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NOTICE OF ADDENDUM

ADDENDUM NO. 1

CONTRACT NO. 6457, Project 53W1393
Madison Police Department Training Center – Phase 3

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

This addendum is issued to modify, explain or correct the original Drawings, Specifications, and Addenda marked *Madison Police Department Training Center Phase 3, City of Madison Project #53W1393, Contract #6457* dated *July 16, 2012* and is hereby made a part of the contract documents. This addendum consists of *(11) Eleven* page(s) total, *(7) Seven* page(s) of text and *(4) Four* sketches. Please attach this Addendum to the Drawings and Project Manual in your possession.

I. GENERAL CONTRACT CONDITIONS

- A. The accounting string on the proposal sheet (E4) should correctly read CB71-58401-810642-00-53W1393.
- B. This addendum does not extend the bid date. Bids are still due on August 10th, 2012.

II. ACCEPTABLE EQUIVALENTS

A. Section 08 11 16 ALUMINUM DOORS, FRAMES & WINDOWS

- 1. Equivalent products by Tubelite are acceptable.
- 2. Equivalent products by Manko are acceptable.

B. Section 09 90 00 PAINTS AND COATINGS

- 1. Equivalent products by Diamond Vogel are acceptable.

C. Section 26 50 00 LIGHTING

- 1. Equivalent products submitted by Enterprise Lighting, dated 7/30/2012, for types submitted are acceptable.

III. PROJECT MANUAL

A. Section 08 11 16 ALUMINUM DOORS, FRAMES & WINDOWS

1.2.07 Aluminum Finish

- 1. Item B. – Finish shall be dark bronze anodized.

B. Section 08 70 00 FINISH HARDWARE

1.2.07 Overhead Door Weatherseals

1. Item A. – Add Dock Leveler Seal Kit to Door 127E similar to Action Industries part number DSK10-71-A 2” Brush. Action Industries 12625 Berea Road, Cleveland, OH 44111, Phone: 216-252-7800, www.action-ind.com.

C. Section 09 30 00 HARD TILE

1.2.02 Hard Tile

1. Add Item J. – Water Feature Tile: Multi-size stone and glass tile mosaic, Distributor: Eleganza Tile, Style: Luxe, Color: Urban; Accent 2” x 2” glass tile, Manufacturer: Interstyle, Style: Glasstyle, Color: Jade #444.

D. Section 09 51 00 ACOUSTICAL CEILINGS

1.2.01 Acoustical Panels

1. Item A., 2. – Change USG Radar ClimaPlus #2220 to USG Radar #2120.

E. Section 09 72 16 VINYL WALL COVERING

1.2.01 Materials

1. Item A. – Change Manufacturer: Source One (distributed through D.L. Couch), 1. Style – Quick One Exclusive (54” value program), Type II, final style to be selected by Architect.

F. Section 10 22 26 OPERABLE PARTITIONS

1.2.02 Materials

1. Item A., 1. – Delete the reference to the number of equally sized panels. Panels width and number of panels shall be determined by the Operable Partition manufacturer.
2. Item A., 9. – Provide 3 eraser pockets with final locations shown on shop drawings.

G. Section 23 00 00 HEATING, VENTILATION, & AIR CONDITIONING

1.2.04 Variable Air Volume (VAV) Terminals

1. Enviro-Tech shall be base bid any other manufacturer shall be provided as a voluntary alternate.

2.2.06 Propeller Inline Exhaust Fans (EF-3)

1. Cook shall be base bid any other manufacturer shall be provided as a voluntary alternate.

3.2.11 Registers, Grilles and Diffusers

1. Price shall be base bid any other manufacturer shall be provided as a voluntary alternate.

H. Section 27 10 00 COMMUNICATIONS CABLE AND EQUIPMENT

1. Add the following to this specification section regarding coaxial cabling:

2.02 COAXIAL CABLE (VIDEO-RF)

- A. Install the coaxial cables including video trunk cables, connectors, splitters, and line amplifiers as contracted, and as shown on the Drawings.
- B. The contractor shall develop a design using passive and/or active components identified below and/or in the project drawings.
- C. Select hardware configure system to provide for a signal level of 0 – 10 dBmV, as measured at the TV Outlet over the frequency range 55 – 1000 MHz.

- D. Passive Distribution hardware shall support a video bandwidth of 1 GHz.
- E. The system shall not degrade the incoming signals by more than 3 dB in Carrier-to-Noise Ratio (CN) and 6 dB in Composite Triple Beat (CTB).

2.03 INTRA-BUILDING BACKBONE COAX CABLE

- A. Cable shall be RG-11; Quad Shield type cable.
- B. Cable shall be listed as being suitable for use in environment defined and shall meet a CMP/CATVP rating (or approved substitutes as defined by the NEC).
- C. Impedance - 75 Ohms

2.04 HORIZONTAL "TV" COAX

- A. Cable shall be RG-6 type; Quad-shield type cable.
- B. Cable shall be listed as being suitable for use in environment defined and shall meet a CMP/CATVP rating (or approved substitutes as defined by the NEC).
- C. Impedance - 75 Ohms

2.05 VIDEO DISTRIBUTION HARDWARE

- A. Coaxial Cable Splitters and Taps
 - 1. Provide all coaxial splitters and taps to provide adequate distribution of all horizontal coaxial cable.
 - 2. Distribution hardware shall support a video bandwidth of 1 GHz.
 - a. Splitter - Blonder-Tongue indoor "Digital Ready" (DGS) series or equivalent.
 - b. Tap - Blonder-Tongue indoor "Digital Ready" (DGT) series or equivalent.
- B. Video Distribution Line Amplifier
 - 1. Video distribution line amplifiers shall:
 - a. Support a video bandwidth of 750 MHz or higher.
 - b. Be a trunk/bridge type with appropriate gain.
 - c. Be equipped to include "plug-in" equalization variable slope and gain controls.
 - d. One-way operation is typical. Confirm with Agency if two-way operation is required to support sourcing of video content from locations served by the video distribution system.
 - e. Be configured for bi-directional / two-way operation. Amplifier configured for bi-directional operation shall incorporate built-in diplex filters for standard sub-channel two-way operation with active return.
 - 2. The amplifier shall be powered by via the incoming trunk line.

2.08 PATCH PANEL – COAX

- A. All terminated coaxial cables shall be mated to Female/Female "F" Series Couplings mounted on a panel.
- B. The panels shall incorporate a dielectric (e.g. polycarbonate) insert on which the couplings are mounted to provide electrical isolation of connection points.
- C. The panels shall incorporate cable management brackets at the rear of the panel on which to

secure the RG-6 cables.

PART 3 - EXECUTION

3.01 INSTALLATION REQUIREMENTS - CABLE

E. Cable Termination – Coax

1. Prepare cable for termination per manufacturer's installation procedures. Special care shall be taken to ensure the proper center conductor length as specified by the manufacturer.
2. Terminate cables in the specified connector type.
3. At the Horizontal Cross-connect, coil and secure terminated cable. Provide adequate slack for cables to reach distribution hardware. Coordinate with CATV/MATV contractor.
4. Size Patch Panels to accommodate 20% growth in the number of cables terminated.

3.03 TESTING AND ACCEPTANCE

E. Cable Testing – Coax

1. Test coaxial cables to:
 - a. Locate Breaks, Faults or flawed terminations.
 - b. Verify Length.
 - c. Verify Impedance (to within 5% of nominal value).
 - d. Verify Return Loss (5-MHz to 1-GHz).
 - e. Terminate cable - as required by individual tests - with its characteristic impedance.
2. Cable TV Distribution System Performance
 - a. Upon completing installation of the system, align and balance the system, and test the system utilizing an approved spectrum analyzer or signal level meter to verify performance. System performance shall be as defined in Part 2 of this Section.
 - b. Tests shall include:
 - i. Signal Level
 - ii. Carrier-to-Noise Ratio (CN)
 - iii. Composite Triple Beat (CTB)
 - c. Test no less than 25% of the installed outlets including the shortest and longest lines from each splitter and tap. (If the number of tests related to the shortest and longest lines equals or exceeds 25% of the installed outlets, no further testing is required.)
 - d. Perform measurements at the TV Outlet. It is not necessary that unused outlets be terminated in a terminating resistor impedance-matched to the cable.
 - e. Perform Signal Level and CN tests at 55 MHz, at one mid-band frequency, and at the highest frequency specified. Perform CTB test at one mid-band frequency only. Additional frequencies may be tested at contractor option.
 - f. When testing Carrier-to-Noise Ratio (CN) and Composite Triple Beat (CTB), measurement of incoming signal will be necessary to establish baseline

performance. Coordinate with agency to insure that this signal is present as required to perform the specified tests.

- g. In addition, perform a visual quality test using a television receiver to observe live video picture quality. No evidence of ghosting, noise, beat interference, or cross modulation (analog channels), or pixilation (digital channels) is acceptable.

IV. DRAWINGS

A. A100 OVERALL EXISTING AND DEMOLITION FLOOR PLAN

1. See attached sketch SKA01 for additional floor plan note.
2. Add General Note 1 that GC shall properly dispose of (2) previously removed 8' x 8' overhead doors including door panels, track, motors, springs, and push button controls.
3. Remove existing liner panel in Receiving and Supplies 127 from finished floor to 7'-4" AFF between doors 127D and 127E and North of 127E to Column line 9. Existing switch to be removed and new switch to be provided coordinate with lighting drawings. Existing garage door push button stations shall be removed and reinstalled after new wall is complete. Adjust overhead door motor mounting to accommodate new wall construction. Existing thermostat in Northeast corner shall be removed and reinstalled on new wall. Remove approximately 8' of existing forklift stop (4" x 4" steel angle bolted to slab).
4. At Partial Existing Floor Plan, omit vinyl wall base in Staging Area 137.
5. See attached sketch SKA02 for saw cut change in Computer Lab 116 to extend to the North wall in lieu of the South wall.

B. A101 PHASE 3 FIRST FLOOR PLAN

1. The Madison Police Department will be using the Training Center during the construction phase, and would like to separate the construction area where possible. The General Contractor shall make a provision to either provide a temporary construction wall of 2 x wood construction and minimum 10 mil reinforced Visqueen, or provide final metal stud framing and gypsum board. The gypsum board need not be finished until required as part of the project schedule, but will be required to be in new condition when finish work begins. The location of the wall shall be the North wall of Corridor 114, and the West wall of Corridor 119, terminating at the South wall of Scenario Training 129.
2. Change note at new East wall furring in Receiving and Supplies 127 from "FRP and plywood to 36" AFF" to 48" AFF. New interior furring in room 127 shall be installed inside the existing girt space instead of flush to the face of girt.

C. A102 MECHANICAL FLOOR PLAN , ROOM FINISH AND DOOR SCHEDULE

1. Change Western-most non-removable guardrail to 42" high 3 5/8" metal stud wall with 5/8" gypsum wallboard each side.

D. A201 PHASE 3 REFLECTED CEILING PLAN

1. Add (2) plywood backing locations (Keynote 02) to West wall of Auditorium 115 directly across from locations already shown along East wall.

E. S201 PHASE 3 MEZZANINE FRAMING PLAN, TIERS, AND PLATFORM FRAMING PLAN

1. See attached sketch SKS01 and SKS02 for revised framing plan.

F. M001 PHASE 3 HVAC DEMOLITION PLAN

1. Remove motor, not currently connected to power, and interior housing of existing 3' x 3' mechanical damper in Receiving and Supplies 127 above door 127C so it will not interfere with new interior wall construction. Louvers, bird screen, and frame shall remain so exterior facade remains intact.
2. See Section III. Drawings, A. A100 Overall Existing and Demolition Plan, Item 3. of this addendum for demolition note.

G. M201 PHASE 3 MECHANICAL FLOOR PLAN

1. AC-1 shall be mounted to a shelf on the mezzanine side of the wall, not overhanging the room, at the Western-most edge of the mezzanine. Furnish and install a 36"W x 24"D galvanized steel shelf to mount AC-1 on. Shelf shall be securely mounted to 42" high metal stud wall at Western edge of mezzanine at 30" above mezzanine floor. Provide vibration pads to mount AC-1 on.

H. E001 FIRST FLOOR ELECTRICAL DEMOLITION PLAN

1. Add to General Note 7 that existing light fixtures to be removed are to be properly disposed of, and that there are approximately 20 light fixtures from the previous phase, on the floor, that shall also be disposed of.
2. See Section III. Drawings, A. A100 Overall Existing and Demolition Plan, Item 3. and 5. of this addendum for demolition note.

I. E101 PHASE 3 FIRST FLOOR POWER AND SYSTEMS PLAN

1. Provide empty 4"x4" deep box with single gang plaster ring and one (1) 1" conduit to accessible ceiling at each monitor location in the kiosk in Lobby 113. Provide empty 4"x4" deep box with single gang plaster ring and one (1) 1" conduit to accessible ceiling in Planning Office 100. This is in addition to Special Purpose Connection 01 at this location. See Detail 09/A104 for kiosk construction information.
2. Provide one (1) single receptacle located near Special Purpose Connection 03 in Auditorium 115. Install receptacle in ceiling tile. Provide one (1) ¾" conduit from this location to AV closet at the southwest corner of the stage for low voltage cabling. Final location to be coordinated with owner's AV consultant during construction. Feed from Panel A2.
3. Provide one (1) single receptacle located on wall west of Door 115A in Auditorium 115. Provide one (1) ¾" conduit from this location to AV closet at the southwest corner of the stage for low voltage cabling. Final location to be coordinated with owner's AV consultant during construction. Feed from Panel A2.
4. Provide three (3) dedicated 1" conduits at the teacher's workstation in Computer Lab 116 to feed a "smart desk". Teacher's workstation is located at the south end of the desks in the center of the room. Two (2) of the conduits to terminate above accessible ceiling for use by AV contractor. The third conduit is for power to the workstation. Terminate conduits at teacher's workstation in floor box called out at Special Purpose Connection 04.
5. Provide one (1) duplex receptacle in cabinet above stacked microwaves in Break Area 118. Feed from Panel M. See Building Section 05/A701 for location.
6. Provide RG-6 coax cable from AV equipment room at southwest corner of stage in Auditorium 115 to coax patch panel located in Electrical Room 106.

7. Provide RG-11 coax cable from Mechanical 201 to coax patch panel in Electrical Room 106 for future use in existing office portion of building.
8. Clarification of Special Purpose Connection 06 – Provide RG-6 cabling to coax patch panel located in Electrical Room 106 which is in addition to duplex receptacle.
9. Provide Special Purpose Connection 06 on West and East walls of Auditorium 115, approximately 10'-0" north of Column Lines 4 and 5, (total 4 locations). Feed from Panel A1. Final location to be coordinated with owner's AV consultant during construction. RG-6 cabling at this location by AV consultant.

J. Sheet E201 PHASE 3 FIRST FLOOR LIGHTING PLAN

1. Keynote 04 shall indicate a 3-way switch for fixtures located in Mechanical 201 area. See Sheet A102 for mechanical level floor plan.
2. Provide and install four (4) Type B fixtures in Mechanical 201 area. Switched via three-way switch at the bottom of the stair and three-way switch at the top of the stair. Feed from same circuit as existing mechanical area light fixtures.
3. Provide single pole switch for existing fixtures located in existing mechanical area at top of stair adjacent to new three-way switch. Eliminate existing switch on first floor.
4. Add (2) Type O fixtures, one per East and West wall. Center between two fixtures just South of Operable Partition.

K. Sheet E401 ELECTRICAL SCHEDULES AND SYMBOL LEGEND

1. Fixture Schedule
 1. Add Type B fixture: 4' HEAVY DUTY INDUSTRIAL, SOLID TOP, TWO LAMPS, WIRE GUARD, CHAIN HANGER. LITHONIA EJS 228T5, METALUX ICF SS 228T5, DAYBRITE 5F 228, OR APPROVED EQUAL.
 2. Add Type ER fixture: TWO HEAD RECESSED EMERGENCY LIGHTING UNIT. 12 VOLT MAINTENANCE FREE NICAD BATTERY. PROVIDE HALOGEN SEALED BEAM PAR LAMPS WITH A 30Hx20V DISTRIBUTION AND 110 MINIMUM GROSS LUMEN OUTPUT. WHITE HOUSING. LITHONIA ELR 4 H1212, SURELITES GC15182279, OR APPROVED EQUAL.
 3. Type M fixture shall have 28W T5 lamps.

Please acknowledge this addendum on page E1 of the contract documents.

Electronic version of these documents can be found on the City of Madison web site at:

<http://www.cityofmadison.com/business/PW/contracts/openforBid.cfm>

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.



Robert F. Phillips, City Engineer

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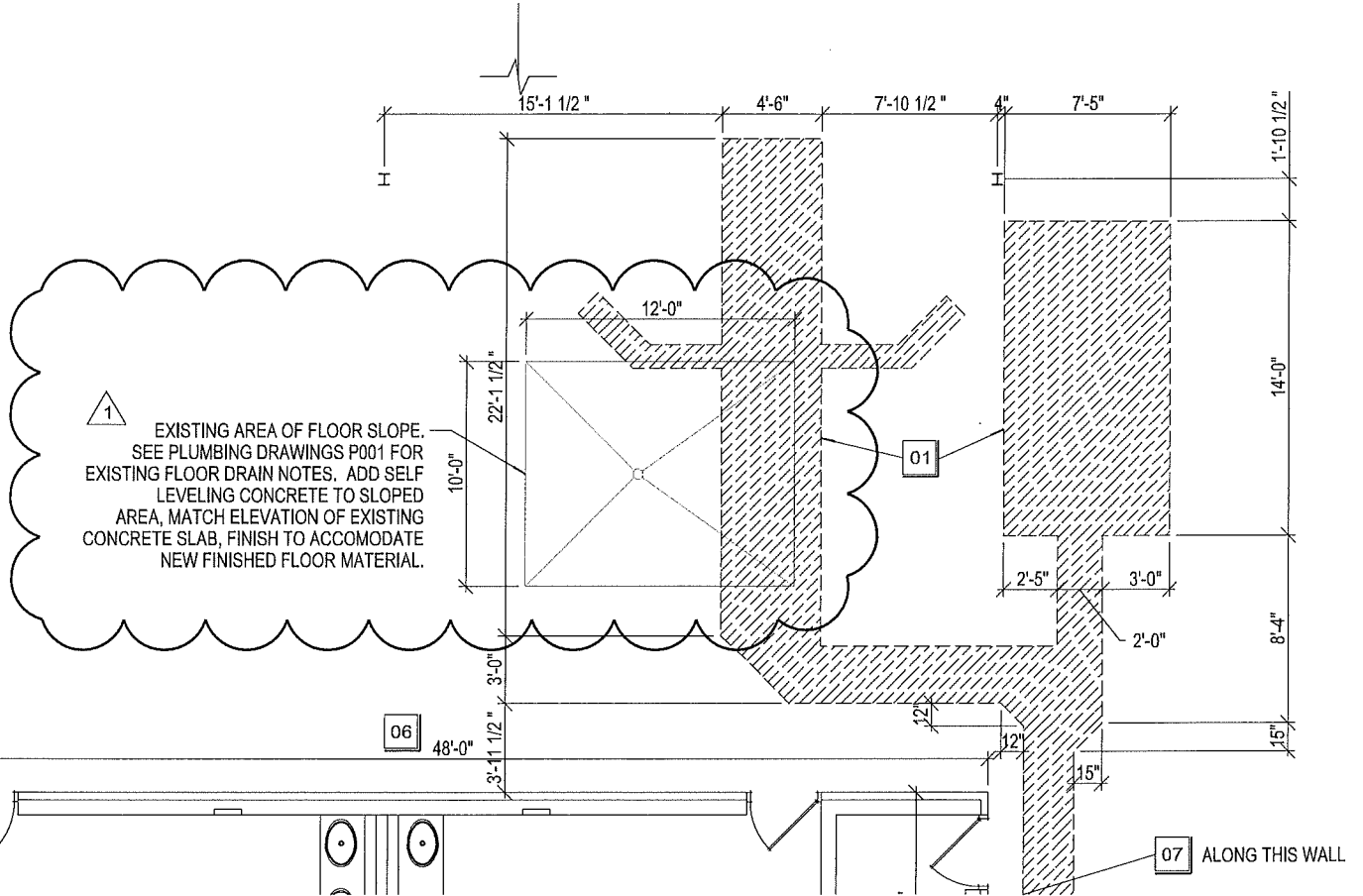
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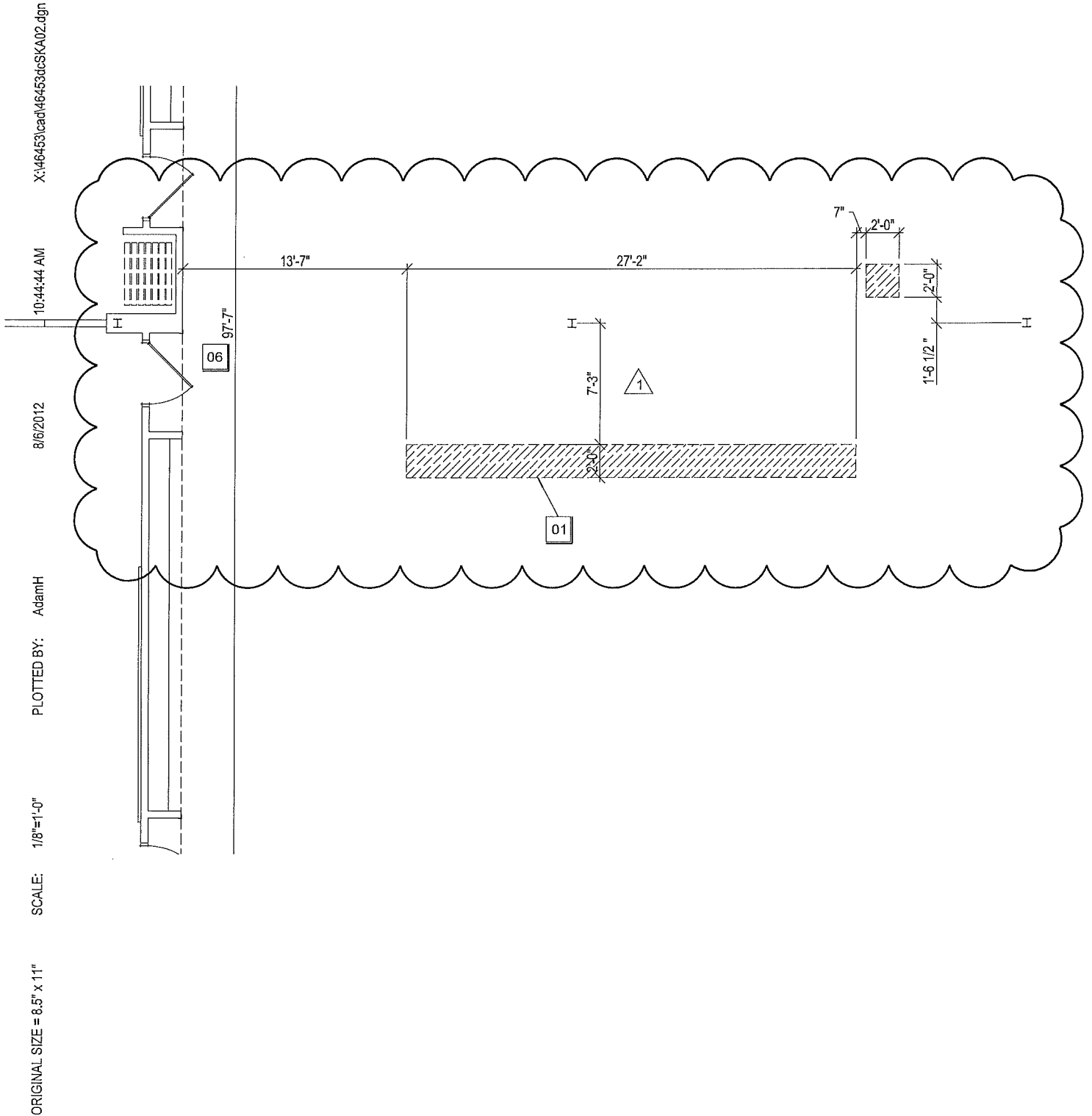
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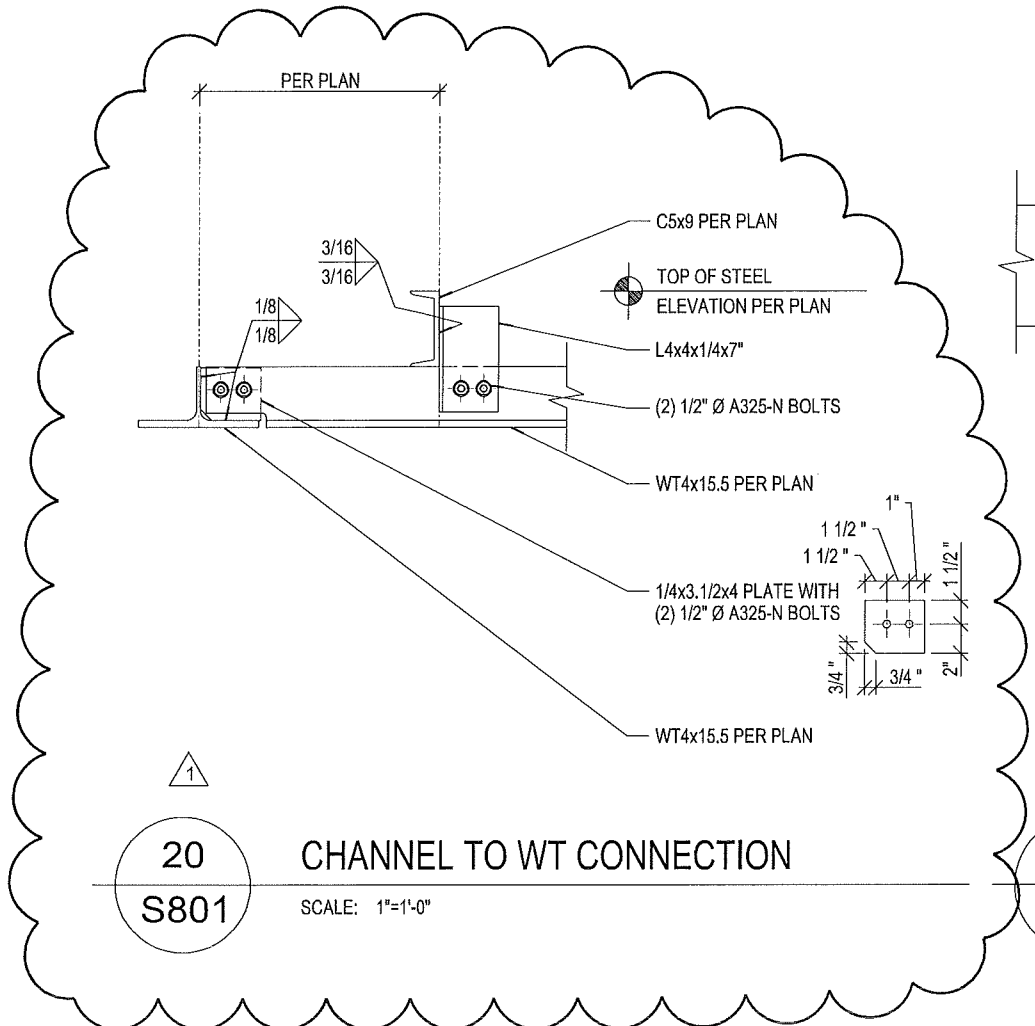
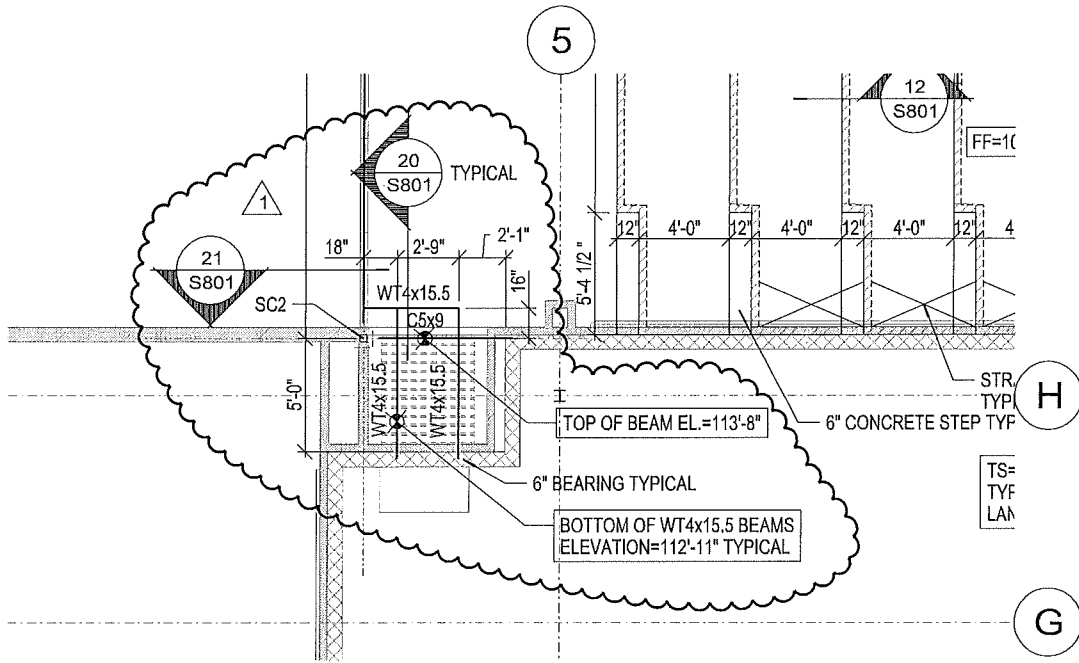
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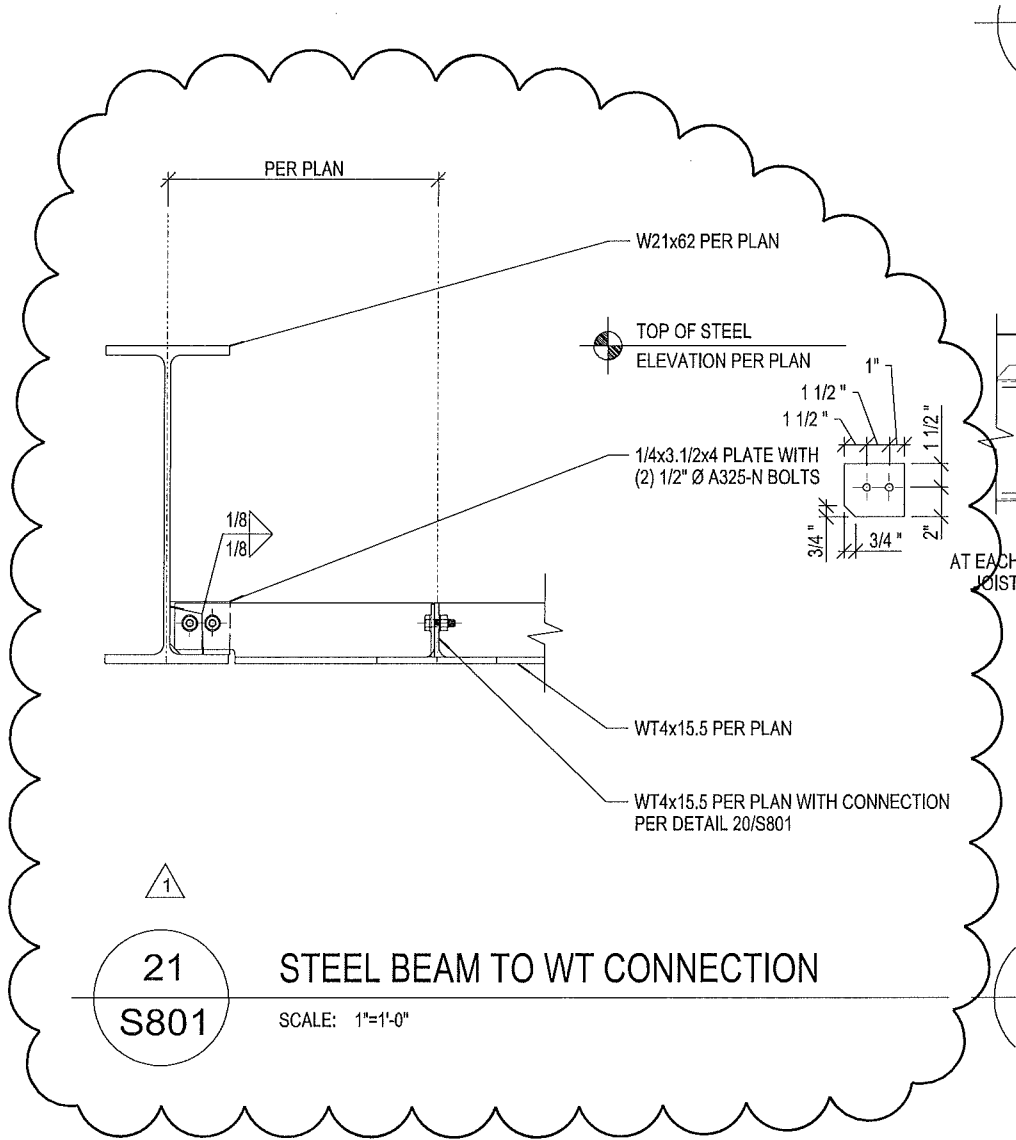
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