ADDENDUM NUMBER THREE (3)

Date: June 27, 2014

Project: Socorro County Detention Center
1001 Grefco Road
Socorro, New Mexico
Studio SW Project Number: 1344

From: Studio Southwest Architects, Inc.
2101 Mountain Road NW
Albuquerque, New Mexico 87104
843-9639
843-9683 FAX

To: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated June 16, 2014 as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of (7) pages plus (22) additional or revised pages for the Project Manual, including a blank page, (3) attached Supplemental Drawings, and (5) attached revised Drawings.

1. **CHANGES TO BIDDING REQUIREMENTS:**
   1.1 DOCUMENT 004394 – SUBCONTRACTORS SUPPLEMENTAL FORM: REPLACE with the attached revised document.

2. **CHANGES TO PROJECT MANUAL:**
   2.1 SECTION 012220 – LINE ITEMS: REPLACE with the attached revised section.
   2.2 SECTION 012300 – ALTERNATIVES, Article 3.1, Paragraph B, Subparagraph 1: To the end of the paragraph ADD: “Contractor to provide paint striping and symbols over the seal coat.”
   2.3 SECTION 014000 – QUALITY REQUIREMENTS, Article 1.10: ADD Paragraph B to read as follows: “B. If the Metal Building Systems fabricator does not have approved IAS certification, Special Inspection shall be done on the fabrication process and on the fabricated material as required by Section 133419. In this case, the fabricator will engage and assume the cost of the special inspector.”

Socorro County Detention Center - Addendum No. 3 - Page 1 of 7
p:\1344 socorro county detention center\30-bidding & negotiating\1-addendum\3-addendum no 3\scdc addendum number three.docx
2.5 SECTION 105100 – LOCKERS:
   A. Article 1.03, Paragraph A: CHANGE to read: “A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.”
   B. Article 2.03, Paragraph A: CHANGE “... ASTM A653/A653M SS Grade 33/230, with G60/Z180 coating...” to read: “… ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications...”.
   C. Article 2.03, Paragraph E: ADD Subparagraph 2 to read: “2. Manufacturer’s continuous hinge may be provided in lieu of knuckle hinges.”

2.6 SECTION 111953 – DETENTION HARDWARE: REPLACE with the attached revised section adding “Airtect” to Articles 2.2, 2.3, and 2.4 as a supplier under Norment.

2.7 SECTION 111963 – DETENTION FURNISHINGS, Article 2.1, Paragraph A:
   A. DELETE “2. Peterson Detention Inc.; Orange, CA.”
   B. ADD “9. PDI; Orange, CA.”
   C. ADD “10. Viking Products; Orange, CA.”

2.8 SECTION 112326 – LAUNDRY EQUIPMENT: ADD Article 3.03 to read as follows:
   3.03 SCHEDULE
   A. Provide one new Washer Extractor and one new Tumble Dryer.
   B. Relocate one existing Washer Extractor and one existing Tumble Dryer.

2.9 SECTION 133419 – METAL BUILDING SYSTEMS, Article 1.06, Paragraph C: ADD the following to the end of the paragraph:
   If the fabricator does not have approved IAS certification, Special Inspection shall be done on the fabrication process and on the fabricated material as required by Section 1704.2, Inspection of Fabricators of the New Mexico Commercial Building Code. The non-certified fabricator shall engage a special inspector that meets the requirements of NMCBC section 1704.1 and is acceptable to the building official and the engineer of record. Provide documentation verifying certification or provide special inspector information for approval prior to issuance of submittals. The cost of these special inspections will be borne by the fabricator.

2.10 SECTION 224000 – PLUMBING FIXTURES, Article 2.8 TOILET SEATS: ADD “Centoco” to the list of approved manufacturers.

2.11 SECTION 224500 – EMERGENCY PLUMBING FIXTURES, Article 2.1 COMBINATION UNITS: ADD “Acorn Safety” to the list of approved manufacturers.
2.12 SECTION 230900 – INSTRUMENTATION AND CONTROL FOR HVAC, Article 2.1, Paragraph A: ADD “Alerton, Inc. BACtalk FMS/DDC” to the list of manufacturers.

3. CHANGES TO DRAWINGS:

3.1 SHEET AS-501 – SITE DETAILS: DELETE Detail C4, Standing Curb Detail.

3.2 SHEET C-100 – GRADING AND DRAINAGE PLAN: REVISE the drawing to add the detail reference as shown on Supplemental Drawing SKC-01.

3.3 SHEET C-300 – CIVIL DETAIL SHEET: ADD the detail shown on Supplemental Drawing SKC-02.

3.4 SHEET S-102 – FOUNDATION AND FRAMING PLANS: MODIFY as shown on the attached revised sheet.

3.5 SHEET S-103 – MEZZANINE AND MASONRY WALL PLAN: MODIFY as shown on the attached revised sheet.

3.6 SHEET P-102 – PLUMBING FIRST FLOOR AREA A4.2, CELL (1) B5 and CELL (2) A1: DELETE the reference to “SH-1.”

3.7 SHEET P-103 – PLUMBING FIRST FLOOR AREA A4.3, ISOLATION 147 and DORMITORY (6) POD G: CHANGE “SH-2” to “SH-5.”

3.8 SHEET P-104 – PLUMBING FIRST FLOOR AREA A4.4, CELL (4) C2 and CELL (2) E1: DELETE the reference to “SH-1.”

3.9 SHEET P-300 – PLUMBING FIXTURE SCHEDULE: DELETE “SH-1.”

3.10 SHEET P-401 – PLUMBING DETAILS: ADD the “Booster Pump Schedule” and “Gas Water Heater Schedule” to this sheet as shown on Supplemental Drawing SKP-01.

3.11 SHEET E-001 – ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES: ADD the following abbreviation: “BC BELOW COUNTER”.


3.13 SHEET EL101 GROUND FLOOR PLAN – LIGHTING:

A. Reference room #104: REVISE fixture from type “FF2” to type “FR3”.

B. Reference room #118: ADD annotation “D” to light switch. Light switch shall be a dimmer type.

C. Reference room #124: ADD Plan Note tag “8” adjacent to light switches.

D. Reference room #H1, H2, H3, & H4: REVISE fixture from type “FS1” to type “LS1”.

E. Reference room #120, make the following revisions:

1. ADD “E” designation to light fixture (FR5E). Light fixtures shall have an emergency ballast (Quantity of 3).

2. Two (2) light fixtures are unlabeled. LABEL as “FR5, 7b”.

Socorro County Detention Center - Addendum No. 3 - Page 3 of 7
F. Reference room #126, make the following revisions:
   1. ADD “E” designation to light fixture (FR5E). Light fixtures shall have an emergency ballast.
   2. REVISE fixture from type “FS1” to type “FS4”. REVISE circuit number from “7b” to “7f”.

G. Reference room #132: ADD “E” designation to light fixture (FR5E). Light fixture shall have an emergency ballast.

H. Reference room #146: REVISE switch designation from “K,2a” to “K,2c” serving type “LS1” light fixture in room #147.

3.14 SHEET EL111 – MEZZANINE PLAN – LIGHTING: REVISE lighting per attached revised Sheet EL-111.

3.15 SHEET EP101 – GROUND FLOOR PLAN – POWER:
   A. Reference Cells #A1, B5, C2, & E1: ADD Plan Note tag “7” adjacent to receptacles.
   B. Reference “MTS” on outside of room #156: REVISE Plan Note tag from “13” to “3”.
   C. Reference receptacle outside adjacent to door of room #158: ADD the following annotation adjacent to the receptacle: “WP, GF, 2”.
   D. Reference room #156: DELETE utility meter from exterior wall.

3.16 SHEET EY101 – GROUND FLOOR PLAN – SYSTEMS:
   A. Reference room #121: ADD a fire alarm strobe on the west wall.
   B. Reference room #150: ADD a fire alarm security cover “SC” to the smoke detector in the room.
   C. Reference room #154: REVISE plan note tag from “10” to “8”.

3.17 SHEET E-300 – ELECTRICAL DETAILS:
   A. Reference detail #4: DELETE (2) conduits from detail.
   B. Reference detail #5: detail “b”. DELETE (1) conduit from detail. Note conduit shall have GRS long sweep elbows.

3.18 SHEET E-400 – ELECTRICAL RISER DIAGRAMS: REVISE the “Electrical Riser Diagram” per attached revised Sheet E-400.

3.19 Sheet E-510 – ELECTRICAL LIGHTING SCHEDULES:
   A. Reference the “Interior Light Fixture Schedule.” Make the following revisions:
      1. Reference fixture type “FR3”: REVISE quantity of lamps from “3” to “2”.
      2. Reference fixture type “LS1”: REVISE fixture lamp description from “Fluorescent” to “LED”.

Socorro County Detention Center - Addendum No. 3 - Page 4 of 7
B. Reference the “Exterior Light Fixture Schedule”. Make the following revisions:

1. Reference fixture type “OA1”: REVISE pole dimensions from 5" to 6”.

4. QUESTIONS

4.1 Verbal question from Gerald Martin (At Pre-bid Meeting, 6-24-14)

1. Can documents 004336 and 004394 be combined by the Contractor into a new form and submitted with the bid?

Response: We strongly recommend using the forms included in the Project Manual to avoid the possibility of disqualification.

4.2 Questions from Airteq (6-18-14)

1. I am in receipt of the plans and specs for the above referenced. Please refer to Division 11, Section 111953, Part 2 – Products, 2.1.A & B. An approved hardware manufacturer is listed as “Norment Security Group”. Norment is classified as a Detention Equipment Contractor, although Norment’s hardware manufacturing division is Airteq Systems. Could you please clarify you are approving Airteq Systems, and if so will you issue an addendum indicating such?

Response: Airteq added in Addendum No. 3.

4.3 Questions from B&C (6-24-14)

1. Noticed two (2) separate metal building specifications, Section 13 34 00 (Pre-Engineered Metal Building) & Section 133419 (Metal building Systems). Which is correct?

Response: Section 133400 deleted in Addendum No. 2.

2. If, Section 133419 is used. There is a requirement for IAS AC472 certification for the building manufacturer. We are not certified for cost considerations, however, we do comply with the requirements. We see no other issues with complying with the specification. Sometimes, the wording might be changed to read something such as "Building will be designed and fabricated "in accordance" with IAS AC472" - this does not mean the manufacture is certified, but follows this an other appropriate codes, etc.

Response: Answered in Addendum No. 3.

4.4 Questions from Flintco (6/24/14)

1. The bid form contains two line items that are noted to “be added to the base bid.” Are these line items breakout numbers that are to be included in the total base bid amount, or are they to be added to the base bid after award?

Response: The Line Items are to be included in the Base Bid. This has been clarified in Addendum No. 3.

2. Will the painted line striping at the parking spaces and crosswalk on the owner provided Gravel/Seal Coat be required in our base bid price? I assume the striping and HC symbols on the concrete will be in our price.
Response: Yes, include paint striping and symbols in the Base Bid condition. This has been clarified in Addendum No. 3.

3. There is a detail (C4/AS-501) for a standing curb, there is no indication of this curb on the site plan or grading plan, please clarify.

Response: Deleted in Addendum No. 3.

4. Are there any Utility Expansion Fees associated with the utility tie-ins? If so, who is responsible for payment?

Response: Socorro County will pay the Utility Expansion Fees directly.

4.5 Questions from Sierra Detention (6-24-14)

1. Please provide a description of the security hardware sets. Specification Section 111593 – Door Schedule calls out the hardware set tags but does not provide a description of what each set contains. Specification Section 111953 – Detention Hardware does not contain Security Hardware set descriptions either.

Response: The Detention Hardware Schedule was added in Addendum No. 2.

4.6 Questions from Donner Plumbing (6-25-14)

1. Cells – A1, B5, C2 and E1 show a SH-1 at the shower unit. According to specification 11 1998-10 the DCM is providing the metering valve and associated parts. Is the SH-1 a typo?

Response: Delete SH-1. See Addendum No. 3.

2. The plumbing fixture schedule doesn’t cover the WH-1, WH-2, HW Storage Tank, BP-1 or expansion tank for the BP-1. Please clarify.

Response: See Attachment SKP-01 of Addendum No. 3.

4.7 Questions from Norcon (6-26-14)

1. Specification Section 105100, Article 2.03 A is calling for a galvanized coating for the sheet metal of the lockers. This is not usually done because of the high cost of the upgrade in an installation that is not in a high humidity environment like a pool locker room. Is a galvanized coating required for the sheet metal of the lockers on this project?

Response: The galvanized coating is deleted in Addendum No. 3.

2. Same section, Article 2.03 E is calling for knuckle hinges, however the called out manufacturer, Art Metal Products, does not have a knuckle hinge available. Will the manufactures standard continuous piano hinge be acceptable along with the knuckle hinge?

Response: Continuous piano hinge is acceptable. See Addendum No. 3.
4.8 Questions from Jaynes (6-26-14)

1. Can you please clarify who is to provide the 2 large industrial washers and dryers called out in Detail 6 on A113. The commercial washers called out in Division 112326 are these owner or GC provided.

Response: Clarified in Addendum No. 3.

4.9 Questions from Jaynes (6-26-14)

1. I have a question on Document 004394 Subcontractors Supplemental Form for the Socorro Detention Center. You are requesting the Dept. of Labor Registration Number which is typical, what I didn’t understand was what you meant by the date of registration. Did you mean date of expiration? These companies are required to re-register every 2 years to get a DOL number now. Are you requesting the original date they registered or the most recent date they registered.

Response: Form replaced in Addendum No. 3.

End of Addendum
1.1 BID INFORMATION

A. Bidder: ____________________________________________________.
B. Project Name: Socorro County Detention Center.
C. Project Location: 1001 Grefco Road, Socorro, New Mexico 87801.
D. Owner: Socorro County Board of County Commissioners, P.O. Box 1, 210 Park Street, Socorro, New Mexico 87801.

1.2 BID FORM SUPPLEMENT

A. The Subcontractors Supplemental Form below will be required to be completed and submitted to the Purchasing Department via electronic mail (svega@co.socorro.nm.us), US Postmaster, or hand delivered (210 Park Street, Socorro, NM 87801) within two (2) business days (48 hours) of the bid opening (excluding holidays and weekends). Failure to meet this deadline shall deem the bid non-responsive and the bid shall be rejected. The following two (2) conditions will automatically waive the 48 hour period:
   1. If a bidder submits a completed form at the time of bid submittal; and
   2. If a blank form is submitted with the bid submittal, the form will be accepted as a completed form.

B. In addition to the requirements above, the following shall apply:
   1. Pursuant to 13-4-13.1, contractors and subcontractors who obtain contracts in excess of $60,000 are required to register with the Labor and Industrial Division of the Department of Workforce Solutions and obtain a registration number prior to bid submittal.
   2. All tiers of subcontractors shall be subject to the requirements of the Act including equipment providers and/or material suppliers, who will perform work, provide labor or render services at or about the construction site.
   3. Any Bidder who fails to submit a complete list in accordance with 13-4-13.1 and the instructions stated above shall have its bid deemed non-responsive and the bid shall be rejected.

<table>
<thead>
<tr>
<th>SUBCONTRACTORS NAME</th>
<th>DEPT OF LABOR REGISTRATION NUMBER</th>
<th>DATE OF REGISTRATION EXPIRATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SUBCONTRACTORS SUPPLEMENTAL FORM
SECTION 012220 – LINE ITEMS

PART 1 - GENERAL

1.1 SUMMARY
   A. Section includes administrative and procedural requirements for Line Items included on the Bid Form.

1.2 PROCEDURES
   A. Line Items include all necessary material, plus cost for delivery, installation, insurance, overhead, and profit. Line Items are not included in the Base Bid, but are added to the Base Bid.
   
   B. List of Line Items: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF LINE ITEMS
   A. Line Item 1: Detention Equipment Subcontractor.
      1. Description: Scope of work for Detention Equipment Subcontractor as defined in Section 111900 “General Provisions for Detention Work” and all related sections and construction drawings.
      2. This Line Item includes Contractor overhead and profit.
   
   B. Line Item No. 2: Security Electronics Subcontractor.
      1. Description: Scope of work for Security Electronics Subcontractor as defined in Section 280500 “Common Work Results for Electronic Security” and all related sections and construction drawings.
      2. This Line Item includes Contractor overhead and profit.

END OF SECTION 012220
SECTION 111953 - DETENTION HARDWARE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS
   A. Drawings and general provisions of the Contract, including General and Supplementary
      Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY
   A. This Section includes the following:
      1. Complete Detention door hardware sets.

   B. Related Sections include the following:
      1. Division 11 Section “General Provisions for Detention Work”
      2. Division 11 Section “Detention Hollow Metal Doors and Frames”
      3. Division 11 Section “Detention Enclosures”
      4. Division 11 Section “Tamper Proof Metal Fasteners”
      5. Division 13 Section “Modular Steel Cells”
      6. Division 26 for Electrical
      7. Division 27 for Communications
      8. Division 28 for Electronic Safety and Security

1.3 PERFORMANCE REQUIREMENTS
   A. Swinging Detention Door Assemblies: Provide detention door hardware as part of a detention
      door assembly that complies with security grade indicated, when tested according to
      ASTM F 1450, based on testing manufacturer's standard units in assemblies similar to those
      indicated for this Project.

1.4 SUBMITTALS
   A. Product Data: Include construction details, material descriptions, dimensions of individual
      components and profiles, and finishes for each type of detention door hardware.

   B. Shop Drawings: For each type of detention door hardware. Include openings by door number
      and location, manufacturer's names, catalog numbers, keying information, materials, and finish.
      The Architect/Engineer's approval of schedule will not relieve Contractor or Supplier of
      responsibility for errors or omissions which it might contain.

   C. Certification by Manufacturer: That products supplied complies with performance requirements
      specified.

   D. Qualification Data: For Installer.
E. Product Test Reports: Showing compliance with specified requirements.

F. Maintenance Data: For each type of detention door hardware to include in maintenance manuals.

G. Warranties: Special warranties specified in this Section.

H. Detention Keying Schedule: Provide a preliminary Keying Schedule to the owner during the submittal phase. Once the schedule has been reviewed, coordinate a Detention Keying Meeting with the Architect, Owner so as not to delay the manufacturer and delivery of the required detention locks.

1.5 QUALITY ASSURANCE

A. Detention Equipment Contractor (DEC) Qualifications
   1. General: Refer to Section 111900.

B. Provide detention hardware manufactured by a single firm specializing in the production of this type of work.

C. Installation and maintenance of the detention hardware shall be performed by manufacturer approved personnel. Submit certification of manufacturer training with shop drawings.

D. Provide hardware for Fire-Rated Openings conforming to UBC Standard 7-2.

1.6 JOB CONDITIONS

A. Detention Hardware Coordination Conference:
   1. A coordination conference will be held and coordinated by the General Contractor after submittals of schedules and shop drawings.
   2. Participants: A qualified representative of each of the following parties will attend the conference:
      a. Owner
      b. Project Manager
      c. Architect/Engineer
      d. General Contractor
      e. Detention Equipment Contractor
      f. Electrical Contractor
      g. Detention Hollow Metal Work Supplier
      h. Detention Hollow Metal Work Installer
      i. Detention Hardware Supplier
      j. Detention Hardware Installer
   3. Bid Package Contractor shall take minutes of the hardware coordination conference.

1.7 DELIVERY, STORAGE AND HANDLING

A. Deliver, store and handle detention hardware per manufacturer's requirements.
B. Delivery: Deliver items in manufacturer's original package. Each item individually packaged and carefully marked for intended opening and use. Each item complete with all necessary screws, bolts, keys, instructions, and where necessary, installation templates.

C. Storage: Store off floor in dry area of building out of way of other work in progress. Provide maximum protection against loss and damage.

D. Handling: Handle items in a manner to prevent damage. Marred, defaced, damaged and defective items will be rejected.

1.8 WARRANTY

A. General Warranty: The special warranty specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by the Contractor under requirements of the Contract Documents.

B. Special Warranty: Submit a written warranty executed by the manufacturer and installer agreeing to repair or replace materials furnished under this Section that fail in materials or workmanship within the specified warranty period. Submit the warranty to the Architect for approval. The spare part provided to the Owner in the original inventory shall be maintained during the warranty period. Components used for repair shall be replaced immediately and the Owner shall not be charged for shipping or other costs unless failure is due to abuse or negligence.

C. Warranty Period: Two (2) years from date of Substantial Completion.

1.9 MAINTENANCE SERVICE

A. Maintenance Manual: Furnish a bound complete set of maintenance instructions as needed for Owner's continued adjustment, maintenance, repair, and removal and replacement of detention door hardware.

B. Training: Provide on site review of Operational and Maintenance manuals and spare parts with the Owner's designated personnel. Provide sixteen hours of training on repair and maintenance of the detention door hardware.
   1. Provide a professionally produced video tape on the repair and maintenance of the detention door hardware.

C. Initial Maintenance Service: Beginning at Substantial Completion, provide at six (6) month intervals (coordinate exact time with the User) per year for the basic warranty period full maintenance by skilled employees of detention door hardware Installer. Include preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper detention door hardware operation. Provide parts and supplies as used in the manufacture and installation of original products.
PART 2 - PRODUCTS

2.1 MANUFACTURER

A. Catalog numbers of the manufacturers listed have been used to establish the quality required. The only other manufacturers approved are listed. Other manufacturers seeking approval shall do so in writing per General Requirements and shall list exact catalog numbers and description of the items he proposes to furnish.

B. DESIGNATIONS: Following abbreviations identify listed hardware manufacturers.

1. Norment Norment Security Group; Montgomery, AL
2. Brink R.R. Brink Locking Systems, Inc.; Shorewood, IL
3. SF Southern Folger; San Antonio, TX
4. Allegion Allegion; Carmel, IN
5. Hiawatha Hiawatha Metalcraft, Inc.; Minneapolis, MN
6. Ives H.B. Ives Div.; New Haven, CT
7. LCN LCN Closers; Princeton, IL
10. Reese Reese Enterprises; Rosemount, MN
11. NW Northwest Specialty Hardware Inc.; Clackamas OR
12. Zero Zero Weatherstripping; Bronx, NY
13. NG National Guard Products; Memphis, TN
14. Sargent Sargent Manufacturing Co.; New, CT.

2.2 DETENTION HINGES

A. Utility-Door Detention Hinges:

1. Series/Manufacturer:
   a. 645 FMST/NW
   b. 3/Brink
   c. 3FS/Folger Southern
   d. 603/Airteq

2. Heavy weight, plain bearing; fabricated from cast iron or steel; 3/8-inch- (9.5-mm-) diameter, case-hardened, fully welded, steel hinge pin; full surface.

B. Food-Pass Detention Hinges:

1. Series/Manufacturer:
   a. 603FP/Airteq
   b. 3FP/Brink
   c. 3FP/Folger Southern
   d. 645 FMST/NW

2. Heavy weight, plain bearing; fabricated from cast iron or steel; 3/8-inch- (9.5-mm-) diameter, case-hardened, fully welded, steel hinge pin; with applied stop preventing door from opening more than 90 degrees and supporting door in horizontal position as a shelf; full surface.

C. Extra Heavy Duty, 5:
1. Series/Manufacturer:
   a. 605/Airteq
   b. 5/Brink
   c. 5G/Folger Southern
   d. 645 FMST/NW


3. 2 heavy-duty thrust bearings with hardened-steel ball bearings; fabricated from steel plate; 3/4-inch diameter, case-hardened, fully welded, steel hinge pin.

4. 5” High x 5 ¾” Wide, 1/2” thick leaves.

5. Provide 1-1/2 Pair.

D. Heavy Duty, 4 1/2 FM:
1. Series/Manufacturer:
   a. 604FMCS/Airteq
   b. 4 1/2 SRS/Brink
   c. 4 1/2 FM-ICS/Folger Southern
   d. 645 FMST/NW

2. 4 1/2 x 4 1/2, 3/16” thick leaves.

3. Cast stainless steel leaves with integral security studs, non-removable stainless steel pins, stainless steel ball bearings, three knuckle with "HT" hospital tips.

4. Provide quantities as follows:
   a. Doors less than 5 feet high provide 1 Pair.
   b. Doors over 5 feet to 7 feet 6 inches provide 1-1/2 Pair.
   c. Doors over 7 feet 6 inches to 10 feet provide 2 Pair.
   d. Doors over 3 feet wide provide 2 Pair.

2.3 DETENTION ELECTRIC LOCKS

A. Maximum Security - Electrical Operation (Swing Gate):
1. Series/Manufacturer:
   a. 8030/Brink
   b. Airteq
   c. 806ES/Folger Southern

2. Fence post mounted 120VAC, continuous-duty solenoid actuated.

3. Deadlocks automatically when gate is closed.

4. Bolt is retracted electrically by push button at control panel and remains retracted until door is opened.

5. Bolt is retracted manually by paracentric key on outside and/or inside.

6. See Detention Hardware Schedule for keying.

7. Bolt is retracted until relocked by key.

8. Internal switches monitor deadlocked condition of the deadbolt.


10. Provide with interlock feature as required.

11. Galvanized case and cover.

B. Maximum Security - Electrical Operation (Slide Gate):
1. Series/Manufacturer:
   a. 8055/Brink
   b. Folger Southern
c. Airteq
2. Fence post mounted 120VAC, continuous-duty solenoid actuated.
3. Deadlocks automatically when gate is closed.
4. Bolt is retracted electrically by push button at control panel and remains retracted until
door is opened.
5. Bolt is retracted manually by paracentric key on outside and/or inside.
6. See Detention Hardware Schedule for keying.
7. Bolt is retracted until relocked by key.
8. Internal switches monitor deadlocked condition of the deadbolt.
10. Provide with interlock feature as required.
11. Galvanized case and cover.

C. Maximum Security - Electric Swinging Door Operators:
1. Series/Manufacturer:
   a. 5022M/Brink – keyed hinge side
   b. 5026M/Brink – keyed both sides
   c. Southern Folger
   d. Airteq
2. Frame mounted, 120 VAC motor operated.
3. Bolt is retracted electrically by push button at control panel and remains retracted until
door is opened.
4. Bolt is retracted manually by key on outside and/or inside depending on which lock is
used.
5. See Detention Hardware Schedule for keying.
6. Bolt remains retracted until door is opened.
7. Internal switches monitor bolt status to show deadlocked and unlocked conditions.
8. Galvanized case and cover.

2.4 DETENTION MECHANICAL LOCKS

A. Maximum Security - Mechanical Operation: (slam cells)
1. Series/Manufacturer:
   a. 7070/Brink
   b. Southern Folger
   c. Airteq
2. Door mounted, paracentric key deadlocking latchbolt with three hardened steel pins.
3. Bolt is retracted manually by paracentric key on outside and/or inside.
4. See Detention Hardware Schedule for keying.
5. Supply with hollow metal lock mounting, escutcheon and security screws.
6. Provide strike as scheduled.
7. Provide galvanized case and cylinder shields at exterior

B. Medium Security - Mechanical Operation: (Storage door without monitoring)
1. Series/Manufacturer:
   a. 7080/Brink
   b. Southern Folger
   c. Airteq
2. Door mounted, paracentric key deadlocking latchbolt with three hardened steel pins.
3. Bolt is retracted manually by paracentric key on outside and/or inside.
4. See Detention Hardware Schedule for keying.
5. Supply with hollow metal lock mounting, escutcheon and security screws.
6. Provide strike as scheduled
7. Provide galvanized case and cylinder shields at exterior.

C. Medium Security - Mechanical Operation: (Mechanical Rooms with Monitoring)
1. Series/Acceptable Manufacturer:
   a. 1042-401/Brink
   b. Southern Folger
   c. Airteq
2. Install mortise in door.
4. See Detention Hardware Schedule for lock function.
5. Provide strike as scheduled.

D. Medium Security - Mechanical Operation: (Classroom Lock)
1. Series/Acceptable Manufacturer:
   a. 1062-601/Brink
   b. Southern Folger
   c. Airteq
2. Install mortise in door.
4. See Detention Hardware Schedule for lock function.
5. Provide strike as scheduled.

E. Video Visitation Lock:
1. Series/Manufacturer:
   a. 38H-L/Best
   b. Southern Folger
   c. Airteq
2. Door mounted deadbolt. Bolt is retracted manually by key on outside only. Provide strike.

2.5 CLOSERS

A. Manufacturers:
1. Sargent 278
2. LCN
3. Norton

B. Concealed Door Closer:
1. All closers for both interior and exterior doors shall be the product of one manufacturer and be matched in style
2. Full rack and pinion construction.
3. Closing speed, latching speed and backcheck shall be controlled by key operated valves.
4. Delayed action feature shall be available and controlled by a separate valve. Delayed action shall be available in addition to, not in lieu of, backcheck.
5. The one piece closer body shall be of close grained porous free cast iron
6. An increase of 15% in closing power shall be provided by means of adjustment of the arm leverage at the foot connection.
7. All arms shall be finely finished with heavy duty forged steel main arm.
8. The spindle shaft shall be sealed hydraulically with an "O" ring
10. The closer shall have a fully overhead concealed body with exposed forged steel arm
11. Closers should have two pressure relief valves standard (opening and closing cycles)
12. All closers have a 10 year limited warranty
13. Closers comply with UL-10C and UBC 7-2 (1997) Positive Pressure Fire Test

C. Surface Mounted Door Closer:

1. Surface mounted door closers shall be one manufacturer and carry a two year warranty.
2. A factory representative shall inspect closers after installation to insure proper adjustment and operation.
3. Spring power shall be adjustable. Spring power shall provide an opening force range of 8 to 15 pounds from 0 degrees to 90 degrees.
4. Closers shall have separate adjustments for latch speed, general speed and back check.
5. Closure shall be supplied with heavy duty rigid arms.
6. Surface mounted high security closers shall include a cast iron cylinder certified by an independent testing laboratory to exceed ten million (10,000,000) operating cycles, heavy gauge metal covers with four mounting screws and double lever arms manufactured to prevent disassembly.
7. Provide brackets, drop plates, spacer blocks and any accessory required to insure proper installation.

2.6 POSITION SWITCHES

A. Concealed Door Position Switch:

1. Manufacturer:
   a. 2214/LCN
2. The body shall be mortise into the door frame header.
3. The track shall be mortise into the top edge of door. Self concealing with low friction slider.
4. SPDT limit monitoring switch, rating 5 amps at 30 VDC to 250 VAC.
5. The internal switch shall be adjustable and shall be wired in series with the locking bolt in the security lock.
6. Adjust switch for minimum movement to activate.
7. Fasteners shall be torx-head (star design with center pin) security fasteners.

B. Keeper Switches:

1. Manufacturer:
   a. Norment/Airteq
   b. Brink
   c. Southern Folger
2. SPDT limit monitoring switch, rating 10 amps at 120 VAC.
3. All manual locks shall utilize keeper switches.
4. Fasteners shall be torx-head (star design with center pin) security fasteners.
2.7 DOOR ACCESSORIES

A. Push Plates:
   1. Series/Manufacturer:
      a. 1456/Hiawatha
   2. 3/16" thick stainless steel.
   3. 3 2" W. x 16" H. with 7/8" lip projection at bottom.
   4. Attach with stainless steel security rivets.

B. Pull - Loop:
   1. Series/Manufacturer:
      a. 601/NW
      b. 300021/Brink
   2. Cast bronze, satin chrome plated.
   3. Dimensions 8 3/4" long x 1 2" clearance.
   4. Fasteners shall be torx-head (star design with center pin) security fasteners.

C. Pull - Flush:
   1. Series/Manufacturer:
      a. 602/NW
      b. 300011/Brink
   2. Cast bronze, satin chrome plated.
   3. Dimensions 4" wide x 5" high x 1" depth.
   4. Fasteners shall be torx-head (star design with center pin) security fasteners.

D. Kickplates:
   1. Manufacturer:
      a. Rockwood
   2. Kickplates shall be .050 stainless steel with eased edges.
   3. 10 inches high (except reduce height 2 inch less than bottom rail when required) x 2 inches less than door width on singles and 1 inch less on pairs.
   4. Attach with stainless steel security rivets.

E. Door Stops:
   1. Black silicone rubber bumper 2" diameter, mounted on a 5/8" x 2 1/2" steel shank for permanent attachment in grout filled masonry or concrete.

F. Thresholds:
   1. Manufacturer:
      a. Pemko
      b. Reese
      c. National
   2. Fasteners shall be stainless steel torx-head (star design with center pin) security fasteners with expansion anchors.

G. Weatherstripping/Smoke Seals:
   1. Model/Manufacturer:
      a. 315CR/Pemko
      b. DS78C/Reese
      c. 130NA/National
2. Extruded clear anodized aluminum with neoprene seal.
3. Secured with stainless steel, torx-head (star design with center pin) security screws.

H. Automatic Door Bottom:
1. Model/Manufacturer:
   a. 4131/Pemko
2. Surface mounted type, clear anodized aluminum, cam-actuated drop down vinyl seal, with spring mechanism return.
3. Secured with stainless steel, torx-head (star design with center pin) security screws.

I. Head Drip:
1. Model/Manufacturer:
   a. R201/Reese
2. Extruded clear anodized aluminum.
3. Secured with stainless steel, torx-head (star design with center pin) security screws.
4. All exterior doors shall have head drips, whether or not scheduled.

2.8 FINISHES

<table>
<thead>
<tr>
<th>Component</th>
<th>US Symbol</th>
<th>ANSI Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinges, Exterior</td>
<td>US32D</td>
<td>630</td>
<td>Satin Stainless Steel</td>
</tr>
<tr>
<td>Hinges, Interior</td>
<td>US26D</td>
<td>626</td>
<td>Satin Chrome</td>
</tr>
<tr>
<td>Locks &amp; Pulls</td>
<td>US26D</td>
<td>626</td>
<td>Satin Chrome</td>
</tr>
<tr>
<td>Closers</td>
<td>AL</td>
<td>689</td>
<td>Aluminum Painted</td>
</tr>
<tr>
<td>Push &amp; Kick plates</td>
<td>US32D</td>
<td>630</td>
<td>Satin Stainless Steel</td>
</tr>
<tr>
<td>Strike Plates</td>
<td>US32D</td>
<td>630</td>
<td>Satin Stainless Steel</td>
</tr>
</tbody>
</table>

2.9 CYLINDERS, KEYS AND KEYING

A. The detention locks will incorporate two (2) separate keying systems; one for lever tumbler (Paracentric) and one for pin tumbler (mogul cylinder) locks. Each keying system's keys shall be die stamped for identification; corresponding to the Detention Equipment Contractor's final schematic keying chart.

B. Lever tumbler locks shall be keyed alike or different as directed. Provide cut keys as required.

C. Mogul cylinder locks shall be master keyed as directed. Provide cut change keys, and master keys as required.

D. For each individual key cabinet, provide the following:
   1. For all individual key designations, there shall be three (3) keys each.
   2. For each Master Key designations (A,B,...etc.), there shall be five (5) keys each.

E. A complete, detailed schematic chart of the keying system will be required. The Detention Equipment Contractor will also be required to enter the key symbols for all doors on additional floor plans which will be supplied by the Architect. Two (2) copies of the schematic keying chart and architectural floor plans shall be turned over to the user at the completion of the project. The cost for this service shall be included with the cost of materials at the time of
bidding.

F. The key schedule is confidential information known only to the Institution, Architect, and lock manufacturer. The Architect shall arrange to meet with the Institution to determine the keying schedule. The lock manufacturer shall deliver keys directly to the Institution (signature required), and provide confirmation of delivery to the Contractor.

G. Keys shall not leave the manufacturer's custody without prior arrangements for delivery and authorization from the Owner.

H. All paracentric keys will be furnished with a key shield

I. After Owner review of initial keying submittal, final keying, master keying and quantities of keys will be determined at joint meeting of Owner, Architect and Hardware Subcontractor. Conduct meeting at project site. Schedule, notify and coordinate three weeks before meeting.

J. At a minimum for initial keying submittal, key locks alike for each of the following groups:
   1. Plumbing Chases
   2. Emergency Fire Exits
   3. Program and Service Areas
   4. Mechanical and Electrical
   5. Staff Toilet
   6. Food Passes/Cuff Ports
   7. Fire Extinguisher Cabinets
   8. Janitor Storage
   9. Cells per housing pod.
  10. Holding Rooms
  11. Fire Hose Cabinets

2. At a minimum for initial keying submittal, Key following groups differently:
   1. Emergency Release Cabinets
   2. Control Room Entrance
   3. Sallyports
   4. Provide six keys for each of these groups

2.10 KEY CABINET AND CONTROL

A. Key control system shall be furnished only and have a capacity of 1.75 times the number of individual key designations and shall be a complete dual tag system. Similar to TelKee Big Head system, consists of a cabinet, tabs, hook labels, receipt forms, visible index software.

B. Cabinet shall have concealed-type hinge and rounded sides, lock with keys.

C. Panels must have individual hook and label pockets formed as an integral part of the panel, for both paracentric and mogul key types, as required.

D. Tags of two types shall be provided, one set for permanent attachment of file key without the use of tools and the other set with snap hook holding at least four keys.
E. Indexing software shall be provided only and is for owners installation and use.

F. Permanent Loan Registry shall be furnished to protect identity of key borrowers while Receipt Tabs shall be supplied for temporary loan.

2.11 DETENTION EQUIPMENT ACCESSORIES

A. Provide accessories, anchorage inserts and security fasteners for a complete, tamperproof installation.

B. Exposed Security Fasteners:
   1. Provide torx-pin head security fasteners for anchoring work in exposed detention areas.
   2. Finish shall match that specified of the item anchored.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before installation.

C. Notify the General Contractor in writing of conditions detrimental to the proper and timely completion of the work.

D. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Expenses carried by the Architect/Engineer, Project Manager or Owner in troubleshooting equipment problems caused by inadequate workmanship or other form of poor performance on the part of the Contractor, shall be borne by the Contractor.

B. Install Detention Hardware in accordance with shop drawings, manufacturer's written installation instructions, and as herein specified.

C. Installation shall be under supervision of manufacturer approved personnel.

D. Mounting Heights: Heights given are center line heights up from finish floor unless stated; heights given "Number to Number" indicate that all shall be at one height within limits given. Where heights of items are not listed, mount in accord with recommendations of DHI.
   1. Bottom hinge 10 to 13 inches
2. Top hinge 6 to 8 inches down from head
3. Intermediate hinges Equally spaced
4. Detention lock 40 inches to centerline of lockbolt
5. Door pull 50 inches to centerline of grip
6. Flush pull 50 inches to centerline of grip
7. Push plate 56 inches to centerline of plate

E. Fitting: Fit hardware accurately and properly. Remove exposed parts until after painter's finishing is completed, then reinstall. Securely fasten all fixed parts. Fit faces of mortised parts snug and flush. Make sure operating parts move freely and smoothly without binding, sticking or excessive clearance.

F. Adjusting and Finishing: After work has been otherwise completed, examine hardware for complete and proper installation. Lubricate bearing surfaces of moving parts. Adjust latching and holding devices to proper function. Adjust door control devices to proper speed and power. Test keys for conformance to approved keying system. Clean exposed surfaces, check for surface damage and polish.

G. Thresholds: Install in one continuous piece, full width of opening. Set in full bed of mastic and fasten with countersunk anchors at 6 inches on center.

3.3 DEFECTIVE WORK

A. Where hardware is found defective in materials or installation; rework, restore, replace or otherwise correct as directed.

B. Following will be considered as defective materials:
   1. Unauthorized substitutes.
   2. Items delivered with missing, broken, damaged or defaced parts.
   3. Items of incorrect hand or function.

C. Following will be considered as defective installation:
   1. Items broken, damaged, or defaced after delivery.
   2. Items incomplete, misaligned or incorrectly located.

3.4 SPARE PARTS

A. Shall be provided for the Owners' stock as follows:
   1. 6 Locks 10120AP
   2. 6 Mogul Cylinders
   3. 12 Solenoid valves
   4. 6 Swing door Position Switches
   5. 6 Keeper Switches

3.5 HARDWARE SCHEDULE
A. Provide hardware, conforming to Project Specifications as scheduled on drawings:

END OF SECTION 111953
### Hardware Set S01 – Not Used

### Hardware Set S01A – Cell Swing Door w/ Food Pass

Each door to receive:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
<th>Type</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Hinge</td>
<td>NW645</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>FP Hinge</td>
<td>NW631</td>
<td>USP</td>
</tr>
<tr>
<td></td>
<td>Elec Jamb Lock</td>
<td>5022M</td>
<td>USP</td>
</tr>
<tr>
<td></td>
<td>FP Lock</td>
<td>7017</td>
<td>USP</td>
</tr>
<tr>
<td></td>
<td>Loop Pull</td>
<td>NW601</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Flush Pull</td>
<td>NW602</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Floor/Wall Stop</td>
<td>NW606</td>
<td>Black</td>
</tr>
<tr>
<td>3</td>
<td>Silencers</td>
<td>608</td>
<td>Rockwood</td>
</tr>
<tr>
<td></td>
<td>Concealed DPS</td>
<td>201030</td>
<td>US32D</td>
</tr>
</tbody>
</table>

### Hardware Set S02 – Slam Cell w/ Food Pass

Each door to receive:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
<th>Type</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Hinge</td>
<td>NW645</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>FP Hinge</td>
<td>NW631</td>
<td>USP</td>
</tr>
<tr>
<td></td>
<td>Slam Lock</td>
<td>7076-</td>
<td>US26D</td>
</tr>
<tr>
<td></td>
<td>FP Lock</td>
<td>7017</td>
<td>USP</td>
</tr>
<tr>
<td></td>
<td>Loop Pull</td>
<td>NW601</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Flush Pull</td>
<td>NW602</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Loop Pull</td>
<td>NW606</td>
<td>Black</td>
</tr>
<tr>
<td></td>
<td>Flush Pull</td>
<td>NW602</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Threshold</td>
<td>896V-</td>
<td>AL</td>
</tr>
<tr>
<td>1</td>
<td>Gasketing</td>
<td>5050C</td>
<td>Char</td>
</tr>
<tr>
<td></td>
<td>Spares</td>
<td>608</td>
<td>Grey</td>
</tr>
</tbody>
</table>

### Hardware Set S02A – Not Used

### Hardware Set S02B – S02 w/ Gasketing

Each door to receive:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
<th>Type</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Hinge</td>
<td>NW645</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>FP Hinge</td>
<td>NW631</td>
<td>USP</td>
</tr>
<tr>
<td></td>
<td>Slam Lock</td>
<td>7076-</td>
<td>US26D</td>
</tr>
<tr>
<td></td>
<td>FP Lock</td>
<td>7017</td>
<td>USP</td>
</tr>
<tr>
<td></td>
<td>Loop Pull</td>
<td>NW601</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Flush Pull</td>
<td>NW602</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Threshold</td>
<td>896V-</td>
<td>AL</td>
</tr>
<tr>
<td>1</td>
<td>Gasketing</td>
<td>5050C</td>
<td>Char</td>
</tr>
<tr>
<td></td>
<td>Spares</td>
<td>608</td>
<td>Grey</td>
</tr>
</tbody>
</table>

### Hardware Set S02C – S02B w/out FoodPass

Each door to receive:

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
<th>Type</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Hinge</td>
<td>NW645</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Slam Lock</td>
<td>7076-</td>
<td>US26D</td>
</tr>
<tr>
<td></td>
<td>Loop Pull</td>
<td>NW601</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Flush Pull</td>
<td>NW602</td>
<td>US32D</td>
</tr>
<tr>
<td></td>
<td>Threshold</td>
<td>896V-</td>
<td>AL</td>
</tr>
<tr>
<td>1</td>
<td>Gasketing</td>
<td>5050C</td>
<td>Char</td>
</tr>
<tr>
<td></td>
<td>Spares</td>
<td>608</td>
<td>Grey</td>
</tr>
</tbody>
</table>
Hardware Set S03 – Chase Door

Each door to receive:

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Model/Make/Part Number</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>1</td>
<td>Continuous by Door Mfr</td>
<td>USP</td>
<td>Other</td>
</tr>
<tr>
<td>Deadbolt</td>
<td>1</td>
<td>7012-ESC (1-Way)</td>
<td>USP</td>
<td>RR Brink</td>
</tr>
</tbody>
</table>

Hardware Set S04 – Dayroom Swing Door

Each door to receive:

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Model/Make/Part Number</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>3</td>
<td>NW 645 FMST</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Deadbolt</td>
<td>1</td>
<td>7012-ESC (1-Way)</td>
<td>USP</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Loop Pull</td>
<td>1</td>
<td>NW 601</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Flush Pull</td>
<td>1</td>
<td>NW 602</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Loop (conceal)</td>
<td>1</td>
<td>2214 DPS</td>
<td>AL</td>
<td>LCN</td>
</tr>
<tr>
<td>Floor/Wall Stop</td>
<td>3</td>
<td>NW 606</td>
<td>Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>Silencers</td>
<td>1</td>
<td>608</td>
<td>Grey</td>
<td>Rockwood</td>
</tr>
</tbody>
</table>

Hardware Set S04A – Dayroom Swing Door w/ Food Pass

Each door to receive:

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Model/Make/Part Number</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>3</td>
<td>NW 645 FMST</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>FP Hinge</td>
<td>2</td>
<td>NW 631 FPB</td>
<td>USP</td>
<td>Northwest</td>
</tr>
<tr>
<td>Elec Jamb Lock</td>
<td>1</td>
<td>5026M-MLSLH-24VDC</td>
<td>USP</td>
<td>RR Brink</td>
</tr>
<tr>
<td>FP Lock</td>
<td>1</td>
<td>7017</td>
<td>USP</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Loop Pull</td>
<td>1</td>
<td>NW 601</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Flush Pull</td>
<td>1</td>
<td>NW 602</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Loop (conceal)</td>
<td>1</td>
<td>2214 DPS</td>
<td>AL</td>
<td>LCN</td>
</tr>
<tr>
<td>Floor/Wall Stop</td>
<td>1</td>
<td>NW 606</td>
<td>Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>Silencers</td>
<td>3</td>
<td>608</td>
<td>Grey</td>
<td>Rockwood</td>
</tr>
</tbody>
</table>

Hardware Set S04B – (S04 w/ Gasketing and Threshold)

Each door to receive:

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Model/Make/Part Number</th>
<th>Manufacturer</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>3</td>
<td>NW 645 FMST</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Elec Jamb Lock</td>
<td>1</td>
<td>5026M-MLSLH-24VDC</td>
<td>USP</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Loop Pull</td>
<td>1</td>
<td>NW 601</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Flush Pull</td>
<td>1</td>
<td>NW 602</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Loop (conceal)</td>
<td>1</td>
<td>2214 DPS</td>
<td>AL</td>
<td>LCN</td>
</tr>
<tr>
<td>Floor/Wall Stop</td>
<td>1</td>
<td>NW 606</td>
<td>Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>Threshold</td>
<td>1</td>
<td>896V-36” x Torx</td>
<td>AL</td>
<td>National Guard</td>
</tr>
<tr>
<td>Gasketing</td>
<td>1</td>
<td>5050C-17”</td>
<td>Char</td>
<td>National Guard</td>
</tr>
<tr>
<td>Silencers</td>
<td>3</td>
<td>608</td>
<td>Grey</td>
<td>Rockwood</td>
</tr>
</tbody>
</table>

Hardware Set S05 – Not Used
## Hardware Set S06 – Dayroom Communicating Doors

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>3</td>
<td>NW 645 FMST US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Elec Jamb Lock</td>
<td>1</td>
<td>5026M-MSLH-24VDC USP</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Flush Pull</td>
<td>2</td>
<td>NW 602 US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Closer (conceal)</td>
<td>1</td>
<td>2214 DPS AL</td>
<td>LCN</td>
</tr>
<tr>
<td>Floor/Wall Stop</td>
<td>1</td>
<td>NW 606 Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>Threshold</td>
<td>1</td>
<td>8135V-36” x Torx AL</td>
<td>National Guard</td>
</tr>
<tr>
<td>Silencers</td>
<td>3</td>
<td>608 Grey</td>
<td>Rockwood</td>
</tr>
</tbody>
</table>

## Hardware Set S07 – Storage Door w/out Monitoring

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>3</td>
<td>NW 645 FMST US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Mech Lock</td>
<td>1</td>
<td>7086-HM MTG-7080KD USP</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Floor/Wall Stop</td>
<td>1</td>
<td>NW 606 Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>Silencers</td>
<td>3</td>
<td>608 Grey</td>
<td>Rockwood</td>
</tr>
</tbody>
</table>

## Hardware Set S08 – Mechanical Room Doors w/ Monitoring

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>3</td>
<td>NW 645 FMST US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Mech Lock</td>
<td>1</td>
<td>1042-401 x Lever Eskort 26D</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Keeper Switch</td>
<td>1</td>
<td>201040 US32D</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Closer (conceal)</td>
<td>1</td>
<td>2214 DPS AL</td>
<td>LCN</td>
</tr>
<tr>
<td>Floor/Wall Stop</td>
<td>1</td>
<td>NW 606 Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>Silencers</td>
<td>3</td>
<td>608 Grey</td>
<td>Rockwood</td>
</tr>
</tbody>
</table>

## Hardware Set S08A – (S08 w/ Classroom Lock)

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>3</td>
<td>NW 645 FMST US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Mech Lock</td>
<td>1</td>
<td>1062-601 x Lever Eskort 26D</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Floor/Wall Stop</td>
<td>1</td>
<td>NW 606 Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>Silencers</td>
<td>3</td>
<td>608 Grey</td>
<td>Rockwood</td>
</tr>
</tbody>
</table>

## Hardware Set S09 – Exterior Door

<table>
<thead>
<tr>
<th>Item</th>
<th>Quantity</th>
<th>Description</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge</td>
<td>3</td>
<td>NW 645 FMST US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Elec Jamb Lock</td>
<td>1</td>
<td>5026M-MSLH-24VDC USP</td>
<td>RR Brink</td>
</tr>
<tr>
<td>Loop Pull</td>
<td>2</td>
<td>NW 601 US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>Closer (conceal)</td>
<td>1</td>
<td>2214 DPS AL</td>
<td>LCN</td>
</tr>
<tr>
<td>Floor/Wall Stop</td>
<td>1</td>
<td>NW 606 Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>Threshold</td>
<td>1</td>
<td>425V-36” x Torx AL</td>
<td>National Guard</td>
</tr>
<tr>
<td>Gasketing</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sweep</td>
<td>1</td>
<td>600A-36” AL</td>
<td>National Guard</td>
</tr>
</tbody>
</table>
### Hardware Set S10 – Not Used

### Hardware Set S11 – Sallyport / Exit Door

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
<th>Model/Part Number</th>
<th>Manufacturer/Supplier</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Hinge</td>
<td>NW 645 FMST</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>1</td>
<td>Elec Jamb Lock</td>
<td>5026M-MSLH-24VDC</td>
<td>USP</td>
<td>RR Brink</td>
</tr>
<tr>
<td>1</td>
<td>Loop Pull</td>
<td>NW 601</td>
<td>US32D</td>
<td>Northwest</td>
</tr>
<tr>
<td>1</td>
<td>Closer (conceal)</td>
<td>2214 DPS</td>
<td>AL</td>
<td>LCN</td>
</tr>
<tr>
<td>1</td>
<td>Floor/Wall Stop</td>
<td>NW 606</td>
<td>Black</td>
<td>Northwest</td>
</tr>
<tr>
<td>3</td>
<td>Silencers</td>
<td>608</td>
<td>Grey</td>
<td>Rockwood</td>
</tr>
</tbody>
</table>
POND BOTTOM = 4880.00
POND TOP = 4881.50
MWSEL = 4881.00
### Booster Pump Schedule

<table>
<thead>
<tr>
<th>MARK</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>SYSTEM CAPACITY</th>
<th>MINIMUM SUCTION PRESSURE</th>
<th>MAXIMUM SUCTION PRESSURE</th>
<th>PUMP 1</th>
<th>PUMP 2</th>
<th>PRESSURIZED BLADDER TANK</th>
<th>ELECTRICAL</th>
<th>ACCESSORIES/REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP-1</td>
<td>CANAMAR CORPORATION</td>
<td>DRL27/30.3V5</td>
<td>210 GPM</td>
<td>35 PSI</td>
<td>137 GPM AT 46 FT HEAD</td>
<td>132 GAL</td>
<td>240</td>
<td>3</td>
<td>60</td>
<td>VARIABLE FREQUENCY DRIVES FOR PUMPS. FACTORY ASSEMBLED WITH SERVICE BUTTERFLY VALVES AND PRESSURE GAUGES ON SUCTION AND DISCHARGE. EACH DISCHARGE SHALL HAVE INLET/OUTLET CHECK VALVE, PRESSURE Switch/THREAT WARNING, CONTROL PANEL.</td>
</tr>
</tbody>
</table>

### Gas Water Heater Schedule

<table>
<thead>
<tr>
<th>MARK</th>
<th>MANUFACTURER</th>
<th>MODEL</th>
<th>CAPACITY (GAL.)</th>
<th>HEAT INPUT (BTU/H)</th>
<th>THERMAL EFFICIENCY</th>
<th>GAS PRESSURE MIN (IN W.C.)</th>
<th>GAS PRESSURE MAX (IN W.C.)</th>
<th>GAS CONNECTION (IN)</th>
<th>RECOVERY GPH @ 100°F RISE</th>
<th>OPERATING TEMP</th>
<th>WATER INLET/OUTLET SIZE</th>
<th>JACKETED AND INSULATED STORAGE TANK</th>
<th>ELECTRICAL</th>
<th>ACCESSORIES/REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>W9-1</td>
<td>STATE INDUSTRIES</td>
<td>SUF118 KOHLER</td>
<td>300,000</td>
<td>110</td>
<td>4.8</td>
<td>14.0</td>
<td>1/2</td>
<td>174</td>
<td>140 deg.</td>
<td>1 1/2</td>
<td>1 x 300 GAL.</td>
<td>120</td>
<td>50</td>
<td>CONCENTRIC VENT WEL</td>
</tr>
</tbody>
</table>

**NOTES:**
1. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATE AND COMPENSATING OTHER TRADES FOR INCREASED ELECTRICAL, GAS, ETC. REQUIREMENTS WHICH MAY OCCUR FROM USING OTHER ACCEPTABLE EQUIPMENT.
2. PROVIDE WITH POWER VENT DSSION.
3. PROVIDE VIEW WITH CONCENTRIC TERMINAL.
1. DIMENSIONS ARE TO THE FACE OF CONCRETE OR GRID LINE UNLESS NOTED OTHERWISE.
2. SEE ARCHITECTURAL DRAWINGS FOR STAIR CONFIGURATIONS AND DIMENSIONS.
3. SEE SHEET S-601 FOR SCHEDULE.
4. PRE-ENGINEERED CELLS BY OTHERS.
5. L4x4x3/8 BRACE AT 6'-0" ON CENTER MAXIMUM.

STUDIO SOUTHWEST ARCHITECTS, INC.
2101 Mountain Rd. NW, Albuquerque, NM 87104
505.843.9639  fax 505.843.9683
Web Site: www.studioswarch.com  E-Mail: mail@studioswarch.com

SOCORRO COUNTY
DETENTION CENTER

MEZZANINE AND MASONRY WALL PLAN

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

A1 MEZZANINE AND MASONRY WALL PLAN

MARK DATE DESCRIPTION
06-26-14 ADDENDUM #3