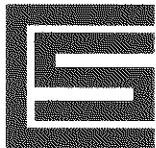




## Gaston County Jail Expansion

September 18, 2017

Project No. 1570



**Stewart · Cooper · Newell · Architects**

Architecture

Planning

Interiors

719 east second ave.  
gastonia, nc 28054  
phone: 704.865.6311  
fax: 704.865.0046

1.800.671.0621  
[www.scn-architects.com](http://www.scn-architects.com)

2016 sumter street ste.202  
columbia, sc 29201  
phone: 803.765.9011  
fax: 803.765.2011



---

| SECTION                             | Page |
|-------------------------------------|------|
| TABLE OF CONTENTS                   | i-i  |
| SUMMARY                             | 1-1  |
| FACILITY ASSESSMENT                 | 2-1  |
| Introduction                        |      |
| Current Space Issues                |      |
| Space Issues Analysis               |      |
| Existing Jail Floor Plans           |      |
| 1. 1 <sup>st</sup> Floor            |      |
| 2. 2 <sup>nd</sup> Floor/Mezzanine  |      |
| 3. 3 <sup>rd</sup> Floor            |      |
| 4. 4 <sup>th</sup> Floor            |      |
| NEW CELL INSTALLATION               | 3-1  |
| SHOWER AND TOILET DOOR CHANGES      | 4-1  |
| POSSIBLE SOWER CHANGES              | 5-1  |
| JAIL FLOOR PLANS (Phase I,II & III) | 6-1  |
| Site Plan                           |      |
| First Floor Plan                    |      |
| Second Floor Plan                   |      |
| Enlarged First Floor Plan           |      |
| Enlarged Second Floor Plan          |      |

## GASTON COUNTY JAIL EXPANSION STUDY

---



## 1 - Summary

---

**SUMMARY**

This report presents the findings of a study performed for Gaston County detailing the facility needs of the Gaston County Jail. The study was undertaken by Stewart – Cooper – Newell Architects, Gastonia, NC. It was performed as a collaborative effort between the county staff, the sheriff and staff and the architect. Much data, on-site dialog, analysis, and facility reviews allowed for the proper sharing of information that allows this document to accurately reflect the current and future needs of the Gaston County Jail Facility.

As is detailed and expanded upon in the following sections, Gaston County has and is continuing to experience growth. The growth indicated in past historical data has required county facilities to grow and change to meet the demands of the population, which has put pressure on both its physical facilities and its personnel.

The population of Gaston County as a whole may increase at a rate significantly higher than the historical trends; depending on the effect growth from Charlotte has over the upcoming 20 years.

The current 176,758 square foot facility has served the county well for almost 20 years; but, because of the current demands, it is no longer able to provide the space that the jail requires. This report outlines the specific space needs and the recommendations of how best to meet these needs. The following data summarizes the details that follow.

The study of the facility along with the understanding of budget restraints has led to the conclusion that the projects should be broken into three phases which vary from the previous 2006 study. It is extremely important to understand that jails are very expensive to build and over the long term cost much more to operate and maintain. The initial construction needs to be as durable and maintenance free as possible. They must be able to function 24 hours a day, every day, for years.

The Three Phases are as follows:

- Phase I –     Install 30, 2-man cells.  
                  Install 12, 1-man cells in 'A' Block  
                  Total added Bed Count – 72
- Phase II –     Expansion of Kitchen, Storage, Medical,  
                  Classrooms, Property Storage, Dining Space,  
                  Locker Rooms and Administrative Area for  
                  additional staff.
- Phase III –    Addition of 224 additional cells adding 440 beds  
                  plus associated utilities and staff areas.

PHASE 1 – Description of the work

The installation of 30- two man cells, the installation of 12- one man cells in "A" Block, all to be located in the 4 first floor recreational areas. The cells will be 2" thick concrete filled panel components as manufactured by TRUSSBILT. There is only one manufacturer of this type of cell.

The cells components will be brought in thru an opening cut in the exterior wall below the fresh air louvers. An access door and frame will be anchored in the opening to allow staff access to plumbing, mechanical, electrical, sprinkler and security equipment for future maintenance. Due to the age of all of the Security Electronic Systems, it will be replaced.

The pod showers and toilet doors should be replaced and the walls and the ceilings need to be redone. In addition, new plumbing, mechanical, electrical and fire protection will need to be installed.

General capital improvements will be needed as well.

Preliminary Conceptual Budget for the addition of 30-two bed cells and 12 single bed cells.

This budget was derived from information and cost obtained from various detention equipment manufacturers and suppliers. This is not intended to be a substitute for the Completion of Construction Documents and Competitive bids received from General Contractors, Sub-contractors and Detention Equipment Sub-Contractors.

| DESCRIPTION  | COST                  |
|--|-----------------------|
| 1. <i>Site Work</i>  | \$ 60,000.00          |
| 2. <i>Exterior Doors</i>   | \$ 108,000.00         |
| 3. <i>Cells</i>  | \$2,618,000.00        |
| 4. <i>Electronics/Security</i>                                       | \$475,000.00          |
| 5. <i>Walls Above Cells</i>  | \$66,250.00           |
| 6. <i>Ceilings</i>   | \$10,000.00           |
| 7. <i>Shower and Toilet Doors</i>                                    | \$160,000.00          |
| 8. <i>Miscellaneous Capital needs</i>                                | \$732,000.00          |
| 9. <i>Plumbing, Mechanical, Electrical<br/>&amp; Fire Protection</i> | \$1,995,000.00        |
| 10. <i>Security Gate Revision</i>                                    | \$250,000.00          |
| <i>Sub-total</i>   | \$6,474,250.00        |
| <i>Contingency 10%</i>   | \$647,425.00          |
| <i>Sub-total</i>   | \$7,121,675.00        |
| <i>Fees 8%</i>   | \$569,734.00          |
| <b>TOTAL CONCEPTUAL BUDGET</b>                                       | <b>\$7,691,409.00</b> |

# GASTON COUNTY JAIL EXPANSION STUDY

# SUMMARY

| Conceptual Budget Breakdown:                                     |                |   |                |
|--|----------------|---|----------------|
| 1. Site Work   | \$60,000.00    | A. Walls (Metal Studs @ 16" O.C., Security Mesh – 2 sides, 5/8" Type 'X' Gyp. BD. – 2 Sides ,5 1/2" insulation) | \$26,520.00    |
| A. Grading   |                | B. Caulk & Paint  | \$40,000.00    |
| B. Building Protection   |                | 6. Ceilings   | \$10,000.00    |
| C. Fencing   |                | 7. Shower & Toilet Door   | \$160,000.00   |
| D. Gravel  |                | A. Toilet & Shower door replacement (all Stainless Steel)   |                |
| E. Clean-up  |                | 8. Misc. Needs  | \$732,000.00   |
| F. Grassing  |                | A. Kitchen Equipment  | \$95,000.00    |
| 2. Exterior Doors  | \$108,000.00   | B. Food Carts   | \$92,000.00    |
| A. Mech. Room Exterior doors and panels, Stainless Steel & frame | \$32,000.00    | C. Hot water Heater   | \$90,000.00    |
| B. Hardware (Stainless Steel)                                    | \$20,000.00    | D. Security window in Pod control replacement   | \$54,000.00    |
| C. Labor   | \$12,000.00    | E. Door operating Pod control stations  | \$32,000.00    |
| D. Cut Precast OPG.  | \$12,000.00    | F. Shower resurfacing   | \$160,000.00   |
| E. SS Flashing   | \$8,000.00     | G. Back-up Air Compressor, Piping, Controls   | \$10,000.00    |
| F. Anchors   | \$8,000.00     | H. Securepass Body Scanner  | \$199,000.00   |
| 3. Cells   | \$2,618,000.00 | 9. P.M.E & FP   | \$1,995,000.00 |
| A. Cells (42) & Decks & Stairs                                   | 2,242,000.00   | A. Plumbing   | \$300,000.00   |
| B. Security Caulking   | \$40,000.00    | B. Mechanical   | \$900,000.00   |
| C. Painting  | \$120,000.00   | C. Electrical   | \$575,500.00   |
| D. Equipment Rental  | \$120,000.00   | D. Fire Protection  | \$120,000.00   |
| E. Concrete & Pumping  | \$80,000.00    | E. Smoke Removal  | \$100,000.00   |
| F. Welding & Finishing   | \$16,000.00    | 10. Security Gate   | \$250,000.00   |
| 4. Electronics   | \$475,200.00   | A. Sliding Gate with Overhead track   |                |
| A. Complete upgrade for Security and Electronics                 |                |   |                |
| 5. Wall above cells  | \$66,520.00    |   |                |

## PHASE 2 – Description of the work

Due to financial restraints, it will be necessary to build Phase II at some date in the future.

The work of Phase II will be an expansion of first floor areas which will include the Kitchen, Walk-in Cooler and Freezer, Warehouse space, Commissary, Staff dining and support areas.

On the second floor the medical space would be substantially expanded to accommodate both present and future population growth. The administration has expanded and with a growth in jail population would necessarily need additional space for staff offices, training classrooms, conference room and staff support space.

Phase II should be constructed prior expanding the jail population in Phase III and would be added to the North side of the building.



North Elevation

## Preliminary Conceptual Budget

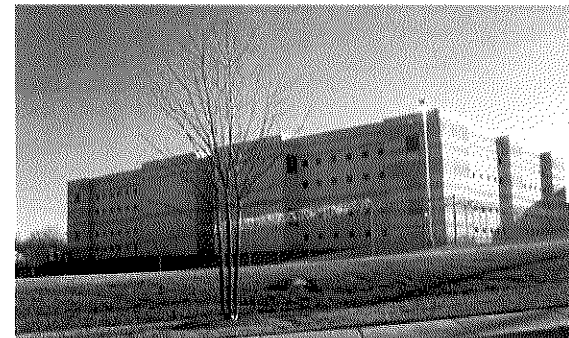
|                              |             |
|------------------------------|-------------|
| 1 <sup>st</sup> Floor Area – | 18,600 S.F. |
| 2 <sup>nd</sup> Floor Area – | 17,200 S.F. |
| Total Area:                  | 35,800 S.F. |
| Projected Cost per S.F.:     | \$375.00/SF |

**Preliminary Conceptual Budget: \$13,425,000.00**

## PHASE 3 – Gaston County Jail Expansion

The actual size and the number of cells and necessary support spaces have not been determined at the time of this study. The actual need will be based on future growth projections and programming.

The 2006 study projected a need for 224 additional cells adding 440 beds plus associated utilities and staff areas. This would be added to the west side of the existing building.

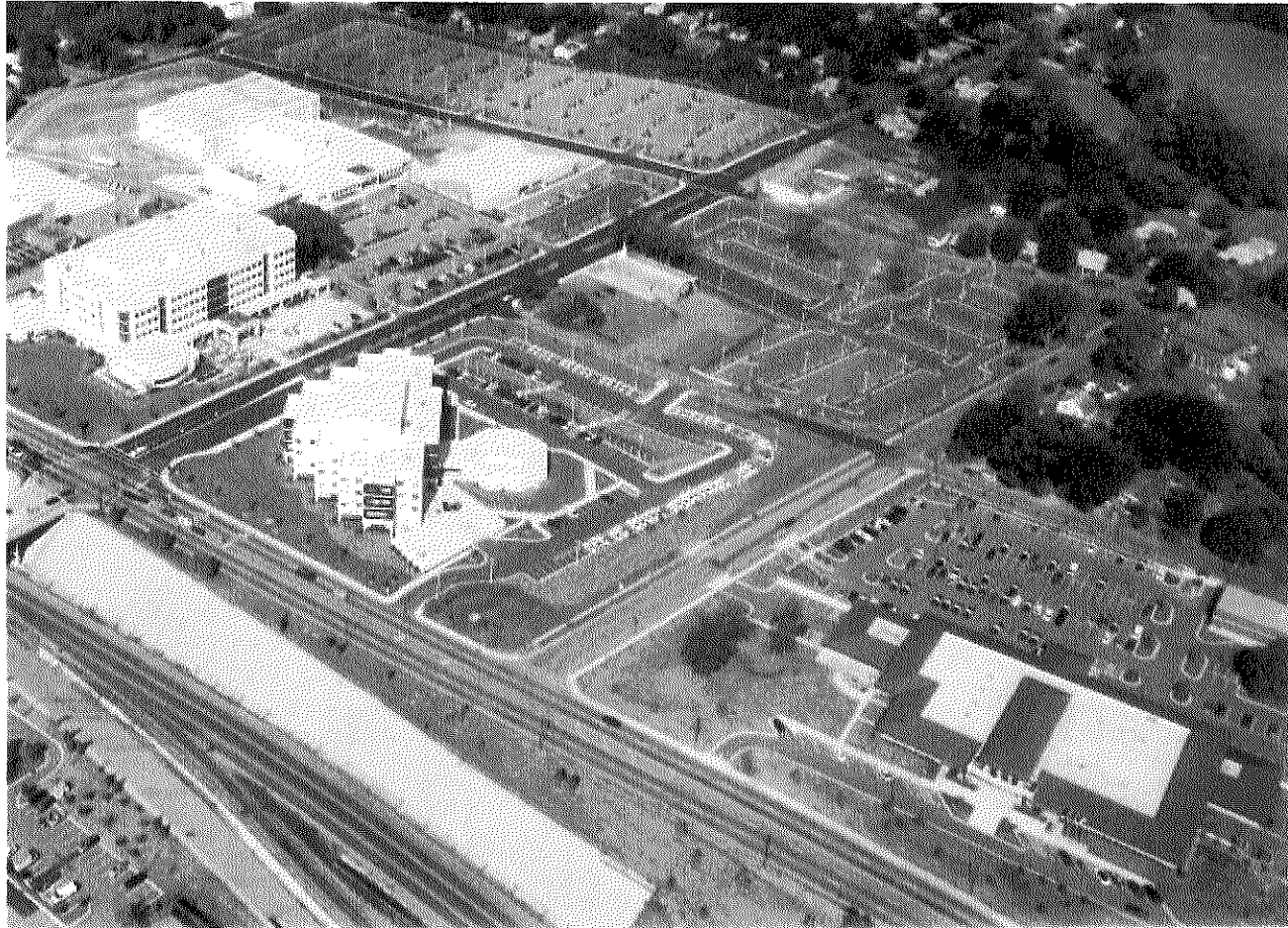


West Elevation



## GASTON COUNTY JAIL EXPANSION STUDY

---



**September 18, 2017**

**2- Facility Assessment**



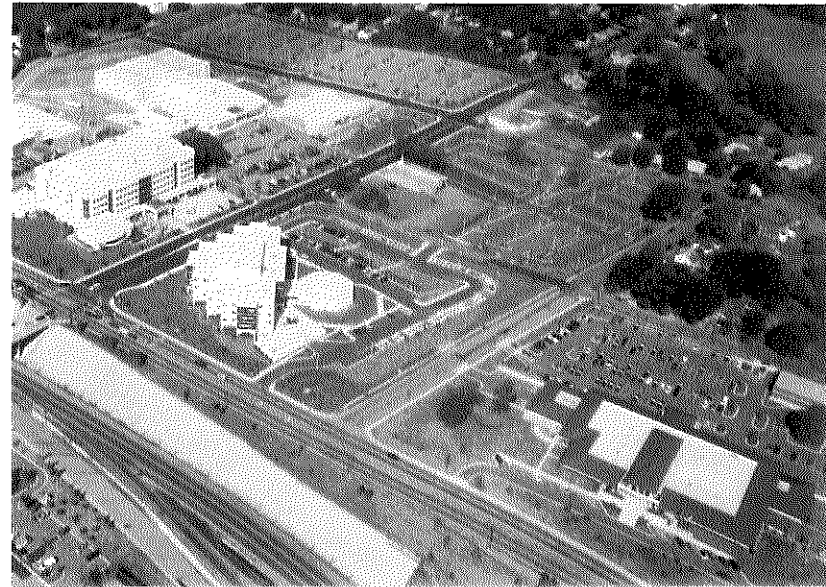
## INTRODUCTION



Gaston County Jail Front Elevation

The Gaston County Jail is part of the Judicial and Governmental Complex that was completed in 1999. The Sheriff's Office contains all the administrative functions needed for the department to function efficiently at the time it was completed and for approximately 20 years in the future depending on population growth.

The existing facility was reviewed as part of this study. This review was to ascertain how the existing facility can be renovated and enlarged to provide additional housing for detainees within the existing structure.

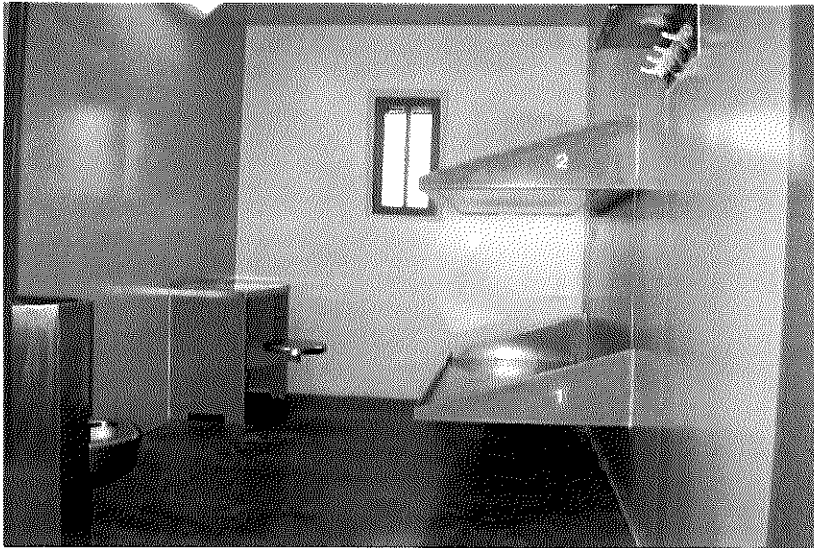


Judicial and Governmental Complex Aerial View

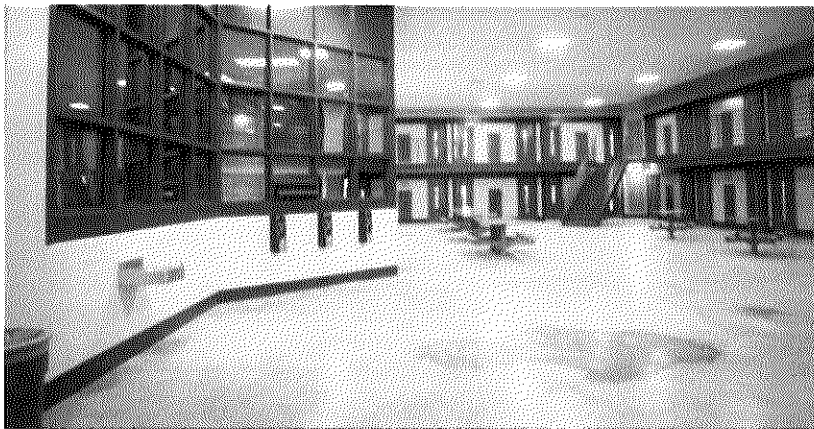
The architects did an in-depth study of the facility and the following is the result of that analysis.

The Jail is equipped with full security services including: CCTV, Touch Screen Computers, Card Key Access, PIN Systems, UPS and Emergency Generators.

It was determined that due to the age of all the components and the addition of 42 new cells it would be necessary to upgrade all the existing electronic security equipment.



Gaston County Jail Two Man Cell



Gaston County Jail Dayroom

The Jail was designed with 200, 2-man cells and 8, 1-man cells for a total of 408 beds that is divided into several "pods" that are designed to support both direct and indirect supervision. The pods are designed so that an inmate can be placed in a pod and never removed from it except for court appearances.

The study provides an insight into how the 4 existing interior first level recreation areas can be utilized to accommodate 42 additional cells. Of the 42, 30 will be 2-man cell and 12 will be 1-man cells in "A" Block. The first floor of the jail is a slab on grade and has the ability to support the cells.

The second level recreation areas cannot be utilized with cells but could provide additional space for dormitory or classrooms due to structural restraints.

The kitchen facility prepares and cooks three meals a day for all inmates at both the Jail and the adjacent jail annex. The jail annex has 8, 20-man dorms for a total of 160 beds and 16, 1-man cells and is currently used to house female detainees. The total number of beds for both facilities is 584 beds. Operational capacity (90%) is 526 beds.

Expansion of the Kitchen, Warehousing, Staff Facilities will need to be included in a future addition. Medical unit and administration would be included in a future expansion as well.



Gaston County Jail Mezzanine View to Dayroom



Gaston County Jail Kitchen

---

**CURRENT SPACE ISSUES**

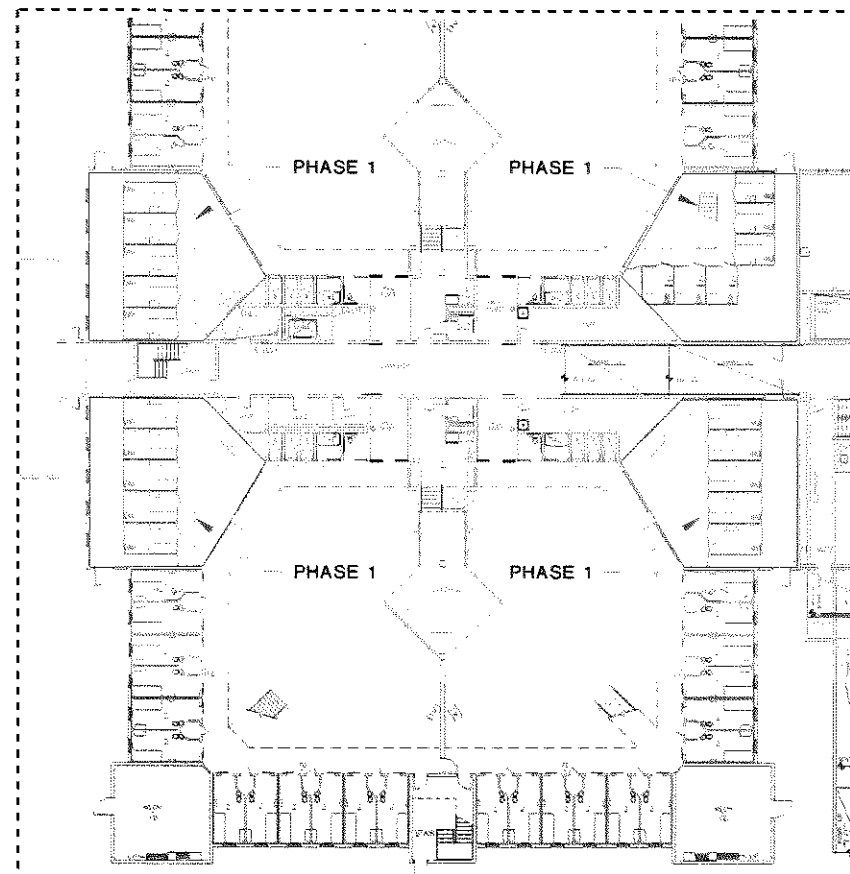
In meetings with the County Staff and Sheriffs Office, the architect identified space requirements, which were based on the present need. The following information was obtained through meetings with the county and detention officials and Stewart – Cooper – Newell Architects. Space requirements were developed for additional cells, medical facilities, kitchen facilities and other relevant spaces. The most immediate needs are:

- Cells – Additional cells are needed. Jail Pod size and configuration was reviewed and produced the following conclusions:
  1. Existing dayrooms and cell size are adequate.
  2. Recreation yards (8 – one per pod) are not used. Consider converting this enclosed outdoor space to interior space with heating/air. Options for use of this space: cells, classrooms, video arraignment if pod is designated for First Appearance, storage, property storage and inmate property storage.
  3. Delete recreation yards from future pods if possible. Review current codes concerning outdoor recreation requirements.
  4. Mirror classification of existing jail. Female inmates to remain in jail annex.
  5. Review design of showers, toilets and doors.
  6. Delete drywall from pod ceilings. Sprinklers ruin drywall; consider exposed concrete or other finishes.
- Classroom Space – classes are currently held in the library.
- Kitchen Space – Currently 1,400 meals are prepared daily. Additional freezer, storage, cart and assembly line space is required. At least twice the storage space required for the kitchen area.
- Medical Ward Space – Isolation cells are currently used for HIV, sick or injured.
- Inmate Property Storage – Property is currently stored in several locations instead of one central location. Change existing weight room to storage. Provide new weight room in administrative addition.
- First Appearance Space – Large detainee area for video arraignment needed.
- Visitation Space – A place for lawyers to meet with detainees with a pass-thru for signing papers is needed.
- Secure Parking - Existing secure parking is where jail administrative expansion will take place. Gate should be changed to a sliding gate due to problems with existing overhead gate. Relocate fence for new, larger secure parking lot.
- Loading Bays – Two existing loading bays are sufficient. Relocate in Phase II.
- Trash Pick-up - Currently pick-up is twice a week. Expansion may require daily pick-up.
- Jail Annex Access - Need better access to the jail annex. Expansion of Administrative space should connect the jail and jail annex.
- Commissary - Provide additional store commissary space. Keep commissary adjacent to loading docks.

### SPACE ISSUES ANALYSIS

The analysis of the existing space and need as well as budget restraints indicated three phase approach for the detention center. Phase I is illustrated.

Phase I provides 42 additional cells (72 beds) by renovating existing recreation yards and auxiliary spaces required by the 42 additional cells including the following:



**SPACE ISSUES ANALYSIS**

The analysis of the existing space produced a three phase approach for the detention center. Phase II and III is described.

Phase II provides additional administration:

- Expanded Medical Unit
- Classrooms
- Additional kitchen area for freezer, storage, cart storage and assembly line space - addition on the north elevation.
- Additional inmate property storage.
- Additional store box/commissary space.
- Additional support staff space. New support staff will require additional office space, parking space, weight room, dining space, and locker room space.

Phase II would expand the 2 floor existing building on the north side with a total of 35,800 SF.



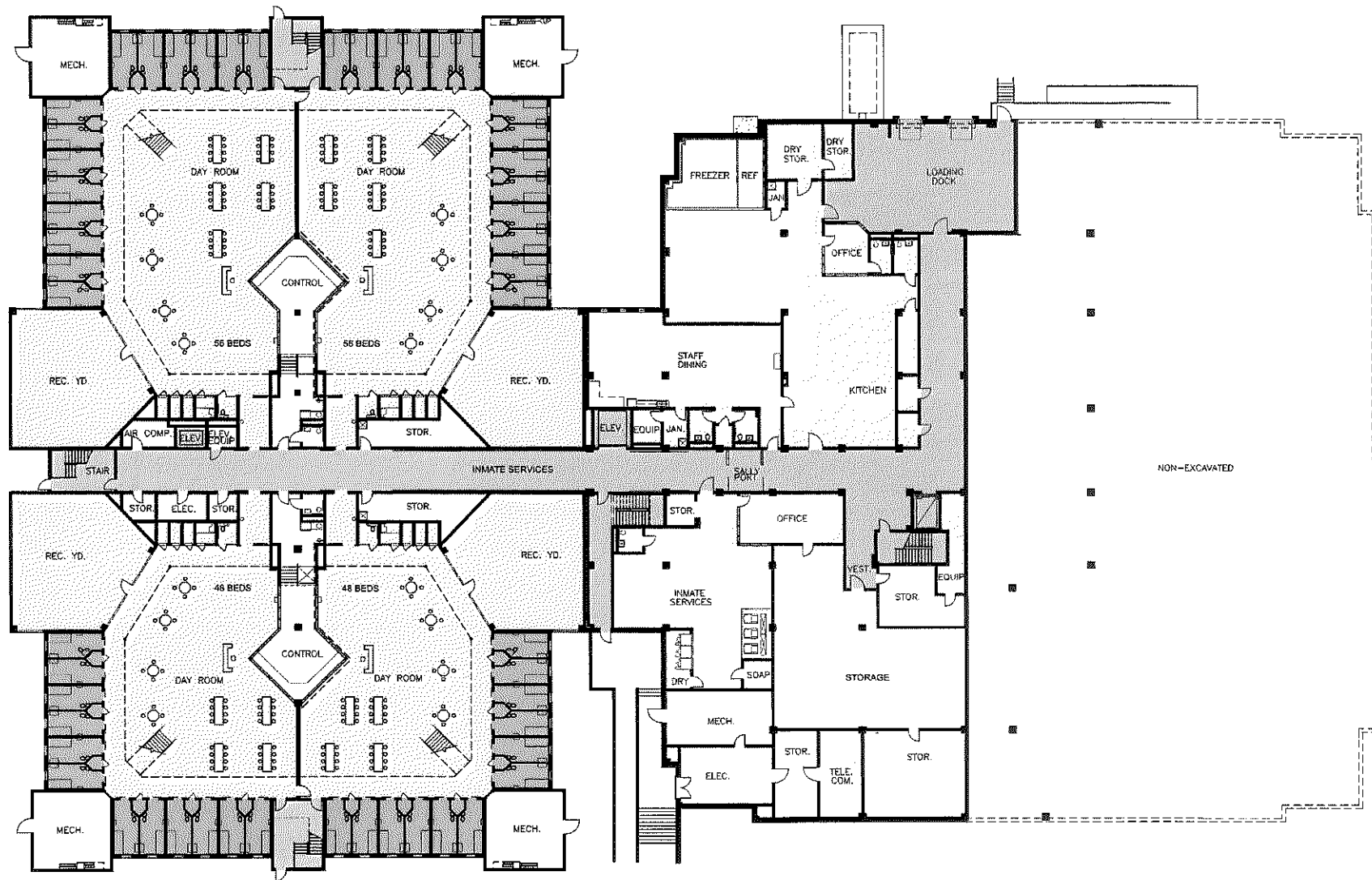
North Elevation

Phase III provides 224 additional cells (440 beds) in approximately 140,000 SF detention housing addition on the west side of the facility and adds auxiliary space for storage, administration, medical and kitchen services, evidence and inmate storage on the north side of the facility. Site renovations will include additional secure parking, fencing and sliding gates.



West Elevation

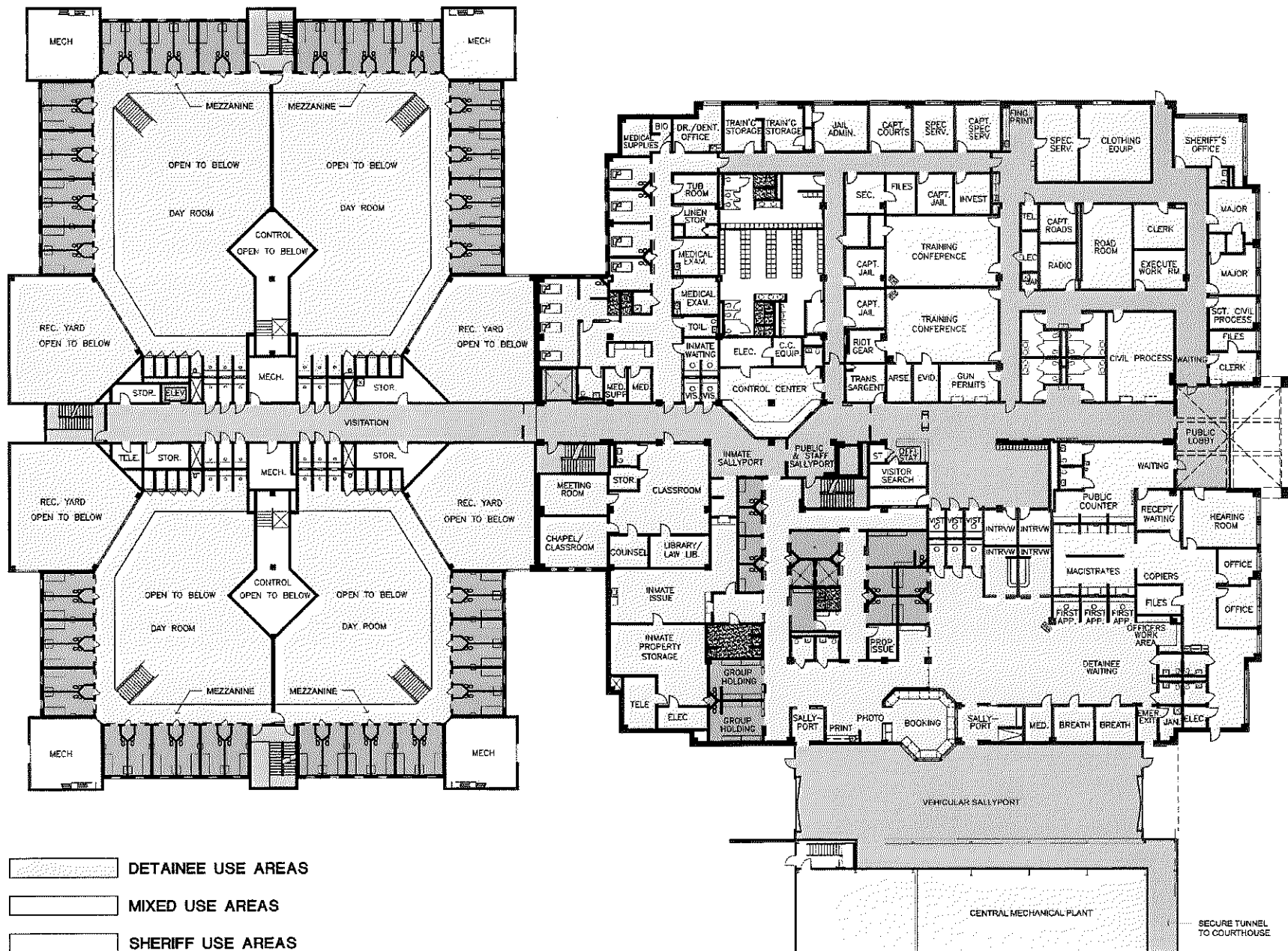




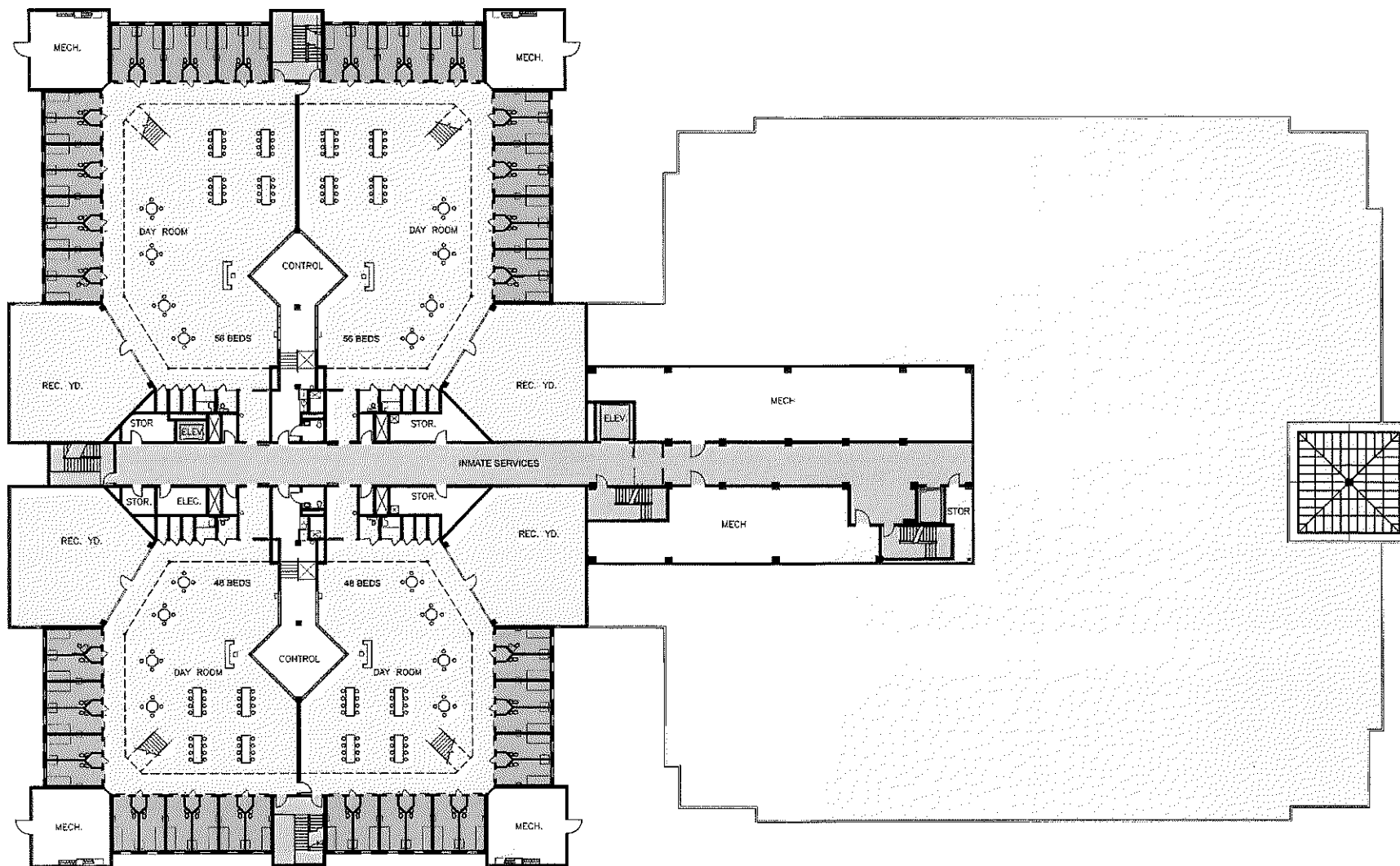
- DETAINEE USE AREAS
- MIXED USE AREAS
- SHERIFF USE AREAS

# EXISTING GASTON COUNTY SHERIFF'S OFFICE & JAIL FIRST FLOOR PLAN



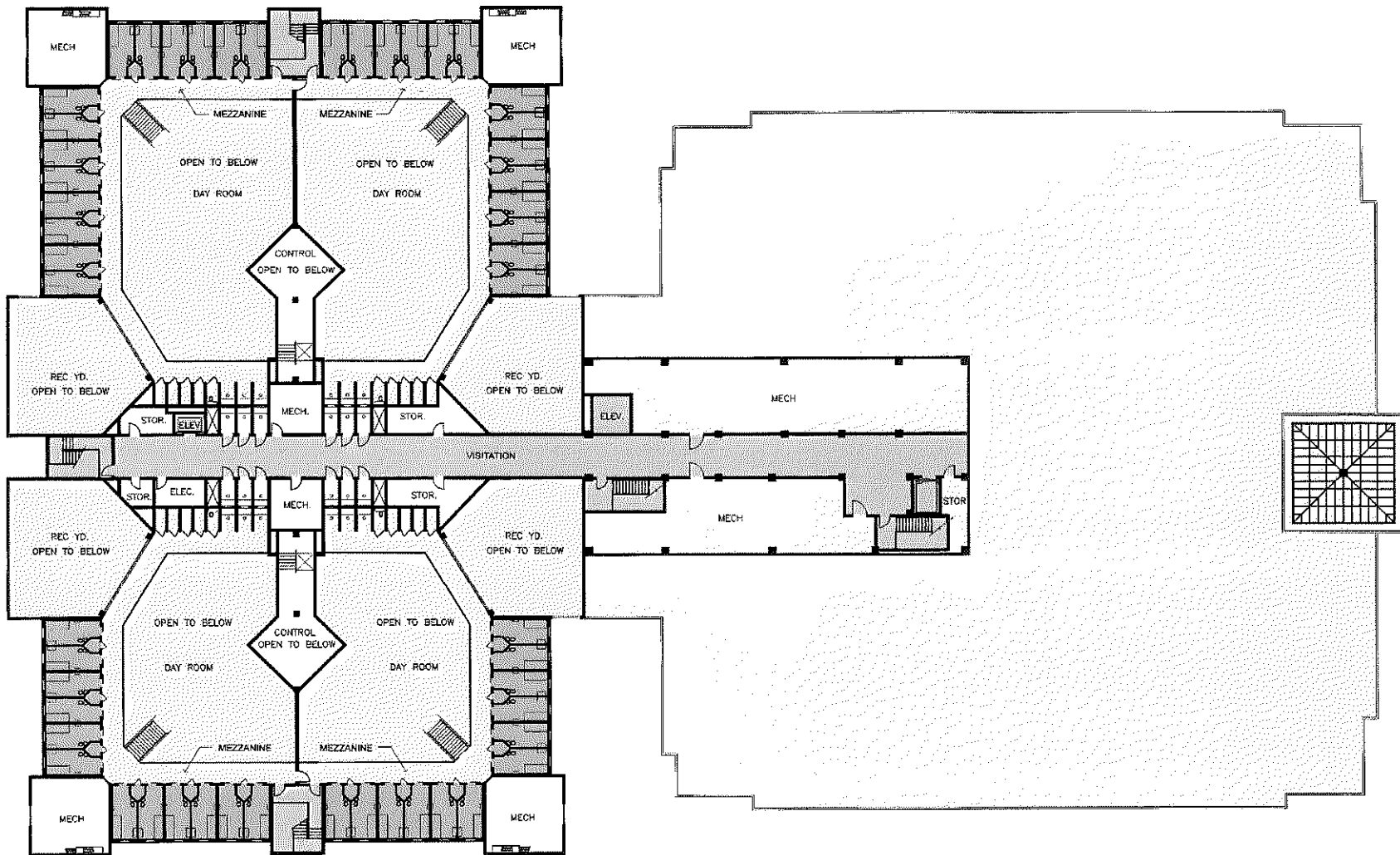


**EXISTING GASTON COUNTY SHERIFF'S OFFICE & JAIL**  
SECOND FLOOR PLAN



- DETAINEE USE AREAS
- MIXED USE AREAS
- SHERIFF USE AREAS

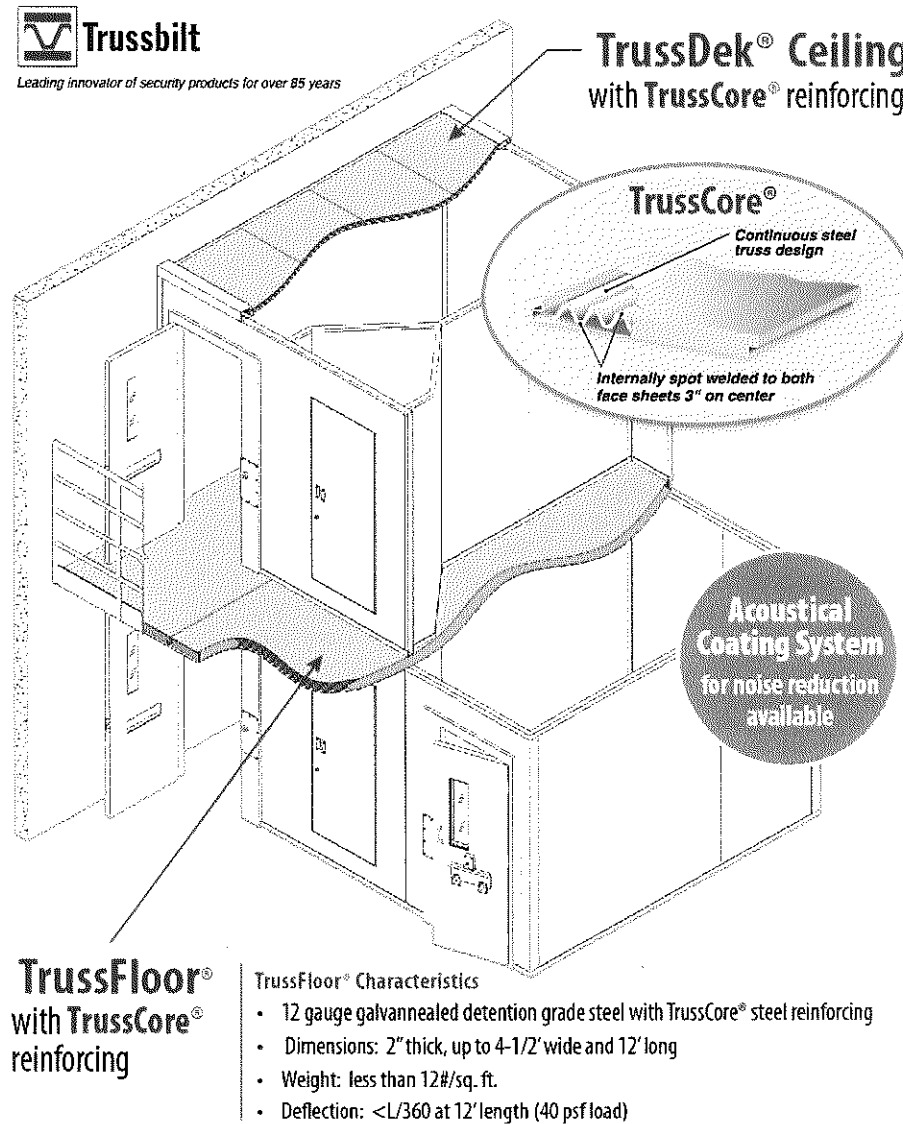
**EXISTING GASTON COUNTY SHERIFF'S OFFICE & JAIL**  
THIRD FLOOR PLAN



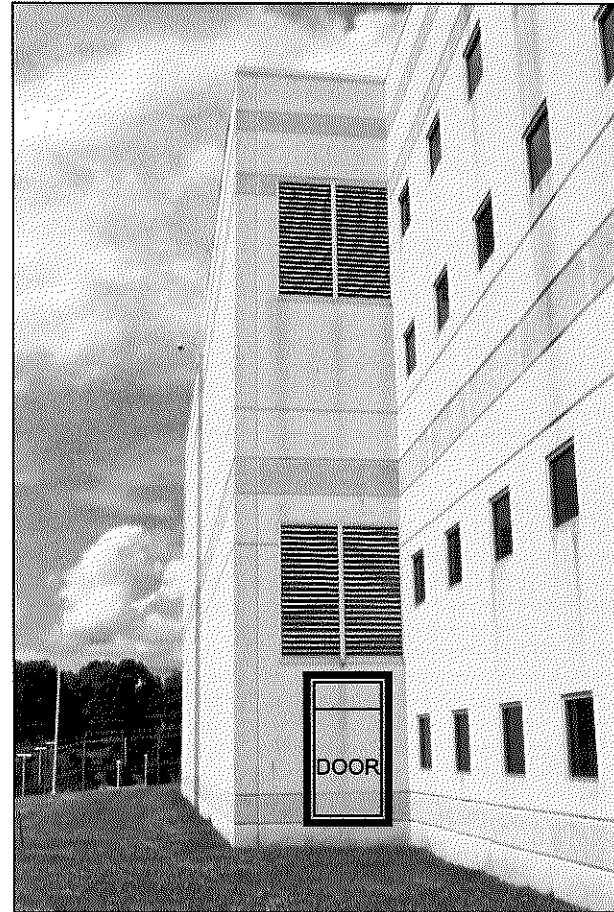
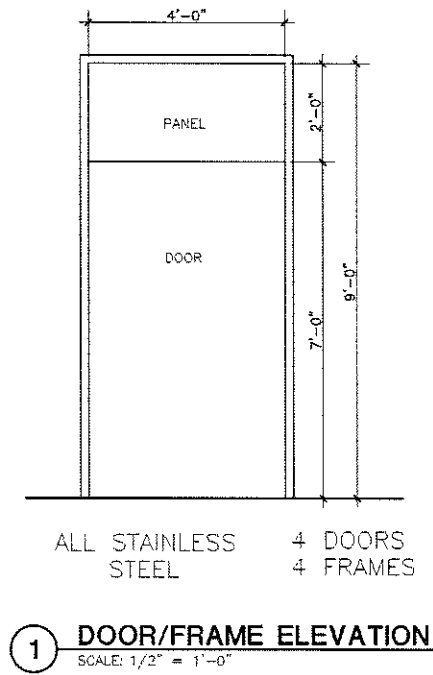
- DETAINEE USE AREAS
- MIXED USE AREAS
- SHERIFF USE AREAS

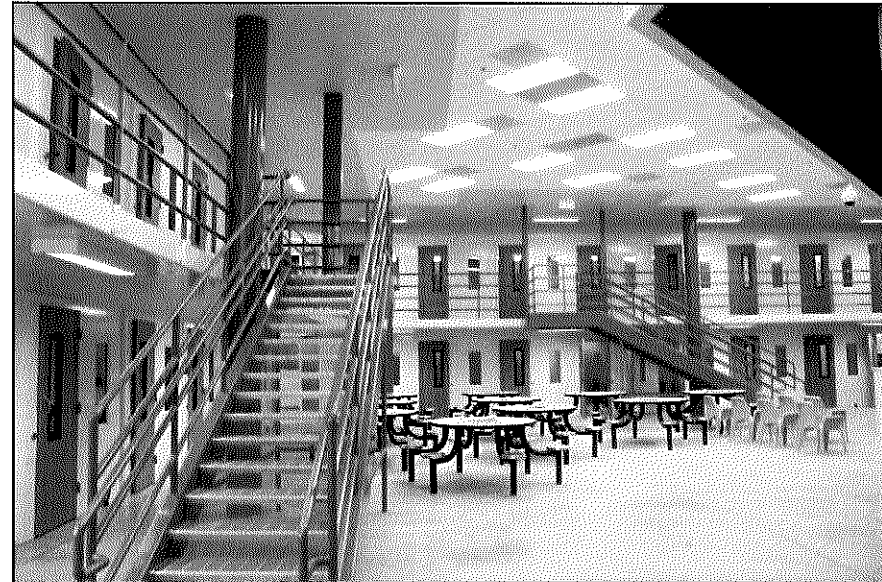
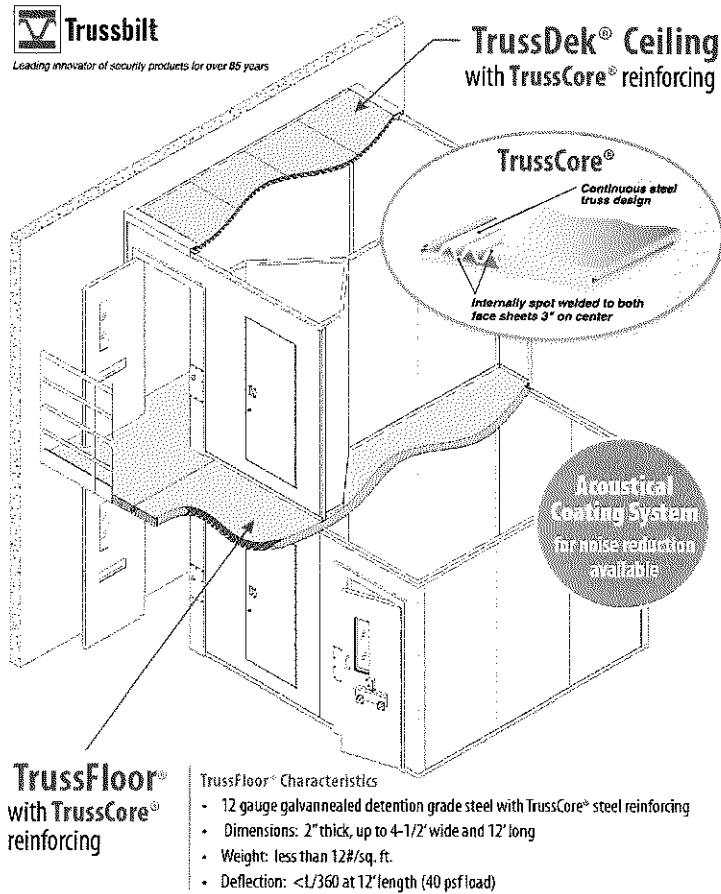
**EXISTING GASTON COUNTY SHERIFF'S OFFICE & JAIL**  
FOURTH FLOOR PLAN

## GASTON COUNTY JAIL EXPANSION STUDY



### 3 –New Cell Installation

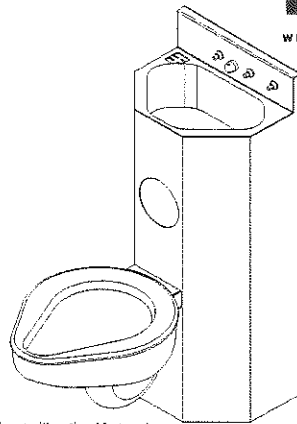






## Willoughby Industries - Security Products

### 1546 Series 15" Wide Combination Units



*(Unit may be shown with optional features)*

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a wall unit 15" combination unit with centered toilet, on floor, standard push filter, bubbler, 1.6 GPF dual temp. pneumatic metering valve, standard push buttons, lav. elbow waste, lav. trap drain, toilet waste extension, 3" PVC waste coupling, hydraulic flush valve, flush valve connection, center recessed tissue holder, and wall brace.

Use the following Willoughby Model Number:  
ECW-1546-COM-FP-1-L-PML2-PPB-EB-TWE-TWC3P-FV-FVT-RTHC-WB

### Recommended Specifications

15" combination lavatory/toilet shall be:  
Willoughby Model No. EC\_\_\_-1546  
(Select from model number and options list on next page)

Fixture shall be fabricated from 14 gauge, type 304 stainless steel. The construction shall be all welded, with exposed stainless surfaces polished to a #4 satin finish.

Standard toilet shall include:

- Elongated toilet bowl with contoured seat
- Integral crevice-free self-draining flushing rim with positive afterfill
- Fully enclosed 2-1/2" O.D. trap which shall maintain a minimum 2" seal and pass a 2-1/8" ball
- Bead blast finish bowl interior
- Toilet shall be blowout type, requiring 35 psi min. flushing pressure.
- Model shall meet the requirements of ASME A112.19.3/CSA B45.4.

Standard lavatory shall include:

- Multi-sided bowl, 12-3/4" x 8-1/4" x 5" deep
- Stainless steel bubbler/filler
- Fast drain with air vent
- Elbow waste (1-1/2" F.I.P.)
- Self-draining soap dish

Fixture shall withstand loadings of 5,000 lbs. without permanent damage.

Cabinet interior shall be sound deadened with fire-resistant material.

Anchoring shall be by standard 4-point system. Ø1/2" threaded rods, nuts and washers shall be furnished for walls up to 8" thick. Unit shall require chase area for installation and maintenance.

**On back to back fixture installations, do not use standard cross type waste fitting: cross flow may result due to blowout jet action. Use sanitary or offset type waste fittings.**

Note: For HET 1.28 GPF, unit will pass a 2" ball.



visit our website at [www.willoughby-ind.com](http://www.willoughby-ind.com)  
5105 West 78th Street • Indianapolis, IN. 46268  
(317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065

MADE IN THE U.S.A.

© Rev. 7/2017

S1-3

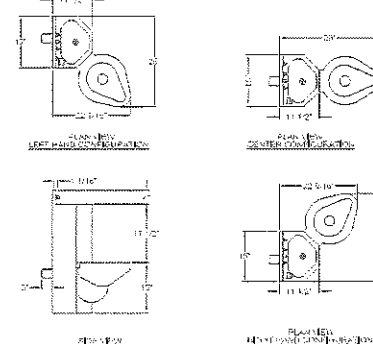
### MODEL NUMBER AND OPTIONS:

- |  |   |
|--|---|
| <p><b>1.) Toilet Waste Location:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ECW Wall Outlet</li> <li><input type="checkbox"/> ECF Floor Outlet</li> </ul> <p><b>2.) Base Model Number:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 1546 15" Lav-toilet Combination</li> </ul> <p><b>3.) Toilet Orientation:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> L Angles Left</li> <li><input type="checkbox"/> R Angles Right</li> <li><input type="checkbox"/> C Centered</li> </ul> <p><b>4.) Fixture Mounting:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> OF On-Floor (ECW Only)</li> <li><input type="checkbox"/> ON On-Floor</li> </ul> <p><b>5.) Bubbler Selection:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> BP Penal Bubbler/Filter (Standard)</li> <li><input type="checkbox"/> BC Code Bubbler/Filter (w/ Mouth Guard)</li> <li><input type="checkbox"/> BPH Ligature-resistant Bubbler/Filter</li> <li><input type="checkbox"/> FL Penal Lav. Filter</li> <li><input type="checkbox"/> FLH Ligature-resistant Lav. Filter</li> </ul> <p><b>6.) Flush Valve GPF (Must Specify):</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 1.28 GPF HET</li> <li><input type="checkbox"/> 1.6 GPF ULF (Standard)</li> <li><input type="checkbox"/> 3.5 GPF (3" waste tube required)</li> </ul> <p><b>7.) Lavatory Valve Selection:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> NV No Valve</li> <li><input type="checkbox"/> PSL1 Single Temp. Pneumatic Non-metering</li> <li><input type="checkbox"/> PSL2 Dual Temp. Pneumatic Non-metering</li> <li><input type="checkbox"/> PML1 Single Temp. Pneumatic Metering</li> <li><input type="checkbox"/> PML2 Dual Temp. Pneumatic Metering</li> <li><input type="checkbox"/> E1L1 Single Temp. Electronic (Pick Control)</li> <li><input type="checkbox"/> E1L2 Dual Temp. Electronic (Pick Control)</li> </ul> <p><b>8.) Lavatory Push Button Selection:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> PPB Pneumatic Push Buttons</li> <li><input type="checkbox"/> PPH Ligature-resistant Push Buttons</li> <li><input type="checkbox"/> EPB Electronic Push Buttons</li> <li><input type="checkbox"/> EPBH Ligature-resistant Electronic Push Buttons</li> <li><input type="checkbox"/> PZPB Plaza Electronic Push Buttons</li> </ul> <p><b>9.) Electronic Controls:</b><br/>(Must Use Electronic Lavatory &amp; Flush Valves)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> WUCC-3010 LPneumatic LPWJSH</li> </ul> <p><b>10.) Lavatory Waste:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> EB Elbow Waste (1-1/2" F.I.P.) (Shroud)</li> <li><input type="checkbox"/> PT Integral P-Trap (1-1/2" F.I.P.)</li> <li><input type="checkbox"/> LWE Lavatory Waste Extension</li> <li><input type="checkbox"/> OV Lavatory Overflow</li> <li><input type="checkbox"/> CW1 Combined Waste w/ Clean-out</li> <li><input type="checkbox"/> CW2 Combined Waste w/ Clean-out</li> <li><input type="checkbox"/> LW1 Thru-Wall Extension, P-Trap</li> <li><input type="checkbox"/> LW2 Thru-Wall Extension &amp; Clean-out</li> <li><input type="checkbox"/> SLOW Slow Drain</li> </ul> <p><b>11.) Toilet Waste:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> GWG Gasketed Waste Connector (Standard on ECF)</li> <li><input type="checkbox"/> TWE Toilet Waste Extension (Standard on ECW)</li> <li><input type="checkbox"/> TW3 3" Clean-out for (TWE)</li> <li><input type="checkbox"/> TW4 Floor Outlet Waste Connection</li> <li><input type="checkbox"/> TW5 4" Clean-out for (TWE)</li> <li><input type="checkbox"/> PC3 Pinned Clean-out Plug PVC-3"</li> <li><input type="checkbox"/> PCB3 Pinned Clean-out Plug Brass-3"</li> <li><input type="checkbox"/> PC4 Pinned Clean-out Plug PVC-4"</li> <li><input type="checkbox"/> PCB4 Pinned Clean-out Plug Brass-4"</li> <li><input type="checkbox"/> WO3 3" Toilet P-Trap (3.5 GPF Only)</li> <li><input type="checkbox"/> COH4 4" Clean-out Hook, 4" PVC Plug</li> </ul> <p><b>12.) Waste Coupling for (TWE) Toilet Waste Extension:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> TWC3P Connecting to 3" PVC</li> <li><input type="checkbox"/> TWC3C Connecting to 3" Cast Iron</li> <li><input type="checkbox"/> TWC4P Connecting to 4" PVC</li> <li><input type="checkbox"/> TWC4C Connecting to 4" Cast Iron</li> </ul> <p><b>13.) Other Options:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> T4 Alarm Reset Toilet Overflow Preventer, Req. (FV)</li> <li><input type="checkbox"/> T4A Auto Reset Toilet Overflow Preventer, Req. (FV)</li> <li><input type="checkbox"/> ET4 Electronic Toilet Overflow Preventer, Req. (EPV)</li> <li><input type="checkbox"/> FV Hydraulic Flush Valve (Includes Push Button)</li> <li><input type="checkbox"/> EPV Electronic Flush Valve (Pick Control)</li> <li><input type="checkbox"/> EPVP Electronic Flush Valve w/ (PZPB) (Pick Control)</li> <li><input type="checkbox"/> TFE Toilet Flush Extension</li> <li><input type="checkbox"/> FVT Flush Valve Connection</li> <li><input type="checkbox"/> HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)</li> <li><input type="checkbox"/> RTH Recessed Tissue Holder</li> <li><input type="checkbox"/> ISH Integral Shelf</li> <li><input type="checkbox"/> TB1 Single Toothbrush Holder</li> <li><input type="checkbox"/> TB2 Dual Toothbrush Holder</li> <li><input type="checkbox"/> TH1 Single Towel Hook</li> <li><input type="checkbox"/> TH2 Dual Towel Hook</li> <li><input type="checkbox"/> DC Decorator Color (Fixture exterior only - White)</li> <li><input type="checkbox"/> TF24H Hard-wired Transformer, 110VAC to 24VAC</li> <li><input type="checkbox"/> TF24P Plug-in Transformer, 110VAC to 24VAC</li> <li><input type="checkbox"/> HPS High Polish Seat</li> <li><input type="checkbox"/> VG Vent Grille 6-1/2" x 8-1/2" (13-3/4" in free area)</li> <li><input type="checkbox"/> WT Wall Template</li> <li><input type="checkbox"/> WS Wall Sleeve (Requires Accessible Chase)</li> <li><input type="checkbox"/> SK Ligature-resistant Toilet Skirt. (ON) On-Floor Only</li> <li><input type="checkbox"/> TG 1/2 Gauge Cabinet</li> <li><input type="checkbox"/> TSC Toilet Shipping Cover</li> <li><input type="checkbox"/> Other _____</li> </ul> | <p><b>14.) Toilet Waste Location:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> ECW Wall Outlet</li> <li><input type="checkbox"/> ECF Floor Outlet</li> </ul> <p><b>15.) Base Model Number:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 1546 15" Lav-toilet Combination</li> </ul> <p><b>16.) Toilet Orientation:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> L Angles Left</li> <li><input type="checkbox"/> R Angles Right</li> <li><input type="checkbox"/> C Centered</li> </ul> <p><b>17.) Fixture Mounting:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> OF On-Floor (ECW Only)</li> <li><input type="checkbox"/> ON On-Floor</li> </ul> <p><b>18.) Bubbler Selection:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> BP Penal Bubbler/Filter (Standard)</li> <li><input type="checkbox"/> BC Code Bubbler/Filter (w/ Mouth Guard)</li> <li><input type="checkbox"/> BPH Ligature-resistant Bubbler/Filter</li> <li><input type="checkbox"/> FL Penal Lav. Filter</li> <li><input type="checkbox"/> FLH Ligature-resistant Lav. Filter</li> </ul> <p><b>19.) Flush Valve GPF (Must Specify):</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 1.28 GPF HET</li> <li><input type="checkbox"/> 1.6 GPF ULF (Standard)</li> <li><input type="checkbox"/> 3.5 GPF (3" waste tube required)</li> </ul> <p><b>20.) Lavatory Valve Selection:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> NV No Valve</li> <li><input type="checkbox"/> PSL1 Single Temp. Pneumatic Non-metering</li> <li><input type="checkbox"/> PSL2 Dual Temp. Pneumatic Non-metering</li> <li><input type="checkbox"/> PML1 Single Temp. Pneumatic Metering</li> <li><input type="checkbox"/> PML2 Dual Temp. Pneumatic Metering</li> <li><input type="checkbox"/> E1L1 Single Temp. Electronic (Pick Control)</li> <li><input type="checkbox"/> E1L2 Dual Temp. Electronic (Pick Control)</li> </ul> <p><b>21.) Lavatory Push Button Selection:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> PPB Pneumatic Push Buttons</li> <li><input type="checkbox"/> PPH Ligature-resistant Push Buttons</li> <li><input type="checkbox"/> EPB Electronic Push Buttons</li> <li><input type="checkbox"/> EPBH Ligature-resistant Electronic Push Buttons</li> <li><input type="checkbox"/> PZPB Plaza Electronic Push Buttons</li> </ul> <p><b>22.) Electronic Controls:</b><br/>(Must Use Electronic Lavatory &amp; Flush Valves)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> WUCC-3010 LPneumatic LPWJSH</li> </ul> <p><b>23.) Lavatory Waste:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> EB Elbow Waste (1-1/2" F.I.P.) (Shroud)</li> <li><input type="checkbox"/> PT Integral P-Trap (1-1/2" F.I.P.)</li> <li><input type="checkbox"/> LWE Lavatory Waste Extension</li> <li><input type="checkbox"/> OV Lavatory Overflow</li> <li><input type="checkbox"/> CW1 Combined Waste w/ Clean-out</li> <li><input type="checkbox"/> CW2 Combined Waste w/ Clean-out</li> <li><input type="checkbox"/> LW1 Thru-Wall Extension, P-Trap</li> <li><input type="checkbox"/> LW2 Thru-Wall Extension &amp; Clean-out</li> <li><input type="checkbox"/> SLOW Slow Drain</li> </ul> <p><b>24.) Toilet Waste:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> GWG Gasketed Waste Connector (Standard on ECF)</li> <li><input type="checkbox"/> TWE Toilet Waste Extension (Standard on ECW)</li> <li><input type="checkbox"/> TW3 3" Clean-out for (TWE)</li> <li><input type="checkbox"/> TW4 Floor Outlet Waste Connection</li> <li><input type="checkbox"/> TW5 4" Clean-out for (TWE)</li> <li><input type="checkbox"/> PC3 Pinned Clean-out Plug PVC-3"</li> <li><input type="checkbox"/> PCB3 Pinned Clean-out Plug Brass-3"</li> <li><input type="checkbox"/> PC4 Pinned Clean-out Plug PVC-4"</li> <li><input type="checkbox"/> PCB4 Pinned Clean-out Plug Brass-4"</li> <li><input type="checkbox"/> WO3 3" Toilet P-Trap (3.5 GPF Only)</li> <li><input type="checkbox"/> COH4 4" Clean-out Hook, 4" PVC Plug</li> </ul> <p><b>25.) Waste Coupling for (TWE) Toilet Waste Extension:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> TWC3P Connecting to 3" PVC</li> <li><input type="checkbox"/> TWC3C Connecting to 3" Cast Iron</li> <li><input type="checkbox"/> TWC4P Connecting to 4" PVC</li> <li><input type="checkbox"/> TWC4C Connecting to 4" Cast Iron</li> </ul> <p><b>26.) Other Options:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> T4 Alarm Reset Toilet Overflow Preventer, Req. (FV)</li> <li><input type="checkbox"/> T4A Auto Reset Toilet Overflow Preventer, Req. (FV)</li> <li><input type="checkbox"/> ET4 Electronic Toilet Overflow Preventer, Req. (EPV)</li> <li><input type="checkbox"/> FV Hydraulic Flush Valve (Includes Push Button)</li> <li><input type="checkbox"/> EPV Electronic Flush Valve (Pick Control)</li> <li><input type="checkbox"/> EPVP Electronic Flush Valve w/ (PZPB) (Pick Control)</li> <li><input type="checkbox"/> TFE Toilet Flush Extension</li> <li><input type="checkbox"/> FVT Flush Valve Connection</li> <li><input type="checkbox"/> HS Hinged White Plastic Seat (Not recommended for Max. Security/Ligature-resistant use; No Cover)</li> <li><input type="checkbox"/> RTH Recessed Tissue Holder</li> <li><input type="checkbox"/> ISH Integral Shelf</li> <li><input type="checkbox"/> TB1 Single Toothbrush Holder</li> <li><input type="checkbox"/> TB2 Dual Toothbrush Holder</li> <li><input type="checkbox"/> TH1 Single Towel Hook</li> <li><input type="checkbox"/> TH2 Dual Towel Hook</li> <li><input type="checkbox"/> DC Decorator Color (Fixture exterior only - White)</li> <li><input type="checkbox"/> TF24H Hard-wired Transformer, 110VAC to 24VAC</li> <li><input type="checkbox"/> TF24P Plug-in Transformer, 110VAC to 24VAC</li> <li><input type="checkbox"/> HPS High Polish Seat</li> <li><input type="checkbox"/> VG Vent Grille 6-1/2" x 8-1/2" (13-3/4" in free area)</li> <li><input type="checkbox"/> WT Wall Template</li> <li><input type="checkbox"/> WS Wall Sleeve (Requires Accessible Chase)</li> <li><input type="checkbox"/> SK Ligature-resistant Toilet Skirt. (ON) On-Floor Only</li> <li><input type="checkbox"/> TG 1/2 Gauge Cabinet</li> <li><input type="checkbox"/> TSC Toilet Shipping Cover</li> <li><input type="checkbox"/> Other _____</li> </ul> |
|--|---|

(Req. 110V power through ground fault interrupter (GFI) receptacle)

Approved For Manufacturing By: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_  
Wall Thickness: \_\_\_\_\_ Wall Type: \_\_\_\_\_

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN  
WILL LOUGHBY INDUSTRIES RESERVES THE RIGHT TO MAKE CHANGES IN DESIGN AND DIMENSIONS WITHOUT NOTICE AND WITHOUT INCURRING LIABILITY



visit our website at [www.willoughby-ind.com](http://www.willoughby-ind.com)  
5105 West 78th Street • Indianapolis, IN. 46268  
(317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065



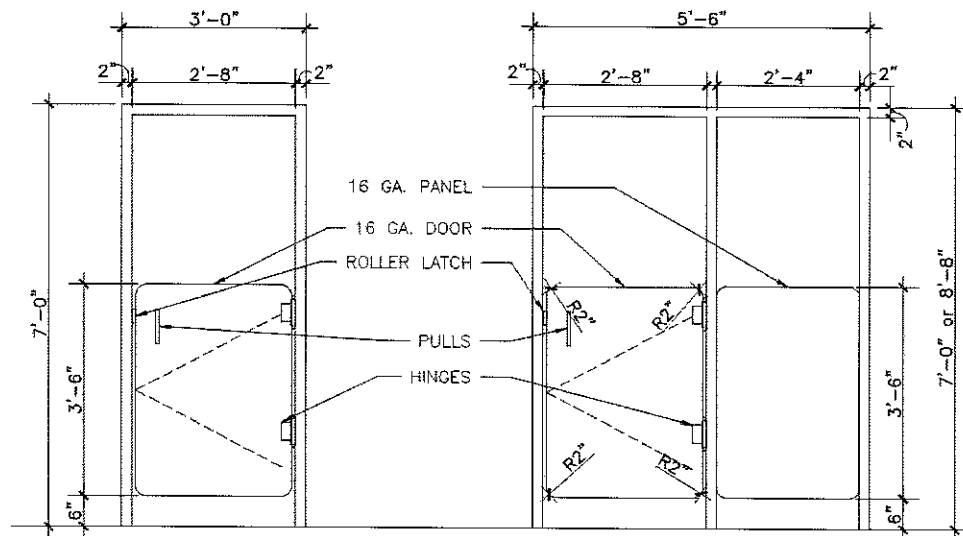
MADE IN THE U.S.A.

© Rev. 7/2017

S1-4



NEW TOILET DOORS



SHOWER DOOR  
H.M. FRAME/DOOR EDGES  
WELD-GRIND SMOOTH  
ALL STAINLESS STEEL

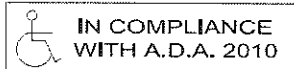
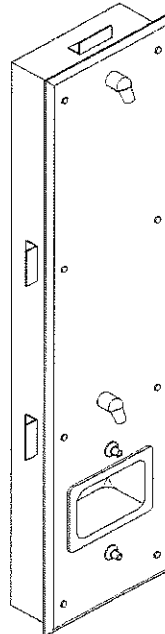




## 5 – Possible Shower Changes

## Willoughby Industries - Security Products

### WRS-BF-FA-2HD Series Front Mounted Recessed Handicap Shower Panel w/(2) Fixed Shower Heads



#### Recommended Specifications

Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads shall be:  
Willoughby Model No. **WRS-BF-FA-2HD**  
(Select from model number and options list on next page)

Shower panel shall be fabricated from 14 gauge, Type 304 stainless steel with exposed stainless surfaces polished to a #4 satin finish. Mounting frame shall be fabricated from 18 gauge galvanized steel.

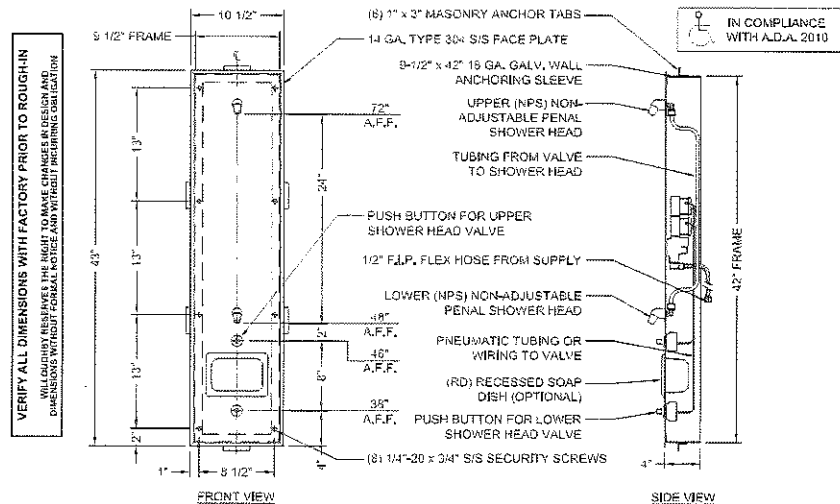
Standard equipment shall include:  
- Shower valve (Select from Valve Selection options list)  
- (2) (NPS) non-adjustable penel shower heads

Shower panel shall attach to mounting frame with security screws. Unit requires no chase area for installation and maintenance.

To specify fixture and accessories, use the Model Number and Options page.  
Example: To specify a Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads, a single temp. pneumatic mixing valve (not included), ganging pneumatic push buttons, standard 2.5 GPM (not included) shower heads, in-line thermostatic mixing valve, and recessed mounted soap dish:  
Use the following Willoughby Model Number:  
**WRS-BF-FA-2HD-PUL1-MA2-PPB-2.5GPM-NPS-TMV-RD**

| MODEL NUMBER AND OPTIONS:   |  |
|---|--|
| 1.) Base Model Number:<br><input type="checkbox"/> WRS-BF-FA-2HD  | Front Mounted, Recessed Handicap Shower Panel w/(2) Fixed Shower Heads   |
| 2.) Valve Selection:<br><input type="checkbox"/> NV No Valve<br><input type="checkbox"/> PML1 Single Temp. Pneumatic Mixing<br><input type="checkbox"/> PML2 Dual Temp. Pneumatic Mixing<br><input type="checkbox"/> ETL1 Single Temp. Electronic (Pick Control)<br><input type="checkbox"/> ETL2 Dual Temp. Electronic (Pick Control)<br>Valve Manifold Option:<br>Pneumatic or Electronic Valves Only:<br>(See the Manifold Option Page at the end of Catalog Section 55 for further information)<br><input type="checkbox"/> MA2 | 5.) Electronic Controls* (Must Use Electronic Push Button):<br><input type="checkbox"/> WUSC-2200<br><input type="checkbox"/> WUSC-2400<br><input type="checkbox"/> Pneumatic<br><input type="checkbox"/> WMS #  |
| 3.) Push Button Selection:<br>Pneumatic or Electronic Valves Only:<br><input type="checkbox"/> PPB Pneumatic Push Buttons<br><input type="checkbox"/> EPB Electronic Push Buttons<br><input type="checkbox"/> PZPB Piezo Push Buttons   | 6.) Shower Head Selection:<br><input type="checkbox"/> NPS Non-adjustable Penel Shower Heads (Standard)<br><input type="checkbox"/> APS Adjustable Penel Shower Heads  |
| 4.) Flow Rates:<br><input type="checkbox"/> 2.5 GPM (Standard)<br><input type="checkbox"/> 2.0 GPM<br><input type="checkbox"/> 1.5 GPM  | 7.) Options:<br><input type="checkbox"/> TMV In-line Thermostatic Mixing Valve<br><input type="checkbox"/> TF24H Heavy-Duty Transformer, 110VAC to 24VAC*<br><input type="checkbox"/> TF24P Plug-in Transformer, 110VAC to 24VAC*<br><input type="checkbox"/> RD Recessed Mounted Soap Dish<br><input type="checkbox"/> SD Surface Mounted Soap Dish<br><input type="checkbox"/> Other _____<br><input type="checkbox"/> Other _____<br>*100V, 110V power through ground fault interrupter (GFCI) receptacle |

Approved For Manufacturing By: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_  
Wall Thickness: \_\_\_\_\_ Wall Type: \_\_\_\_\_



visit our website at [www.willoughby-ind.com](http://www.willoughby-ind.com)  
5105 West 78th Street • Indianapolis, IN. 46268  
(317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065



S5-19

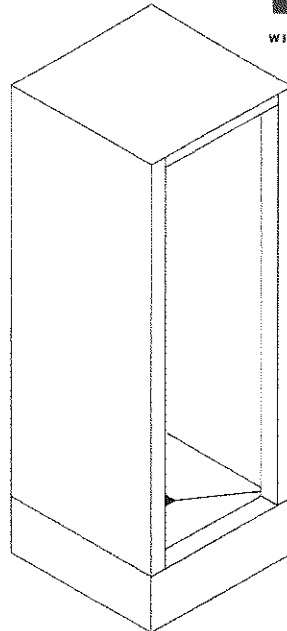
visit our website at [www.willoughby-ind.com](http://www.willoughby-ind.com)  
5105 West 78th Street • Indianapolis, IN. 46268  
(317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065



S5-20

## Willoughby Industries - Security Products

### Cabinet Shower



### Recommended Specifications

Cabinet Shower shall be:  
Willoughby Model No. \_\_\_\_S\_\_\_\_  
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be **all welded** (united models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:

- (NPS) non-adjustable penal shower head, mounted in front corner panel (plumbed through the side mullion, under shower floor, and to chase wall)
- (EBD) integral strainer drain with elbow waste (2" F.I.P.) extending to chase wall

Unit requires chase area for installation and maintenance.

Underside of shower floor shall be sound deadened with fire resistant material.

Please provide shower finish schedule upon ordering.

(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.

Example: To specify a unitized 36" x 30" Cabinet Shower with left hand shower head, back chase/venting, polished front, single temp. pneumatic mixing valve, standard pneumatic push button, 2.5 GPM low rate, standard non-adjustable penal shower head, standard elbow waste drain and recessed mounted soap dish.

Use the following Willoughby Model Number:  
US-3630-L-BCS-A4-PML1-PFB-2.5GPM-NPS-EBD-RD

To specify Knockdown Cabinet Shower: Select the "KS" model number from the list on the Model Number and Options page.



MADE IN THE U.S.A.

© Rev. 7/2017

S5-25

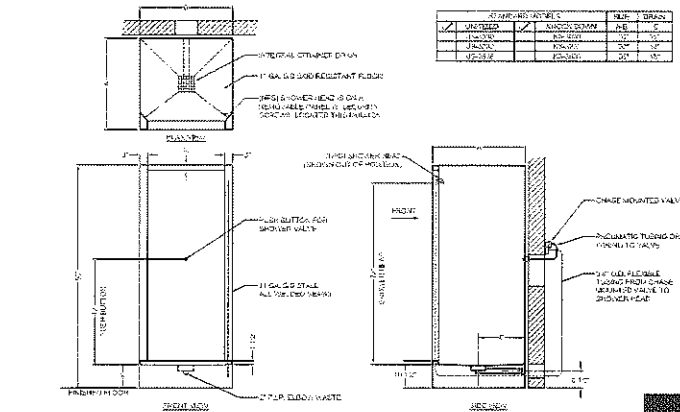
### MODEL NUMBER AND OPTIONS:

- Base Model Number:**
  - Unitized Cabinet Showers:**
    - US-3030 30" L x 30" W Cabinet Shower
    - US-3232 32" L x 32" W Cabinet Shower
    - US-3636 36" L x 36" W Cabinet Shower
    - Knockdown Cabinet Showers:**
      - KS-3030 30" L x 30" W Cabinet Shower
      - KS-3232 32" L x 32" W Cabinet Shower
      - KS-3636 36" L x 36" W Cabinet Shower
- Shower Head Orientation:**
  - L Left Hand
  - R Right Hand
- Chase Wall/Valve Orientation:**
  - BGS Back Chase
  - LCS Left Chase
  - RCS Right Chase
- Cabinet Side Exterior Finish Schedule:**  
(Based on Chase Wall Orientation; see the Options Pages at the end of Catalog Section for diagram)
  - For (BGS) Back Chase:**
    - A1 Polished Front, Left Side, & Right Side
    - A2 Polished Front & Right Side
    - A3 Polished Front & Left Side
    - A4 Polished Front only
  - For (LCS) Left Chase:**
    - B1 Polished Front, Back Side, & Right Side
    - B2 Polished Front & Right Side
    - B3 Polished Front only
  - For (RCS) Right Chase:**
    - C1 Polished Front, Back Side, & Left Side
    - C2 Polished Front & Left Side
    - C3 Polished Front only
- Valve Selection:**
  - NV No Valve
  - PML1 Single Temp. Pneumatic Mixing Valve
  - PML2 Dual Temp. Pneumatic Mixing Valve
  - E1L1 Single Temp. Electronic (Pick Control)\*
  - E1L2 Dual Temp. Electronic (Pick Control)\*
  - PBV Pressure-Balancing Mixing Valve
  - TPV Temp/Pressure-Balancing Mixing Valve
  - TPLR Ligature-resistant Temp/Pressure-Balancing Mixing Valve
- Valve Manifold Option:**  
(See the Manifold Option Page at the end of Catalog Section for further information)
  - MAZ
- Push Button Selection:**  
(Pneumatic or Electronic Valves Only)
  - PPB Pneumatic Push Buttons
  - PBH Ligature-resistant Push Buttons
  - EPB Electronic Push Buttons\*
  - EPBH Ligature-resistant Electronic Push Buttons\*
  - PZPB Piezo Push Buttons\*
- Flow Rates:**
  - 2.5 GPM (Standard)
  - 2.0 GPM
  - 1.5 GPM
- Electronic Controls\***  
(Must Use Electronic Push Button):
  - WUSC-2200 Pneumatic
  - WUSC-2400 Electronic
  - WUS-2400 Electronic
- Shower Head Selection:**
  - NPS Non-adjustable Penal Shower Head (Standard)
  - APS Adjustable Penal Shower Head
  - CSP Ligature-resistant Shower Head
- Drain Selection:**
  - EBD Elbow Waste for Cabinet Shower (2" FIP) (Standard)
  - PTD Integral "P"-Tap Cabinet Shower Drain (2" FIP)
  - NHD No-hub Cabinet Shower Drain (2")
  - ICD Inside Caulk Cabinet Shower Drain (2")
- Options:**
  - VG Ventilation Grille (Specify Free Area and Location; Standard Grille Dimensions: 8-3/4" x 8-3/4" with 15-3/4" open area)
  - CP Closure Panels (Specify Dimensions and Locations)
  - STC Stepping Top Closure
  - MD Madasty Door (Not ADA-Compliant)
    - L Hinged Left
    - R Hinged Right
  - CR Curtain Rod
  - DR Drying Receptacle
  - TH1 Release Towel Hook
  - RD Recessed Mounted Soap Dish
  - SD Surface Mounted Soap Dish
  - ZC 2" Cap Floor Mounting
  - TMV In-line Thermostatic Mixing Valve
  - TF24H Hard-wired Transformer, 110VAC to 24VAC\*
  - TF24P Plug-in Transformer, 110VAC to 24VAC\*
  - Other

\*Req 110V power through ground fault interrupter (GFI) receptacle

Approved For Manufacturing By: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_  
Wall Thickness: \_\_\_\_\_ Wall Type: \_\_\_\_\_

VERIFY ALL DIMENSIONS WITH FACTORY PRIOR TO ROUGH-IN  
DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES AND MATERIALS



visit our website at [www.willoughby-ind.com](http://www.willoughby-ind.com)  
5105 West 78th Street • Indianapolis, IN. 46268  
(317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065



MADE IN THE U.S.A.

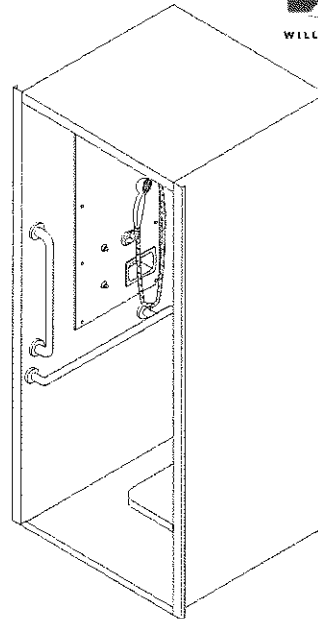
© Rev. 7/2017

S5-26

## Willoughby Industries - Security Products



### Front Access Handicap Cabinet Shower



### Recommended Specifications

Front Access Handicap Cabinet Shower shall be:  
Willoughby Model No. **S-3636-HC-FA**  
(Select from model number and options list on next page)

Shower cabinet shall be fabricated from 14 gauge, Type 304 stainless steel. Shower floor shall be fabricated from 11 gauge, Type 304 stainless steel. The construction shall be **all-welded** (unitized models only, not applicable to knockdown models), exposed stainless surfaces polished to a #4 satin finish, except shower floor which shall have a non-slip glass blast finish.

Standard equipment shall include:

- (ICD) Inside caulk drain (2") with removable strainer
- (GB3318) 18" x 33" horizontally-mounted L-shaped grab bar
- (GB24V) 24" vertically-mounted grab bar
- (FSS) Fold-up stainless steel shower seat

Unit requires no chase area for installation and maintenance. Shower valve and shower head shall be mounted on removable access panel secured with security screws.

Underside of shower floor shall be sound deadened with fire resistant material.

Please provide shower finish schedule upon ordering.  
(Unit may be shown with optional features)

To specify fixture and accessories, use the Model Number and Options page.  
Example: To specify a unitized 24" x 36" Front Access Handicap Cabinet Shower with left hand shower head push button/valve, polished front, single temp. pneumatic metering valves, standard pneumatic push button, 2.5 GPM flow rate, non-adjustable push shower head and hand held shower, standard inside caulk drain, and recessed mounted soap dish  
Use the following Willoughby Model Number:  
**US-3636-HC-FA-L-B3-PML1-MA2-PPB-2.5GPM-NPS-FX-ICD-RD**

Unit requires 2" recess in floor.

Fixture shall be free-standing, no anchoring required.

To specify **Knockdown Cabinet Shower**: Select the "KS" model number from the list on the Model Number and Options page.



MADE IN THE U.S.A.

visit our website at [www.willoughby-ind.com](http://www.willoughby-ind.com)  
5105 West 78th Street • Indianapolis, IN. 46268  
(317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065

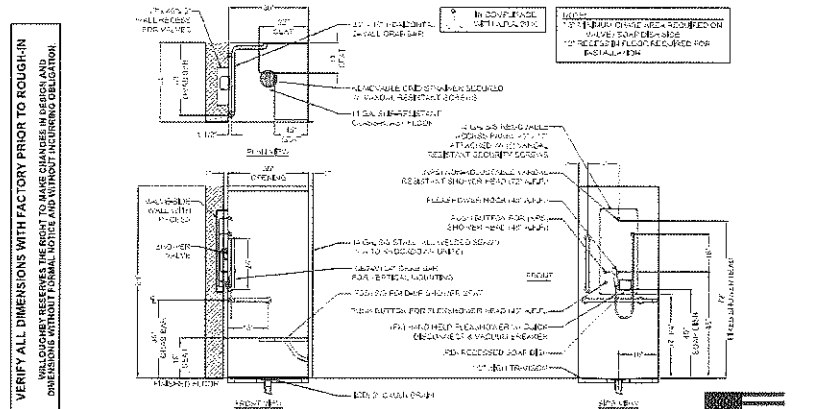
© Rev. 8/2017

S5-31

### MODEL NUMBER AND OPTIONS:

- |  |  |   |
|--|--|---|
| <p>1.) Base Model Number:<br/><b>Unitized Handicap Front Access Cabinet Shower:</b><br/><input type="checkbox"/> US-3636-HC-FA 36" x 56"V Cabinet Shower<br/><b>Knockdown Handicap Front Access Cabinet Shower:</b><br/><input type="checkbox"/> KS-3636-HC-FA 36" x 56"V Cabinet Shower</p> <p>2.) Shower Head/Push Button/Valve Orientation:<br/><input type="checkbox"/> L Left Hand<br/><input type="checkbox"/> R Right Hand</p> <p>3.) Cabinet Side Exterior Finish Schedule:<br/>(Based on Chase Wall Orientation; see the Options Pages at the end of Catalog Section for diagram)<br/><b>For (L-CS) Left Wall:</b><br/><input type="checkbox"/> B2 Polished Front &amp; Right Side<br/><input type="checkbox"/> B3 Polished Front only<br/><b>For (R-CS) Right Wall:</b><br/><input type="checkbox"/> C2 Polished Front &amp; Left Side<br/><input type="checkbox"/> C3 Polished Front only</p> <p>4.) Valve Selection:<br/><input type="checkbox"/> NV No Valve<br/><input type="checkbox"/> PML1 Single Temp. Pneumatic Metering<br/><input type="checkbox"/> PML2 Dual Temp. Pneumatic Metering<br/><input type="checkbox"/> ETL1 Single Temp. Electronic (Pick Control)<br/><input type="checkbox"/> ETL2 Dual Temp. Electronic (Pick Control)<br/><input type="checkbox"/> PBV Pressure-Balancing Mixing Valve<br/><input type="checkbox"/> TPV Temp/Pressure-Balancing Mixing Valve<br/><input type="checkbox"/> TPLR Ligature-resistant Temp/Pressure-Balancing Mixing Valve</p> | <p>5.) Diverter Valve:<br/><input type="checkbox"/> DV Diverter Valve<br/><input type="checkbox"/> DVLR Ligature-resistant Diverter Valve<br/><input type="checkbox"/> PML14A2 Two Single Temp. Pneumatic Metering Valves in Lieu of Diverter Valve</p> <p>6.) Push Button Selection:<br/>(Pneumatic or Electronic Valves Only; See the Manifold Option Page at the end of Catalog Section for further information)<br/><input type="checkbox"/> PPS Pneumatic Push Buttons<br/><input type="checkbox"/> PBH Ligature-resistant Push Buttons<br/><input type="checkbox"/> EPB Electronic Push Buttons<br/><input type="checkbox"/> EPBH Ligature-resistant Electronic Push Buttons<br/><input type="checkbox"/> PZPB Piece Push Buttons</p> <p>7.) Flow Rates:<br/><input type="checkbox"/> 2.5 GPM (Standard)<br/><input type="checkbox"/> 2.0 GPM<br/><input type="checkbox"/> 1.5 GPM</p> <p>8.) Electronic Controls*<br/>(Must Use Electronic Push Button):<br/><input type="checkbox"/> WUSC-2200 <input type="checkbox"/> WUSC-2400<br/><input type="checkbox"/> Pneumatic <input type="checkbox"/> WUIS II</p> <p>9.) Shower Head Selection:<br/><input type="checkbox"/> NPS Non-adjustable Pencil Shower Head<br/><input type="checkbox"/> FX Hand Held Flexshower w/ Quick Disconnect and Vacuum Breaker<br/><input type="checkbox"/> APS Adjustable Pencil Shower Head<br/><input type="checkbox"/> CSH Ligature-resistant Shower Head<br/><input type="checkbox"/> 2HD (2) Fixed Shower Heads, Replaces (FX)</p> | <p>10.) Drain Selection:<br/><input type="checkbox"/> ICD Inside Caulk Cabinet Shower Drain (2") (Standard)<br/><input type="checkbox"/> VS Ventilation Gille (Specify Free Area and Location; Standard Gille Dimensions: 6-3/4" x 6-3/4" with 15-3/4" open area)<br/><input type="checkbox"/> CP Closure Panels (Specify Dimensions and Locations)<br/><input type="checkbox"/> STC Sloping Top Closure<br/><input type="checkbox"/> MD Moisture Door (Not ADA-Compliant)<br/><input type="checkbox"/> L Hinges Left<br/><input type="checkbox"/> R Hinges Right<br/><input type="checkbox"/> CR Curtain Rod<br/><input type="checkbox"/> TH1 Release Towel Hook<br/><input type="checkbox"/> GBC Grab Bar Closure Plate<br/><input type="checkbox"/> RD Recessed Mounted Soap Dish (Standard)<br/><input type="checkbox"/> SD Surface Mounted Soap Dish<br/><input type="checkbox"/> TA Threshold Anchors<br/><input type="checkbox"/> TBY In-line Thermostatic Mixing Valve<br/><input type="checkbox"/> TF24H Hard-wired Transformer, 110VAC to 24VAC<br/><input type="checkbox"/> TF24P Plug-In Transformer, 110VAC to 24VAC<br/><input type="checkbox"/> LFSS Less Fold-up Stainless Steel Shower Seat<br/><input type="checkbox"/> LGB3318 Less 18" x 33" Horizontally-mounted L-Shaped Grab Bar<br/><input type="checkbox"/> LGB24V Less 24" Vertically-mounted Grab Bar<br/><input type="checkbox"/> Other _____<br/><input type="checkbox"/> Other _____</p> <p>*Reg. 100 power through ground fault interrupter (GFI) receptacle</p> |
|--|--|---|

Approved For Manufacturing By: \_\_\_\_\_ Date: \_\_\_\_\_ Company: \_\_\_\_\_  
Wall Thickness: \_\_\_\_\_ Wall Type: \_\_\_\_\_



visit our website at [www.willoughby-ind.com](http://www.willoughby-ind.com)  
5105 West 78th Street • Indianapolis, IN. 46268  
(317) 875-0830 • Fax: (317) 875-0837 • (800) 428-4065

© Rev. 8/2017

S5-32

## GASTON COUNTY JAIL EXPANSION STUDY

---



### 6 – Jail Floor Plans Phase I, II & III