

WALL NOTES

1. ALL WALLS THAT ARE TO BE PAINTED, SHALL BE P-1, FIELD COLOR, AMAZING GRAY, UNLESS NOTED OTHERWISE ON THIS PLAN.
2. SEE ROOM FINISH SCHEDULE AND FLOOR PLAN FOR WP LOCATIONS.
3. ALL EXPOSED STEEL COLUMN SHALL BE PRIMED AND PAINTED THE FIELD COLOR PER SPECIFICATIONS, UNLESS NOTED OTHERWISE.

WALL LEGEND (KEYED)

- (P1) FIELD COLOR, SHERWIN-WILLIAMS, NO-VOIEGG SHELL, "AMAZING GRAY" SW704
- (P2) "TASK" ACCENT COLOR, SHERWIN-WILLIAMS, NO-VOIEGG SHELL, "SMOKY BLUE" SW7604
- (P3) "LIVING" ACCENT COLOR, SHERWIN-WILLIAMS, NO-VOIEGG SHELL, "GREEN SPROUT" SW7728
- (P4) "REFRESH" ACCENT COLOR, SHERWIN-WILLIAMS, NO-VOIEGG SHELL, "MAGNAC" SW6364
- (P5) DOOR FRAMES, SHERWIN-WILLIAMS, "KEYSTONE GRAY" SW 7294
- (P6) WHITE BOARD PAINT, "IDEA PAINT" "THIS" & "THAT" WHITE GLOSS
- (P7) BACKSPLASH TILE AND GROUT: CERAMIC TILE - AMERICAN LEAN PROFILES ICE WHITE 0025 GROUT - TEC UNBANDS GROUT MIST 989
- (P8) REGIONAL WALL MATERIAL
- WP-1: VARITEX 0.090" THICK RIGID SHEET, SATIN FINISH, AS MANUFACTURED BY CRANE COMPOSITES. COLOR TO BE POPPERDUST. 4'-0" HIGH WAINSCOT (TO UNDERSIDE OF WALL CAP AT LOW WALLS).
- WP-2: GLASSBORO 0.090" THICK RIGID SHEET, EMBOSSED FINISH, AS MANUFACTURED BY CRANE COMPOSITES. COLOR TO BE PEARL GREY. PANEL TO 6" ABOVE CEILING AT WATER TREATMENT AND TO THE UNDERSIDE OF CEILING AT ALL OTHER LOCATIONS

GRAPHICS LEGEND (KEYED)

1. WELCOME GRAPHIC
2. DAVITA LOGO
3. MISSION AND CORE VALUES
4. RESOURCE CENTER
5. THANK YOU
6. WALL OF FAME
7. SCENIC GRAPHICS
8. THE DAVITA WAY
9. VISION STATEMENT
10. BRINGING QUALITY TO LIFE

BULLETIN BOARDS (KEYED)

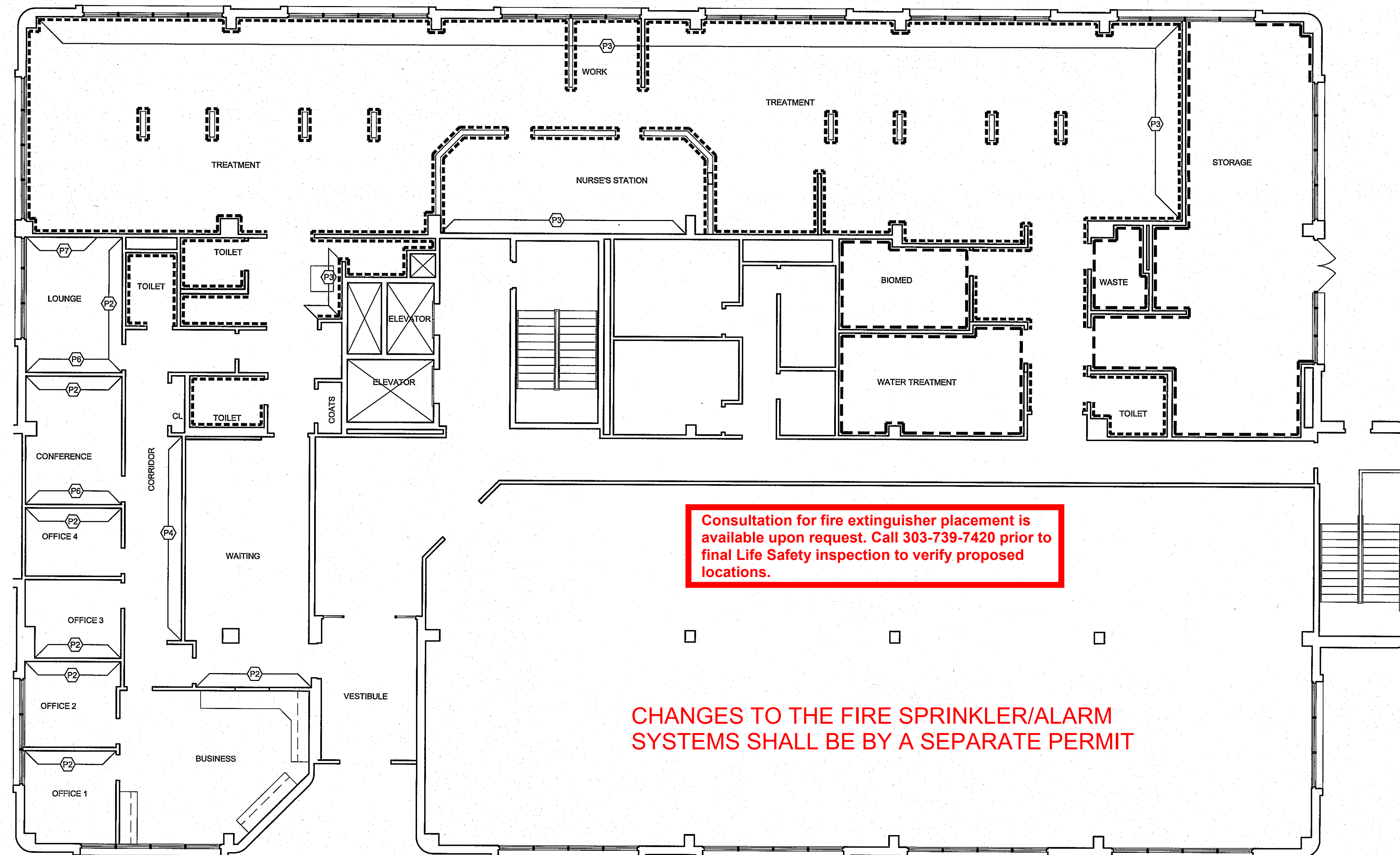
- ▽ PATIENT INFO/STATE-REQUIRED POSTINGS
- ▽ TEAMMATE INFO/OSHA-REQUIRED POSTINGS
- ▽ R.O./BICARB & STORAGE POSTINGS

FLOOR/BASE LEGEND

- FLOORING:**
- (SV-1) SHAW "NATURELIFE" CUSTOM 350A, HOPE LIVING
- (C-1) SHAW "IMAGE" CARPET TILE, HOPE TASK
(C-2) SHAW "WELCOME IF" TILE ST031 STERLING 31567
- (LV-1) SHAW "UNCOMMON GROUND" 6" PLANK HOPE REFRESH
- (RF-1) DUR-A-FLEX HYBRID-FLEX-ES NO CHIP "SLATE" MATTE
- (S-1) CLEAR SEALER

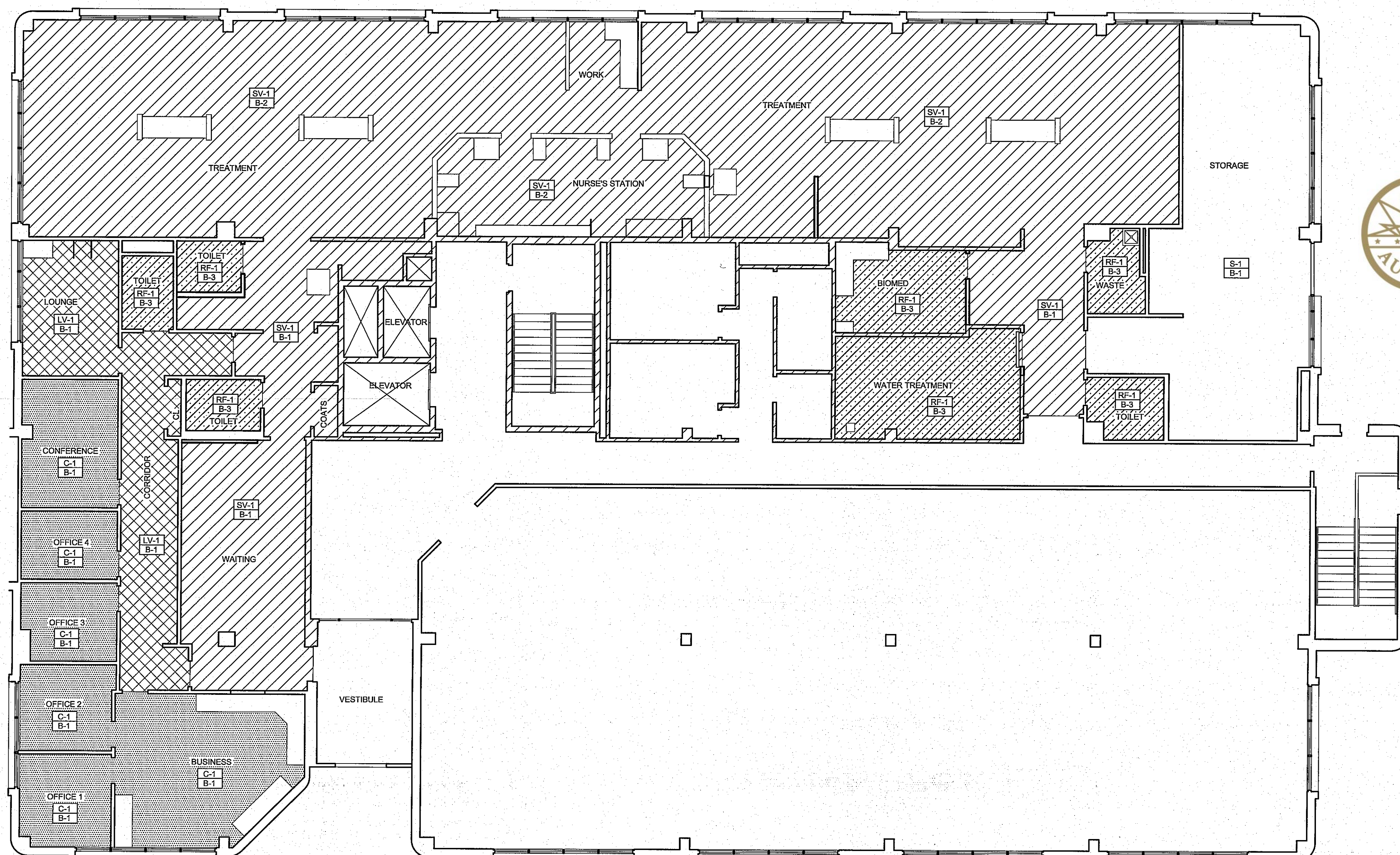
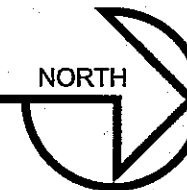
BASE:

- B-1 4" STANDARD COVE BASE JOHNSONITE "BROWN" 47
- B-2 4" INTEGRAL SHEET VINYL COVE SHAW "NATURELIFE" CUSTOM 350A
- B-3 4" INTEGRAL RESINOUS COVE DUR-A-FLEX HYBRID-FLEX-ES SOLID COLOR "SLATE" MATTE



WALL FINISH PLAN

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



FLOOR FINISH PLAN

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



City of Aurora Building Division
 Project: **Davita Tenant Improvement**
 Address: **1411 S. Potomac St. # 100**
 Occupancy Group: **B**
 Construction Type: **II 1hr-SPK.**
 RSN: **1322345**
 Permit: **18-1529237 LT**

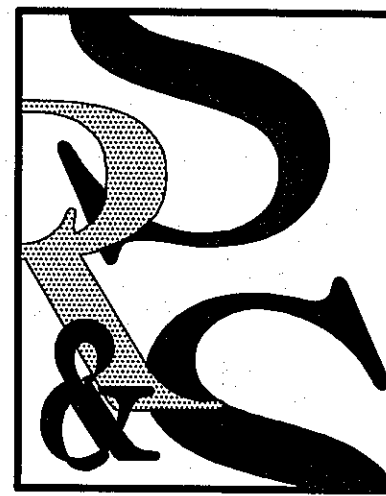
City of Aurora Building Division
 Reviewed for Code Compliance
 Approved as Noted: **pmckown**
 Date: **Sep 26, 2018**
 2015 INTERNATIONAL CODES & 2017 NEC

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

Field Inspection consultation is available upon request. Call 303-739-7420 to request a consultation

COORDINATION NOTES

1. REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
2. MECHANICAL, PLUMBING AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND TO REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
3. FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION.



SEARER, ROBBINS & STEPHENS, INC.
 ARCHITECTURE
 1750 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020
 (602) 277-1187 FAX (602) 277-9878

INTERIORS

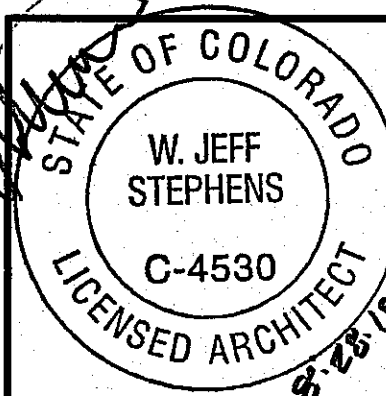
PLANNING

FINISH PLANS/SCHEDULES

DRAWN _____ SRS
 CHECKED _____ DBR
 JOB NO. 1820
 DATE AUG. 20, 2018

REVISIONS

COORD. COMMENTS
 AUG. 28, 2018

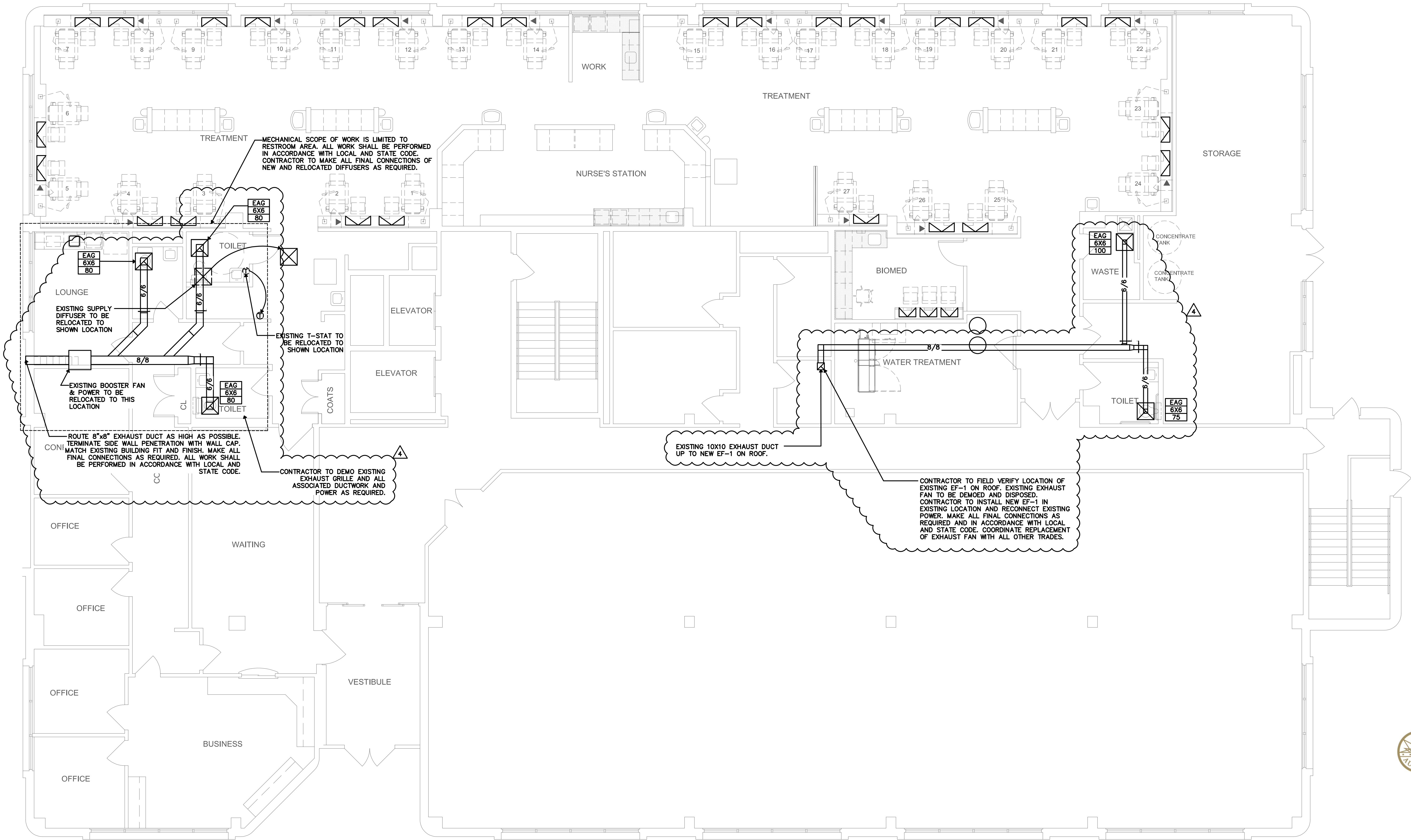


Davita
 Aurora Dialysis Center Upgrades
 at
 1411 South Potomac Street, Suite 100
 Aurora, Colorado 80012

SHEET NO.

A-701

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HVAC PLAN

0 1 2 4 8 SCALE: 3/16" = 1'-0"



GRILLE, REGISTER, AND DIFFUSER SCHEDULE

TAG	EAG			
MANUFACTURER	PRICE			
MODEL NO.	PDDR			
SERVICE				
TYPE	EXHAUST			
FACE SIZE OR SLOT LENGTH - IN.	24X24			
NUMBER OF SLOTS / SIZE - IN.				
FINISH	WHITE			
REMARKS	2.5.7			

- NOTES: THIS SCHEDULE IS COMPREHENSIVE. ALL MARKS MAY OR MAY NOT BE USED ON THE PLANS
1. ADJUSTABLE AIR PATTERN CONTROLLERS. AIRFLOW ON BOTH SLOTS SHALL BE SET TO ONE DIRECTION AS INDICATED ON THE PLANS
 2. PROVIDE OPTIONAL CEILING DIFFUSER MOLDED INSULATION BLANKET.
 3. SLOT DIFFUSER SHALL BE EXTERNALLY INSULATED MODEL, WITH TWO 3/4" SLOTS.
 4. PROVIDE OPTIONAL T-BARS.
 5. PROVIDE WHITE POWDER COAT FINISH (INTERIOR ONLY FOR SLOT DIFFUSER).
 6. FURNISH WITH 12X12" DUCT CONNECTION.
 7. REFER TO PLANS FOR NECK SIZES AND QUANTITY.
 8. DOUBLE DEFLECTION GRILLE. ADJUST AIR PATTERN: VERTICAL (O' UP), HORIZONTAL (PER PLANS)

FAN SCHEDULE

TAG	EF-1		
MANUFACTURER	COOK		
LOCATION	ROOF		
MODEL NO.	90R15DH		
AIR FLOW-CFM	175		
EXT.STATIC PRESS.-IN. WG.	0.3		
TYPE	ROOF		
FAN TYPE	UPBLAST		
DRIVE TYPE	DIRECT		
FAN RPM	1065		
SOUND-SONES	3.3		
MOTOR	HP	1/8	
	RPM	1550	
ELECTRICAL	VOLTAGE	115	
	PHASE	1	
	HERTZ	60	
WEIGHT - LBS	21		
REMARKS	1,2,3,4,5		

- REMARKS:
1. PROVIDE ROUND DUCT UP TO WEATHER PROOF ROOF CAP WITH BIRDSCREEN. REF PLANS FOR DUCT SIZES.
 2. FAN SHALL RUN CONTINUOUSLY
 3. FURNISH WITH FACTORY MOUNTED DISCONNECT
 4. FURNISH WITH BACKDRAFT DAMPER.
 5. FURNISH WITH FACTORY PRE-WIRED FAN SPEED CONTROLLER.

GENERAL NOTES

1. ALL EXHAUST OUTLETS SHALL BE ABOVE THE ROOF LEVEL AND SHALL BE A MINIMUM OF 25FT FROM ANY FRESH AIR INTAKES OF VENTILATING SYSTEMS.
2. AIR HANDLING SYSTEMS SHALL NOT BE STARTED OR OPERATED WITHOUT MINIMUM OF MERV 8 FILTERS INSTALLED. ANY UNIT OPERATED WITHOUT PROPER FILTERS IN PLACE MUST HAVE DUCTWORK CLEANED IN CONFORMANCE WITH TEXAS ESRO REGULATIONS.

COORDINATION NOTES

1. REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
2. MECHANICAL, PLUMBING, AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE
3. FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION.
4. ALL EXPOSED PIPE, CONDUIT, AND DUCTWORK TO BE PREPPED BY TRADE FOR PRIME AND FINAL PAINT BY G.C. SEE ARCH. SPECIFICATIONS.

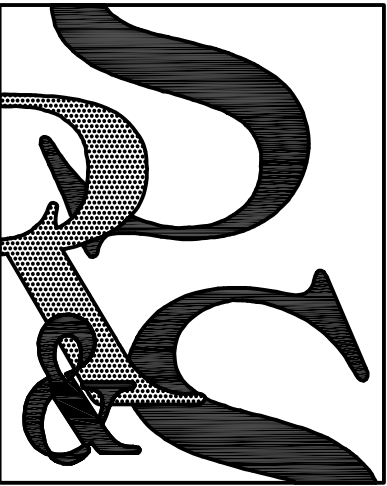
KEYNOTES

1. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING IDU. EXISTING IDU TO BE DEMOED AND DISPOSED. CONTRACTOR TO INSTALL NEW IDU IN EXISTING LOCATION. MAKE ALL FINAL CONNECTIONS AS REQUIRED AND IN ACCORDANCE WITH LOCAL AND STATE CODE. COORDINATE REPLACEMENT OF IDU WITH ALL OTHER TRADES.
2. CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING ODU. EXISTING ODU TO BE DEMOED AND DISPOSED. CONTRACTOR TO INSTALL NEW ODU IN EXISTING LOCATION USING CURB ADAPTOR. MAKE ALL FINAL CONNECTIONS AS REQUIRED AND IN ACCORDANCE WITH LOCAL AND STATE CODE. COORDINATE REPLACEMENT OF ODU WITH ALL OTHER TRADES.
3. CONTRACTOR TO PROVIDE DIRECTIONAL BLOCK OFF PLATES TO EXISTING DIFFUSER.



City of Aurora Building Division
Reviewed for Code Compliance
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RSN: 1322345
Permit #: 18-1529237 LT



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ARCHITECTURE INTERIORS
1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020
(602) 277-1187 FAX: (602) 277-9878

HVAC PLAN

DRAWN _____ TE
CHECKED _____ JVK
JOB NO. 1820
DATE AUGUST 1, 2018

REVISIONS
FIELD CHANGE 09/20/18



David A. Vitta
Aurora Dialysis Center Upgrades
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

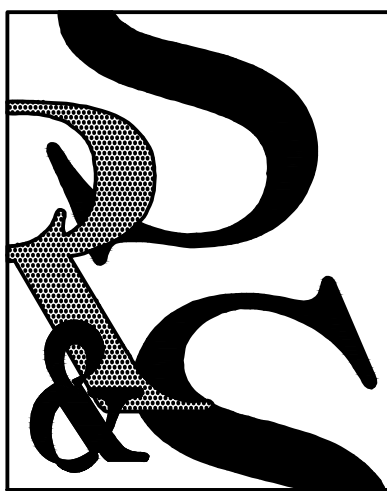
SHEET NO.

M-2

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

PLUMBING FIXTURE SCHEDULE																			
TAG	WC-1		L-1		FD-1		WCO-1		S-1		S-2		GD-1		TMV2		TD		
FIXTURE TYPE	WATER CLOSET		LAVATORY		FLOOR DRAIN		WALL		SINK		SINK		GARBAGE				PRE-SLOPED		
									LOUNGE		CLEAN SINK		DISPOSAL				48" LONG AND 6-1/4" WIDE		
	FLOOR MOUNTED		WALL MOUNTED		6"		CLEAN OUT		COUN TER MOUNTED		COUNTER MOUNTED						4" THROAT		
FLUSH TANK		20" X18"						17" X 13" X 6"		15-11/16" X 15-11/16" X 8-3/16"						SMOOTH 1-1/2" SELF RADIUSD			
MATERIAL	VITREOUS CHINA		VITREOUS CHINA		CAST IRON												SELF CLEANING BOTTOM		
COLOR	WHITE		WHITE						CAMEO WHITE		CAMEO WHITE								
ADA COMPLIANT	YES		YES						YES		YES		INSINKERATOR						
MANUFACTURER	KOHLER		KOHLER		ZURN		ZURN		CORIAN		CORIAN		BADGER 1				ZURN		
MODEL	4304-0		K2005-0		FR06NI-CS-P2S-CC-VP		Z1470 OR Z146		5610		804						Z886-HHP-U4		
TRIM	VALVE	TYPE			THERMOSTATIC MIXING VALVE				THERMOSTATIC MIXING VALVE		THERMOSTATIC MIXING VALVE				THERMOSTATIC MIXING VALVE				
			MANUFACTURER		WATTS		ZURN		LAWLER		LAWLER		LAWLER						
		MODEL		LF1170-M2		ZN400BZ-VP		570		570		570		570					
		FLOWRATE		0.5 GPM				0.5 GPM		0.5 GPM		0.5 GPM							
		FINISH												0.5 GPM					
	CARRIER	MANUFACTURER			ZURN														
		MODEL			Z-1231														
	SEAT	MANUFACTURER	PROFLO																
		MODEL	PFTSCOFZA2000WH																
	FINISH		ANTI-MICROBIAL																
	FAUCET	TYPE			HARDWIRED SENSOR OPERATED FAUCET				MANUAL FAUCET SWING SPOUT WITH SPRAYER HEAD		BATTERY POWERED SENSOR OPERATED FAUCET								
			MANUFACTURER		ZURN				ZURN		ZURN								
			MODEL		Z6-13-F-CWB-HW6-CP4				ZB31J1-XL-HCT-HS-ICT-4F		Z6-20-XL-K-CP6-GC								
			FLOWRATE		0.5 GPM				2.2 GPM		1.0 GPM								
			FINISH		CHROME				CHROME		CHROME								
DRAIN		TYPE			GRID STRAINER				OFFSET DRAIN										
		MANUFACTURER			PROFLO				PROFLO										
		MODEL			PFGD101				PFOD100										
		FINISH			CHROME				CHROME				120V, 60 Z, 1/3 HP						
		P-TRAP																	
MISCELLANEOUS	TANK				RECTORSEAL SURESEAL				BASKET STRAINER		PVC						RECTORSEAL		
	KOHLER 4484-0								PROFLO		STRAINER						HEAVY-DUTY DURA-COATED		
									PF1435		PROFLO						CAST IRON GRATE		
											PF1435								
WASTE □ VENT		ABOVE GROUND		4"		2"		2"		NOTED		2"		2"				4"	
ROUGH-IN SIZES - IN.		BELOW GROUND		4"		2"		2"		NOTED		2"		2"				4"	
		VENT		2"		2"		2"		--		2"		2"				2"	
WATER SUPPLY		COLD		1"		1/2"		--		--		1/2"		1/2"				--	
ROUGH-IN SIZES - IN.		HOT		--		1/2"		--		--		1/2"		1/2"				--	
		TEMPERED		--		--		--		--		--		--				--	
REMARKS		--		1,2		--		--		1,2		1,2						--	
REMARKS																			
1. PROVIDE M:GUIRE 155WC OFFSET CHROME PLATED CAST BRASS DRAIN, SEAMLESS BRASS TAILPIECE W/ CAST BRASS LOCKNUT, M:GUIRE 8:02 1 1/2" □ 1 1/2" PVC ADJUSTABLE P TRAP W/ CLEANOUT PLUG, M:GUIRE 170LN CHROME PLATED SOLID BRASS ANGLE STOPS W/ 5" CHROME PLATED COPPER EXTENSION TUBE □ LOOSE KEY, FLEXIBLE CHROME PLATED COPPER RISERS, TRUEBRO LAV-GUARD PVC TYPE INSULATION AROUND "P" TRAP AND IPS CONNECTIONS																			
2. INSTALL MIXING VALVE ABOVE CEILING IN ACCESSIBLE LOCATION. SET HOW WATER DELIVERY TO 110 DEG. F.																			
3.THE UNIT SHALL BE REINFORCED WITH A FIBERGLASS STRANDPOLYESTER RESIN MIX. UNIT SHALL HAVE A BACKSIDE FIRE RATING OF "B" AND A FLAME SPREAD OF 75. UNIT SHALL BE FURNISHED WITH AN ANTI-SKID FLOOR TREATMENT TO MEET PERFORMANCE REQUIREMENTS OF ASTM F-4621-78, AND SHALL ALSO CONFORM WITH ANSI A-117.1 AND ANSI Z-124.2. UNIT SHALL BE INSTALLED IN A PIT SO THAT THE FINISHED FLOOR WILL BE LEVEL WITH THE TOP OF THE THRESHOLD. UNIT SHALL INCLUDE THE FOLLOWING FACTORY INSTALLED ITEMS: GRAB BARS, 24 GLIDE RAIL, FOLD-UP TRANSFER SEAT WITH WOOD GRAIN PHENOLIC SLATES, AND CURTAIN AND SHOWER DRAIN.																			
4. PRESSURE BALANCING SHOWER VALVE WITH INTEGRAL CHECKSTOPS, STAINLESS STEEL TRIM, PERSONAL HAND SHOWER, SWIVEL CONNECTOR, 60 METAL HOSE, OUTLET ELBOW AND VACUUM BREAKER. ASSE 1016, IAPMO CUPC LISTINGS.																			
5.PERSONAL HAND SHOWER WITH SHUT-OFF AND MODEL SS15-Y010-60 HAND SHOWER HOSE (60" LONG). HAND SHOWER SHALL HAVE A FLOW RATE OF 2.0 GPM. SHOWER ASSEMBLY SHALL INCLUDE 24" GLIDE RAIL WALL ELBOW, SWIVEL CONNECTOR AND INLINE VACUUM BRAKER.																			

PLUMBING SYMBOLS	
—SS—	SANITARY SEWER
—	DOMESTIC COLD WATER
—	DOMESTIC HOT WATER
—	DOMESTIC HOT WATER RETURN
—STM—	STORM SEWER
—T—	TEMPERED WATER
—CA—	COMPRESSED AIR
—G—	NATURAL GAS
—CD—	CONDENSATE DRAIN
—	PLUMBING VENT
— —	UNION
—C—	ELBOW – TURNED DOWN
—O—	ELBOW – TURNED UP
—S—	TEE – TURNED DOWN
—X—	PLUG VALVE
— >—	CHECK VALVE
—O—	TEE – TURNED UP
— >—	BALL VALVE
— >—	SHUT-OFF VALVE IN VERTICAL LINE
— >—	BACKFLOW PREVENTER
—M—	WATER METER
—WHA—	WATER HAMMER ARRESTOR
— >—	T & P RELIEF VALVE
—FD1—	FLOOR DRAIN
—O—	ROOF DRAIN/OVERFLOW ROOF DRAIN
—O—	FLOOR CLEANOUT
—O—	YARD CLEANOUT
— >—	FREEZE PROOF WALL HYDRANT
— >—	HOSE BIBB
— >—	WALL CLEANOUT
— >—	GAS PRESSURE REGULATOR
— >—	GAS COCK
—AAV—	AIR ADMITTANCE VALVE
—TMV—	THERMOSTATIC MIXING VALVE
— >—	CONNECT TO EXISTING



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DRAWN _____ TE
CHECKED _____ JVK
JOB NO. 1820
DATE AUGUST 1, 2018

REVISIONS
1 OWNER CHANGES 08/28/18



DaVita
Aurora Dialysis Center Upgrades
at
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

SHEET NO.
P-1

ELECTRIC WATER HEATER			
TAG	EWH-1		EWH-2
MANUFACTURER	AO SMITH		AO SMITH
MODEL NO.	DEN-120		DEN-66
CAPACITY - GALLONS	100		66
RECOVERY - GPH AT 100 DEG. F. TEMPERATURE RISE	4		4
HEATING ELEMENT	NUMBER	2	2
	KW - EACH	6	6
	MAX DEMAND KW	12	12
ELECTRICAL	VOLTAGE / PHASE / HZ	480 / 3 / 60	480 / 3 / 60
	FULL LOAD AMPS	21.6	21.6
REMARKS			
1. HEATING ELEMENT FOR SIMULTANEOUS OPERATION			
2. PROVIDE DRAIN PAN			
3. EWH-1 UNIT IS FOR DOMESTIC WATER			
4. EWH-2 IS FOR WATER TREATMENT			
5. PROVIDE MANUFACTURER'S CONDENSATE NEUTRALIZATION KIT			
6. EWH-1 UNIT IS : EFFICIENT			
7. EWH-2 UNIT IS : EFFICIENT			

GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CURRENT LOCAL CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL PAY FOR ALL FEES AND PERMITS AS ARE NECESSARY FOR THE COMPLETE INSTALLATION OF THE PLUMBING SYSTEMS.
- PROJECT SHALL BE COORDINATED WITH THE EXISTING BUILDING SERVICES AND SHALL INCLUDE ALL ITEMS NECESSARY FOR COMPLETE AND FUNCTIONAL PLUMBING SYSTEMS, WHETHER OR NOT SPECIFICALLY NOTED ON THE PLANS OR IN SPECIFICATIONS.
- DO NOT SCALE DRAWINGS. COORDINATE WITH ALL OTHER TRADES FOR A COORDINATED INSTALLATION WITHIN THE AVAILABLE SPACE. WHERE CROWDED CONDITIONS EXIST, PREPARE COORDINATION DRAWINGS SHOWING ALL TRADE CONFLICTS AND SUBMIT TO THE ARCHITECT FOR APPROVAL AND DIRECTION PRIOR TO ROUGH-IN OR INSTALLATION. RELOCATION OF PLUMBING SYSTEMS MADE PRIOR TO ROUGH-IN OR REQUIRED BY EXISTING FIELD CONDITIONS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER OR HIS AGENTS.
- ALL WORK SHALL BE PERFORMED BY PROPERLY LICENSED MECHANICS OR UNDER THEIR DIRECT SUPERVISION.
- INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS AND DETAILS UNLESS OTHERWISE SHOWN ON PLANS.
- LABEL ALL EQUIPMENT AND PIPING AS INDICATED ON THE PLANS. INDICATE DIRECTION OF FLOW ON PIPING.
- PROVIDE SUPPLEMENTAL STEEL AND SUPPORTS AS REQUIRED FOR INSTALLATION OF PLUMBING EQUIPMENT AND PIPING.
- ALL WORK IN FINISHED AREAS SHALL BE CONCEALED UNLESS SPECIFICALLY NOTED AS EXPOSED ON THE PLANS. PRIOR TO THE INSTALLATION OF ANY EXPOSED WORK, THE CONTRACTOR SHALL VERIFY LOCATION AND EXTENT OF WORK AND OBTAIN APPROVAL FROM ARCHITECT.
- PROVIDE PRESSURE REDUCING VALVE ASSEMBLY IN WATER SERVICE LINE WHERE PRESSURE EXCEEDS 65 PSIG. SET THE PRV STATION TO 65 PSIG MAXIMUM.

GENERAL NOTES

- PROVIDE SANITARY SEWER CLEANOUTS IN ACCORDANCE WITH LOCAL CODES. PROVIDE SHUTOFF VALVES IN BRANCH WATER PIPING EXTENDING FROM MAINS, THAT FEED GROUPS OF PLUMBING FIXTURES OR ISOLATED PLUMBING FIXTURES.
- CONTRACTOR SHALL LOCATE AND PROVIDE FOR INSTALLATION BY OTHERS, ALL ACCESS PANELS AS REQUIRED FOR ACCESS TO VALVES, DAMPERS, MOTORS, ETC., AND THE PROPER SERVING OF EQUIPMENT AND PIPING INSTALLED UNDER THIS CONTRACT.
- NO FLOOR CLEAN OUTS IN PATIENT AREAS. EXISTING CLEANOUTS TO BE CONVERTED TO WALL CLEANOUTS AND CAPPED AND ABANDONED UNDERSLAB.
- PIPING MATERIALS:
 - SANITARY WASTE & VENT PIPING: SCHEDULE 40 PVC PIPING AND FITTINGS.
 - DOMESTIC WATER PIPING, ABOVE GRADE: COPPER PIPING.
 - DOMESTIC WATER PIPING, BELOW GRADE: TYPE K COPPER WITH BRAZED JOINTS.
 - CONDENSATE DRAIN PIPING: TYPE M COPPER WITH SOLDERED JOINTS, OR SCHEDULE 40 PVC WITH SOLVENT JOINTS.
 - NATURAL GAS PIPING 2" AND SMALLER: SCHEDULE 40 BLACK STEEL WITH THREADED JOINTS. FOR LARGER SIZES USE WELDED JOINTS AND FITTINGS.
 - REVERSE-OSMOSIS WATER PIPING LOOP: INSULATED 1" PEX PIPING. (OFC)
 - BI-CARBONATE LOOP: 3/4" DIAMETER PEX PIPE (FURNISHED BY MarCor AND INSTALLED BY CONTRACTOR).
 - THE TWO CONCENTRATE LOOPS: 3/4" DIAMETER PEX PIPE (FURNISHED BY MarCor AND INSTALLED BY CONTRACTOR).
 - PROCESS PIPING SUPPLY LINES TO EACH DIALYSIS BOX:
 - BICARB-KURI-TEC K3285, 1/4" I.D.
 - CONCENTRATE: KURI-TEC K3150-4, 1/4" I.D.
 - PROVIDE 3/8" STAINLESS STEEL HOSE CLAMPS BETWEEN KURI-TEC HOSE, SPEARS VALVES, AND DIALYSIS BOXES.

GENERAL NOTES

- LABEL PROCESS PIPING INDICATING TYPE OF FLUID AND FLOW DIRECTION AT 6"-0" ON CENTER AND AT EACH DIALYSIS BOX. USE LABELS AS MANUFACTURED BY SETON, OPTI-CODE, BSM, OR EQUAL. (OFCF)
- DAVITA BIOMED SHALL INSTALL PROCESS PIPING BRANCHES, FROM VALVES TO DIALYSIS BOXES.
- FIRE STOP AND SEAL ALL PIPING MATERIALS PASSING THROUGH FIRE RATED STRUCTURES OR FIRE RATED ASSEMBLIES IN ACCORDANCE WITH THE REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. USE CURRENTLY LISTED U.L. CLASSIFIED PRODUCTS, TESTED BY ASTM E814.
- PIPING INSULATION: REFER TO SPECIFICATION SECTION 15260 – MECHANICAL INSULATION FOR INSULATION TYPES AND THICKNESS.
- PLUMBING FIXTURES: FURNISH AND INSTALL PLUMBING FIXTURES AS SPECIFIED AND SCHEDULED ON THE PLANS. SINKS IN DIALYSIS AREAS, ETC. SHALL HAVE SCHEDULE 40 PVC TRAPS AND TAILPIECES. P-TRAPS SHALL HAVE THREADED CONNECTIONS FOR CLEAN-OUT PURPOSES.
- REDUCED PRESSURE BACKFLOW PREVENTERS: FURNISH AND INSTALL REDUCED PRESSURE BACKFLOW PREVENTERS PRIOR TO MAKING DOMESTIC WATER CONNECTIONS TO WATER TREATMENT EQUIPMENT.
- ALL PIPING SUPPORT SHALL MEET OR EXCEED THE REQUIREMENTS LISTED IN TABLE 308.5 OF THE 2009 IFC AND BE IN COMPLIANCE WITH MSS SP-58.

COORDINATION NOTES

- REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
- MECHANICAL, PLUMBING, AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
- FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION.
- ALL EXPOSED PIPE, CONDUIT, AND DUCTWORK TO BE PREPARED BY TRADE FOR PRIME AND FINAL PAINT BY G.C. SEE ARCH. SPECIFICATIONS.

Provide drains no smaller than allowed by 2015 IPC 709.1 and 710.1(1)

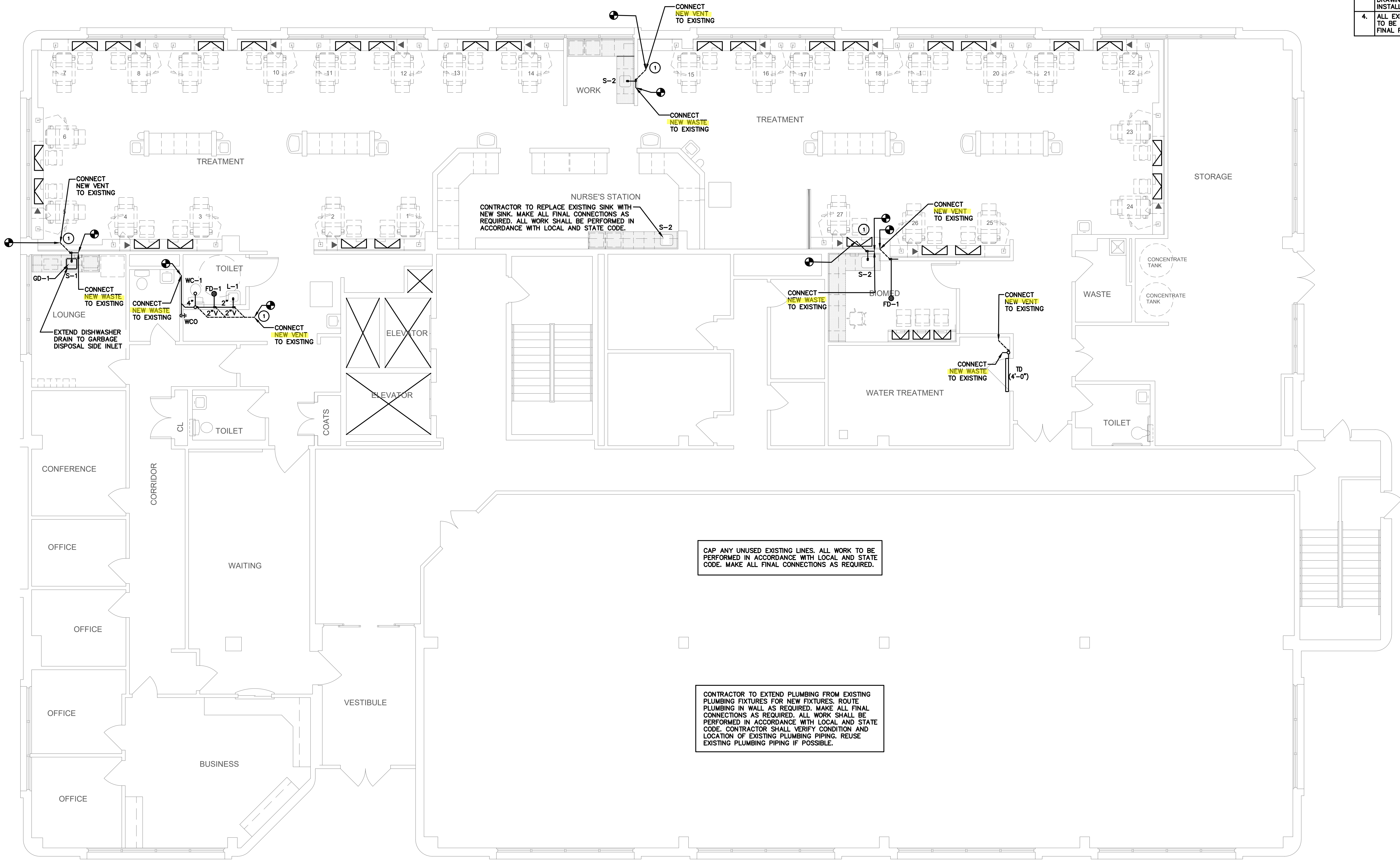
The dry vent must rise 6" vertically above the flood level rim of the highest trapped fixture being vented.
2015 IPC 905.4

KEYNOTES

1. CONTRACTOR TO CONNECT NEW VENT PIPING TO EXISTING PIPING OF 2" OR GREATER. FIELD VERIFY EXACT TIE-IN LOCATION.
2. CONTRACTOR TO VERIFY EXISTING LOCATION AND INVERT ELEVATION FOR ADEQUATE DEPTH PRIOR TO CONSTRUCTION. CONTRACTOR TO CONNECT NEW SANITARY SEWER LINE TO EXISTING OF EQUAL SIZE OR GREATER. FIELD VERIFY EXACT TIE-IN LOCATION.

COORDINATION NOTES

1. REFER TO JOB SPECIFIC NOTES ON SHEET A-100.
2. MECHANICAL, PLUMBING, AND ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
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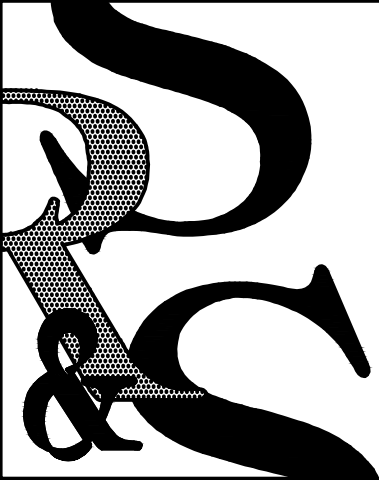


DWV FLOOR PLAN

0 1 2 4 8 SCALE: 3/16" = 1'-0"



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: Sep 26, 2018
2015 INTERNATIONAL CODES & 2017 NEC
RSN: 1222345
Permit #: 18-1529237 LT



SEARER, ROBBINS & STEPHENS, INC.

ARCHITECTURE INTERIORS PLANNING
1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020 (602) 277-1187 FAX (602) 277-9979

DRAWN _____ TE
CHECKED _____ JVK
JOB NO. 1820
DATE AUGUST 1, 2018

REVISIONS



Davita
at
Aurora Dialysis Center Upgrades
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

SHEET NO.

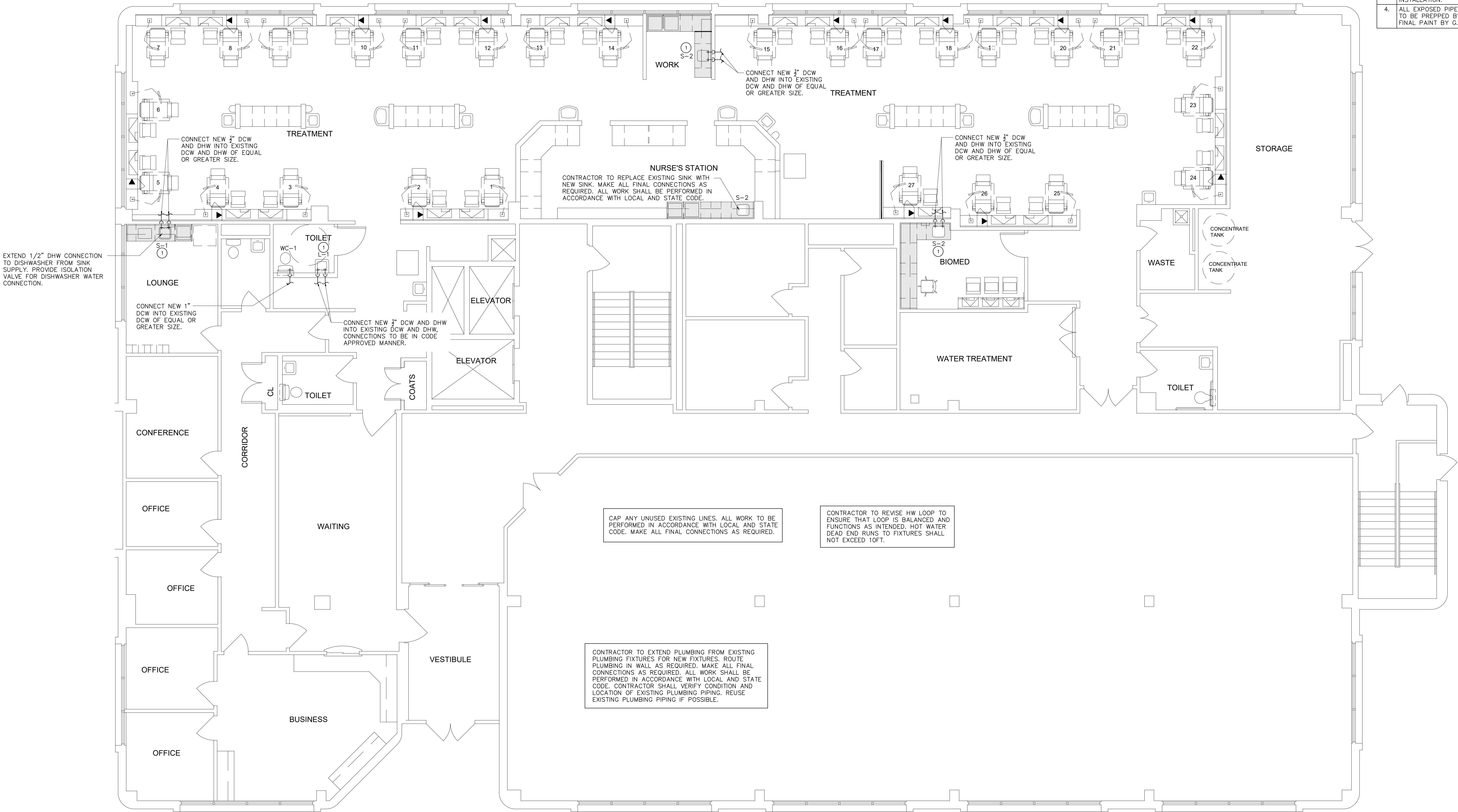
P-2

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KEYNOTES	
1	PROVIDE THERMOSTATIC MIXING VALVE (TMV2) UNDER SINK. REFER TO PLUMBING SCHEDULE FOR MAKES AND MODEL. SET TEMPERATURE TO 105° F.

COORDINATION NOTES

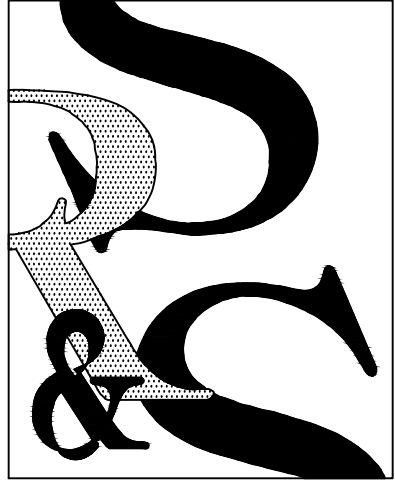
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DOMESTIC WATER PLAN

0 1 2 4 8 SCALE: 3/16" = 1'-0"

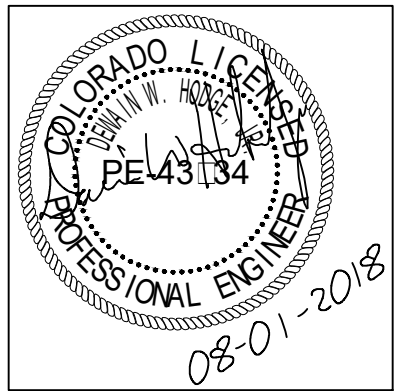
NORTH



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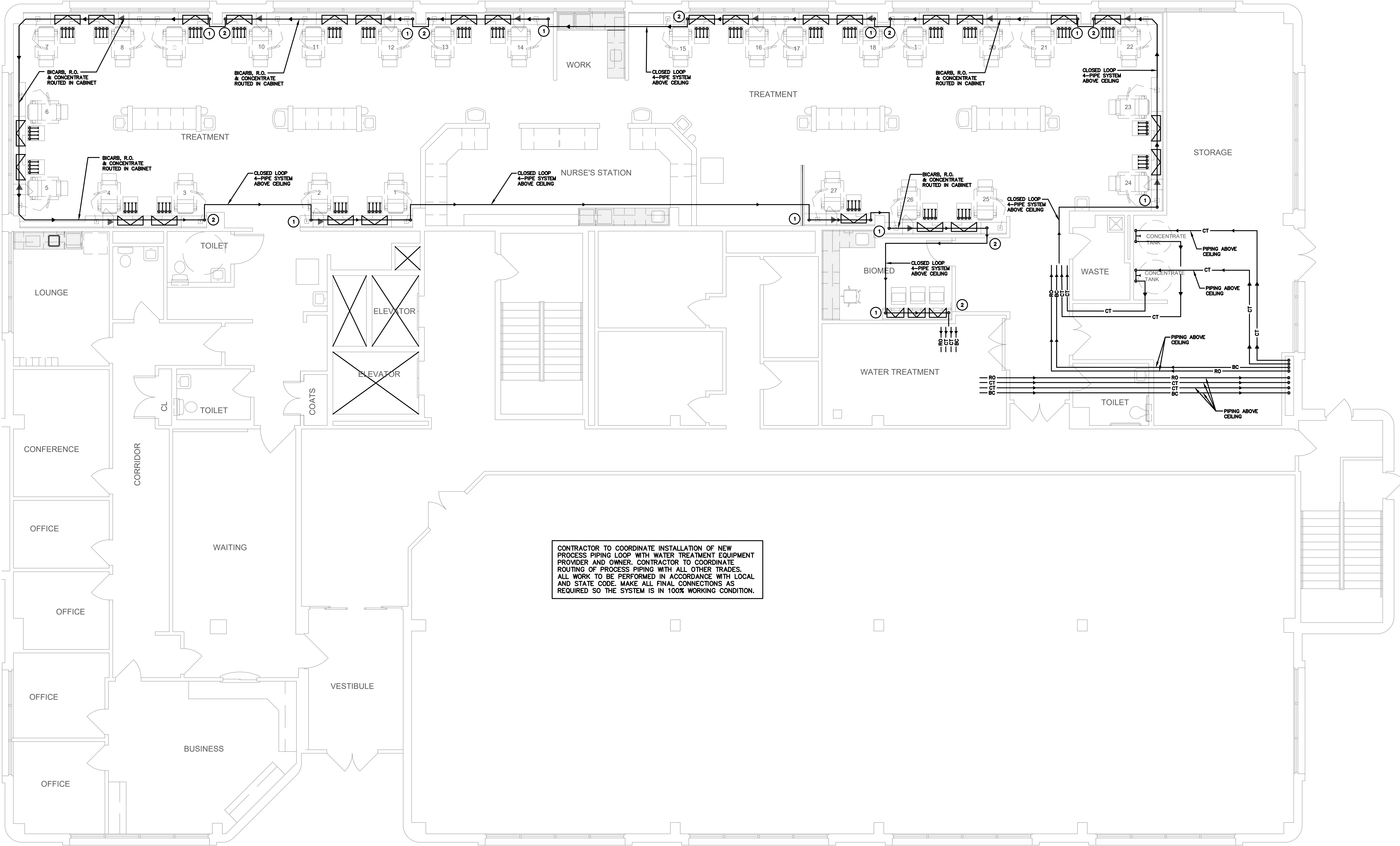
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at
Aurora Dialysis Center Upgrades
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

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Permit #: 18-1529237 LT

SHEET NO.
P-3

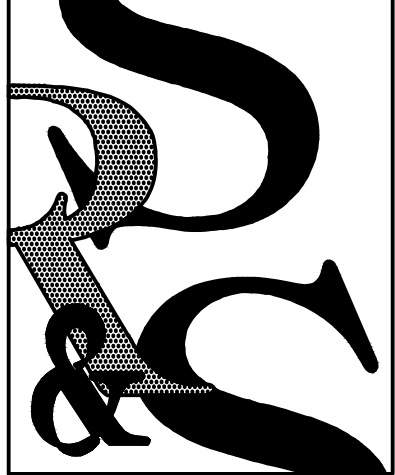


PROCESS PIPING PLAN
0 1 2 4 8
SCALE: 3/16" = 1'-0"
NORTH

KEYNOTES	
1	BICARB, R.O., AND CONCENTRATE LINES DOWN IN WALL FROM CEILING TO CABINET.
2	BICARB, R.O., AND CONCENTRATE LINES UP IN WALL FROM CABINET TO CEILING.

PROCESS PIPING LEGEND	
RO	REVERSE OSMOSIS — 1" INSULATED PEX RO (OFC) WITH CLEANPEX BOX CONNECTION TEE PROVIDED BY WATER TREATMENT EQUIPMENT SUPPLIER.
BC	BICARB — 5/8" BICARB WITH TEE AND 1/4" LABCOCK VALVES (BOX PROVIDED BY DAVITA)
CT	CONCENTRATE — 5/8" CONCENTRATE WITH TEE AND 1/4" LABCOCK VALVE (BOX PROVIDED BY DAVITA)

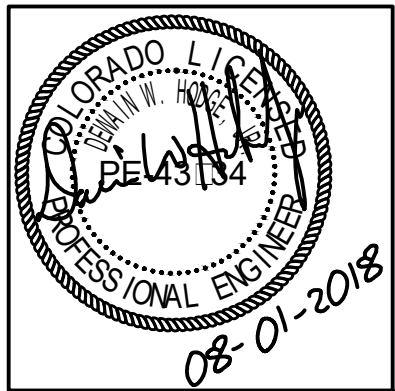
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ARCHITECTURE INTERIORS PLANNING
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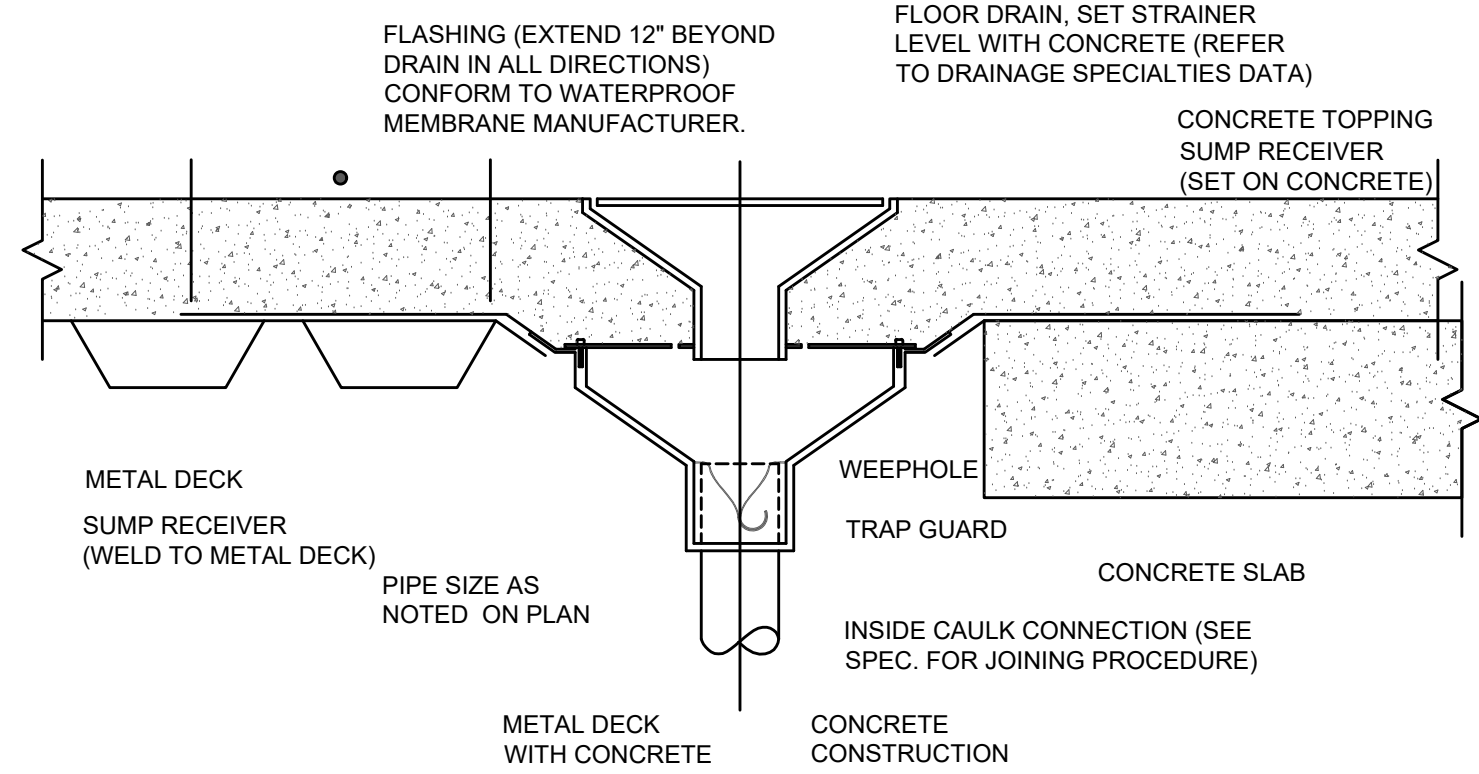


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Aurora, Colorado 80012

SHEET NO.
P-4

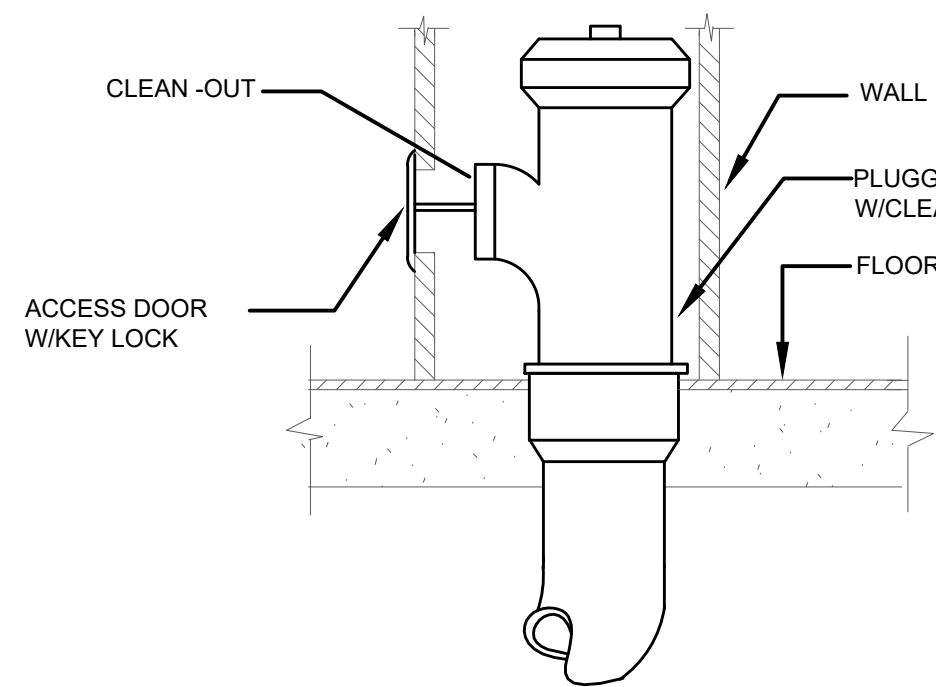
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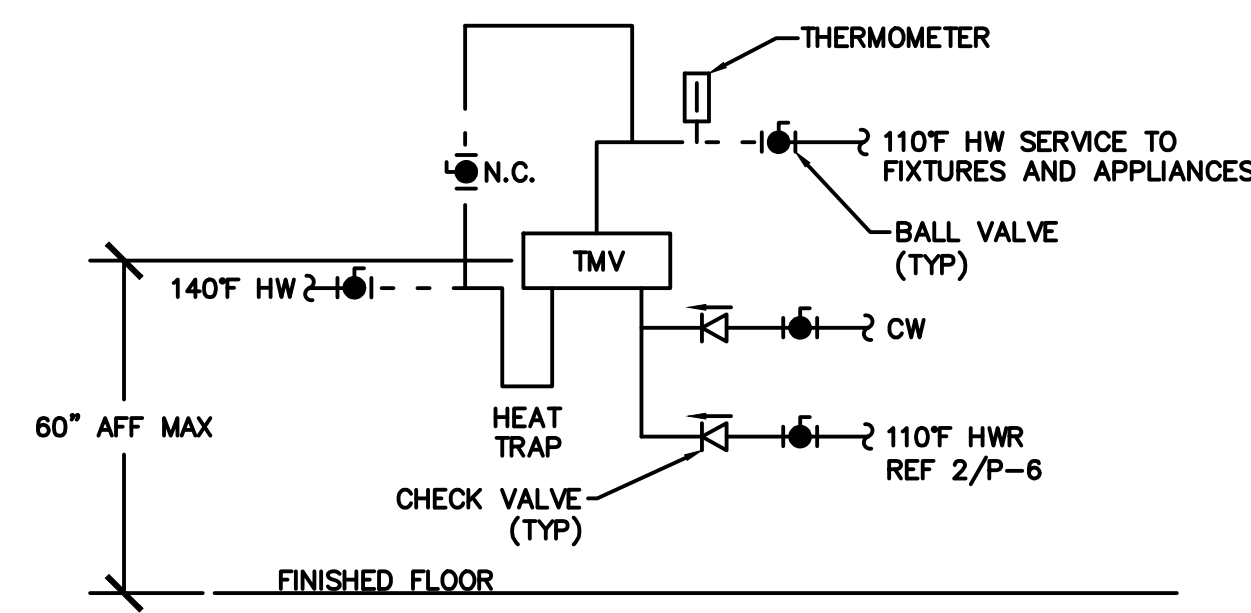
1 FLOOR DRAIN DETAIL

SCALE: N.T.S.



2 WALL/STACK CLEANOUT DETAIL

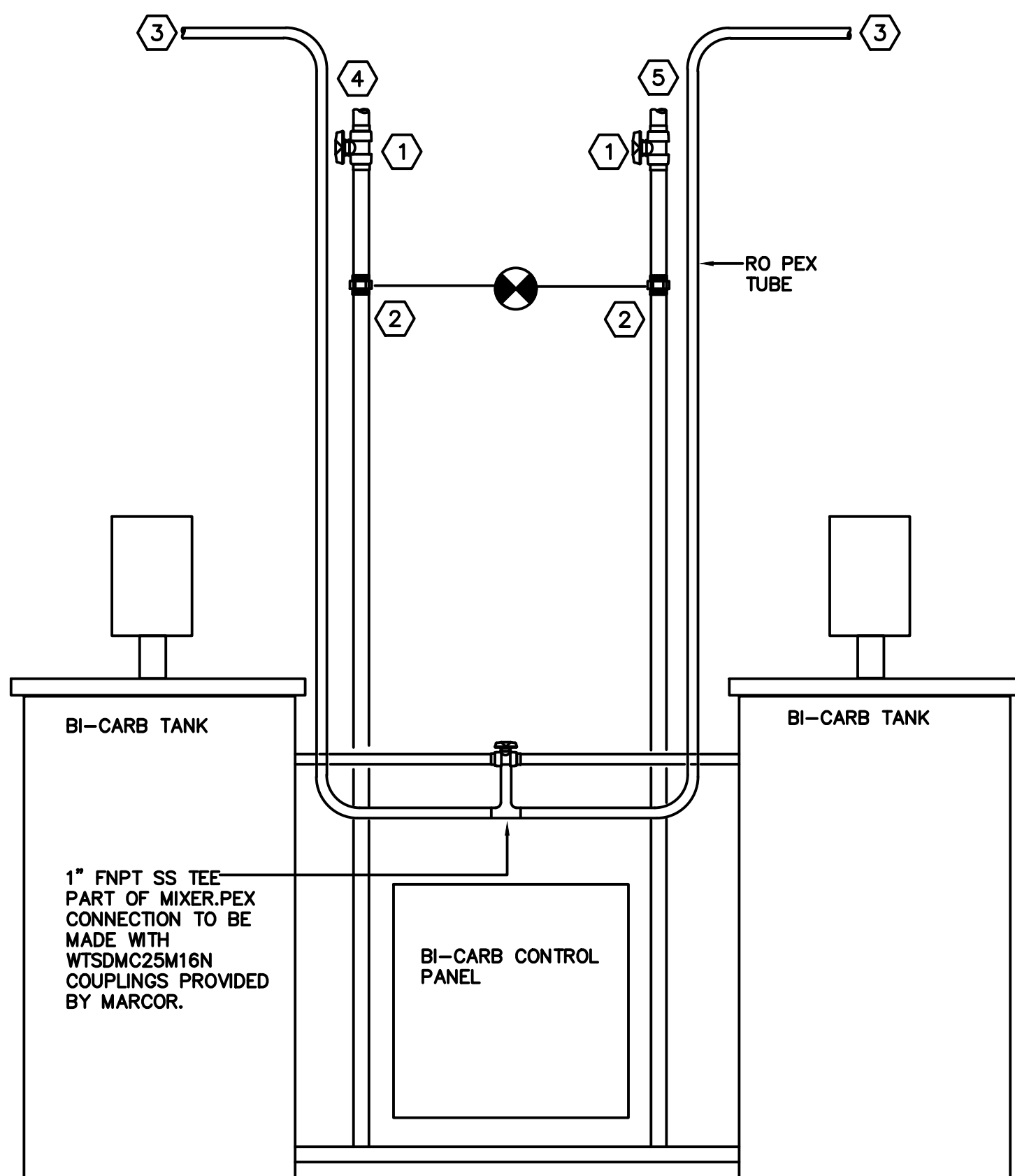
SCALE: N.T.S.



3 WALL MOUNTED TMV

SCALE: N.T.S.

Provide for thermal expansion on hot-water supply system as required by 2015 IPC 607.3 or IRC 2903.4



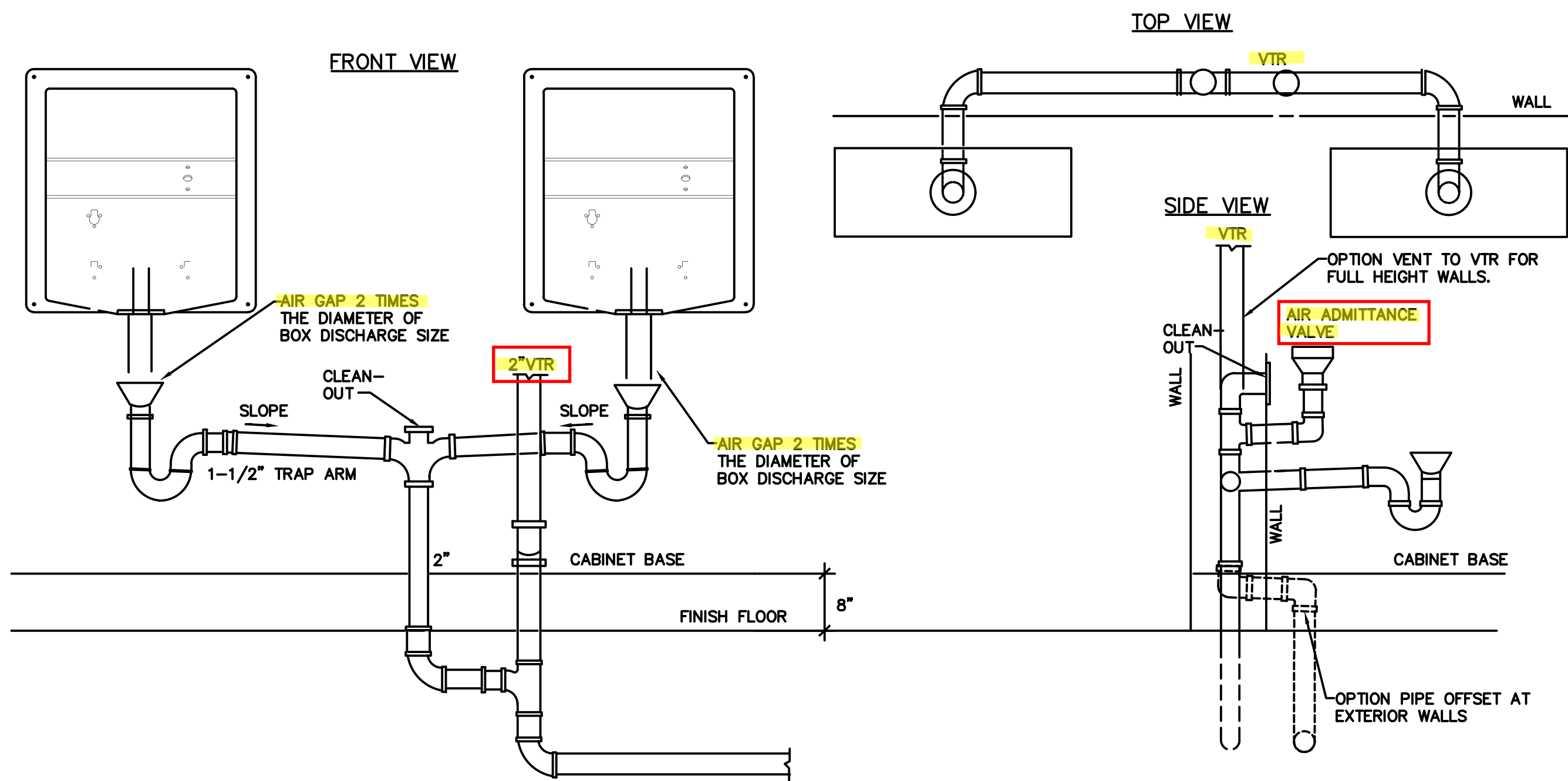
NOTE: DIMENSIONS SHOWN ARE APPROXIMATE. FINAL CONNECTIONS SHOULD BE MADE WHEN EQUIPMENT IS SET AND LEVELED.

DRAWING NOTES:

- 1 3/4"SPACE TRUE UNION BALL VALVE
- 2 3/4" UNION PROVIDED BY EQUIPMENT PROVIDER
- 3 1" RO PEX PIPE LOOP
- 4 5/8" BI-CARB PEX IN
- 5 5/8" BI-CARB PEX OUT

4 CENTRAL BI-CARB R.O. & B.C. CONNECTION DIAGRAM

SCALE: N.T.S.



5 WATER TREATMENT BOX WASTE PIPE

SCALE: N.T.S.

Provide drains no smaller than allowed by 2015 IPC 709.1 and 710.1(1)

The dry vent must rise 6" vertically above the flood level rim of the highest trapped fixture being vented. 2015 IPC 905.4

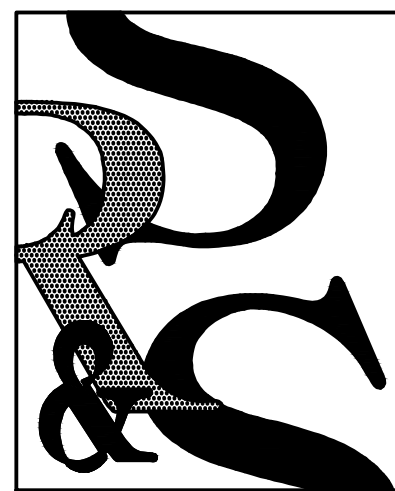
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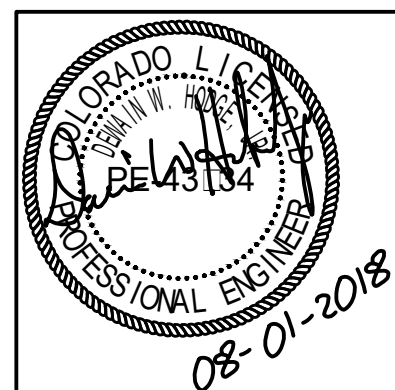


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ARCHITECTURE
1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020
INTERIORS
PLANNING
(602) 277-1187 FAX (602) 277-9978

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
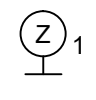
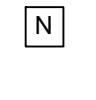

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Aurora Dialysis Center Upgrades
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

SHEET NO.
P-5

LIGHTING FIXTURE SCHEDULE							
QTY.	TYPE	MANUFACTURER/MODEL	DESCRIPTION	LAMP	WATTS	VOLTS	NOTES
1	E	JUNO - TC-22LEDG4-35K-U-BR	6" LED DOWNLIGHT W/EM	LED	18	120	1
1	H	LITHONIA - WL2-25L-D24-LP835-NX	2" SURFACE MOUNTED LIGHT FIXTURE	LED	24	120	
LIGHTING NOTES: 1. FIXTURE UTILIZES AN EMERGENCY BATTERY BACKUP SYSTEM AND SHALL PROVIDE A MINIMUM OF 1 FOOT CANDLE FOR :0 MINUTES OF BACKUP POWER. 2. CONTRACTOR TO WIRE TWO LAMPS TO EMERGENCY BALLAST.							
GENERAL NOTES: A. EC SHALL PROVIDE ALL ACCESSORIES FOR A COMPLETE ASSEMBLY INCLUDING MOUNTING HARDWARE. B. THE MOUNTING TYPE OF EACH FIXTURE SHALL BE COMPATIBLE WITH INSTALLATION SURFACE OF EACH FIXTURE. C. ALL FINISHES SHALL BE COORDINATED WITH ARCHITECT AND DOCUMENTED ON SUBMITTALS. D. PROVIDE BALLAST (EQUAL TO BODINE B50), BATTERIES : CHARGER FOR EMERGENCY OPERATION. E. PROVIDE A COLD WEATHER RATED BALLAST FOR OUTDOOR APPLICATIONS.							

LIGHTING FIXTURES PROVIDED BY DAVITA CED NATIONAL ACCOUNTS. CONTRACTOR TO INSTALL.

CONTRACTOR NOTE:
CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. AND INCLUDE ALL ADDITIONAL COSTS IN THEIR BID. ELECTRICAL CONTRACTOR TO VERIFY AND INFORM THE ARCHITECT / ELECTRICAL ENGINEER OF ANY DISCREPANCIES FOUND IMMEDIATELY.
CONTRACTOR SHALL COORDINATE ALL UTILITY REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID. FURNISH AND/OR INSTALL ALL MATERIAL AND FURNISH ALL LABOR NECESSARY TO COMPLY WITH UTILITY REQUIREMENTS FOR THE UTILITY PRIMARY, SECONDARY AND METERING.

NURSE CALL SYSTEM	
CONTRACTOR SHALL PROVIDE A COMPLETE SYSTEM FROM CORNELL AS SPECIFIED. ALTERNATE MANUFACTURERS FOR NURSE CALL SYSTEM WILL NOT BE ACCEPTED.	
TRANSFORMER, ANNUNCIATOR STATION, PULL SWITCHES, AND EMERGENCY CALL LIGHTS TO BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. LABEL ANNUNCIATOR STATION EMERGENCY CALL LIGHTS ACCORDING TO LOCATION OF CORRESPONDING PULL SWITCH (USE ROOM NAME AND NUMBER). POWER SUPPLY SHALL BE CORNELL P-5122K3A.	
	LOCAL ALARM: CORNELL LS-201 STROBE/SOUNDER WITH COLOR INDICATED. PROVIDE BOOTS FOR EACH ZONE WITH COLORS INDICATED BELOW: 1 - CORNELL 4720-005, YELLOW, WAITING/WAITING TLT - NOT USED 2 - CORNELL 4720-003, BLUE, EXAM ROOM - NOT USED 3 - CORNELL STANDARD, WHITE, TREATMENT ROOM TLT 4 - CORNELL 4720-001, RED, PD/HOME TREATMENT - NOT USED 5 - CORNELL 4720-002, GREEN, HUDDLE ROOM - NOT USED 6 - CORNELL 4720-004, AMBER, PRIVATE - NOT USED
	ZONE ALARM: CORNELL LS-201 STROBE/SOUNDER WITH COLOR INDICATED. PROVIDE SAME COLOR AS LOCAL STROBES.
	CORNELL E-104-1 PULL STRING STATION, WIRE TO LOCAL STROBE AND ZONE STROBE OF SAME COLOR LOCATED IN PATIENT TREATMENT AREA. PROVIDE CORNELL SP-ST PULL RIBBON.
	CORNELL 4000 SERIES ANNUNCIATOR, ANNUNCIATOR IN PATIENT TREATMENT AREA SHALL BE CONNECTED TO ALL ALARMS IN THE BUILDING.

Code violations that are found during inspection are required to be corrected. Permit issuance does not grant approval of a code violation.

GENERAL NOTES	
1.	ALL ELECTRICAL CONDUIT, DEVICES AND EQUIPMENT ARE SHOWN DIAGRAMMATICALLY. DO NOT SCALE. CONTRACTOR SHALL FIELD VERIFY ACTUAL LOCATION PRIOR TO ANY ROUGH IN.
2.	ALL CIRCUITS SHALL BE MINIMUM #12 THHN/THWN COPPER W/12 COPPER BOND IN 1/2" CONDUIT UNLESS NOTED OTHERWISE. ALL CONDUCTORS, REGARDLESS OF SIZE SHALL BE 75°C RATED, THHN OR XHHW. ALL WIRING SHALL BE IN METAL CONDUIT WITH N.E.C. SIZED BONDING CONDUCTORS UNLESS NOTED OTHERWISE.
3.	CONTRACTOR SHALL COORDINATE ALL DEVICE FINISHES PRIOR TO PURCHASING ANY EQUIPMENT. CONFIRM THE EXACT CEILING TYPE PRIOR TO ORDERING ANY FIXTURES.
4.	FURNISH AND INSTALL ALL ELECTRICAL WIRING, RACEWAYS, OUTLET AND JUNCTION BOXES, MOTOR STARTERS, DISCONNECT AND CONTROLS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS, UNLESS NOTED OTHERWISE. VERIFY EQUIPMENT REQUIREMENTS PRIOR TO BID.
5.	ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION. THE PRODUCT OF SUBSTANTIALLY ESTABLISHED AND RECOGNIZED MANUFACTURERS.
6.	AS A MINIMUM REQUIREMENT ALL WORK SHALL COMPLY WITH THE LATEST ACTIVE OR ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE, STATE OR LOCAL ELECTRICAL CODES, AND THE REQUIREMENTS OF THE POWER COMPANY. WHERE CONFLICTS OCCUR THE MORE STRINGENT OR THE CODE ENFORCED BY THE AUTHORITY HAVING JURISDICTION SHALL APPLY.
7.	CONTRACTOR SHALL COORDINATE AND MAKE FINAL CONNECTIONS FOR MECHANICAL EQUIPMENT. SIZE ALL FUSES/CIRCUIT BREAKERS PROTECTING MECHANICAL EQUIPMENT PER EQUIPMENT MANUFACTURERS RECOMMENDATIONS.
8.	ALL WIRING DEVICES SHALL BE U.L. APPROVED, OF THE TYPE AND NUMBER SHOWN ON THE DRAWINGS. ALL NEW RECEPTACLES : SWITCHES SHALL BE 20 AMP, SPECIFICATION GRADE. DEVICES RATED AT 120V OR 277V AS NECESSARY. UNLESS SPECIFICALLY NOTED OTHERWISE, THE CONTRACTOR SHALL PROVIDE DEVICE : DEVICE PLATE TYPES AND COLORS AS SPECIFIED IN SPECIFICATION. PROVIDE ADHESIVE TAPE LABEL ON ALL DEVICE COVERPLATES INDICATING PANELBOARD AND CIRCUIT NUMBER.
9.	PLAN AND INSTALL ALL ELECTRICAL WORK IN SUCH A MANNER AS TO PREVENT OBSTRUCTIONS, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. CONSULT GENERAL CONTRACT DRAWINGS FOR CONDITIONS AFFECTING THIS WORK AND VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. NOTIFY ENGINEER IMMEDIATELY OF POSSIBLE CONFLICTS, WHERE INTERFERENCES WITH STRUCTURAL, MECHANICAL OR OTHER FEATURES EXIST, OR WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS AND ARRANGEMENT OF INDICATED EQUIPMENT, CONDUIT, OUTLETS OR WIRING. CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT EXTRA COST TO OWNER.
10.	IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE DRAWINGS AND EXISTING PREMISES PRIOR TO BIDDING. NO SUBSEQUENT ALLOWANCES WILL BE MADE FOR NOT BEING KNOWLEDGEABLE OF EXISTING CONDITIONS.
11.	NEW CONDUIT OR EXISTING CONDUIT WHICH MUST BE MODIFIED, WITHIN THE SCOPE OF THIS PROJECT SHALL NOT BE ATTACHED TO NOR SUPPORTED BY ANY WIRE OR CABLE WHICH IS USED TO SUSPEND THE CEILING GRID. NEW CONDUIT SUPPORTS OR SUPPORT WIRES AND APPROVED SUPPORTING DEVICES SHALL BE PROVIDED AS NECESSARY.
12.	CONTRACTOR SHALL NOT INTERRUPT OR REMOVE ANY EXISTING CIRCUITS OR EQUIPMENT UNLESS NOTED OTHERWISE ON PLANS. ANY DAMAGED OR DISRUPTED CIRCUITS OR EQUIPMENT SHALL BE RESTORED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO OWNER, ARCHITECT OR ENGINEER.
13.	CONTRACTOR SHALL FIELD VERIFY SOURCE OF ALL EXISTING AND NEW LIGHTING AND POWER CIRCUITS, BY PANEL AND BREAKER NUMBERS FOR AREAS WITHIN SCOPE OF THIS PROJECT. PRIOR TO CONSTRUCTION CLOSE OUT PROVIDE A NEATLY TYPED PERMANENTLY ATTACHED PANEL INDEX, TO IDENTIFY EACH CIRCUIT, USE, AND AREA SERVED, (I.E.: #1 RECEIPT, RM. 100).
14.	CONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATIONS WITH THE OTHER TRADES.

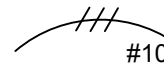
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ELECTRICAL LEGEND

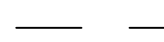
ABBREVIATIONS

AC	ABOVE COUNTER	NIC	NOT IN CONTRACT.
AFF	ABOVE FINISHED FLOOR.	NL	NIGHT LIGHT.
CB	CIRCUIT BREAKER.	PH	PHOTOELECTRIC SWITCH
EP	EXPLOSION PROOF.	PP	POWER PANEL.
GFI	GROUND FAULT CIRCUIT INTERRUPTER.	RP	RECEPTACLE PANEL.
GND	GROUND.	UG	UNDERGROUND.
HP	HORSEPOWER.	UNO	UNLESS OTHERWISE NOTED.
LP	LIGHTING PANEL.	WP	WEATHER PROOF.
MCC	MOTOR CONTROL CENTER.		
MH	MOUNTING HEIGHT, MANHOLE.		
NEC	NATIONAL ELECTRICAL CODE.		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSO.		

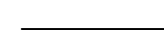
WIRING

 #10

WIRING CONCEALED IN CEILING OR WALLS: SLASH MARKS INDICATE NUMBER OF CONDUCTORS EXCLUDING GROUNDS: CONDUCTOR SIZE AS MARKED: #12 AWG UON.





UNDERGROUND CABLE OR DUCT: TYPE, SIZE, CONDUCTORS, AND ARRANGEMENT BY NOTATION OR SCHEDULE.



WIRING RUN EXPOSED.

SWITCHES

 SWITCH OUTLET: MOUNTED 42" TO CENTERLINE AFF UON: SINGLE POLE UON: LOWER CASE LETTER, WHEN PRESENT, INDICATES FIXTURES CONTROLLED.

 ABBREVIATIONS FOR SWITCH OUTLETS

P PILOT SWITCH

3 3-WAY SWITCH


4 4-WAY SWITCH


TS TIMER SWITCH

LV1, LV2, LV3 LOW VOLTAGE SWITCH


OS WATTSTOPPER PW-101 OR EQUIVALENT OCCUPANCY SWITCH


M MOTOR STARTER SWITCH


 WATTSTOPPER DT-355 OR EQUIVALENT CEILING OCCUPANCY SENSOR


 EMERGENCY NURSE CALL PULL STATION


RECEPTACLES


 GROUNDED DUPLEX RECEPTACLE (NEMA 5-20R): MOUNTED 20" AFF UON: NUMBER INDICATES CIRCUIT.


 GROUNDED DUPLEX RECEPTACLE (NEMA 5-20R): MOUNTED 6" ABOVE COUNTERTOP TO CENTERLINE.


 SPLIT WIRED GROUNDED DUPLEX RECEPTACLE (NEMA 5-20R): MOUNTED 18" AFF UON.


 GFI RECEPTACLE










 GROUNDED SINGLE RECEPTACLE (NEMA 5-20): MOUNTED 18" AFF UON.

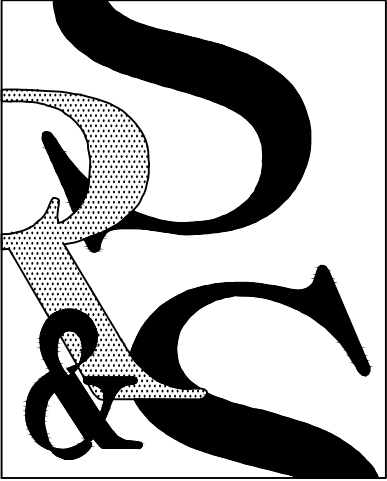
 GROUNDED QUADRUPEX RECEPTACLE (NEMA 5-20R): MOUNTED 18" AFF UON.

 ISOLATED GROUND RECEPTACLE MOUNTED 20" AFF UON.

 SPECIAL PURPOSE RECEPTACLE: LETTER INDICATES TYPE: TYPE DEFINED BY NOTATION OR SCHEDULE: MOUNTED 18" AFF UON.

 FLOOR BOX: SEE ARCHITECTURAL PLANS FOR LOCATION. FLOOR BOX WITH DATA: HUBBELL SYSTEM ONE S1PFB SERIES. S1CF6 COVER AND S1SPDU2M FACEPLATE. COORDINATE REQUIREMENTS FOR DATA AND ANY CONNECTION ACCESSORIES WITH THE OWNERS REP. ROUTE A 1-1/2" CONDUIT FROM THE FLOOR BOX IN THE WALL TO THE TV AND TERMINATE IN A 4:4 BOX WITH A PULL STRING.

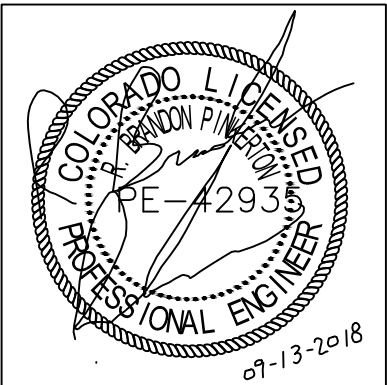
ELECTRICAL LEGEND	
PANELS AND MISC.	
	LIGHT OR POWER PANEL
	JUNCTION BOX
	PHONE AND DATA OUTLET - WALL MOUNTED 20" AFF. PROVIDE 4X4 OUTLET BOX IN WALL WITH SINGLE GANG MUD RING. ROUTE ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL WIRE. WIRING BY OTHERS.
	PHONE AND DATA OUTLET - WALL MOUNTED ABOVE COUNTER. PROVIDE 4X4 OUTLET BOX IN WALL WITH SINGLE GANG MUD RING. ROUTE ONE 1" CONDUIT TO ABOVE ACCESSIBLE CEILING WITH PULL WIRE. WIRING BY OTHERS.
	ANY CABLE OUTLET. WHERE TV IS SHOWN NEXT TO DUPLEX OUTLET MOUNT DEVICES PER PLAN OUTLET SHALL BE CLOCK TYPE RECEPTACLE.
	SPECIAL RECEPTACLE. COORDINATE CONFIGURATION WITH EQUIPMENT VENDOR
	DISCONNECT SWITCH
	ELECTRIC METER
	MANUAL TRANSFER SWITCH



SEARER, ROBBINS & STEPHENS, INC.
ARCHITECTURE
1700 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020
(602) 277-1187
(602) 277-9979
PLANNING
INTERIORS
ELECTRICAL ONE-LINE & NOTES

DRAWN _____ VS/TE
CHECKED _____ JB/JVK
JOB NO. _____ 1820
DATE AUG. 20, 2018

REVISIONS



DaVita
Aurora Dialysis Center Upgrades
at
1411 South Polk Street, Suite 100
Aurora, Colorado 80012

SHEET NO.
E-1

ELECTRICAL WATER TREATMENT EQUIPMENT KEYNOTES		ELECTRICAL WATER TREATMENT EQUIPMENT KEYNOTES		ELECTRICAL WATER TREATMENT EQUIPMENT KEYNOTES	
1	PRE-TREATMENT EQUIPMENT. CIRCUIT BREAKER AT THE PANEL/BREAKER BOX FOR CIRCUIT A-2 A 120 VAC, 20 AMP-GFI BREAKER. RECEPTACLES (DUPLEX) ARE HOSPITAL GRADE, 120 VAC, 20 AMP, HEAVY DUTY, GROUNDED, (NOT GFI) MOUNTED 72 INCHES AFF.	5	REMOTE ALARM WIRE (SUPPLIED BY CONTRACTOR) PULLED FROM THIS AREA TO REMOTE ALARM LOCATION ON TREATMENT FLOOR BY ELECTRICAL CONTRACTOR (WIRE PULLED BY CONTRACTOR). WIRE TO BE BELDON PIN 650-UE OR EQUIVALENT. A 12 CONDUCTOR, 22 GAUGE, STRANDED WIRE. WIRE INSULATION TO MEET LOCAL CODE REQUIREMENTS. IF CONDUIT IS REQUIRED EACH END OF THE CONDUIT TO BE TERMINATED WITH A 2 INCH X 4 INCH BOX WITH 15 FOOT WHIP FOR FUTURE TERMINATION. TERMINATION LOCATION IN PATIENT TREATMENT FLOOR AREA TO BE DETERMINED BY OTHERS.	9	NOT USED
2	POST TREATMENT SKID. CIRCUIT BREAKER AT THE PANEL/BREAKER BOX FOR CIRCUIT A-4 IS A 120 VAC, 20 AMP-GFI BREAKER. RECEPTACLES (FOURPLEX) ARE HOSPITAL GRADE, 120 VAC, 20 AMP, HEAVY DUTY, GROUNDED, (NOT GFI) MOUNTED 78 INCHES AFF.	6	NOT USED	10	NOT USED.
3	RO DISCONNECT SWITCH. A 60 AMP DISCONNECT SWITCH INSTALLED WITH A STANDARD GROUNDED 5 WIRE CIRCUIT (L1, L2, L3, N, GND) RATED AT 208 VAC, EQUIPPED WITH 40 AMP SLOW BLOW FUSING, 8 AWG WIRE, THREE PHASE. THE SWITCH IS TO BE MOUNTED AT 72 INCHES AFF TO CENTER OF ENCLOSURE.	7	NOT USED	11	BOOSTER PUMP ELECTRICAL RECEPTACLE. HUBBELL 2320 RECEPTACLE OR NEMA L6-20R EQUIVALENT ON A DEDICATED CIRCUIT, 208/230V, 1PH, 60HZ, 1.5HP, MOUNTED AT 72" AFF.
4	NOT USED.	8	NOT USED	12	JUNCTION BOX FROM THE RO DISCONNECT SWITCH. WIRES FROM RO DISCONNECT SWITCH TO JUNCTION BOX PULLED BY ELECTRICAL CONTRACTOR. THE JUNCTION BOX IS TO BE MOUNTED AT 78 INCHES AFF TO CENTER OF ENCLOSURE.

COORDINATION NOTES	
1.	REFER TO JOB SPECIFIC NOTES ON SHEET A-0.0.
2.	ELECTRICAL SUBCONTRACTORS ARE REQUIRED TO COORDINATE WITH EACH OTHER AND TO REFER TO ALL SHEETS IN THE SET FOR CONSTRUCTION CONDITIONS, NOT JUST THE DRAWINGS PERTAINING TO THEIR DISCIPLINE.
3.	FINAL LOCATION OF ALL SURFACE FEATURES ARE TO BE VERIFIED WITH ARCHITECTURAL DRAWINGS AND/OR ARCHITECT PRIOR TO INSTALLATION.
4.	ALL EXPOSED PIPE, CONDUIT TO BE PREPPED BY TRADE FOR PRIME AND FINAL PAINT BY G.C. SEE ARCHITECTURAL SPECIFICATIONS.

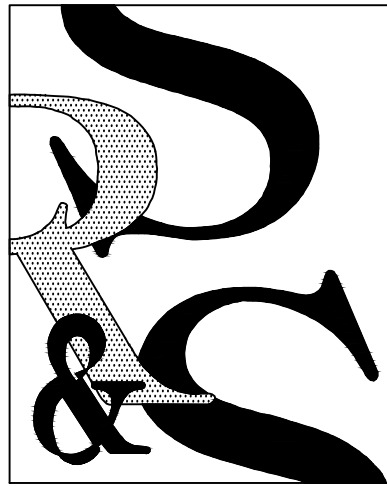
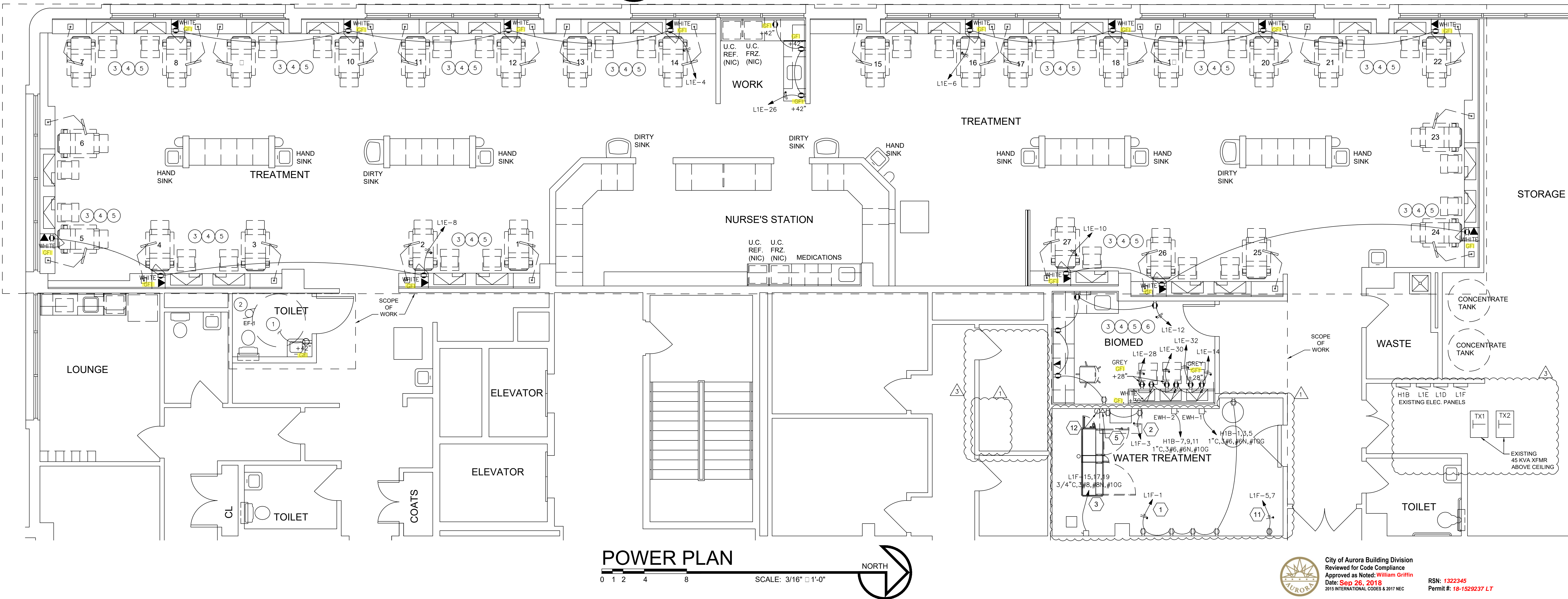
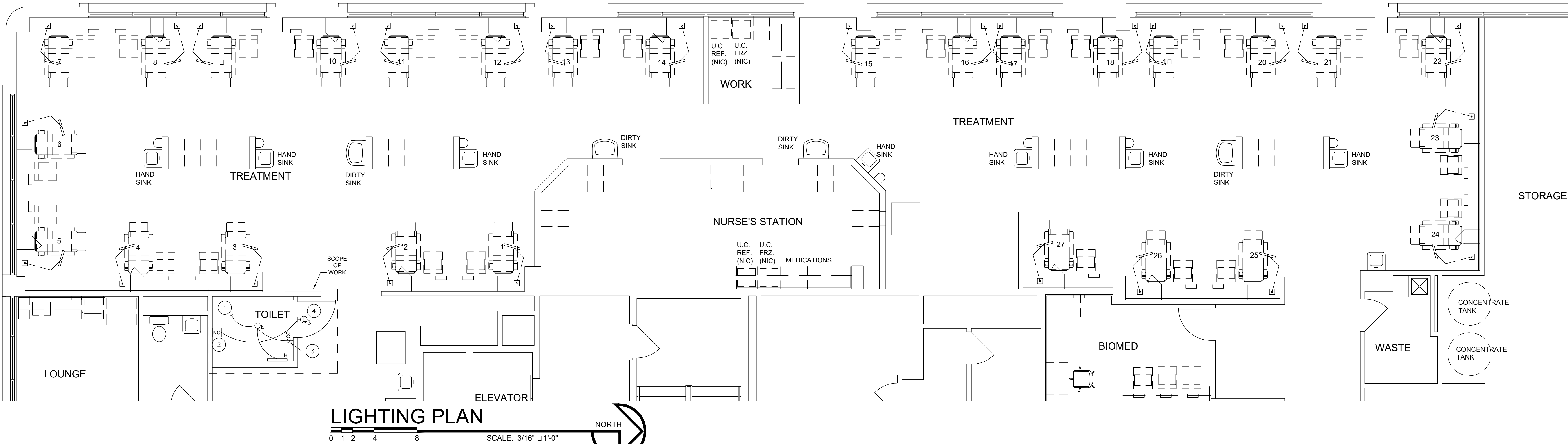
Install electrical connections per 2017 NEC 110.14, identify disconnects per 2017 NEC 110.22 and provide working space around electrical equipment per 2017 NEC 110.26.

Wiring in air handling spaces must comply with 2017 NEC 300.22. Firestop penetrations per 2017 NEC 300.21. Secure and support equipment per 2017 NEC 300.11.

Locate the required overcurrent protection per 2017 NEC 240.21

LIGHTING PLAN KEYNOTES #	
1	CONTRACTOR TO USE EXISTING LIGHTING CIRCUIT TO PROVIDE POWER TO NEW RESTROOM LIGHTING. PROVIDE NEW CONTROLS AS PER LIGHTING PLAN.
2	COORDINATE EMERGENCY PULL CORD LOCATION WITH ARCHITECT BEFORE INSTALLATION. REFER TO NURSE CALL DIAGRAM FOR ADDITIONAL WIRING INFORMATION.
3	PROVIDE A TWO POLE OCCUPANCY SWITCH TO FACILITATE CONTROL OF EF.
4	THE ROOM NURSE CALL EMERGENCY LIGHT FIXTURE "L" SHALL BE MOUNTED ABOVE THE DOOR HEADER OR IN CEILING AS SHOWN ON PLAN.

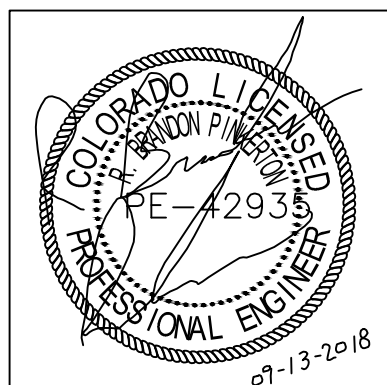
POWER PLAN KEYNOTES #	
1	CONTRACTOR TO USE EXISTING CIRCUIT TO PROVIDE POWER TO NEW RESTROOM RECEPTACLE. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED.
2	RESTROOM EXHAUST FAN TO BE INTERLOCKED WITH RESTROOM LIGHTING CIRCUIT FOR POWER AND CONTROLS. REFER TO MECHANICAL PLANS FOR MORE INFORMATION. COORDINATE WITH OWNER FOR ANY FURTHER CLARIFICATION AND CONTROLS REQUIREMENTS.
3	WIRING IN PATIENT CARE AREAS (TREATMENTS, AND BIOMED ROOMS) ARE TO COMPLY WITH LATEST LOCAL ADOPTED N.E.C. 517.13(A) - (B).
4	HOSPITAL GRADE RECEPTACLE(S) TO BE WIRED DOWNSTREAM OF GFI WHITE RECEPTACLE. E.C. TO ENSURE DOWNSTREAM RECEPTACLE(S) ARE GFCI PROTECTED BY THE UPSTREAM GFI WHITE DEVICE.
5	CONTRACTOR SHALL CONFIRM TO THE REDUNDANT GROUNDING REQUIREMENTS IN GENERAL PATIENT CARE AREAS PER NEC 517.13.
6	OUTLET FOR DIALYSIS MACHINE TO BE PERMANENTLY ENGRAVED WITH PANEL AND CIRCUIT INFORMATION. COORDINATE WITH OWNER FOR MORE INFORMATION.



SEARER, ROBBINS & STEPHENS, INC.
ARCHITECTURE INTERIORS PLANNING
1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020 (602) 277-1187 FAX: (602) 277-8979
ELECTRICAL POWER PLAN

DRAWN _____ VS/TE
CHECKED _____ JB/JVK
JOB NO. 1820
DATE AUG. 20, 2018

REVISIONS
1. OWNER CHANGES 08/28/18
2. CITY COMMENTS 09/13/18



DaVita
Aurora Dialysis Center Upgrades
at
1411 South Polanco Street, Suite 100
Aurora, Colorado 80012

SHEET NO.
E-2



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: Sep 26, 2018
2015 INTERNATIONAL CODES & 2017 NEC

RSN: 1322345
Permit #: 18-1529237 LT

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H1B

ROOM		VOLTS 480Y/277V 3P 4W				AIC=14,000									
MOUNTING SURFACE		BUS AMPS=400				MAIN BKR MLO									
FED FROM UTILITY		NEUTRAL 100				LUGS STANDARD									
NOTE															
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD		
		A	B	C						A	B	C			
1	50/3	ELEC. WATER HEATER -1			4			2	20/1	space			0		
3					4	4		4	20/1	space				0	
5							4	6	20/1	space					0
7	50/3	ELEC. WATER HEATER -2			4			8	60/3	e-listing - 45 □a XFMR			14.7		
11					4	4		12					14.7		
13	20/1	e-listing lig. ting			0.5			14	20/1	SPACE			0		
15	20/1	e-listing lig. ting				0.8		16	20/1	e-listing nig.1 □ts				0.5	
17	20/1	e-listing lig. ting					0.65	18	20/1	e-listing lig. ting					0.7
19	20/1	SPACE			0			20	60/3	e-listing - 45 □a XFMR			10.4		
21	20/1	SPACE				0		22							
23	20/1	SPACE					0	24							
25	20/1	SPACE			0			26	20/1	SPACE			0		
27	20/1	SPACE				0		28	20/1	SPACE				0	
29	20/1	SPACE					0	30	20/1	SPACE			0		
31	20/1	SPACE						32	20/1	SPACE			0		
33	20/1	SPACE			0	0		34	20/1	SPACE				0	
35	20/1	SPACE					0	36	20/1	SPACE					0
37	20/1	SPACE						38	20/1	SPACE			0		
39	20/1	SPACE			0			40	20/1	SPACE				0	
41	20/1	SPACE				0		42	20/1	SPACE					0

L1F

ROOM		VOLTS 208Y/120V 3P 4W				AIC=10,000				
MOUNTING SURFACE		BUS AMPS=200				MAIN BKR MLO				
FED FROM TX2		NEUTRAL 100				LUGS STANDARD				
NOTE										
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD			KVA LOAD		
A	B	C	CKT #	CKT BKR	A	B	C	A	B	C
1	20/1	PRE-TRMT RECEPS (6)	0	2	20/1	e-listing	0.18			
3	20/1	POST-TRMT RECEPS (6)	0.36	4	20/1	e-listing		0.1		
5	20/2	BOOSTER PUMP (6)	1.04	6	20/1	e-listing			0.2	
7			1.04	8	20/1	e-listing	0.05			
11	20/1	e-listing	0.18	10	20/1	e-listing	0.48			
13	20/1	e-listing	0.2	12	20/1	e-listing		0.5		
15	40/3	RO MACHINE	3.33	14	20/1	e-listing	0.72			
17			3.33	16	20/1	e-listing	0.18			
19			3.33	18	20/1	e-listing		0.72		
21	20/1	e-listing spare	0	20	20/1	e-listing	0.1			
23	20/1	e-listing	0.4	22	20/1	e-listing	0.36			
25	20/1	e-listing	0.4	24	20/1	SPACE	0		0.8	
27	20/1	e-listing	0.5	26	20/1	SPACE	0			
29	20/1	e-listing	0	28	20/1	SPACE	0	0		
31	20/1	SPACE	0	30	20/1	SPACE	0	0	0	
33	20/1	SPACE	0	32	20/1	SPACE	0			
35	20/1	SPACE	0	34	20/1	SPACE	0	0		
37	20/1	SPACE	0	36	20/1	SPACE	0			
39	20/1	SPACE	0	38	20/1	SPACE	0	0		
41	20/1	SPACE	0	40	20/1	SPACE	0			
				42	20/1	SPACE	0	0		
TOTAL CONNECTED KVA BY PHASE							6.2	5.4	7.6	
		CONN. KVA	CALC. KVA		CONN. KVA		CALC. KVA			
LIGHTING		0	0	(125)	CONTINUOUS		0	0	(125)	
LARGEST MOTOR		0	0	(125)	HEATING		0	0	(100)	
OTHER MOTORS		0	0	(100)	NONCONTINUOUS		0	0	(100)	
RECEPTACLES		11.3	14.7	(50)(10)	KITCHEN EQUIP		0.8	0.8	(100)	
					NONCON/INDIVERSE		0	0	(N/A)	
					TOTAL KVA		20.1	15.5		
BALANCED THREE PHASE AMPS 42										

L1D

ROOM		VOLTS 208Y/120V 3P 4W			AIC=10,000		
MOUNTING SURFACE		BUS AMPS=200			MAIN BKR=150		
FED FROM UTILITY		NEUTRAL 100			LUGS STANDARD		
NOTE EXISTING PANEL WITH NO ADDITIONAL WORK							
CKT #	CKT BKR	CIRCUIT DESCRIPTION			KVA LOAD		
A	B	C	CKT #	CKT BKR	CIRCUIT DESCRIPTION		
A	B	C	A	B	C		
1	20/1	e-listing toilet re-aps	0.36	2	20/1	e-listing e-aust an	0.25
3	20/1	e-listing sensor re-aps	0.3	4	20/1	e-listing cor-area re-aps	0.72
5	20/1	SPACE	0	6	20/1	e-listing cor-area re-aps	0.72
7	20/1	e-listing sensor re-aps	0.3	8	20/1	e-listing reuse re-aps	0.72
9	20/1	e-listing nurse re-aps	0.54	10	20/1	e-listing reuse re-aps	0.72
11	20/1	e-listing nurse re-aps	0.54	12	20/1	e-listing ed re-aps	0.54
13	20/1	e-listing nurse re-aps	0.54	14	20/1	e-listing ed re-aps	0.54
15	20/1	e-listing re-aps	0.54	16	20/1	e-listing nurse re-aps	0.72
17	20/1	e-listing nurse re-aps	0.72	18	20/1	e-listing cor-area re-aps	0.72
19	20/1	e-listing copier	0.5	20	20/1	e-listing cor-area re-aps	0.72
21	20/1	e-listing re-aps	0.54	22	20/1	e-listing cor-area re-aps	0.72
23	20/1	e-listing cor-area re-aps	0.72	24	20/1	e-listing nurse re-aps	0.72
25	20/1	e-listing re-aps	0.72	26	20/1	e-listing re-aps	1
27	20/1	e-listing re-aps	0.72	28	20/1	e-listing re-aps	1
29	20/1	SPACE	0.4	30	20/1	SPACE	0
31	20/1	e-listing tele-sion re-aps	0.4	32	20/1	SPACE	0
33	20/1	e-listing calling re-aps	0.72	34	20/1	SPACE	0
35	20/1	e-listing lounge re-aps	0.54	36	20/1	e-listing nurse re-aps	0.72
37	20/1	e-listing lounge re-aps	0.54	38	20/1	e-listing lounge re-aps	0.72
39	20/1	e-listing lounge re-aps	0.72	40	20/1	e-listing lounge re-aps	0.72
41	20/1	e-listing lounge disposal	0.5	42	20/1	e-listing lounge re-aps	0.8
					TOTAL CONNECTED KVA BY PHASE		
					A	B	C
					7.07	0.04	7.6
		CONN. KVA	CALC. KVA			CONN. KVA	CALC. KVA
LIGHTING		0	0 (125)	CONTINUOUS		0	0 (125)
LARGEST MOTOR		0.5	0.625 (125)	HEATING		0	0 (100)
OTHER MOTORS		0.25	0.25 (100)	NONCONTINUOUS		0	0 (100)
RECEPTACLES		23.3	16.7 (50-110)	KITCHEN EQUIP		0 (N/A)	0 (N/A)
				NONCON/INVERSE		0	0 (N/A)
				TOTAL KVA		24.1	17.5
				BALANCED THREE PHASE AMPS		48.7	
EXISTING ELECTRICAL PANELS TO REMAIN. NO NEW LOAD ADDED TO THIS PANELBOARD.							

L1E

ROOM		VOLTS 208Y/120V 3P 4W				AIC=10,000					
MOUNTING FLUSH		BUS AMPS=200				MAIN BKR=150					
FED FROM UTILITY		NEUTRAL 100				LUGS STANDARD					
NOTE: EXISTING PANEL											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD		
			A	B	C				A	B	C
1	20/1	e-listing tr-t re-aps	1			2	20/1	e-listing tr-t re-aps	1		
3	20/1	e-listing tr-t re-aps		1		4	20/1	TRMT DIGI BOXES		0.72	
5	20/1	e-listing tr-t re-aps			1	6	20/1	TRMT DIGI BOXES			0.72
7	20/1	e-listing tr-t re-aps	1			8	20/1	TRMT DIGI BOXES	0.54		
9	20/1	e-listing tr-t re-aps				10	20/1	TRMT DIGI BOXES		0.54	
11	20/1	e-listing tr-t re-aps		1		12	20/1	BIOMED RECEPS			0.54
13	20/1	e-listing tr-t re-aps			1	14	20/1	EOP RECEPTACLE	0.5		
15	20/1	e-listing tr-t re-aps		1		16	20/1	e-listing tr-t re-aps		1	
17	20/1	e-listing tr-t re-aps			1	18	20/1	e-listing calling ans			0.5
19	20/1	e-listing poe re-door	0.8			20	20/1	e-listing tr-t re-aps	1		
21	20/1	e-listing poe re-door		0.72		22	20/1	e-listing tr-t re-aps		1	
23	20/1	e-listing tr-t re-aps			1	24	20/1	e-listing tr-t re-aps			1
25	20/1	e-listing tr-t re-aps	1			26	20/1	WORK AREA RECEPTACLE	0.54		
27	20/1	e-listing tr-t re-aps				28	20/1	DIALYSIS MAC RECEPTACLE		0.5	
29	20/1	e-listing tr-t re-aps		1		30	20/1	DIALYSIS MAC RECEPTACLE			0.5
31	20/1	space	0			32	20/1	DIALYSIS MAC RECEPTACLE	0.5		
33	20/1	e-listing tr-t re-aps				34	20/1	SPACE		0	
35	20/1	e-listing tr-t re-aps			1	36	20/1	e-listing tr-t re-aps			1
37	20/1	e-listing tr-t re-aps				38	20/1	SPACE	0		
39	20/1	e-listing re-aps		1.08		40	20/1	SPACE	0	0	
41	20/1	space				42	20/1	SPACE			0
TOTAL CONNECTED KVA BY PHASE									88	10.6	10.6
		CONN. KVA	CALC. KVA				CONN. KVA	CALC. KVA			
LIGHTING		0	0 (125)		CONTINUOUS		0	0 (125)			
LARGEST MOTOR		0	0 (125)		HEATING		0	0 (100)			
OTHER MOTORS		0	0 (100)		NONCONTINUOUS		0	0 (100)			
RECEPTACLES		31.1	20.5 (50+10)		KITCHEN EQUIP		0	0 (N/A)			
					NONCOM/DIVERSE		0	0 (N/A)			
					TOTAL KVA		31.1	20.5			
BALANCED THREE PHASE AMPS 57											

CONTRACTOR NOTE:

CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID. AND INCLUDE ALL ADDITIONAL COSTS IN THEIR BID. ELECTRICAL CONTRACTOR TO VERIFY AND INFORM THE ARCHITECT / ELECTRICAL ENGINEER OF ANY DISCREPANCIES FOUND IMMEDIATELY.

CONTRACTOR SHALL COORDINATE ALL UTILITY REQUIREMENTS WITH UTILITY COMPANY PRIOR TO BID. FURNISH AND/OR INSTALL ALL MATERIAL AND FURNISH ALL LABOR NECESSARY TO COMPLY WITH UTILITY REQUIREMENTS FOR THE UTILITY PRIMARY, SECONDARY AND METERING.

ONE-LINE DIAGRAM NOTES (#)

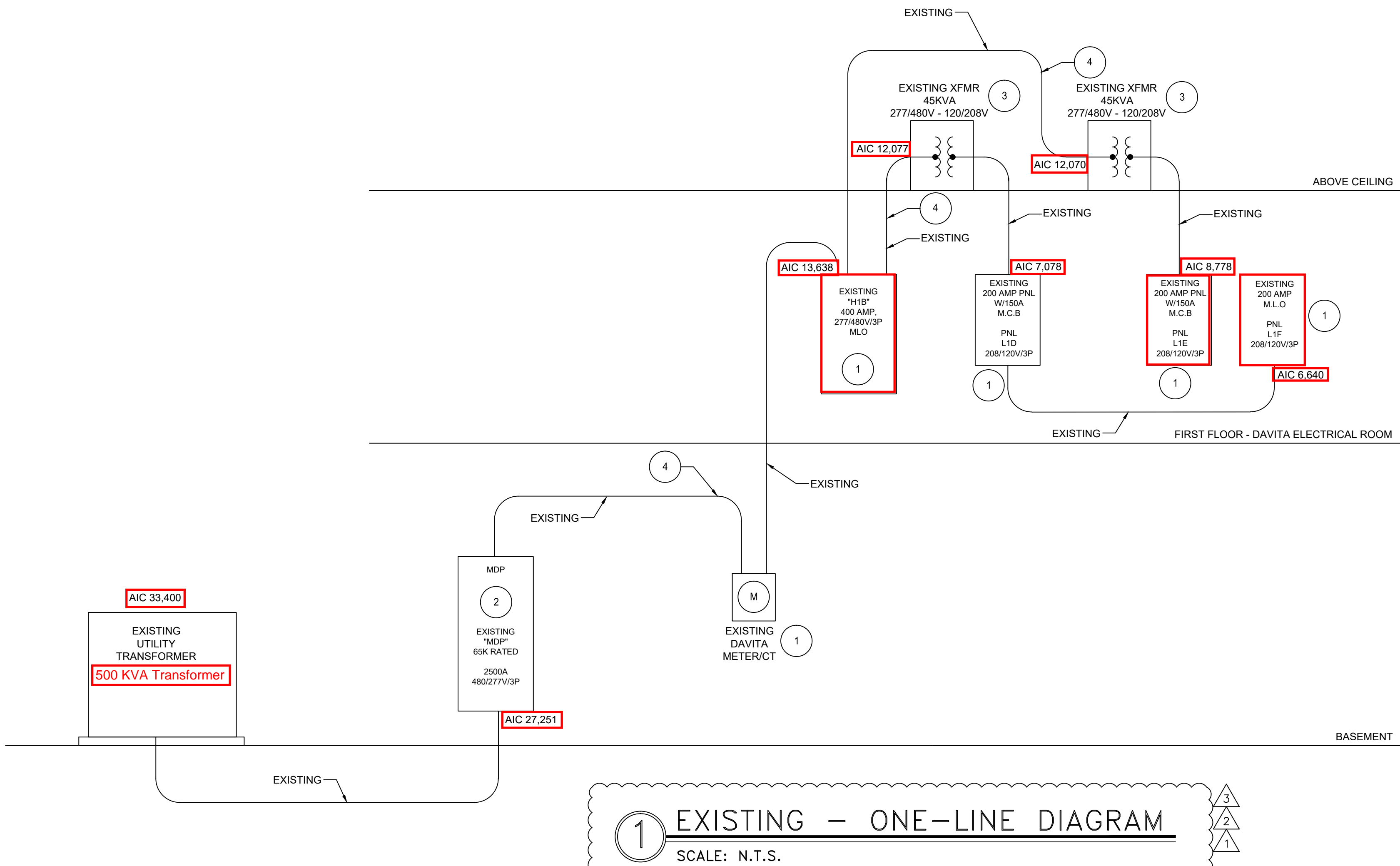
- EXISTING ELECTRICAL PANELS TO REMAIN.
- EXISTING TO REMAIN
- EXISTING TRANSFORMER AND ELECTRICAL WIREWAY TO REMAIN.
- CONTRACTOR TO PROVIDE EITHER 30 DAY DEMAND STUDY ON HIGH LEG OF TRANSFORMER AND H1B OR 1 YEAR PEAK DEMAND OF EXISTING SUBMETER TO H1B PER NEC 220.87. CONTRACTOR TO PROVIDE ENGINEER OF RECORD PRELIMINARY 1 DAY STUDY IF KVA EXCEEDS 45 KVA. CONTRACTOR TO SUPPLY STUDY TO ENGINEER OF RECORD WITHIN 48 HOURS OF COMPLETION.

Legibly identify each breaker or switch for it's use or purpose on the circuit directory in the panel/switchboard per 2017 NEC 408.4.

Service equipment shall be permanently and legibly marked to show the available fault current and date. 2017 NEC Article 110.24(A)(B).

CONTRACTOR BID NOTES:

- CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS WITH OWNER PRIOR TO BID.
- FURNISH AND/OR INSTALL ALL MATERIAL AND FURNISH ALL LABOR NECESSARY TO COMPLY WITH UTILITY REQUIREMENTS FOR THE UTILITY PRIMARY, SECONDARY AND METERING.
- CONTRACTOR TO COORDINATE THE SCOPE OF WORK WITH OWNER. VERIFY EXISTING CONDITIONS AND PROVIDE POWER TO NEW CIRCUITS FROM PANEL "L1F". CONTRACTOR TO VERIFY THAT EXISTING PANEL AND ELECTRICAL SERVICE IS CAPABLE OF HANDLING ADDITIONAL ELECTRICAL LOAD. OTHERWISE, NOTIFY THE ENGINEER OF RECORD PRIOR TO START ANY WORK. CONTRACTOR SHALL VISIT THE JOB SITE TO EXAMINE EXISTING ELECTRICAL CONDITIONS PRIOR TO BID AND INCLUDE ALL ASSOCIATED COSTS IN THE BID WITH NO ADDITIONAL COST TO OWNER.



1 EXISTING - ONE-LINE DIAGRAM

SCALE: N.T.S.



City of Aurora Building Division
Reviewed for Code Compliance
Approved as Noted: William Griffin
Date: Sep 26, 2018
2015 INTERNATIONAL CODES & 2017 NEC

RSN: 1322345
Permit #: 18-1529237 LT



SEARER, ROBBINS & STEPHENS, INC.

ARCHITECTURE INTERIORS PLANNING

1730 EAST NORTHERN AVENUE, SUITE 124, PHOENIX, ARIZONA 85020 (602) 277-1187 FAX: (602) 277-9979

ELECTRICAL ONE-LINE & PANELBOARDS

DRAWN VS/TE
CHECKED JB/JVK
JOB NO. 1820
DATE AUG 20, 2018

REVISIONS

- | | |
|------------------|----------|
| 1. OWNER CHANGES | 08/28/18 |
| 2. CITY COMMENTS | 08/28/18 |
| 3. CITY COMMENTS | 09/13/18 |



DaVita
Aurora Dialysis Center Upgrades
at
1411 South Potomac Street, Suite 100
Aurora, Colorado 80012

SHEET NO.

E-3

Insert Row		Delete Row		FAULT CURRENT CALCULATIONS													
Insert "Start over" Row		COMMON				FEEDER						TRANSFORMER				RESULTS	
FED FROM	FAULT POINT	I (SCA) START	V (L-L or P)	PHASE (1 or 3)	FEEDER (F) or XFMR(T)	WIRE (CU)		WIRE (AL)		DUCT (M = MAG) (N = NON)	LENGTH (FT)	V (S)	KVA	IMP% (AUTO)	IMP% OVER-RIDE	I(SCA) FINAL	WIRE TYPE
						SIZE	SETS	SIZE	SETS								
UTIL	SWBD	33,400	480	3	F	500	4			N	200					27,251	CU
SWBD	H1B	27,251	480	3	F	350	1			M	200					13,638	CU
H1B	T1p	13,638	480	3	F	4	1			M	10					12,077	CU
T1p	T1s	12,077	480	3	T							208	75	2.00		7,578	
T1s	L1D	7,578	208	3	F	1/0	1			M	10					7,078	CU
L1D	L1F	7,078	208	3	F	1/0	1			M	10					6,640	CU
H1B	T2p	13,638	480	3	F	4	1			M	10			2.00		12,077	CU
T2p	T2s	12,077	480	3	T							208	112.5	2.00		10,007	
T2s	L1E	10,007	208	3	F	1/0	1			M	15					8,778	CU
TRANSFORMER EXAMPLE (DO NOT USE FOR PROJECT CALCULATIONS):																	
MDP	TAp	45,000	480	3	F	1	1	3/0	1	M	50					23,439	AL
TAp	TAs	23,439	480	3	T							208	45	2.00		5,599	
TAs	LA	5,599	208	3	F	3/0	1			M	10					5,403	CU
BLANK ROWS FOR INSERT FUNCTION (DO NOT USE FOR PROJECT CALCULATIONS):																	

Brandon Pinkerton, PE

