

ADDENDUM NUMBER 5

August 3, 2023

**PROJECT: SHELBY COUNTY JAIL EXPANSION
FOR THE SHELBY COUNTY COMMISSION
COLUMBIANA, ALABAMA
GMC PROJECT NO. AMGM220005
Local Funds**

AD5-1 GENERAL:

- A. The following revisions and/or additions to the Drawings and Project Manual are hereby made a part of same, and shall be incorporated in the Work of the Contract the same as if originally included in the Bid and Construction Documents.
- B. Bidders shall acknowledge receipt of this Addendum in writing, as provided on the Proposal Form.
- C. When a revision and/or addition is called for to the Drawings or Project Manual, they shall be fully coordinated with and carried through all applicable Drawings and portions of the Project Manual, including in part, all related Civil, Landscaping, Architectural, Structural, Plumbing, Mechanical, Electrical, and other Documents.

AD5-2 PROJECT MANUAL AND SPECIFICATIONS:

- A. SECTION 017419 – CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
 - a. Replace section in its entirety
 - b. Recycling requirements have been removed
- B. SECTION 090000 – MATERIAL AND FINISH CODES
 - a. Replace this section in its entirety
 - i. Revised the following room ceiling types to SC-03 with HPC-01:
 - 1. M-148, H-1312, H-1404 thru H-1415, H-1419 thru H-1431, H-1441, H-1443, H-1437, & H-1439
 - ii. Revised the following room ceiling types to SC-03:
 - 1. H-1326, H-1435, H-1436, & H-1575
 - iii. Revised the following room ceiling types to AC-01:
 - 1. M-149, H-1311, H-1313, & H-1317
 - iv. Revised the following room ceiling types to Open to Struct:
 - 1. H-1440, H-1572, H-1573, H-1576, S-133, S-134, S-137, & S-140
- C. SECTION 111963 – DETENTION EQUIPMENT AND FURNISHINGS
 - a. Revise section 2.2.T.2 to read “Size: 15” long X 6” deep”
 - b. Revise section 2.2.R to read as follows:
 - R. (DE17) Wall Mounted Bunk
 - 1. 10 ga., single piece steel construction w/ 1” double hemmed front edge.
 - 2. Finish painted w/ epoxy paint, as specified in herein.
 - 3. Inside pan: 2’-2-1/2” wide x 6’-7-3/8” long.
 - 4. 10 GA pan with 7ga end gusset construction
 - 5. **To meet ASTM F3277-19 - Standard Specification for Cantilevered Steel Bunks Used in Detention and Correctional Facilities.**
 - 6. Acceptable Manufacturers:
 - a. Norix
 - b. Viking
 - c. Or Approved Equal

- D. SECTION 280526 - GROUNDING AND BONDING FOR ELECTRONIC SAFETY AND SECURITY SYSTEMS
 - a. Add this specification section in its entirety
- E. SECTION 282300 – VIDEO SURVEILLANCE SYSTEM (VSS)
 - a. Revise the following sections to include Bosch as an approved manufacturer
 - i. 2.12.A, 2.17.B.1.c, 2.17.C.1.c, 2.17.D.1.c, 2.17.E.1.c, 2.17.F.1.c, & 2.17.G.1.c,
- F. SECTION 033543 – POLISHED CONCRETE FINISHING
 - a. Remove paragraph 3.A.1 in its entirety. There is no alternate for this scope. If shot blasting is required it would be based on a product requirement and coordinated with the specified manufacturer.

AD5-3 DRAWINGS:

- A. C401 – CONSTRUCTION DETAILS
 - a. Replace the sheet in its entirety to revise the sidewalk thickness to four inches
- B. A901 – DETENTION DOOR SCHEDULE
 - a. Revise all head detail references for 28/A902 to be 6/A902
- C. E501 – PANELBOARD SCHEDULES
 - a. Replace sheet in its entirety
- D. E602 – ELECTRICAL LEGEND, NOTES & LIGHTING SCHEDULE
 - a. Replace sheet in its entirety
 - b. Added notes for required rigid conduit for pneumatic tubing and security and detention scope
- E. P301C – GROUND LEVEL PRESSURE PLUMBING PLAN – AREA C
 - a. Replace sheet in its entirety
 - b. Proposed location for the REMR cabinet is added directly outside the Air Compressor room shown on P301C. The location of the cabinet can move to the most economically beneficial location for the project within a secured area. Final location to be coordinated with the DEC, Detention door hardware supplier, Owner and manufacturer requirements based on final cabinet size and clearances.

AD5-4 MISCELLANEOUS:

- A. Pre-Bid RFI's
 - a. Refer to attached Exhibit PB-03 for the current questions and answers from bidders
- B. GENERAL REQUIREMENT: EMBED PLATES
 - a. All wall-mounted bunks, modesty panels, and other furnishings or equipment shall be provided with embed plates for attachment to the CMU walls. The contractor is to coordinate where these embed plates align and adjust accordingly in their provided shop drawings for review.
- C. Example Forms
 - a. Refer to the attached example forms for Bid Bond and Performance & Payment Bond. These are not mandatory forms and are examples as requested during the RFI process.
- D. Substitution Requests:
 - a. Detention Ceiling Panels:
 - i. Accepted Claborne Manufacturing Company
 - b. Detention Padded Surface Systems:
 - i. Rejected Gold Medal Safety Padding due to not meeting 5-year warranty and tensile strength requirements listed in specifications.
 - c. Woven Rod Barriers:
 - i. Accepted Claborne Manufacturing Company

- d. Detention Furniture:
 - i. Accepted Claborne Manufacturing Company based on applicable items identified in substitution request and not all detention furniture.
 - ii. Beds provided are not applicable to this project and are not acceptable.
 - iii. Round tables provided are not applicable to this project and are not acceptable.
 - iv. Grab bars are acceptable without drainage holes
- e. Base Mounted Pump and Air Separators:
 - i. Rejected based on incomplete form for review by Design Team
- f. Mounted Pump and Air Separators:
 - i. Rejected based on incomplete form for review by Design Team

END OF ADDENDUM NUMBER 5

PREPARED BY

GMC

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Goodwyn, Mills and Cawood, Inc.



SECTION 017419 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes administrative and procedural requirements for the following:
 - 1. Disposing of nonhazardous demolition and construction waste.
- B. Related Requirements:
 - 1. Section 042000 "Unit Masonry" for disposal requirements for masonry waste.
 - 2. Section 311000 "Site Clearing" for disposition of waste resulting from site clearing and removal of above- and below-grade improvements.

1.2 DEFINITIONS

- A. Construction Waste: Building, structure, and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- B. Demolition Waste: Building, structure, and site improvement materials resulting from demolition operations.
- C. Disposal: Removal of demolition or construction waste, or deposit in landfill, incinerator acceptable to authorities having jurisdiction.

1.3 WASTE MANAGEMENT PLAN

- A. General: Develop a waste management plan according to requirements in this Section. Plan shall consist of waste identification, and work plan.

PART 2 - PRODUCTS

PART 3 - EXECUTION

3.1 PLAN IMPLEMENTATION

- A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.
- B. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work.
 - 1. Distribute waste management plan to everyone concerned within three days of submittal return.

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2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for recycling, and disposal.
- C. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
 1. Comply with Section 015000 "Temporary Facilities and Controls" for controlling dust and dirt, environmental protection, and noise control.

3.2 DISPOSAL OF WASTE

- A. General: Except for items or materials to be recycled, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
 1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
 2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
- B. Burning: Do not burn waste materials.

END OF SECTION 017419

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SECTION 090000 – MATERIAL AND FINISH CODES

TAG	DIVISION	SPECIFICATION SECTION	DESCRIPTION
AC	095100	ACOUSTICAL PANEL CEILINGS	
AC-01	095100	ACOUSTICAL CEILING TILE	
		Manufacturer	ARMSTRONG
		Product Name	OPTIMA - 1410WH
		Grid	SQUARE TEGULAR 9/16"
		Size	2' X 2' & 2' X 4' (refer to plan for locations)
		Color / Finish	WHITE
		NRC Rating	0.95 NRC
AWP	098433	SOUND ABSORBING WALL UNITS	
AWP-01	098433	ACOUSTICAL WALL PANEL	
		Manufacturer	ARMSTRONG
		Product Name	TECTUM FINALE WALL PANELS
		Size	2'X4' / 4'X4' / 4'X8'
		Color / Finish	COLOR TO MATCH PT-02, PT-07, PT-08, PT-09
		NRC Rating	0.90 NRC
CPT	096810	CARPET	
CPT-01	096810	CARPET TILE	
		Manufacturer	FORBO
		Product Name	FLOTIX CONVERGE
		Size	40"X10"
		Color / Finish	AURORA - 141002
		Installation Method	HERRINGBONE
PL	064000	ARCHITECTURAL WOODWORK	
PL-01	064000	PLASTIC LAMINATE CABINET	
		Manufacturer	FORMICA COLORCORE2
		Product Name	928C-58
		Color / Finish	STORM / MATTE

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PT	099100	PAINTING	
PT-01	099100	PAINT	NOT USED
PT-02	099100	PAINT	GENERAL WALL PAINT
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	GENERAL WHITE - SW 7008 ALABASTER
		Finish	EPOXY
		Location	
PT-03	99100	PAINT	DETENTION CEILING PAINT
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	SW 7757 HIGH REFLECTIVE WHITE
		Finish	EPOXY
		Location	
PT-04	099100	PAINT	GENERAL WALL PAINT
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	ACCENT GRAY - SW 7643 PUSSYWILLOW
		Finish	EPOXY
		Location	
PT-05	099100	PAINT	DOOR/GLAZING FRAMES
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	SW 7069 IRON ORE
		Finish	EPOXY
		Location	
PT-06	099100	PAINT	ACCENT PAINT
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	SW 9056 FRENCH MOIRE
		Finish	EPOXY
		Location	MENTAL HEALTH DOOR FRAMES
PT-07	099100	PAINT	ACCENT PAINT
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	SW 7742 AGATE GREEN

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		Finish	EPOXY
		Location	
PT-08	099100	PAINT	ACCENT PAINT
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	SW 9058 SECRET COVE
		Finish	EPOXY
		Location	MENTAL HEALTH
PT-09	099100	PAINT	ACCENT PAINT
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	SW 6550 MYTHICAL
		Finish	EPOXY
		Location	
PT-10	099100	PAINT	CEILING PAINT
		Manufacturer	SHERWIN WILLIAMS
		Product Name/Color	SW 7008 ALABASTER
		Finish	FLAT
		Location	
RF	096500	RESILIENT FLOORING AND ACCESSORIES	
LVT-01	965000	RESILIENT FLOORING	
		Manufacturer	INTERFACE
		Product Name	BRUSHED LINES
		Size / Thickness	25CMX1M
		Color / Finish	SANDALWOOD A01608
		Location	CONTROL ROOM
RB-01	965000	RESILIENT BASE	
		Manufacturer	TARKETT
		Product Name	TRADITIONAL RUBBER BASE
		Size / Thickness	4"
		Color / Finish	BURNT UMBER
		Location	EXAM

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SSM	123661	SIMULATED STONE COUNTERTOPS	
SSM-01	123661	SOLID SURFACE COUNTERTOP	
		Manufacturer	KRION
		Product Name	SOLID SURFACE
		Size / Thickness	N/A
		Color / Finish	STAR SERIES / GREY STAR / 7905
SC	033543	POLISHED CONCRETE FINISHING	
CS-01		SEALED CONCRETE	
		Manufacturer	EUCLID CHEMICAL CO.
		Product Name	EUCO DIAMOND HARD
		Size / Thickness	N/A
		Color / Finish	CLEAR
HPC	099613	SPECIALTY FINISH	
HPC-01	099613	SPECIALTY FINISH	
		Manufacturer	PRIMECOAT - SEAMLESS COATING SYSTEM
		Product Name	SEAMLESS SYSTEM 5130
		Size / Thickness	
		Color / Finish	White - C-18
DPS	111940	DETENTION PADDED SURFACE SYSTEMS	
DPS-01	111940	DETENTION PADDED SURFACE	
		Manufacturer	PRIMECOAT - SAFETY PADDING
		Product Name	PRIME FLEX 4730
		Size / Thickness	PER SPECIFICATIONS
		Color / Finish	White - C-03 Light Gray

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SC			
SC-01		SECURITY CEILING	
		Manufacturer	NOT USED
		Product Name	
		Grid	
		Size	
		Color / Finish	
		NRC Rating	
SC-02		SECURITY CEILING	NOT USED
		Manufacturer	
		Product Name	
		Grid	
		Size	
		Color / Finish	
		NRC Rating	
		Notes	
SC-03		SECURITY CEILING	
		Manufacturer	TRUSSBILT- BASIS OF DESIGN
		Product Name	TRUSSDEK - DOUBLE SKIN SHIP-LAP JOINT PLANK CEILING SYSTEM
		Grid	
		Size	24"X6' / 24"X8' / 24"X10'
		Color / Finish	PT-03
		NRC Rating	
		Notes	EXCLUDE ACOUSTIC PERFORATIONS

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SECTION 090001 – FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	CEILING	WALL FINISH COMMENTS
M- 124	ENTRY	CS-01	PT	Open to Struct	
M-131	OFFICE	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-132	OFFICE	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-133	EQUIP STORAGE	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-134	CORRIDOR	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-135	SOILED LAUNDRY	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-136	CLEAN LAUNDRY	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-137	NURSE STATION	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-138	CORRIDOR	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-139	VESTIBULE	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
M-140	2-BED ISOLATION	CS-01	PT	SC-03	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
M-141	VESTIBULE	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
M-142	2-BED ISOLATION	CS-01	PT	SC-03	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
M-143	VESTIBULE	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
M-144	2-BED ISOLATION	CS-01	PT	SC-03	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
M-145	VESTIBULE	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
M-146	1-BED ADA OBS	CS-01	PT	SC-03	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
M-147	2-BED OBS	CS-01	PT	SC-03	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL.

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					MATCH HEIGHT OF EXISTING GREY PAINT, UON.
M-148	SHOWER	HPC-01	HPC-01	SC-03 WITH HPC-01	ALL WALLS TO BE PAINTED HPC-01.
M-149	SGT OFC	CPT-04	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
M-150	2-BED OBS	CS-01	PT	SC-03	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
M-151	2-BED OBS	CS-01	PT	SC-03	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
M-152	2-BED OBS	CS-01	PT	SC-03	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
M- 153	MED CHASE 1	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
M- 154	MED CHASE 2	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1301	VESTIBULE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1302	CONTROL	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1303	VESTIBULE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1304	REC YARD	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1305	VESTIBULE	CS-01	PT	GYP & Open to Struct	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-04 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON. SEE ELEVATION FOR ACOUSTIC WALL PANEL REQUIREMENTS. GPY BOARD CEILING AT ENTRANCE OF VESTIBULE TO BE PAINTED PT-10. SEE REFLECTED CEILING PLAN FOR SPECIFIC LOCATION.
H- 1306	1-BED CELL	CS-01	PT	SC-03	REAR PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.

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H- 1307	1-BED CELL	CS-01	PT	SC-03	REAR PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H- 1308	2-BED CELL	CS-01	PT	SC-03	REAR PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H- 1309	2-BED CELL	CS-01	PT	SC-03	REAR PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H- 1310	2-BED CELL	CS-01	PT	SC-03	REAR SOUTH AND SOUTHEAST PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PAINTED PT-06, EXCLUDING CELL DOOR.
H- 1311	TOILET	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
H- 1312	ADA SHOWER	HPC-01	HPC-01	SC-03 WITH HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1313	INTERVIEW	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
H- 1314	INTERVIEW	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
H-1315	1-BED ADA CELL	CS-01	PT	SC-03	ENTIRE WEST WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H-1316	1-BED ADA CELL	CS-01	PT	SC-03	ENTIRE WEST WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H- 1317	INTERVIEW	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
H-1318	INTERVIEW	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
H- 1319	ADA SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.

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H-1320	VESTIBULE	CS-01	PT	GYP & Open to Struct	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-04 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON. SEE ELEVATION FOR ACOUSTIC WALL PANEL REQUIREMENTS. GYP BOARD CEILING AT ENTRANCE OF VESTIBULE TO BE PAINTED PT-10. SEE REFLECTED CEILING PLAN FOR SPECIFIC LOCATION.
H- 1321	JANITOR	CS-01	PT	Open to Struct	REAR PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H-1322	1-BED CELL	CS-01	PT	SC-03	REAR PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H-1323	2-BED CELL	CS-01	PT	SC-03	REAR PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H-1324	2-BED CELL	CS-01	PT	SC-03	REAR PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H-1325	2-BED CELL	CS-01	PT	SC-03	REAR NORTH AND NORTHEAST PLUMBING WALL TO BE PAINTED PT-08. CELL WINDOW AND DOOR FRAMES TO BE PATINED PT-06, EXCLUDING CELL DOOR.
H-1326	2-BED CELL	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
H- 1401	NURSE OFC	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
H- 1402	INTERVIEW	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
H- 1403	PADDED CELL	DPS-01	DPS-01	SC-03 WITH HPC-01	PAINT PRIME COATED CEILING PANELS WITH HPC-01
H- 1404	1-BED ADA CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.

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H-1405	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1406	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1407	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1408	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1409	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1410	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1411	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1412	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1413	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.

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H-1414	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1415	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H- 1416	REC YARD	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1417	SALLY PORT	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1418	REC YARD	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1419	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1420	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1422	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1423	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1424	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1425	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.

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H-1426	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1427	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1428	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1429	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1430	1-BED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1431	PADDED CELL	CS-01	PT	SC-03 WITH HPC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H- 1432	SGT OFC	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
H- 1433	CORRIDOR	CS-01	PT	GYP & Open to Struct	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-04 ON BOTTOM HALF OF WALL. MATCH HEIGHT OF EXISTING GREY PAINT, UON. SEE ELEVATION FOR ACOUSTIC WALL PANEL REQUIREMENTS. GPY BOARD CEILING AT ENTRANCE OF CORRIDOR TO BE PAINTED PT-10. SEE REFLECTED CEILING PLAN FOR SPECIFIC LOCATION.
H- 1444	STORAGE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1443	SHOWER	HPC-01	HPC-01	SC-03 WITH HPC-01	ALL WALLS TO BE PAINTED HPC-01.

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H- 1442	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1441	SHOWER	HPC-01	HPC-01	SC-03 WITH HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1440	JANITOR	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1439	ADA SHOWER	HPC-01	HPC-01	SC-03 WITH HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1438	CHASE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1437	ADA SHOWER	HPC-01	HPC-01	SC-03 WITH HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H-1436	PROP STORAGE	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
H-1435	PROP STORAGE	CS-01	PT	SC-03	ALL WALLS TO BE PAINTED PT-02
H 1503	2 BED ADA CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1504 A	ADA SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1504 B	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1505	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H-1506	2-BED ADA CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1507	2-BED ADA CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1508	DAYROOM	CS-01	PT	AC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON. ACOUSTIC PANELS TO MATCH PT-07
H-1509	CORRIDOR	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H- 1510	CONTROL	LVT-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
H-1511	TOILET	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
H-1512	CORRIDOR	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1501	2-BED ADA CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1502	2-BED ADA CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1522	DAYROOM	CS-01	PT	AC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-07 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON. ACOUSTIC PANELS TO MATCH PT-07
H-1513	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1514	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1515	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1516	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02

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H-1517A	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H-1518	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1517B	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1519	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1520	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1521	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1532	DAYROOM	CS-01	PT	AC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-08 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON. ACOUSTIC PANELS TO MATCH PT-08.
H-1523	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1524	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1525	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1526A	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H-1527	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1526B	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1528	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1529	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1530	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1531	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1533	DAYROOM	CS-01	PT	AC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-08 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON. ACOUSTIC PANELS TO MATCH PT-08.
H-1534	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1535	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1536	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1537	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1537A	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H-1538	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1537B	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1539	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1540	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1541	SALLY PORT	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02

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					WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-08 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON. ACOUSTIC PANELS TO MATCH PT-08.
H-1552	DAYROOM	CS-01	PT	AC-01	
H-1543	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1544	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1545	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H- 1546A	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H-1547	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1546B	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1548	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1549	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1550	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1551	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
					WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON. ACOUSTIC PANELS TO MATCH PT-09.
H-1562	DAYROOM	CS-01	PT	AC-01	
H-1553	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1554	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1555	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1556A	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1557	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1556B	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1558	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1559	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1560	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1561	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
					WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON. ACOUSTIC PANELS TO MATCH PT-09.
H-1566	DAYROOM	CS-01	PT	AC-01	
H-1563	2-BED ADA CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1564	2-BED ADA CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02

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H-1565A	ADA SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1565B	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1571	DAYROOM	CS-01	PT	AC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-09 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON. ACOUSTIC PANELS TO MATCH PT-09.
H-1567	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1568	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1569	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-1570A	SHOWER	HPC-01	HPC-01	HPC-01	ALL WALLS TO BE PAINTED HPC-01.
H- 1570B	CHASE	CS-01	PT-02	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1578	CORRIDOR	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1572	JANITOR	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1573	STAFF TOILET	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1574	NURSE OFFICE	CPT-01	RB-01	AC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-08 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1575	INTERVIEW	CPT-01	PT	SC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-08 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1576	STORAGE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-1577	MULTI-PURPOSE	CS-01	PT	AC-01	WALLS TO BE TWO TONED. PAINTED PT-02 ON TOP HALF OF WALL AND PT-08 ON BOTTOM HALF OF WALL. ACCENT PAINT TO MATCH HEIGHT OF EXISTING GREY PAINT, UON.
H-1579	REC YARD	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
H-2224	CELL TIER	CS-01	PT	GYP	ALL GYP BOARD CEILINGS TO BE PAINTED PT-10
H-2225	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2226	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2227	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2228	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2229	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2230	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02

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H-2231	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2232	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2233	CELL TIER	CS-01	PT	GYP	ALL WALLS TO BE PAINTED PT-02. ALL GYP BOARD CEILINGS TO BE PAINTED PT-10
H-2234	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2235	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2236	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2237	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2238	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2239	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2240	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2241	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2242	CELL TIER	CS-01	PT	GYP	ALL WALLS TO BE PAINTED PT-02. ALL GYP BOARD CEILINGS TO BE PAINTED PT-10
H-2243	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2244	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2245	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2246	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2247	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2248	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2249	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2250	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2251	CELL TIER	CS-01	PT	GYP	ALL WALLS TO BE PAINTED PT-02. ALL GYP BOARD CEILINGS TO BE PAINTED PT-10
H-2252	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2253	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2254	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2255	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2256	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2257	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2258	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2259	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2260	CELL TIER	CS-01	PT	GYP	ALL WALLS TO BE PAINTED PT-02. ALL GYP BOARD CEILINGS TO BE PAINTED PT-10

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H-2261	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2262	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2263	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2264	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2265	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2266	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2267	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2268	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2269	CELL TIER	CS-01	PT	GYP	ALL WALLS TO BE PAINTED PT-02. ALL GYP BOARD CEILINGS TO BE PAINTED PT-10
H-2270	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2271	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2272	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2273	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2274	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2275	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2276	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2277	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2278	CELL TIER	CS-01	PT	GYP	ALL WALLS TO BE PAINTED PT-02. ALL GYP BOARD CEILINGS TO BE PAINTED PT-10
H-2279	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2280	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2281	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2282	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2283	CELL TIER	CS-01	PT	GYP	ALL WALLS TO BE PAINTED PT-02. ALL GYP BOARD CEILINGS TO BE PAINTED PT-10
H-2284	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2285	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2286	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
H-2287	2-BED CELL	CS-01	PT	CS-01	ALL WALLS TO BE PAINTED PT-02
S- 2001	MECHANICAL	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S- 120	ELECTRICAL	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S- 121	GENERATOR EQUIPMENT	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-131	CORRIDOR	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02

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S-132	CHASE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-133	STORAGE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-134	ELEC	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-135	CHASE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-136	CHASE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-137	SEC/IT	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-138	MECHANICAL ROOM ACCES	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-140	SUPPORT	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-141	SALLY PORT	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-142	SALLYPORT	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-143	CHASE	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
S-145	SALLY PORT	CS-01	PT	Open to Struct	ALL WALLS TO BE PAINTED PT-02
B-132	ISSUE STORAGE	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
B-136	OFFICE	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
B-137	OFFICE	CS-01	PT	AC-01	ALL WALLS TO BE PAINTED PT-02
A-100	CENTRAL CONTROL	CPT-01	PT	EXIST.	ALL WALLS TO BE PAINTED PT-02

SECTION 28 05 26 - GROUNDING AND BONDING FOR ELECTRONIC SAFETY AND SECURITY SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Grounding conductors.
 - 2. Grounding connectors.
 - 3. Grounding busbars.
 - 4. Grounding rods.
 - 5. Grounding labeling.

1.3 DEFINITIONS

- A. EMT: Electrical metallic tubing.
- B. TBB: Telecommunications Bonding Backbone
- C. TGB: Telecommunications grounding busbar.
- D. TMGB: Telecommunications main grounding busbar.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
- C. Shop Drawings: For communications equipment room signal reference grid. Include plans, elevations, sections, details, and attachments to other work.

1.5 INFORMATIONAL SUBMITTALS

- A. As-Built Data: Plans showing as-built locations of grounding and bonding infrastructure, including the following:
 - 1. Ground rods.
 - 2. Ground and roof rings.

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3. BCT, TMGB, TGBs, and routing of their bonding conductors.
4. Rack Mount UPS

- B. Qualification Data: For Installer.
- C. Qualification Data: For testing agency and testing agency's field supervisor.
- D. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For grounding to include in emergency, operation, and maintenance manuals.
 1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include the following:
 - a. Result of the ground-resistance test, measured at the point of BCT connection.
 - b. Result of the bonding-resistance test at each TGB and its nearest grounding electrode.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications: Cabling Installer must have personnel certified by BICSI on staff.
 1. Installation Supervision: Installation shall be under the direct supervision of ITS Supervisor, who shall be present at all times when Work of this Section is performed at Project site.
 2. Field Inspector: Currently registered by BICSI as an RCDD to perform the on-site inspection.

PART 2 - PRODUCTS

2.1 SYSTEM COMPONENTS

- A. Comply with J-STD-607-A.

2.2 CONDUCTORS

- A. Manufacturers: Subject to compliance with the requirements, available manufacturer offering products that may be incorporated into the work include, but are not limited to the following:
 1. Harger Lightning and Grounding
 2. Panduit Corp.
 3. Chatsworth
 4. Or Approved Equal by the Owner
- B. Comply with UL 486A-486B.

- C. Insulated Conductors: Stranded copper wire, green or green with yellow stripe insulation, insulated for 600 V, and complying with UL 83.
 - 1. Ground wire for custom-length equipment ground jumpers shall be No. 6 AWG, 19-strand, UL-listed, Type THHN wire.
 - 2. Cable Tray Equipment Grounding Wire: No. 6 AWG.
- D. Cable Tray Grounding Jumper:
 - 1. Not smaller than No. 6 AWG and not longer than 12 inches. If jumper is a wire, it shall have a crimped grounding lug with two holes and long barrel for two crimps. If jumper is a flexible braid, it shall have a one-hole ferrule. Attach with grounding screw or connector provided by cable tray manufacturer.
 - 2. Not smaller than No. 10 AWG and not longer than 12 inches. If jumper is a wire, it shall have a crimped grounding lug with one hole and standard barrel for one crimp. If jumper is a flexible braid, it shall have a one- or two-hole ferrule. Attach with grounding screw or connector provided by cable tray manufacturer.
- E. Bare Copper Conductors:
 - 1. Solid Conductors: ASTM B 3.
 - 2. Stranded Conductors: ASTM B 8.
 - 3. Tinned Conductors: ASTM B 33.
 - 4. Bonding Cable: 6 AWG, 14 strands of No. 17 AWG conductor, and 1/4 inch in diameter.
 - 5. Bonding Conductor: No. 4 or No. 6 AWG, stranded conductor.
 - 6. Bonding Jumper: Tinned-copper tape, braided conductors terminated with two-hole copper ferrules; 1-5/8 inches wide and 1/16 inch thick.

2.3 CONNECTORS

- A. Manufacturers: Subject to compliance with the requirements, available manufacturer offering products that may be incorporated into the work include, but are not limited to the following:
 - 1. Harger Lightning and Grounding
 - 2. Panduit Corp.
 - 3. Chatsworth
 - 4. Or Approved Equal by the Owner
- B. Irreversible connectors listed for the purpose. Listed by an NRTL as complying with NFPA 70 for specific types, sizes, and combinations of conductors and other items connected. Comply with UL 486A-486B.
- C. Compression Wire Connectors: Crimp-and-compress connectors that bond to the conductor when the connector is compressed around the conductor. Comply with UL 467.
 - 1. Electroplated tinned copper, C and H shaped.
- D. Signal Reference Grid Connectors: Combination of compression wire connectors, access floor grounding clamps, bronze U-bolt grounding clamps, and copper split-bolt connectors, designed for the purpose.

- E. Busbar Connectors: Cast silicon bronze, solderless compression or exothermic-type, mechanical connector; with a long barrel and two holes spaced on 5/8- or 1-inch centers for a two-bolt connection to the busbar.
- F. Welded Connectors: Exothermic-welding kits of types recommended by kit manufacturer for materials being joined and installation conditions.

2.4 GROUNDING BUSBARS

- A. Manufacturers: Subject to compliance with the requirements, available manufacturer offering products that may be incorporated into the work include, but are not limited to the following:
 - 1. Harger Lightning and Grounding
 - 2. Panduit Corp.
 - 3. Chatsworth
 - 4. Or Approved Equal by the Owner
- B. TMGB: Predrilled, wall-mounted, rectangular bars of hard-drawn solid copper, 1/4 by 4 inches in cross section, length as indicated on Drawings. The busbar shall be NRTL listed for use as TMGB and shall comply with J-STD-607-A.
 - 1. Predrilling shall be with holes for use with lugs specified in this Section.
 - 2. Mounting Hardware: Stand-off brackets that provide a 4-inch clearance to access the rear of the busbar. Brackets and bolts shall be stainless steel.
 - 3. Stand-off insulators for mounting shall be Lexan or PVC. Comply with UL 891 for use in 600-V switchboards, impulse tested at 5000 V.
- C. TGB: Predrilled rectangular bars of hard-drawn solid copper, 1/4 by 4 inches in cross section, length as indicated on Drawings. The busbar shall be for wall mounting, shall be NRTL listed as complying with UL 467, and shall comply with J-STD-607-A.
 - 1. Predrilling shall be with holes for use with lugs specified in this Section.
 - 2. Mounting Hardware: Stand-off brackets that provide at least a 4-inch clearance to access the rear of the busbar. Brackets and bolts shall be stainless steel.
 - 3. Stand-off insulators for mounting shall be Lexan or PVC. Comply with UL 891 for use in 600-V switchboards, impulse tested at 5000 V.
- D. Rack and Cabinet Grounding Busbars: Rectangular bars of hard-drawn solid copper, accepting conductors ranging from No. 14 to No. 2/0 AWG, NRTL listed as complying with UL 467, and complying with J-STD-607-A. Predrilling shall be with holes for use with lugs specified in this Section.
 - 1. Cabinet-Mounted Busbar: Terminal block, with stainless-steel or copper-plated hardware for attachment to the cabinet.
 - 2. Rack-Mounted Horizontal Busbar: Designed for mounting in 19- or 23-inch equipment racks. Include a copper splice bar for transitioning to an adjoining rack, and stainless-steel or copper-plated hardware for attachment to the rack.
 - 3. Rack-Mounted Vertical Busbar: 72 or 36 inches long, with stainless-steel or copper-plated hardware for attachment to the rack.

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2.5 GROUND RODS

- A. Manufacturers: Subject to compliance with the requirements, available manufacturer offering products that may be incorporated into the work include, but are not limited to the following:
 - 1. Harger Lightning and Grounding
 - 2. Erico
 - 3. Alltec
- B. Ground Rods: Copper-clad steel, 5/8 diameter by 96 inches long.
- C. Ground Rod Connections: Exothermic weld process. Caldwell Series "GRC".

2.6 5 kVA UPS

- A. Acceptable Manufacturers:
 - 1. Liebert GXT4-5000RT208
 - 2. APC
 - 3. Emerson
- B. Specifications:
 - 1. True on-line design with PWM sine wave output
 - 2. 0.8 Output Power Factor Rating
 - 3. Input PF correction with wide input voltage and frequency range for longer battery life
 - 4. Efficient three-stage charging technique and comprehensive discharging protection
 - 5. +/- 3% output voltage regulation
 - 6. Automatic restart after extended outages
 - 7. Input and output noise suppression
 - 8. Emergency fail safe bypass for mission-critical availability
 - 9. Configurable to operate at voltages of 200/208/220/230/240 VAC
 - 10. Automatic and manual battery test feature
 - 11. Microprocessor-based control and monitoring
 - 12. LCD display for user friendly operation with local monitoring and configuration of operational parameters
 - 13. USB Port and Contact Closure Communications
 - 14. USB compatible with Liebert MultiLink and GXT4 configuration program
 - 15. Intellislot Communications Port
 - 16. Battery start capability
 - 17. Extended run capability
 - 18. MultiLink Shutdown software included for one-to-one shutdown notification
 - 19. Two year warranty
 - 20. Integral hardwire input and output POD (PD2-HDWR)
 - 21. Integral sealed, valve regulated, non-spillable user replaceable batteries
 - 22. Rack mount slide kit (RMKIT18-32) including all mounting hardware
 - 23. SNMP Network card (IS-UNITY-DP), Factory Installed
 - 24. 6.8" W x 26.1" D x 16.9" H (4U), 131.8 lbs each
 - 25. UL / cUL / FCC Class A / EPA Energy Star Qualified
 - 26. Transportation - ISTA Procedure 1E certification
 - 27. Provide (1) UPS per Telecom Cabinet

2.7 LABELING

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the work include, but are not limited to, the following:
 - 1. Corby
 - 2. Brother International Corporation
 - 3. Hellermann Tyton
- B. Comply with TIA/EIA-606-A and UL 969 for a system of labeling materials, including label stocks, laminating adhesives, and inks used by label printers.
- C. Adhesive Film Label with Clear Protective Overlay: Machine printed, in black, by thermal transfer or equivalent process. Minimum letter height shall be 3/8 inch. Overlay shall provide a weatherproof and UV-resistant seal for label.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine the ac grounding electrode system and equipment grounding for compliance with requirements for maximum ground-resistance level and other conditions affecting performance of grounding and bonding of the electrical system.
- B. Inspect the test results of the ac grounding system measured at the point of TBB connection.
- C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
- D. Proceed with connection of the TBB only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. All installation of the Telecommunications Ground Systems shall be performed by a BICSI certified Installer. This includes but is not limited to:
 - 1. All busbars
 - 2. All bonding conductors
 - 3. Bonding to all non-active (non-current carrying) metal support structures, rack, runway, etc. within each Telecommunication Room or Space. Coordinate this bonding with the supplier and installer of rack, runway, etc.
- B. Bonding shall include the communications cable entrance. The bonding of these elements shall form a loop so that each element is connected to at least two others.
- C. Comply with NECA 1.
- D. Comply with J-STD-607-A.

3.3 SPECIFICATIONS

- A. Conductors: Install solid conductor for No. 8 AWG and smaller and stranded conductors for No. 6 AWG and larger unless otherwise indicated.
 - 1. The bonding conductors between the TGB and structural steel of steel-frame buildings shall not be smaller than No. 6 AWG.
 - 2. The bonding conductors between the TMGB and structural steel of steel-frame buildings shall not be smaller than No. 6 AWG.
- B. Underground Grounding Conductors: Install bare tinned-copper conductor, No. 2 AWG minimum.
- C. Conductor Terminations and Connections:
 - 1. Pipe and Equipment Grounding Conductor Terminations: Bolted connectors.
 - 2. Underground Connections: Welded connectors except at test wells and as otherwise indicated.
 - 3. Connections to Ground Rods at Test Wells: Bolted connectors.
 - 4. Connections to Structural Steel: Welded connectors.
- D. Conductor Support:
 - 1. Secure grounding and bonding conductors at intervals of not less than 36 inches.
- E. Grounding and Bonding Conductors:
 - 1. Install in the straightest and shortest route between the origination and termination point, and no longer than required. The bend radius shall not be smaller than eight times the diameter of the conductor. No one bend may exceed 90 degrees.
 - 2. Install without splices.
 - 3. Support at not more than 36-inch intervals.
 - 4. Install grounding and bonding conductors in 3/4-inch PVC conduit until conduit enters a telecommunications room. The grounding and bonding conductor pathway through a plenum shall be in EMT. Conductors shall not be installed in EMT unless otherwise indicated.
 - a. If a grounding and bonding conductor is installed in ferrous metallic conduit, bond the conductor to the conduit using a grounding bushing that complies with requirements in Section 280528 "Pathways for Communications Systems," and bond both ends of the conduit to a TGB.

3.4 GROUNDING ELECTRODE SYSTEM

- A. The TBB between the TMGB and the ac service equipment ground shall not be smaller than No. 3/0 AWG.

3.5 GROUNDING BUSBARS

- A. Indicate locations of grounding busbars on Drawings. Install busbars horizontally, on insulated spacers 2 inches minimum from wall, 12 inches above finished floor unless otherwise indicated.

- B. Where indicated on both sides of doorways, route bus up to top of door frame, across top of doorway, and down; connect to horizontal bus.

3.6 CONNECTIONS

- A. Bond metallic equipment in a telecommunications equipment room to the grounding busbar in that room, using equipment grounding conductors not smaller than **No. 6** AWG.
- B. Stacking of conductors under a single bolt is not permitted when connecting to busbars.
- C. Assemble the wire connector to the conductor, complying with manufacturer's written instructions and as follows:
 - 1. Use crimping tool and the die specific to the connector.
 - 2. Pretwist the conductor.
 - 3. Apply an antioxidant compound to all bolted and compression connections.
- D. Primary Protector: Bond to the TMGB with insulated bonding conductor.
- E. Interconnections: Interconnect all TGBs with the TMGB with the telecommunications backbone conductor. If more than one TMGB is installed, interconnect TMGBs using the grounding equalizer conductor. The telecommunications backbone conductor and grounding equalizer conductor size shall not be less than 14 AWG, up to a maximum size of No. 3/0 AWG unless otherwise indicated.
- F. Telecommunications Enclosures and Equipment Racks: Bond metallic components of enclosures to the telecommunications bonding and grounding system. Install vertically mounted rack grounding busbar unless the enclosure and rack are manufactured with the busbar. Bond the equipment grounding busbar to the TGB No. 2 AWG bonding conductors.
- G. Structural Steel: Where the structural steel of a steel frame building is readily accessible within the room or space, bond each TGB and TMGB to the vertical steel of the building frame.
- H. Electrical Power Panelboards: Where an electrical panelboard for telecommunications equipment is located in the same room or space, bond each TGB to the ground bar of the panelboard.
- I. Shielded Cable: Bond the shield of shielded cable to the TGB in communications rooms and spaces. Comply with TIA/EIA-568-B.1 and TIA/EIA-568-B.2 when grounding screened, balanced, twisted-pair cables.
- J. Rack- and Cabinet-Mounted Equipment: Bond powered equipment chassis to the cabinet or rack grounding bar. Power connection shall comply with NFPA 70; the equipment grounding conductor in the power cord of cord- and plug-connected equipment shall be considered as a supplement to bonding requirements in this Section.
- K. Access Floors: Bond all metal parts of access floors to the TGB.
- L. Equipment Room Signal Reference Grid: Provide a low-impedance path between telecommunications cabinets, equipment racks, and the reference grid, using No. 6 AWG bonding conductors.

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1. Install the conductors in grid pattern on 4-foot centers, allowing bonding of one pedestal from each access floor tile.
2. Bond the TGB of the equipment room to the reference grid at two or more locations.
3. Bond all conduits and piping entering the equipment room to the TGB at the perimeter of the room.

M. Towers and Antennas:

1. Ground Ring: Buried at least 30 inches below grade and at least 24 inches from the base of the tower or mounting.
2. Bond each tower base and metallic frame of a dish to the ground ring, buried at least 18 inches below grade.
3. Bond the ground ring and antenna grounds to the equipment room TMGB or TGB, buried at least 30 inches below grade.
4. Bond metallic fences within 6 feet of towers and antennas to the ground ring, buried at least 18 inches below grade.
5. Special Requirements for Roof-Mounted Towers:
 - a. Roof Ring: Meet requirements for the ground ring except the conductors shall comply with requirements in Section 264113 "Lightning Protection for Structures."
 - b. Bond tower base footings steel, the TGB in the equipment room, and antenna support guys to the roof ring.
 - c. Connect roof ring to the perimeter conductors of the lightning protection system.
6. Waveguides and Coaxial Cable:
 - a. Bond cable shields at the point of entry into the building to the TGB and to the cable entrance plate, using No. 2 AWG bonding conductors.
 - b. Bond coaxial cable surge arrester to the ground or roof ring using bonding conductor size recommended by surge-arrester manufacturer.

3.7 TELECOMMUNICATIONS RACEWAY AND SUPPORT SYSTEM GROUNDING

- A. Bond and ground raceway, cable rack or tray and conduit together and permanently ground to the equipment grounding busbar. Connection to conduit may be with grounding bushing or ground clamp.
- B. Connect ladder-type cable tray to grounding electrode system. Telecommunications cable tray that is located in the same room as the TMGB shall be connected to the TMGB.
- C. Bond and ground raceway at low voltage motor control centers or other low voltage control equipment, except conduit which is effectively grounded to sheet metal enclosure by bonding bushing or hubs need not be otherwise bonded.
- D. Where a grounding conductor is run in or on a cable tray, bond grounding conductors to each section of cable tray with a cable tray ground clamp.
- E. Where only grounding conductor is installed in a metal conduit, bond both ends of conduit to grounding conductors.
- F. Provide flexible "jumpers" around raceway expansion joints and across cable tray joints parted to allow for expansion and hinged cable tray connections. Provide copper bonding straps for steel conduit.

3.8 GROUNDING UNDERGROUND DISTRIBUTION SYSTEM COMPONENTS

- A. Duct-Bank Grounding Conductor: Bury 12 inches above duct bank when indicated as part of duct-bank installation.
- B. Comply with IEEE C2 grounding requirements.
- C. Grounding Manholes and Handholes: Install a driven ground rod through manhole or handhole floor, close to wall, and set rod depth so 4 inches extends above finished floor. If necessary, install ground rod before manhole is placed and provide No. 1/0 AWG bare, tinned-copper conductor from ground rod into manhole through a waterproof sleeve in manhole wall. Protect ground rods passing through concrete floor with a double wrapping of pressure-sensitive insulating tape or heat-shrunk insulating sleeve from 2 inches above to 6 inches below concrete. Seal floor opening with waterproof, nonshrink grout.
- D. Grounding Connections to Manhole Components: Bond exposed-metal parts such as inserts, cable racks, pulling irons, ladders, and cable shields within each manhole or handhole, to ground rod or grounding conductor. Make connections with No. 4 AWG minimum, bonding conductor. Train conductors level or plumb around corners and fasten to manhole walls. Connect grounding conductors to cable armor and cable shields according to written instructions by manufacturer of splicing and termination kits.

3.9 IDENTIFICATION

- A. Labels shall be preprinted or computer-printed type.
 - 1. Label TMGB(s) with "fs-TMGB," where "fs" is the telecommunications space identifier for the space containing the TMGB.
 - 2. Label TGB(s) with "fs-TGB," where "fs" is the telecommunications space identifier for the space containing the TGB.
 - 3. Label the BCT and each telecommunications backbone conductor at its attachment point: "WARNING! TELECOMMUNICATIONS BONDING CONDUCTOR. DO NOT REMOVE OR DISCONNECT!"

3.10 FIELD QUALITY CONTROL

- A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.
- B. Perform tests and inspections.
- C. Tests and Inspections:
 - 1. Inspect physical and mechanical condition. Verify tightness of accessible, bolted, electrical connections with a calibrated torque wrench according to manufacturer's written instructions.
 - 2. Test the bonding connections of the system using an AC earth ground-resistance tester, taking two-point bonding measurements in each telecommunications equipment room containing a TMGB and a TGB and using the process recommended by BICSI TDMM. Conduct tests with the facility in operation.

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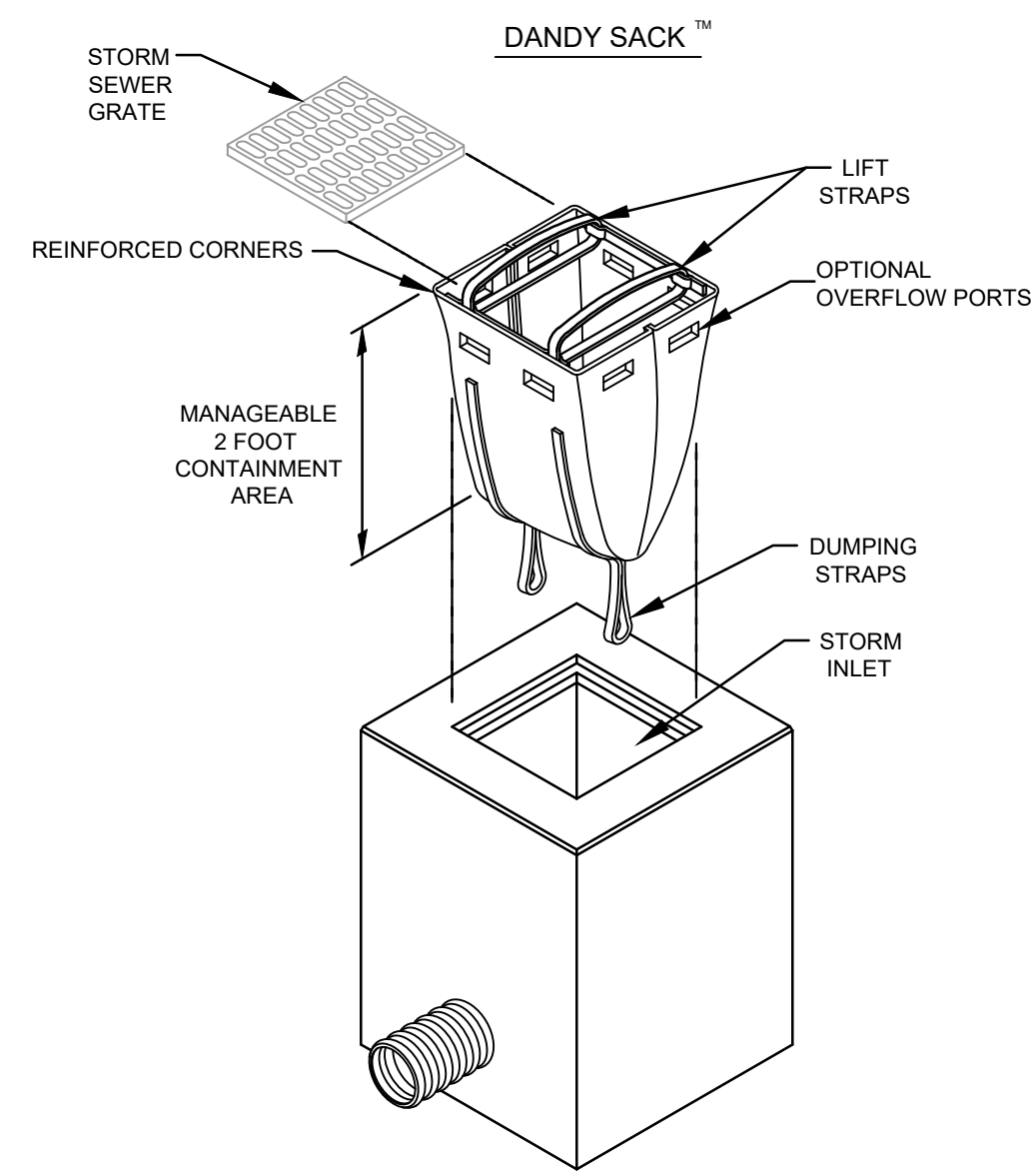
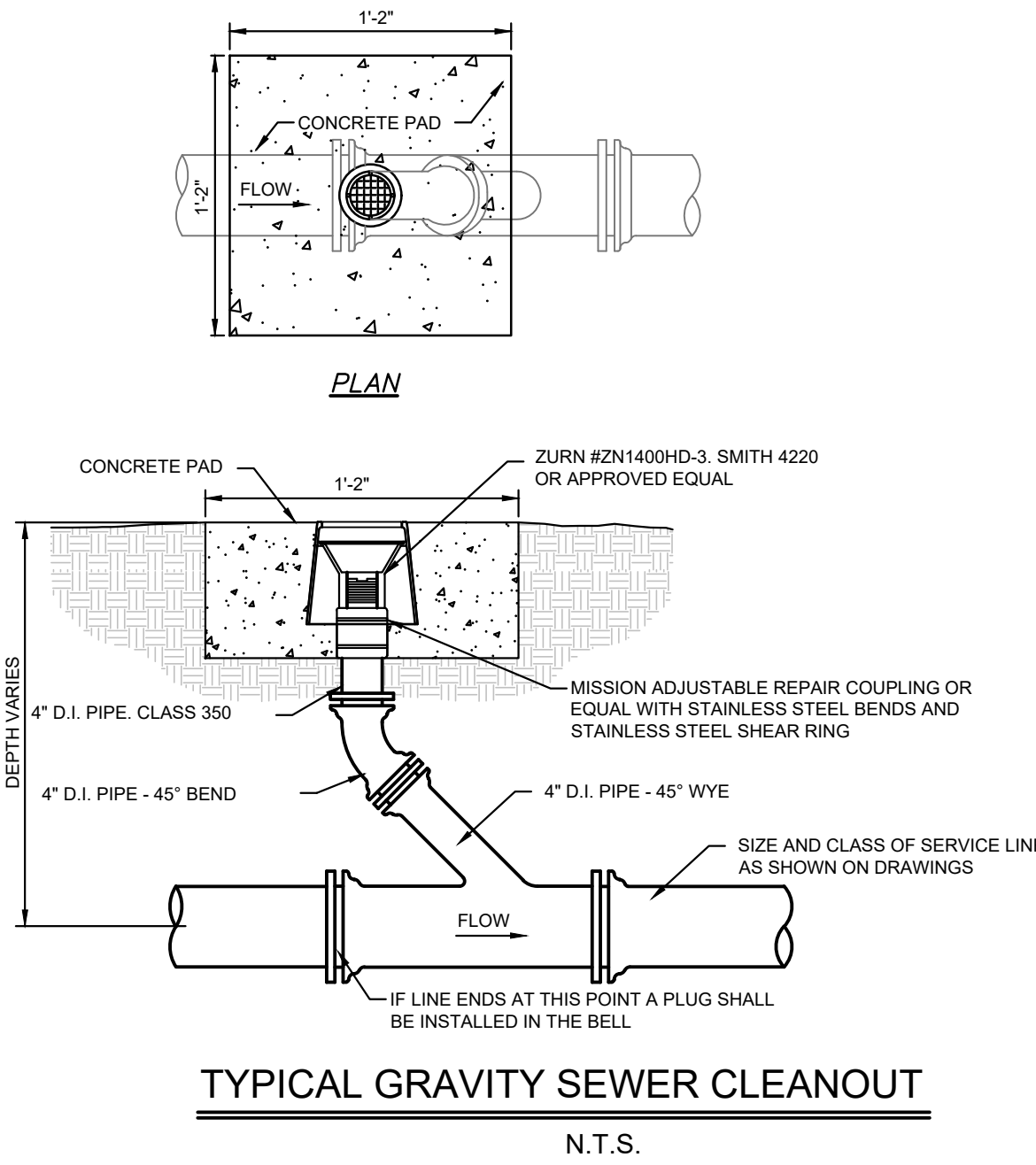
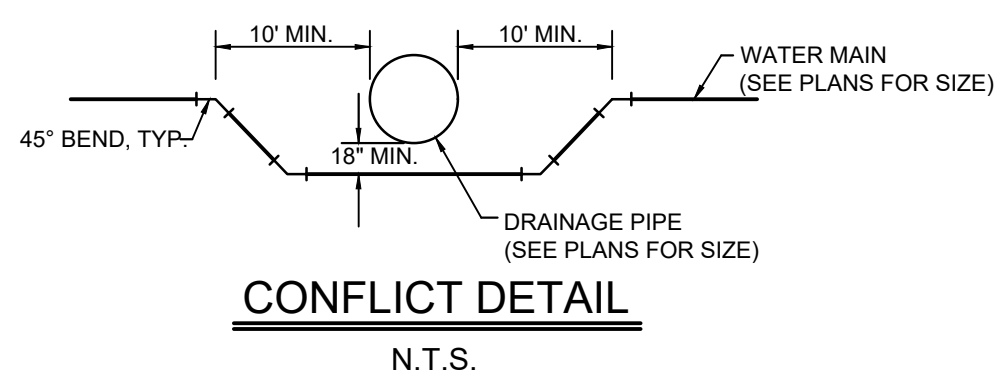
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- a. Measure the resistance between the busbar and the nearest available grounding electrode. The maximum acceptable value of this bonding resistance is 100 milliohms.
3. Test for ground loop currents using a digital clamp-on ammeter, with a full-scale of not more than 10 A, displaying current in increments of 0.01 A at an accuracy of plus/minus 2.0 percent.
 - a. With the grounding infrastructure completed and the communications system electronics operating, measure the current in every conductor connected to the TMGB and in each TGB. Maximum acceptable ac current level is 1 A.
- D. Excessive Ground Resistance: If resistance to ground at the BCT exceeds 5 ohms, notify Architect promptly and include recommendations to reduce ground resistance.
- E. Grounding system will be considered defective if it does not pass tests and inspections.
- F. Prepare test and inspection reports.

END OF SECTION 28 05 26



NOTE: THE DANDY SACK™ WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS:

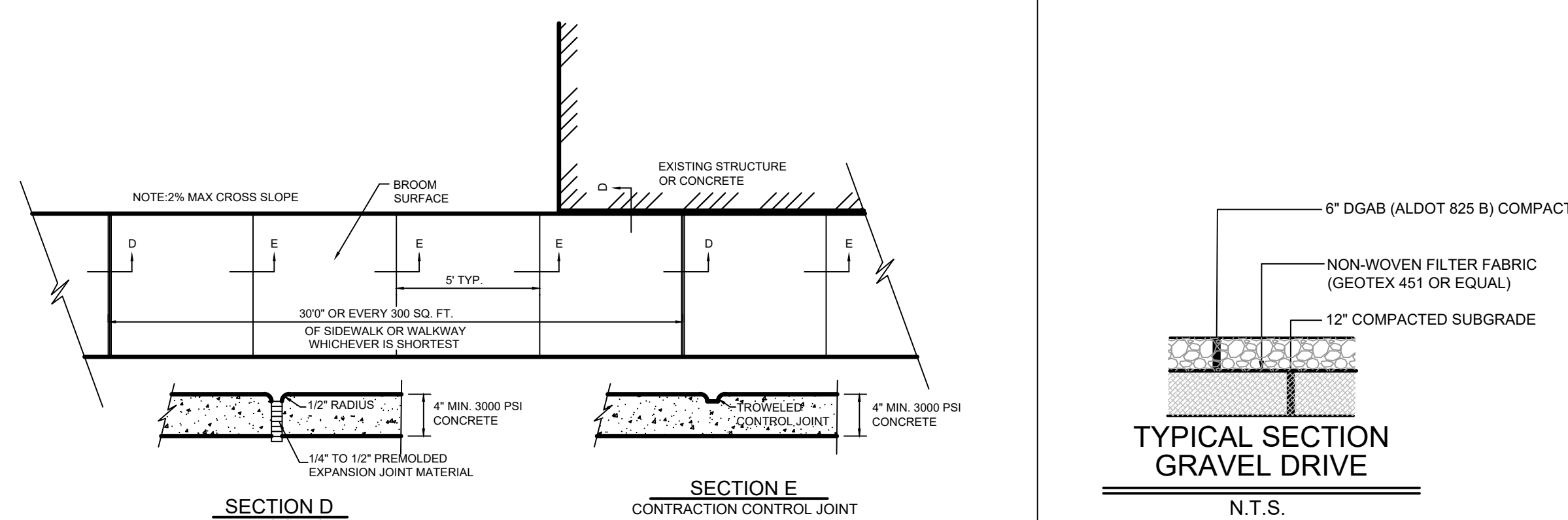
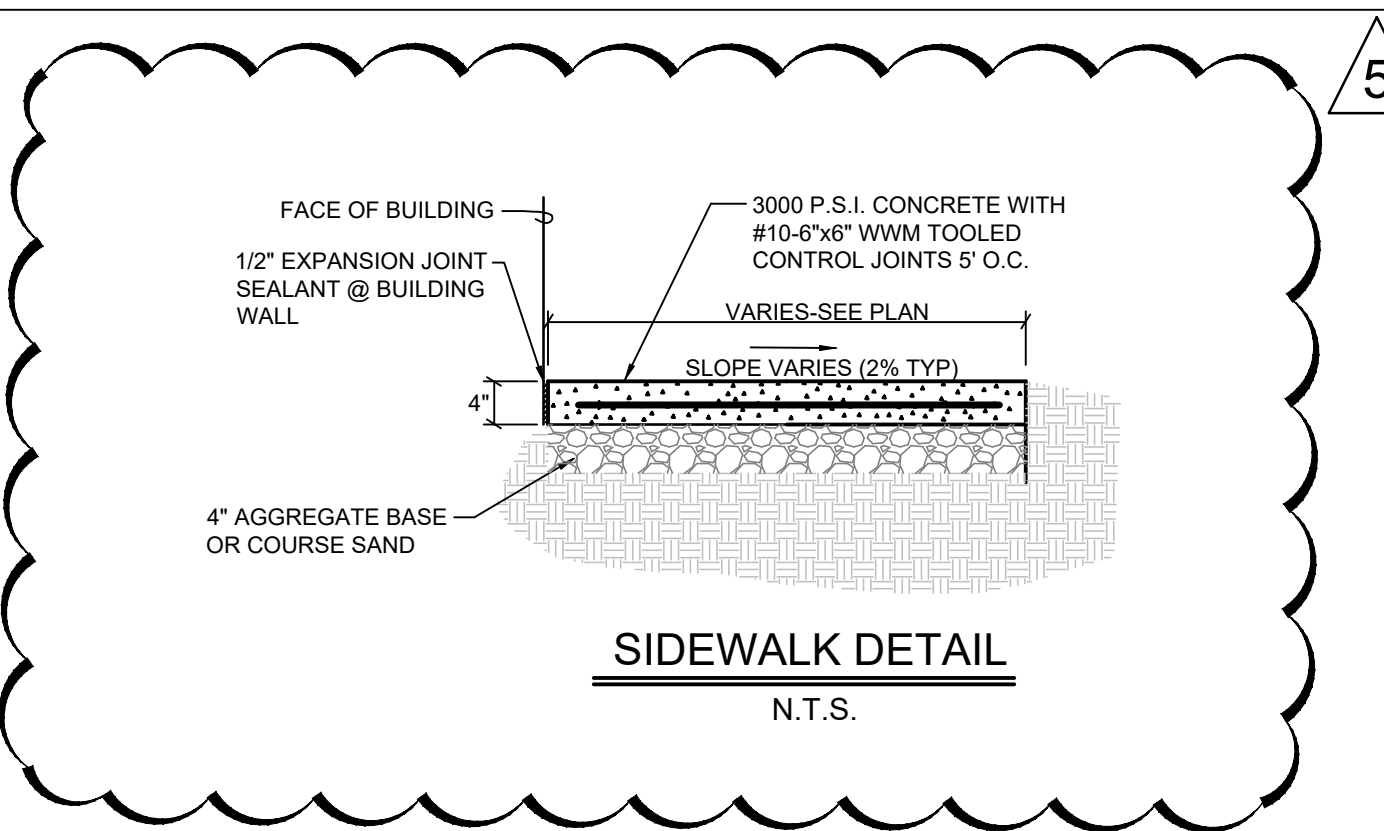
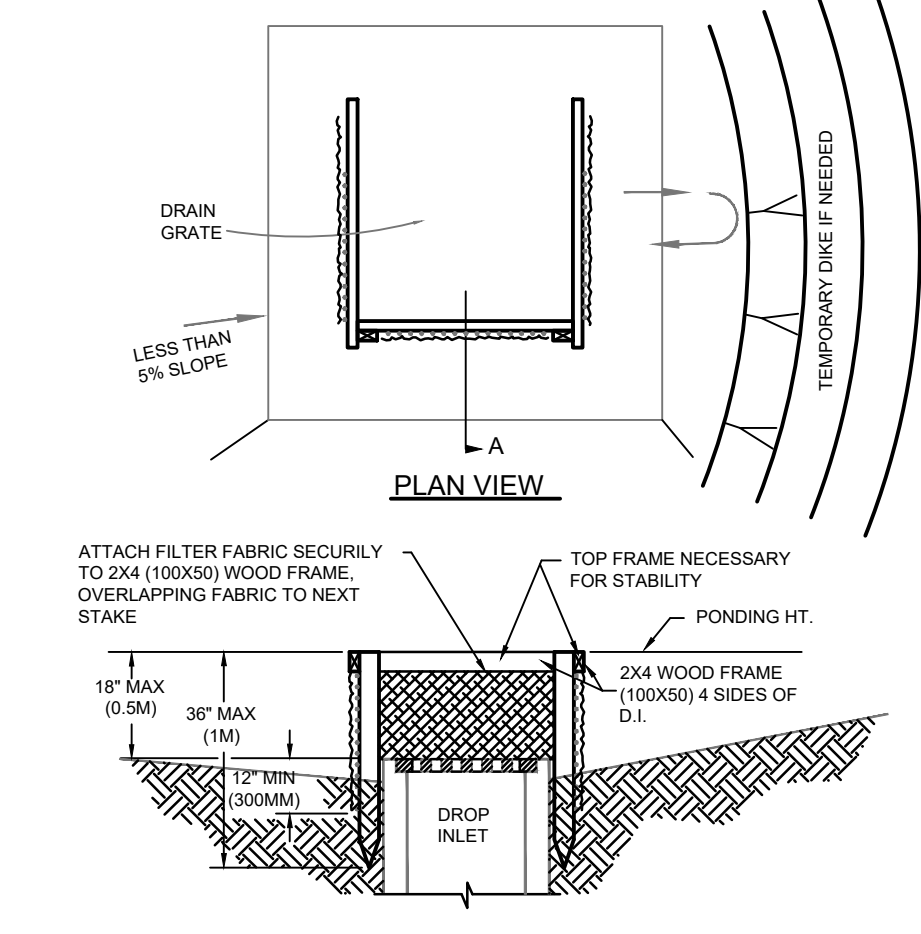
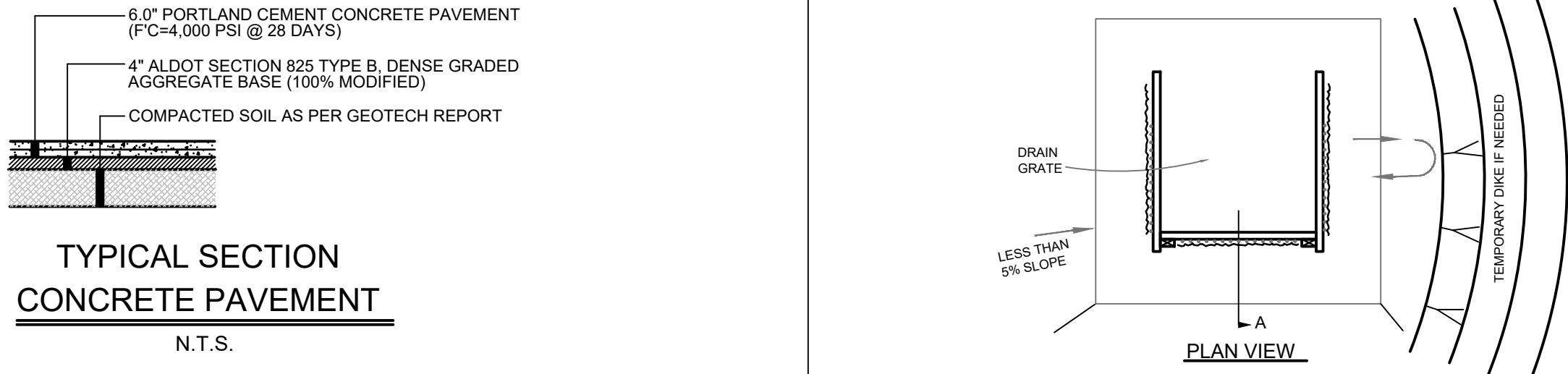
REGULAR FLOW DANDY SACK™ (BLACK)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
Grab Tensile Elongation	ASTM D 4632	%	15 x 15
Puncture Strength	ASTM D 4833	kN (lbs)	0.67 (150)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	5506 (800)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.67 (150) x 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US 50 Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m ² (gal/min/ft ²)	2852 (70)
Permeability	ASTM D 4491	Sec ⁻¹	0.90

HI-FLOW DANDY SACK™ (SAFETY ORANGE)

Mechanical Properties	Test Method	Units	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.82 (365) x 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 x 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) x 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US 50 Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	1/min/m ² (gal/min/ft ²)	5907 (145)
Permeability	ASTM D 4491	Sec ⁻¹	2.1

*Note: All Dandy Sacks™ can be ordered with our optional oil absorbent pillows



EQUIVALENT USCS AND AASHTO SOIL CLASSIFICATIONS FOR SOIL DESIGNATIONS		PERCENT COMPACTION	
SOIL	REPRESENTATIVE SOIL TYPES	STANDARD PROCTOR	MODIFIED PROCTOR
		USCS ASTM D 2487	AASHTO M 145
CATEGORY I	CLEAN, COURSE GRAINED SILTS BEG. W/ GP, GP OR GRAY SILT, BEGINNING WITH ONE OF THOSE EMBODS WITH 12% OR LESS PASSING A #200 SIEVE	A-1, A-3	100 95 90 85
CATEGORY II	COURSE GRAINED SILTS WITH FINES (GM, GC, GR, SC OR CLAY SILT BEGINNING WITH ONE OF THOSE EMBODS, CONTAINING MORE THAN 12% PASSING A #200 SIEVE, SANDY OR GRAVELLY SILT, OR CLAY, CL, ML, CL, ML, CL, ML) WITH 30% OR MORE RETAINED ON A #200 SIEVE	A-2, A-4, A-6, A-2, A-6 OR A-4 OR A-6 SILTS BEG. W/ GP OR MO. SILETS RETAINED ON A #200 SIEVE	100 95 90 85
CATEGORY III	FINE-GRAINED SILTS, CL, ML, CL-CL, CL-ML SILTS WITH LESS THAN 30% RETAINED ON A #200 SIEVE	A-2, A-4 OR A-6 WITH LESS THAN 30% RETAINED ON A #200 SIEVE	100 95 90 85 75
CATEGORY IV	MR, CH, CL, OH, PT	A-5, A-7	100 90 85 80
BUT NOT ALLOWED FOR HAUNCH OR BEDDING			

PRICE UNDER
ALTERNATE #1

PANELBOARD SCHEDULE - RP-EB (SECT. 1)													
PANEL TYPE		SQUARE D' TYPE NO		AC RATING		10KAC (MINIMUM)		MOUNTING		SURFACE		LOCATION	
VOLTAGE		120/208V 3P-4W		MOUNTING		SURFACE		LOCATION		SEE PLANS		FED FROM	
AMPS & TYPE		1500 MAIN BKR		LSI		FEEDER		440 & 114G - 2 1/2"		SEE PLANS		FED FROM	
FED FROM		LP-EB		PHASE		WATTS		DESCRIPTION		BKR		NOTES	
CKT NO	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT NO	NOTES	CKT NO	NOTES
1	-	201	CHASE OUTLETS/UHWS	1,000	A	1,000	CHASE OUTLETS/UHWS	201	-	2	-	2	-
3	-	201	SPARE		B		SPARE	201	-	4	-	4	-
5	-	201	SPARE		C		SPARE	201	-	6	-	6	-
7	-	201	SPARE		A		SPARE	201	-	8	-	8	-
9	-	201	SPARE		B		SPARE	201	-	10	-	10	-
11	-	201	SPARE		C		SPARE	201	-	12	-	12	-
13	-	201	MULTIPURPOSE OUTLETS	400	A	400	MULTIPURPOSE OUTLETS	201	-	14	-	14	-
15	-	201	MULTIPURPOSE OUTLETS	600	B	600	NURSE'S OFFICE OUTLETS	201	-	16	-	16	-
17	-	201	NURSE AREA/CONVENIENCE OUTLE	600	C	600	REC-CORRIDOR CONV OUTLETS	201	-	18	-	18	-
19	-	201	DAYROOM H-1224 OUTLETS	1,000	A	800	DAYROOM CONVENIENCE OUTLETS	201	-	20	-	20	-
21	-	201	DAYROOM H-1225 OUTLETS	1,000	B	800	DAYROOM CONVENIENCE OUTLETS	201	-	22	-	22	-
23	-	201	DAYROOM H-1242 OUTLETS	1,000	C	1,000	DAYROOM H-1252 OUTLETS	201	-	24	-	24	-
25	-	201	DAYROOM H-1262 OUTLETS	1,000	A	800	DAYROOM CONVENIENCE OUTLETS	201	-	26	-	26	-
27	-	201	DAYROOM H-1272 OUTLETS	1,000	B	1,000	DAYROOM H-1282 OUTLETS	201	-	28	-	28	-
29	-	201	DAYROOM H-1282 OUTLETS	1,000	C	800	DAYROOM CONVENIENCE OUTLETS	201	-	30	-	30	-
31	-	201	CORRIDOR OUTLETS	800	A	1,000	LOCKING PANEL	201	-	32	-	32	-
33	-	201	CONTROL ROOM OUTLETS	600	B	1,000	LOCKING PANEL	201	-	34	-	34	-
35	-	201	CONTROL ROOM OUTLETS	600	C		SPARE	201	-	36	-	36	-
37	-	201	EF-20	600	A	1,000	MECHANICAL LEVEL OUTLETS	201	-	38	-	38	-
39	-	201	SPARE		B			201	-	40	-	40	-
41	-	201	SPARE		C		ROOF OUTLETS	201	-	42	-	42	-

RP-EB (SECT. 2)

43	-	201	SPARE		A	-		201	-	64	-	64	-
44	-	201	SPARE		B	-		201	-	65	-	65	-
45	-	201	SPARE		C	-		201	-	66	-	66	-
46	-	201	SPARE		A	-		201	-	67	-	67	-
47	-	201	SPARE		B	-		201	-	68	-	68	-
48	-	201	SPARE		C	-		201	-	69	-	69	-
49	-	201	SPARE		A	-		201	-	70	-	70	-
50	-	201	SPARE		B	-		201	-	71	-	71	-
51	-	201	SPARE		C	-		201	-	72	-	72	-
52	-	201	SPARE		A	-		201	-	73	-	73	-
53	-	201	SPARE		B	-		201	-	74	-	74	-
54	-	201	SPARE		C	-		201	-	75	-	75	-
55	-	201	SPARE		A	-		201	-	76	-	76	-
56	-	201	SPARE		B	-		201	-	77	-	77	-
57	-	201	SPARE		C	-		201	-	78	-	78	-
58	-	201	SPARE		A	-		201	-	79	-	79	-
59	-	201	SPARE		B	-		201	-	80	-	80	-
60	-	201	SPARE		C	-		201	-	81	-	81	-
61	-	201	SPARE		A	-		201	-	82	-	82	-
62	-	201	SPARE		B	-		201	-	83	-	83	-
63	-	201	SPARE		C	-		201	-	84	-	84	-

NOTES		PH A		PH B		PH C		TOTAL CONNECTED LOAD		23.3 KVA	
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE		9,800		6,500		6,500		TOTAL DEMAND LOAD		64.7 AMPS	
PROTECTION DEVICE:								TOTAL COMPUTED LOAD		18.0 KVA	
2. 1"LSI = LSI ELECT. TRIP BREAKER										49.9 AMPS	

PANELBOARD SCHEDULE - LP-EB (SECT. 1)													
PANEL TYPE		SQUARE D' TYPE NF		AC RATING		18KAC (MINIMUM)		MOUNTING		SURFACE		LOCATION	
VOLTAGE		277/480V 3P-4W		MOUNTING		SURFACE		LOCATION		SEE PLANS		FED FROM	
AMPS & TYPE		1000 MAIN BKR		LSI		FEEDER		440 & 114G - 2 1/2"		SEE PLANS		FED FROM	
FED FROM		EX MSBE		PHASE		WATTS		DESCRIPTION		BKR		NOTES	
CKT NO	NOTES	BKR	DESCRIPTION	WATTS	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT NO	NOTES	CKT NO	NOTES
1	-	201	SPARE		A		SPARE	201	-	2	-	2	-
3	-	201	SPARE		B	1,680	NURSE AREA/REC YARD LIGHTING	201	-	LRP	-	LRP	-
5	-	201	CELL LIGHTING	500	C	600	CHASSIS LIGHTING	201	-	6	-	6	-
7	-	201	CELL LIGHTING	750	A	850	CELL LIGHTING	201	-	LRP	-	LRP	-
9	-	201	CELL LIGHTING	850	B	800	CELL LIGHTING	201	-	LRP	-	LRP	-
11	-	201	CELL LIGHTING	850	C	850	CELL LIGHTING	201	-	LRP	-	LRP	-
13	-	201	CELL LIGHTING	850	A	350	CELL LIGHTING	201	-	LRP	-	LRP	-
15	-	201	CELL LIGHTING	400	B	780	DAYROOM LIGHTING	201	-	LRP	-	LRP	-
17	-	201	DAYROOM LIGHTING	780	C	780	DAYROOM LIGHTING	201	-	LRP	-	LRP	-
19	-	201	DAYROOM LIGHTING	780	A	780	DAYROOM LIGHTING	201	-	LRP	-	LRP	-
21	-	201	DAYROOM LIGHTING	780	B	600	DAYROOM LIGHTING	201	-	LRP	-	LRP	-
23	-	201	DAYROOM LIGHTING	600	C	1,050	MECHANICAL LEVEL LIGHTING	201	-	24	-	24	-
25	-	201	SPARE		A		SPARE	201	-	26	-	26	-
27	-	201	SPARE		B		SPARE	201	-	28	-	28	-
29	-	201	SPARE		C		SPARE	201	-	30	-	30	-
31	-	201	SPARE		A		SPARE	201	-	32	-	32	-
33	-	201	SPARE		B		SPARE	201	-	34	-	34	-
35	-	201	SPARE		C		SPARE	201	-	36	-	36	-
37	-	201	SPARE		A	5,983	RP-EB (45 KVA X-FORMER)	803	-	LSI	-	LSI	-
39	-	201	SPARE		B	5,983	384 & 114G - 1 1/4"		-	40	-	40	-
41	-	201	SPARE		C	5,983			-	42	-	42	-

LP-EB (SECT. 2)

43	-	150	BCU-4	429	A	429	BCU-5	150	-	44	-	44	-
45	-	1		429	B	429		1	-	46	-	46	-
47	-	1		429	C	429		1	-	48	-	48	-
49	-	458	AHU-8	3,900	A	6,000	ERV-1	350	-	50	-	50	-
51	-	1		3,900	B	6,000		1	-	52	-	52	-
53	-	1		3,900	C	6,000		1	-	54	-	54	-
55	-	309	AHU-9	2,410	A	-		201	-	56	-	56	-
57	-	1		2,410	B	-		201	-	58	-	58	-
59	-	1		2,410	C	-		201	-	60	-	60	-
61	-	250	SEF-5	2,900	A	-		201	-	62	-	62	-
63	-	1		2,900	B	-		201	-	64	-	64	-
65	-	1		2,900	C	-		201	-	66	-	66	-
67	-	201	-	A	-			201	-	68	-	68	-
69	-	201	-	B	-			201	-	70	-	70	-
71	-	201	-	C	-			201	-	72	-	72	-
73	-	201	-	A	-			201	-	74	-	74	-
75	-	201	-	B	-			201	-	76	-	76	-
77	-	201	-	C	-			201	-	78	-	78	-
79	-	201	-	A	-			201	-	80	-	80	-
81	-	201	-	B	-			201	-	82	-	82	-
83	-	201	-	C	-			201	-	84	-	84	-

NOTES		PH A		PH B		PH C		TOTAL CONNECTED LOAD		88.8 KVA	
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE		26,105		27,635		27,755		TOTAL DEMAND LOAD		108.6 AMPS	
PROTECTION DEVICE:								TOTAL COMPUTED LOAD		101.9 AMPS	
2. 1"LSI = LSI ELECT. TRIP BREAKER										85.6 AMPS	

PANELBOARD SCHEDULE - RP-LSA													
PANEL TYPE		SQUARE D' TYPE NQ		AC RATING		10KAC (MINIMUM)		MOUNTING		SURFACE		LOCATION	
VOLTAGE		120/208V-3P-4W		MOUNTING		SURFACE		LOCATION		SEE PLANS		FED FROM	
AMPS & TYPE		1000 MAIN BKR		LSI		FEEDER		4W3 & 1W6G - 1 1/2"		SEE PLANS		FED FROM	
FED FROM		LP-LSA		PHASE		WATTS		DESCRIPTION		BKR		NOTES	
CKT NO.	NOTES	BKR	DESCRIPTION	PHASE	WATTS	DESCRIPTION	PHASE	WATTS	DESCRIPTION	BKR	NOTES	CKT NO.	NOTES
1	-	201I	NOVEK PANEL	A	400	NOVEK PANEL	201I	-	2	201I	-	2	
3	-	201I	SMOKE DAMPERS	B	200	SMOKE DAMPERS	201I	-	4	201I	-	4	
5	-	201I	SMOKE DAMPERS	C	-	-	201I	-	6	201I	-	6	
7	-	201I	SPARE	A	-	-	201I	-	8	201I	-	8	
9	-	201I	SPARE	B	-	-	201I	-	10	201I	-	10	
11	-	201I	SPARE	C	-	-	201I	-	12	201I	-	12	
13	-	201I	SPARE	A	-	-	201I	-	14	201I	-	14	
15	-	201I	-	B	-	-	201I	-	16	201I	-	16	
17	-	201I	-	C	-	-	201I	-	18	201I	-	18	
19	-	201I	-	A	-	-	201I	-	20	201I	-	20	
21	-	201I	-	B	-	-	201I	-	22	201I	-	22	
23	-	201I	-	C	-	-	201I	-	24	201I	-	24	
25	-	201I	-	A	4,200	RP-LS-SEC	600	LSI	26	600	LSI	26	
27	-	201I	-	B	4,200	4W6 & 11T0G - 1 1/4"	I	-	28	I	-	28	
29	-	201I	-	C	4,200	I	I	-	30	I	-	30	
NOTES:				PH A	PH B	PH C	TOTAL CONNECTED LOAD				14.6 KVA		
1. PROVIDE INTEGRAL 160KA (PER PHASE) SURGE PROTECTION DEVICE.				5,000	4,600	4,400	TOTAL DEMAND LOAD				38.9 AMPS		
2. 1.5"= LSI ELECT. TRIP BREAKER.								TOTAL COMPUTED LOAD				14.6 KVA	
												38.9 AMPS	

PRICE UNDER
ALTERNATE #1

LIGHTING RELAY PANEL SCHEDULE - LRP-A										
MARK	DESCRIPTION	PANEL	CIRCUIT	AUTOMATIC CONTROL		OVERRIDE ON		OVERRIDE OFF		REMARKS
				ON	OFF	STATION	BUTTON	STATION	BUTTON	
R1	EXTERIOR POLE LIGHTING	LP-LSA	1	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		EMERGENCY
R2	EXTERIOR POLE LIGHTING	LP-LSA	2	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		EMERGENCY
R3	EXTERIOR LIGHTING	LP-LSA	3	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		EMERGENCY
R4	CORRIDOR S-131/SALLY PORT S-145 LIGHTING	LP-EA	1	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R5	CELL LIGHTING (RIGHT SIDE)	LP-EA	3	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R6	CELL LIGHTING (LEFT SIDE)	LP-EA	3	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R7	CORRIDOR H-1163 LIGHTING	LP-EA	4	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R8	REC YARD H-1175 LIGHTING	LP-EA	4	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R9	REC YARD H-1175 LIGHTING	LP-EA	4	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R10	CORRIDOR H-1163 OUTLETS (LEFT)	RP-EA	9	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R11	REC YARD H-1175 OUTLETS	RP-EA	9	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R12	CORRIDOR H-1163 OUTLETS (RIGHT)	RP-EA	10	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R13	REC YARD H-1175 OUTLETS	RP-EA	10	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R14	CORRIDOR S-131 OUTLETS	RP-EA	11	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R15	MENTAL HEALTH VESTIBULE OUTLETS	RP-EA	3	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R16	MENTAL HEALTH REC YARD OUTLETS	RP-EA	12	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R17	MENTAL HEALTH CELL LIGHTS (LEFT)	LP-EA	5	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R18	MENTAL HEALTH CELL LIGHTS (RIGHT)	LP-EA	5	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R19	MENTAL HEALTH VESTIBULE LIGHTS	LP-EA	6	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R20	MENTAL HEALTH REC YARD LIGHTS	LP-EA	6	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R21	ISOLATION CELL LIGHTS	LP-EA	38	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R22	ISOLATION CORRIDOR	LP-EA	38	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R23	EXTERIOR LIGHTING	LP-LSB	2	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R24	SPARE									
R25	SPARE									
R26	SPARE									
R27	SPARE									
R28	SPARE									
R29	SPARE									
R30	SPARE									

LIGHTING RELAY PANEL SCHEDULE - LRP-B										
MARK	DESCRIPTION	PANEL	CIRCUIT	AUTOMATIC CONTROL		OVERRIDE ON		OVERRIDE OFF		REMARKS
				ON	OFF	STATION	BUTTON	STATION	BUTTON	
R1	EXTERIOR LIGHTING	LP-LSB	1	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		EMERGENCY
R2	EXTERIOR LIGHTING	LP-LSB	2	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R3	REC YARD H-1206	LP-EB	4	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R4	CELL LIGHTING (UPPER LEVEL)	LP-EB	8	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R5	CELL LIGHTING (LOWER LEVEL)	LP-EB	8	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R6	CELL LIGHTING (UPPER LEVEL)	LP-EB	9	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R7	CELL LIGHTING (LOWER LEVEL)	LP-EB	9	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R8	CELL LIGHTING (UPPER LEVEL)	LP-EB	10	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R9	CELL LIGHTING (LOWER LEVEL)	LP-EB	10	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R10	CELL LIGHTING (UPPER LEVEL)	LP-EB	11	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R11	CELL LIGHTING (LOWER LEVEL)	LP-EB	11	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R12	CELL LIGHTING (UPPER LEVEL)	LP-EB	12	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R13	CELL LIGHTING (LOWER LEVEL)	LP-EB	12	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R14	CELL LIGHTING (UPPER LEVEL)	LP-EB	13	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R15	CELL LIGHTING (LOWER LEVEL)	LP-EB	13	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R16	CELL LIGHTING (UPPER LEVEL)	LP-EB	14	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R17	CELL LIGHTING (LOWER LEVEL)	LP-EB	14	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R18	CELL LIGHTING (UPPER LEVEL)	LP-EB	15	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R19	CELL LIGHTING (LOWER LEVEL)	LP-EB	15	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R20	DAYROOM LIGHTING (H-1224)	LP-EB	16	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R21	DAYROOM LIGHTING (H-1232)	LP-EB	17	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R22	DAYROOM LIGHTING (H-1242)	LP-EB	18	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R23	DAYROOM LIGHTING (H-1252)	LP-EB	19	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R24	DAYROOM LIGHTING (H-1262)	LP-EB	20	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R25	DAYROOM LIGHTING (H-1272)	LP-EB	21	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R26	DAYROOM LIGHTING (H-1282)	LP-EB	22	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R27	DAYROOM LIGHTING (H-1296)	LP-EB	23	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R28	CORRIDOR REC YARD H-1296 OUTLETS	RP-EB	18	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R29	DAYROOM H-1224 TV OUTLET	RP-EB	19	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R30	DAYROOM H-1224 CONVENIENCE OUTLETS	RP-EB	20	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R31	DAYROOM H-1232 CONVENIENCE OUTLETS	RP-EB	20	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R32	DAYROOM H-1232 TV OUTLET	RP-EB	21	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R33	DAYROOM H-1242 TV OUTLET	RP-EB	23	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R34	DAYROOM H-1242 CONVENIENCE OUTLETS	RP-EB	22	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R35	DAYROOM H-1252 CONVENIENCE OUTLETS	RP-EB	22	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R36	DAYROOM H-1252 TV OUTLET	RP-EB	24	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R37	DAYROOM H-1262 TV OUTLET	RP-EB	26	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R38	DAYROOM H-1262 CONVENIENCE OUTLETS	RP-EB	26	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R39	DAYROOM H-1272 CONVENIENCE OUTLETS	RP-EB	26	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R40	DAYROOM H-1272 TV OUTLET	RP-EB	27	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R41	DAYROOM H-1282 TV OUTLET	RP-EB	28	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R42	DAYROOM H-1286 TV OUTLET	RP-EB	29	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R43	DAYROOM H-1282 CONVENIENCE OUTLETS	RP-EB	30	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R44	DAYROOM H-1286 CONVENIENCE OUTLETS	RP-EB	30	OWNER	OWNER	BY SECURITY CONTRACTOR		BY SECURITY CONTRACTOR		
R45										
R46										
R47										
R48										
R49										
R50										

- NOTES:
1. PROVIDE BARRIER TO SEPARATE "EMERGENCY" CIRCUITS FROM "STANDBY" CIRCUITS.
 2. LIGHTING RELAY PANELS ARE FURNISHED BY SECURITY CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. ALL CONTROL CABLING IS INSTALLED BY SECURITY CONTRACTOR.
 3. ALL RELAYS THAT SERVE EMERGENCY CIRCUITS SHALL CLOSE UPON LOSS OF NORMAL POWER.

LIGHTING FIXTURE SCHEDULE									
MARK	MANUFACTURER	CATALOG NUMBER	VOLTAGE	WATTS	LAMPS LUMENS	TYPE	MOUNTING HEIGHT	MOUNTING TYPE	REMARKS
A2	LITHONIA COLUMBIA DAY-BRITE	2VRLT-G-L24-3000LM-KCWP-AP250FL- MOLT	120V277	26	2,900	LED	3500K	CEILING	
A7	KENALL	WCH-4-00-45L35K-DCC-DV- 2B-2	120V277	57	2,860	LED	3500K	8'-0" AFF.	OUTLET BOX
A7E	KENALL	WCH-4-00-45L35K-DCC-DV- 2B-2 EL	120V277	57	2,860	LED	3500K	8'-0" AFF.	OUTLET BOX EM
A10	LITHONIA COLUMBIA DAY-BRITE	2VRLT-G-L48-3000LM-KCWP-AP250FL- MOLT	120V277	22	2,451	LED	3500K	CEILING	RECESSED LAY-IN
A10E	LITHONIA COLUMBIA DAY-BRITE	2VRLT-G-L48-3000LM-KCWP-AP250FL- MOLT-PS1050	120V277	22	2,451	LED	3500K	CEILING	RECESSED LAY-IN EM
A12	LITHONIA COLUMBIA DAY-BRITE	2VRLT-G-L48-5000LM-KCWP-AP250FL- MOLT	120V277	39	4,321	LED	3500K	CEILING	RECESSED LAY-IN
A12E	LITHONIA COLUMBIA DAY-BRITE	2VRLT-G-L48-5000LM-KCWP-AP250FL- MOLT-PS1050	120V277	39	4,321	LED	3500K	CEILING	RECESSED LAY-IN EM
A14	LITHONIA COLUMBIA DAY-BRITE	2VRLT-G-L48-7000LM-KCWP-AP250FL- MOLT	120V277	59	6,350	LED	3500K	CEILING	RECESSED LAY-IN
A14E	LITHONIA COLUMBIA DAY-BRITE	2VRLT-G-L48-7000LM-KCWP-AP250FL- MOLT-PS1050	120V277	59	6,350	LED	3500K	CEILING	RECESSED LAY-IN EM
C3	SHAT-A-SHIELD LIGHTING INC. (CELL)	042-MR-35-CLY-M-P2-PC-TB-00 WITH NIGHT LIGHT SWITCHED SEPARATELY	120V277	42	4,400	LED	3500K	CEILING	OUTLET BOX
C9	SHAT-A-SHIELD LIGHTING INC. (SHOWER)	32-H20-40-CL-M-P2-PC-TB-00-00	120V277	32	2650	LED	4000K	CEILING	OUTLET BOX
D1	LITHONIA COLUMBIA DAY-BRITE	CLX-L48-4000LM-SEF-RDL-MOLT- THCLX	120V277	40	4,000	LED	3500K	13'-0" AFF. OR AS REQUIRED TO AVOID MECHANICALS	OUTLET BOX
D2	LITHONIA COLUMBIA DAY-BRITE	CLX-L24-2000LM-SEF-RDL-MOLT- THCLX	120V277	18	2,000	LED	3500K	LED ABOVE DOOR	OUTLET BOX
G1	LITHONIA COLUMBIA DAY-BRITE	CSWGL-LED-30C-1000-40K TAM	120V277	104	10,000	LED	4000K	16'-0" AFF.	OUTLET BOX FSA
H8	MARK ARCHITECTURAL LIGHTING	SALD-LCB-8FT-MSL-B-80CRI-35K- R00LM-80CRI-85K-R00LM-BW- MNI-MCT-MOLT-WHT-E10W-CP-2T	120V277	U-5 WFT D-6 WFT	U-600LFT D-600LFT	LED	3500K	10'-0" AFF.	PENDANT FSA
H8E	MARK ARCHITECTURAL LIGHTING	SALD-LCB-8FT-MSL-B-80CRI-35K- R00LM-80CRI-85K-R00LM-BW- MNI-MCT-MOLT-WHT-E10W-CP-2T	120V277	U-5 WFT D-6 WFT	U-600LFT D-600LFT	LED	3500K	10'-0" AFF.	PENDANT EM FSA
J1	LITHONIA	2VRLT-G-L24-7000LM-KCWP-AP250FL- MOLT-E21-35K	120V277	59	6,350	LED	3500K	CEILING	RECESSED LAY-IN
J1E	LITHONIA	2VRLT-G-L24-7000LM-KCWP-AP250FL- MOLT-E21-35K-PS1050	120V277	59	6,350	LED	3500K	CEILING	RECESSED LAY-IN EM14
J2	KENALL	RMCD-2-FLTR-4-6T135-DV-2B-1	120V277	67	6,200	LED	3500K	CEILING	RECESSED OVP-BOARD
N10	GOTHAM PRESCOLITE ALPHA-BET	EV06-3510-AR-VD-LSS-MOLT- E21-E1	120V277	10	1,000	LED	3500K	CEILING	RECESSED
N10E	GOTHAM PRESCOLITE ALPHA-BET	EV06-3510-AR-VD-LSS-MOLT- E21-E1	120V277	10	1,000	LED	3500K	CEILING	RECESSED EM
R4	KENALL	CC-4-5-NA-6T135K-1-DV-SWB-2- VL WET LOCATION	120V277	74	8,854	LED	3500K	12'-0" AFF.	OUTLET BOX EM WET LOCATION
R4E	KENALL	CC-4-5-NA-6T135K-1-DV-SWB-2- VL WET LOCATION	120V277	74	8,854	LED	3500K	12'-0" AFF.	OUTLET BOX EM WET LOCATION
S1	KENALL	SSD-4-11-NA-6T135K-DCC-NA-DV- 2B-2	120V277	74	8,927	LED	3500K	CEILING	SURFACE
S1E	KENALL	SSD-4-11-NA-6T135K-DCC-NA-DV- 2B-2 EL	120V277	74	8,927	LED	3500K	CEILING	SURFACE EM
S2	KENALL	SSD-2-11-NA-45L35K-DCC-NA-DV- 2B-2	120V277	46	5,096	LED	3500K	CEILING	SURFACE
S2E	KENALL	SSD-2-11-NA-45L35K-DCC-NA-DV- 2B-2 EL	120V277	46	5,096	LED	3500K	CEILING	SURFACE EM
S4	KENALL	SSD-4-11-NA-45L35K-DCC-NA-DV- 2B-2	120V277	46	5,590	LED	3500K	CEILING	SURFACE
Y4	LITHONIA COLUMBIA DAY-BRITE	RSX LED-P2-40K-R4-MOLT-SPA FURNISH WITH PHOTOCCELL	120V277	222W	30,579	LED	4000K	MOUNT ON 30" SQUARE POLE SEE DETAIL "E-11"	FSA
X1	KENALL	MMEX-1-0-T-2-EL GREEN LETTERS	120V277			FURNISHED BY MANUFACTURER		CEILING OR ABOVE DOOR	EMX-FSA
X3	LITHONIA	LHOMLED-G-MB-EL GREEN LETTERS	120V277			FURNISHED BY MANUFACTURER		CEILING OR ABOVE DOOR	EMX-FSA
X4	LITHONIA	LHOMLED-G-MB-EL GREEN LETTERS DOUBLE-SIDED	120V277			FURNISHED BY MANUFACTURER		CEILING OR ABOVE DOOR	EMX-FSA

- LIGHTING FIXTURE SCHEDULE GENERAL NOTES:
1. CONTRACTOR SHALL COORDINATE ALL FIXTURE MOUNTING PROVISIONS WITH THE ASSOCIATED CEILING TYPE(S) PRIOR TO ORDERING FIXTURES.
 2. ALL FIXTURES AND BALLAST/DRIVERS SHALL BE RATED FOR OPERATION IN AMBIENT TEMPERATURES UP TO 55 DEGREES CELSIUS.
 3. TO ENSURE PROPER COORDINATION AND LONG TERM SUPPORT FOR THE OWNER, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER'S REPRESENTATIVES AND DISTRIBUTORS LOCATED WITHIN 60 MILES OF THE PROJECT SITE. SUBMITTALS RECEIVED FROM OUTSIDE THE PROJECT AREA WILL BE REJECTED WITHOUT REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON-COMPLIANCE WITH THIS REQUIREMENT.

- LIGHTING FIXTURE SCHEDULE KEYED NOTES:
- EM EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 700 LUMENS.
 - EM14 EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 1400 LUMENS.
 - EMX EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 90 MINUTES OF OPERATION. PROVIDE FINISH AS SELECTED BY ARCHITECT.

- GENERAL ELECTRICAL NOTES
1. REMOVE ALL EXISTING ELECTRICAL EQUIPMENT AND WIRING MADE OBSOLETE BY THIS RENOVATION. COORDINATE WITH OWNER TO KEEP ANY AND/OR REUSE ANY REUSABLE COMPONENTS. DISPOSE OF ALL OTHER EQUIPMENT MADE OBSOLETE BY THIS RENOVATION.
 2. EXISTING PANEL DIRECTORY CARDS MODIFIED BY THIS RENOVATION SHALL BE RETYPED TO INDICATE CONNECTED CIRCUITS.
 3. THIS CONTRACTOR SHALL FURNISH ALL MATERIALS AND LABOR NECESSARY TO EXTEND CIRCUITS AND MAKE RECONNECTIONS TO ANY EXISTING CIRCUITS ON WHICH THE BRANCH CIRCUIT IS INTERRUPTED BY THIS ALTERATION. CARE SHALL BE TAKEN TO INSURE EXISTING PANEL AND FEEDER RATINGS ARE NOT EXCEEDED.
 4. CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ARCHITECT.
 5. THIS CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT FROM MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGHING IN CONDUIT OR ORDERING CIRCUIT PROTECTION DEVICES. CONTRACTOR SHALL ADJUST CIRCUIT SIZE, WIRE SIZE AND CIRCUIT PROTECTION SIZE ACCORDINGLY. IF REQUIREMENTS ARE LARGER THAN CALLED FOR ON ELECTRICAL PLANS, NOTIFY ARCHITECT IMMEDIATELY.
 6. ALL CONDUITS SHALL BE INSTALLED CONCEALED WHERE POSSIBLE. WHERE CONCEALED CONDUIT IS NOT POSSIBLE IN EXISTING BUILDING, ALL EXPOSED CONDUIT IN SECURED AREAS SHALL BE RIGID CONDUIT. ALL OUTLET BOXES SHALL BE SECURED WITH TAMPER-PROOF SCREWS.
 7. REFER TO SECURITY AND DETENTION DRAWINGS FOR ADDITIONAL SECURITY REQUIRED BY THE ELECTRICAL CONTRACTOR. INSTALL ALL CONDUIT, CABLE TRAYS, JUNCTION BOXES, ETC. AS DETAILED ON THE SECURITY AND DETENTION DRAWINGS.
 8. ELECTRICAL CONTRACTOR SHALL PROVIDE RIGID CONDUIT FOR PNEUMATIC TUBING FOR DOOR LOCKING SYSTEM AS SPECIFIED IN SECTION 11.19.43 - DOOR HARDWARE. COORDINATE WITH DETENTION EQUIPMENT CONTRACTOR (DEC) AND SECURITY/ELECTRONICS CONTRACTOR (SEC). ROUTING TO BE COORDINATED WITH GC AND DEC.



Project
**SHELBY COUNTY JAIL
EXPANSION**
380 MCDOW ROAD,
COLUMBIANA, ALABAMA 35051

Prepared For
SHELBY COUNTY, AL
200 WEST COLLEGE STREET
COLUMBIANA, ALABAMA 35051



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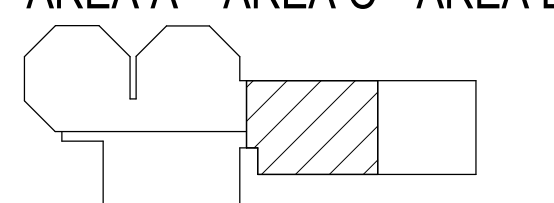
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Mechanical/Electrical/Plumbing
4500 Southlake Park Suite 200, Hoover, Alabama 35244
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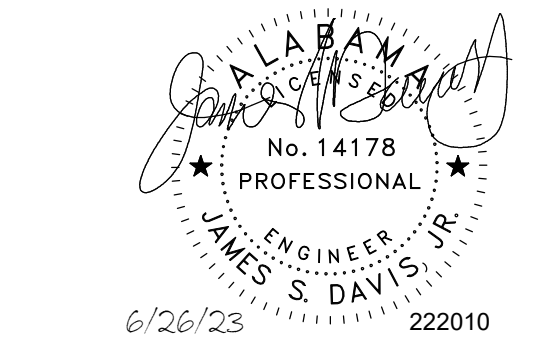
JACKSON RENFRO & ASSOCIATES
Electrical
141 Village Street Suite 1, Birmingham, Alabama 35242
Telephone: 205-866-1078

Key Plan
AREA A AREA C AREA D



AREA B

Professional Seals



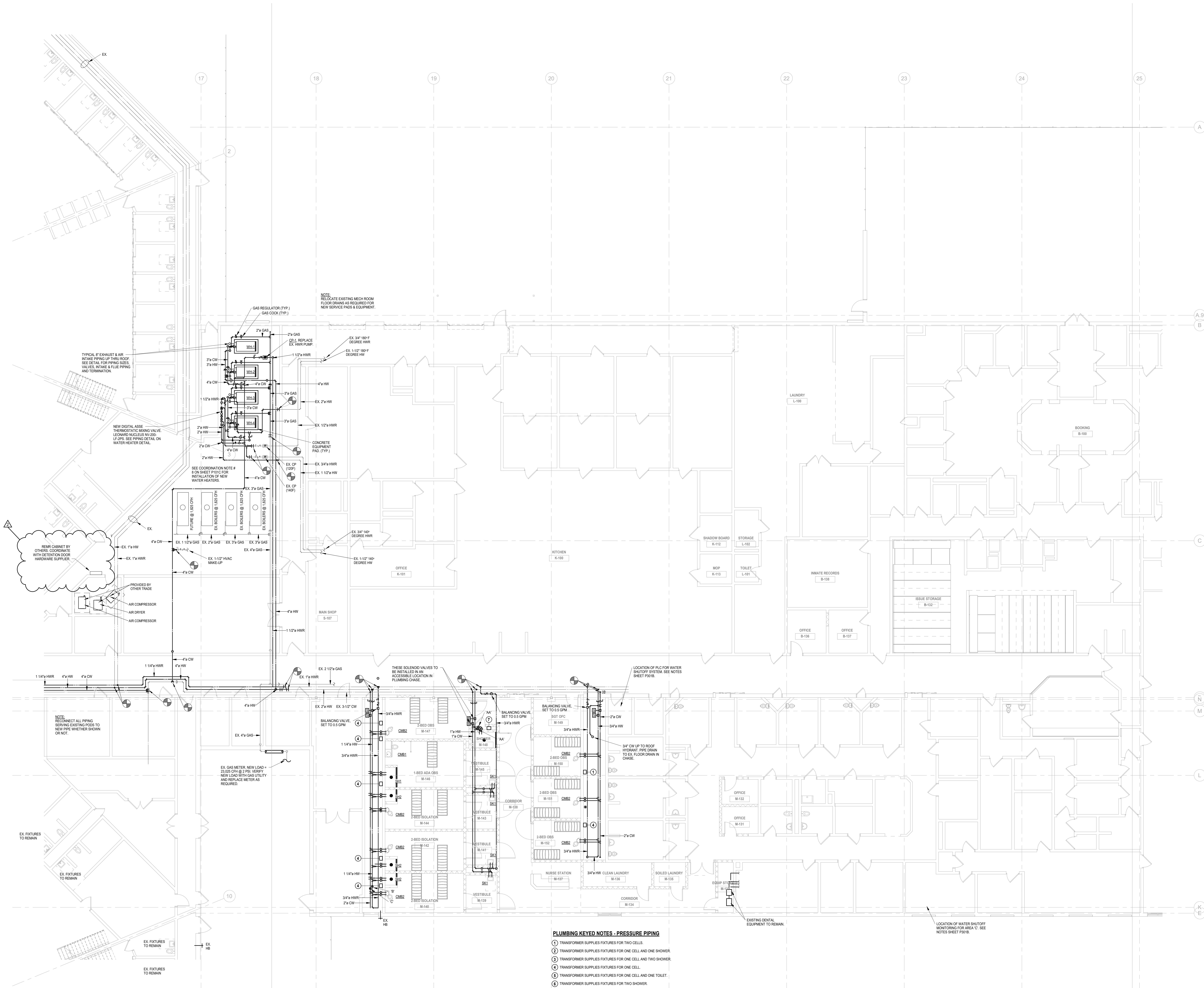
No.	Description	Date
1	Issued For Construction	02/25/23
2	ADDENDUM #5	8/30/23

Project No. 21.010220.00
Sheet Title

**GROUND LEVEL
PRESSURE PIPING
PLAN - AREA C**

Original drawing is 48 x 36. Do not scale contents of this drawing.
Sheet Number

P301C



PLUMBING KEYED NOTES - PRESSURE PIPING

- TRANSFORMER SUPPLIES FIXTURES FOR TWO CELLS.
- TRANSFORMER SUPPLIES FIXTURES FOR ONE CELL AND ONE SHOWER.
- TRANSFORMER SUPPLIES FIXTURES FOR ONE CELL AND TWO SHOWER.
- TRANSFORMER SUPPLIES FIXTURES FOR ONE CELL.
- TRANSFORMER SUPPLIES FIXTURES FOR ONE CELL AND ONE TOILET.
- TRANSFORMER SUPPLIES FIXTURES FOR TWO SHOWER.
- TRANSFORMER SERVES FIXTURES FOR ONE SHOWER.
- FOR BASE BID ONLY, VALVE AND CAP HERE FOR FUTURE. ALL PIPING DOWNSTREAM OF VALVE IS FUTURE.
- FOR BASE BID ONLY, PROVIDE 3/4" BYPASS WITH CIRCUIT SETTER, CHECK VALVE AND BALL VALVE. SET CIRCUIT SETTER TO 5 GPM.

GROUND LEVEL - NON-PRESSURE
PIPING PLAN - AREA 'C'
1/8" = 1'-0"



EXHIBIT PB-03

Request for Information

Summary Log with Answers

Shelby County AL Jail Exp (21.01020.00)

Request for Information Summary Log with Answers

Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-001	Returned	Construction Phasing	7/7/2023	Please confirm that the phasing will be all new construction (mental health, segregation, and possibly Pod C) must be completed and operational before any renovation work inside the existing buildings can occur.	7/12/2023	The new segregation wing will need to be operational prior to the commencement of the medical renovation scope. The other renovation scopes within the existing facility and jail pods could be completed during the new construction process. This could be based on the most efficient timing with other construction activities and coordination with the facility and its security staff. Please provide additional RFI questions about specific renovation areas if required.
P-002	Returned	MEP Phasing	7/7/2023	Obviously, any MEP work that needs to occur in the existing building in order for the new construction areas to be completed would have to occur during the 1st phase, correct?	7/12/2023	That would be correct.
P-003	Returned	Alternate #1 Structural Plan	7/7/2023	Please provide structural plans for the base bid only that does not include the attached alternate building.	7/14/2023	We do not see the need for a separate set of plans without the alternate. We can provide additional sections or clarification as needed.
P-004	Returned	Civil Site Wall Details	7/7/2023	C201 indicates some type of wall near the HVAC units to the SE. However, I couldn't find any description of the wall or details on the civil, structural or architectural plans. Please provide details.	7/14/2023	Top and bottom elevations of the wall are specified on the sheet. Wall design criteria is covered in spec section 02 8320 MSE Specifications.
P-005	Returned	Asbestos Abatement Requirements	7/7/2023	Is there an asbestos report for the areas to be selectively demolished? If not, will the Owner handle that as well as any required abatement by a change order?	7/13/2023	Based on the date the original building was constructed, we do not anticipate any abatement requirements for this project.
P-006	Returned	Mechanically Stabilized Wall	7/7/2023	Please clarify where the mechanically stabilized wall is to be located (spec 02 83 20).	7/14/2023	Proposed wall is located on sheet C201. Wall is to support the new mechanical equipment.

Shelby County AL Jail Exp (21.01020.00)

Request for Information Summary Log with Answers

Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-007	Returned	Concrete Supplier	7/7/2023	Confirm that Ready Mix USA is to be the concrete supplier per S001 note 7.9 and the concrete specs 03 3010.	7/14/2023	Specification section 033010 provides criteria for product requirements beyond the basis of design in section 2.5 A & B. All proposed equals should be submitted per Specification section 012500 substitution procedures using section 012501 request for substitution form.
P-008	Returned	Spec section 03360	7/7/2023	Spec 03 3010 references spec 03360 for "Protection of Concrete Slab". However, we don't see spec 03360. Please clarify.	7/14/2023	Protection of concrete slab is found in section 3.4 of spec 03 3010. Spec 03360 deals with dye stained concrete. We do not have dyed concrete on this project so that section does not apply.
P-009	Returned	Alternate #1	7/13/2023	Please confirm that Alternate #1 (if accepted) will be constructed in the first phase of construction with the Segregation & Mental Health Unit additions.	7/17/2023	Yes, the Alternate #1 scope will be part of the other new work. Final Construction Phasing is to be proposed by the Contractor.
P-010	Returned	Section 08 11 13 - Steel Doors & Frames	7/17/2023	Section 08 11 13 - Steel Doors and Frames references Section - 08 21 11 - Flush Wood Doors as related work. Please confirm that wood doors are not required for this project.	7/17/2023	Correct. There are no wood doors within this project.
P-011	Returned	Drawings A101A, A102A, A201A & A202A	7/17/2023	Drawings A101A, A102A, A201A, and A202A have a cut section bisecting New Pod C with an unassigned detail marker. Please provide this detail.	7/17/2023	An unassigned detail marker was provided in the plans in error. Refer to section 3/A351 for the standard section through Pod C Building.
P-012	Returned	Drawing A201C / Section 09 00 00-Material & Finish Codes	7/17/2023	Drawing A201C shows a 2x4 ACT pattern in the Laundry, Nurses Station, and Corridor M-138 areas. Specified ACT in 09 00 00 - Material and Finish Codes only includes 2x2 tiles. Please confirm if the specified product is to be provided in these areas, or provide additional product information	7/17/2023	The same product AC-01 shall be provided in the 2x4 size shown in plan
P013	Returned	Drawing 201B	7/13/2023	Drawing 201B shows a gyp ceiling material pattern in Corridor S-131 between column lines 60 and 45. Plan note indicates this area is exposed to structure. Please confirm which is correct.	7/18/2023	The hatch visible is the exposed concrete slab at the mechanical level, which is the exposed structure above. Note is correct.
P-014	Returned	Spec Section 013100	7/17/2023	Is Procore an approved CCA Software mentioned in spec. 013100	7/17/2023	Yes.

Shelby County AL Jail Exp (21.01020.00)

Request for Information Summary Log with Answers

Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-015	Returned	Asbestos Abatement	7/17/2023	Please advise if there will be any asbestos abatement. If so please provide the report for pricing.	7/17/2023	Based on the date the original building was constructed, we do not anticipate any abatement requirements for this project.
P-016	Returned	Fire Stopping	7/17/2023	Please confirm if fire stopping is to be sole-sourced by one contractor.	7/19/2023	This is up to the GC. Specification section 078400 - FIRESTOPPING allows the party trade or subcontractor per sub-section 1.2.C or allows the GC to employ a specialty contractor per sub-section 1.2.D. Refer to sub-section 1.7 for specialty contractor requirements if desired by the GC.
P-017	Returned	Fireproofing	7/17/2023	Please confirm that there is no fireproofing needed for the new structure.	7/18/2023	No spray fireproofing is required for the new building structure. Fireproofing is required at all rated conditions throughout the new building and renovation areas per spec sections 078400 - FIRESTOPPING.
P-018	Returned	General Commissioning Requirements	7/17/2023	There are multiple references to 01 9113 – General Commissioning Requirements, but this specification is not included in the project manual. Please provide this specification and clarify if cost of commissioning are to be carried by the owner or GC.	7/31/2023	<p>The County will engage a consultant for commissioning of the mechanical equipment. Test and balance requirements were covered in pretty good detail at the pre-bid meeting. It is to be assumed that some issues will have to be identified and corrected as part of the HVAC commissioning and test and balance process. Needed corrections that are identified will be addressed by CO utilizing the contingency allowance.</p> <p>DEC and SEC scope will be addressed by the design team</p> <p>All other commissioning scopes identified in the specifications to be covered by the contractor if not specifically identified by Owner.</p>
P-019	Returned	Spec Section 04 2000	7/17/2023	Spec. 04 2000 paragraph 2.2.A.4 mentions colored block. Where is this to be installed? And what color?	7/18/2023	No colored block is currently shown on the drawings.
P-020	Returned	Geotech Report	7/17/2023	Please provide a copy of the geotech report mentioned in note 6.1 S001.	7/18/2023	Report was provided to bidders in Addendum #2
P-021	Returned	S001 - Note 7.1	7/17/2023	Note 7.1 S001 calls for slab on grade to be 3000 psi, note 7.9 calls it to be 4000 psi. Please clarify which is correct.	7/19/2023	Provide 4,000 psi in all locations.

Shelby County AL Jail Exp (21.01020.00)

Request for Information Summary Log with Answers

Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-022	Returned	Deck Height- Building C	7/17/2023	What is the deck height of the existing building in Area C?	7/18/2023	Joist bearing height along Grid E is 17'-10" and at Grid D is 16'-8" in Area C Renovation area.
P-023	Returned	A601 - Detail 1 & 2	7/17/2023	Details 1&2/A601 both show a precast wainscot around the building, but the blow up detail for the termination with the metal panels calls out cast stone. We have specs for both. Please advise what the wainscot material is.	7/18/2023	The intent is to match the existing building materials for the new addition. The original construction drawings call out precast concrete for this material. Use spec section 034500 for the exterior building material. Color and profile to match existing.
P-024	Returned	Window Type E	7/17/2023	Window type E (detail 4/A905) appears to show a 6" curb at the base of the window, but nothing is shown on the structural drawings. Please confirm there if is to be a 6" concrete curb at the base of this opening and provide a detail.	7/19/2023	Structural will provide detail for concrete curb in forthcoming Addendum.
P-025	Returned	3/A602	7/17/2023	3/A602 shows a metal panel closure strip along the metal panel connections between new addition and existing building. Please advise what is to happen below the metal panels where the pre-cast ties into the existing building.	7/18/2023	Provide 4" end laps at bottom channel closure and corner closure with continuous caulking per basis of design manufacturer standard details. Reference spec section 074213.13 for additional information.
P-026	Void	3/A602	7/17/2023	3/A602 shows a metal panel closure strip along the metal panel connections between new addition and existing building. Please advise what is to happen below the metal panels where the pre-cast ties into the existing building.		
P-027	Returned	A911 & S402	7/17/2023	A911 and S402 show different methods of attachment for the lateral bracing of CMU walls. Please advise which is correct.	7/18/2023	Structural attachments to follow S402. A911 details are to be removed from the set in a forthcoming Addendum.
P-028	Returned	HOK Software	7/17/2023	Are there any costs associated for the GCs use of HOKS file transfer software?	7/17/2023	There is no cost to the GC for use of HOK's Trimble Project Sight. However sub contractors are not invited as the use is specifically a tracking and communication method for primarily RFI's and Submittals to avoid using solely email and keep an active log of open and closed items.

Shelby County AL Jail Exp (21.01020.00)

Request for Information Summary Log with Answers

Number	Status	Subject	Received On	Question	Date Resolved	Answer
p-029	Returned	Spec Section 015000	7/17/2023	Spec. 015000 mentions 10' fence with barbed wire, at the pre-bid meeting it was mentioned that standard 6' construction fencing was acceptable. Please confirm fencing requirements for securing the site.	7/19/2023	6' standard fencing is acceptable per pre-bid meeting for any fencing within the existing perimeter jail fence line. Any modifications to the existing jail perimeter fencing shall meet those requirements.
P-030	Returned	Gate for Construction Traffic	7/17/2023	At the pre-bid it was mentioned that the gate to be used for construction traffic may need to be enlarged. Is the county going to cover that cost?	7/18/2023	Any required modifications to the existing fence and gates are to be the responsibility of the contractor. Contractor to provide enough clearance / opening for all deliveries of materials and equipment that are appropriate to the contractor's needs. Any modifications such as a wider gate opening can be left in place as long as it will function / secure properly and does not necessarily have to be put back to its current condition. Any modifications to the gates shall match existing finishes and materials if it is to remain after construction.
P-031	Returned	7/A502	7/17/2023	7/A502 appears to show a continuous footing and CMU foundation wall under the detention doors that is not shown on the structurals. Please advise if this is required and provide structural details if they are.	7/18/2023	Location of underground footings and walls to be per Structural Drawings.
P-032	Returned	Window Frames-Guard Tower	7/17/2023	At the window frames surrounding the guard tower similar to H1522A detail 4/A901 appears to show a partial height CMU wall that is not called out on the structural please advise if this is required. Along with that detail 3/A351 & 6/A502 show a continuous footing and CMU foundation wall under these windows not shown on the structural plans. Please clarify CMU and foundation requirements in this area.	7/19/2023	A thickened slab and footing will be added at these locations. Detail and design to be sent with forthcoming Addendum.
P-033	Returned	Drawing AD101C	7/17/2023	Drawing AD101C has an arrow pointing to room M-107 that says "Remove and relocate existing dental equipment." Please clarify what this equipment is and where it is to be relocated.	7/18/2023	Existing Dental Equipment is to remain and be re-installed in M-133 Equipment Storage room added in renovation. Refer to P102C & P301C for plumbing callouts. Existing equipment includes a Vacstar Vacuum system and related compressor. Coordinate Temporary relocation location with Owner during construction.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-034	Returned	Existing High Density Storage System	7/17/2023	Please confirm that the existing high density mobile storage system in existing room M-107 is to be demolished and not salvaged for reuse. This equipment is not shown on the demolition drawings.	7/18/2023	Confirm this existing system is to be demolished. Coordinate any salvage needs with the Owner prior to demolition.
P-035	Returned	Existing High Density Storage System	7/17/2023	Please identify where the new high density mobile storage system is to be installed and provide a detailed drawing of the system including shelving profiles. Please confirm if it should have a floorless system or floored system with level able rails.	7/21/2023	Location is shown on A101C between grids C&D along grid 23. An exhibit of the proposed layout is provided in Addendum #3. Railing is to be surface mounted with low-profile rails.
P-036	Returned	Alternate Pricing	7/17/2023	Please confirm that alternate pricing is due at the same time as the base bid pricing.	7/17/2023	Yes, alternate pricing is due Thursday August 3rd at 2:00pm CST.
P-037	Returned	Section 03 35 43 – Polished Concrete Finishing	7/17/2023	Section 03 35 43 – Polished Concrete Finishing paragraph 3.A.1 references "Alternate No.002 Shot Blasting of Concrete Substrates." Please clarify if there is an Alternate 2 and exactly what it is.	7/24/2023	Shotblasting is not expected to be required. sub section to be removed in Addendum.
P-038	Void	Section 03 35 43 – Polished Concrete Finishing	7/17/2023	Section 03 35 43 – Polished Concrete Finishing paragraph 3.A.1 references "Alternate No.002 Shot Blasting of Concrete Substrates." Please clarify if there is an Alternate 2 and exactly what it is.		
P-039	Returned	Spec. Section 04 20 00	7/17/2023	Spec. 04 20 00 mentions split face block at exposed faces. Please confirm this only goes at Rec Yard 1304 & 1579.	7/21/2023	Split face block is not required. Removed from section in Addendum #3.
P-040	Returned	Spec. Section 02 83 20	7/17/2023	Where is the mechanically stabilized wall from spec 028320 intended to go?	7/18/2023	Proposed wall is located on sheet C201. Wall is to support the new mechanical equipment.
P-041	Returned	Sidewalks	7/17/2023	Please clarify if sidewalks are intended to be 4" or 6" thick.	7/20/2023	Sidewalks are to be 4" thick. Detail on Sheet C401 will be adjusted to reflect this in forthcoming Addendum.
P-042	Returned	Testing Services	7/17/2023	Please confirm per pre bid meeting that all testing services in spec 014529 are to be paid for by owner.	7/21/2023	Yes, Owner will pay for these testing services. Owner will also pay for testing for division 2-16 excluding utility testing. Contractor to comply with other provisions and requirements as indicated in the specifications.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-043	Returned	Spec Section 013200	7/17/2023	Spec 013200 calls for cost loading of CPM schedule. Please confirm if this is required as it is a premium.	7/18/2023	Cost loading of CPM Schedule is not required.
P-044	Returned	Spec Section 013233	7/17/2023	Spec 013233 calls for the engagement of a qualified photographer and videographer to take photos and videos monthly. Will photos and videos by onsite personnel be sufficient to meet this requirement?	7/19/2023	Onsite personnel documentation is acceptable as long as documentation is intentional and relevant. The contractor shall coordinate with the county and Sheriffs office for any stipulations or requirements when taking photos or videos prior to starting construction documentation.
P-045	Returned	Spec Section 001115	7/17/2023	Spec 001115 calls for triplicate copies of the bid form to be turned in. Is this required or will one be sufficient.	7/17/2023	Response per Trey: Bid must be in hard copy form not electronic. The bid bond and proposal form can be one original and two copies and does not have to be three originals
P-046	Returned	Spec Section 111900	7/17/2023	Spec. 111900 calls to list the detention contractor on the bid form. I did not see a space on the current form to put this information. Please advise if this is required.	7/18/2023	The General Contractor shall employ a single pre-approved Detention Equipment Contractor (DEC) having met all the requirements listed in this Section. The General Contractor shall list his Detention Equipment Contractor on the bid form. Contracting by the General Contractor for separate portions of work under Sections 11 19 00 through 11 19 99 is prohibited. Bid form to be updated in Addendum.
P-047	Returned	Staffing	7/17/2023	Are there minimum staffing requirements for this project?	7/21/2023	Staffing is means and methods of the contractor, however based on the prequalification process, we would expect all staffing submitted under the prequalification process would be committed for the duration of the project.
P-048	Returned	RFI/Substitution Deadline	7/17/2023	When is the RFI/substitution deadline for this project	7/18/2023	July 14th COB was the deadline for both RFI's and substitutions. July 21st is the Cutoff Date for DEC qualifications. Contractor to complete the substitution form found in division 01 for review.
P-049	Returned	Prequalified Security Contractors	7/17/2023	Can you provide a list of prequalified security contractors?	7/18/2023	Approved integrators are Accurate Controls, CML Security and Securitas.
P-050	Returned	Spec. Section 015000	7/17/2023	Spec. 015000 paragraph 3.4.J references a div. 1 Construction Waste Management & Disposal spec. Please provide.	7/21/2023	Specification section added in Addendum

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-051	Returned	Spec. Section 03 30 10	7/17/2023	Section 03 30 10 paragraph 1.2.D&H reference section 03 360 - Dye Stained Colored Ground and Polished Cast-In-Place Concrete. Please confirm this should reference 03 35 43 – Polished Concrete Finishing.	7/21/2023	Confirmed. Please reference section 033543
P-052	Returned	Spec. Section 03 35 43	7/17/2023	Section 03 35 43 paragraph 3.A.4 calls for vapor emission testing at floors to receive polished concrete finishing. Subcontractor input indicates that this testing is not required for the penetrating floor treatments specified. Please confirm if this requirement can be waived.	7/21/2023	Vapor emission testing shall be provided as required by the manufacturer of the flooring or coatings to meet their minimum standards. Contractor is responsible for providing all testing required during the project.
P-053	Returned	Existing Medical Unit Spray Fireproofed	7/17/2023	Is the existing medical unit spray fireproofed? If so can an allowance be stated for all bidders to carry for patching of fireproofing.	7/19/2023	Yes, the existing deck and bar joists are spray fireproofed. See revised Bid form and Unit Price line item within forthcoming Addendum.
P-054	Returned	Sheet A905-Int. Hollow Metal Window	7/21/2023	On the interior hollow metal window elevations on sheet A905, W1 points to "Mental Health Control Room Floor Beyond". When you go to the mental health control room on the floor plans, there is no W1 shown. Please confirm the location of this type of window.	7/21/2023	This window was removed from the project and addressed in Addendum #3.
P-055	Returned	1/A702-Window Type	7/21/2023	Please confirm the window types W5 as shown on interior elevation 1/A702 for the segregation cell front wall pertains to both segregation front walls. The interior elevation notation on the floor plan only points to one side and the windows aren't shown on the floor plans.	7/21/2023	W-5 window is located on both sides of segregation above all cell doors as shown in this elevation. Floor plans don't show them due to where they are cut.
P-056	Returned	A101A - Control Room H -1302	7/21/2023	The control room H-1302 as shown on floor plan A101A (as part of base bid) has a reference to an enlarged plan 2/A404. When you go to 2/A404, this detail and others for the medical health wing are surrounded by the dashed line which indicates it is a part of Alternate #1. Please clarify this on the plans that it is a part of base bid.	7/21/2023	Correct. The Alternate #1 boundary on A404 should not include details 1, 2, 4 & 7 that are part of the base bid.









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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-057	Returned	Blinds & Roller Shades	7/21/2023	There is a spec section for blinds and roller shades, but we can't find where these are to be installed on the plans. Please confirm these are to be included and confirm locations.	7/21/2023	No blinds or roller shades are currently identified in the project. Removed in Addendum.
P-058	Returned	Hardware Sets - Door Schedule/Specs	7/21/2023	Some of the hardware sets listed on the door schedule do not coincide with the hardware sets listed in the spec. Hardware set 5.0 lists H1156 in the spec, but this opening is not on the door schedule. The door schedule has this set assigned to H1321. Please confirm this is correct.	7/21/2023	Correct. Door schedule hardware groups on sheets A901 and A904 are accurate and should be what is bid.
P-059	Returned	Hardware Set 1.0- Door Schedule/Specs	7/21/2023	Hardware set 1.0 has 5 openings to which it's assigned on the door schedule. The spec only lists S136B & S143A. Please advise.	7/21/2023	Correct. Door schedule hardware groups on sheets A901 and A904 are accurate and should be what is bid.
P-060	Returned	Signage in Section 101400	7/21/2023	Please confirm where the signage as outlined in 101400 is to be installed.	7/21/2023	This spec is to cover any code-required signage that might be required for the project. Currently, no locations are identified and will be coordinated with the AHJ prior to occupancy.
P-061	Returned	Visual Displays in Section 101000	7/21/2023	Please confirm where the visual display boards are to be installed per spec section 101000.	7/21/2023	Locations added to spec per Addendum #3
P-062	Returned	Telecommunications Legend	7/21/2023	Please provide a complete Telecommunications legend. Some Telecommunications outlets such as (1/TE) and (TELE) do not appear on the legend.	7/23/2023	The legend will be updated to reflect the 1/TE symbols and the TELE symbols will be revised. the 2/TE is a double RJ45 and the 1/TE is a single RJ45.
P-063	Returned	Equipment for Existing Security System	7/21/2023	Is there a vendor or integrator who owns the equipment for the existing security system? If so, can you please provide contact information?	7/21/2023	The existing system was provide by Willo Products Co. Inc., Drawings of the existing system will be made available to the successful bidder.
P-064	Returned	Equipment for Existing Harding PA/Intercom	7/21/2023	Is there a vendor or integrator who owns the equipment for the existing Harding PA/Intercom system? If yes, can you provide contact information?	7/21/2023	The equipment is owned by the County. No further information is available.
P-065	Returned	Existing Security & PA/Intercom Devices	7/21/2023	Please confirm all security and PA/Intercom devices shown in existing areas are existing to remain or existing to be turned over to the Owner and no new field devices are required.	7/21/2023	The existing intercom/paging system is to remain. Work in the alt bid housing area would require new work integrated with the existing system.



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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-066	 Returned	Finish Schedule	7/25/2023	The finish schedule does not match the reflected ceiling plans in several locations. Attached is a list of rooms that have discrepancies. One concern would be rooms that call for acoustical tile which are shown as exposed structure on the RCP (i.e. Storage S-133). Do we need to follow the finish schedule, or the reflected ceiling plans?	8/2/2023	Finish schedule updated in Addendum #5 to solve any discrepancies.
P-067	 Returned	Buy American Project	7/25/2023	Please confirm that this is not a Buy American project for electrical items (i.e. EMT conduit).	7/26/2023	Buy American is preferred but not required. This project is being funding with 100% local funds. -Trey Gauntt
P-068	 Returned	Stainless Steel Countertops	7/25/2023	Please confirm stainless steel countertops are at all Interview rooms/windows.	7/31/2023	Confirmed.
P-069	 Returned	Central Control A-100	7/25/2023	Please confirm Central Control A-100 is to receive new control furniture by others and will not include any casework/countertops.	7/27/2023	A-100 is to receive new console furniture. However it is not by others. The consoles are specified in section 280520 and shown on the large scale plans in the TY section of the drawings.
P-070	 Returned	Countertops-Officers Station of Control H-1510	7/25/2023	Please clarify the limits of cabinetry/countertops in the Officers Station of Control H-1510.	7/28/2023	Consistent with A-100, refer to previous RFI response
P-071	 Returned	Steel Rod Barriers at exterior windows	7/25/2023	Are the steel rod barriers at the exterior windows from A905 to fall under spec 11 19 90 for woven rod mesh? Or are these custom units to be built per the details on A905?	7/31/2023	Yes custom product
P-072	 Returned	Exposed Steel - Painted	7/25/2023	Please confirm all exposed steel is to be painted (i.e. steel rod barriers/perimeter angle at windows)	7/31/2023	Confirmed
P-073	 Returned	DET Subcontractor	7/25/2023	Related to RFI P-046, would you allow the DET subcontractor to be name within 24 hours of the bid opening?	7/26/2023	No. The Detention Equipment Contractor shall be identified in the bid documents submitted prior to the bid deadline.






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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-074	 Returned	Glazing -Exterior aluminum framed glazing elevations	7/25/2023	Please clarify glazing types for the exterior aluminum framed glazing elevations A-F and interior hollow metal window elevations W1-W5 from A905. Also please clarify glazing type on "commercial" door schedule for the HM doors/frames.	7/31/2023	All exterior glazing is to be Insulated Glass Assemblies per spec section 088000. Refer to security glazing section 111908 for the W-type windows. Type W1 removed in Addendum. Type W2 to be security type SG-01. Types W3 & W4 to be security glazing type SG-03. Type W5 to be security glazing type SG-06.
P-075	 Returned	Spec Section 111953 2.05	7/25/2023	Specification section 111953 2.05 indicates a requirement for Airteq pneumatic locks and locking devices, as well as the supporting air lines and associated fittings for each lock. Paragraph 2.05 E4 states that nylon tubing for the air-lines shall be run in conduits, raceways, or cable trays. This conduit requirement for the tubing does not appear to be addressed anywhere else in the bid documents to ensure that the conduit scope is picked up by the electrical contractor, for instance by the provision of a conduit riser appropriately sized. Depending on the local authority having jurisdiction, a conduit separate from the lock control wiring may be required as well. Can further clarification or direction be given for this item so that this scope is not missed on bid day?	7/31/2023	Pneumatic tubing is to be in separate conduit. A forthcoming addendum will identify this scope as by the electrical contractor.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-076	 Returned	Security Electronic Specifications	7/25/2023	<p>The security electronics specifications appear to be performance-based with no reference for any firm to submit paperwork or information to be prequalified to participate in this bid. An RFI was issued asking about prequalified Security Electronics Integrators and in addendum 3. A handful of firms were arbitrarily listed as approved. My firm and or firms are more than qualified to pursue this project.</p> <p>a. Please, issue an addendum approving Cornerstone Electronics for the project.</p> <p>b. Please, issue an addendum approving Com-Tec for the project.</p> <p>c. Please, put in writing why our firm was arbitrarily left off the list of approved firms</p> <p>d. Please, issue proper specifications outlining the submission guidelines for approval, and postpone the bid date giving firms an equal opportunity to submit this data.</p>	7/29/2023	See response to RFI P-108
P-077	 Returned	Demolition/Construction Waste Recycled	7/26/2023	Is the Owner requiring any of the demolition waste or construction waste to be recycled?		
P-078	 Returned	Unit Price #5	7/26/2023	Can unit price #5 be changed to a lump sum allowance? Sub-contractors are pushing back on providing a SF price as it can vary a great deal depending on location and what type of material is being sprayed.	8/2/2023	Provide cost per sf price based on quantity specified in bid form. If final quantities vary dramatically then the contractor shall notify the architect and owner prior to completion of work.
P-079	 Returned	CMU Walls Renovation Area	7/26/2023	Are any of the CMU walls at the renovation area load bearing?	7/28/2023	All new walls shown on S101C are non-loadbearing. The existing roof structure is supported by steel framing and the exterior tilt up wall panels.
P-080	 Returned	Specification 28 05 00 - Common Work Results for Electronic Safety and Security MU Walls Renovation Area	7/26/2023	Specification 28 05 00 - Common Work Results for Electronic Safety and Security paragraph 1.1.F.3 lists Section 280526 – Grounding and Bonding for Electronic Safety and Security as being applicable to the security electronics work. This section was not included in the projection specifications. Please provide.	7/31/2023	The spec section will be added in Addendum.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-081	Returned	Fence for Exterior Holding Areas	7/26/2023	Is the fence for the exterior holding areas intended to fall under spec. 323113 – Chain Link Fences and Gates or 323113.53 Security Fencing. Both of these specs call out a 9 ga chain link fabric, but detail 3/AS102 calls out 6 ga. The fence height in this detail compared to the specs differ as well. Please clarify fencing requirements for the exterior holding areas.	7/31/2023	Provide exterior holding areas per security fencing section 323113.53. 9 ga fabric is acceptable as called out in the specs.
P-082	Returned	Exterior Storefront Type D Windows	7/26/2023	Please confirm that exterior storefront type "D" is not included in the project. There are no drawing sheets that reflect this window type.	7/31/2023	Window type D is above door H1304A into Rec Yard H-1304. Window shown in section 3/A501.
P-083	Returned	Drawing TY001 General Note 1	7/26/2023	Drawing TY001 General Note 1 says that "... Project further includes the replacement of existing security controls throughout the entire facility as described in these documents." Please clarify the extent of the existing PLC and touchscreen controls. Are these systems to be replaced or maintained?	7/29/2023	The Division 28 specifications and the TY series drawings in their entirety describe the scope and extent of the work.
P-084	Returned	TY Drawings	7/26/2023	Please confirm that the extent of the removal and replacement of existing CCTV cameras is only what is currently indicated on the TY drawings	7/29/2023	Some cameras are to be removed and replaced, some just removed. Refer to the TY drawings showing the cameras and the key notes describing the disposition of each device.
P-085	Returned	Cameras on TY Drawings	7/26/2023	Are there any cameras indicated on the TY drawings in the existing facility that are new cameras that would require new conduit?	7/31/2023	See response to P-127
P-086	Returned	TY Drawings General Note 3	7/26/2023	TY drawings General Note 3 states that existing CAT 6 cabling will be sweep tested, and where the cabling is not CAT 6 or it fails the test it is to be replaced. Please provide an allowance for the cabling to be replaced, or confirm that Security Electronics Integrators should plan to replace all existing cabling.	7/31/2023	See response in P-128.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-087	Returned	Section 11 19 53 - Detention Door Hardware	7/26/2023	Section 11 19 53 - Detention Door Hardware lists pneumatic systems. Please confirm if a separate conduit system is required for the pneumatic system tubing. If required, the conduit to house the tubing for these systems is not referenced in the electrical specifications or detailed in the drawings. Please provide details, locations, and specifications for these conduits. If not available we recommend an allowance be stated for all bidders to carry.	7/31/2023	Pneumatic tubing is to be in separate conduit. A forthcoming addendum will identify this scope as by the electrical contractor. Suggest contacting lock supplier for additional information on system requirements.
P-088	Returned	Section 11 19 53 - Detention Door Hardware	7/26/2023	Section 11 19 53 - Detention Door Hardware paragraph 2.05.A says to refer to mechanical drawings for the locations of required equipment for the pneumatic systems. These locations could not be found in the mechanical drawings. Please confirm the equipment is to be located as shown on E201C.	7/28/2023	Equipment associated with the pneumatic systems is indicated on sheets E201C and P301C. Also note the equipment indicated on sheet P301A in room S-132.
P-089	Void	Section 11 19 53 - Detention Door Hardware- RMERS	7/26/2023	Section 11 19 53 - Detention Door Hardware paragraph 2.05.F.8 says to provide RMERS in the form of emergency release tanks and valve assembly in a lockable cabinet as directed by the Architect. Please verify the location of the REMR system.	7/31/2023	See response to P-131.
P-090	Returned	Drawing TY101C General Note 1	7/27/2023	Drawing TY101C General Note 1 says that all work shown on the sheet is associated with the alternate. The new Mental Health Unit is shown on this sheet. Please confirm this note is incorrect and provide dashed lines indicating base bid vs alternate work	7/31/2023	Provide base bid work and alternate scopes as delineated in the rest of the drawings. Everything to the plan east of chase S-139 & Mechanical room access S-138 is base bid. Everything to plan west of those rooms is alternate. Follows same delineation as Architectural sheets.
P-091	Returned	Polished Concrete	7/27/2023	The room finish schedule in specification section 090000 reissued in addendum 3 lists polished concrete (CS-01) as the ceiling finish in the base bid Segregation Unit and alternate Pod C cells. IS this correct or are they to be simply exposed concrete.	7/31/2023	Segregation wing to be plank ceiling per plans. See revised finish schedule in Addendum 5.
P-092	Returned	Head detail 28/A902	7/27/2023	Head detail 28/A902 called out in the detention door schedule on A901 was not provided.	7/31/2023	Reference should be to detail 6/A902 for all typical CMU door head details.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-093	Returned	dayroom window unit elevations 4,5,&6/A901	7/27/2023	Please provide head, sill, and jamb details for the dayroom window unit elevations 4,5,&6/A901. Are details 20&26/A902 applicable for elevations 4&6/A901? Please expand 25/A902 to show the condition at the head of the dayroom window units	7/31/2023	Elevation 5 should follow the standard CMU detail for both head, sill & jamb detail 6/A902. Elevation 4 jamb details are per 20/A902, head & sill are per 6/A902. Elevation 6 outside jambs are per detail 20/A902 and all other head, jamb & sill details per 6/A902.
P-094	Returned	A905- glazing schedule for glass types	7/27/2023	Details on A905 say to refer to glazing schedule for glass types. Please provide this window schedule	7/31/2023	Refer to P-074 for glazing location clarification
P-095	Returned	Floor Finish required at mobile storage system	7/27/2023	What floor finish is required at the new high density mobile storage system?	7/31/2023	Existing concrete floor finish to remain. Patch and repair as required for new installation.
P-096	Returned	Elevations of Millwork Room H-1401	7/27/2023	Please provide elevations of the millwork in room H-1401	7/31/2023	Provide same casework as Nurse Office elevation 8/A403
P-097	Returned	ADA compliant gravel at gen pods	7/27/2023	Is the ADA compliant gravel intended to go at all gen pod locations are just the two the arrows point to on AS102.	7/31/2023	Gravel to be provided in region identified on sheet C102
P-098	Returned	Spec for HVAC Water Treatment	7/27/2023	Please provide a specification for the HVAC water treatment. If not open for bids, then also please provide contact information for current water treatment contractor for this facility	7/27/2023	Chemical treatment, cleaning and testing of the closed loop chilled and hot water systems is covered in the specifications Section 230500 - General Provisions -HVAC
P-099	Returned	Security Fencing Gate Hardware	7/27/2023	Please provide additional details for the security fencing gate hardware. AS102 states heavy duty hasp and padlock refer to specs, but the specs have no mention of gate hardware.	8/2/2023	Refer to spec section 323113.53 sub-section 2.5.H for gate hardware requirements. Provide heavy duty steel constructed hasp type lock at each gate welded to posts.
P-100	Returned	Details 3&5/A602 -Sheathing on the outside of the CMU walls	7/27/2023	Details 3&5/A602 appear to show sheathing on the outside of the CMU walls. Please confirm sheathing is only to be installed on stud walls	7/31/2023	Provide wall substrate as required for exterior wall system and application of air/weather barrier.
P-101	Returned	Finish for Basketball Court Striping	7/27/2023	Please clarify what finish is required for the basketball court striping shown in Rec Yard H-1579.	7/31/2023	Direct Epoxy Floor striping or equal material is acceptable and should be 2" wide. Striping is to be directly applied to the concrete.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-102	Returned	fire alarm and security upgrades in the existing facility	7/27/2023	How will the fire alarm and security upgrades in the existing facility be phased? Will we get multiple areas to work on at once or will it be room by room.	8/2/2023	Refer to the phasing plan on sheet TY001 for the security automation system proposed phasing plan. The Sheriff's office and county can commit to a "room by room" type approach with the ability to accommodate multiple rooms or areas at a time. With advanced coordination, the Sheriff's office can find a way to maximize the contractor's time while still accomplishing the jail's mission. Contractor to include proposed improvements phasing/schedule on their overall project schedule.
P-103	Returned	PCI certification for the Precast manufacturer	7/27/2023	Is the PCI certification for the Precast manufacturer mentioned in spec 034500 required?	7/31/2023	Yes
P-104	Returned	Who pays for plan review fees?	7/27/2023	Are plan review fees to be included by the contractor or owner/architect?	7/31/2023	Plan review fees have already been completed by the Owner.
P-105	Returned	CICT fee	7/27/2023	Do CICT fees apply to this project?	8/2/2023	The Construction Industry Craft Training (CICT) program fees do apply to this project and are collected within the County building permit within the \$7.50 per \$1000 of construction value. Furthermore, contractors will need to make sure the county building permit fees are included in their bid at the \$7.50 per \$1000 rate.
P-106	Returned	Impact Fees	7/27/2023	Who is responsible for impact fees?	7/28/2023	Per Spec Section 33 3300; 1.2; C; All fees and charges for sanitary sewerage service, taps, connections, permits, impact fees, etc., shall be paid by the Contractor from his/her contract amount.
P-107	Returned	Tap Fees	7/27/2023	Will there be any tap fees on this project?	7/28/2023	Water service will be tie to the existing building so we are not expecting any tap fees.
P-108	Returned	Cornerstone as approved Security Electronics Provider	7/27/2023	The RFI response in Addendum 3 did not include Cornerstone as an approved security electronics provider. Please confirm that Cornerstone and Com-Tec (subsidiary of Cornerstone) are approved security integrators for this project	7/27/2023	Tim Smith held discussions with Cornerstone and Trey Gauntt directly, resulting in allowing Com-Tec (subsidiary of Cornerstone) as an approved security integrators for this project.
P-109	Returned	Slab thickness in existing area	7/27/2023	What is the slab thickness in the existing area to be removed?	7/28/2023	Based on the existing drawings it is believed to be 4" thick.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-110	Returned	Thickness of the slab on deck at the mechanical level.	7/27/2023	Note 3 on S102A calls for a 4" non-composite slab on 3 1/2" normal weight concrete on 9/16" non-composite deck. Section 3/S303 only shows a 4" slab on deck. Please clarify the thickness of the slab on deck at the mechanical level.	7/28/2023	The slab is a total thickness of 4" as noted. 9/16" non-composite form deck with an additional 3 1/2" of concrete above the deck for 4" total thickness.
P-111	Returned	1-HR rated walls	7/27/2023	Sheet A011 points to the two exterior walls of the existing and new pods to provide a 1-HR rated walls for each of these. The demo plans do not show these walls to be demo'd. So, the cuts and plan to install new gyp on each side of the existing metal stud to achieve the 1-HR rating as shown on A913 does not apply to this instance since the exterior façade will not be demo'd. Please advise how this 1-HR rating should be achieved	7/31/2023	The condition of the existing metal studs is unknown and will need to be verified by the contractor prior to fabrication. The intent of the drawings is to provide a fire-rated wall per the UL listed and any repairs to the existing wall to achieve this is unknown. The exterior finish is removed to the extent needed for the new construction and repaired as shown in the drawings. The intent is to not have to get into demolishing the existing roofing and gutter conditions of the affected pods.
P-112	Returned	Finish Schedule	7/27/2023	The updated finish schedule lists Armstrong Optima 1410WH for AC01. The RCP's still graphically show 2x2 tiles at these locations. Please confirm we are to include 2x4 tiles.	7/31/2023	Yes the size within the legend refers to both sizes and to refer to the plans for locations.
P-113	Returned	12 gauge metal panels at the top of the control walls of Pod C	7/27/2023	Sections 4-5/A502 point to 12 gauge metal panels at the top of the control walls of Pod C. Please provide product information for these panels.	7/31/2023	These 12 gauge metal panels are solid and should be cut to fit the openings and provided Hollow metal framing. There is no specific product as we expect these to be custom cut from a sheet of 12 gauge metal.
P-114	Returned	Substitution Request - Detention Furniture	7/27/2023	Substitution request for Detention Furniture attached.	8/2/2023	Applicable items accepted. Beds and tables provided do not meet design proposed and are not acceptable. Grab bars are acceptable without drainage holes.
P-115	Returned	Substitution Request - Base Mounted Pumps & Air Separators	7/27/2023	Substitution request attached from Dowdy & Associates for Base Mounted Pumps & Air Separators	8/2/2023	Rejected based on form not being completed as required and not providing complete information for comparison by Design Team.
P-116	Returned	Substitution Request - Woven Rod Barriers	7/27/2023	Substitution Request attached for Woven Rod Barriers	8/2/2023	Accepted
P-117	Returned	Substitution Request -Mounted Pumps & Air Separators	7/27/2023	Substitution request from Williams & Associates for Armstrong Base Mounted Pumps & Air Separators	8/2/2023	Rejected based on form not being completed as required and not providing complete information for comparison by Design Team.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-118	Returned	Substitution Request -Detention Ceiling Panels	7/27/2023	Substitution request for Detention Ceiling Panel system	8/2/2023	Accepted.
P-119	Returned	Substitution Request -Detention Padded Surface Systems	7/27/2023	Substitution request for Detention Padded Surface Systems - Section 111940	8/2/2023	Rejected due to not meeting 5 year warranty and tensile strength requirements
P-120	Returned	Fireproofing material on existing building	7/27/2023	Please confirm what Fireproofing material was sprayed on the existing building and the needs to maintain the fire-rating. The code summary on Sheet A011 shows new construction as Type II-B, with 0 Hour rating on the structural frame, roof assembly, and floor assembly. What construction type is the existing facility?	7/31/2023	Original Building was constructed under the 1997 standard building code and the 1997 life safety code. Construction type listed in the drawings is Type 2.
P-121	Returned	Type H Louvers	7/27/2023	There are type H louvers called out on the building elevations. Section 2/A501 shows a louver and calls for it to a security louver with internal bars. The spec section for louvers and vents seems to describe standard louvers, and not necessarily security types. Please confirm if security louvers are required at the type H locations.	8/2/2023	Yes, these louvers are located on the secured rec yards and need to be security louvers. These are not mechanical louvers.
P-122	Returned	Louver specification	7/27/2023	There is a note in the louver specifications that states to provide an architectural louver at all locations whether it is a mechanical louver or not. Please advise how this is to work with the mechanical louvers.	8/2/2023	Louvers shall be as specified by mechanical for their systems. No Architectural louvers are required.
P-123	Returned	Conduit layout drawing TT602	7/27/2023	Please confirm the conduit layout drawing TT602 is for reference only and that these conduits are existing to remain (except for new Room S-117).	8/1/2023	Confirmed
P-124	Returned	Backbone Cabling between existing closets	7/27/2023	Please confirm the backbone cabling between the existing closets is existing to remain (except for new Room S-117).	8/1/2023	Confirmed
P-125	Returned	Security Electronics	7/27/2023	28 – Security Electronics - Please confirm that the extent of the removal and replacement of existing CCTV cameras is only what is currently indicated on the TY drawings.	7/29/2023	Refer to response to previous RFI P-084

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-126	 Returned	Security Electronics - Drawing TY001	7/27/2023	28 – Security Electronics - Drawing TY001 General Note 1 says that "... Project further includes the replacement of existing security controls throughout the entire facility as described in these documents. Please clarify the extent of the existing PLC and touchscreen controls. Are these systems to be replaced or maintained?	7/29/2023	See response to RFI P-083
P-127	 Returned	Security Electronics - Cameras	7/27/2023	28 – Security Electronics - Are there any cameras indicated on the TY drawings in the existing facility that are new cameras that would require conduit?	7/29/2023	Refer to Legend and General Notes on Sheet TY001
P-128	 Returned	Security Electronics - Cabling	7/27/2023	28 – Security Electronics - TY drawings General Note 3 states that existing CAT 6 cabling will be sweep tested, and where the cabling is not CAT 6 or it fails the test it is to be replaced. Please provide an allowance for the cabling to be replaced, or confirm that Security Electronics Integrators should plan to replace all existing cabling.	7/29/2023	Bidders are directed to proceed based on the scope of work described in the project documents including general note 3 on the floor plans. No allowance will be provided.
P-129	 Returned	Detention Door Hardware- Specs	7/27/2023	11- Detention - Section 11 19 53 - Detention Door Hardware lists pneumatic systems. Please confirm if a separate conduit system is required for the pneumatic system tubing. If required, the conduit to house the tubing for these systems is not referenced in the electrical specifications or detailed in the drawings. Given the proximity to the bid date, please provide allowances for the base bid and the alternate to ensure that all bidders are on a level playing field.	7/31/2023	Pneumatic tubing is to be in separate conduit. A forthcoming addendum will identify this scope as by the electrical contractor. Suggest contacting lock supplier for additional information on system requirements...
P-130	 Void	Detention Door Hardware- Required Equip for Pnuematic Systems	7/27/2023	11- Detention - Section 11 19 53 - Detention Door Hardware paragraph 2.05.A says to refer to mechanical drawings for the locations of required equipment for the pneumatic systems. These locations could not be found in the mechanical drawings. Please confirm the equipment is to be located as shown on E201C.	7/31/2023	Yes, see P-088 response.




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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-131	Returned	Detention Door Hardware- Location REMR System	7/27/2023	11 – Detention - Section 11 19 53 - Detention Door Hardware paragraph 2.05.F.8 says to provide RMERS in the form of emergency release tanks and valve assembly in a lockable cabinet as directed by the Architect. Please verify the location of the REMR system.	7/31/2023	The preferred location for the cabinet is in the existing large mechanical room, adjacent to the existing room housing the pneumatic system equipment identified in RFI P-088. A forthcoming addendum will clarify this location.
P-132	Returned	Detail of canopy holding pen enclosures	7/31/2023	Please provide a detail for the top portion (canopy) of the holding pen enclosures. Is an intermediate horizontal bracing required?	8/2/2023	Holding pen enclosures to follow fencing specifications for requirements and design. bracing shall be provided to meet the requirements of specifications.
P-133	Returned	Fence for Fabric Canopy	7/31/2023	For the fabric canopy – does the fence need to be installed on the inside of the enclosure or can it be installed on the exterior (i.e. Fence resting on top of the intermediate posts)	8/2/2023	Fabric should be installed on inmate side of enclosure.
P-134	Returned	Fence fabric for enclosures	7/31/2023	For the enclosures that have other enclosures adjacent to each other – which side does the fence fabric need to be installed? Spec requires "fabric to be placed on the inmate side of posts and gates" – for enclosures that "share" posts, this is impossible without installing (2) separate runs of fence	8/2/2023	The inside note refers to exterior locations. Shared walls will have one side of fabric installed.
P-135	Returned	AS102 - "existing perimeter fence to remain	7/31/2023	AS102 calls out "existing perimeter fence to remain" – with the spacing of the enclosures, that fence may need to be altered to install terminal posts. Is that allowable?	8/2/2023	Enclosures just need to tie into the existing fabric and should not necessarily need a new post at existing exterior fence. Refer to P-030 response for existing fence modifications.
P-136	Returned	Detail for the pedestrian gates	7/31/2023	Is there a detail for the pedestrian gates for each enclosure?	8/2/2023	Provide gate per specifications. Minimum 3'x7' opening per gate.
P-137	Returned	Grounding of fence for enclosures	7/31/2023	Is grounding of the fence required for the enclosures?	8/2/2023	Not required.
P-138	Returned	Installation of razor ribbon	7/31/2023	Does the razor ribbon get installed on the inmate side (inside) of the enclosure or on the outside (exterior) to avoid climbing on top of the enclosure?	8/2/2023	Razor ribbon is on the exterior side of the enclosure to avoid inmates from getting on top of enclosures from the outside.
P-139	Returned	Spec Section 03 00 00 Cast in Place Concrete	8/1/2023	Spec Section 03 00 00 Cast in Place Concrete lists P3 Industrial by Spray-lock. Is this product required? It doesn't seem that it would be compatible with polishing and grinding the slab.	8/2/2023	Grinding of the slab is not expected. Provide P3 product as specified or propose alternative product for review and approval of architect & owner.

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Number	Status	Subject	Received On	Question	Date Resolved	Answer
P-140	 Returned	Base Bid and Alternate	8/1/2023	Base Bid and Alternate - Due to the number of small rooms, masonry dowels, and protrusions it will be almost impossible to utilize a laser screed for finishing or achieve FF40/FL40. Will this be required?	8/2/2023	Provide the required floor finish. Means and methods to be coordinated by the contractor. If not feasible, provide a level of finish that is attainable for review by the Architect and Owner.
P-141	 Returned	Detail drawing TY401	8/1/2023	Please confirm that the only cable tray on this project is shown on detail drawing TY401.	8/1/2023	There is an existing cable tray
P-142	 Returned	Detail 5 on Drawing TY501	8/1/2023	Detail (5) on Drawing TY501 shows conduit stubbed to ceiling above and wiring through cable trays. There are no cable trays shown on the drawings, so are we to assume that these conduits will need to be separate home runs back to the Security/Telecom Closets?	8/1/2023	The cable tray is existing

FORM OF BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That the contractor, as Principal, and _____
(Name of Surety)

_____, as Surety, are held and firmly
bound unto _____
(Address)

the **SHELBY COUNTY COMMISSION** as Obligee in the full and just sum of five percent (5%) of amount bid (Maximum amount - \$10,000.00), lawful money of the United States, for the payment of which sum, well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal is herewith submitting its proposal for

PROJECT NAME:
SHELBY COUNTY, ALABAMA

The condition of this obligation is such that:

If the aforesaid Principal shall be awarded the contract and said Principal will, within the time required, enter into a formal contract and give a good and sufficient bond to secure the performance of the terms and conditions of the contract, then this obligation will be void; otherwise, the Principal and the Surety will pay unto the Obligee the difference in money between the amount of the contract as awarded and the amount of the proposal of the next lowest acceptable bidder, but not to exceed the total amount of the proposal guaranty. If no other bids are received, the full amount of the proposal guaranty shall be retained and/or recovered as liquidated damages for such default.

Witness our hands and seals this _____ day of _____,
20____.

PROJECT NAME: _____

SIGNATURE OF INDIVIDUAL BIDDER: (USE ONLY WHERE BIDDER IS AN INDIVIDUAL)

_____, Doing Business As, _____
(Name of Individual) (Business Name)

Business Mailing Address: _____

NAME OF PARTNERSHIP, JOINT VENTURE OR CORPORATION:

(Name of Partnership, Joint Venture or Corporation*) – (If Two Corporations**)

Business Mailing
Address: _____ BY: _____ (L.S.)

(Signature and Position or Title of
Officer Authorized to Sign Bids and
Contracts for the Firm)

Business Mailing
Address: _____ BY: _____ (L.S.)

(Signature and Position or Title of
Officer Authorized to Sign Bids and
Contracts for the Firm)

Business Mailing
Address: _____ BY: _____ (L.S.)

(Signature and Position or Title of
Officer Authorized to Sign Bids and
Contracts for the Firm)

* (Corporate Seal) Name of State under the laws of which the
Attest: Corporation was chartered:

(Secretary)

** (Corporate Seal) Name of State under the laws of which the
Attest: Corporation was chartered:

(Secretary)

(Name of Surety)

BY: _____
(Attorney-in-Fact)

PROPOSAL WILL NOT BE ACCEPTED UNLESS THIS FORM FOR BID BOND IS USED, AND BIDS WILL NOT BE CONSIDERED UNLESS THIS FORM IS SIGNED BY PRINCIPAL AND SURETY OR A CERTIFIED CHECK IN THE PROPER AMOUNT IS FURNISHED. CASHIER'S CHECK IS NOT ACCEPTABLE.

PLEASE LEAVE ATTACHED IN YOUR BIDDING FORM

**BOND
FOR PERFORMANCE OF THE WORK**

STATE OF ALABAMA
SHELBY COUNTY

KNOW ALL MEN BY THESE PRESENTS: That we, _____,
as Principal, _____ and
_____ and
_____ as Surety, are held and firmly
bound unto the County of Shelby, in the penal sum of
_____ and /100 Dollars (\$ _____), for
the payment of which sum, well and truly to be made, we hereby bind ourselves, our heirs,
executors, administrators, successors and assigns.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals, this _____
day of _____, 20____.

PROVIDED, HOWEVER, that the condition of this obligation is such that whereas the above bound
_____ have this day entered into a Contract with the said Shelby County
Commission for the completing the project described in the attached plans and specifications in
Shelby County, to-wit: known as Project Name: _____, located within the said County, a
copy of which said Contract is hereto attached.

NOW, THEREFORE, in the event that said _____, as such Contractor,
shall faithfully and promptly perform said Contract and all the conditions and requirements thereof,
then this obligation shall be null and void and to no effect, otherwise to remain and be in full force and
effect.

PROVIDED, FURTHER, THAT upon failure of the said _____, to
promptly and efficiently prosecute said work, in any respect, in accordance with the Contract, the
above bound _____

_____,
as Surety, shall take charge of said work and complete the Contract at their expense, pursuant to its
terms, receiving however, any balance of the funds in the hands of said County due under said
Contract. Said Surety may, if they so elect, by written direction given to the Shelby County
Commission authorize the Commission to advertise for bids to complete the said Contract at the
expense of said Surety, and such Surety hereby agree and bind themselves to pay the expense of
the completion of such work, less any funds in the hands of the County remaining due to the above
bound Contractor.

PROVIDED, further, that said Contractor and Surety hereby agree and bind themselves to the mode
of service described in Section 39-1-1, Code of Alabama 1975, as amended, and consent that such
service shall be the same as personal service on said Contractor or Surety.

Upon completion of said Contract pursuant to its terms, if any funds remain due on said
Contract, the same shall be paid to said Principal or Surety.

The decision of said County Engineer upon any question connected with the execution of
said Contract, or any failure or delay in the prosecution of the work by said Principal or Surety, shall
be final and conclusive.

The Proposal, Specifications, and the Contract hereinbefore referred to, and the Bond for Performance of the Work executed under the provisions of Section 39-1-1, Code of Alabama 1975, as amended, are made a part of this obligation and instrument is to be construed in connection therewith.

WITNESS our hands and seals this _____ day of _____ 20____.

_____ (L.S)	_____ (L.S.)
	Contractor

Surety

By _____

Address _____

**BOND FOR
PAYMENT OF
LABOR, MATERIAL, FEED-STUFFS OR SUPPLIES**

STATE OF ALABAMA
SHELBY COUNTY

KNOW ALL MEN BY THESE PRESENTS: That we _____, as
Principal,
and

_____ as Sureties, are held and firmly bound
unto the County of Shelby, in the penal sum of
_____ and /100 Dollars (\$ _____), for the payment
of which sum, well and truly to be made, we hereby bind ourselves, our heirs, executors,
administrators, successors and assigns.

IN WITNESS WHEREOF, we have hereunto set our hands and affixed our seals, this
_____ day of _____, 20____.

PROVIDED, HOWEVER, that the condition of this obligation is such that whereas the above
bound _____ have this day entered into a Contract with the said County
of Shelby for the for the completing the project described in the attached plans and specifications in
Shelby County, to-wit: known as Project Name: _____, a copy of which said Contact is
hereto attached.

NOW, THEREFORE, in the event that said _____ as such
Contractor shall promptly make payment to all persons supplying him or them with labor, material,
feed-stuffs, or supplies for or in the prosecution of the work provided for in said Contract, then this
obligation shall be null and void and of no effect, otherwise to remain and be in full force and effect.

PROVIDED, FURTHER, in the event that the said _____ as such
contractor shall fail to make prompt payment to all persons supplying him or them with labor,
materials, feed-stuffs, or supplies for or in the prosecution of the work provided in such contract, the
above bound _____ as
Surety shall be liable for the payment of such labor, materials, feed-stuffs or supplies and for the
payment of reasonable attorney's fees incurred by the successful claimants of plaintiffs in suits on
said bond as provided in Section 39-1-1, Code of Alabama 1975, as amended, are made a part of
this obligation, and this instrument is to be construed in connection therewith.

In the event said Principal shall fail or delay the prosecution and completion of said work and
said Surety shall also fail to act promptly as hereinbefore provided, then said County Engineer may
cause ten days notice of such failure to be given, either to said Principal or Surety, and at the
expiration of said ten days, if said Principal or Surety do not proceed promptly to execute said
contract, the Shelby County Commission shall have the authority to cause said work to be done, and
when the same is completed and the cost thereof estimated, the said principal and sureties shall and
hereby agree to pay any excess in the cost of said work above the agreed price to be paid under
said Contract.

Upon completion of said Contract pursuant to its terms, if any funds remain due on said
Contract, the same shall be paid to said Principal or Surety.

The said Principal and Surety further agree as part of this obligation to pay all such damages of any kind to person or property that may result from a failure in any respect to perform and complete said Contract.

The decision of said County Engineer upon any question connected with the execution of said Contract, or any failure or delay in the prosecution of the work by said Principal or Surety, shall be final and conclusive.

The Proposal, Specifications and the Contract hereinbefore referred to, and the Bond for Payment of Labor, Materials, Feed-stuffs or Supplies executed under the provisions of Section 39-1-1, Code of Alabama 1975, as amended, are made a part of this obligation, and this instrument is to be construed in connection therewith.

WITNESS our hands and seals this _____ day of _____ 20____.

_____(L.S)

_____(L.S.)
Contractor

Surety

By _____

Address _____