



ADDENDUM

Date Issued:	April 8, 2019
Project:	Intermountain Healthcare IMC- Cath Lab #6 Remodel 5121 South Cottonwood Street Murray, Utah 84107
Addendum Number:	1

The Contractors submitting proposals on the above-captioned project shall be governed by the following addendum, changes and explanations to the drawings and specifications and shall submit their bids in accordance therewith.

Item Number	General Items Description
1	As discussed at the Pre-bid meeting dated August 4, 2019: Owner has requested pricing for adjacent Cath Lab #7 & #8 as separate line item alternates when submitting bids for Cath Lab #6. Cath lab #7 & #8 have same scope of work as Cath lab #6 with exceptions that are described in this Addendum below. Owner intends to complete work for Cath lab #7 & 8 by the end of the year following completion of construction of Cath lab #6. Only one Cath lab shall be down for remodel at a time. This addendum and subsequent addenda issued for Cath Lab #6 shall be applicable to lab #7 & 8 as well.
2	<u>Bid Response Form</u> : This form has been revised to include Bid Alternate #1 & #2 as additive alternates for pricing Cath Lab #7 & 8. The narrative describing the work for pricing Cath lab #7 & #8 are indicated in this Addendum.
3	<u>Bid Alternate #1- Cath Lab #7</u> Price Cath Lab #7 (located next to Cath lab #6 on the west side) based on the drawings issued for Cath Lab #6 (same scope of work) with exceptions as described below and in the attached Electrical & Mechanical addendum. <ul style="list-style-type: none"> - Remodel Area of Cath lab #7 is about 750 sqft compared to 900 Sqft of Cath lab #6. - Note that Cath lab #6 & 7 share the same equipment room. - Lab #7 already has Electrical isolation panels and therefore not required to be added.
4	<u>Bid Alternate #2- Cath Lab #8</u> Price Cath Lab #8 (located next to Cath lab #7 on the west side) based on the drawings issued for Cath Lab #6 (same scope of work) with exceptions as described below and in the attached Electrical & Mechanical addendum. <ul style="list-style-type: none"> - Remodel Area of Cath lab #8 is about 750 sqft compared to 900 Sqft of Cath lab #6. - Plan for "one-less" Skytron ceiling mounted monitor boom at Cath lab #8 compared to Cath lab #6.
5	All permit fees shall be paid by the Owner. Do not include in the bid.
6	The building shall remain occupied during the construction and some work will need to be coordinated and scheduled with the Owner off-hours as required.
7	Coordinate all floor penetrations with Mechanical, Plumbing and Electrical drawings. Field verify existing conditions before proceeding with the work. Patch & repair all floor penetrations to match with adjacent existing after demolition.



Item Number	General Items Description
8	All fire sprinkler heads throughout the project shall be concealed quick action heads. Heads are required to be placed centered on the ceiling tiles where occurs. Field verify all existing conditions before proceeding with the work.
9	Contractor shall coordinate with the Owner to access the occupied space at the floor below to remove portions of ceiling as required per the electrical, mechanical and plumbing drawings for demolition and installation. Patch repair and re-install ceiling to match with adjacent existing at the lower level 1 after all work is completed.
10	Contractor shall re-install owner furnished equipment like glove dispenser, sharp disposal, etc. in the Cath Lab. Coordinate exact location with the Owner before proceeding with the work.
11	Provide in-wall backing for the new equipment in the computer room as required in the Siemens drawings. Remove and reinstall gypsum board as required on the computer room side. finish and paint to match with adjacent existing. See project manual for physicist's report for lead shielded walls. All work at shielded walls are required to be patched and repaired to original condition to maintain shielding.
12	See attached Mechanical & Plumbing Addendum #1 from VBFA.
13	See attached Electrical Addendum #1 from Spectrum Engineers.

Sheet Number	Drawings
Mechanical & Plumbing	
M101	See attached revised sheet with revisions shown clouded.
M111	See attached revised sheet with revisions shown clouded.
M211	See attached revised sheet with revisions shown clouded.
M501	See attached revised sheet with revisions shown clouded.
P101	See attached revised sheet with revisions shown clouded.
P111	See attached revised sheet with revisions shown clouded.
Electrical Drawings	
EP101	See attached revised sheet with revisions shown clouded.

Section	Specifications Manual
Architectural	
Section 012300	"Alternates"- Specifications section has been added as requested by the Owner. See attached for more information.

Attachments:

Revised- Bid Response Form, Narrative-Mechanical Addendum #1, Narrative-Electrical Addendum #1, Specifications Section 012300, Revised Sheet M101, M111, M211, M501, P101, P111 & EP101.

BID RESPONSE FORM

TO: Steve Brown
Construction Manager
Intermountain Healthcare

PROJECT: Intermountain Healthcare
IMC- Cath Lab #6 Remodel
5121 South Cottonwood Street
Murray, Utah 84107

NAME OF BIDDER: _____

Gentlemen:

The Undersigned, in compliance with your invitation for bids, having examined the Drawings and Specifications and related documents and the site of the proposed work and being familiar with all of the conditions surrounding the construction of the proposed project, including the availability of labor, hereby propose to furnish all labor, materials and supplies as required for the Project in accordance with the Contract Documents as specified and within the time set forth and at the price stated below. This price is to cover all expenses incurred in performing the work required under the Contract Documents of which this proposal is a part.

ADDENDA: I/We acknowledge receipt of the following addenda:
_____/_____/_____

BASE BID: I/We agree to perform all work shown on the Drawings and described in the Specifications and Contract Documents for the sum of:

_____ Dollars (\$ _____)
(In the case of discrepancy, written amount shall govern)

This bid shall remain good for 60 days after bid opening.

COMPLETION DATE: I/We guarantee that the Work will be Substantially Complete not later than _____ calendar days from 'Notice to proceed' should I/we be the successful bidder. See Intermountain General Conditions and notice to contractor for more information.

ALTERNATES:

Provide cost for the following ALTERNATES.
(Note: Additive alternates, based on the owners choice, shall be added to the base bid amount).

Additive Alternate No. 1: Provide cost to perform work at adjacent **Cath Lab #7**. See Addendum for scope of work as described.

_____ Dollars \$_____ (Add)
(In the case of discrepancy, written amount shall govern)

Additive Alternate No. 2: Provide cost to perform work at adjacent **Cath Lab #8**. See Addendum for scope of work as described.

_____ Dollars \$_____ (Add)
(In the case of discrepancy, written amount shall govern)

The bid shall remain good for 60 days after bid opening.

The undersigned Contractor's License Number for Utah is_____.

TYPE OF ORGANIZATION:

(Corporation, Partnership, Individual, etc.)

Type/Print Name and Title

SEAL (If a Corporation)

RESPECTFULLY SUBMITTED BY:

Type/Print Company Name

Authorized Signature

Address:

() ()
Telephone Number FAX Number

Utah Contractor License No.

Federal Tax ID No.

Date



ADDENDUM #1

DATE: April 8, 2019

PROJECT NO: 18583

PROJECT: IMC Bldg 5 L1 Cath Lab #6 Remodel

The following revision, additions, deletions, and/or items of clarification shall hereby be included as an integral part of the Contract Documents for the above-listed project and shall be fully binding. All other requirements shall remain in effect of the original plans and specification.

DIVISION – 22

DRAWINGS

SHEET - P101 – Plumbing Demolition Plan

1. Keyed note revised.

SHEET - P111 – Plumbing Plan

1. Keyed note revised.

DIVISION – 23

DRAWINGS

SHEET - M101 – Mechanical Demolition Plan

1. Keyed note revised.
2. Demolish return air ductwork and return air grille in computer room.

SHEET - M111 – Mechanical Plan

1. Changed VAV from size 12 to 16.
2. Install new supply and return air ductwork in computer room.
3. Rebalanced supply and return air in computer room.

SHEET - M211 – Mechanical Piping Plan

1. Changed VAV from size 12 to 16.

SHEET - M501 – Mechanical Schedules

1. Added grilles, registers and diffusers schedule.
2. Updated VAV Box schedule.

PRIOR APPROVALS

PRINCIPALS

Mechanical: Kim P. Harris, PE | Richard G. Reeder, PE, LEED AP BD+C | Byron R. Torgersen, PE | Jeffrey S. Watkins, PE | Donald K. Bradshaw, PE, CPD | Wade W. Bennion, PE, LEED AP | Steven T. Shepherd, PE, LEED AP | Benjamin L. Davis, PE | Ladd M. Birch, PE | Michael S. Mooney | Brad W. Rosenhan, PE | Ray D. Vernon, PE, LEED AP BD+C | Jed H. Lyman, PE | Scot E. Muir, PE, LEED AP BD+C | J. Howard Van Boerum, PE, FACEC (emeritus) | John D. Frank, PE (emeritus)

Electrical: Ryan C. Van Voast, PE

Civil and Fire Protection: David P. Baranowski, PE

The following manufacturers, trade names and products are allowed to bid on a name brand only basis with the provision that they completely satisfy all and every requirement of the drawings, specifications and all addenda shall conform to the design, quality and standards specified, established and required for the complete and satisfactory installation and performance of the building and all its respective parts.

<u>Item</u>	<u>Manufacturer</u>	<u>Comments</u>
VAV Boxes	CARNES	Approved



SPECTRUM
ENGINEERS

Addendum #1

Project: Intermountain Medical Center – Cath Lab #6
From: Jason Worthen
Project No: 20180785
Date: April 8, 2019

DISCIPLINES

Mechanical Engineering
Electrical Engineering
Technology Design
Acoustical Engineering
Lighting Design
Theatre Design
Fire Protection Engineering
Building Commissioning

CENTERS OF

ENGINEERING EXCELLENCE

Healthcare
Higher Education
K-12 Education
Government
Houses of Worship
Special Projects

CATH LAB #7 & #8

In addition to the work to be completed in Cath Lab #6, provide pricing for similar work to as separate line items for Cath Lab #7 and Cath Lab #8. These remodels will include the following:

1. Remove and reinstall lighting, smoke detectors and other ceiling mounted fixtures as required to accommodate ceiling modifications and installation of new equipment.
2. Install new X-Ray-In-Use sign.
3. Provide required conduits for Skytron lighting control.
4. Provide required power and data connections for new Cath Lab equipment.
5. Provide power connections to support any HVAC changes.
6. Replace all duplex receptacles in the procedure room with new four-plex receptacles.
7. Provide required power and data for Skytron booms.
8. Provide additional power and data receptacles as required for Cath Lab equipment in control room and equipment room.
9. Provide one new Isolation power panels in procedure room.
10. Addition of power and data receptacles to floor pedestals.

DRAWINGS

EP101 (See attached sheet)

1. Detail #1: Added conduit and data cable for video switch. (Keynote #12)
2. Detail #2: Revised lighting to match existing light locations and removed one can light.
3. Detail #3: Revised existing light locations and removed one can light.

SALT LAKE CITY

324 S. State Street
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Salt Lake City, UT 84111
phone: 801-328-5151
fax: 801-328-5155

PHOENIX

1501 W. Fountainhead Parkway
Suite 340
Tempe, AZ 85282
phone: 480-621-3444
fax: 480-621-3445

www.spectrum-engineers.com
800-678-7077

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.

- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

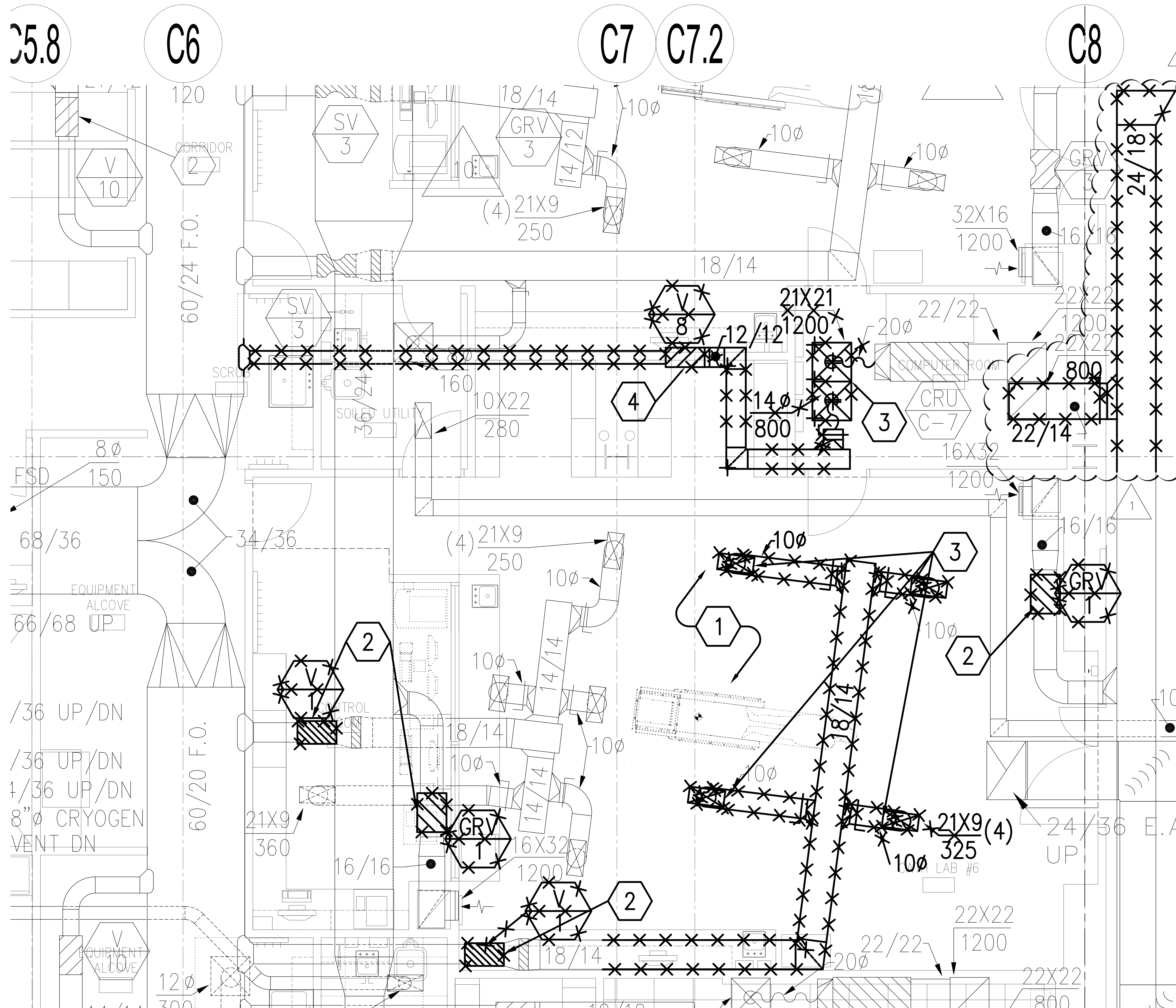
Alternate No. 1: Additive Alternate- Cath Lab #7

"Price Cath Lab #7 (located next to Cath lab #6 on the west side) based on the drawings issued for Cath Lab #6 (same scope of work) with exceptions as described in the Project Addendum and construction documents."

Alternate No. 2: Additive Alternate- Cath Lab #8

"Price Cath Lab #8 (located next to Cath lab #7 on the west side) based on the drawings issued for Cath Lab #6 (same scope of work) with exceptions as described in the Project Addendum and construction documents."

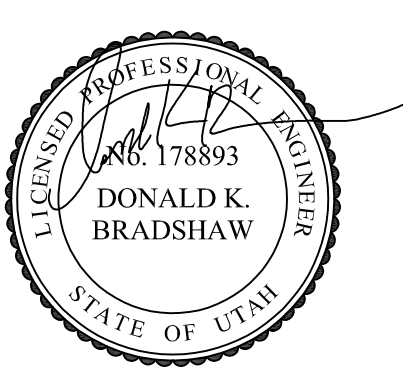
END OF SECTION 01 23 00



- # KEYED NOTES**
1. EXISTING SHOWN LIGHT TO REMAIN. ITEMS CROSSED OUT TO BE REMOVED. CAP ALL UNUSED DUCTWORK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
 2. DEMOLISH VAV BOX SHOWN CROSSED OUT. REMOVE AND REINSTALL COIL AS NECESSARY TO ACCOMMODATE NEW PHOENIX CONTROL VALVE INSTALLATION. FIELD VERIFY EXISTING CONDITIONS. THIS ACTION TO BE BID AS AN ADDITIVE ALTERNATE. OTHERWISE EXISTING VAV BOXES SHALL BE CLEANED AND REMAIN.
 3. REMOVE EXISTING DIFFUSERS. CLEAN. KEEP FOR REINSTALLATION IN NEW CEILING. TYPICAL.
 4. DEMOLISH VAV BOX AND COIL SHOWN CROSSED OUT. FIELD VERIFY EXISTING CONDITIONS.



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VBA Project Number: 18583

Intermountain Healthcare
IMC-Cath Lab 6 Remodel Project

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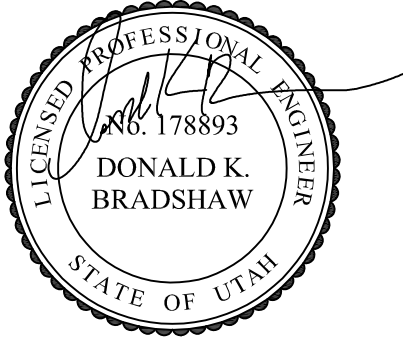
NJRA Project # 18226.00
Construction Documents Feb 28, 2019
4.8.19 Addendum #1

MECHANICAL DEMOLITION PLAN

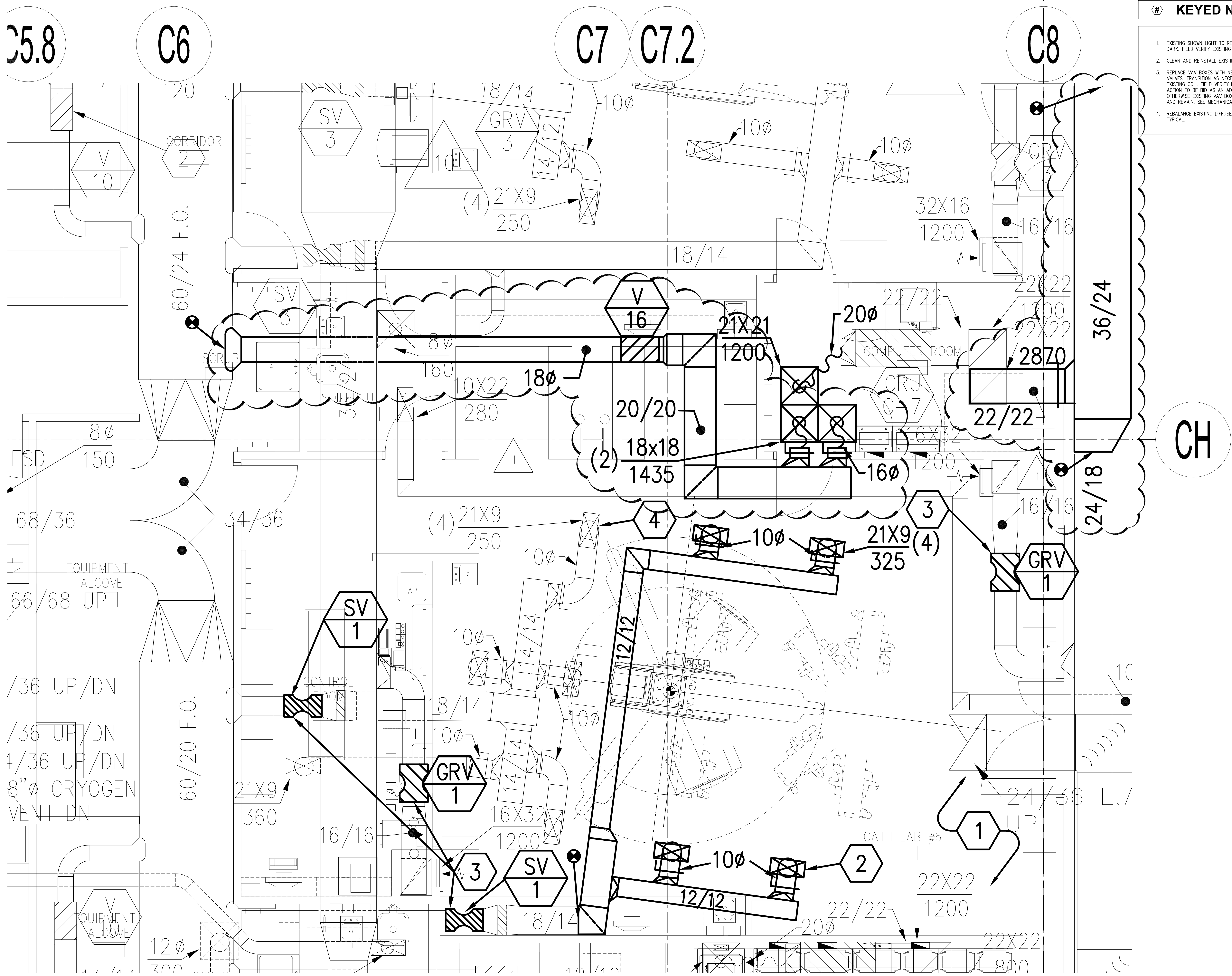
M101

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1 MECHANICAL DEMOLITION PLAN
SCALE: 1/2" = 1'-0"



- # KEYED NOTES**
1. EXISTING SHOWN LIGHT TO REMAIN. NEW WORK SHOWN DARK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
 2. CLEAN AND REINSTALL EXISTING DIFFUSERS. TYPICAL.
 3. REPLACE VAV BOXES WITH NEW PHOENIX CONTROL VALVES. TRANSITION AS NECESSARY TO CONNECT TO EXISTING COIL. FIELD VERIFY EXISTING CONDITIONS. THIS ACTION TO BE BID AS AN ADDITIVE ALTERNATE. OTHERWISE EXISTING VAV BOXES SHALL BE CLEANED AND REMAIN. SEE MECHANICAL SCHEDULES.
 4. REBALANCE EXISTING DIFFUSERS TO CFM SHOWN. TYPICAL.

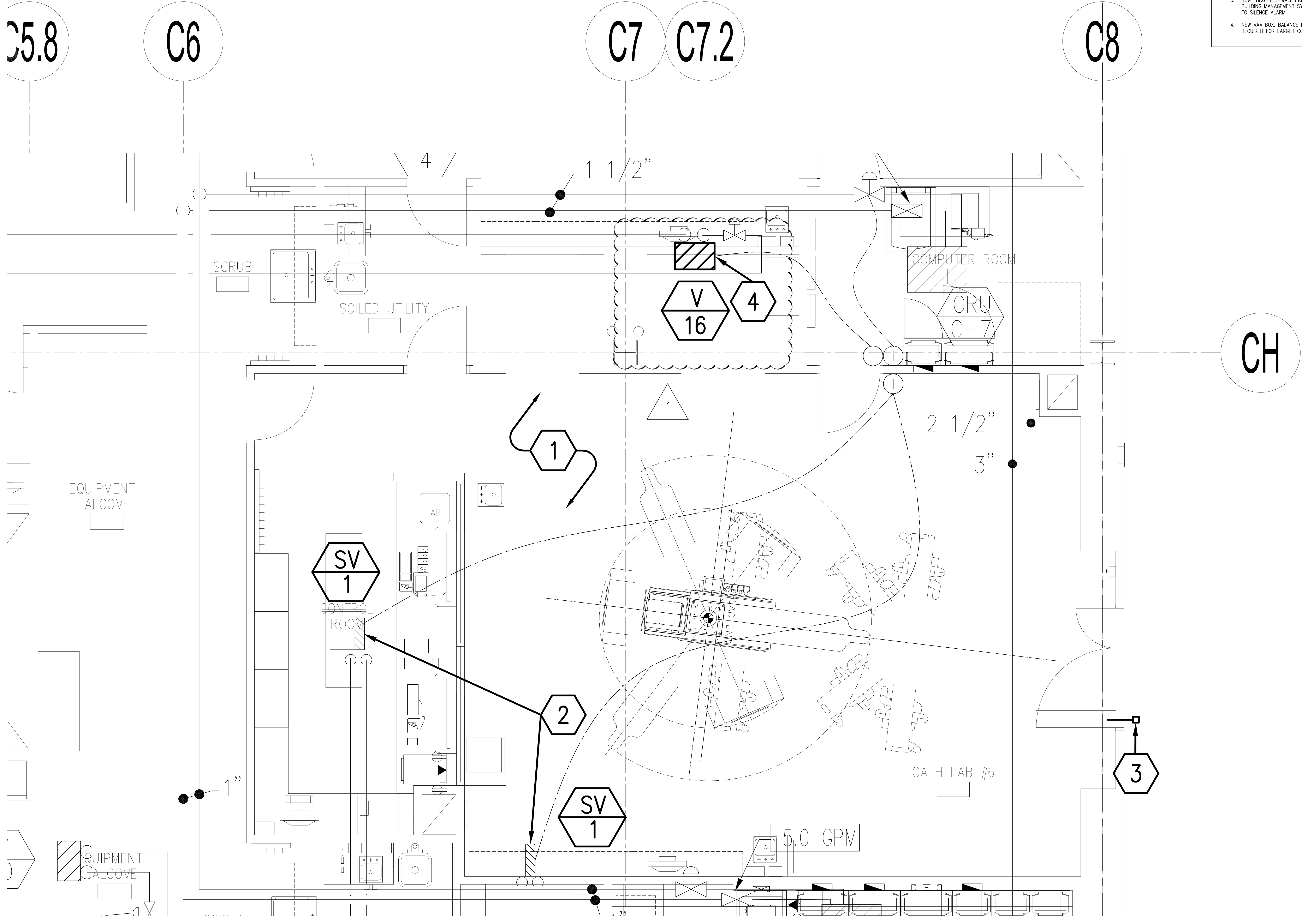


1 MECHANICAL PLAN
SCALE: 1/2" = 1'-0"

Intermountain Healthcare
IMC- Cath Lab 6 Remodel Project

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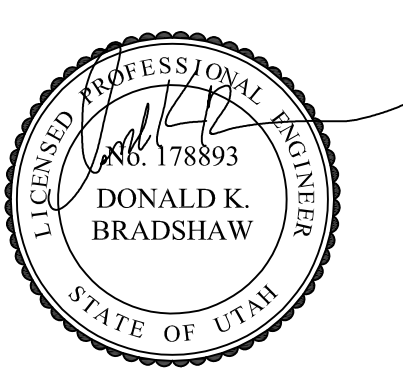
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- # KEYED NOTES**
- EXISTING SHOWN LIGHT TO REMAIN. NEW WORK SHOWN DARK. FIELD VERIFY EXISTING CONDITIONS. TYPICAL.
 - KEEP EXISTING VAV REHEAT COILS FOR USE ON NEW PHOENIX CONTROL VALVES. FIELD VERIFY EXISTING CONDITIONS.
 - NEW THRU-THE-WALL PRESSURE MONITOR. TIE INTO BUILDING MANAGEMENT SYSTEM. PROVIDE DOOR SWITCH TO SILENCE ALARM.
 - NEW VAV BOX. BALANCE EXISTING PIPING TO NEW FLOW REQUIRED FOR LARGER COIL.



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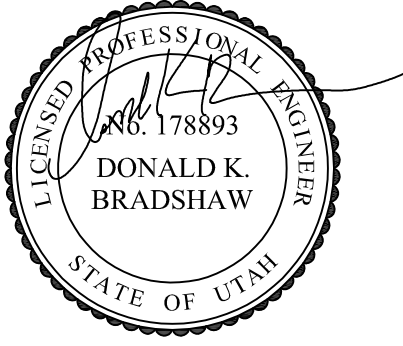
NJRA Project # 18226.00
Construction Documents Feb 28, 2019
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MECHANICAL PIPING PLAN

M211

1 MECHANICAL PIPING PLAN
SCALE: 1/2" = 1'-0"





AIR CONTROL VALVE SCHEDULE

AREA SERVED	ID	MANUFACTURER AND MODEL NUMBER	SUPPLY INLET DIA. (IN)	AIR										FLUID										COIL										GENERAL EXHAUST					NOTES
				COOLING MAXIMUM AIRFLOW (CFM)	HEATING MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	UNOCCUPIED MINIMUM AIRFLOW (CFM)	AIRFLOW DRIVING FACTOR	ENTERING AIR TEMP. DB (DEG. F)	MINIMUM LEAVING AIR TEMP. (DEG. F)	S.P. LOSS AT MAX (IN H2O)	HEAT LOAD (MBH)	TOTAL FLUID FLOW (GPM)	ENTERING/ LEAVING FLUID TEMP. (DEG. F)	WORKING FLUID	MAX. FLUID PRESSURE DROP (FT)	MIN. COIL ROWS	MIN. FINS (FPI)	COIL SIZE H x W (IN)	AIR PRESSURE DROP (IN. W.G.)	PIPE SIZE (IN)	INLET DIA. (IN)	MAXIMUM AIRFLOW (CFM)	MINIMUM AIRFLOW (CFM)	UNOCCUPIED MINIMUM AIRFLOW (CFM)	S.P. LOSS AT MAX (IN H2O)													
				14	1360	865	865	---	52	72	0.3	15.9	1.06	180/150	WATER	3	2	10	9x8	0.06	3/4	---	---	---	---	---	---	---											
CATH LAB #6	SV-1	PHOENIX H5VA 114LA	14	1360	865	865	865	---	52	72	0.3	15.9	1.06	180/150	WATER	3	2	10	9x8	0.06	3/4	---	---	---	---	---	---	(1)(2)(3)(4)(5)											
CATH LAB #6	GRV-1	PHOENIX HEVA 114LA	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	14	1200	740	740	0.3	(1)(2)(4)(5)												

- (1) ALL CAPACITIES AT 4,305 FT ELEVATION.
- (2) PRESSURE INDEPENDENT CONTROL VALVE. VALVE SHALL BE EQUIPPED WITH PRESSURE SWITCH.
- (3) COIL AIR PRESSURE DROP RATED AT HEATING AIRFLOW. SUBMITTAL SHALL INCLUDE AIR PRESSURE DROP AT MAXIMUM SPECIFIED AIRFLOW. AIR PRESSURE DROP NOT TO EXCEED 0.4" W.G.; WATER PRESSURE DROP NOT TO EXCEED 5 FT HD (EXCEPT WHERE NOTED OTHERWISE).
- (4) REPLACEMENT OF VAV BOX WITH PHEONIX VALVE TO BE BIDDED AS AN ALTERNATE.
- (5) AIR CONTROL VALVES TO BE OF THE LOW PRESSURE DESIGN AND ABLE TO AUTOMATICALLY COMPENSATE FOR PRESSURE FLUCTUATIONS WITHOUT MOTOR MOVEMENT DOWN TO 0.3" OF STATIC PRESSURE.

GRILLES, REGISTERS AND DIFFUSERS

ID	MANUFACTURER	MODEL	DESCRIPTION
CD-1	EH PRICE	SMD	<p>FACE STYLE: LOUVERED FACE DIFFUSER FACE SIZE: 21" x 21" DUCT SIZE: 18" X 18" APPLICATION: ENGINEERED VAV SYSTEMS MATERIAL: STEEL FINISH: B12 WHITE POWDERCOAT</p> <p>MOUNTING-FRAME: SURFACE OR LAY-IN, (C/W CEILING TYPE.) PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: OPPOSED BLADE MAX NC - 30 DAMPER: NONE REMOVABLE FACE</p>

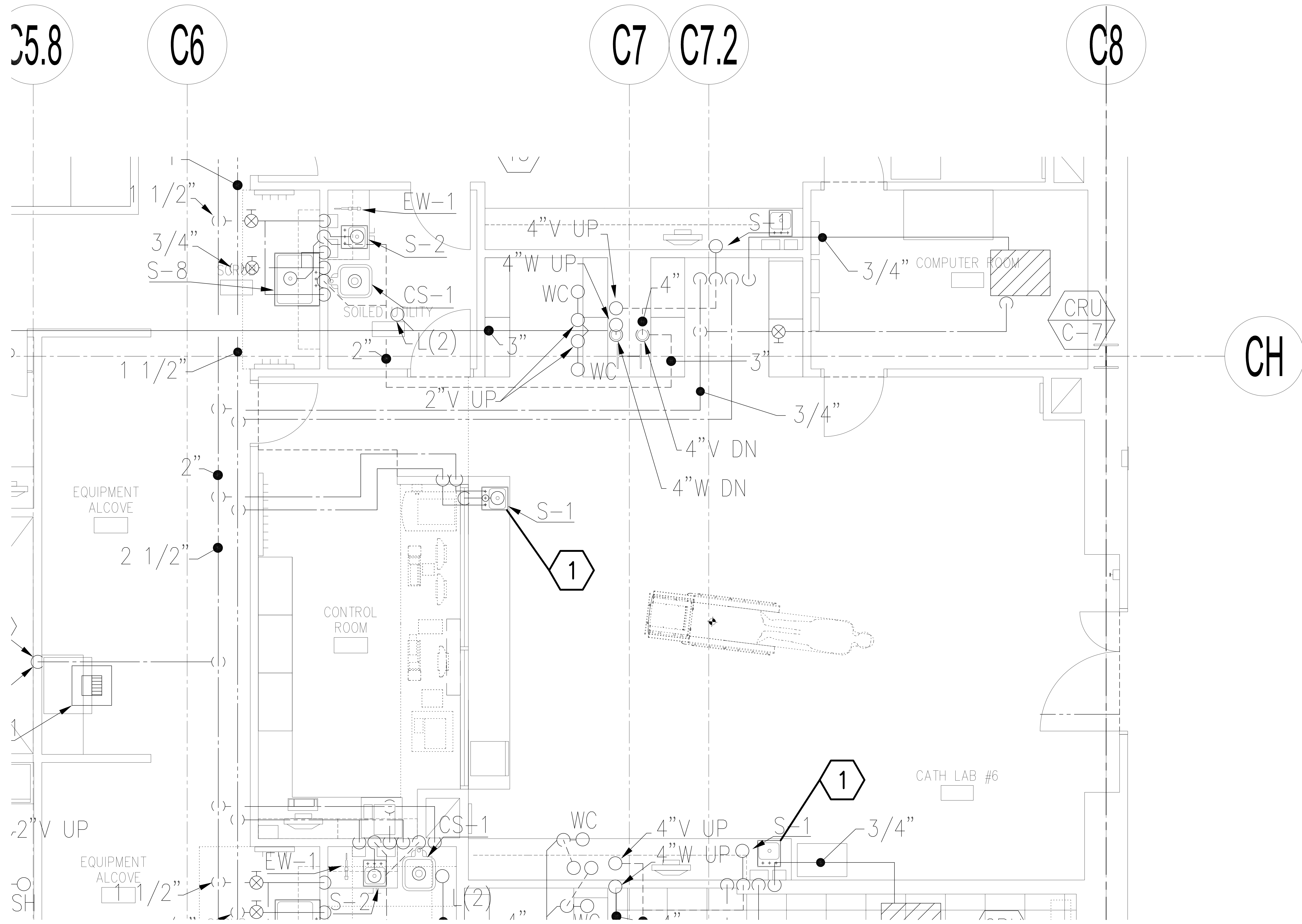


VAV BOX SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	INLET SIZE (IN)	AIR			ENTERING AIR TEMP. DB (DEG. F)	LEAVING AIR TEMP. DB (DEG. F)	S.P. LOSS AT MAX (IN H2O)	NC AT 1" H2O (1)	FLUID (2)		TOTAL FLUID FLOW (GPM)	ENT. FLUID TEMP (DEG. F)	WORKING FLUID	MAX. FLUID PRESSURE DROP (FT)	MIN. COIL ROWS	PIPE SIZE (IN)	BALANCING VALVE SIZE (IN)	REMARKS
			COOLING MAXIMUM AIR (5) (CFM)	HEATING MAXIMUM AIR (CFM)	MINIMUM AIR (3) (CFM)					HEAT LOAD (MBH)	TOTAL FLUID FLOW (GPM)								
V-16	TITUS-ESV-3	16	2800	1680	580	52	100	0.7	26	69.6	3.5	180	H. WATER	1	2	3/4	3/4	1,2,3,4,5,6	

- 1. MAXIMUM DISCHARGE NC AT BOX DIFFENTIAL PRESSURE BASED ON ARI STANDARD 880-89
- 2. COIL HEATING CAPACITY BASED ON HEATING MAXIMUM AIR FLOW (60% OF MAXIMUM COOLING CFM).
- 3. MINIMUM CFM IS LOWEST CONTROLLABLE CFM SETTING (BASED ON 400 FPM INLET VELOCITY).
- 4. MAXIMUM STATIC PRSSURE DROP PERMISSABLE ACROSS BOX AND COIL AT MAXIMUM COOLING CFM.
- 5. BOX COOLING MAXIMUM IS THE SUM OF DIFFUSERS CFM VALUES AS SHOWN IN THE DRAWINGS. BOX MINIMUM CFM TO BE SET AT 30% OF THIS MAXIMUM. BOX HEATING CFM TO BE SET AT 60% OF THIS SAME MAXIMUM. TYPICAL UNLESS OTHERWISE NOTED.
- 6. PRESSURE INDEPENDENT TYPE BOX.

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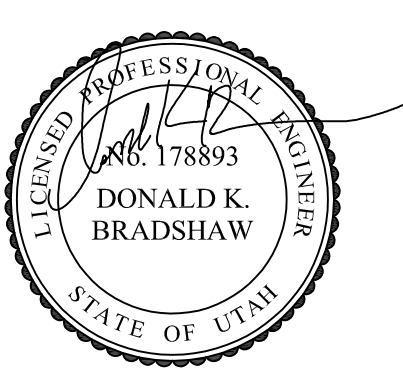


KEYED NOTES

1. VERIFY FUNCTIONALITY OF SINK, CLEAN ALL FITTINGS AND SURFACES.



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VBA Project Number: 16583

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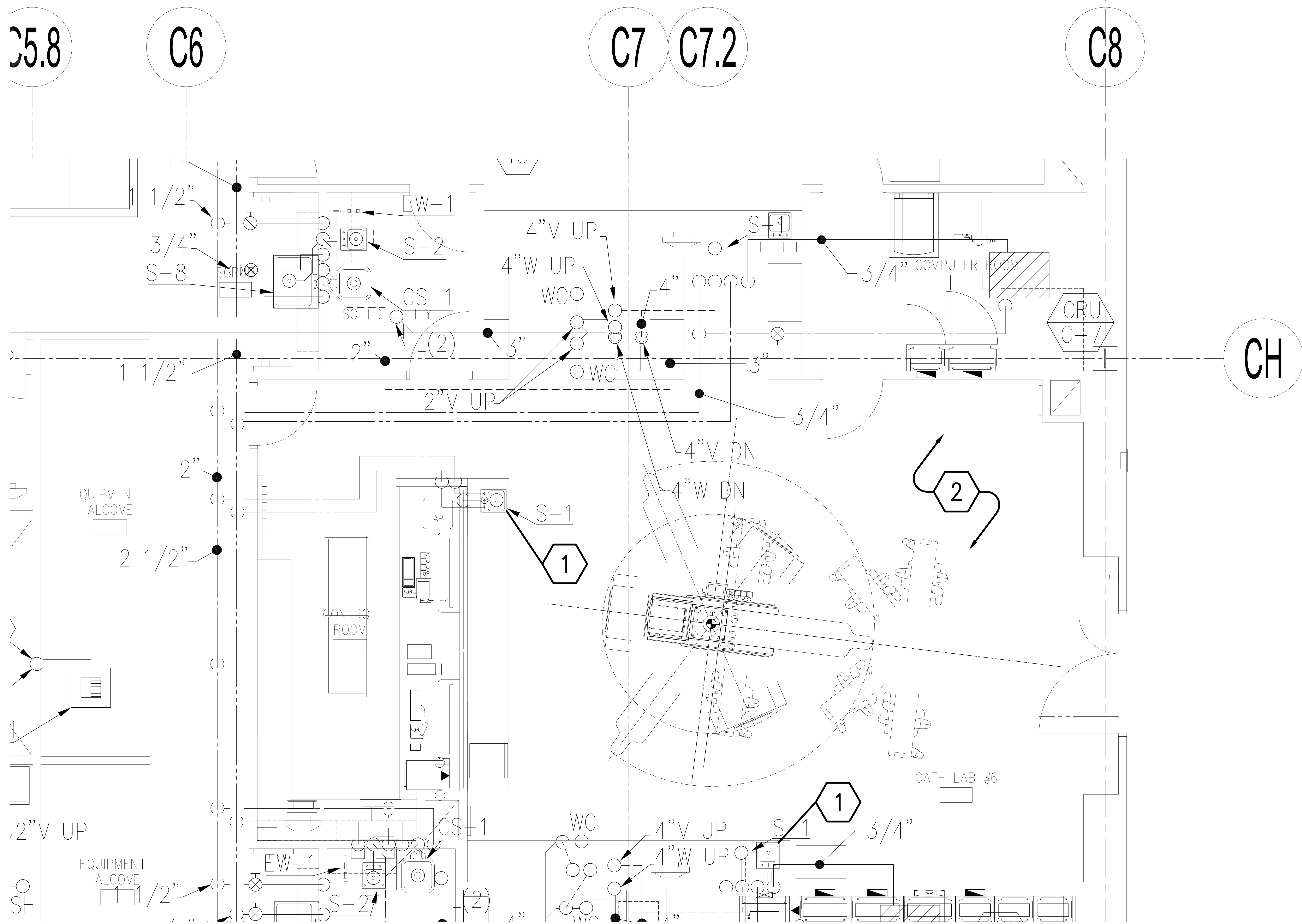
PLUMBING
DEMOLITION PLAN

P101

1 PLUMBING DEMOLITION PLAN
SCALE: 1/2" = 1'-0"

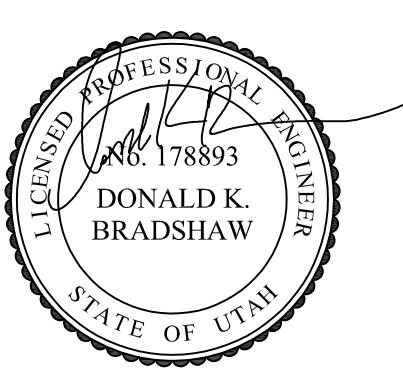


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- KEYED NOTES**
1. VERIFY FUNCTIONALITY OF SINK, CLEAN ALL FITTINGS AND SURFACES.
 2. REPLACE EXISTING SPRINKLER HEADS WITH SPACING PER NFPA 13 STANDARDS. REMOVE AND REROUTE SPRINKLER PIPING AS NECESSARY TO ACCOMMODATE OTHER DISCIPLINES.

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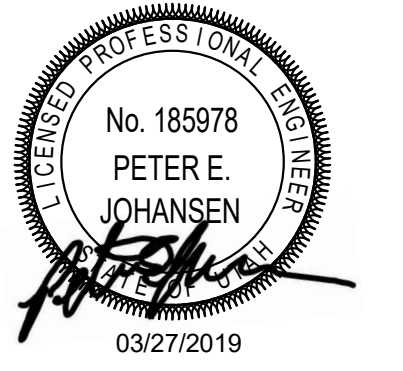
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PLUMBING PLAN

P111

1 PLUMBING PLAN
 SCALE: 1/2" = 1'-0"





DEMOLITION NOTES

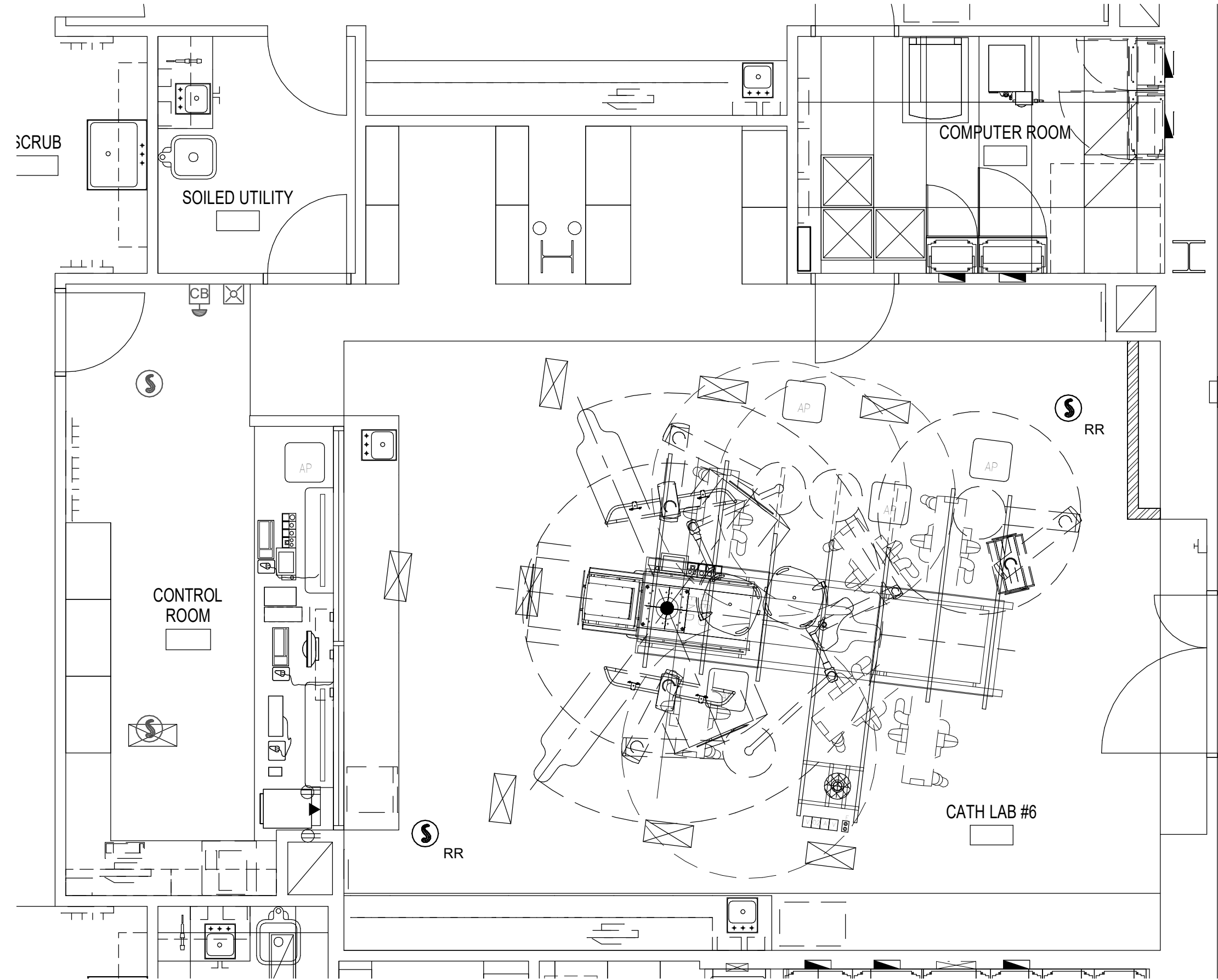
- UNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, OUTLETS, DEVICES AND EQUIPMENT IN HATCHED AREAS. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANEL BOARD OF ORIGIN. SYSTEMATICALLY CHECK EACH BRANCH PANEL BOARD CIRCUIT TO VERIFY THAT EACH CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOAD. DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF. ANY REMAINING ACTIVE LOADS SHALL BE LABELED AND THE PANEL BOARD AS TO WHAT LOAD IS SERVED.
- UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO THE PANEL BOARD OF ORIGIN OR TO THE FIRST ACTIVE DEVICE THAT REMAINS.
- SALVAGE ALL LIGHT FIXTURES, TWIST LOCK RECEPTACLES AND WALL PLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.
- PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- PRIOR TO THE REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
- REMOVE ALL DEVICES, RACEWAYS, AND WIRING FROM WALL TO BE REMOVED. WHERE ACTIVE RACEWAY OCCURS IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH THE ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
- REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLES WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS. EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.

GENERAL SHEET NOTES

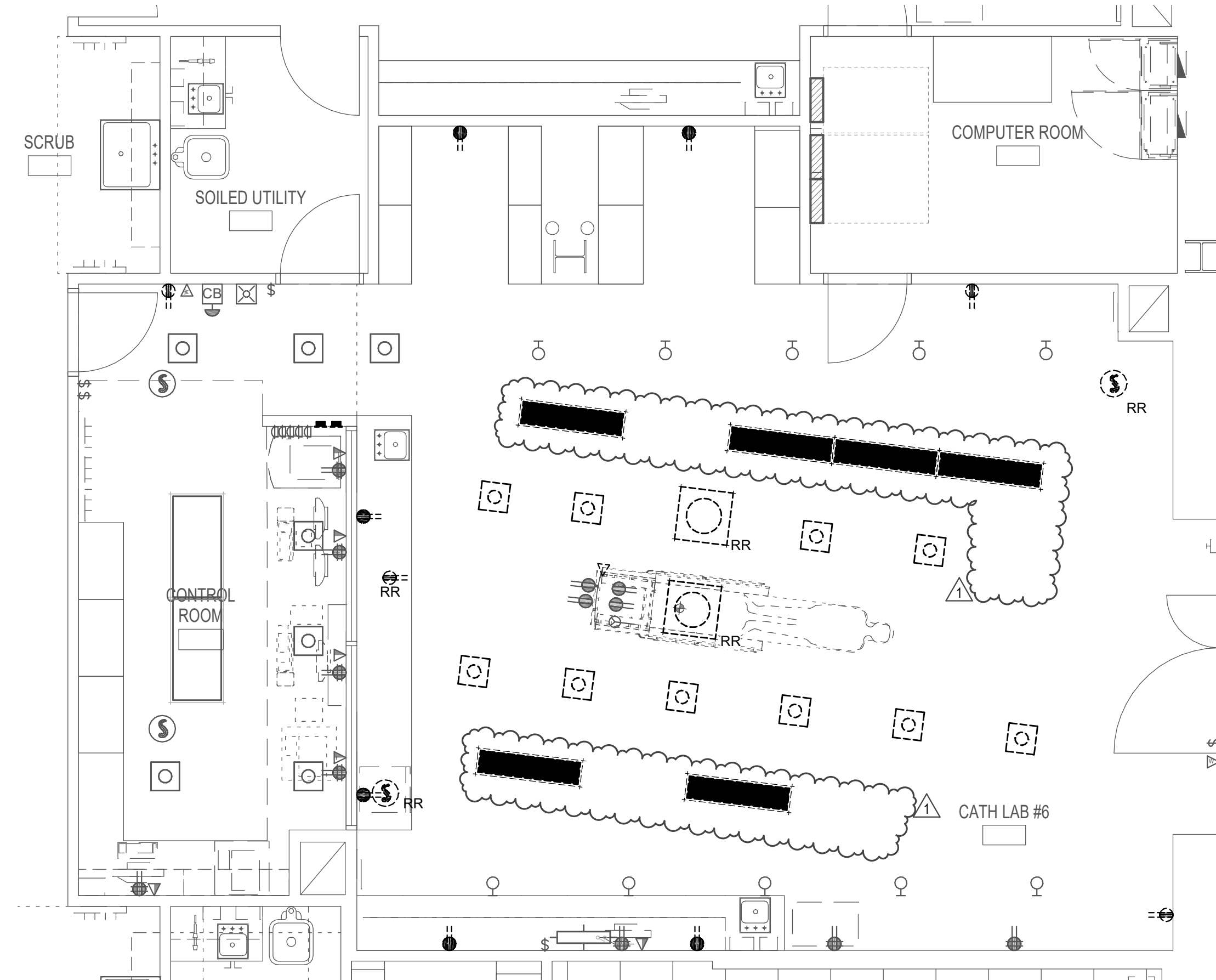
- PROVIDE A DEDICATED NEUTRAL FOR ALL BRANCH CIRCUITS.
- ALL RECEPTACLES INSTALLED WITHIN 6" OF THE EDGE OF A SINK SHALL BE GFCI PROTECTED.
- PROVIDE NEW TYPED PANEL SCHEDULES FOR ALL PANELS AFFECTED DURING CONSTRUCTION.
- IF GFCI RECEPTACLES WILL NOT BE LOCATED IN AN ACCESSIBLE LOCATION PROVIDE A REMOTE TEST/RESET SWITCH LOCATED IN AN ACCESSIBLE LOCATION AS NEAR THE RECEPTACLE AS POSSIBLE.
- REFER TO SIEMENS AND SKYTRON DRAWINGS ON EP700 SHEETS FOR ADDITIONAL CONTRACTOR RESPONSIBILITIES.

SHEET KEYNOTES

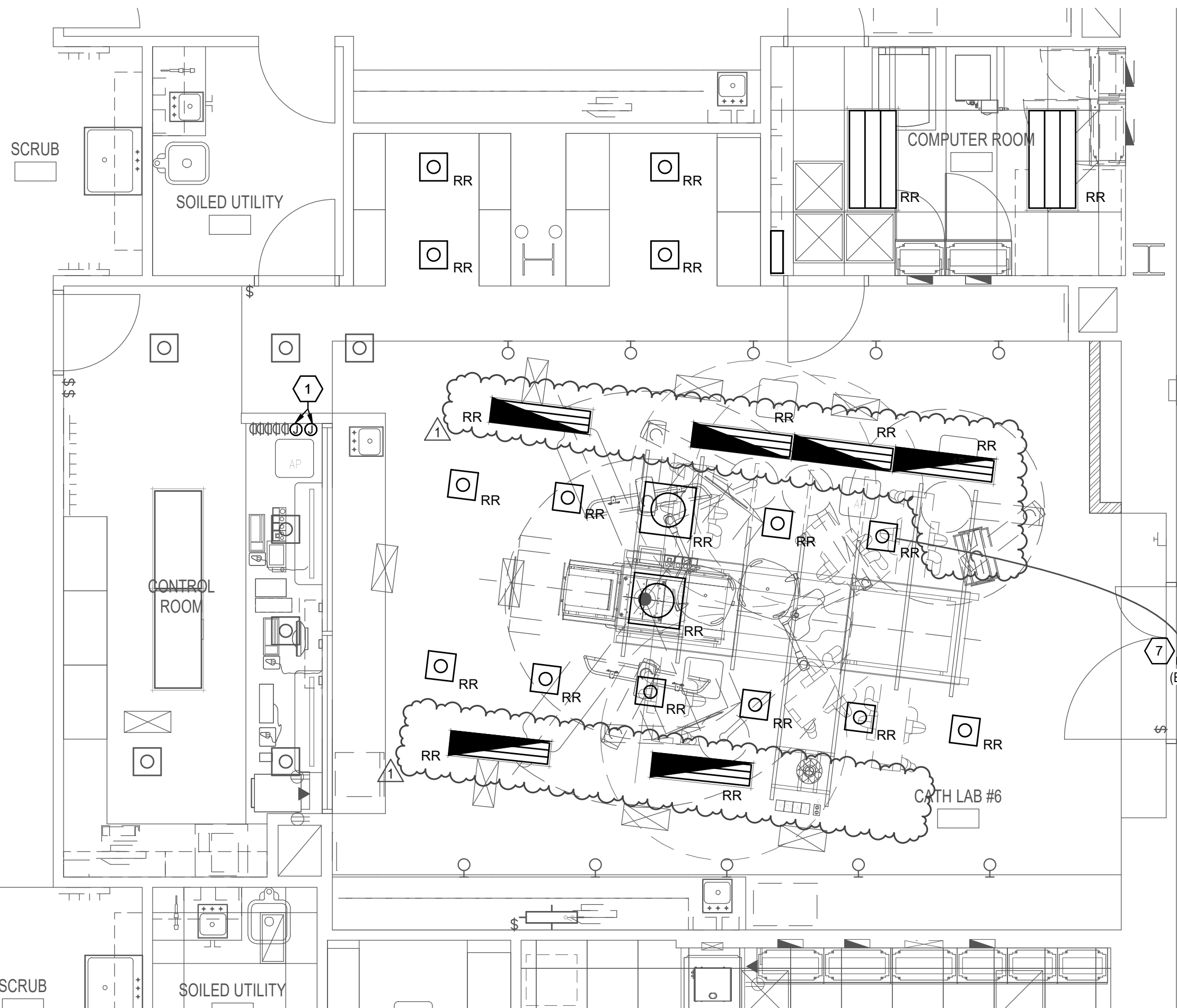
- PROVIDE BACK BOX AS REQUIRED FOR SKYTRON LIGHTING CONTROLS AS INDICATED IN SKYTRON DRAWINGS. PROVIDE (1) 75' CONDUIT FOR THE 120V POWER CIRCUIT AND ONE 75' CONDUIT FROM LIGHTING CONTROL BOX TO THE BOOM. REFER TO SKYTRON DRAWINGS FOR WIRING REQUIREMENTS AND ADDITIONAL CONTRACTOR RESPONSIBILITIES.
- PROVIDE EMERGENCY POWER OFF SWITCH CONNECTED TO CATH LAB MAIN SHUT TRIP BREAKER (MP).
- PROVIDE THREE 120V 20A CIRCUITS TO SKYTRON BOOM. ONE CRITICAL BRANCH FOR THE LIGHT AND ONE CRITICAL ISOLATION CIRCUIT AND ONE NORMAL ISOLATION FOR THE RECEPTACLES. CONNECT LIGHT BACK TO LIGHTING CONTROLS LOCATED IN THE CONTROL ROOM. COORDINATE EXACT LOCATIONS WITH SKYTRON DRAWINGS.
- PROVIDE ONE DATA DROP TO BOOM. STRUCTURED CABLING INSTALLER TO MAKE ALL TERMINATIONS IN BOOMS.
- PROVIDE FOUR 120V 20A CIRCUITS TO SKYTRON BOOM FOR RECEPTACLES (TWO CRITICAL ISOLATION CIRCUITS, AND TWO NORMAL ISOLATION CIRCUITS), THREE STANDARD DATA DROPS AND ONE PATIENT MONITORING DATA DROP. STRUCTURED CABLING INSTALLER TO MAKE ALL FINAL TERMINATIONS IN BOOM.
- CIRCUIT TO EXISTING 120V RECEPTACLE CIRCUIT.
- CONNECT TO EXISTING LIGHTING CIRCUIT IN THE ROOM. DO NOT CONNECT TO ANY ROOM LIGHTING SWITCH LEGS. REFER TO SIEMENS DETAIL 1 ON SHEET EP704.
- PROVIDER POWER TO NEW VAV BOX. CONNECT TO EXISTING CIRCUIT FEEDING NEARBY VAV'S.
- PROVIDE (4) 2" CONDUITS FROM STUBBED TO ABOVE THE NEW NETWORK RACK TO THE FOLLOWING LOCATIONS: (1) CONDUIT TO MONITOR BOOM ON PATIENT RIGHT, (1) CONDUIT TO MONITOR BOOM ON PATIENT LEFT, (1) CONDUIT TO MED GAS EQUIPMENT BOOM AND (1) CONDUIT TO UNDER THE CONTROL ROOM DESK VIA THE CHASE ON THE WEST END OF THE CONTROL ROOM.
- PROVIDE (1) 2" CONDUIT FROM NEW NETWORK RACK LOCATION TO THE MED GAS PEDASTAL. RUN CONDUIT DOWN TO THE CEILING SPACE OF THE FLOOR BELOW AND BACK UP TO THE PEDASTAL.
- RE-CIRCUIT EXISTING RECEPTACLES TO NEW ISOLATION PANEL.
- PROVIDE A 1.25" CONDUIT WITH CAT 6E SHIELDED CABLE FROM THE VIDEO SWITCH LOCATION IN THE PROCEDURE ROOM TO THE DATA RACK LOCATED IN THE EQUIPMENT ROOM.



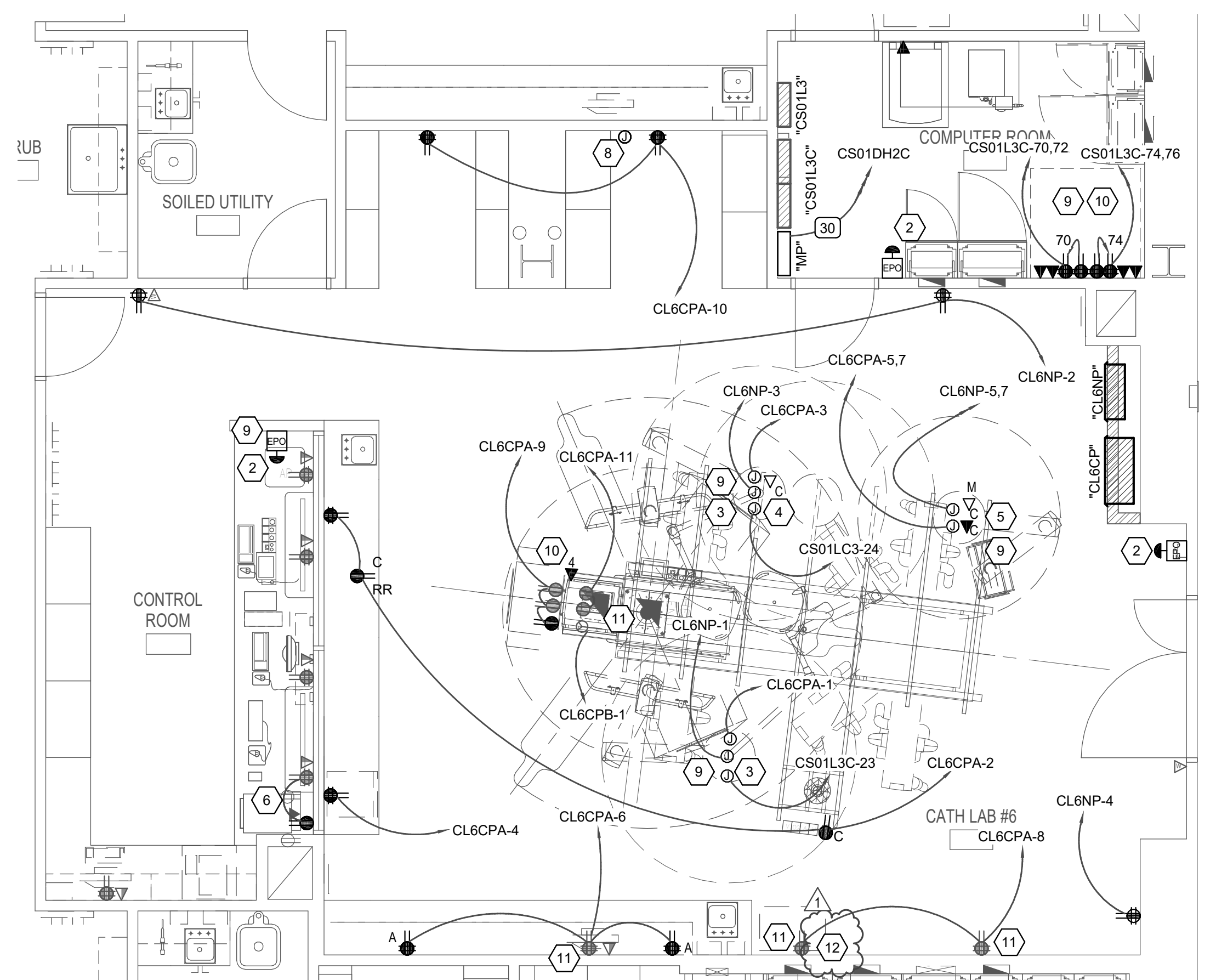
4 LEVEL 1 AUXILIARY PLAN
SCALE: 1/4" = 1'-0"



3 LEVEL 1 ELECTRICAL DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



2 LEVEL 1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"



1 LEVEL 1 POWER PLAN
SCALE: 1/4" = 1'-0"

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