCRIPTION
E-1	ELECTRICAL SYMBOL, NOTES AND INDEX
E-2	ELECTRICAL SITE PLAN
E-3	ELECTRICAL DEMOLITION PLAN
E-4	ELECTRICAL LIGHTING PLAN
E-5	ELECTRICAL POWER AND SYSTEMS PLAN
E-6	ELECTRICAL ONE–LINE DIAGRAM
E-7	LIGHT FIXTURE SCHEDULE
E-8	ELECTRICAL PANEL SCHEDULES
E-9	ELECTRICAL DETAILS
E-10	ELECTRICAL DETAILS

FIRE ALARM (ADDRESSABLE TYPE DEVICES)

- F MANUAL PULL STATION
- F COMBINATION VISUAL SIGNALING UNIT- WITH INTERNAL SPEAKER/FLASHING "FIRE" LIGHT WP = WEATHERPROOF UNIT
- F VISUAL SIGNALING UNIT, WALL MOUNTED- FLASHING "FIRE" LIGHT ONLY (NO AUDIO DEVICE)
- R/S PHOTOELECTRIC DUCT SMOKE DETECTOR R=RETURN S=SUPPLY
- R FIRE ALARM SHUTDOWN RELAY
- RTI DUCT DETECTOR REMOTE TROUBLE INDICATOR. MOUNT ADJACENT TO UNIT.
- H FIRE ALARM HEAT DETECTOR
- 2 CEILING MOUNTED SMOKE DETECTOR. (2) INDICATES PROVIDE DUAL CONTACT.
- TS SPRINKLER TAMPER SWITCH CONNECTION
- FS SPRINKLER WATERFLOW SWITCH CONNECTION
- SS FIRE ALARM VOICE EVACUATION SPEAKER, CEILING FLUSH MOUNTED.
- FACP FIRE ALARM CONTROL PANEL. FLUSH MOUNTED.
- FAJB FIRE ALARM JUNCTION BOX.
- WL ELEVATOR WARNING LIGHT
- FAAP REMOTE GRAPHIC FIRE ALARM ANNUNCIATOR PANEL
- ELECTROMAGNETIC DOOR HOLD OPEN DEVICE.
- ST DIGITAL TIMER
- SD SMOKE DAMPER. PROVIDE CONDUIT, WIRE AND ACCESSORIES AS REQUIRED TO OPERATE (CLOSE) SMOKE DAMPER UPON ACTIVATION OF FIRE ALARM SYSTEM. COORDINATE WITH DIVISION 15.
- KB KNOX BOX MOUNTED AT 9' ABOVE FINISHED GRADE.

1 LIGHTING (SEE LIGHTING FIXTURE SCHEDULE)

- A 20 a 2x4 FLUORESCENT FIXTURE. NUMBER INDICATES BRANCH CIRCUIT WHICH FIXTURE IS CONNECTED. UPPER CASE LETTER INDICATES FIXTURE TYPE.LOWER CASE LETTER INDICATES SWITCH WHICH CONTROLS FIXTURE. NL NEXT TO FIXTURE INDICATES FIXTURE CONNECTED TO "HOT" UNSWITCHED CIRCUIT.
- 1x4 FLUORESCENT FIXTURE,
- FLUORESCENT STRIP FIXTURE.
- EMERGENCY EXIT SIGN, CONNECT TO UNSWITCHED "HOT" CONDUCTORS. CONNECT TO UNSWITCHED LOCAL LIGHTING CIRCUIT.
- WALL MOUNTED FIXTURE.
- WALL MOUNTED EMERGENCY FIXTURE.
- TRACK FIXTURE.

DATA/COMM

- DATA/COMM OUTLET WITH FLUSH MOUNTED 4" SQUARE SINGLE GANG JUNCTION BOX WITH 2"x4" DRYWALL PENETRATION. PROVIDE BLANK COVER PLATE. EXTEND 1" CONDUIT TO TTB/TV SERVICE POINT WITH PLASTIC BUSHING. INSTALL CAT5E TERMINATE WIRING. CH = MOUNTED ABOVE COUNTER HEIGHT. COORDINATE INSTALLATION REQUIREMENTS WITH OWNER AND SERVICE PROVIDER(S). 1 DATA, 1 VOICE UNLESS NOTED OTHERWISE.
- TV TELEVISION OUTLET @ 80" AFF. PROVIDE 4" SQUARE SINGLE GANG JUNCTION BOX WITH 2"x4" DRYWALL PENETRATION. PROVIDE BLANK COVER PLATE. EXTEND 1" CONDUIT TO ABOVE CEILING AND STUB-OUT WITH PLASTIC BUSHING. INSTALL PULL WIRE.
- J WAP WIRELESS ACCESS POINT, PROVIDE 3/4"C TO TELEPHONE TERMINAL BOARD (TTB)

SECURITY

- BALANCED MAGNETIC DOOR CONTACT SURFACE MOUNTED, PROVIDE 1/2" CONDUIT WITH PULL STRING TO SECURITY CONTROL PANEL.
- J D RECESSED JUNCTION BOX FOR SECURITY DOOR. VERIFY INSTALLATION REQUIREMENTS WITH OWNER.
- J DA DURESS PUSHBUTTON STATION, WALL-MOUNTED MUSHROOM HEAD.
- J DC MONITORED/CONTROLLED DOOR
- J CM EXTERIOR CAMERA W/DETENTION HOUSING.
- WP J CM EXTERIOR CAMERA W/WEATHERPROOF DETENTION HOUSING.
- 1 J IC REMOTE INTERCOM STATION (PEDESTAL MOUNTED WERE SHOWN ON PLANS)
- SAAP TOUCH SCREEN CONTROL STATION.
- SACP SECURITY EQUIPMENT CABINET.
- KB KNOCK BOX MTD. AT 9'-0" AFG.
- J DPS DOOR POWER SUPPLY.

DATE	REVISIONS
06/02/09	1 ADDENDUM 1

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E-1

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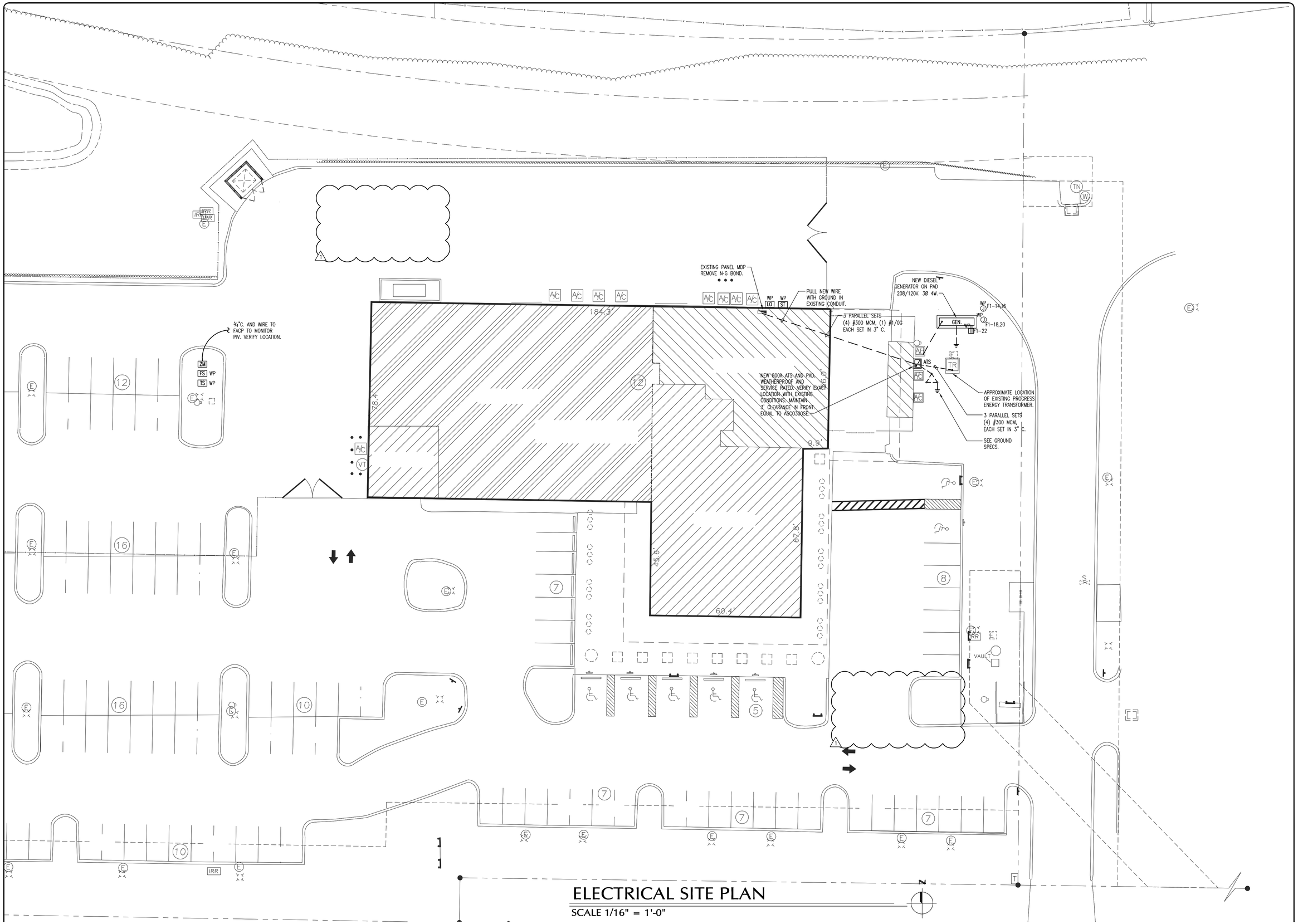

ELECTRICAL SITE PLAN

SCALE 1/16" = 1'-0"

REVISIONS	DATE
1 ADDENDUM 1	06/02/09

AN INTERIOR TENANT IMPROVEMENT FOR

LAKE COUNTY SHERIFF

SUBSTATION

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E-2

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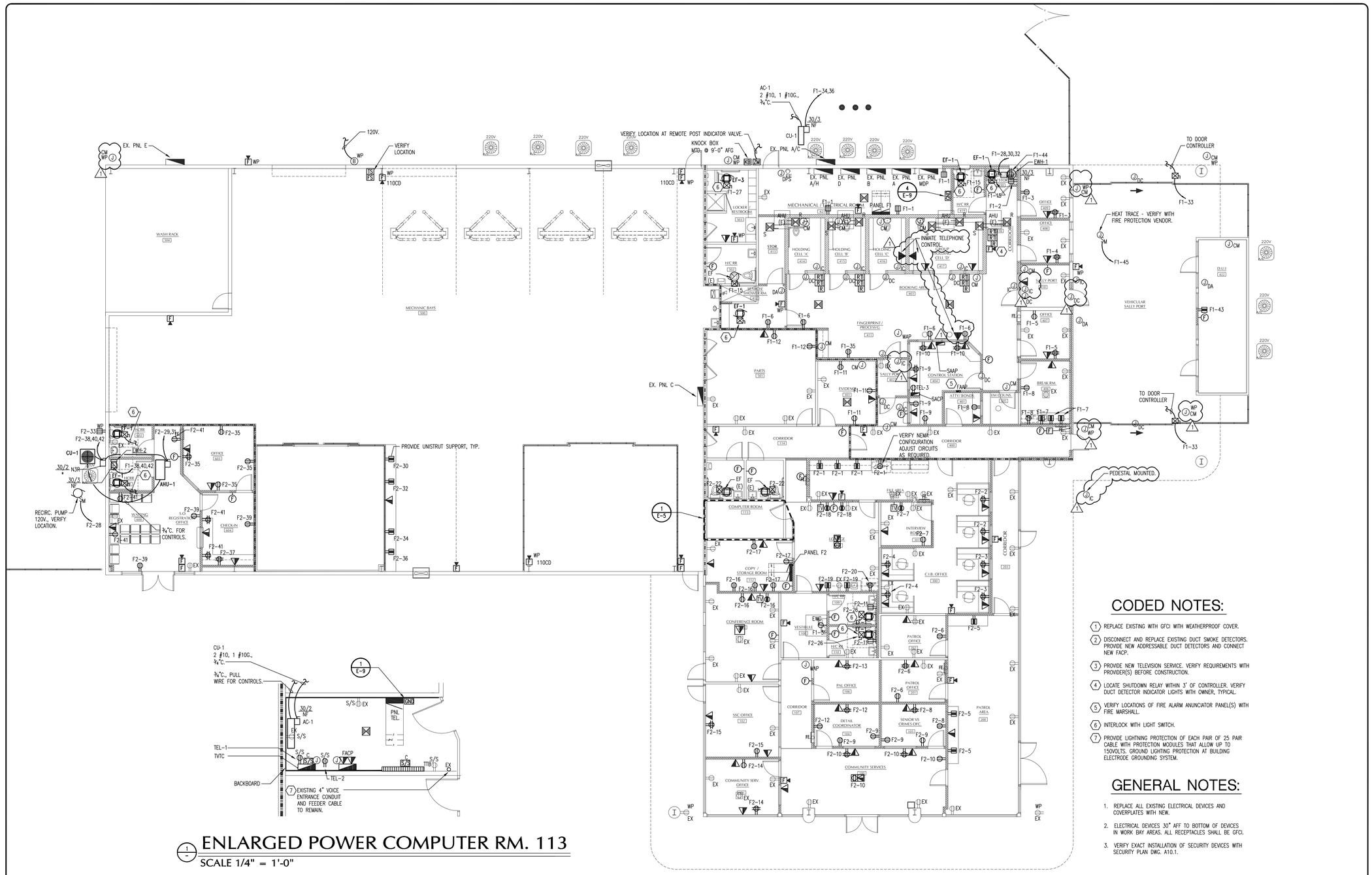

1/E-9 ENLARGED POWER COMPUTER RM. 113

SCALE 1/4" = 1'-0"

ELECTRICAL POWER & SYSTEMS PLAN

SCALE 1/8" = 1'-0"

CODED NOTES:

1. REPLACE EXISTING WITH GFCI WITH WEATHERPROOF COVER.
2. DISCONNECT AND REPLACE EXISTING DUCT SMOKE DETECTORS. PROVIDE NEW ADDRESSABLE DUCT DETECTORS AND CONNECT NEW FACP.
3. PROVIDE NEW TELEVISION SERVICE. VERIFY REQUIREMENTS WITH PROVIDER(S) BEFORE CONSTRUCTION.
4. LOCATE SHUTDOWN RELAY WITHIN 3' OF CONTROLLER. VERIFY DUCT DETECTOR INDICATOR LIGHTS WITH OWNER, TYPICAL.
5. VERIFY LOCATIONS OF FIRE ALARM ANUNCIATOR PANEL(S) WITH FIRE MARSHALL.
6. INTERLOCK WITH LIGHT SWITCH.
7. PROVIDE LIGHTNING PROTECTION OF EACH PAIR OF 25 PAIR CABLE WITH PROTECTION MODULES THAT ALLOW UP TO 150VOLTS. GROUND LIGHTING PROTECTION AT BUILDING ELECTRODE GROUNDING SYSTEM.

GENERAL NOTES:

1. REPLACE ALL EXISTING ELECTRICAL DEVICES AND COVERPLATES WITH NEW.
2. ELECTRICAL DEVICES 30" AFF TO BOTTOM OF DEVICES IN WORK BAY AREAS. ALL RECEPTACLES SHALL BE GFCI.
3. VERIFY EXACT INSTALLATION OF SECURITY DEVICES WITH SECURITY PLAN DWG. A10.1.

REVISIONS	DATE
1 ADDENDUM 1	06/02/09

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E-5

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