

HARRIS HEALTH SYSTEM

# SPRING BRANCH HEALTH CENTER

9801 Long Point | Houston, Texas

November 4, 2013  
Issue for Permit & Pricing

## Harris County

**El Franco Lee**  
Commissioner Precinct 1

**Jack Morman**  
Commissioner Precinct 2

**Barbara J. Schott**  
County Auditor

**Ed Emmett**  
County Judge



**Steve Radack**  
Commissioner Precinct 3

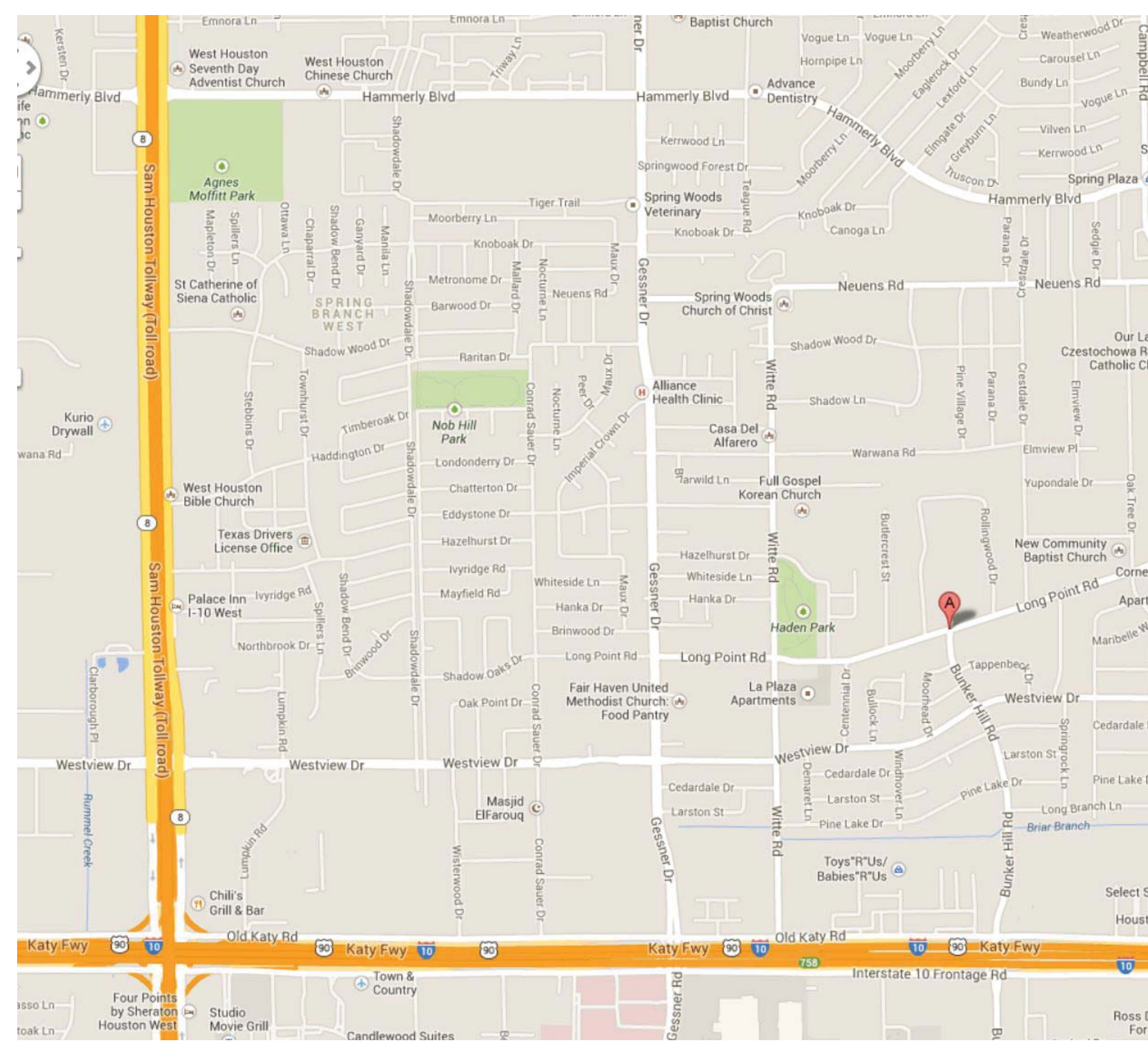
**R. Jack Cagle**  
Commissioner Precinct 4

**Arthur L. Storey Jr., P.E.**  
County Engineer

# STANDARD ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR	LAV.	LAVATORY
ADJ.	ADJUSTABLE	LLH	LONG LEG VERTICAL
ADDL.	ADDITIONAL	LLH	LONG LEG HORIZONTAL
ALT.	ALTERNATE	L.P.	LOW POINT
ALUM.	ALUMINUM	MFR./MANUF.	MANUFACTURER
A.B.	ANCHOR BOLTS	MAS.	MASONRY
L	ANGLE	M.O.	MASONRY OPENING
ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
@	AT	MECH.	MECHANICAL
B.U.ROD	BACK-UP ROD	MEP	M.E.P.
BD.	BOARD	MTL	METAL
BOT.	BOTTOM	MIN.	MINIMUM
BLDG.	BUILDING	N.I.C.	NOT IN CONTRACT
B.U. ROOF	BUILT-UP ROOF	N.T.S.	NOT TO SCALE
CAB./CABT.	CABINET	O.C.	ON CENTER
CEM.	CEMENT	O.C.E.W.	ON CENTER ELEVATION
C.L.	CENTER LINE	OPNG.	OPENING
CER.	CERAMIC	O.D.	OUTSIDE DIAMETER
C.T.	CERAMIC TILE	O.H.	OPPOSITE HAND
COL.	COLUMN	PTD	PAINTED
CONC.	CONCRETE	PLAM	PLASTIC LAMINATE
C.M.U.	CONCRETE MASONRY UNIT	PLAS.LAM.	PLASTIC LAMINATE
CONST.	CONSTRUCTION	PLUMB.	PLUMBING
CONT.	CONTINUOUS	PLYWD.	PLYWOOD
CONTR.	CONTRACTOR	P.S.	PRESSED STEEL
C.G.	CORNER GUARD	PL.	PLATE / PROPERTY LINE
C.J.	CONTROL JOINT	PLUMB.	PLUMBING
C.W.	CURTAIN WALL	POL.	POLISHED
DECOR.	DECORATIVE	PTM	PATCH TO MATCH
DET.	DETAIL	RAD.	RADIUS
DIAM./d	DIAMETER	RECP.	RECEPTACLE
DIM.	DIMENSION	REF.	REFERENCE
DR.	DOOR	REIN.	REINFORCING
DBL.	DOUBLE	REQ'D.	REQUIRED
DS	DOWN SPOUT	R/REV.	R/REVISION
EA.	EACH	R.	ROOF DRAIN
E.W.	ELECTRIC	R.M.	ROOM
ELEC.	ELECTRIC	R.O.	ROUGH OPENING
E.W.C.	ELECTRIC WATER COOLER	S.B.	SPLASH BLOCK
EL.	ELEVATOR	SCHED.	SCHEDULE / SCHEDULED
ELEV.	ELEVATION	SECT.	SECTION
EQ.	EQUAL	SHT.	SHEET
EXP.	EXPANSION	SIM.	SIMILAR
E.J.	EXPANSION JOINT	S.O.	SHAFT OPENING
EXT.	EXTERIOR	SPEC.	SPECIFICATION
FIN.	FINISH	S.S.	STAINLESS STEEL
F.F.	FINISH FLOOR	STD.	STANDARD
FEC	FIRE EXTINGUISHER CABINET	STL.	STEEL
FEX	FIRE EXTINGUISHER	STRUCT.	STRUCTURAL
F.H.C.	FIRE HOSE CABINET	THK	THICK
F.H.	FIRE HYDRANT	TLT	TOILET
FLASH.	FLASHING	T.O.B.	TOP OF BEAM
FLR.	FLOOR	T.O.C.	TOP OF CURB
F.D.	FLOOR DRAIN	T.O.J.	TOP OF JOIST
GALV.	GALVANIZED	T.O.S.	TOP OF STEEL
G.I.	GALVANIZED IRON	T.O.P.	TOP OF PLATE
GA.	GALVE	T.O.W.	TOP OF WALL
GEN.	GENERAL	T	TREAD
GWB	GYP-SUM WALL BOARD	TYP.	TYPICAL
GYP.BD.	GYP-SUM BOARD	U.C.	UNDER COUNTER / CABINET
HD.BD.	HARD BOARD	U.N.O.	UNLESS NOTED OTHERWISE
HR.	HOUR	UR	URINAL
HT.	HEIGHT	VERT.	VERTICAL
H.P.	HORSE POWER	V.B.	VESTIBULE
H.M.	HOLLOW METAL	V.V.C.	VERTICAL WALL COVERING
H.O.	HOIST WAY OPENING	WC	WATER CLOSET
HOR./HORZ.	HORIZONTAL	W.P.	WATER PROOF
I.D.	INTERIOR DIAMETER	WF	WIDE FLANGE
INSUL.	INSULATION	W	WITH
INT.	INTERIOR	W/O	WITHOUT
JT.	JOINT	WD	WOOD
LAM.	LAMINATE / LAMINATED	W.W.F.	WELDED WIRE FABRIC

# AREA MAP



# GENERAL NOTES

DO NOT SCALE DRAWINGS FOR CONSTRUCTION PURPOSES. IN THE EVENT OF OMISSION OF NECESSARY DIMENSION(S), NOTIFY THE ARCHITECT.

ALL DIMENSIONS ON 1/8" & 1/4" SCALE PLANS ARE TO THE FACE OF MASONRY, CONCRETE OR THE FACE OF GYPSUM BOARD, UNLESS NOTED OTHERWISE. ALL MASONRY DIMENSIONS ARE ACTUAL, UNLESS NOTED OTHERWISE.

VERIFY ALL DIMENSIONS, CONDITIONS, EXISTING CONSTRUCTION, AND GRADES AT THE JOB SITE. NOTIFY ARCHITECT IN WRITING OF ANY DISCREPANCIES OR CONFLICTS.

VERIFY SIZE, LOCATION, AND CHARACTERISTICS OF ALL WORK AND EQUIPMENT TO BE INSTALLED OR RELOCATED WHETHER FURNISHED BY OWNER OR BY CONTRACTOR(S) BEFORE ANY CONSTRUCTION PERTAINING TO SAME HAS BEGUN.

VERIFY AND COORDINATE THE SIZE AND LOCATION OF ALL THE OPENINGS FOR STRUCTURAL, MECHANICAL AND ELECTRICAL WORK AND EQUIPMENT WITH ALL TRADES INVOLVED.

CEILING HEIGHTS INDICATED ON THE ROOM FINISH SCHEDULE ARE TAKEN FROM THE FINISH FLOOR ELEVATION. VERIFY THE SIZE, LOCATION AND CHARACTERISTICS OF ALL MECHANICAL, ELECTRICAL AND STRUCTURAL ITEMS BEFORE CEILING CONSTRUCTION IS BEGUN. COORDINATE WITH ALL TRADES TO MAINTAIN SCHEDULED CEILING HEIGHTS.

DEMOLITION INFORMATION IS SHOWN THROUGHOUT THE DRAWINGS AND IS NOT LIMITED TO THE DEMOLITION DRAWINGS.

COORDINATE VISUAL APPEARANCE OF ALL ELECTRICAL, MECHANICAL & PLUMBING WORK AT AREAS W/ EXPOSED CEILING/STRUCTURE. RUN ALL PIPES, CONDUITS, DUCTWORK, ETC., ORTHOGONAL WITH STRUCTURE W/ ALL TURNS & BENDS AT 90 DEGREES.

VERIFY THAT REQUIRED OPERATION AND MAINTENANCE CLEARANCES ARE PROVIDED FOR ALL EQUIPMENT ITEMS.

INSTALL ALL ITEMS IN ACCORDANCE W/ THE MANUFACTURER'S WRITTEN INSTRUCTIONS, EXCEPT THAT THE SPECIFICATIONS HEREIN, WHERE MORE STRINGENT, SHALL SUPERCEDE. NOTIFY THE ARCHITECT IN WRITING OF ANY CONFLICTS.

PROVIDE BLOCKING FOR ALL WALL MOUNTED ITEMS OR EQUIPMENT FASTENING TO DRYWALL PARTITIONS.

COORDINATE WITH OWNER'S COMMUNICATION AND SECURITY CONTRACTORS FOR THE INSTALLATION OF PHONES, COMPUTERS, AND SECURITY SYSTEMS.

# INDEX OF SHEETS

## SHEET & DRAWING REFERENCE LEGEND

REFER TO CIVIL, STRUCTURAL & MECHANICAL SHEETS FOR RESPECTIVE DISCIPLINE LEGENDS

DISCIPLINE

Gx - GENERAL ARCHITECTURAL  
Cx - CIVIL  
Lx - LANDSCAPE  
AF - LIFE SAFETY  
AD - DEMOLITION  
Ax - ARCHITECTURAL  
Ix - INTERIORS  
Sx - STRUCTURAL  
Mx - MECHANICAL  
Ex - ELECTRICAL  
Px - PLUMBING  
FP - FIRE PROTECTION  
Tx - TECHNOLOGY

**3/A-001**

NUMBER OF PLAN, DETAIL, SECTION, ETC. ON SHEET

SHEET NO.

Sheet Number	Sheet Name	Sheet Issue Date
A-000	INDEX	11/04/13
<b>ARCHITECTURE</b>		
A-001	PARTITION TYPES	11/04/13
A-002	DOOR TYPES	11/04/13
A-003	TOILET TYPES	11/04/13
AF-101	LEVEL 1 LIFE SAFETY PLAN	11/04/13
AF-102	UL RATINGS	11/04/13
AF-103	UL RATINGS	11/04/13
AF-104	UL RATINGS	11/04/13
AD-101	LEVEL 1 DEMOLITION PLAN	11/04/13
A-101	LEVEL 1 FLOOR PLAN & REFLECTED CEILING PLAN	11/04/13
A-601	INTERIOR ELEVATIONS & CABINETRY TYPES	11/04/13
<b>INTERIORS</b>		
I-001	INTERIOR FINISHES SCHEDULE & GENERAL NOTES	11/04/13
I-101	LEVEL 1 INTERIOR FINISHES PLAN	11/04/13
<b>EQUIPMENT</b>		
Q103	EQUIPMENT	11/04/13
<b>MECHANICAL</b>		
M-000	MECHANICAL LEGENDS, SYMBOLS & GENERAL NOTES	11/04/13
M-101	MECHANICAL FLOOR PLAN	11/04/13
M-201	MECHANICAL DETAILS	11/04/13
M-202	MECHANICAL DETAILS	11/04/13
M-203	MECHANICAL DETAILS	11/04/13
M-301	MECHANICAL SCHEDULES	11/04/13
<b>ELECTRICAL</b>		
E-001	ELECTRICAL SYMBOLS LEGEND & PANEL SCHEDULES	11/04/13
E-101	POWER PLAN	11/04/13
E-201	LIGHTING PLAN	11/04/13
E-301	FIRE ALARM PLAN	11/04/13
<b>PLUMBING</b>		
P-101	PLUMBING FLOOR PLAN	11/04/13
P-201	PLUMBING RISERS	11/04/13
P-301	PLUMBING DETAILS	11/04/13
P-401	PLUMBING SCHEDULES	11/04/13
<b>TELECOM</b>		
T-000	LEGENDS, INDES, AND NOTES - TELECOM	11/04/13
T-001	FACEPLATE, BACKBOX, AND CONDUIT REQUIREMENTS - TELECOM	11/04/13
T-201	LEVEL 1 FLOOR PLAN - TELECOM	11/04/13
T-401	ENLARGED PLAN AND ELEVATIONS - TELECOM	11/04/13

REVISIONS			
No.	Date	TASK	BY

## ISSUE FOR PERMIT & PRICING

### HARRIS HEALTH SYSTEM

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, TX 77054

ARCHITECT & ENGINEERS:

**JOHNSTON, LLC**  
2000 BERG DRIVE  
SUITE 850  
HOUSTON, TX 77057  
713-532-2466  
www.johnston-llc.com

**Engineers - Architects - Planners - Managers**

# NOVEMBER 4, 2013 ISSUE FOR PERMIT & PRICING

<b>ARCHITECT</b> <b>JOHNSTON, LLC</b>	<b>MEP ENGINEERS</b> <b>JOHNSTON, LLC</b>	<b>TECHNOLOGY</b> <b>SMITH SECKMAN REID</b>	<b>MEDICAL EQUIPMENT</b> <b>MAZZETTI</b>
2000 Bering Drive Suite 850 Houston, Texas 77057 (713) 532-2466 www.johnston-llc.com	2000 Bering Drive Suite 850 Houston, Texas 77057 (713) 532-2466 www.johnston-llc.com	3700 W. Sam Houston Pkwy. South Suite 200 Houston, TX 77042 (713) 784-8211 www.ssr-inc.com	12727 Featherwood Drive Suite 285 Houston, TX 77034 (281) 480-5563 www.mazzetti.com

# DRAWING LEGEND

ROOM NAME 1557	ROOM NAME / NUMBER
1557 N-101A-16	DOOR TYPE NUMBER
X	DOOR TYPE NUMBER
A3	PARTITION TYPE
07	PLAN NOTE x NUMBER
07	INTERIOR BORROWED LITE MARK
07	WINDOW MARK
1523	MEDICAL EQUIPMENT TAG (REFER TO ARCHITECTURALLY SIGNIFICANT EQUIPMENT (ASE) SCHEDULE
07	REVISION MARK
N NAME ELEVATION	REVISION MARK
1 A-101	WALL SECTION MARK
1 A-101	DETAIL MARK



Firm Registration #:  
PROJECT TITLE:  
**SPRING BRANCH HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston, TX 77055

SHEET TITLE:  
INDEX

DATE: 11/04/13 DATE:

SHEET NUMBER:  
**A-000**

DRAWN BY: SCALE:  
Author 12" = 1'-0"  
CHECKED BY: JOB NO:  
Checker

# PARTITION TYPES

GRAPHICAL DEFAULTS	A3 TYPICAL PARTITION			B3 2-HR RATED			C4 1-HR SHAFTWALL			D4 2-HR SHAFTWALL			E1 COLUMN & WALL FURRING			F6 CMU			G3 MISC NON RATED FURRING			PARTITIONS TAGGED WITH AN "A" SUFFIX EXTEND TO 12'-0" A.F.F. AND BRACE TO STRUCTURE ABOVE AND ARE NON-RATED	
	TAG	STUD	WIDTH	TAG	STUD	WIDTH	TAG	STUD	WIDTH	TAG	STUD	WIDTH	TAG	STUD	WIDTH	TAG	CMU BLOCK WIDTH	TAG	STUD	WIDTH			
TAGGED ON PLANS	A1	1 5/8"	2 7/8"	B1	1 5/8"	4 1/8"	C2	1/2"	3 1/8"	D2	2 1/2"	3 3/4"	E1	DEFAULT PARTITION	F4	3 5/8"	G2	2 1/2"	3 1/8"				
	A2	2 1/2"	3 3/4"	B2	2 1/2"	5"	C4	DEFAULT PARTITION	D4	DEFAULT PARTITION	E2	2 1/2"		F6	DEFAULT PARTITION	F8	7 5/8"	G3	DEFAULT PARTITION	G4	4"	4 5/8"	
	A3	DEFAULT PARTITION		B3	DEFAULT PARTITION		C6	6"	6 5/8"	D6	6"	7 1/4"	E3	3 5/8"		F12	11 5/8"	G6	6"	6 5/8"			
	A4	4"	5 1/4"	B4	4"	6 1/2"							E4	4"									
	A6	6"	7 1/4"	B6	6"	8 1/2"							E6	6"									
	A8	8"	9 1/4"	B8	8"	10 1/2"																	

# PARTITION NOTES

INTERIOR METAL STUD FRAMING TO BE 22 GAGE (MINIMUM) @ 16" O.C., U.N.O.

PROVIDE 20 GAGE DOUBLE STUDS @ EACH DOOR AND WINDOW / BORROWED LIGHT JAMB, UNLESS DETAILED OTHERWISE.

PROVIDE 16 GAGE METAL STRAP BLOCKING FOR ALL WALL MOUNTED ITEMS, UNLESS NOTED OR DETAILED OTHERWISE. EXTEND BLOCKING ACROSS 3 STUDS MINIMUM.

REFER TO FLOOR PLANS FOR LOCATIONS OF SMOKE AND / OR FIRE RATED PARTITIONS. REFER TO WALL PRIORITY LEGEND FOR CONDITIONS WHERE FIRE RATED PARTITIONS INTERSECT OTHER PARTITIONS.

REFER TO OTHER SCHEDULES AND DETAILS FOR FINISHES. PARTITION TYPES SHOWN THIS SHEET REFER TO BASE WALL ONLY.

INTERIOR PARTITIONS ARE DIMENSIONED FROM THE FACE OF GYPSUM BOARD.

CONSTRUCT ALL EXTERIOR PARTITIONS TO RESIST THE PASSAGE OF SMOKE.

REFER TO THE GYPSUM BOARD MATERIAL SCHEDULE THIS SHEET FOR A DESCRIPTION OF THE TYPE OF GYPSUM BOARD PANELS TO BE USED.

FOR PARTITIONS THAT EXTEND TO STRUCTURE, THE "LINE OF STRUCTURE" AS SHOWN AT THE HEAD CONDITION OF EACH PARTITION TYPE IS DIAGRAMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS. TERMINATE RATED PARTITIONS AT THE UNDERSIDE OF STRUCTURAL DECK IN ORDER TO MAINTAIN RATING. PROVIDE APPROPRIATE BRAY WALL FRAMING TO OFFSET AROUND STRUCTURE OR OTHER OBSTRUCTIONS SUCH AS PIPING OR DUCT WORK.

- PARTITIONS MAY TERMINATE AT STRUCTURAL MEMBERS WITH A RATING GREATER THAN OR EQUAL THE PARTITION, PROVIDED THAT RATING IS CONTINUOUS TO THE STRUCTURAL DECK ABOVE.

- NON RATED PARTITIONS THAT EXTEND TO STRUCTURE SHALL TERMINATE AT UNDERSIDE OF STRUCTURAL DECK TO MAINTAIN A CONTINUOUS PLANE OF GYPSUM BOARD AS A SMOKE, NOISE, OR OTHER TYPE OF BARRIER.

ALL PARTITIONS EXTENDING TO STRUCTURE ABOVE SHALL TERMINATE WITH EXPANSIVE TRACKS - SEE TYPICAL DETAILS THIS SHEET.

BRACE ALL GYPSUM BOARD PARTITIONS NOT EXTENDING TO STRUCTURE ABOVE.

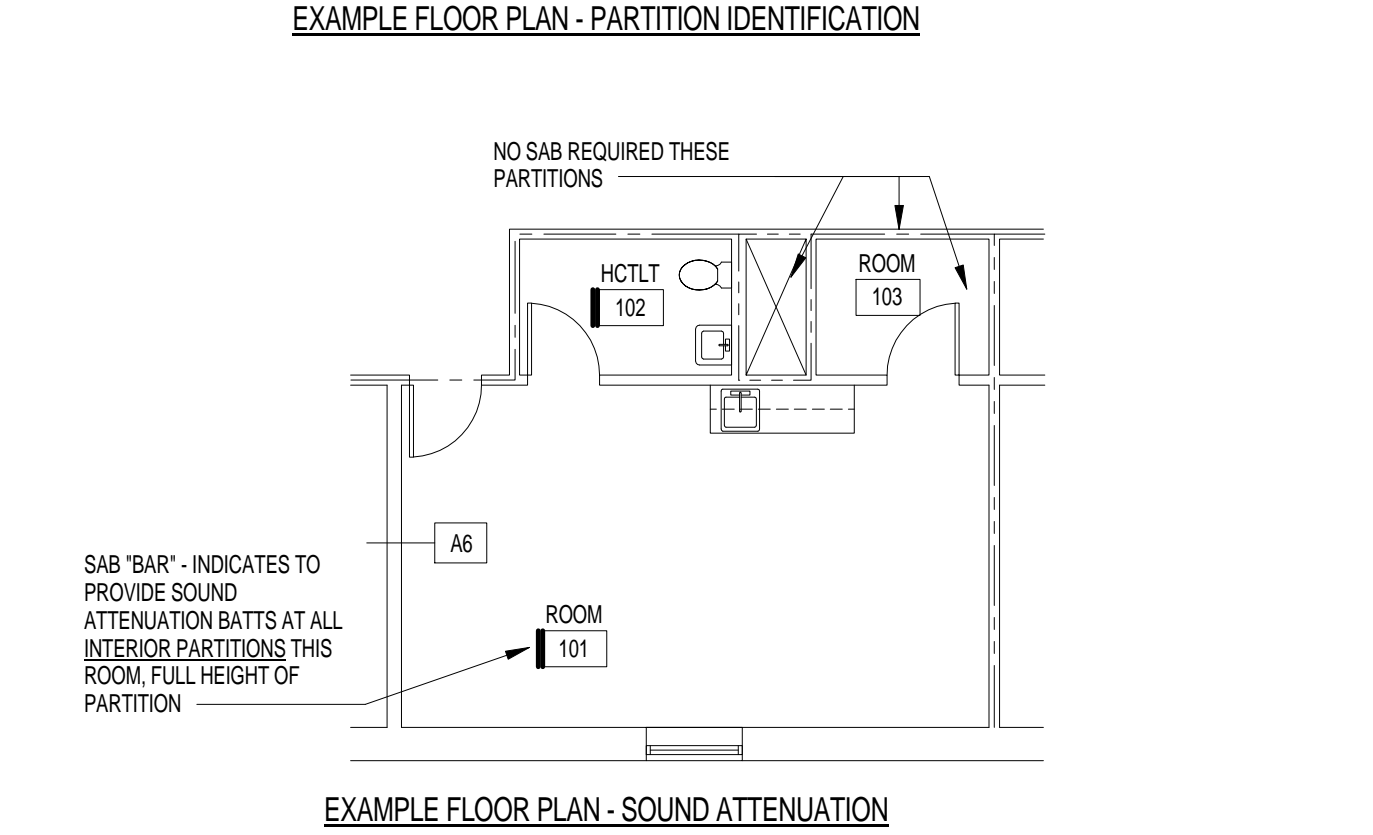
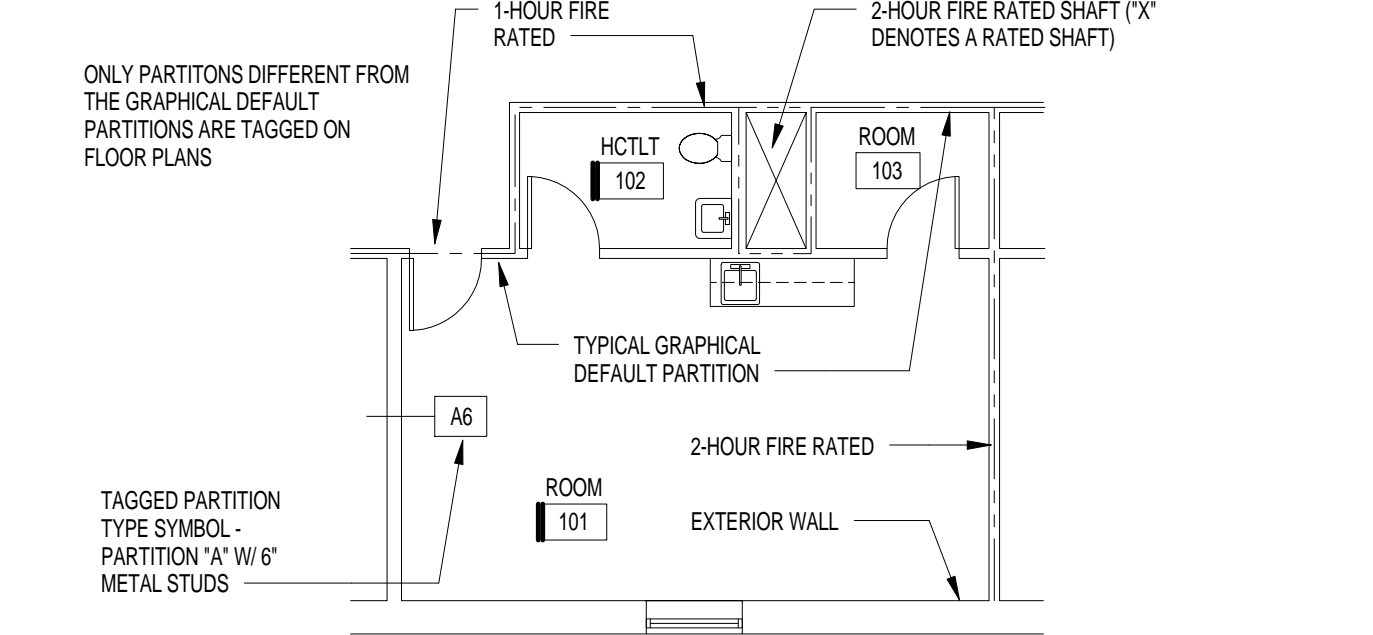
EXTEND RATED PARTITIONS THROUGH THE FACE OF GYPSUM BOARD AT THE EXTERIOR WALL TO SEAL AGAINST THE BACK FACE OF EXTERIOR WALL SHEATHING.

IDENTIFY ALL RATED PARTITIONS WITH LABELS 6 INCHES ABOVE THE CEILING OR 10 FEET MAX. ABOVE THE FLOOR IF NO CEILING. USE 1 1/2" HIGH LETTERS, CLEARLY LEGIBLE & READABLE AGAINST A CONTRASTING BACKGROUND.

UL DESIGN NUMBERS REFER TO THE FIRE UNDERWRITERS LABORATORY RESISTANCE DIRECTORY, LATEST EDITION.

FIRE RATED PARTITIONS TO HAVE FIRESTOPPING SEALANT SYSTEMS INSTALLED AT HEAD, SILL, AND JUNCTURES WITH DISSIMILAR MATERIALS, ETC., AND ALL AROUND PENETRATIONS AND OPENINGS.

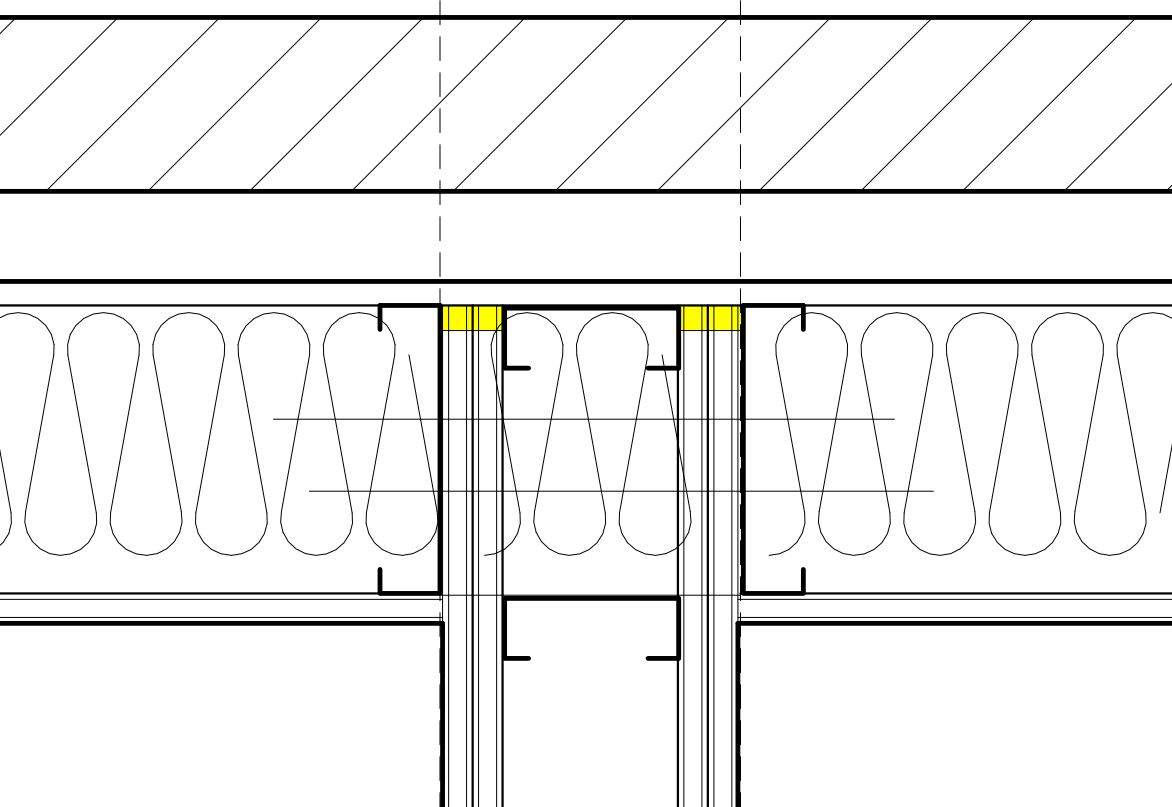
NON-RATED PARTITIONS TO HAVE ACOUSTICAL SEALANT INSTALLED AT HEAD, SILL, AND JUNCTURES WITH DISSIMILAR MATERIALS, ETC., AND ALL AROUND PENETRATIONS AND OPENINGS.



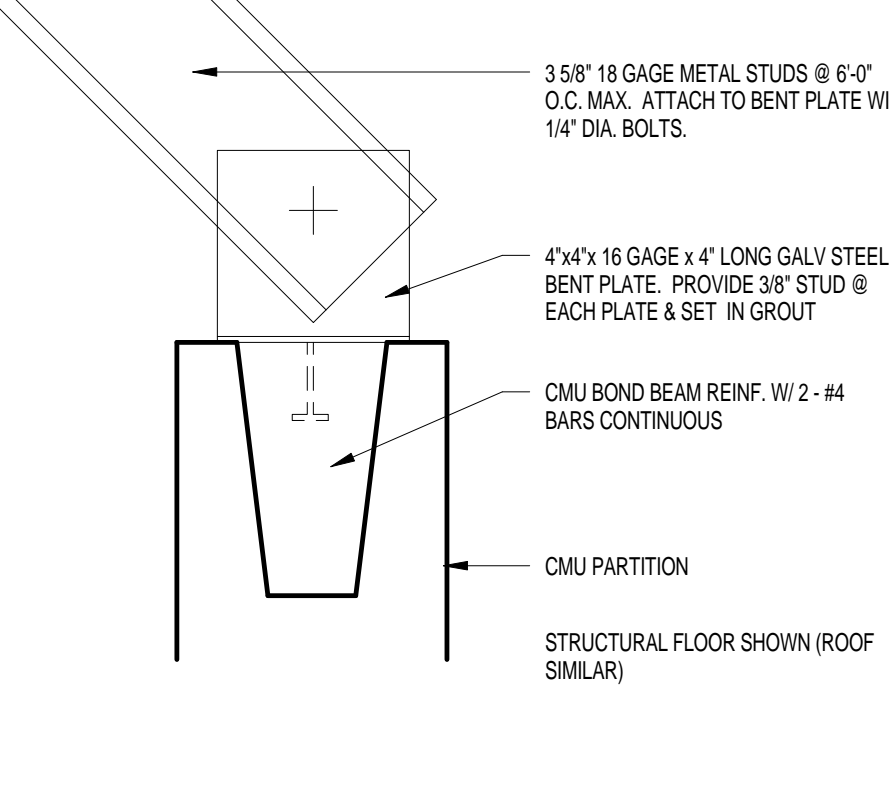
# PLUMBING CHASE SCHEDULE

# GYPSUM BOARD SCHEDULE

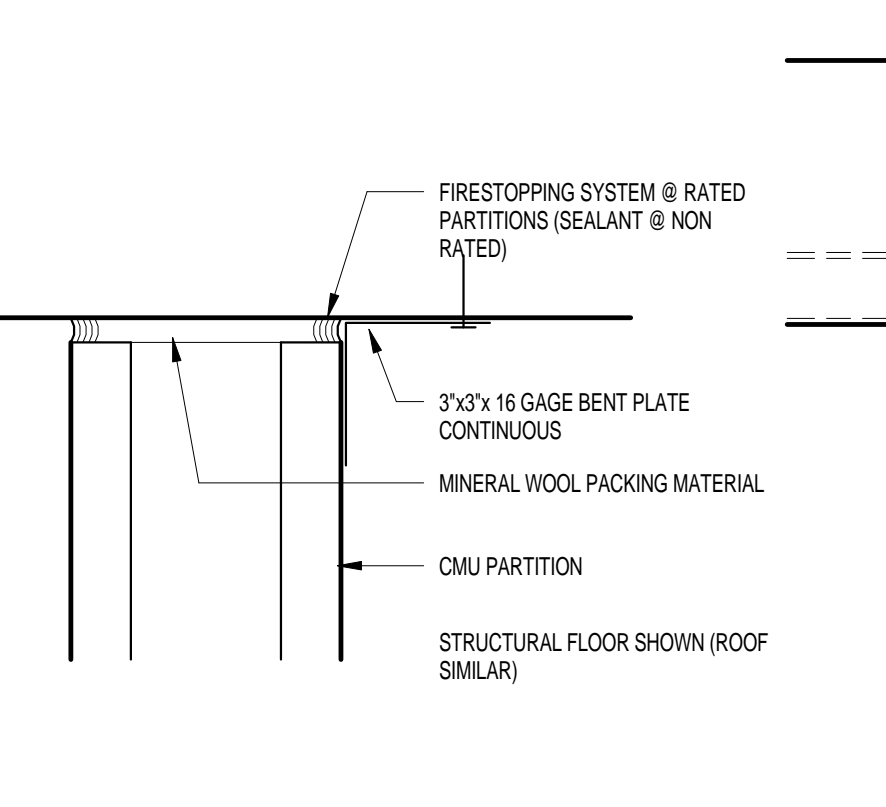
STRUCTURE	WATER CLOSETS			URINAL			LAVATORIES			EWC			5/8" TYPE "X" GYPSUM BOARD			ALL PARTITIONS, U.N.O., OR NOTED OTHERWISE ON DRAWINGS				
	TAG	STUD	WIDTH	TAG	STUD	WIDTH	TAG	STUD	WIDTH	TAG	STUD	WIDTH	TAG	STUD	WIDTH	TAG	STUD	WIDTH		
CLG FLR	A1	1 5/8"	2 7/8"	B1	1 5/8"	4 1/8"	C1	1 1/2"	3 1/8"	D1	2 1/2"	3 3/4"	E1	DEFAULT PARTITION	F1	3 5/8"	G1	2 1/2"	3 1/8"	
	A2	2 1/2"	3 3/4"	B2	2 1/2"	5"	C2	1/2"	3 1/8"	D2	2 1/2"	3 3/4"	E2	2 1/2"	F2	3 5/8"	G2	2 1/2"	3 1/8"	
	A3	DEFAULT PARTITION		B3	DEFAULT PARTITION		C3	DEFAULT PARTITION		D3	DEFAULT PARTITION		E3	3 5/8"	F3	7 5/8"	G3	DEFAULT PARTITION		
	A4	4"	5 1/4"	B4	4"	6 1/2"	C4	DEFAULT PARTITION		D4	DEFAULT PARTITION		E4	4"	F4	11 5/8"	G4	6"	6 5/8"	



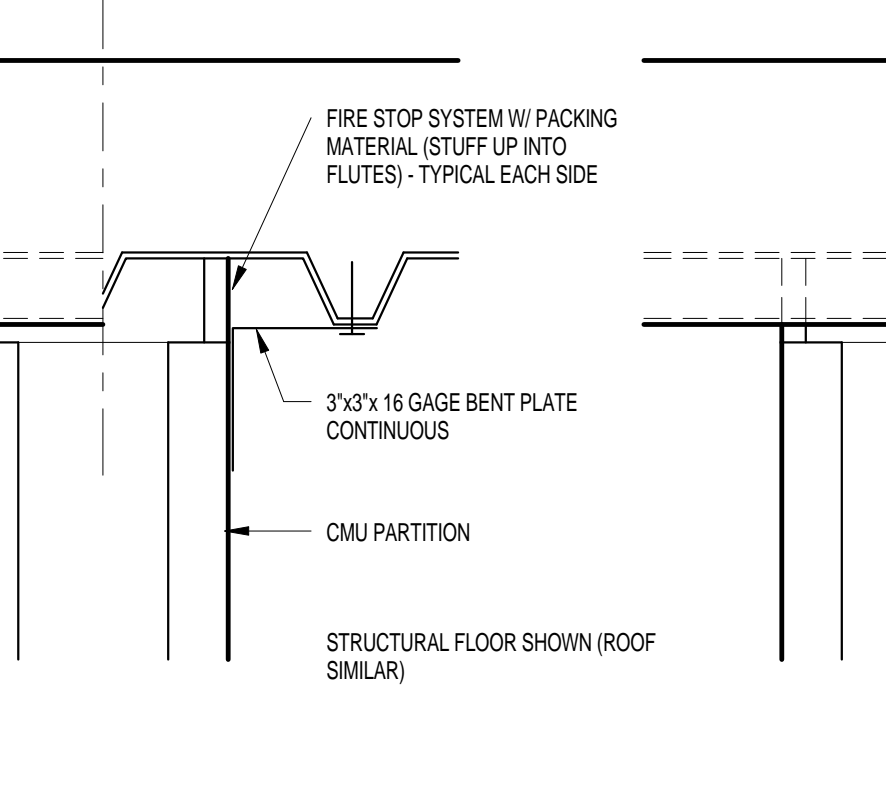
**INTERSECTION @ EXTERIOR WALL**  
INTERIOR PARTITIONS ABUTTING EXTERIOR WALLS



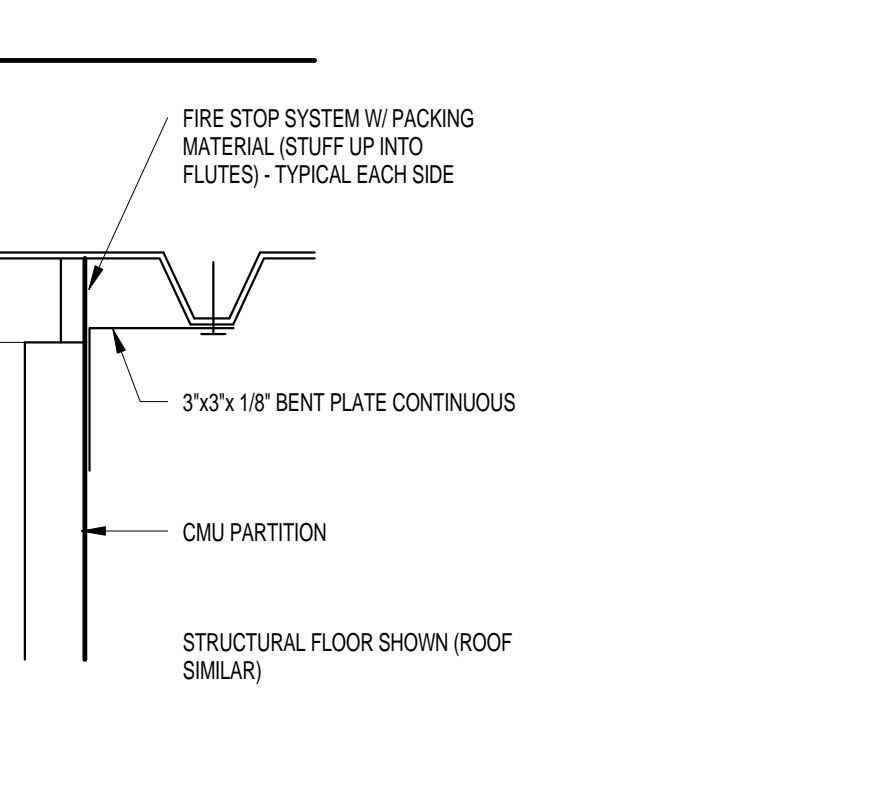
**CMU - TOP OF WALL**  
FOR PARTITIONS NOT EXTENDING TO DECK ABOVE



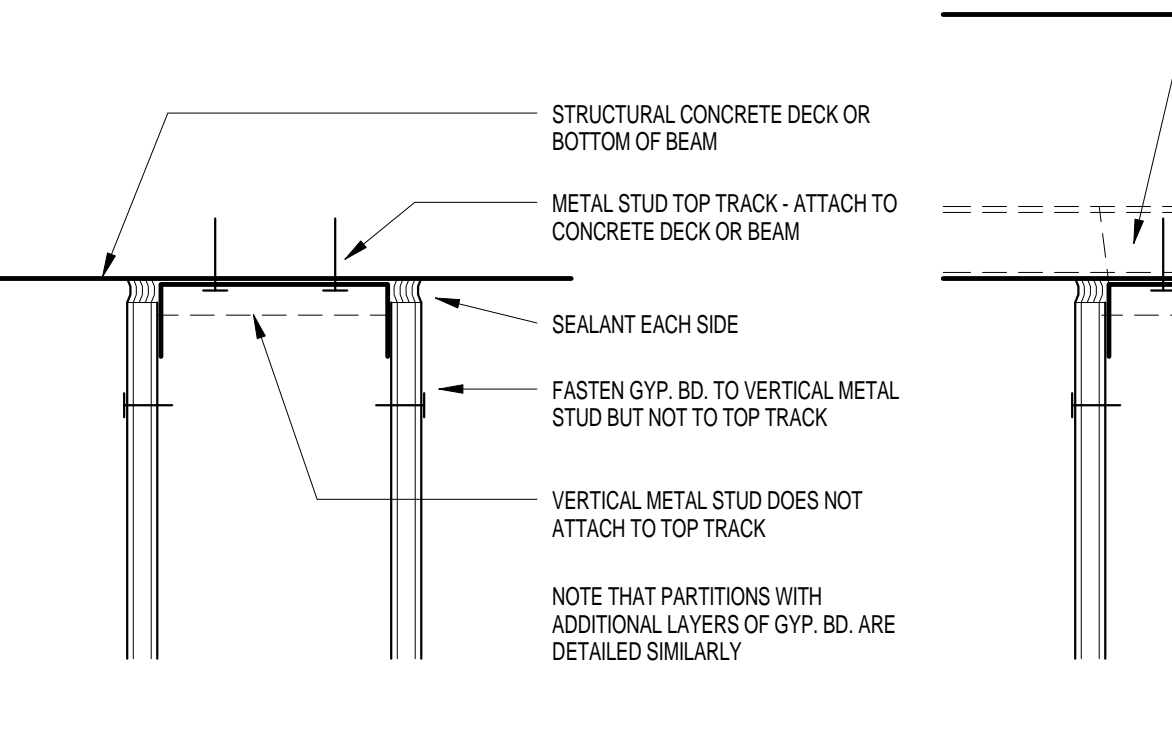
**CMU - RATED & NON RATED**  
RATED & NON RATED PARTITIONS THAT ABUT THE BOTTOM OF CONCRETE DECK OR BEAM



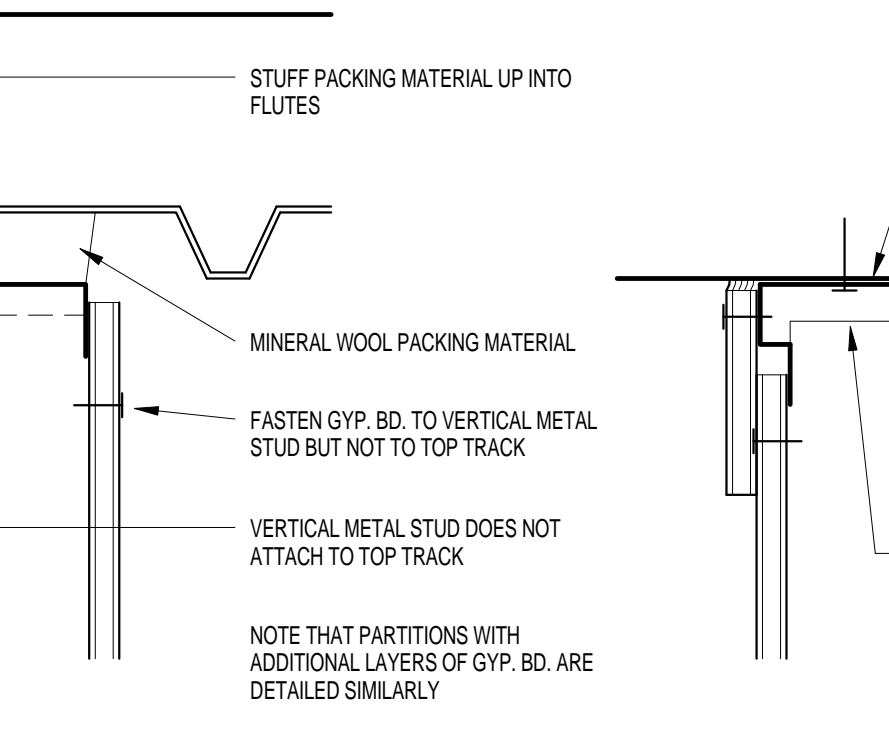
**CMU - NON RATED**  
(BOTH PARALLEL / PERPENDICULAR TO FLUTES SHOWN)



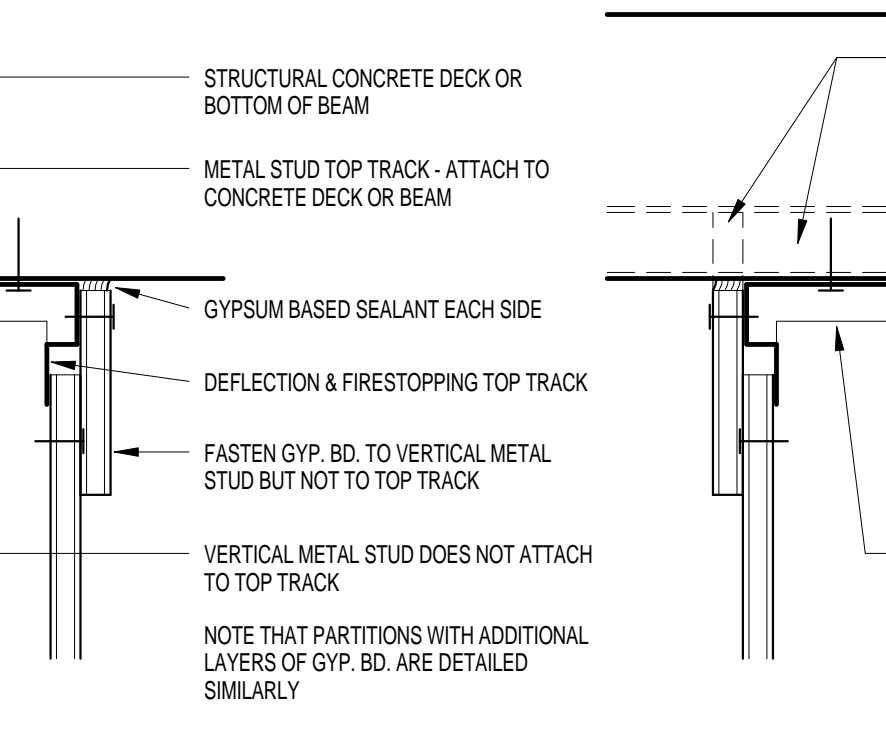
**CMU - RATED**  
(BOTH PARALLEL / PERPENDICULAR TO FLUTES SHOWN)



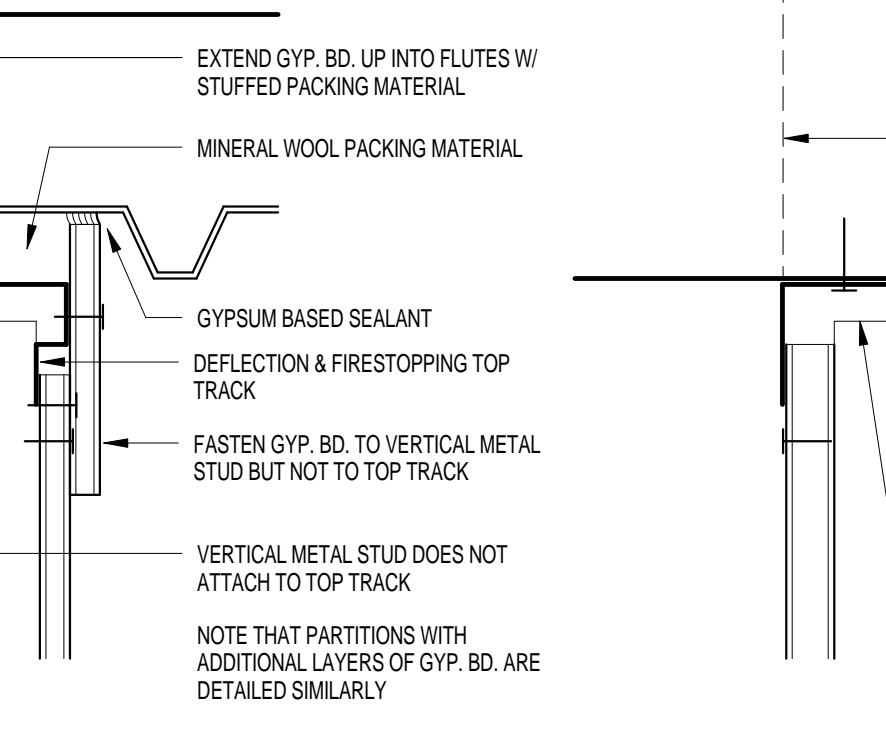
**DEFLECTION TRACK**  
NON RATED PARTITION @ BOTTOM OF CONCRETE DECK OR BEAM



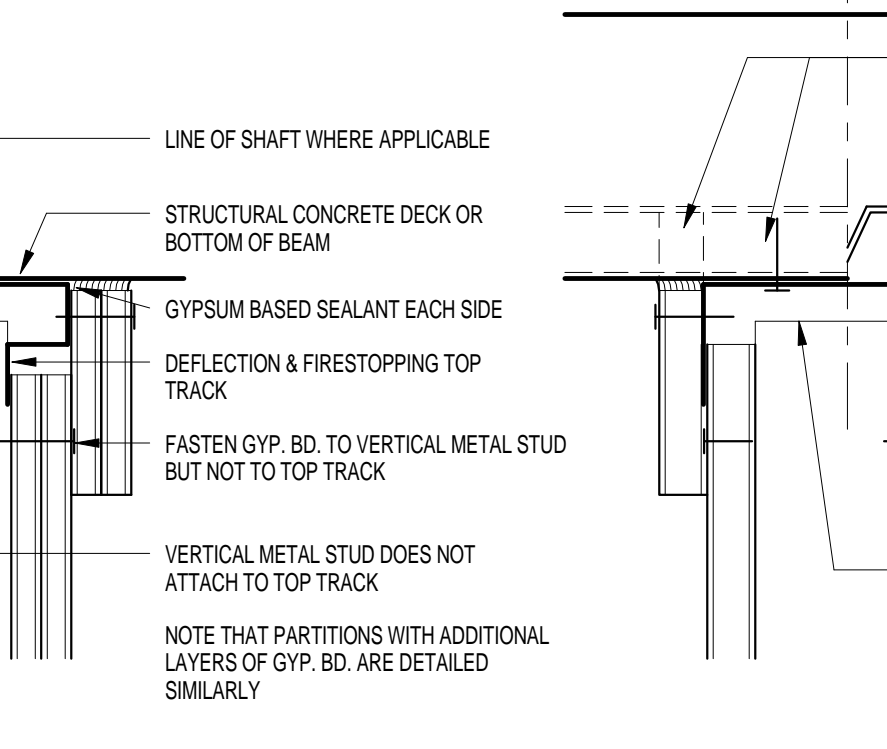
**DEFLECTION TRACK**  
NON RATED PARTITION @ STEEL BEAM (BOTH PARALLEL / PERPENDICULAR TO FLUTES SHOWN)



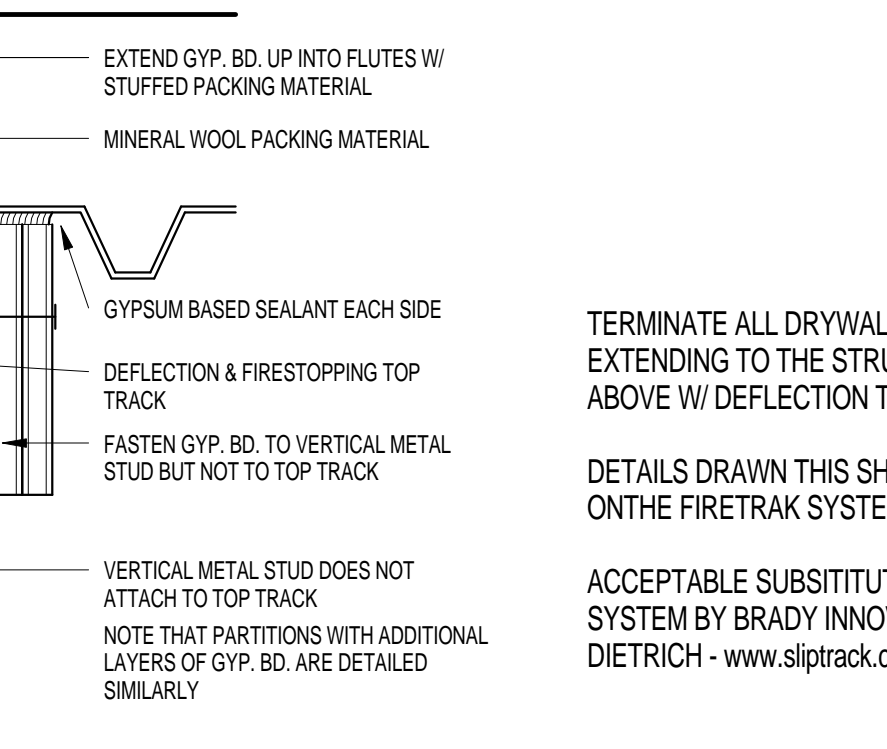
**DEFLECTION TRACK**  
RATED PARTITION @ BOTTOM OF CONCRETE DECK OR BEAM



**DEFLECTION TRACK**  
RATED PARTITION @ STEEL BEAM (BOTH PARALLEL / PERPENDICULAR TO FLUTES SHOWN)



**DEFLECTION TRACK**  
RATED SHAFTWALL PARTITION @ BOTTOM OF CONCRETE DECK OR BEAM



**DEFLECTION TRACK**  
RATED SHAFTWALL PARTITION @ BOTTOM OF CONCRETE DECK OR BEAM

TERMINATE ALL DRYWALL PARTITIONS EXTENDING TO THE STRUCTURAL DECK ABOVE W/ DEFLECTION TRACKS.

DETAILS DRAWN THIS SHEET ARE BASED ON THE FIRETRAK SYSTEM - www.firetrak.com

ACCEPTABLE SUBSTITUTE: SLIPTRACK SYSTEM BY BRADY INNOVATIONS | CLARK DIETRICH - www.sliptrack.com

REVISIONS			
No.	Date	TASK	BY

## ISSUE FOR PERMIT & PRICING

## HARRIS HEALTH SYSTEM

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT & ENGINEERS:



ARCHITECT:  
JOHNSTON, LLC  
MEP:  
JOHNSTON, LLC  
CIVIL:  
JOHNSTON, LLC



Firm Registration #:  
PROJECT TITLE:  
**SPRING BRANCH HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston, Tx 77055

SHEET TITLE:  
**PARTITION TYPES**

DATE: 11/04/13 DATE:

SHEET NUMBER:  
**A-001**

DRAWN BY: Author  
CHECKED BY: Checker  
SCALE: As indicated  
JOB NO:



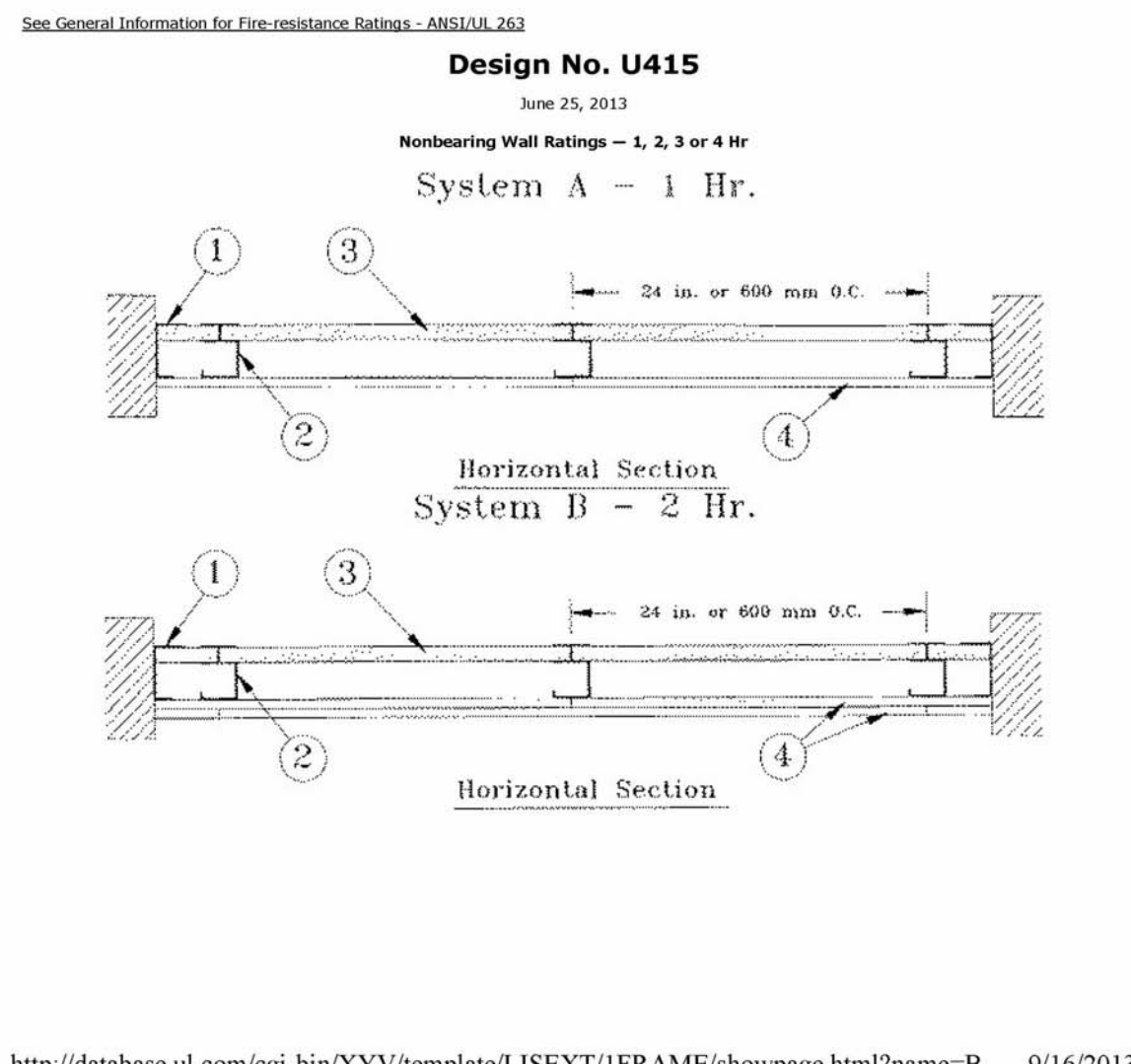




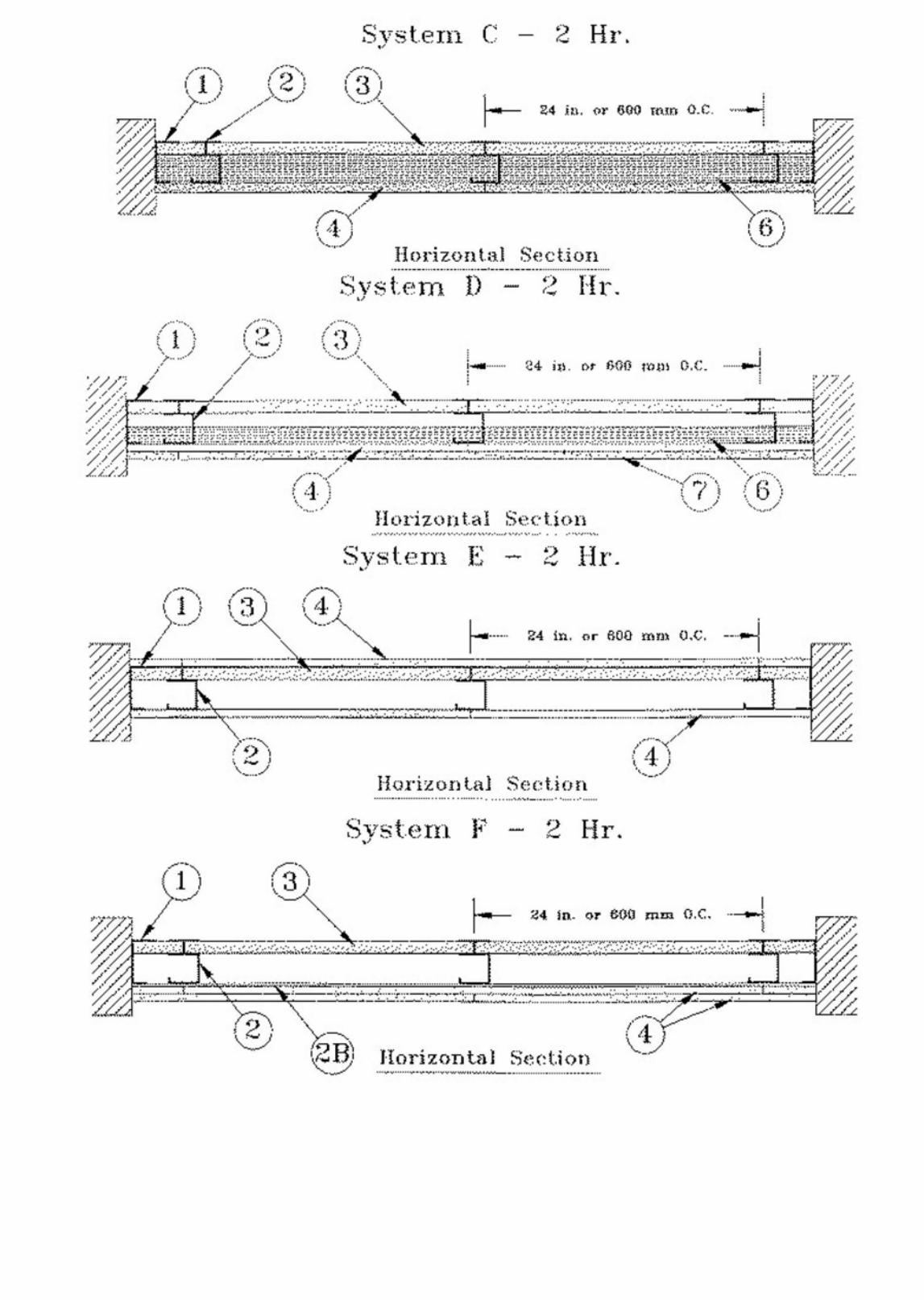


ONLINE CERTIFICATIONS DIRECTORY
Design No. U415
Fire-resistance Ratings - ANSI/UL 263
Design/System/Construction/Assembly Usage Disclaimer
Authorizing Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, systems, devices, and materials.

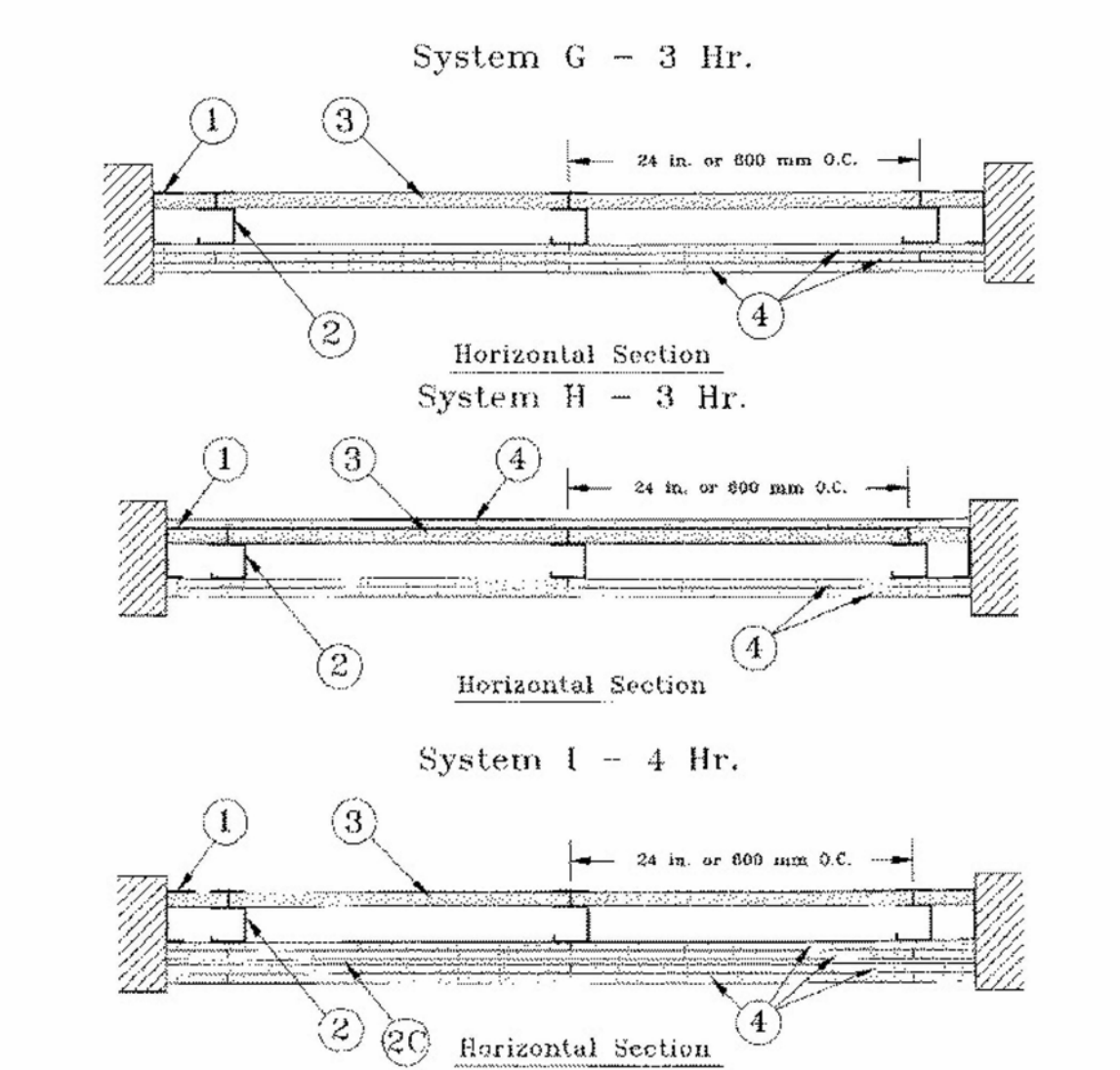
Fire-resistance Ratings - ANSI/UL 263



http://database.ul.com/cgi-bin/XYV/template/LISEXT/IFRAME/showpage.html?name=B... 9/16/2013
BXUV.U415 - Fire-resistance Ratings - ANSUL 263 Page 2 of 8



http://database.ul.com/cgi-bin/XYV/template/LISEXT/IFRAME/showpage.html?name=B... 9/16/2013
BXUV.U415 - Fire-resistance Ratings - ANSUL 263 Page 3 of 8



1. Floor, Sill and Ceiling Runners - "F" - shaped member, min 2-1/2 in. deep (min 4 in. deep when System C is used), with nominal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when System C is used), fabricated from min 24 MSG (min 20 MSG when System C is used), 4 in. x 1/4 in. (3 in. x 1/4 in. when System C is used). Cut to length 5/8 in. to 1/2 in. less than floor to ceiling height and spaced 24 in. or 600 mm O.C.
2. Furring Channels - (Optional, Not Shown) - For use with single or double layer systems. Backfill furring channels fabricated from min 24 MSG (min 20 MSG when System C is used), installed horizontally, and spaced vertically a max 24 in. O.C. These portions of channel attached to each intersecting "C" or "F" stud on side of stud opposite the 1 in. leg. Panels with 1/2 in. leg Type 5 or 5-1/2 pan head steel screws, when furring channels are used, installed to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB (Item 4A), Type Neko (Item 4B) or cementitious backer units (Item 7).

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JC. Furring Channels - For use with System 1. "H" - shaped, 25 MSG galv steel furring channels attached directly over the lower flange of wallboard to each stud with 2 in. long Type 5 pan head steel screws. Screws alternate from top flange to bottom flange of each stud intersection. Furring channels spaced vertically max 24 in. O.C.
JD. Steel Framing Members\* - (Optional, Not Shown) - For use with single or double layer systems. Furring channels and steel framing members as described below. For use with Type FRX-G gypsum wallboard, Type RB (Item 4A), Type Neko (Item 4B) or cementitious backer units (Item 7).

2E. Steel Framing Members\* - (Optional, Not Shown) - Furring channels and resilient sound isolation clip as described below.
a. Furring Channels - Formed of No. 25 MSG galv steel, 2-1/2 in. x 2-1/2 in. x 2-1/2 in. wide by 7/8 in. deep, spaced max 24 in. O.C. perpendicular to studs. Channels secured to studs as described in Item 5. Gypsum board installed vertically only and attached to furring channels as described in Item 5.

3. Gypsum Board\* - Gypsum fiber panels, max 1/2 in. thick, 24 in. x 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type 5 steel screws spaced 24 in. O.C. when installed horizontally or 12 in. O.C. when installed vertically. Outer or face layer attached to studs with 1-1/4 in. long Type 5 steel screws spaced 12 in. O.C. when installed horizontally or 12 in. O.C. when installed vertically. Horizontal joints need not be backed by steel framing. Vertical joints covered over studs and staggered 24 in.
CGC INC - Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCS, SHK, ULX, WRC, WWC
UNITED STATES GYPSUM CO - Type SLX
USG MEXICO S A DE C V - Type SLX

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BXUV.U415 - Fire-resistance Ratings - ANSUL 263 Page 5 of 8

CGC INC - 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCS, SHK, ULX, WRC, WWC
UNITED STATES GYPSUM CO - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCS, SHK, ULX, WRC, WWC
USG MEXICO S A DE C V - 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCS, SHK, ULX, WRC, WWC
CGC INC - Types IP-X3, or ULTRACODE
UNITED STATES GYPSUM CO - Types IP-X3, or ULTRACODE
USG MEXICO S A DE C V - Types IP-X3, or ULTRACODE

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BXUV.U415 - Fire-resistance Ratings - ANSUL 263 Page 6 of 8

CGC INC - 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCS, SHK, ULX, WRC, WWC
UNITED STATES GYPSUM CO - 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCS, SHK, ULX, WRC, WWC
USG MEXICO S A DE C V - 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCS, SHK, ULX, WRC, WWC
CGC INC - Types C, IP-X2, IPC-AR, WRC
UNITED STATES GYPSUM CO - Types C, IP-X2, IPC-AR, WRC
USG MEXICO S A DE C V - Types C, IP-X2, IPC-AR, WRC
CGC INC - Types IP-X3, or ULTRACODE
UNITED STATES GYPSUM CO - Types IP-X3, or ULTRACODE
USG MEXICO S A DE C V - Types IP-X3, or ULTRACODE

4A. Gypsum Board\* - (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only.) Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints covered over studs and staggered min 1 stud center on opposite side of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-1/2 pan head steel screws spaced 8 in. O.C. perimeter and 12 in. O.C. in the field. For Joint Compound see Item 5. To be used with Lead Bottom Strips (see Item 9) or Lead Clips (see Item 10).

4B. Gypsum Board\* - (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only.) Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints covered over studs and staggered min 1 stud center on opposite side of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-1/2 pan head steel screws spaced 8 in. O.C. perimeter and 12 in. O.C. in the field. For Joint Compound see Item 5. To be used with Lead Bottom Strips (see Item 9) or Lead Clips (see Item 10).

4C. Gypsum Board\* - (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only.) Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints covered over studs and staggered min 1 stud center on opposite side of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-1/2 pan head steel screws spaced 8 in. O.C. perimeter and 12 in. O.C. in the field. For Joint Compound see Item 5. To be used with Lead Bottom Strips (see Item 9) or Lead Clips (see Item 10).

4D. Gypsum Board\* - (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only.) Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints covered over studs and staggered min 1 stud center on opposite side of studs. Wallboard secured to studs with 1-1/4 in. long Type 5-1/2 pan head steel screws spaced 8 in. O.C. perimeter and 12 in. O.C. in the field. For Joint Compound see Item 5. To be used with Lead Bottom Strips (see Item 9) or Lead Clips (see Item 10).

http://database.ul.com/cgi-bin/XYV/template/LISEXT/IFRAME/showpage.html?name=B... 9/16/2013
BXUV.U415 - Fire-resistance Ratings - ANSUL 263 Page 8 of 8

5. Lead Bottom Strips - (Not Shown, For Use With Item 4A) - Lead bottom strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.12 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with min 1 in. long Type 5-1/2 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead bottom strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Lead bottom strips, min 2 in. wide, max 10 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type 5-1/2 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead strips to have a purity of 99.9% meeting the Federal Specification QQ-L-2011, Grade "C".

6. Lead Discs or Tabs - (Not Shown, For Use With Item 4A) - Used in lieu of or in addition to the lead bottom strips (Item 5) at remaining stud locations. Max 24 in. diam by min 1/2 in. thick lead discs or tabs placed on gypsum boards (Item 4A) and secured under lead bottom strips. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-2011, Grade "C".

7. Cementitious Backer Units\* - (Optional, Not Shown) - Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-1/4 in. long, Type 5-1/2, corrosion resistant steel screws spaced 8 in. O.C. and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud center from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.
UNITED STATES GYPSUM CO - Type DCB

http://database.ul.com/cgi-bin/XYV/template/LISEXT/IFRAME/showpage.html?name=B... 9/16/2013

8. Lead Bottom Strips - (Not Shown, For Use With Item 4A) - Lead bottom strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.12 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with min 1 in. long Type 5-1/2 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead bottom strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Lead bottom strips, min 2 in. wide, max 10 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with min 1 in. long, Type 5-1/2 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type 5-1/2 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead strips to have a purity of 99.9% meeting the Federal Specification QQ-L-2011, Grade "C". Lead bottom strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations.

Table with 4 columns: No., Date, TASK, BY. It is currently empty.

ISSUE FOR PERMIT & PRICING

HARRIS HEALTH SYSTEM
2525 Holly Hall Street, Houston, TX 77054

ARCHITECT & ENGINEERS:



ARCHITECT: Johnston, LLC
MEP: Johnston, LLC
CIVIL: Johnston, LLC



Firm Registration #: PROJECT TITLE: SPRING BRANCH HEALTH CENTER

PROJECT LOCATION: 9801 Long Point, Houston, TX 77055

SHEET TITLE: UL RATINGS

DATE: 11/04/13 DATE:

SHEET NUMBER: AF-103

DRAWN BY: Author Author
SCALE: 12" = 1'-0"
CHECKED BY: Checker
JOB NO:





Design No. U904
BXUV.U904
Fire Resistance Ratings - ANS/UL 263

Page Bottom

Design/System/Construction/Assembly Usage Disclaimer

- Authorize Having Installation should be considered in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, services, and materials.
• Authorize Having Installation should be considered before construction.
• Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot address every construction nuance encountered in the field.
• When full design data is submitted the test criteria for assemblies in the horizontal service shall provided by the product manufacturer noted for the design. Lists of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
• Only products which bear UL's Mark are considered Certified.

Fire Resistance Ratings - ANS/UL 263

See General Information for Fire Resistance Ratings - ANS/UL 263

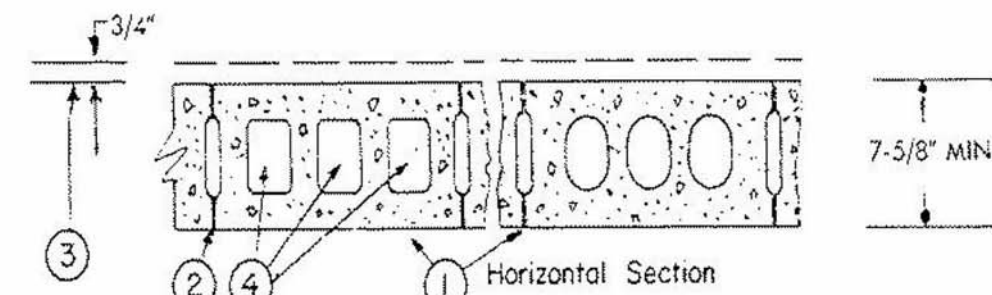
Design No. U904

September 30, 2013

Bearing Wall Rating - 3 HR.

Nonbearing Wall Rating - 3 HR.

Load Restricted for Canadian Applications - See Guide BXUVZ



- 1. Concrete Blocks\* - Various designs. Classification C-3 (3 hr).
See Concrete Blocks category for list of eligible manufacturers.
2. Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.
3. Portland Cement Slucco or Gypsum Plaster - Add 1/2 hr to Classification if used. Attached to concrete blocks (Item 1).
4. Loose Masonry Fill - If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Stony Kib Process), water repellent vermiculite masonry fill insulation, or silica treated perlite loose fill insulation add 1 hr to Classification.
5. Framed Plastic\* - (Optional Not Shown) - 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).
THE DOW CHEMICAL CO. - Type Therman Sheathing, Therman Light Duty Insulation, Therman Heavy Duty Insulation, Therman Metal Building Board, Therman White Finish Insulation, Therman O Exterior Insulation, Therman SH Insulation, Therman Plus Loose Filled and Therman Heavy Duty Plus (HPF)

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BXUV U904 - Fire Resistance Ratings - ANS/UL 263 Page 2 of 2

\*Bearing the UL Classification Mark
Last Updated on 2010-09-30

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Design No. U906
BXUV.U906
Fire Resistance Ratings - ANS/UL 263

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• Authorize Having Installation should be considered before construction.
• Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot address every construction nuance encountered in the field.
• When full design data is submitted the test criteria for assemblies in the horizontal service shall provided by the product manufacturer noted for the design. Lists of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
• Only products which bear UL's Mark are considered Certified.

Fire Resistance Ratings - ANS/UL 263

See General Information for Fire Resistance Ratings - ANS/UL 263

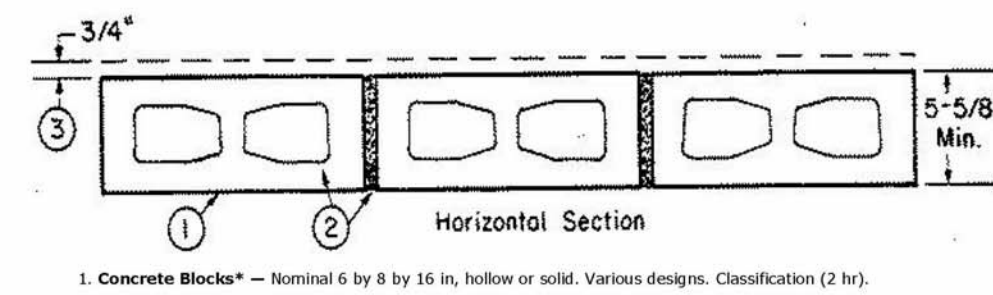
Design No. U906

September 30, 2013

Bearing Wall Rating - 2 HR.

Nonbearing Wall Rating - 2 HR.

Load Restricted for Canadian Applications - See Guide BXUVZ



- 1. Concrete Blocks\* - Nominal 6 by 8 by 16 in. hollow or solid. Various designs. Classification (2 hr).
See Concrete Blocks category for list of eligible manufacturers.
ANCHOR CONCRETE PRODUCTS INC
GAGNE & SON CONCRETE BLOCK INC
GLENNWOOD MASONRY PRODUCTS
Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.
PRODUCTS
OLDCASTLE APG SOUTH INC, DBA ADAMS
WESTBROOK CONCRETE BLOCK CO INC
Allowable compressive stress of 75.6% of max allowable compressive stress in accordance with the empirical design method.
2. Mortar - Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

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BXUV U906 - Fire Resistance Ratings - ANS/UL 263 Page 2 of 2

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Last Updated on 2010-09-30

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ISSUE FOR PERMIT & PRICING



HARRIS HEALTH SYSTEM
2525 Holly Hall Street,
Houston, Tx 77054

ARCHITECT & ENGINEERS:



ARCHITECT: JOHNSTON, LLC
MEP: JOHNSTON, LLC
CIVIL: JOHNSTON, LLC



Firm Registration #:
PROJECT TITLE:
SPRING BRANCH
HEALTH CENTER

PROJECT LOCATION:
9801 Long Point, Houston,
Tx 77055

SHEET TITLE:
UL RATINGS

DATE: 11/04/13 DATE:

SHEET NUMBER:
AF-104

DRAWN BY: SCALE:
Author 12" = 1'-0"
CHECKED BY: JOB NO:
Checker

REVISIONS

No.	Date	TASK	BY

ISSUE FOR PERMIT &  
PRICING



HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT & ENGINEERS:



ARCHITECT:  
JOHNSTON, LLC  
MEP:  
JOHNSTON, LLC  
CIVIL:  
JOHNSTON, LLC



Firm Registration #:  
PROJECT TITLE:  
**SPRING BRANCH  
HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston,  
Tx 77055

SHEET TITLE:  
**LEVEL 1 DEMOLITION  
PLAN**

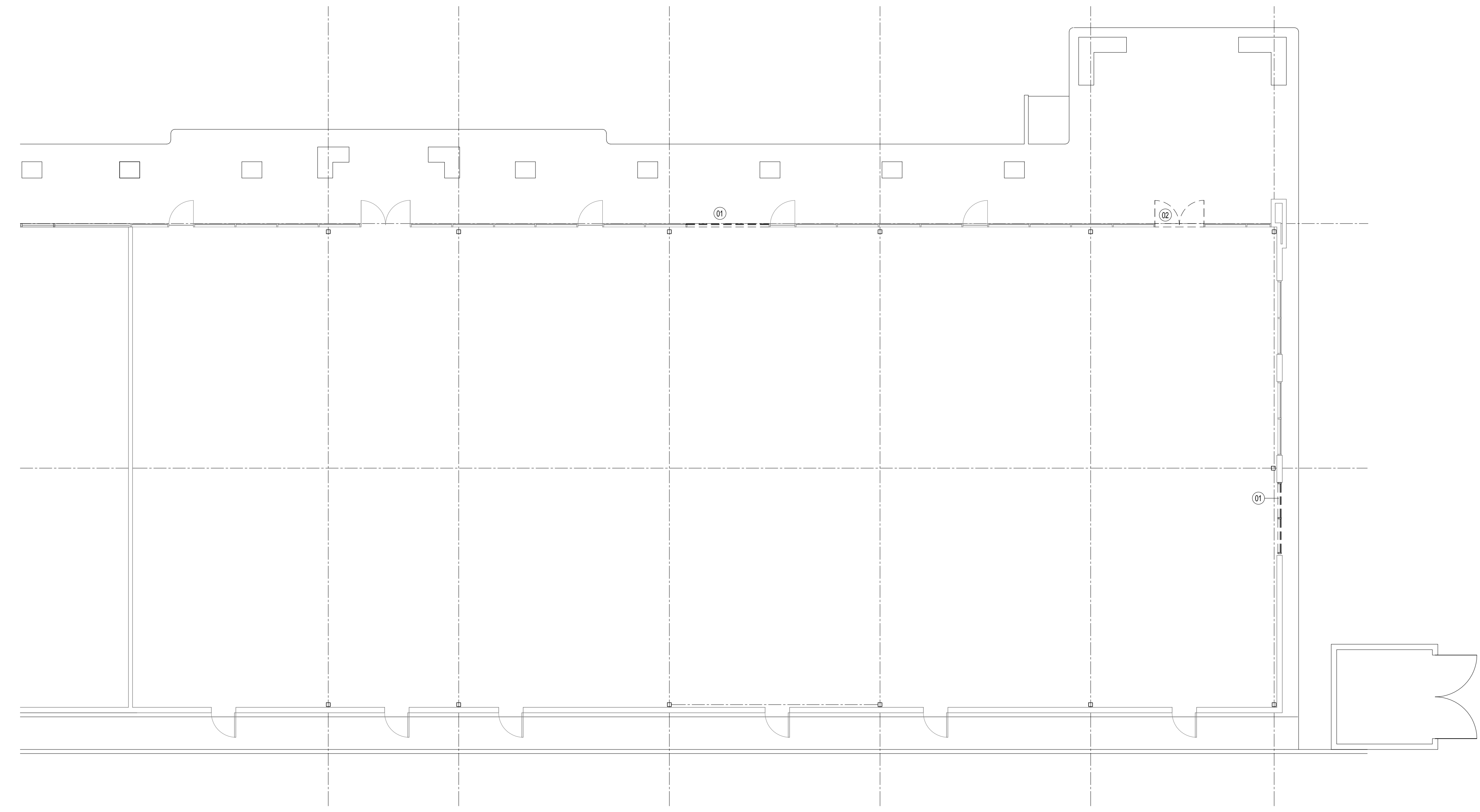
DATE: 11/04/13 DATE:

SHEET NUMBER:  
**AD-101**

DRAWN BY: Author  
CHECKED BY: Checker  
SCALE: As indicated  
JOB NO:

DEMOLITION PLAN GENERAL NOTES	
A.	SHADED AREAS DENOTE GENERAL LIMITS OF CONSTRUCTION.
B.	EXISTING CONSTRUCTION TO BE REMOVED SHOWN DASHED.
C.	COORDINATE MEP DEMOLITION WITH DRAWINGS & REQUIREMENTS FOR NEW WORK.
D.	NOT ALL NUMBERED NOTES NECESSARILY APPLY TO THIS SHEET.
E.	COORDINATE OWNER WALK THRU TO IDENTIFY ALL ITEMS TO BE SALVAGED FOR THE OWNER'S RE-USE, INCLUDING BUT NOT LIMITED TO MEDICAL EQUIPMENT, FRAMED DOCUMENTS, SIGNS, GRAPHIC ART, ETC. REMOVE ITEMS THUSLY IDENTIFIED AND GIVE TO OWNER OR STORE FOR RE-USE AT THEIR DIRECTION.

DEMOLITION PLAN NOTES BY NUMBER	
①	REMOVE EXISTING STOREFRONT FRAMING & MODIFY AS REQUIRED FOR NEW DOOR
②	REMOVE EXISTING DOUBLE DOORS FOR REINSTALLATION THIS PROJECT



① LEVEL 1 DEMOLITION PLAN  
1/8" = 1'-0"

REVISIONS			
No.	Date	TASK	BY

ISSUE FOR PERMIT & PRICING



HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, TX 77054

ARCHITECT & ENGINEERS:



2000 WINDING DRIVE  
SUITE 800  
HOUSTON, TX 77057  
713.933.3460  
www.johnstonllc.com  
Engineers - Architects - Planners - Managers

ARCHITECT:  
Johnston, LLC  
MEP:  
Johnston, LLC  
CIVIL:  
Johnston, LLC



Firm Registration #: 110413  
PROJECT TITLE:  
SPRING BRANCH  
HEALTH CENTER

PROJECT LOCATION:  
9801 Long Point, Houston,  
TX 77055

SHEET TITLE:  
LEVEL 1 FLOOR PLAN &  
REFLECTED CEILING  
PLAN

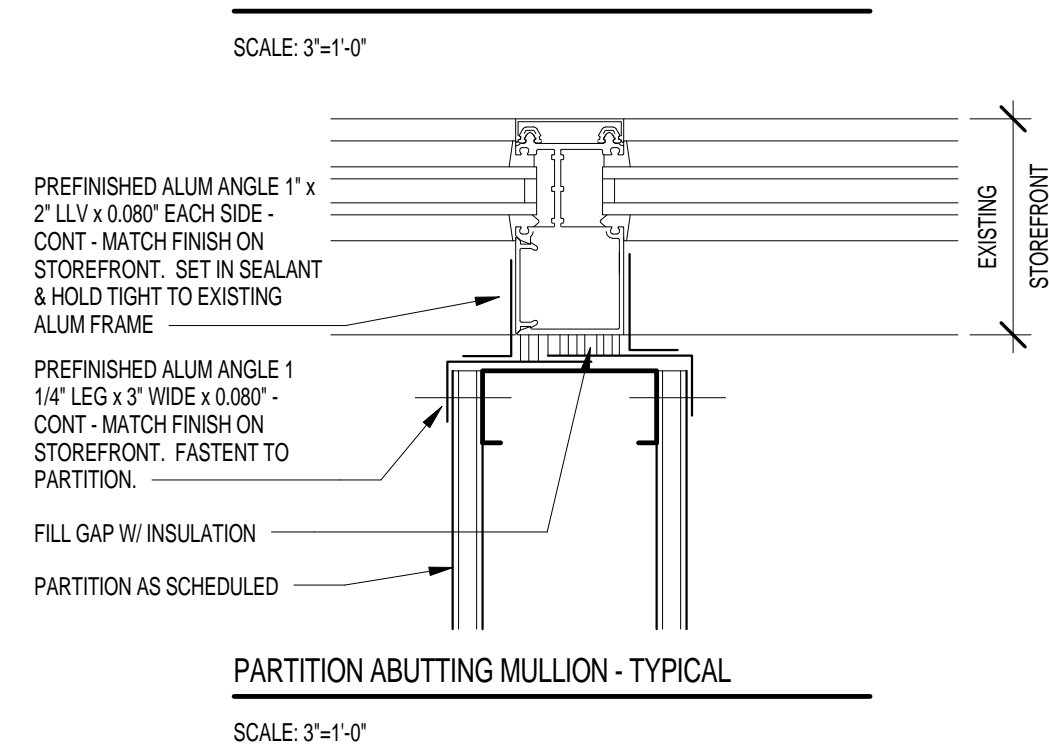
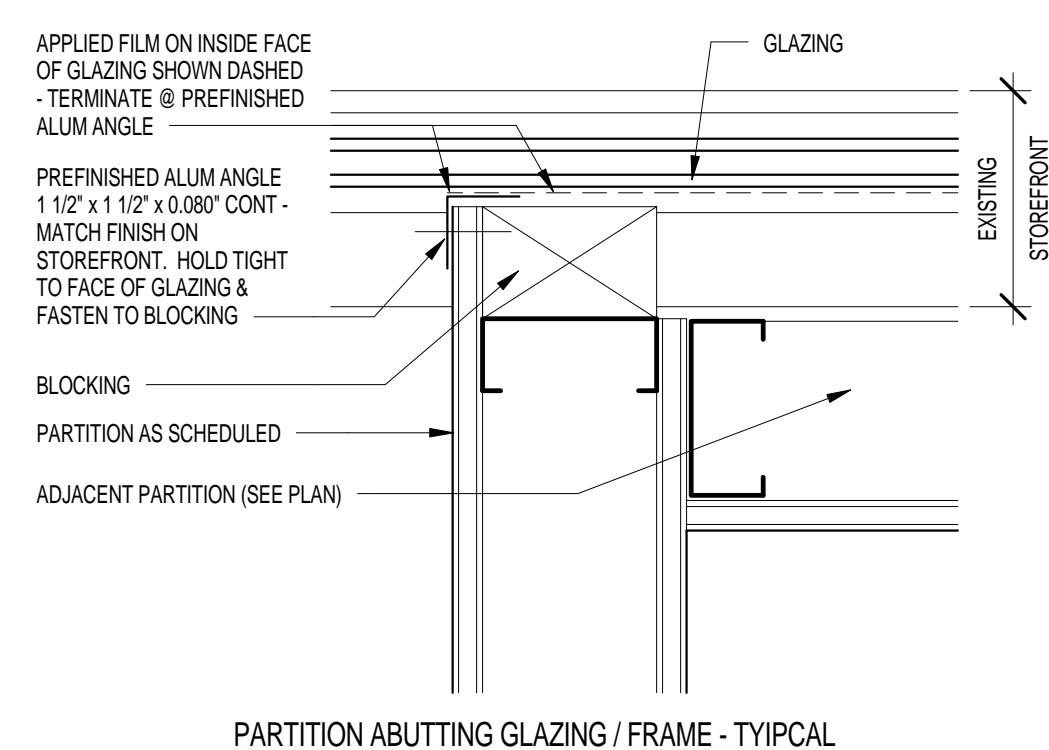
DATE: 11/04/13 DATE:

SHEET NUMBER:

A-101

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CHECKED BY: Checker

SCALE: As indicated  
JOB NO:

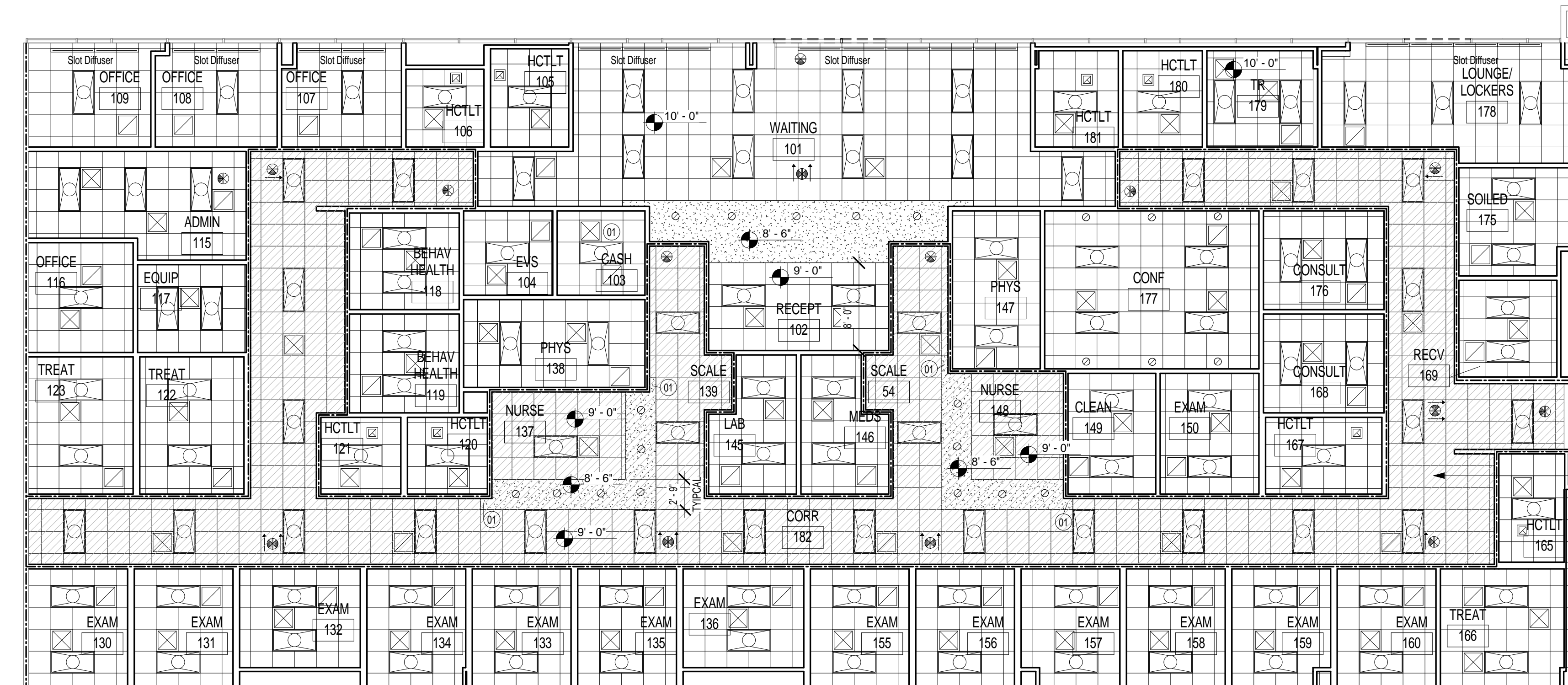


RCP LEGEND	
	2 X 2 CEILING TILE & GRID
	GYPSUM BOARD
	2 X 4 LIGHT FIXTURE
	2 X 2 LIGHT FIXTURE
	RECESSED CAN LIGHT FIXTURE
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST GRILLE

**RCP GENERAL NOTES**  
A. SHADED AREAS DENOTE GENERAL LIMITS OF CONSTRUCTION.  
B. ALL CEILINGS AT 10'-0" A.F.F. UNO.  
C. PTM AND MAINTAIN ALL FIRE RATINGS FOR PARTITIONS & FLOORS / ROOFS WHERE PIPES, CONDUITS, DUCTS, ETC., HAVE BEEN REMOVED.  
D. ALL DRYWALL FURRED/ROWS @ 8'-11" A.F.F. UNO.

**RCP NOTES BY NUMBER**  
101 PROVIDE HOLD DOWN CLIPS AT 14" IN CEILING THIS ROOM

3 Typ Partition Abutting Glass / Mullion 3/4 = 1'-0"

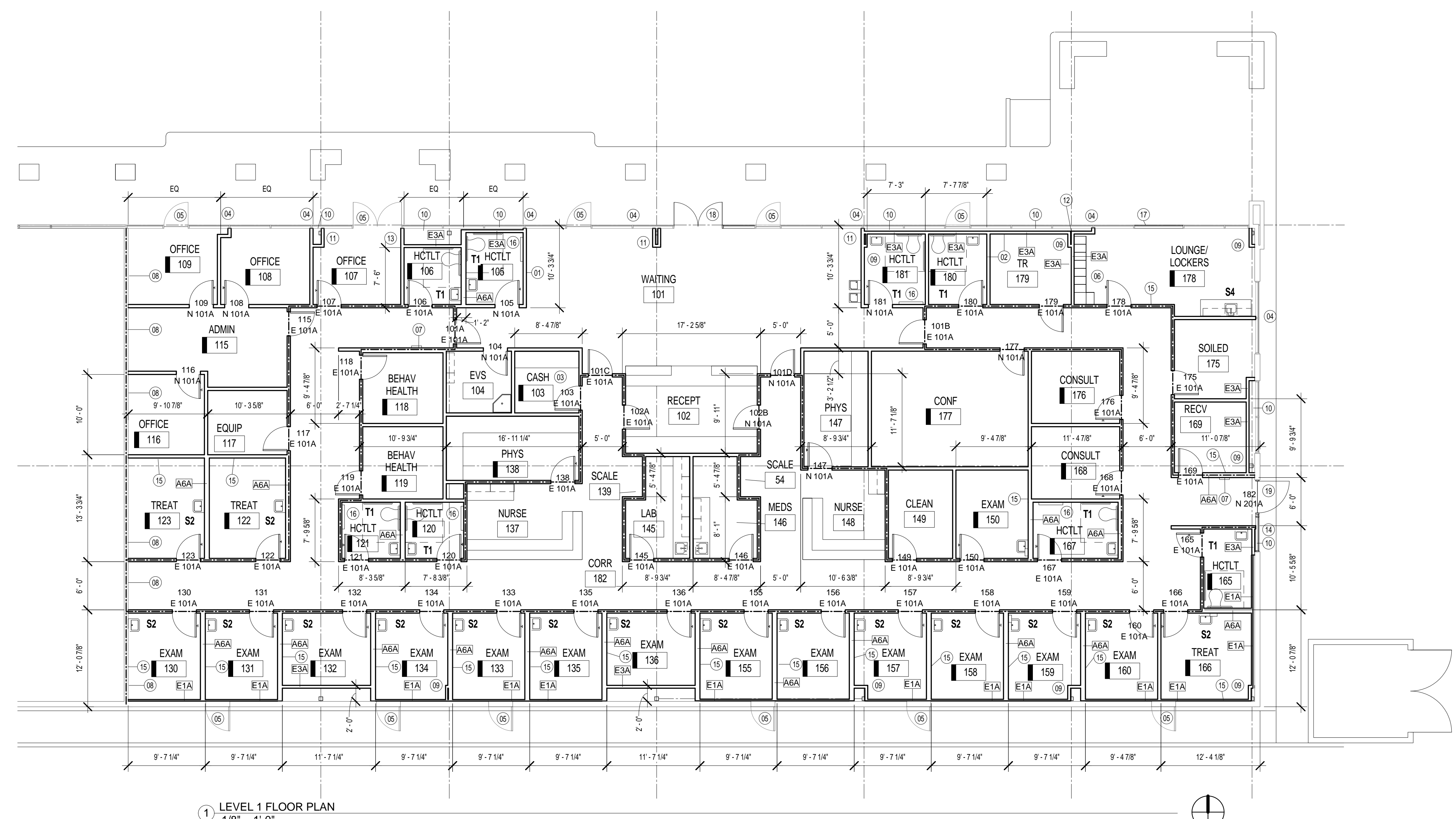


HATCHED AREA ABOVE MAIN CORRIDORS DENOTES A 1-HOUR FIRE RATED GYPSUM BOARD SUB-CEILING. -5/8" GYPSUM BOARD EACH SIDE OF 3/8" 20 GAGE METAL STUDS @ 16" O.C. - BOTTOM OF SUB-CEILING AT 11'-7" A.F.F.

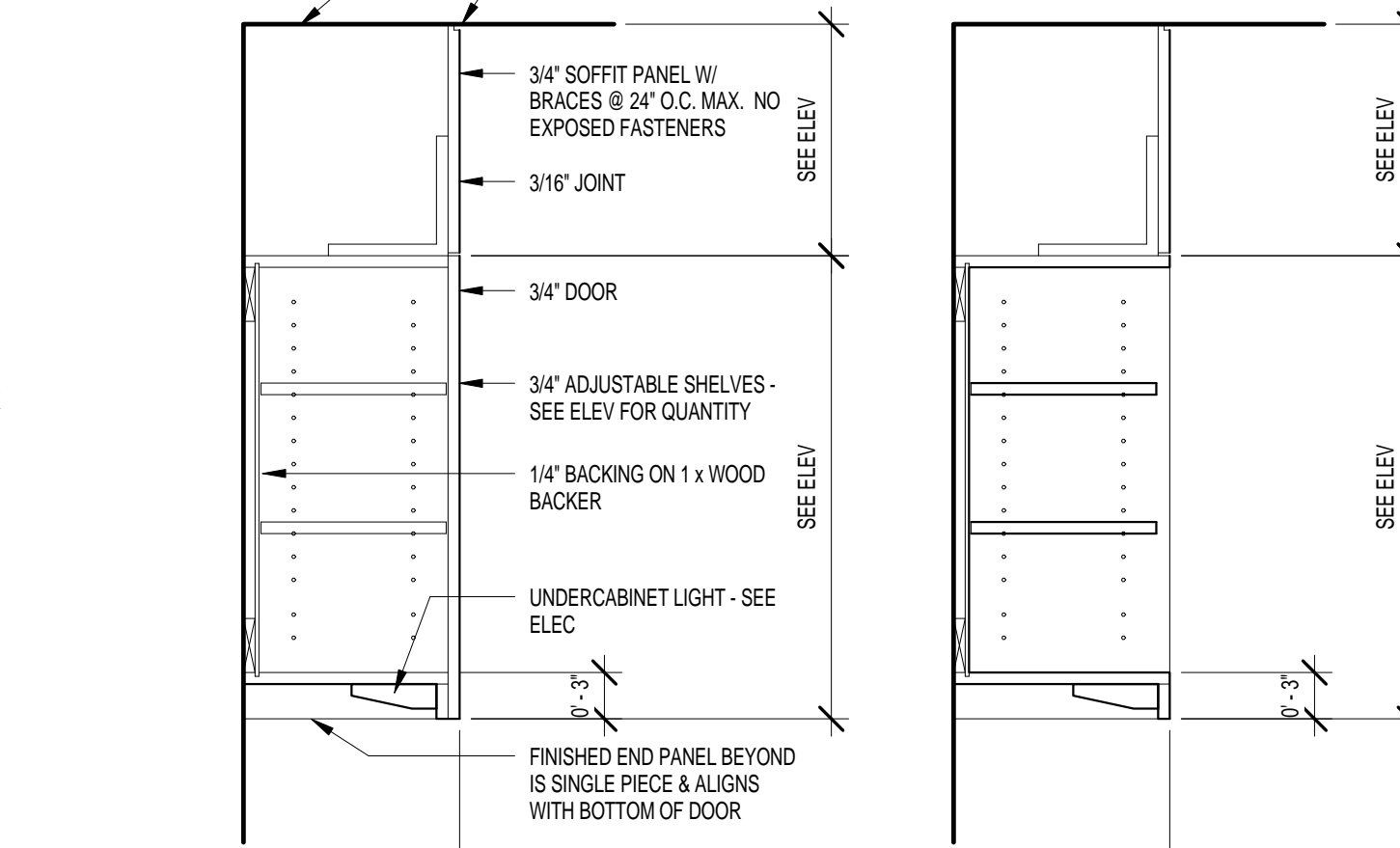
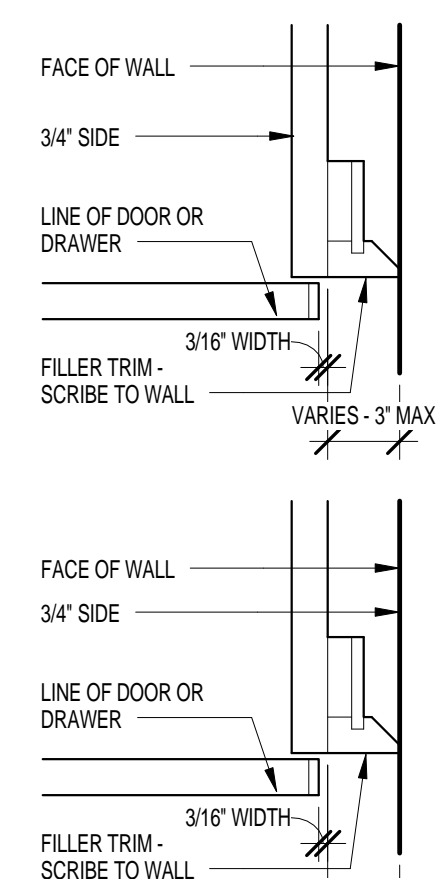
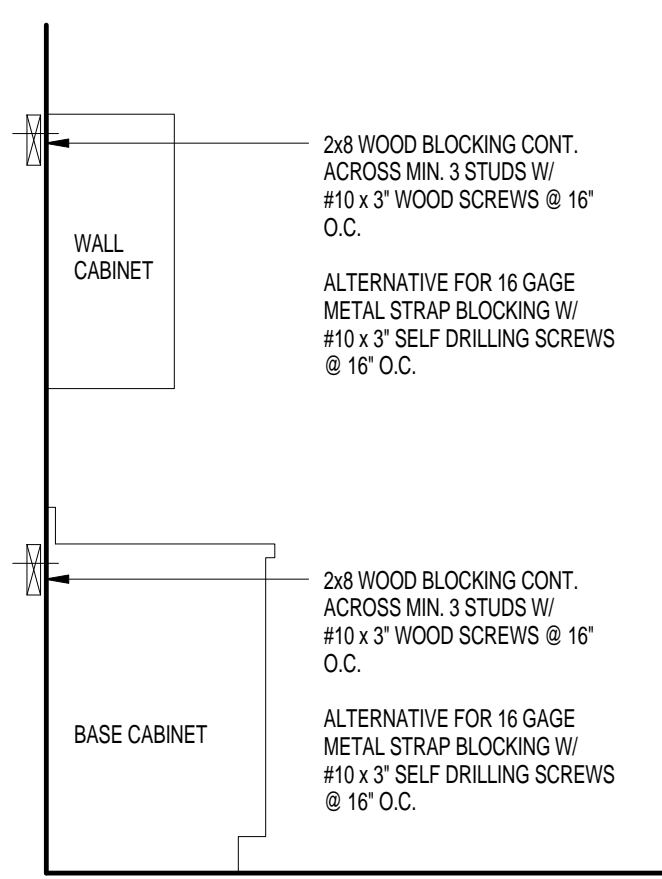
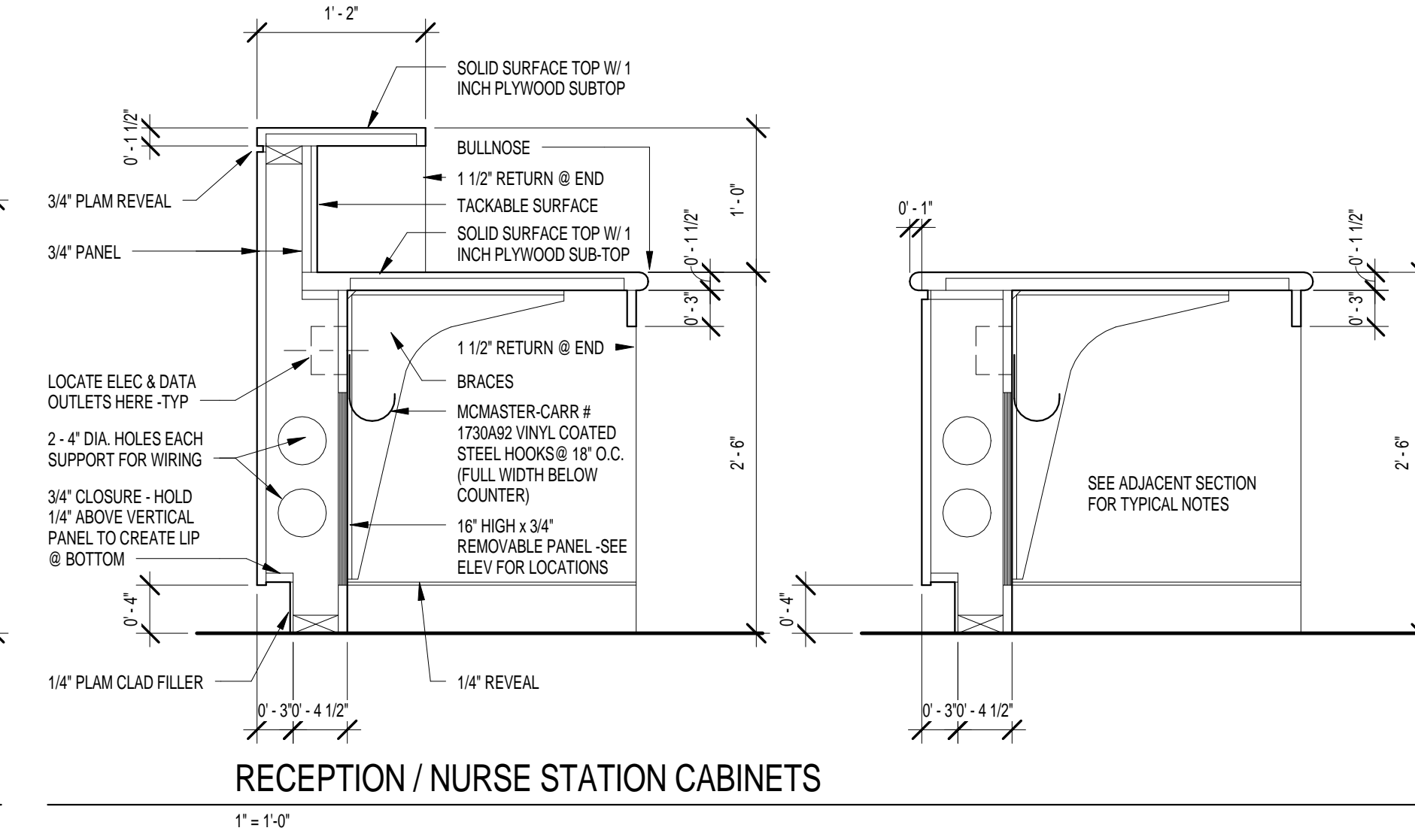
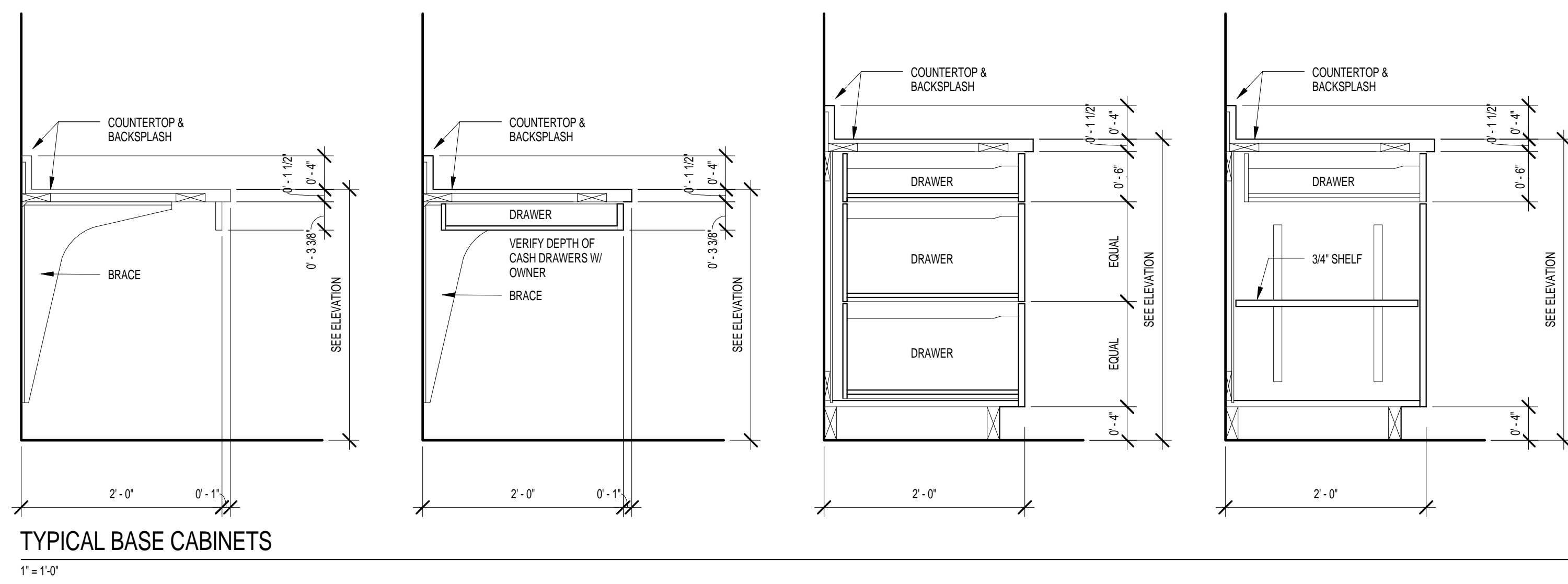
2 LEVEL 1 RCP 1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES	
A.	SHADED AREAS DENOTE GENERAL LIMITS OF CONSTRUCTION.
B.	ALL INTERIOR PARTITIONS ARE TYPE "ASA" AND EXTEND TO 12'-0" A.F.F. UNO.
C.	PROVIDE 5/8" GYPSUM BOARD ALL EXTERIOR WALLS. EXTEND & SEAL TO STRUCTURAL DECK ABOVE. SEAL ALL PENETRATIONS TIGHT. PROVIDE ADDL UNPACKED BATT INSULATION WHERE MISSING TO PROVIDE A COMPLETE THERMAL ENCLOSURE.
D.	PTM AND MAINTAIN ALL FIRE RATINGS FOR PARTITIONS & FLOORS / ROOFS WHERE PIPES, CONDUITS, DUCTS, ETC., HAVE BEEN REMOVED.

FLOOR PLAN NOTES BY NUMBER	
101	WALL MOUNTED TV - CENTER ON WALL PLANE. PROVIDE 2 LAYERS OF 3/4 PLYWOOD BLOCKING 18" HIGH BETWEEN 16 GAGE METAL STUDS. CENTER PLYWOOD HORIZ & VERTICALLY ON TV MOUNT. ATTACH TO EACH STUD W/ MINIMUM 4 SCREW FASTENERS X 3" LONG.
102	PROVIDE 3/4" PLYWOOD THE FULL WIDTH OF THIS WALL PLANE 8'-0" HIGH.
103	PROVIDE 5/8" USG AQUA TOUGH FIBERROCK GYPSUM BOARD ALL WALLS THIS ROOM - FULL HEIGHT OF PARTITION.
104	CENTER NEW PARTITION ON MULLION - SEE 304-101.
105	EXISTING DOOR TO REMAIN. REMOVE EXISTING DOOR HANDLES & GIVE TO BUILDING OWNER. LOCK DOOR.
106	PROVIDE 3 TRIPS E TIER LOCKERS (4 LOCKERS TOTAL - 17" X 17" HIGH W/ SLOPED TOPS. SET LOCKERS ON 4 INCH HIGH WOOD BASE - HOLD FRONT OF WOOD BASE 1/4 INCH BEHIND FACE OF LOCKERS. PROVIDE CLOSURE PANELS / TRIM TO ABUTTING WALLS.
107	FIRE EXTINGUISHER & CABINET (FEC)
108	PROVIDE 5/8" GYPSUM BOARD OVER EXISTING METAL STUDS. EXTEND & SEAL TO STRUCTURAL DECK ABOVE TO PROVIDE A 1-HOUR FIRE RATING. PROVIDE ADDL BATT INSULATION WHERE MISSING.
109	HOLD PARTITION FRAMING TIGHT TO EXISTING COLUMN.
110	PROVIDE 3M FASARA GLASS FINISH - MAT CRYSTAL FILM ON INSIDE FACE OF GLAZING BEHIND PARTITION. DO NOT CLOSE OFF DRYWALL CONSTRUCTION AT TOP OF SPACE BETWEEN NEW PARTITION & EXTERIOR TO ALLOW AIR MOVEMENT. SEE TYPICAL DETAILS THIS SHEET FOR WALL CLOSURE AT EXTERIOR STOREFRONT.
111	INSTALL DRYWALL FRAMING TO FIT WITHIN EXISTING ALUM TRIM AT COLUMN FACE NEAR GLAZING.
112	CENTER PARTITIONS ON EXISTING COLUMN.
113	HOLD PARTITION AS FAR TOWARDS STOREFRONT / GLAZING AS POSSIBLE. NOTE REDUCED CEILING HEIGHT THIS ROOM.
114	SEE 304-101 FOR TYPICAL DETAIL OF PARTITION ABUTTING GLAZING / MULLIONS.
115	WALL MOUNTED PC ON ERGOTRON SUPPORT BRACKET - PROVIDE 2 LAYERS OF 3/4 PLYWOOD BLOCKING 16" WIDE BY 1/2 GAGE METAL STUDS. CENTER PLYWOOD ON BRACKET & EXTEND FROM 24" A.F.F. TO 72" A.F.F. ATTACH TO EACH STUD W/ MINIMUM 4 SCREW FASTENERS X 3" LONG.
116	EXAM ROOMS 130, 131, 132, 133, 134, 135: CENTER 60 INCHES FROM SOUTH WALL
117	EXAM 150: CENTER 60 INCHES FROM NORTH WALL
118	TREATMENT ROOM 180: CENTER 60" FROM EAST WALL
119	TREATMENT ROOM 122, 123: CENTER 60" FROM WEST WALL
120	REC'D: CENTER ON WALL PLANE
121	LOUNGE/ LOCKERS 178: CENTER ON WALL PLANE
122	CONF 177: CENTER 42 INCHES FROM DOOR
123	TA16A - BABY CHANGING STATION (SEE SHEET A-203 FOR DESCRIPTION)
124	PROVIDE NEW STOREFRONT FRAMING & GLAZING AS REQUIRED WHERE DOOR WAS REMOVED. MATCH EXISTING APPEARANCE.
125	MODIFY EXISTING STOREFRONT FRAMING & GLAZING AS REQUIRED TO REINSTALL EXISTING DOUBLE DOORS. MATCH EXISTING APPEARANCE.
126	MODIFY EXISTING STOREFRONT FRAMING & GLAZING AS REQUIRED FOR NEW DOOR.



1 LEVEL 1 FLOOR PLAN 1/8" = 1'-0"



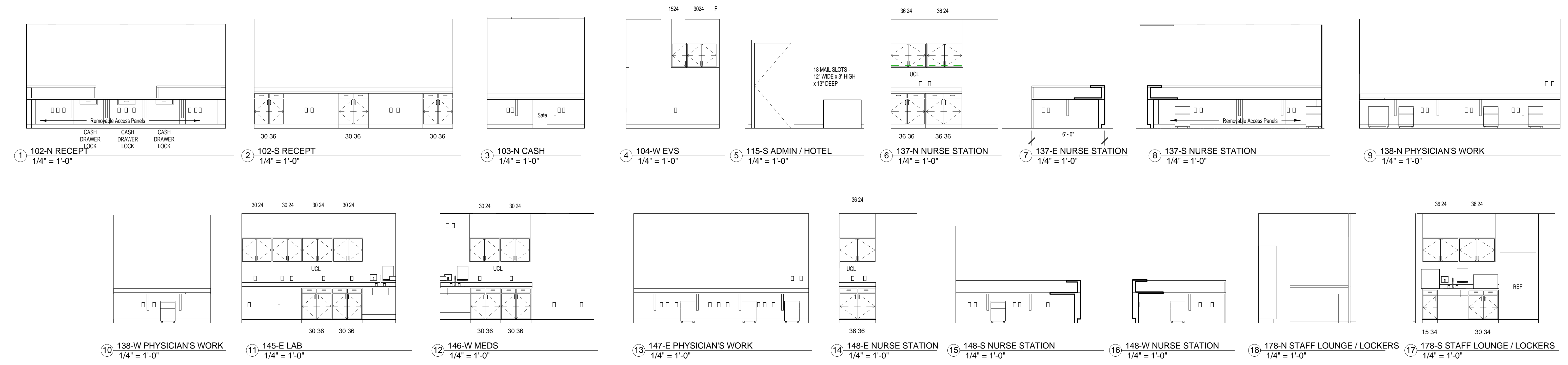
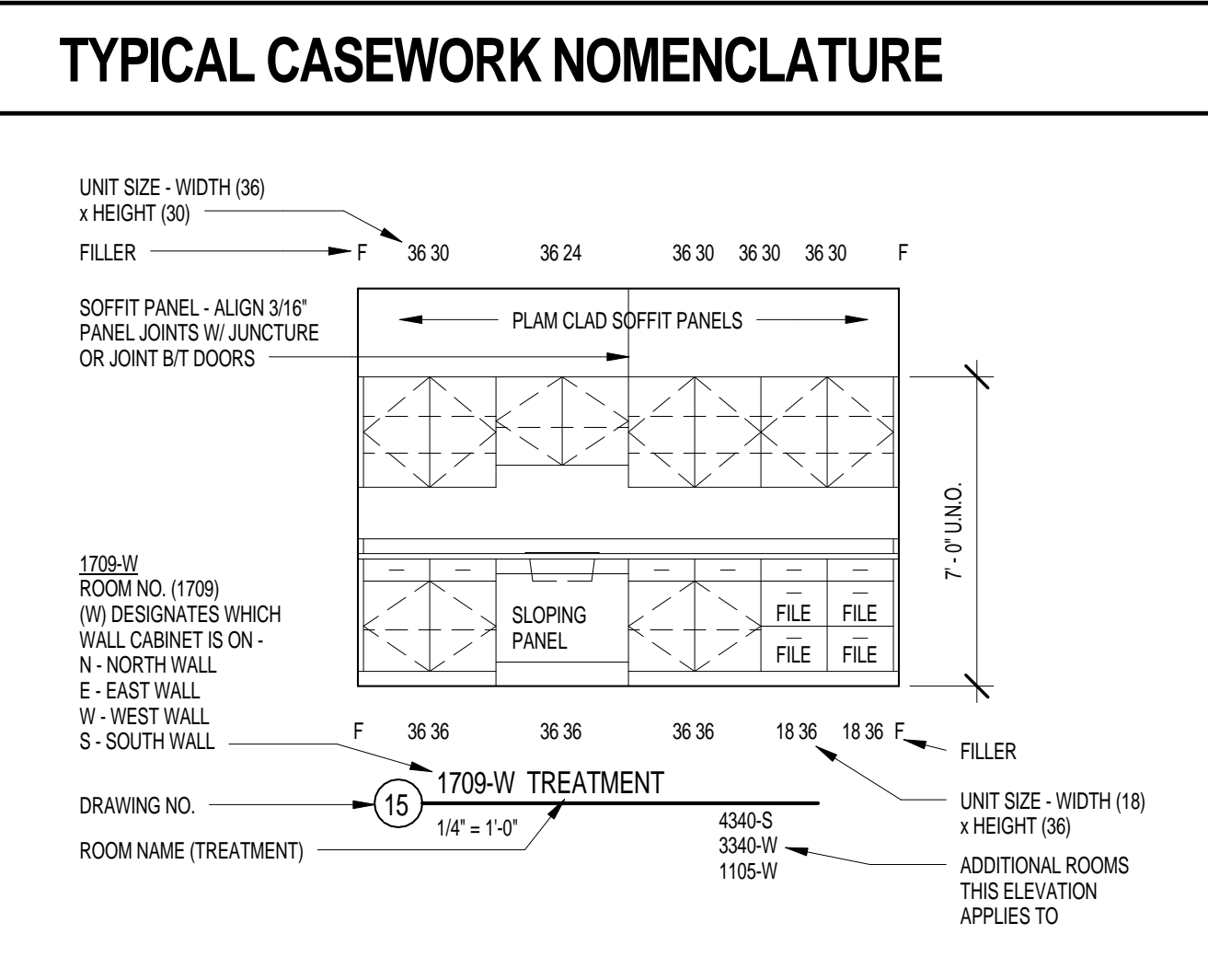
**CABINETRY NOTES**

**GENERAL**  
REFER TO INTERIOR ELEVATIONS ON A6.x SHEETS WHERE THE DRAWING NAME IDENTIFIES THE ROOM AND WALL (N-NORTH, S-SOUTH, E-EAST, AND W-WEST) ON WHICH THE CABINETRY IS LOCATED. REFER ALSO TO THE FLOOR PLANS.  
SPECIALIZED CABINET SECTIONS ONLY ARE KEVED OR NOTED ON CABINET ELEVATIONS. CABINET SECTIONS SHOWN THIS SHEET ILLUSTRATE TYPICAL CONSTRUCTION AND NOT EVERY DOOR AND/OR DRAWER VARIATION IS SHOWN.  
REFER TO ARCHITECTURALLY SIGNIFICANT EQUIPMENT - "ASE" BOOK BY THE OWNER FOR MEDICAL EQUIPMENT PURCHASE & INSTALLATION CRITERIA.  
REFER TO "A0" FLOOR PLAN SHEETS FOR EQUIPMENT LOCATIONS & TAGS  
- COORDINATE SIZE OF OPENINGS WITHIN CABINETRY & ADJACENT SPACES

**CONSTRUCTION**  
ALL CABINETRY IS PLASTIC LAMINATE CLAD, U.N.O.  
ALL COUNTERTOPS ARE SOLID SURFACE MATERIAL, U.N.O.  
- FOR ANY STRAIGHT RUN PLAM CLAD COUNTERTOPS W/ SINKS, PROVIDE POSTFORMING AT BACKSPLASH TO COUNTERTOP.  
- PROVIDE 1 INCH PLYWOOD SUB-TOPS BELOW - BOTTOM OF SUB-TOP FLUSH W/ BOTTOM OF SOLID SURFACE EDGE.  
PROVIDE PLAM CLAD TRIM & FILLER PANELS WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.  
PROVIDE 1 1/2" WIDE SIDE & END PANELS WHERE SHOWN ON ELEVATIONS.  
ALL UPPER CABINETS HAVE PLAM CLAD "SOFFIT PANELS" ABOVE, EXTENDING FROM THE TOP OF CABINET TO CEILING IN LIEU OF GYP. BD. FURR DOWNS. VERIFY THE ROOM CEILING HEIGHT TO DETERMINE ACTUAL "SOFFIT PANEL" HEIGHTS.  
AT THE BOTTOM OF UPPER CABINET UNITS, ALLOW FOR CONTINUOUS RUNS OF UNDERCOUNTER LIGHTS. SEE ALSO ELECTRICAL DRAWINGS.  
PROVIDE BLOCKING IN PARTITIONS FOR ALL CABINETRY ATTACHED TO WALLS. SEE SECTION THIS SHEET FOR FASTENING DETAILS.  
DEPTH OF CABINET UNITS ARE AS SHOWN ON SECTIONS, U.N.O., ON INTERIOR ELEVATIONS.  
PROVIDE SIDE SPLASHES WHERE COUNTERTOPS ABUT WALLS AT SIDES, U.N.O.  
GLASS PANELS ARE 1/4 INCH CLEAR TEMPERED GLASS, U.N.O.  
FILE DRAWERS ARE NOTED ON ELEVATIONS. PROVIDE MINIMUM INSIDE CLEAR DIMENSIONS OF 13.5" HIGH x 10.5" HIGH x 20.5" DEEP.  
PROVIDE COUNTERTOP BRACE SUPPORTS AT 42" O.C. MAX. @ KNEESPACES & LAVATORY COUNTERS, U.N.O.  
- 2" DEEP COUNTERTOPS - GAMMA'S LARGE WORKSTATION BRACKETS - WWW.GAMMASBRACKETS.COM  
- 3" DEEP COUNTERTOPS - SEE SUPPORT DETAIL THIS SHEET.  
PROVIDE 2" DIAMETER BLACK GROMMETS AT BACK OF COUNTERTOPS - 1 PER 30" OF KNEESPACE WIDTH. LOCATE IN FIELD WITH ARCHITECT.  
PAINT OR SEAL ALL VISIBLE WOOD, PLYWOOD, OR MDF BUICKS, CLEATS, SUPPORTS, BRACES, ETC., AT KNEESPACES. I.E., NO UNFINISHED WOOD PRODUCT SURFACES OR EDGES.  
PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACES AND AT BOTTOM OF UPPER WALL CABINETS TO CLOSE OFF ALL CONCEALED SPACES - I.E., KEEP VERMIN OUT.  
**SOLID SURFACE**  
- EASE ALL EDGES TO APPROXIMATE 1/8" RADIUS, U.N.O.  
- RADIUS TOP EDGE OF BACK & SIDE SPLASHES TO 1/2" RADIUS - NO FLAT TOP FOR WATER ACCUMULATION

**SOLID SURFACE SINK SCHEDULE**

DUPONT MODEL 816 W/ NO OVERFLOW - INSTALL TO MEET ADA
INSTALL IN COUNTERTOPS AT MENUS 103 & 106MENS 155



REVISIONS

No.	Date	TASK	BY

ISSUE FOR PERMIT & PRICING

**HARRISHEALTH SYSTEM**

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT & ENGINEERS:



ARCHITECT: JOHNSTON, LLC  
MEP: Johnston, LLC  
CIVIL: Johnston, LLC



Firm Registration #: PROJECT TITLE:  
**SPRING BRANCH HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston, Tx 77055

SHEET TITLE:  
**INTERIOR ELEVATIONS & CABINETRY TYPES**

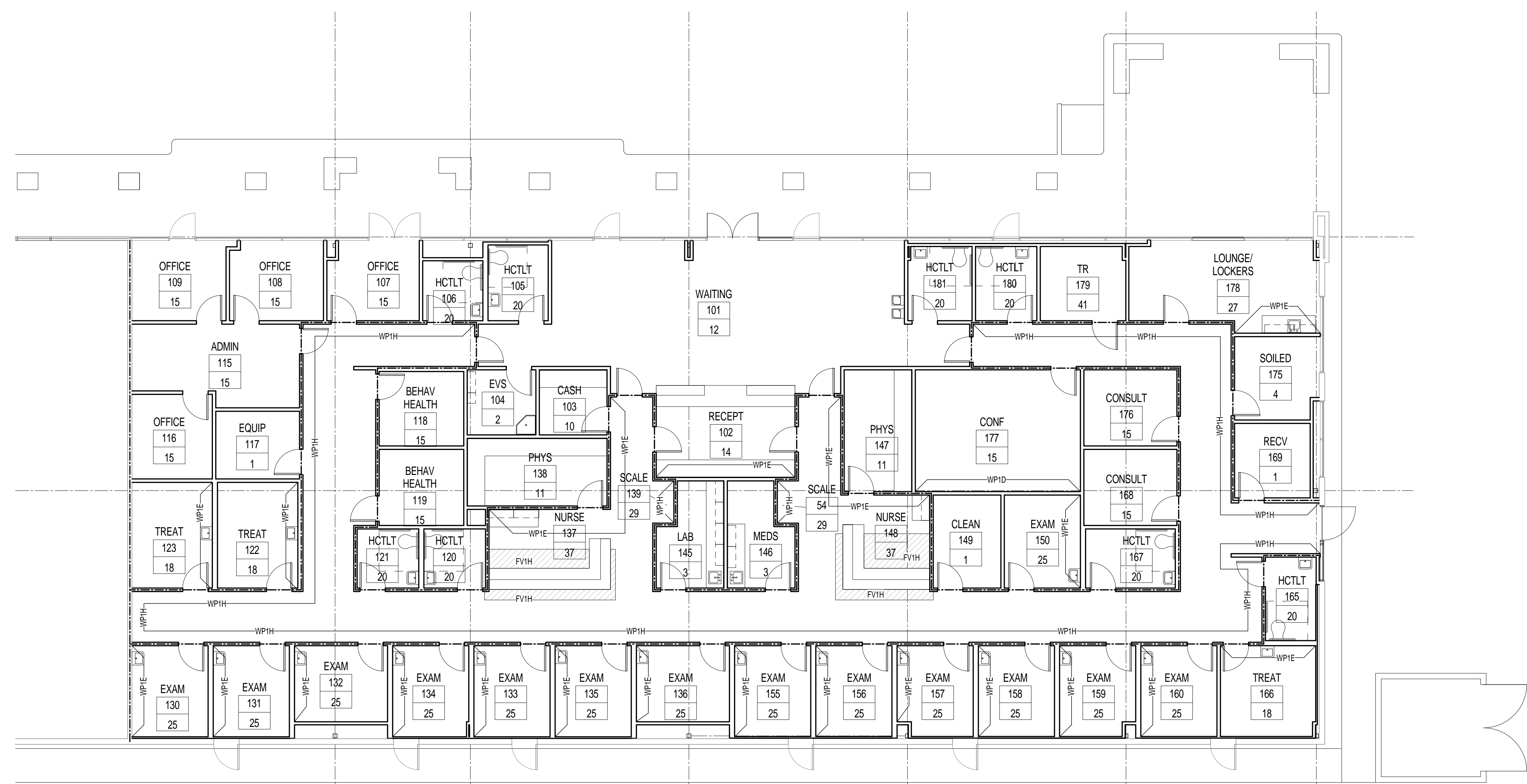
DATE: 11/04/13 DATE:

SHEET NUMBER:  
**A-601**

DRAWN BY: Author  
CHECKED BY: Checker  
SCALE: As indicated  
JOB NO:



ROOM STYLE	FLOOR - FIELD	BASE	WALL	CEILING	MILLWORK	COMMENTS
1	FV1A	BV1A	WP1G	CA1A	-	WALL PROTECTION W/CRASHRAIL 6" AFF
2	FV1A	BV1A	WP1G	CA1A	ML1A	WALL PROTECTION W/CRASHRAIL 6" AFF
3	FV1A	BV1A	WP1G	CA1A	M7	WALL PROTECTION W/CRASHRAIL 6" AFF
4	FR1A	BR1A	WP1G	CA1A	-	WALL PROTECTION W/CRASHRAIL 6" AFF
5	FC1A	BV1A	WP1G	CA1A	ML1F	
6						
7	FC1A	BV1A	WP1G	C-3	M8	
8	FC1A	BV1A	WP1G	C-3	M6	
9	FC1A	BV1A	WP1G	CA1A	-	
10	FC1B	BV1A	WP1G	CA1A	ML1F	
11	FC1B	BV1A	WP1G	CA1A	ML1F	
12	FC1B	BV1A	WP1G	C-3	-	
13						
14	FC1B	BV1A	WP1G	C-3	M10	
15	FC1B	BV1A	WP1G	CA1A	-	
16						
17	FC1B	BV1A	WP1G	CA1A	M3	
18	FR1A	BR1A	WP1G	CA1A	-	ACCENT WALL PAINT AT SINK
19	FT1A	BT1A	W2	CA1A	-	TILE AT WET WALL
20	FT1A	BT1A	W1	CA1A	-	TILE AT WET WALL
21	FV1A	BV1A	WP1G	C-3	-	
22	FV1A	BV1A	WP1G	CA1A	M3	
23	FV1A	BV1A	WP1G	CA1A	-	ACCENT WALL PAINT AT SINK
24	FV1A	BV1A	WP1G	CA1A	M7	ACCENT WALL PAINT AT SINK
25	FV1A	BV1A	WP1G	CA1A	-	ACCENT WALL PAINT AT SINK
26	FV1A	BV1A	WP1G	CA1A	M5	ACCENT WALL PAINT AT SINK
27	FV1A	BV1A	WP1G	CA1A	M9	ACCENT WALL PAINT AT SINK
28						
29	FV1A	BV1A	WP1G	CA1A	-	
30	FV1A	BV1A	WP1G	C-2	-	
31						
32	FV1A	BV1A	WP1H	CA1A	-	
33	F2	BV1A	WP1G	C-1	-	
34	F2	BV1A	WP1G	C-3	M1	
35	F5	BV1A	WP1H	C-3	M2	
36	F4	BV1A	WP1G	C-3	-	
37	F6	BV1A	WP1G	C-3	M4	
38	F6	BV1A	WP1G	C-3	-	
39	F6	BV1A	WP1H	C-3	M4	
40	F3	BV1A	WP1G	C-3	-	
41	FV1A	BV1A	WP1G	CA1A	-	
42	FV1A	BV1A	WP1G	ETS	-	
43	FV1A	BV1A	WP1G	CP1A	-	
44	FT1A	BT1A	W2	CA1A	MS1C	
45	F1	BV1A	WP1G	C-3	M3	
46	F7	BV1A	WP1G	CA1A	-	
47	F7	BV1A	WP1G	C-3	-	
48	FR1A	BR1A	WP1G	CA1A	M5	
49	FC1C	BV1A	WP1G	C-3	M6	
50	FC1C	BV1A	WP1G	CA1A	M5	
51	FC1C	BV1A	WP1G	CA1A	M3	
52	FV1A	BV1A	WP1G	CA1A	M5	



REVISIONS

No.	Date	TASK	BY

ISSUE FOR PERMIT & PRICING



HARRIS HEALTH SYSTEM  
2525 Holly Hall Street  
Houston, TX 77054

ARCHITECT & ENGINEERS:



ARCHITECT:  
JOHNSTON, LLC  
MEP:  
JOHNSTON, LLC  
CIVIL:  
JOHNSTON, LLC



Firm Registration #:   
PROJECT TITLE: **SPRING BRANCH HEALTH CENTER**

PROJECT LOCATION: 9801 Long Point, Houston, TX 77055

SHEET TITLE: **LEVEL 1 INTERIOR FINISHES PLAN**

DATE: 11/04/13 DATE:

SHEET NUMBER: **I-101**

DRAWN BY: Author  
CHECKED BY: Checker  
SCALE: As indicated  
JOB NO:

EQUIPMENT LIST	
032	GLOVE DISPENSER, SINGLE WALL MTD
031	COFFEE MAKER, 3 BURNER/W/EGGCOOKERS
034	MICROWAVE
057	CONTAINER, "SHARPS" DISPOSER UNIT 5QT
060	ANALYZER, URINE/URYS
064	CENTRIFUGE, COUNTERTOP
1523	DIAGNOSTIC SET, WALL MTD
1587	SCALE
1667	CABINET, AED, SEM-RECESSED
1712	TABLE, EXAM
1950	FREEZER, SMALL
1966	REFRIGERATOR, W/FREEZER, DEMAKER FRENCH DOORS
1975	REFRIGERATOR W/FREEZER, SMALL
2012	CART, STORAGE
2079	SHREWDING UNIT, ADJUSTABLE, 24 x 48
11174	CART, PRINTER
11855	STADIOMETER
11907	GLOVE DISPENSER, TRIPLE, WALL MTD
12003	DEFIBRILLATOR, AED
12152	CART, PROCEDURE
12170	TABLE, EXAM, POWER
12491	REFRIGERATOR, SMALL (MEETS)

REVISIONS			
No.	Date	TASK	BY

ISSUE FOR  
PERMIT &  
PRICING



HARRIS HEALTH SYSTEM  
2525 Holly Hall Street  
Houston, TX 77054

ARCHITECT & ENGINEERS:



ARCHITECT:  
Johnston, LLC  
MEP:  
Johnston, LLC  
CIVIL:  
Johnston, LLC  
EQ:  
Mazzetti



Firm Registration #:

PROJECT TITLE:  
SPRING BRANCH  
HEALTH CENTER

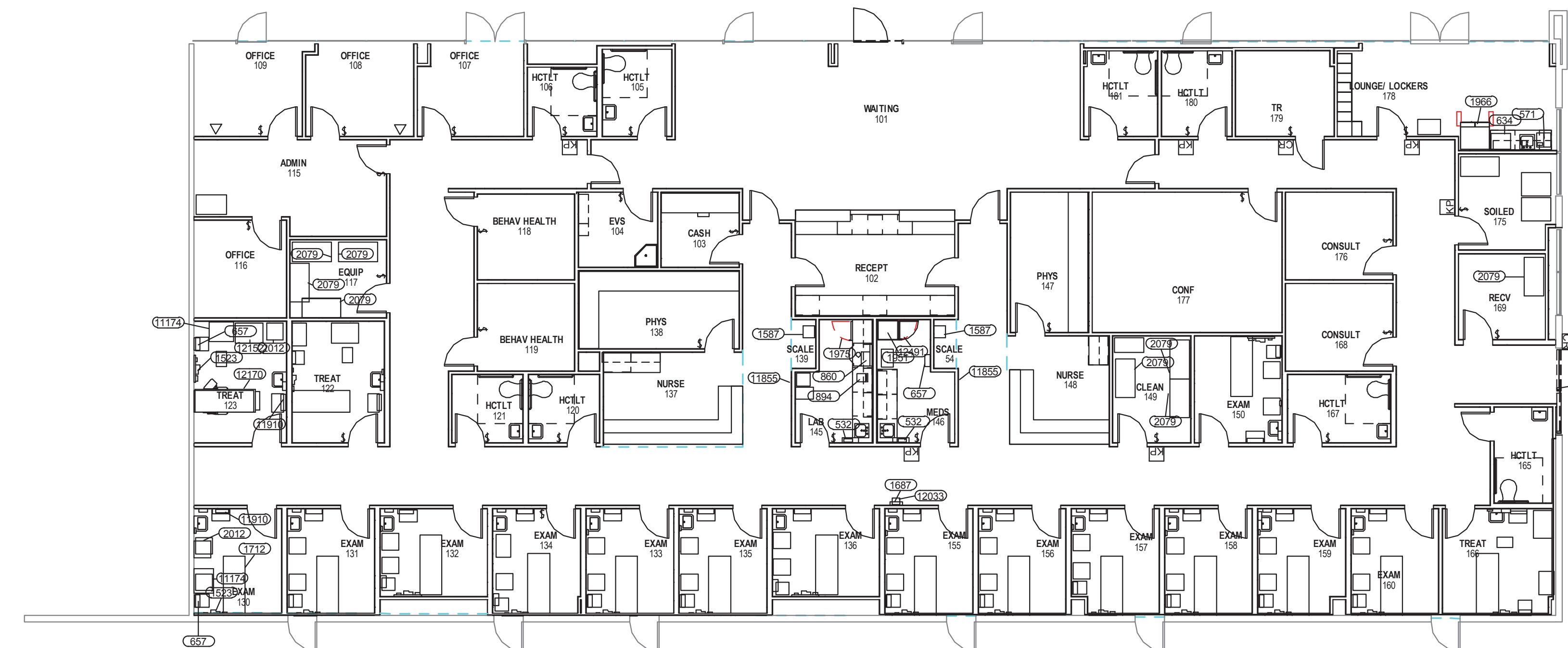
PROJECT LOCATION:  
9801 Long Point  
Houston, Tx 77055

SHEET TITLE:  
EQUIPMENT

DATE: 11/4/2013

SHEET NUMBER:  
Q103

DRAWN BY: DIANE CHAVERRIA SCALE: 1/8" = 1'-0"  
CHECKED BY: PETI JONES THOMPSON



1 - Equipment  
1/8" = 1'-0"



12121 Fairmeadow, Suite 285  
Houston, TX 77024  
Tel: 281-480-5546  
www.mazzettifac.com

PROJECT NUMBER: 100-000

GENERAL PLAN NOTES

This plan is not to be used for Actual construction purposes.

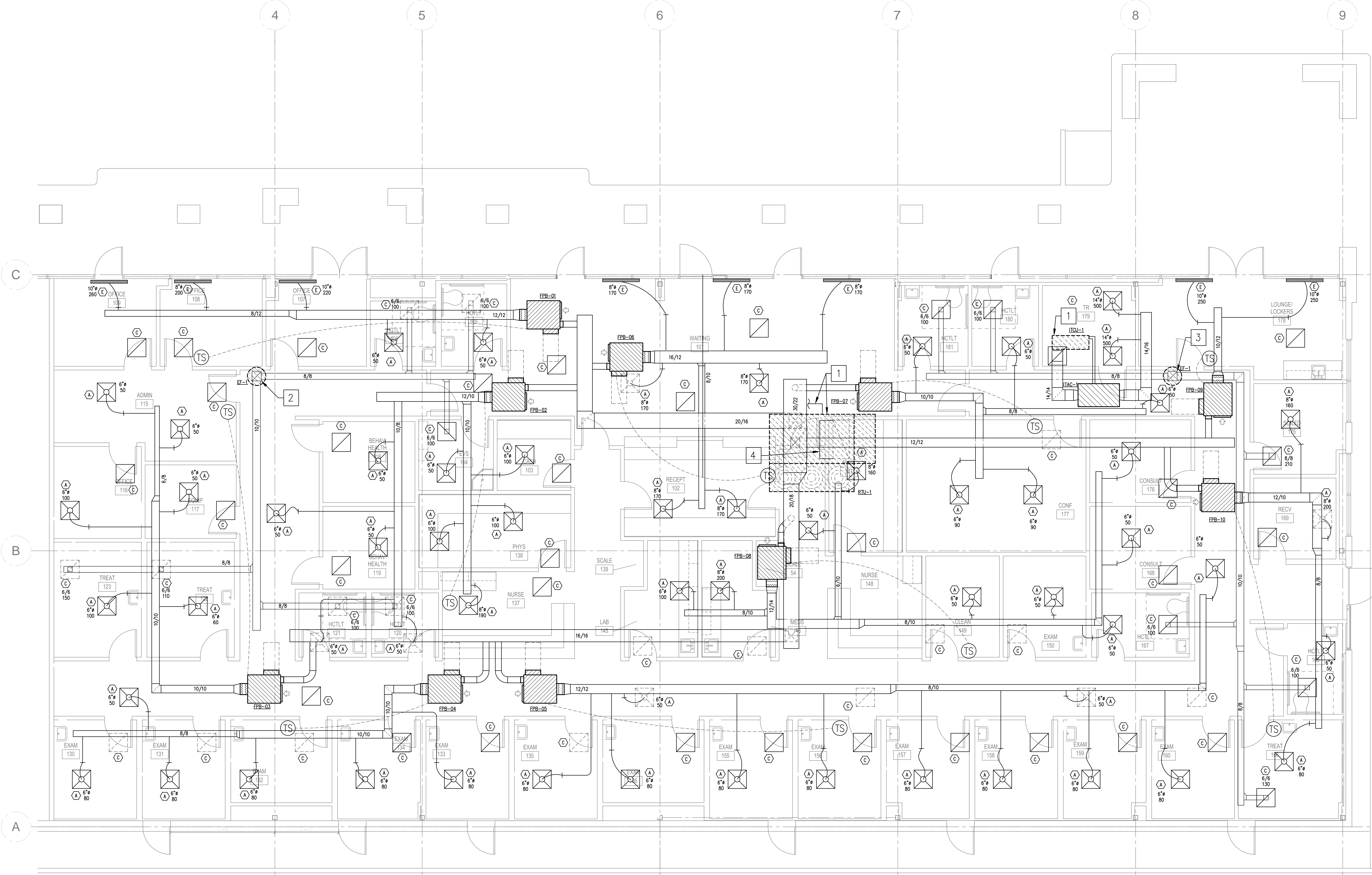
This plan is submitted to suggest locations and quantity of medical equipment. In preparing this plan and supporting vendor specification information, every effort has been made to indicate the actual location of wall-mounted equipment. For details, refer to associated specification information of the referenced equipment item.

Mazzetti expresses no warranty or accepts any liability associated with the use of any vendor's equipment specification and/or installation information.

- Refer to Equipment Specification books for exact quantities and specifications of equipment.
- Refer to architectural elevations for exact location of wall-mounted equipment.
- Contractor shall coordinate with owner on delivery and installation of owner furnished equipment.







**GENERAL NOTES:**

1. VISIT THE SITE PRIOR TO BID DATE AND BECOME ACQUAINTED WITH EXISTING CONDITIONS TO DETERMINE THE EXTENT WORK REQUIRED. NO ALLOWANCE OR COMPENSATION WILL BE MADE FOR FAILURE TO UNDERSTAND THE SCOPE OF WORK.
2. COORDINATE WORK WITH OTHER TRADES AND WITH JOB SITE CONDITIONS BEFORE DEMOLITION EQUIPMENT AND MATERIALS. CEASE OPERATIONS IN THE AREA AND NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF A CONFLICT. PROCEED ONLY AFTER A RESOLUTION TO THE ISSUE HAS BEEN REACHED AND AGREED UPON. NO ALLOWANCE OR COMPENSATION WILL BE MADE FOR WORK THAT MUST BE REMOVED AND RE-DONE DUE TO CONFLICTS AS A RESULT OF A LACK OF COORDINATION WITH OTHER TRADES AND FAILURE TO IMMEDIATELY CEASE OPERATIONS AND NOTIFY THE ENGINEER.
3. WHERE APPROVAL CODES HAVE BEEN ESTABLISHED BY OSHA, UNDERWRITER'S LABORATORY, ANSI, ASME, ASHRAE, ASPE, ASTM, ARI, NRC, NFPA, LABORATORY, OR THE STATE FIRE INSURANCE REGULATORY BODY, FOLLOW THESE STANDARDS WHETHER OR NOT INDICATED ON THE DRAWINGS AND SPECIFICATIONS. COORDINATE WITH HTS'S BUILDING MANAGEMENT SYSTEM FOR THE TAB WORK.
4. PROVIDE FIRE RATED CEILING DIFFUSERS AND RETURN AIR GRILLES IN ALL FIRE RATED CORRIDORS. SEE DETAIL 2 AND 3 ON M2.01.

**PLAN KEYED NOTES:**

1. ROOF MOUNTED UNIT. POSITION UNIT OVER EXISTING STRUCTURAL SUPPORT DESIGNED TO SUPPORT UNIT. PROVIDE FLOAT SWITCH IN DRAIN PAN TO SHUT DOWN UNIT IF DRAIN PAN IS CLOSED. ROUTE 1" DRAIN LINE TO NEAREST ROOF DRAIN.
2. 12/12 EXHAUST DUCT UP TO EF-1 ON ROOF.
3. 12/12 EXHAUST DUCT UP TO EF-2 ON ROOF.
4. 50/20 RA ELBOW. PROVIDE 1/4" ALUMINUM WIRE MESH OVER OPENING.

REVISIONS			
No.	Date	TASK	BY

**ISSUE FOR PERMIT & PRICING**

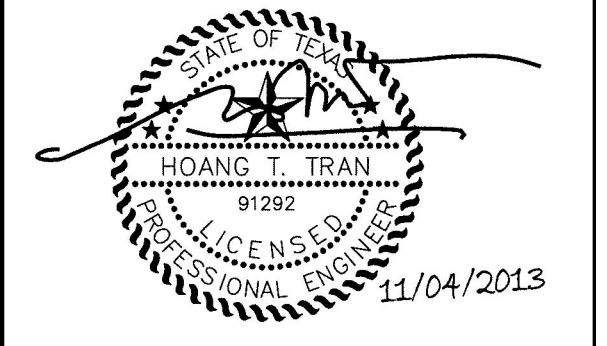
**HARRIS HEALTH SYSTEM**

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT & ENGINEERS:

**JOHNSTON, LLC**  
2000 BEISING DRIVE  
SUITE 850  
HOUSTON, TX 77057  
713-932-2466  
www.johnstonllc.com  
Engineers - Architects - Planners - Managers

ARCHITECT: Johnston, LLC  
MEP: Johnston, LLC  
CIVIL: Johnston, LLC



Firm Registration #: F-421  
**PROJECT TITLE:**  
**SPRING BRANCH HEALTH CENTER**

**PROJECT LOCATION:**  
9801 Long Point, Houston,  
Tx 77055

SHEET TITLE:  
**MECHANICAL FLOOR PLAN**

DATE: NOV 4, 2013 DATE:

SHEET NUMBER:  
**M-101**

DRAWN BY: LP SCALE: 1/4" = 1'-0"  
CHECKED BY: ST JOB NO: 2013.020-02

REVISIONS

No.	Date	TASK	BY

ISSUE FOR PERMIT  
& PRICING

**HARRISHEALTH**  
SYSTEM

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT & ENGINEERS:

**JOHNSTON, LLC**  
2000 BEISING DRIVE  
SUITE 850  
HOUSTON, TX 77067  
713-832-2466  
www.johnstonllc.com  
Engineers - Architects - Planners - Managers

ARCHITECT:  
Johnston, LLC  
MEP:  
Johnston, LLC  
CIVIL:  
Johnston, LLC



Firm Registration #F-421

PROJECT TITLE:  
**SPRING BRANCH  
HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston,  
Tx 77055

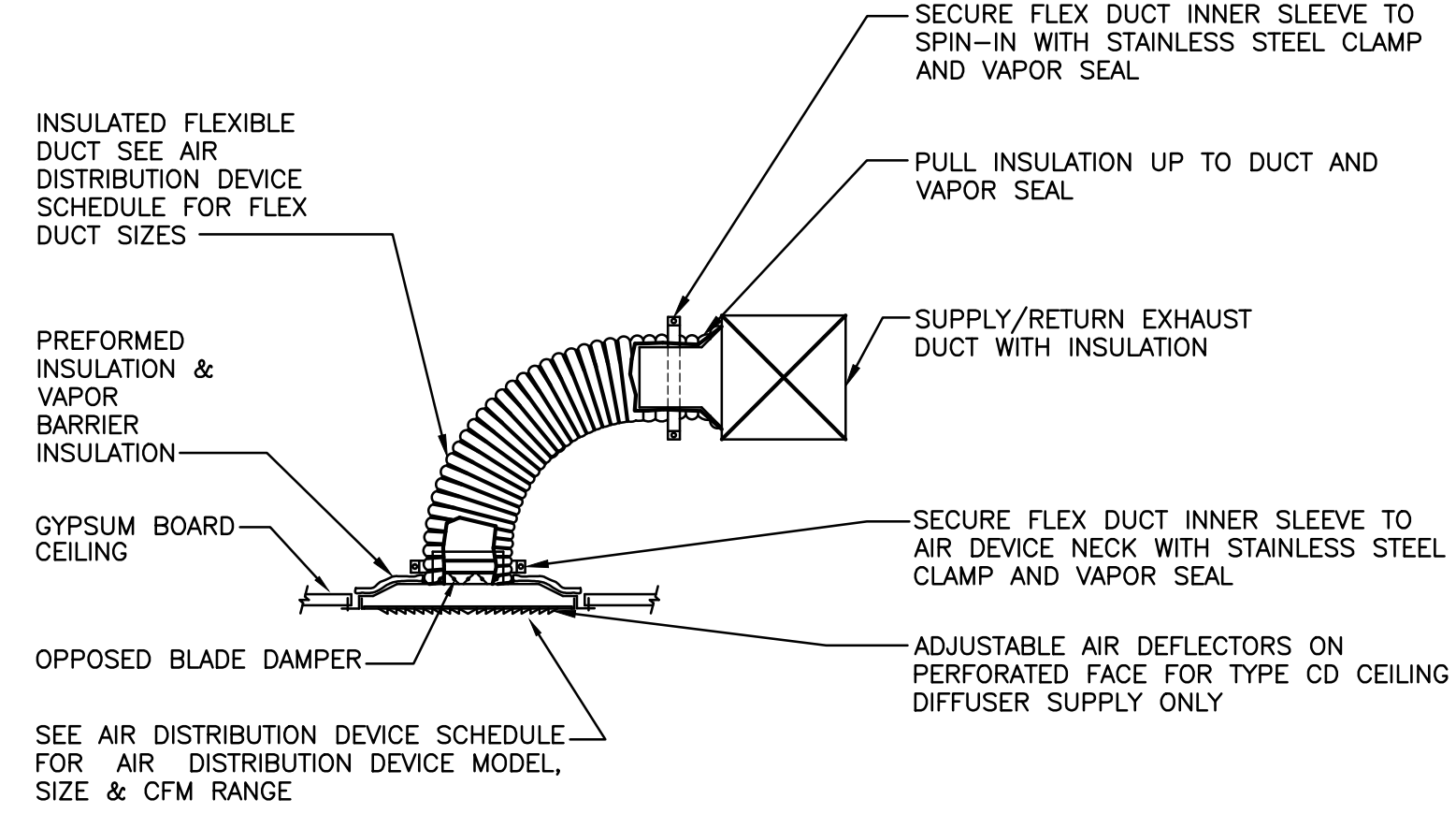
SHEET TITLE:

**MECHANICAL  
DETAILS**

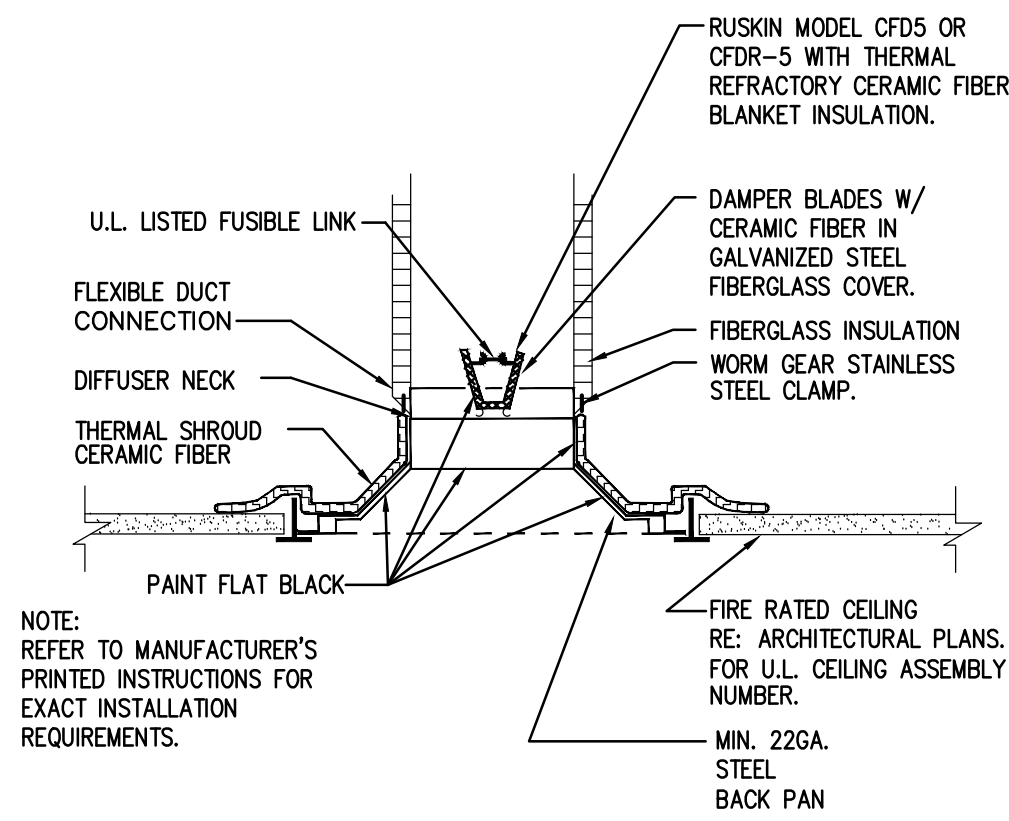
DATE: NOV 4, 2013 DATE:

SHEET NUMBER:  
**M-201**

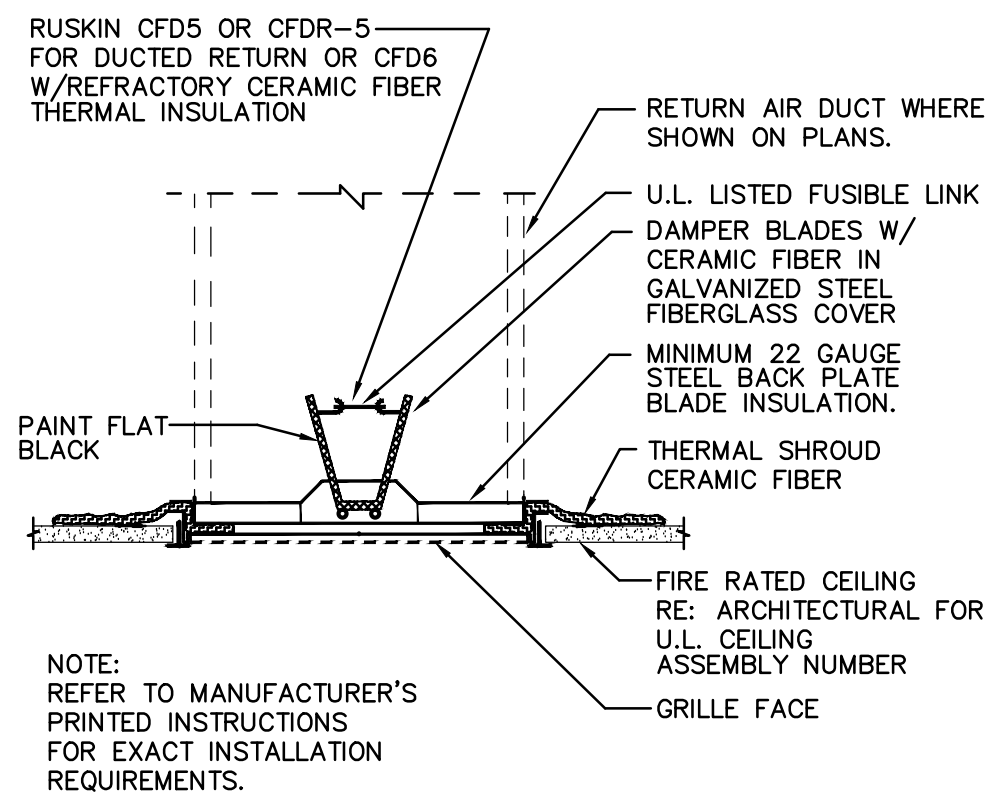
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CHECKED BY: ST JOB NO: 2013.020-02



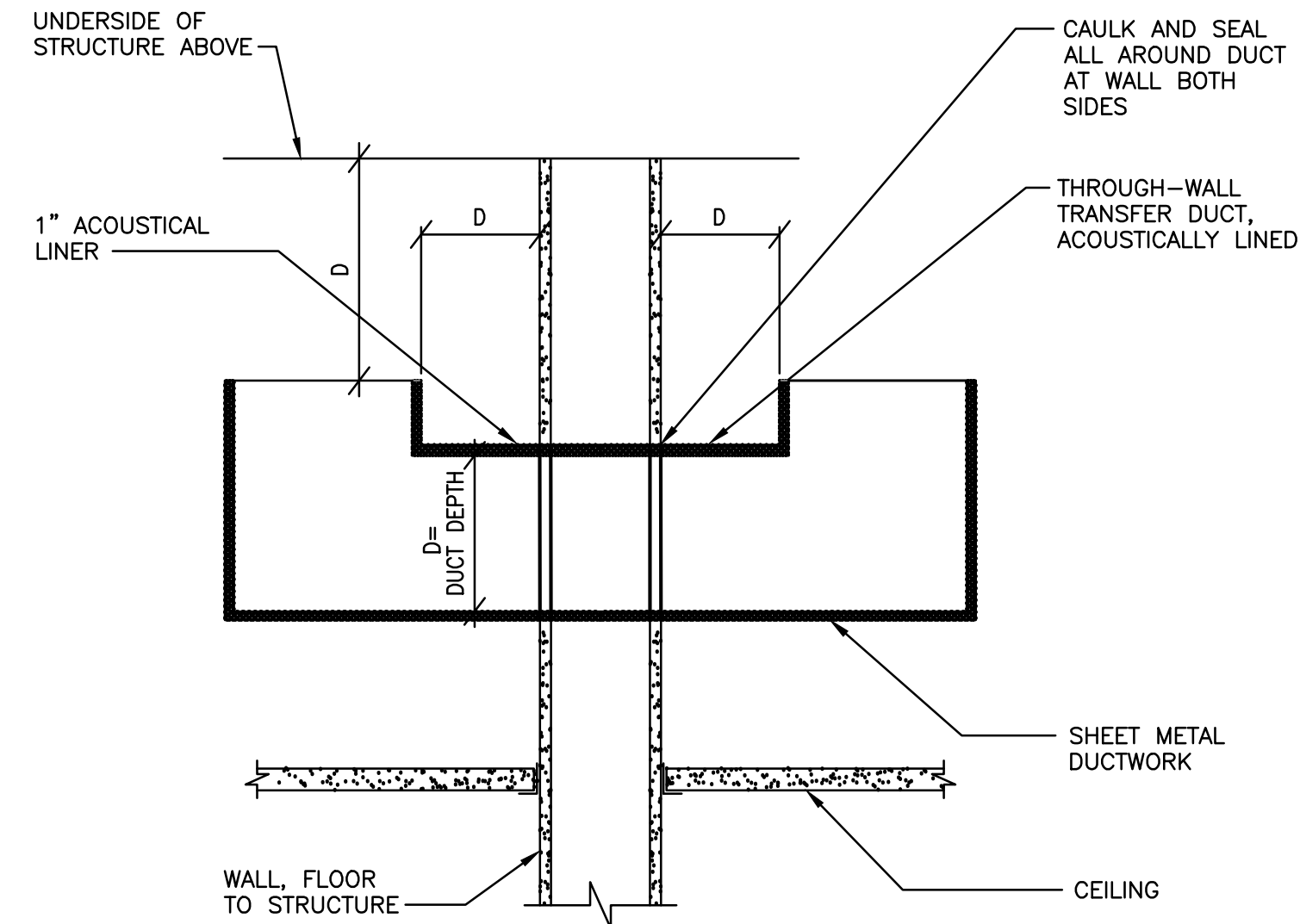
**1 CEILING DIFFUSER CONNECTION DETAIL**  
SCALE: NOT TO SCALE (COORDINATE WITH AIR DEVICE SCHEDULE)



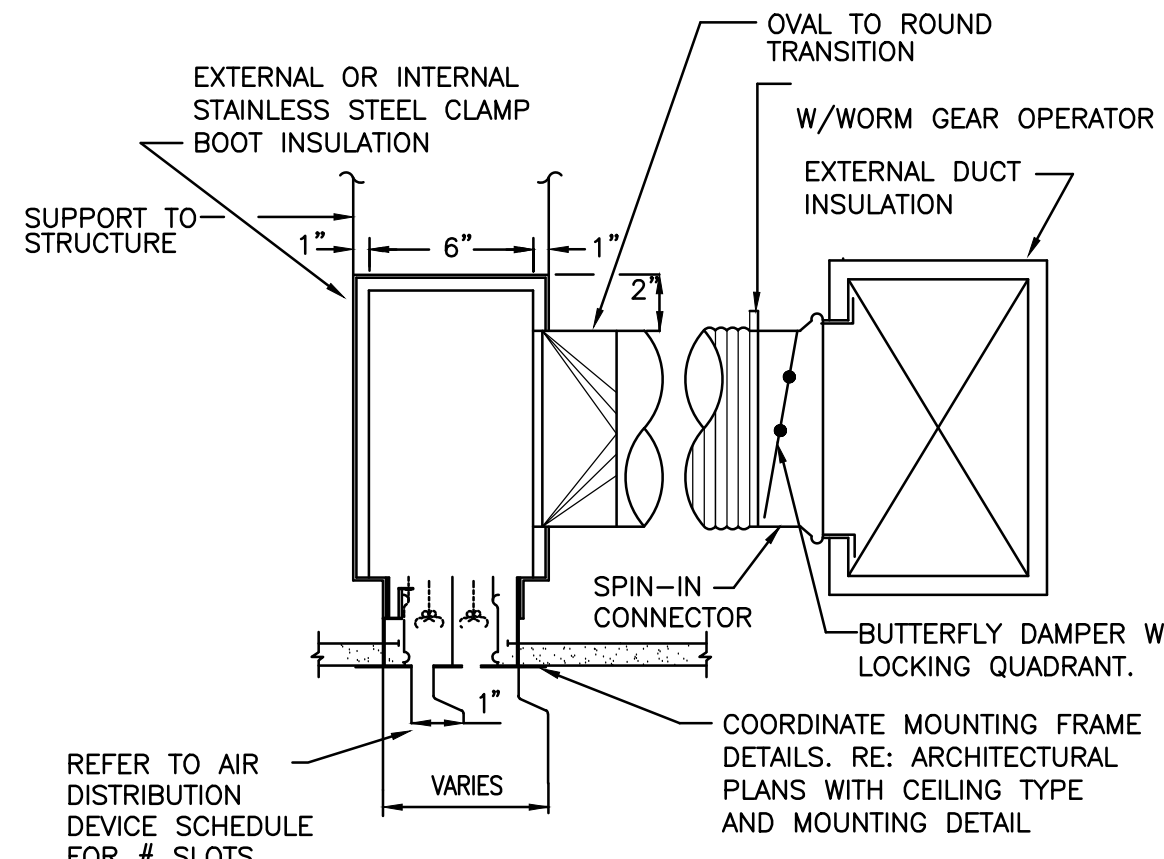
**2 FIRE RATED CEILING DIFFUSER**  
SCALE: NOT TO SCALE



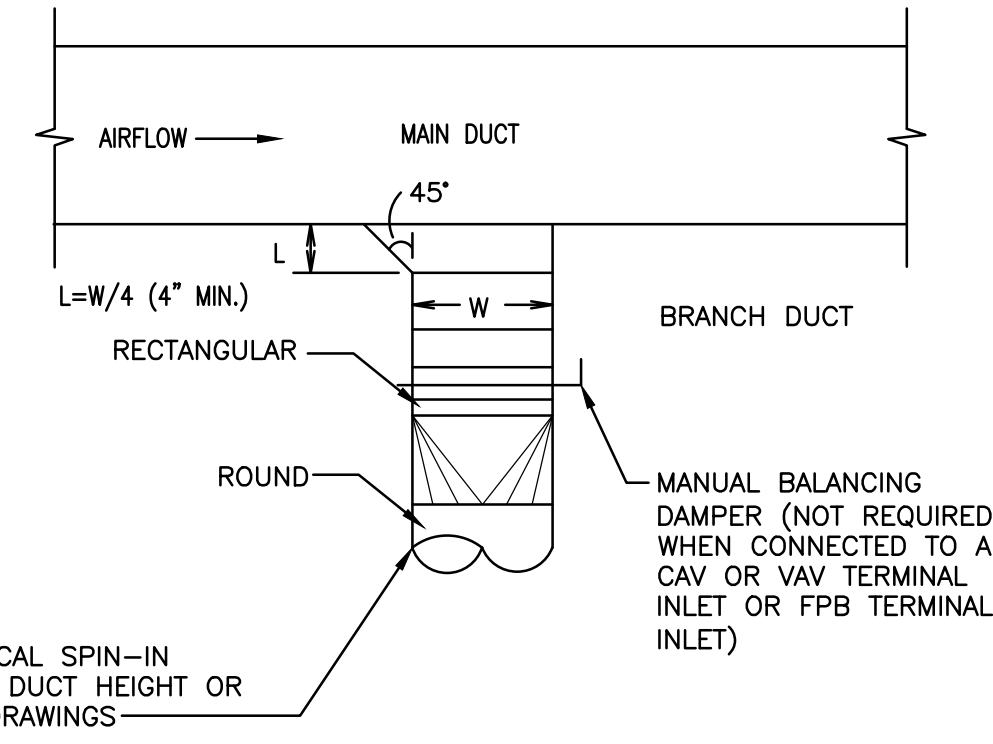
**3 FIRE RATED R/A GRILLE**  
SCALE: NOT TO SCALE



**5 TRANSFER AIR BOOT**  
SCALE: NOT TO SCALE



**4 SLOT DIFFUSER CONNECTION**  
SCALE: NOT TO SCALE



**6 BRANCH CONNECTION FOR ROUND FLEXIBLE DUCT**  
SCALE: NOT TO SCALE

**REVISIONS**

No.	Date	TASK	BY

**ISSUE FOR PERMIT & PRICING**

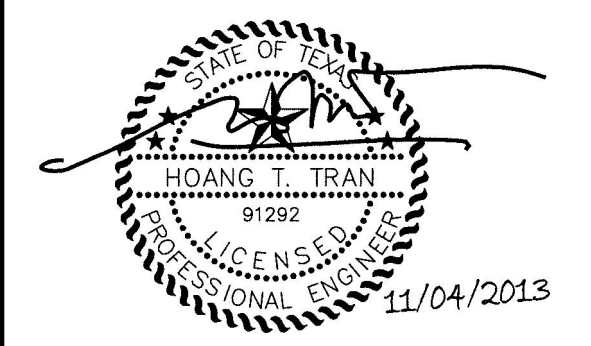
**HARRISHEALTH SYSTEM**

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT &amp; ENGINEERS:



ARCHITECT:  
Johnston, LLC  
MEP:  
Johnston, LLC  
CIVIL:  
Johnston, LLC



Firm Registration #F-421

PROJECT TITLE:  
**SPRING BRANCH  
HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston,  
Tx 77055

SHEET TITLE:

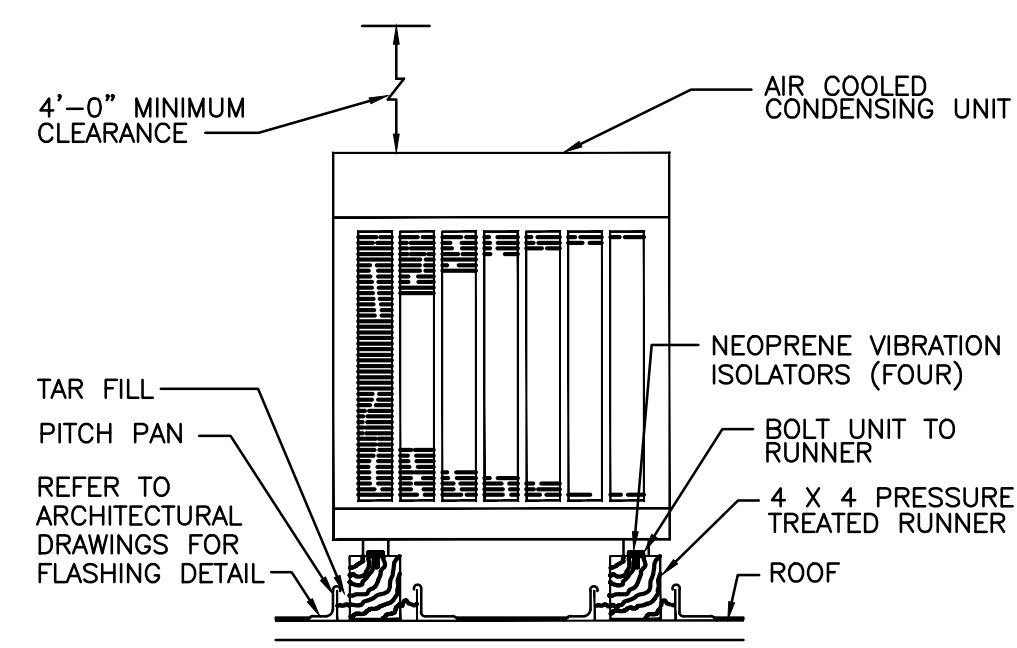
**MECHANICAL  
DETAILS**

DATE: NOV 4, 2013 DATE:

SHEET NUMBER:

**M-202**

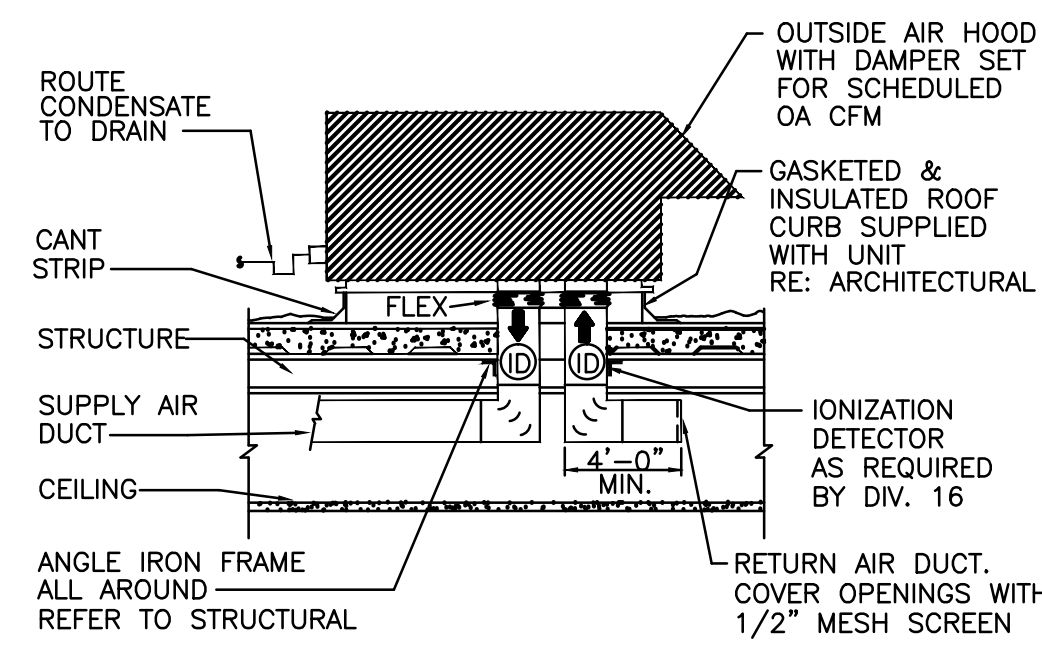
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CHECKED BY: ST JOB NO: 2013.020-02



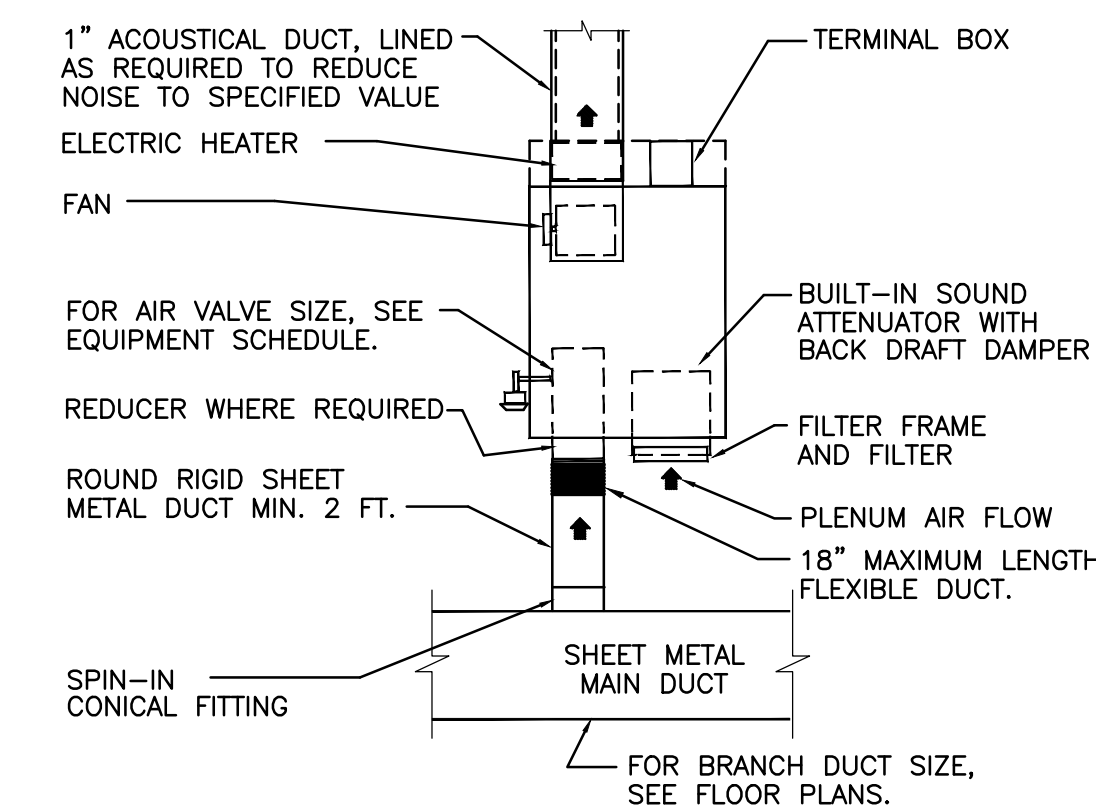
NOTE: PROVIDE 4'-0" MINIMUM FOR AIR FLOW AND SERVICE CLEARANCE AROUND UNIT.

**3 CONDENSING UNIT ROOF MOUNTED**

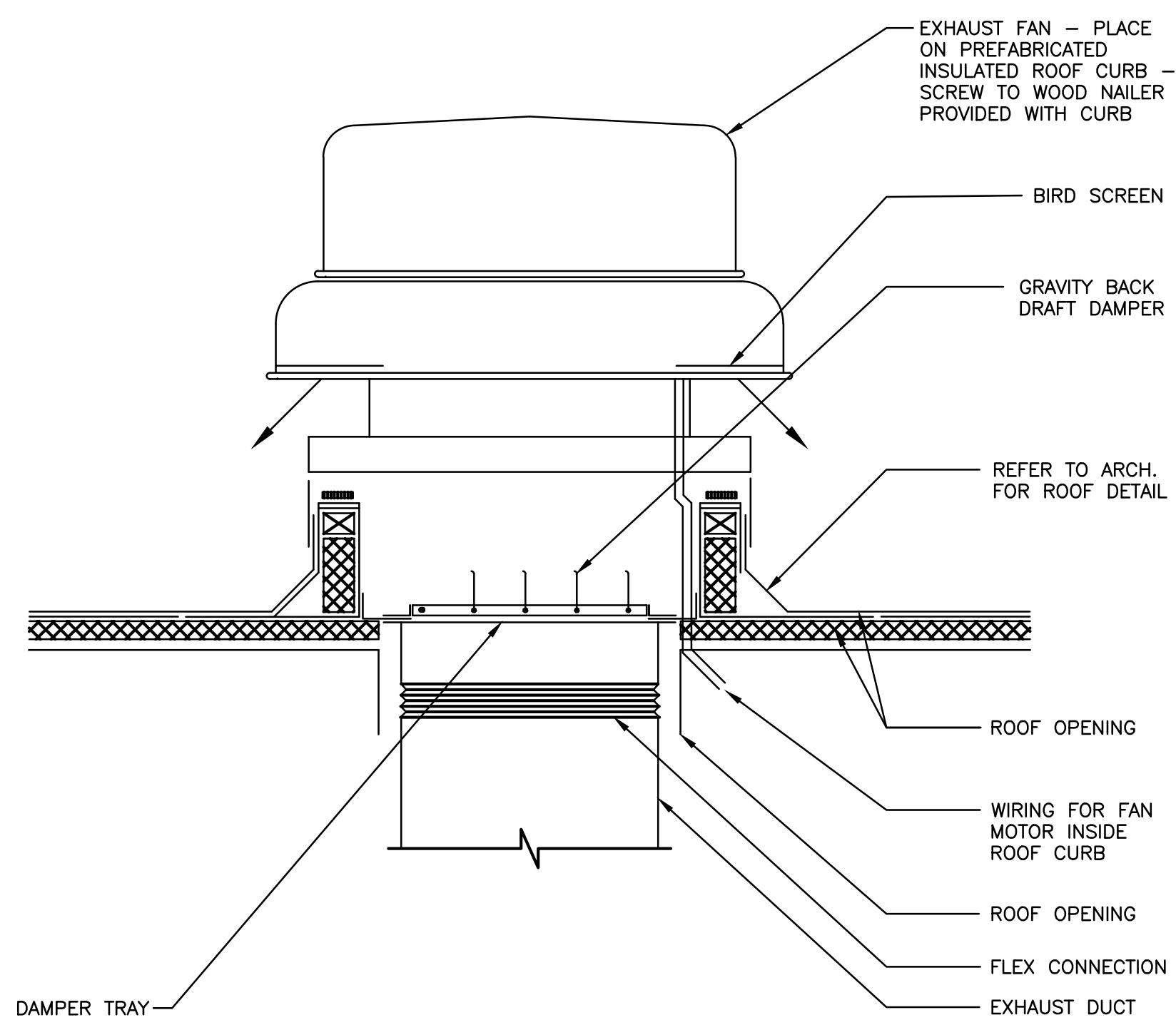
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**2 ROOF TOP PACKAGED DX UNIT**

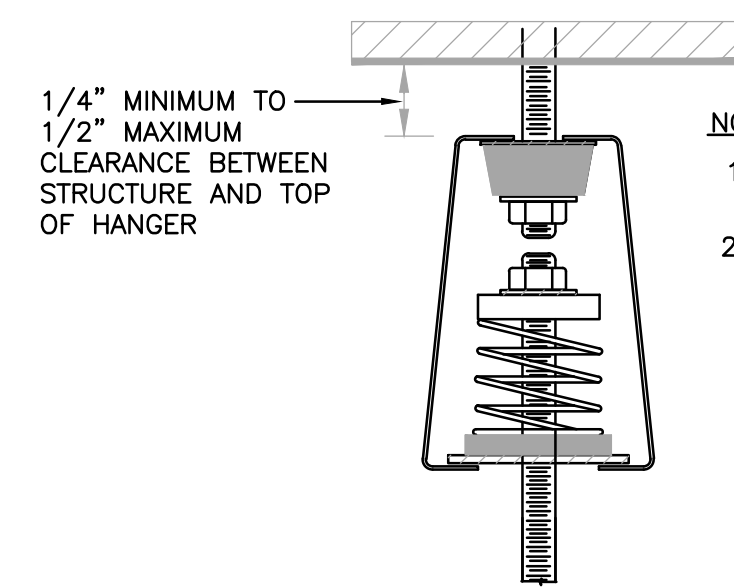
SCALE: NOT TO SCALE

**1 FAN POWER TERMINAL DETAIL (SERIES)**

SCALE: NOT TO SCALE

**6 ROOF MOUNTED EXHAUST FAN**

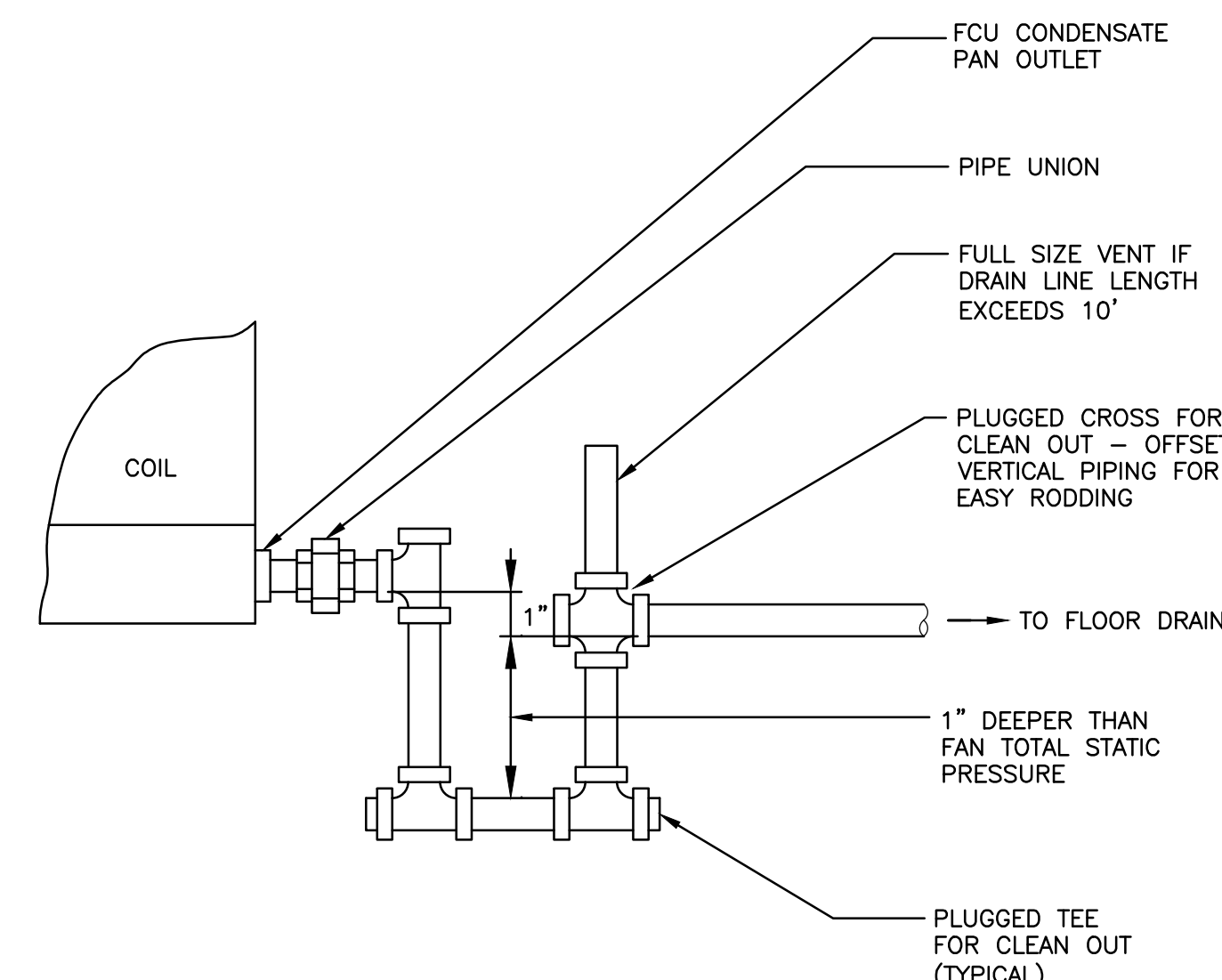
SCALE: NOT TO SCALE

**NOTES:**

- HANGER BOX SHALL NOT CONTACT STRUCTURE.
- SPRING AND NEOPRENE HANGER, AND NEOPRENE HANGER REQUIRE SIMILAR CLEARANCE.

**5 VIBRATION ISOLATOR HANGER DETAIL**

SCALE: NOT TO SCALE



NOTE: SEE SPECIFICATIONS FOR TYPE OF PIPE & INSULATION REQUIREMENTS

**4 FAN COIL UNIT CONDENSATE DRAIN**

SCALE: NOT TO SCALE

REVISIONS			
No.	Date	TASK	BY

ISSUE FOR PERMIT  
& PRICING

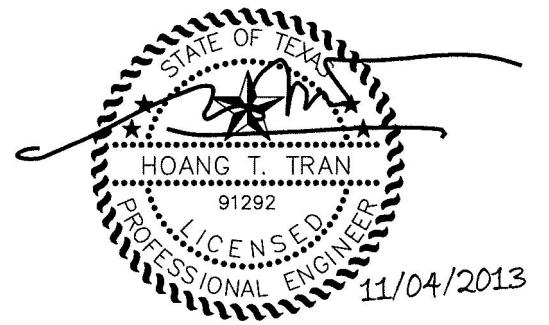
**HARRIS HEALTH SYSTEM**

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT & ENGINEERS:

**JOHNSTON, LLC**  
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Johnston, LLC  
MEP:  
Johnston, LLC  
CIVIL:  
Johnston, LLC



Firm Registration #F-421

PROJECT TITLE:  
**SPRING BRANCH  
HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston,  
Tx 77055

SHEET TITLE:

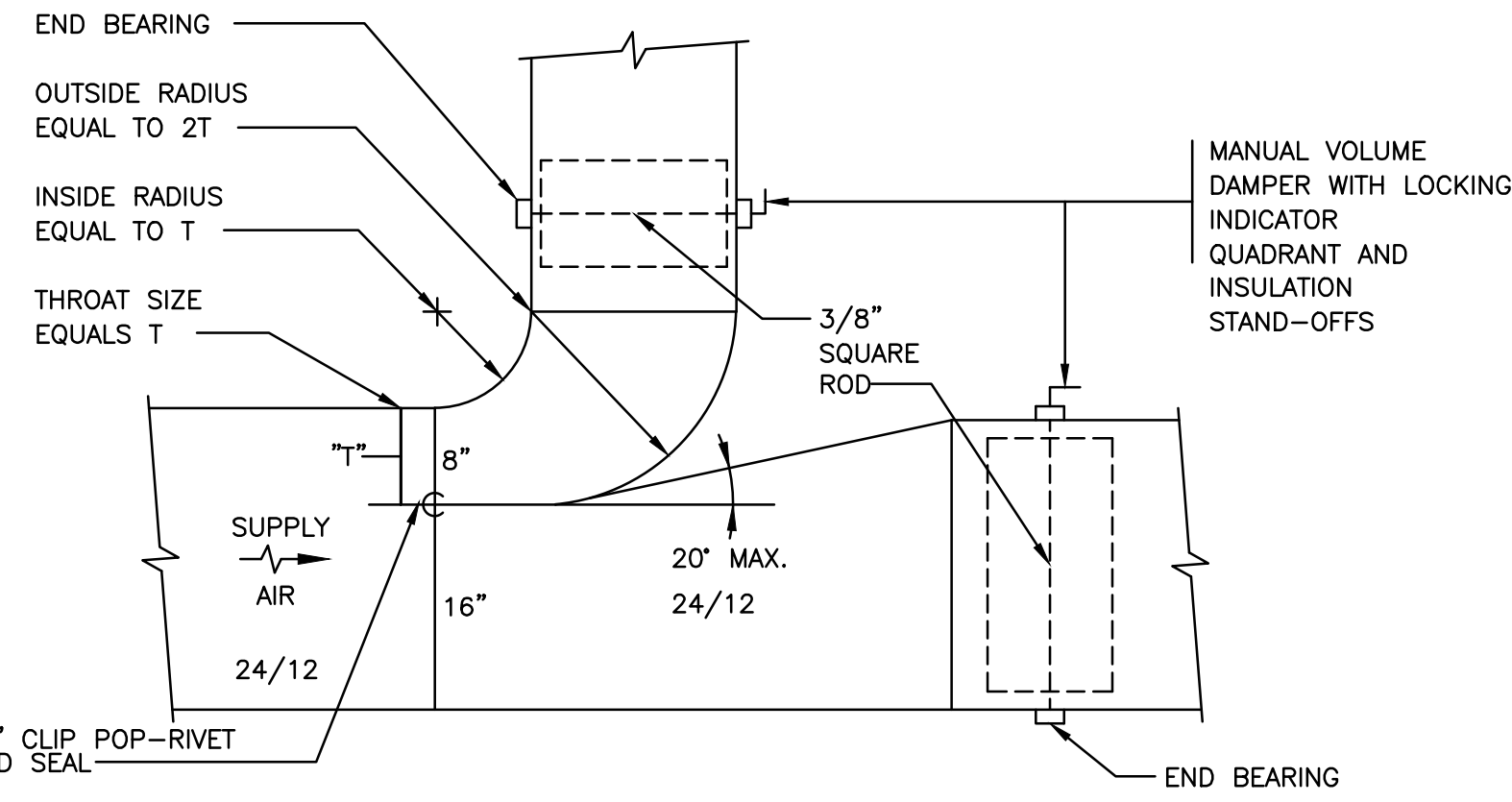
**MECHANICAL  
DETAILS**

DATE: NOV 4, 2013 DATE:

SHEET NUMBER:

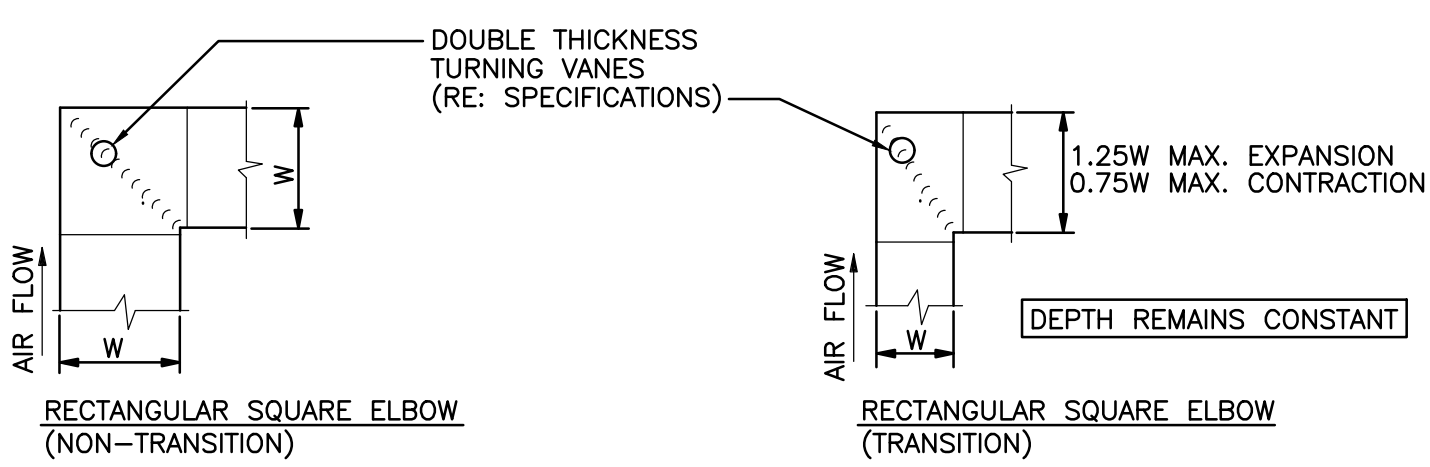
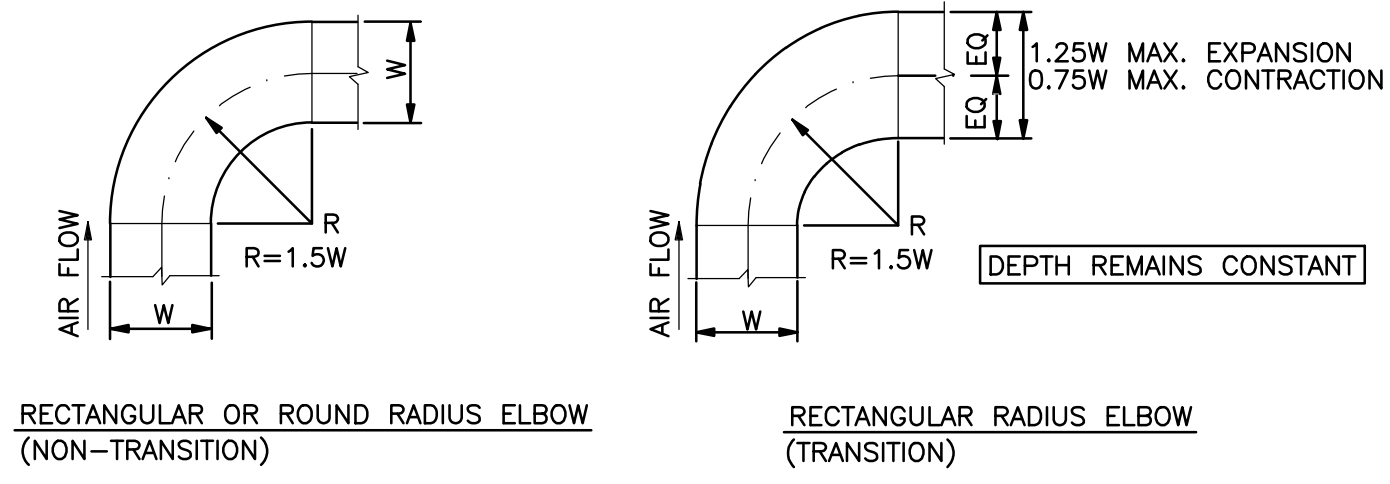
**M-203**

DRAWN BY: LP SCALE: NONE  
CHECKED BY: ST JOB NO: 2013.020-02



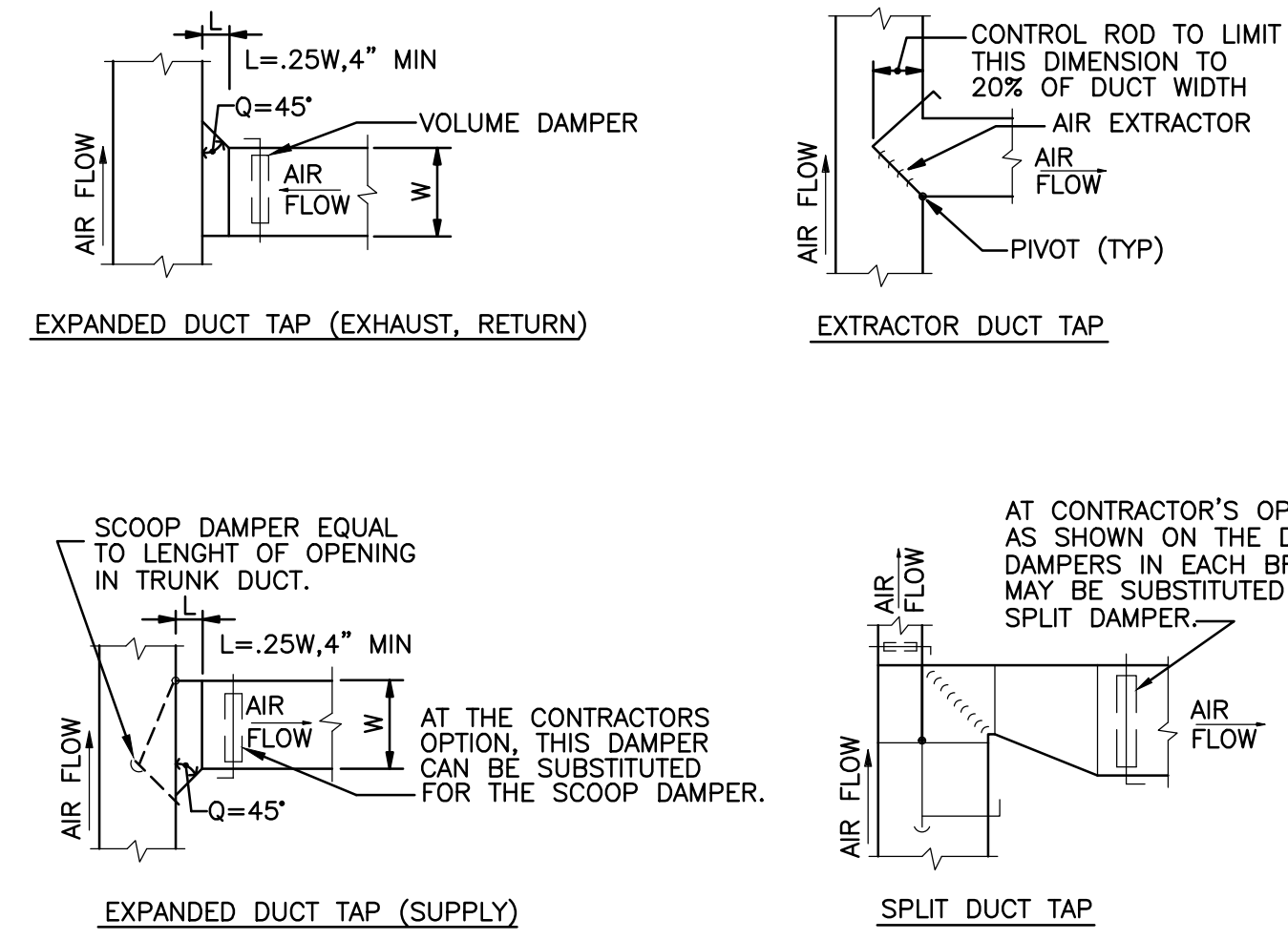
**NOTE**  
1. FURNISH THIS TYPE OF CONNECTION WHEN BRANCH DUCT SERVES MORE THAN ONE DIFFUSER.  
2. RECTANGULAR ELBOWS WITH TRNING VANE WILL NOT BE ACCEPTABLE HERE.  
3. NO SPLITTER VANE.

**3 RECTANGULAR SPLITTER DAMPER**  
M-203 SCALE: NOT TO SCALE

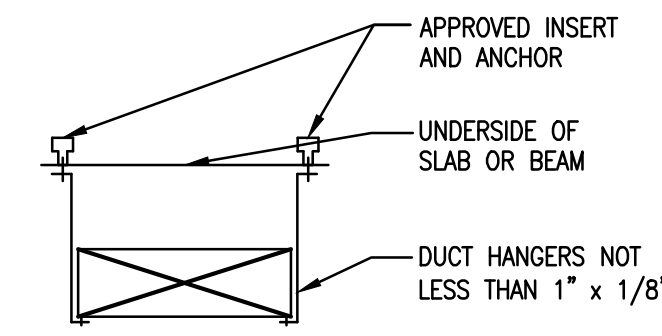


**NOTES:**  
1. PROVIDE SINGLE THICKNESS TURNING VANE WHEN DUCT VELOCITY IS BELOW 2000 FPM.  
2. PROVIDE AIRFOIL TYPE TURNING VANE WHEN DUCT VELOCITY IS ABOVE 2000 FPM.

**2 DUCT ELBOW DETAIL**  
M-203 SCALE: NOT TO SCALE



**1 DUCT FITTING DETAIL**  
M-203 SCALE: NOT TO SCALE



**NOTES:**  
1. ALL DUCTWORK TO BE HUNG FROM BUILDING CONSTRUCTION. DO NOT SUPPORT DUCTWORK FROM HUNG CEILING OR SHEET METAL DECK.  
2. WHEN DUCT AREA EXCEEDS 8 SQ. FT., ANGLE STIFFENERS ARE REQUIRED AROUND CIRCUMFERENCE EVERY 4'-0\"/>  
3. FOR DUCTS OVER 48\"/>

HANGER SIZES FOR RECTANGULAR DUCTWORK SHALL BE AS FOLLOWS:

LONGEST DIMENSION OF DUCT	ROUND HANGERS	MAXIMUM SPACING SEE NOTE #4	STRAP HANGERS	TRAPEZE SHELF ANGELS
UP TO 18"	8 GA. WIRE	3'-0"	1" x 1/8"	1" x 1" x 1/8"
19" TO 30"	1/4" ROD	3'-0"	1" x 1/8"	1" x 1" x 1/8"
31" TO 42"	1/4" ROD	3'-0"	1" x 1/8"	1 1/2" x 1 1/2" x 1/8"
43" TO 60"	3/8" ROD	4'-0"	---	1 1/2" x 1 1/2" x 1/8"
61" TO 84"	3/8" ROD	4'-0"	---	2" x 2" x 1/8"
85" TO 96"	3/8" ROD	4'-0"	---	2" x 2" x 3/16"
OVER 97"	3/8" ROD	4'-0"	---	2" x 2" x 1/4"

**4 DUCT SUPPORT**  
M-203 SCALE: NOT TO SCALE

No.	Date	TASK	BY

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& PRICING**

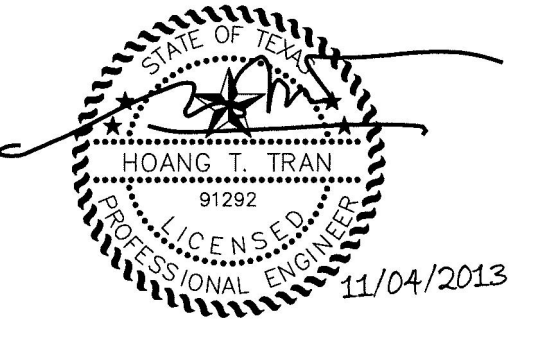


HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

**ARCHITECT & ENGINEERS:**



**ARCHITECT:** JOHNSTON, LLC  
**MEP:** JOHNSTON, LLC  
**CIVIL:** JOHNSTON, LLC



Firm Registration #F-421  
**PROJECT TITLE:**  
SPRING BRANCH  
HEALTH CENTER

**PROJECT LOCATION:**  
9801 Long Point, Houston,  
Tx 77055

**SHEET TITLE:**  
  
**MECHANICAL  
SCHEDULES**

**DATE:** NOV 4, 2013 **DATE:**

**SHEET NUMBER:**  
**M-301**

**DRAWN BY:** LP **SCALE:** NONE  
**CHECKED BY:** ST **JOB NO:** 2013.020-02

AIR DEVICE SCHEDULE				
MARK	MANUF. & MODEL	TYPE	REMARKS	
A	TITUS - TMS-AA	24"x24" S/A DIFFUSER	LOUVERED FACE, ALUMINUM CONSTRUCTION. REFER PLANS FOR NECK SIZE.	
B	TITUS - TMS-AA	12"x12" S/A DIFFUSER	LOUVERED FACE, ALUMINUM CONSTRUCTION. REFER PLANS FOR NECK SIZE.	
C	TITUS - TDCA-AA	24"x24" R/A DIFFUSER	LOUVERED FACE, ALUMINUM CONSTRUCTION, ADJUSTABLE DISCHARGE REFER PLANS FOR NECK SIZE.	
D	TITUS - TDCA-AA	12"x12" R/A DIFFUSER	LOUVERED FACE, ALUMINUM CONSTRUCTION, ADJUSTABLE DISCHARGE REFER PLANS FOR NECK SIZE.	
E	TITUS - TSDI-80	PLENUM SLOT DIFFUSER	STEEL CONSTRUCTION, 4 FT. LENGTH, 2 SLOTS, 1" SLOT. PROVIDE WITH 11" HEIGHT PLENUM	

**NOTES:**  
1. PROVIDE FRAME TO MATCH CEILING TYPE. (RE: ARCHITECTURAL REFLECTED CEILING PLANS.)  
2. RE: ARCHITECTURAL DRAWINGS FOR FINISH.  
3. PROVIDE REMOTE SPIN-IN DAMPER OPERATOR FOR DIFFUSER LOCATED IN GYP BOARD CEILING.

FAN POWERED BOX SCHEDULE (CONSTANT VOLUME)													
MARK	MANUF.	MODEL	SIZE	INLET SIZE	CFM	MIN. PRIMARY AIR CFM	EXT. SP IN	FAN MOTOR	ELECTRIC HEATING COIL STEP	MAXIMUM INPUT KW	VOLT/PHASE	REMARKS	
FPB-1	TITUS	DTFS	C	12"	780	235	0.4	1/2	2	9	208/3/60	-	
FPB-2	TITUS	DTFS	C	12"	790	240	0.4	1/2	2	9	208/3/60	-	
FPB-3	TITUS	DTFS	B	08"	410	125	0.4	1/2	2	4	208/3/60	-	
FPB-4	TITUS	DTFS	B	08"	450	135	0.4	1/2	2	4	208/3/60	-	
FPB-5	TITUS	DTFS	C	12"	790	240	0.4	1/2	2	9	208/3/60	-	
FPB-6	TITUS	DTFS	D	14"	1190	360	0.4	1/2	2	10.5	208/3/60	-	
FPB-7	TITUS	DTFS	B	08"	330	100	0.4	1/2	2	3.5	208/3/60	-	
FPB-8	TITUS	DTFS	C	12"	760	230	0.4	1/2	2	9	208/3/60	-	
FPB-9	TITUS	DTFS	B	08"	500	150	0.4	1/2	2	4	208/3/60	-	
FPB-10	TITUS	DTFS	B	08"	490	150	0.4	1/2	2	5	208/3/60	-	

**NOTES:**  
1. ALL FAN POWERED BOXES SHALL BE PROVIDED WITH SINGLE POINT CONNECTION, INTERLOCKING DISCONNECT.  
2. PROVIDE INDUCED AIR FILTER, 1-INCH THICK, DISPOSABLE CONSTRUCTION TYPE. CONTROL TRANSFORMER: ECM MOTOR  
3. CONTROL TRADE PROVIDES THE VAV UNIT CONTROLS FOR INSTALLATION BY UNIT MANUFACTURER

ROOF TOP AIR CONDITIONING UNIT SCHEDULE			
MARK	RTU-1		
CFM	6,045		
OUTSIDE AIR CFM	1,900		
ESP. (IN W.G.)	2.8		
HP	4.46		
RPM	1,342		
E.E.R.	-		
SENSIBLE BTUH	202,900		
TOTAL BTUH	305,900		
EAT. (DB/WB)	84.9/69.8		
AMB. TEMP (F)	105		
VOLTS/PHASE	208/3/60		
MANUFACTURER	AAON		
MODEL NO.	RN-030-8		

**REMARKS**  
1. PROVIDE UNIT WITH 14" TALL PREMANUFACTURED ROOF CURB.  
2. PROVIDE UNIT WITH OUTDOOR AIR HOOD AND MOTORIZED DAMPER.  
3. PROVIDE FLOAT SWITCH IN PRIMARY DRAIN PAN TO DE-ENERGIZE THE UNIT WHEN PRIMARY DRAIN LINE BECOMES RESTRICTED.  
4. PROVIDE UNIT WITH WATMASTER CONTROLLER FOR VAV.  
5. PROVIDE UNIT WITH SINGLE POINT CONNECTION.  
6. PROVIDE UNIT WITH 2" FOAM FILLED PANELS AND THERMAL BREAK CONSTRUCTION.  
7. PROVIDE UNIT WITH STAINLESS STEEL DRAIN PANS AND UV LIGHTS.  
8. PROVIDE DIGITAL COMPRESSOR ON LEAD COMPRESSORS.  
9. PROVIDE UNIT WITH VFD ON SUPPLY FAN AND ECM MOTOR OR VFD CONDENSER FAN MOTOR FOR HEAD PRESSURE MODULATION.  
10. CONTACT MARK BRADIGICH AT TEXAS AIRSYSTEMS FOR PRICING SUPPORT.

FAN SCHEDULE		
MARK	EF-1	EF-2
SERVICE	TOILET EXHAUST	TOILET EXHAUST
UNIT TYPE	CENTRIFUGAL INLINE	CENTRIFUGAL INLINE
DRIVE TYPE	BELT	BELT
TOTAL AIRFLOW (CFM)	760	740
EXTERNAL STATIC PRESSURE (IN. W.G.)	0.75	0.75
RPM	1489	1528
MOTOR SIZE (HP)	0.19	0.21
VOLTS / PHASE	115/1/60	115/1/60
MANUFACTURER	GREENHECK	GREENHECK
MODEL	GB-091-4	GB-091-4
WEIGHT (LBS)	58	58

**DESIGN CRITERIA AND APPLICABLE CODES**

OUTDOOR CONDITIONS:  
SUMMER: DRYBULB: 96.0F, WET BULB: 80.5F  
WINTER : DRYBULB: 28F

INDOOR CONDITIONS:  
SUMMER: DRYBULB: 75F, RELATIVE HUMIDITY: 50%  
WINTER : DRYBULB: 72F

APPLICABLE CODES:  
-2006 INTERNATIONAL BUILDING CODE  
-2006 UNIFORM MECHANICAL CODE

OUTSIDE AIR SCHEDULE									
ROOM NAME	AREA (SQ. FT.)	NO. OF PEOPLE	CFM/PEOPLE	CFM/SQ. FT.	TOTAL CFM/PEOPLE	TOTAL CFM/SQ. FT.	TOTAL CFM	NOTES	
CLINIC AREA	8,490	100	5	0.06	500	510	1,010	WITH RTU-1	

**NOTE:** THE OUTSIDE AIR CALCULATION IS BASED ON ASHRAE 62.1, TABLE 6-1





REVISIONS			
No.	Date	TASK	BY

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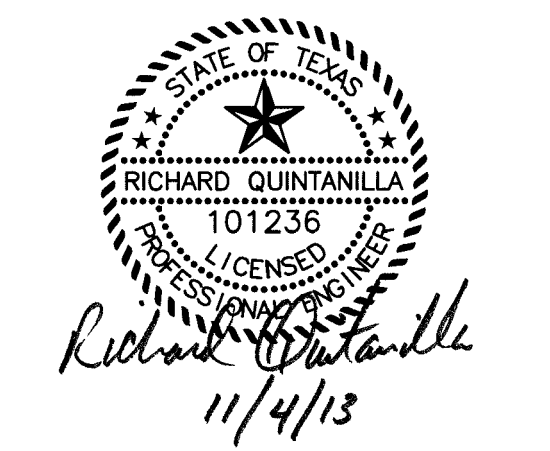


HARRIS HEALTH SYSTEM  
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Houston, Tx 77054

ARCHITECT & ENGINEERS:



ARCHITECT:  
Johnston, LLC  
MEP:  
Johnston, LLC  
CIVIL:  
Johnston, LLC



Form Registration #F-421  
PROJECT TITLE:  
**SPRING BRANCH  
HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston,  
Tx 77055

SHEET TITLE:  
**LIGHTING  
PLAN**

DATE: NOV 4, 2013 DATE:

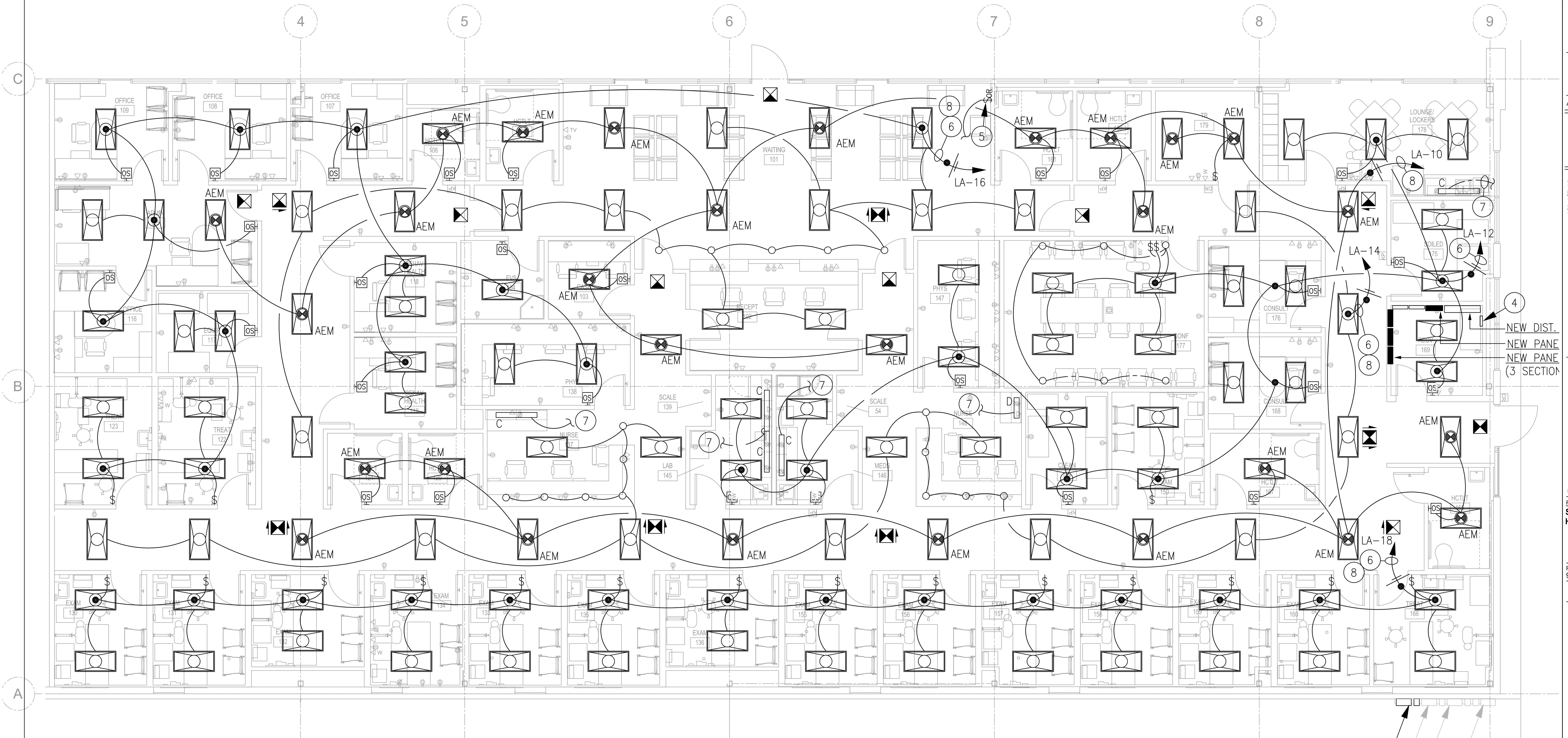
SHEET NUMBER:  
**E - 201**

DRAWN BY: GR  
CHECKED BY: RQ  
SCALE: 1/4"=1'-0"  
JOB NO: 2013.020-02

- # INDICATES GENERAL NOTE.  
Ⓢ INDICATES KEYED PLAN NOTE.
1. ALL 2'x4' LIGHT FIXTURES SHALL BE TYPE "A" UNLESS NOTED OTHERWISE. REFER TO ELECTRICAL SYMBOLS LEGEND DRAWING E-001 FOR LIGHT FIXTURE SCHEDULE.
  2. ALL DOWN LIGHT FIXTURES SHALL BE TYPE "B" UNLESS NOTED OTHERWISE. REFER TO ELECTRICAL SYMBOLS LEGEND DRAWING E-001 FOR LIGHT FIXTURE SCHEDULE.
  3. ALL EXIT SIGNS SHALL BE TYPE "X" AND CIRCUITED TO PANEL LA-8 USING 3#10 IN 3/4" CONDUIT. REFER TO POWER PLAN DRAWING E-101 FOR PANEL SCHEDULE.
  4. NEW LIGHTING CONTROL PANEL "LAR", WATTSTOPPER #LC8-120/277 COMPLY WITH ENERGY CODE FOR LIGHTING AUTOMATIC SHUTDOWN. WIRE AND CONNECT AS REQUIRED.
  5. NEW MANUAL OVERRIDE SWITCH, WATTSTOPPER #AS-100. WIRE AND CONNECT TO NEW LIGHTING RELAY CABINET "LAR" AS REQUIRED.
  6. ROUTE HOMERUN THROUGH LIGHTING RELAY CABINET "LAR" ADJACENT TO PANEL "LA". ALL CONDUCTORS SHALL BE #10 IN 3/4" CONDUIT.
  7. WIRE AND CONNECT TO GENERAL PURPOSE 120 VOLT CIRCUIT IN THIS ROOM.
  8. ALL CONDUCTORS SHALL BE #10 IN 3/4" CONDUIT.

NEW LIGHTING CONTROL PANEL "LAR"

RELAY #	DESCRIPTION	SERVED FROM PANEL	CKT #
1	LIGHTING	LA	12
2	LIGHTING	LA	14
3	LIGHTING	LA	16
4	LIGHTING	LA	18



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

NEW METER & DISCONNECT, REFER TO RISER DIAGRAM ON POWER PLAN  
EXISTING METER & DISCONNECT TO REMAIN  
EXISTING METER & PANEL TO REMAIN

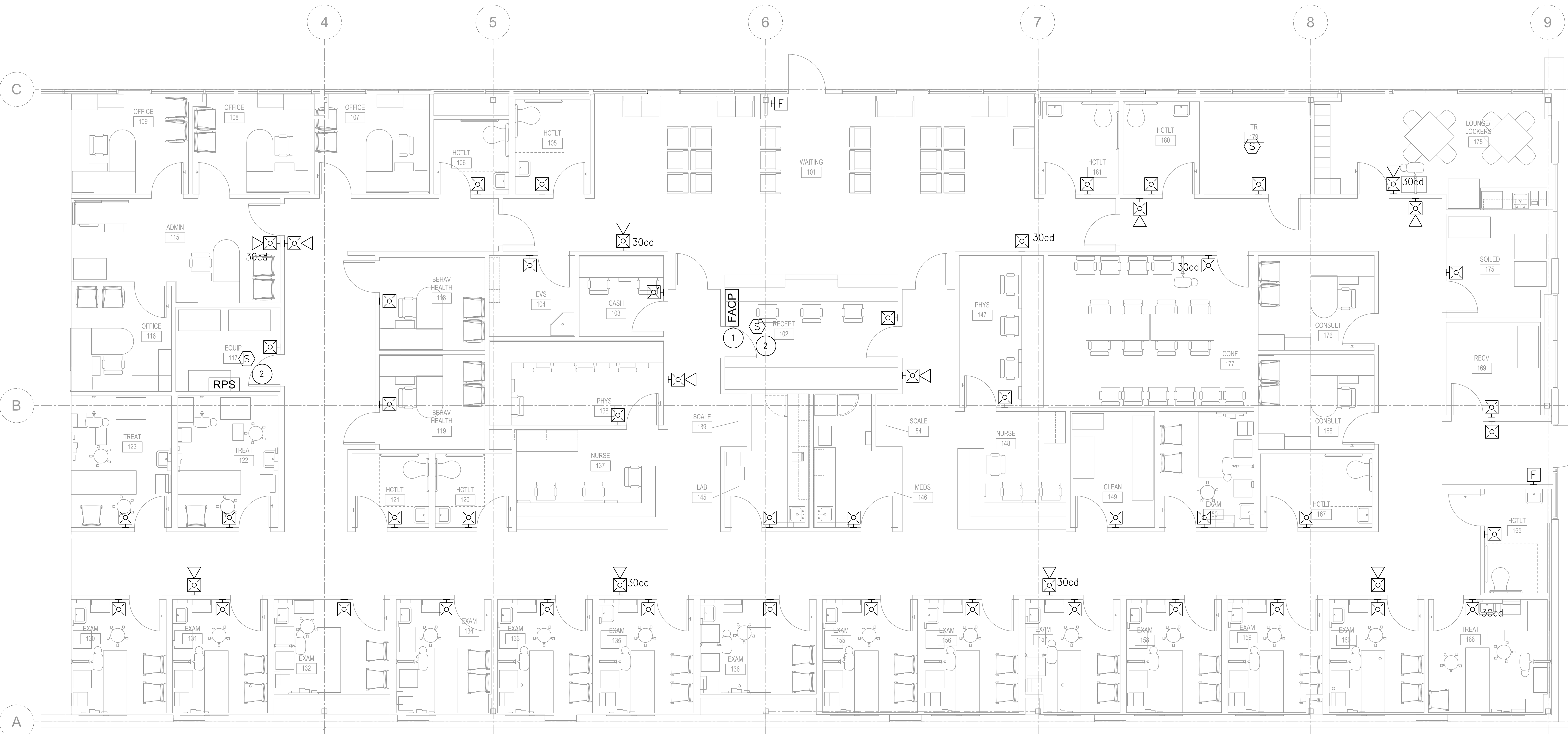


FIRE ALARM SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE POWER SUPPLY
	FIRE ALARM MANUAL PULL STATION, SURFACE MOUNTED AT 44" AFF
	COMBINATION AUDIO AND VISUAL FIRE ALARM, FLUSH WALL MOUNTED AT 80" AFF
	VISUAL FIRE ALARM STROBE LIGHT, FLUSH WALL MOUNTED AT 80" AFF
	SMOKE DETECTOR SURFACE CEILING MOUNTED
	DUCT MOUNTED SMOKE DETECTOR, COORDINATE MOUNTING WITH MECHANICAL CONTRACTOR, (S= SUPPLY DUCT; R= RETURN DUCT)
	FAN SHUT-DOWN RELAY

- FIRE ALARM PLAN KEYED NOTES:**
- FIRE ALARM CONTROL PANEL:** PROVIDE A DEDICATED 120VAC CIRCUIT INTO THE FIRE ALARM ENCLOSURE. PROVIDE ADDITIONAL CONDUIT FROM THE FIRE ALARM ENCLOSURE INTO ACCESSIBLE CEILING SPACE FOR POWER-LIMITED FIRE ALARM CABLING.
  - REMOTE FIRE ALARM POWER SUPPLY:** PROVIDE A DEDICATED 120VAC CIRCUIT INTO THE POWER SUPPLY ENCLOSURE. PROVIDE ADDITIONAL CONDUIT FROM THE ENCLOSURE INTO ACCESSIBLE CEILING SPACE FOR POWER-LIMITED FIRE ALARM CABLING.

- FIRE ALARM SEQUENCE OF OPERATION**
1. The operation of any manual pull station or automatic smoke detector shall cause the following alarm actions and indications to occur:
- The system common alarm LED on the CPU shall flash. The internal audible device shall sound. Acknowledging the alarm condition shall silence the audible device and revert the common alarm LED to a steady state.
  - The 80 character Backlit Alphanumeric Display, shall display the device type, device location, time and date of alarm and a unique custom 32 character message.
  - Transfer the common alarm contacts, sending an alarm signal to an Approved Central Station. (Two dedicated telephone lines, service and connection shall be provided by the Owner).
  - Activate all audible and visual notification devices throughout the facility.
  - Shutdown HVAC units over 2000 cfm.
  - Release electric door locks.

- FIRE ALARM PLAN GENERAL NOTES:**
- THE FIRE ALARM PANEL SHALL BE LOCATED IN A CONSTANTLY ATTENDED LOCATION. WHEN THE MAIN FIRE ALARM CONTROL PANEL IS LOCATED IN AN UN-OCCUPIED AREA A REMOTE MANIPULATOR PANEL SHALL BE PROVIDED.
  - MANUAL PULL STATIONS SHALL BE LOCATED WITHIN 5' OF EGRESS DOORS, WHERE REQUIRED BY THE BOCA'S CODES AND PER NFPA-72.
  - PROVIDE POWER SUPPLIES FOR HAC CIRCUITS WHEN REQUIRED. LOCATE THE POWER SUPPLY IN COMMON ELECTRICAL ROOMS FOR ACCESS TO MAINTENANCE AND SERVICE PERSONNEL.
  - ALL STROBES TO BE 15 CANDLES UNLESS OTHERWISE NOTED.
  - FINISH AND INSTALL DUCT MOUNTED SMOKE DETECTION ON HVAC UNITS OVER 2000 CFM. REFER TO THE MECHANICAL PLANS AND SCHEDULE FOR EXACT LOCATIONS AND QUANTITIES.
  - COORDINATE ALL FIRE ALARM DEVICE LOCATIONS WITH THE ARCHITECT PRIOR TO INSTALLATION.
  - ALL CONDUIT STUBS SHALL BE PROVIDED WITH INSULATED THROAT CONNECTORS TO PROTECT FIRE ALARM CABLES. COORDINATE ALL ROUGH-IN REQUIREMENTS WITH THE MANUFACTURER'S INSTALLATION SHEETS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL CONTRACTOR FOR THE INSTALLATION OF ALL CONDUIT WITH PULL STRINGS, FITTINGS, ALL JOINTS AND ELECTRICAL BOXES WITH DRIMENTS, PENETRATIONS, FIREPROOFING, MOUNTING OF BACK BOXES, AND CONDUIT FOR FIRE ALARM POWER SUPPLIES AND CONNECTION TO ALL NON-LOW VOLTAGE DEVICES.
  - ALL CONDUIT SHALL BE A MINIMUM OF 3/4" UNLESS OTHERWISE NOTED. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A CONDUIT RACKING IN EACH MECHANICAL, ELECTRICAL, TELEPHONE AND ANY OTHER AREA WHERE THE FIRE ALARM WIRING MIGHT BE SUBJECT TO DAMAGE.
  - ALL FLEXIBLE WIRING IS TO BE INSTALLED PARALLEL AND PERPENDICULAR TO THE BUILDING STRUCTURE. INSTALL WIRING TIGHT UP AGAINST THE STRUCTURE FOR PROTECTION. CABLES SHALL BE BRANDED WITH CABLE TIES AND SECURED TO THE STRUCTURE AT A MAXIMUM OF 6" ON CENTER. CABLE SHALL NOT BE ON CEILING GRID OR CEILING TILE.
  - ONLY POWER-LIMITED FIRE ALARM CABLES SHALL BE ALLOWED IN RACEWAYS DESIGNATED FOR FIRE ALARM SYSTEM.
  - THE FIRE ALARM SYSTEM DESIGN SHALL MEET ALL APPLICABLE CODES AND STANDARDS AS ADOPTED BY THE STATE AND LOCAL AUA AND THEIR AMENDMENTS.



**1 FIRE ALARM PLAN**  
SCALE: SCALE 1/4"=1'-0"

REVISIONS			
No.	Date	TASK	BY

**ISSUE FOR PERMIT & PRICING**

**HARRIS HEALTH SYSTEM**  
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ARCHITECT:  
JOHNSTON, LLC  
MEP:  
JOHNSTON, LLC  
CIVIL:  
JOHNSTON, LLC

Firm Registration #F-421  
PROJECT TITLE:  
**SPRING BRANCH HEALTH CENTER**

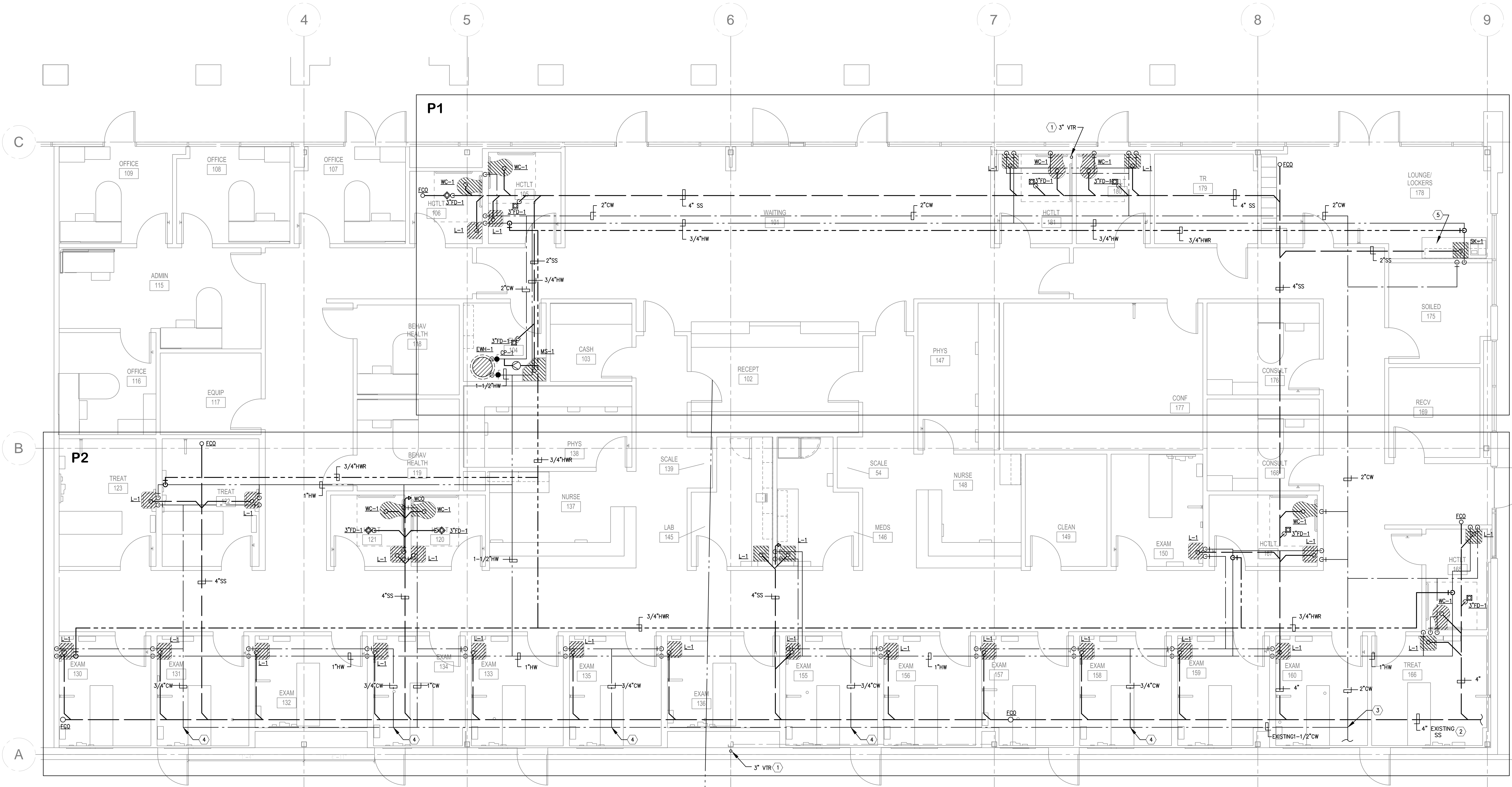
PROJECT LOCATION:  
9801 Long Point, Houston, TX 77055

SHEET TITLE:  
**FIRE ALARM PLAN**

DATE: NOV 4, 2013 DATE:

SHEET NUMBER:  
**E - 301**

DRAWN BY: SCALE: 1/4"=1'-0"  
GR  
CHECKED BY: JOB NO:  
RQ 2013.020-02



No.	Date	TASK	BY

**ISSUE FOR PERMIT & PRICING**

**HARRIS HEALTH SYSTEM**

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2525 Holly Hall Street,  
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**ARCHITECT & ENGINEERS:**



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ARCHITECT: Johnston, LLC  
MEP: Johnston, LLC  
CIVIL: Johnston, LLC



Firm Registration #F-421  
**PROJECT TITLE:**  
SPRING BRANCH HEALTH CENTER

**PROJECT LOCATION:**  
9801 Long Point, Houston, Tx 77055

**SHEET TITLE:**  
PLUMBING FLOOR PLAN

**DATE:** NOV 4, 2013 **DATE:**

**SHEET NUMBER:**  
**P-101**

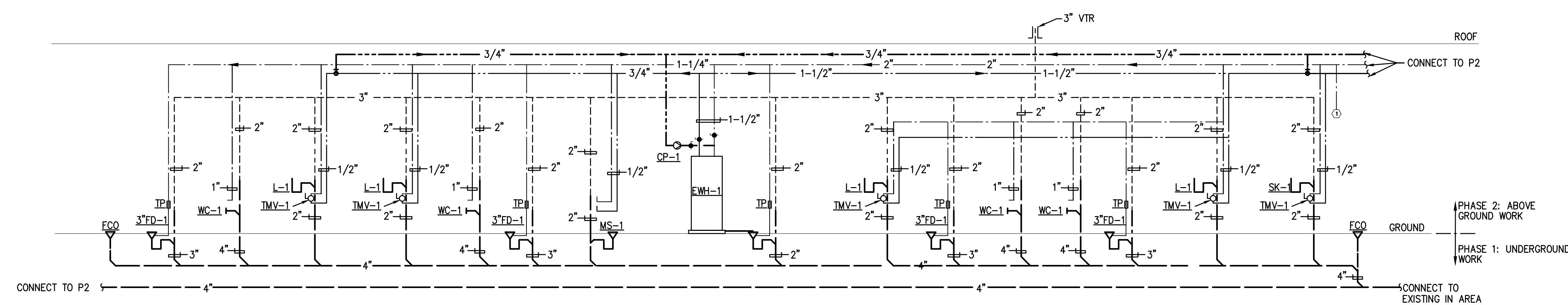
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**CHECKED BY:** ST **JOB NO:** 2013.020-02

**PLUMBING GENERAL NOTES**

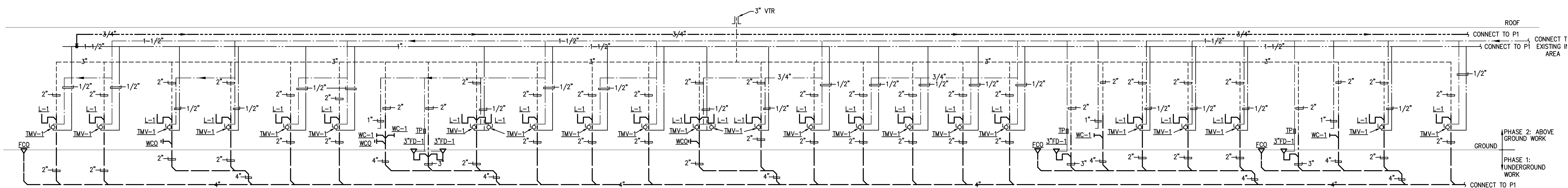
- COORDINATE SAW CUTTING OF THE EXISTING FLOOR FOR THE NEW UNDERGROUND SANITARY SYSTEM WITH THE ARCHITECT.
- ALL FLOOR DRAINS SHALL HAVE TRAP PRIMERS.
- PROVIDE SHOCK ARRESTORS AT END OF ALL WATER LINES SERVING FIXTURES WITH QUICK CLOSING VALVES.
- FIRE WRAP ALL EXISTING PLASTIC SANITARY, VENTS, AND WATER PIPES SO THEY ARE PLENUM RATED.

**PLUMBING NEW CONSTRUCTION KEY NOTES**

- 3" VENT UP TO VTR. PLUMBING CONTRACTOR TO ROUTE VTR(S) AS TO MAINTAIN MINIMUM 10' HORIZONTAL DISTANCE FROM ALL MECHANICAL ROOF TOP EQUIPMENT OUTSIDE AIR INTAKES. COORDINATE WITH MECHANICAL CONTRACTOR.
- EXISTING 4" SANITARY LINE. FIELD VERIFY EXACT LOCATION.
- CONNECT NEW 2" DOMESTIC WATER LINE TO THE EXISTING DOMESTIC WATER LINE.
- CONNECT TO EXISTING WATER STUB OUT.
- PROVIDE 1/2" WATER LINES FOR ICE MAKER AND COFFEE MAKER.



**P1 PLUMBING RISER**  
 P2.01 SCALE: NOT TO SCALE



**P2 PLUMBING RISER**  
 P2.01 SCALE: NOT TO SCALE

**PLUMBING NEW CONSTRUCTION KEY NOTES**  
 ① PROVIDE 1/2\" WATER LINES FOR ICE MAKER AND COFFEE MAKER.

REVISIONS			
No.	Date	TASK	BY

**ISSUE FOR PERMIT & PRICING**

**HARRIS HEALTH SYSTEM**

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 2525 Holly Hall Street,  
 Houston, Tx 77054

ARCHITECT & ENGINEERS:



ARCHITECT:  
 Johnston, LLC  
 MEP:  
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 CIVIL:  
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**SHEET TITLE:**

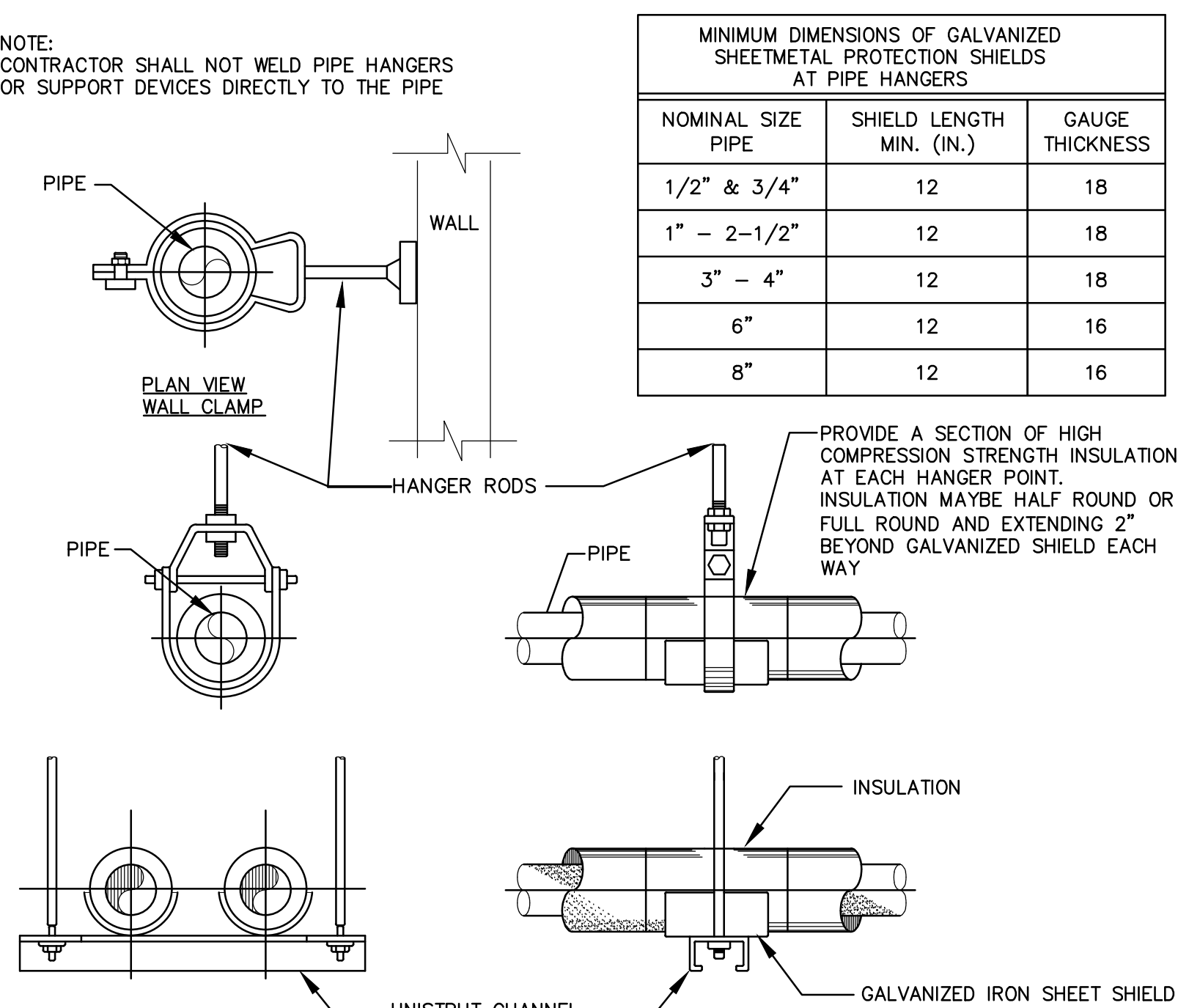
**PLUMBING RISERS**

**DATE:** NOV 4, 2013 **DATE:**

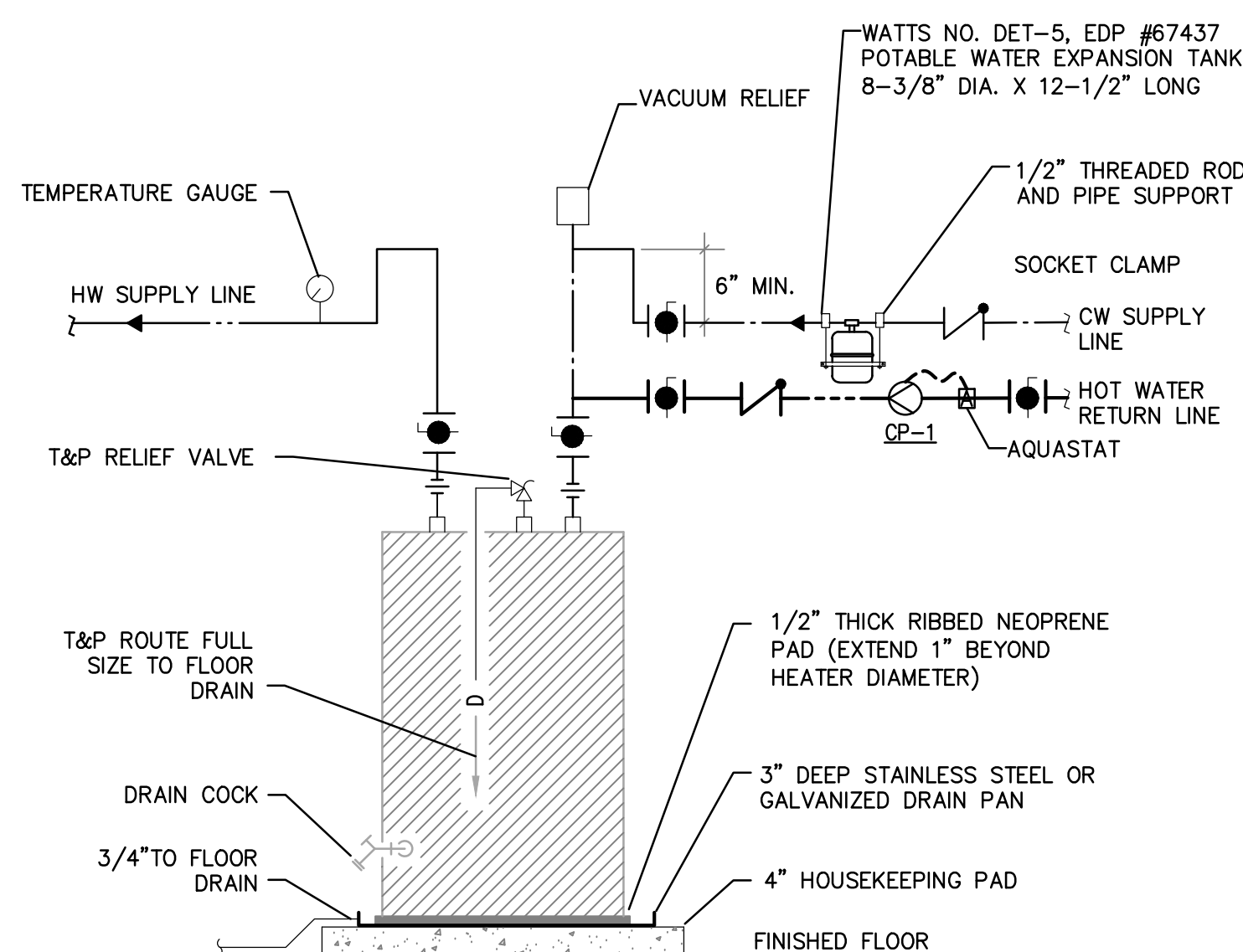
**SHEET NUMBER:**  
**P-201**

**DRAWN BY:** LP **SCALE:** NONE  
**CHECKED BY:** ST **JOB NO:** 2013.020-02

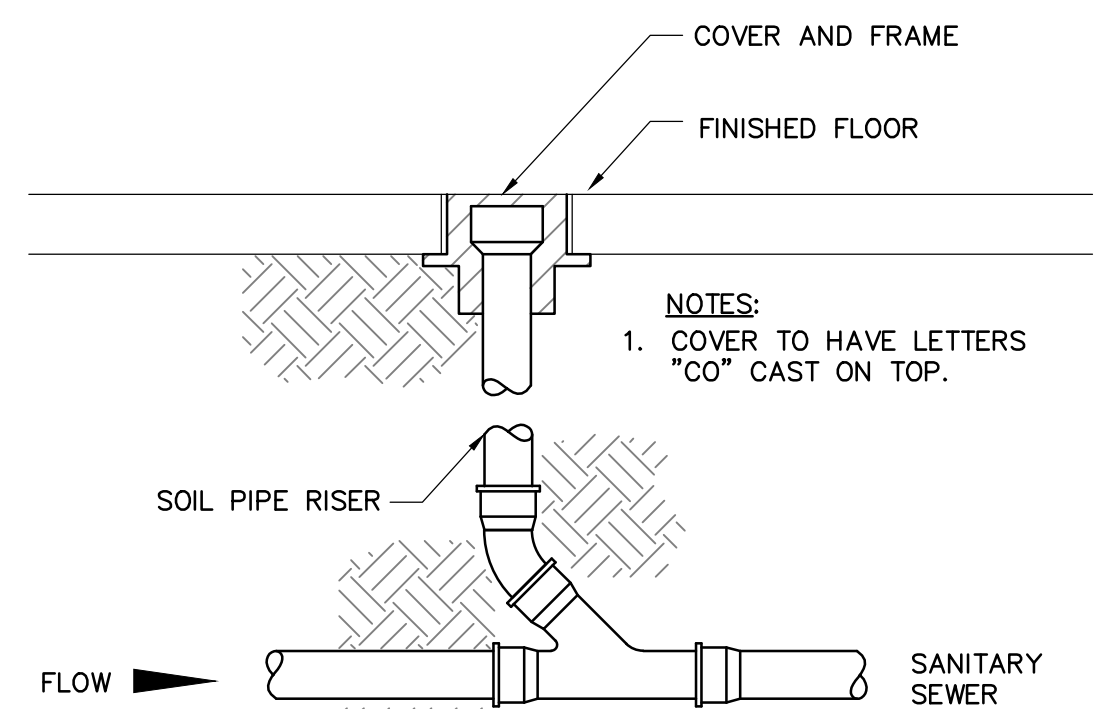
NOTE:  
CONTRACTOR SHALL NOT WELD PIPE HANGERS  
OR SUPPORT DEVICES DIRECTLY TO THE PIPE



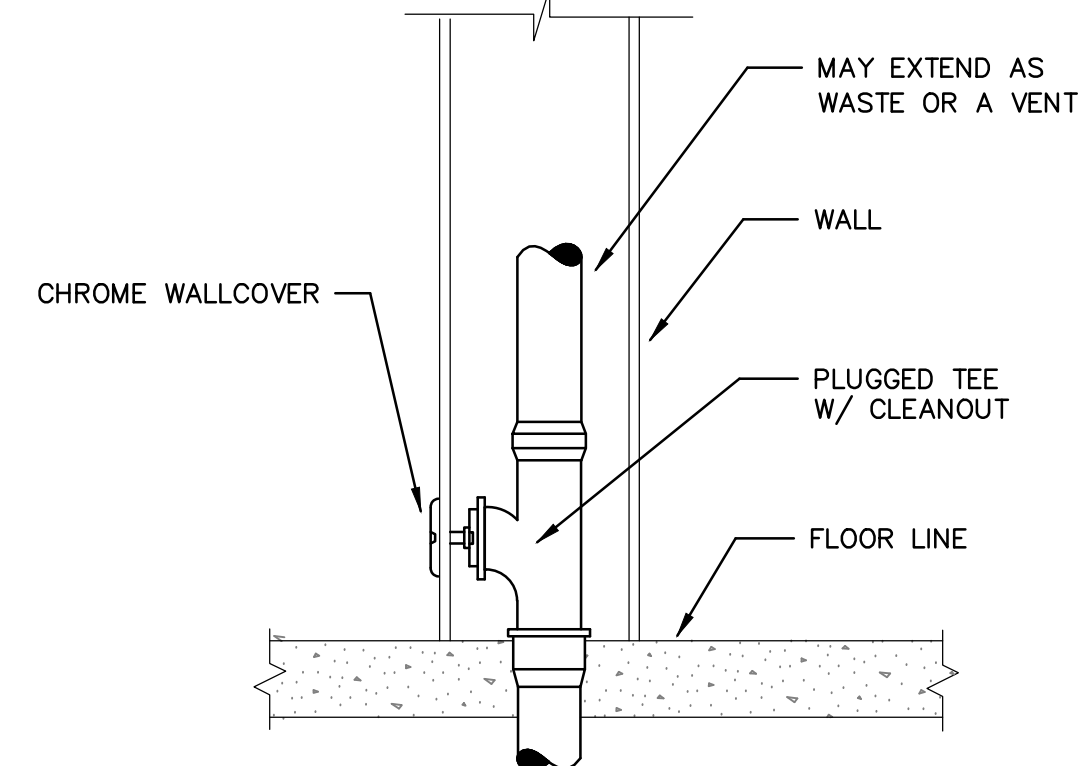
**3 PIPE HANGERS**  
P5.01 NOT TO SCALE



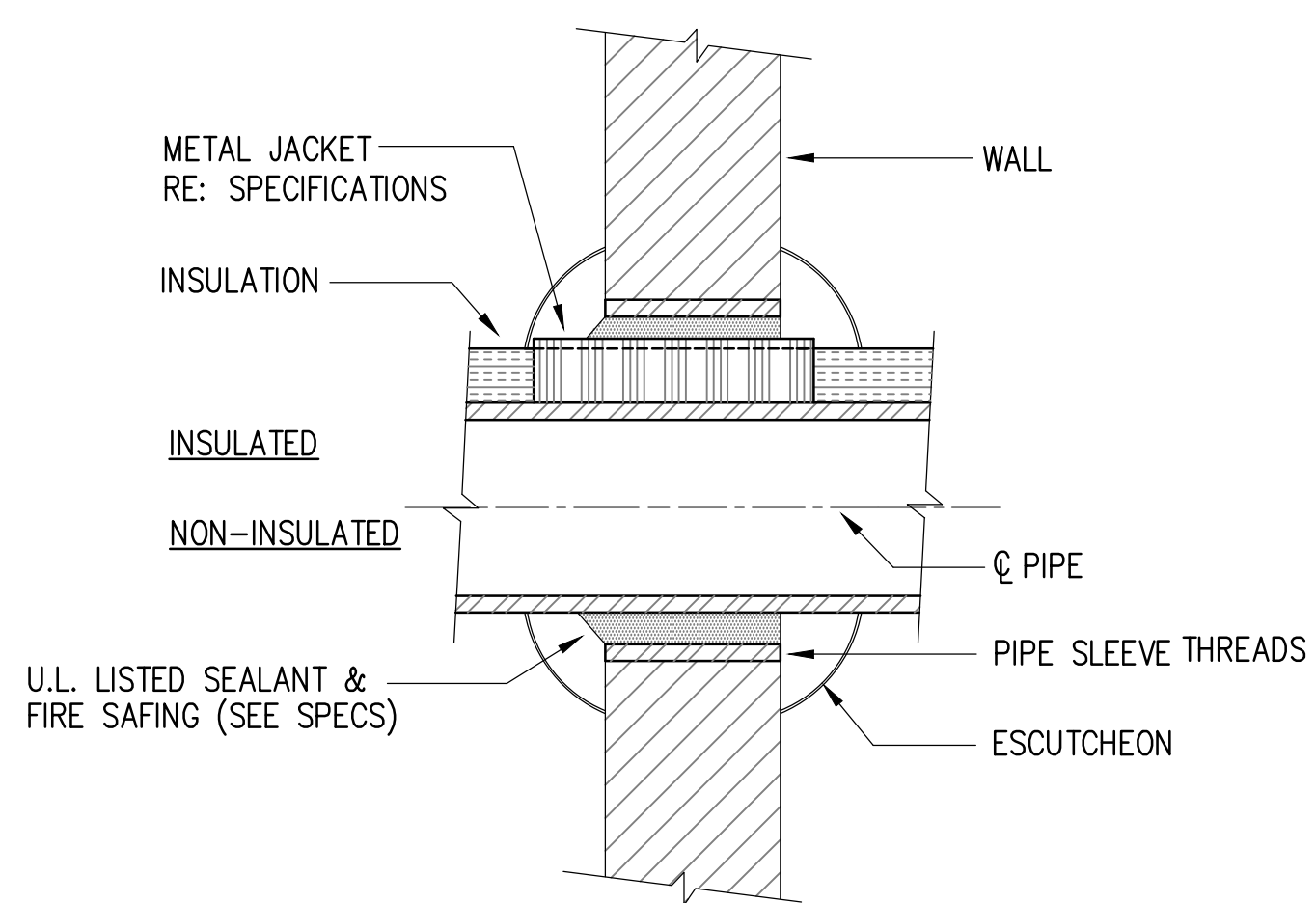
**8 ELECTRIC WATER HEATER**  
P5.02 SCALE: NONE



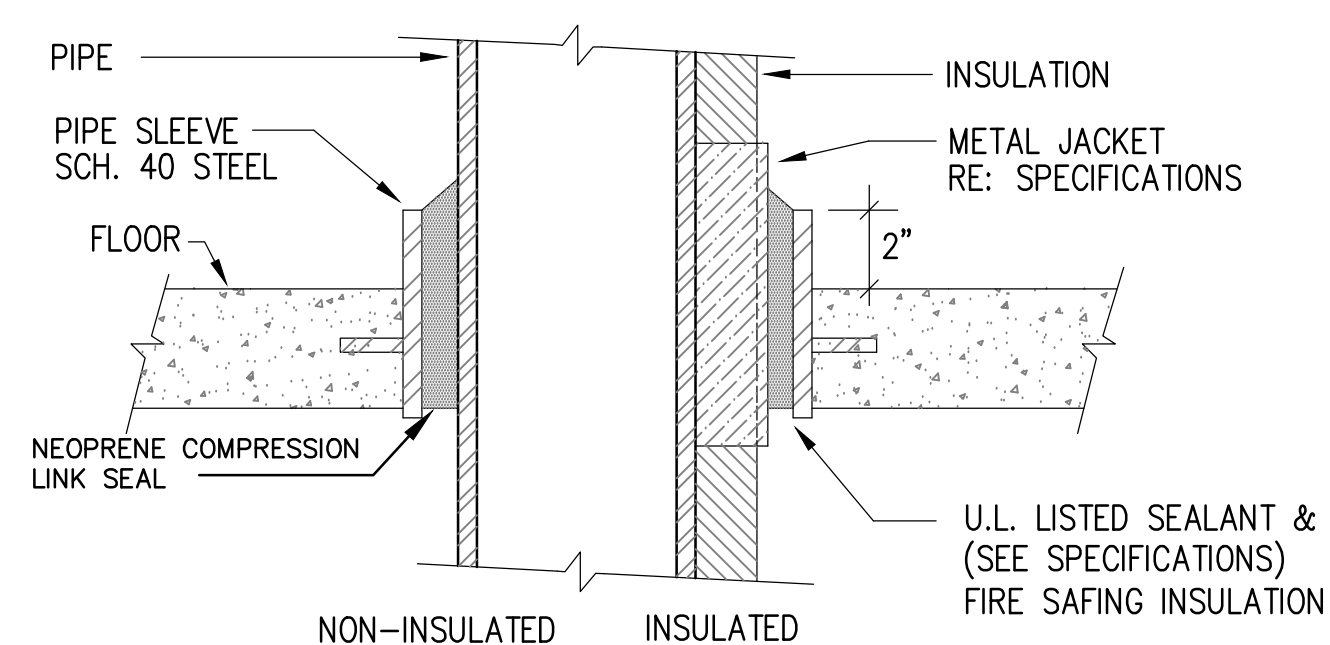
**2 FLOOR CLEANOUT DETAIL**  
P5.01 NOT TO SCALE



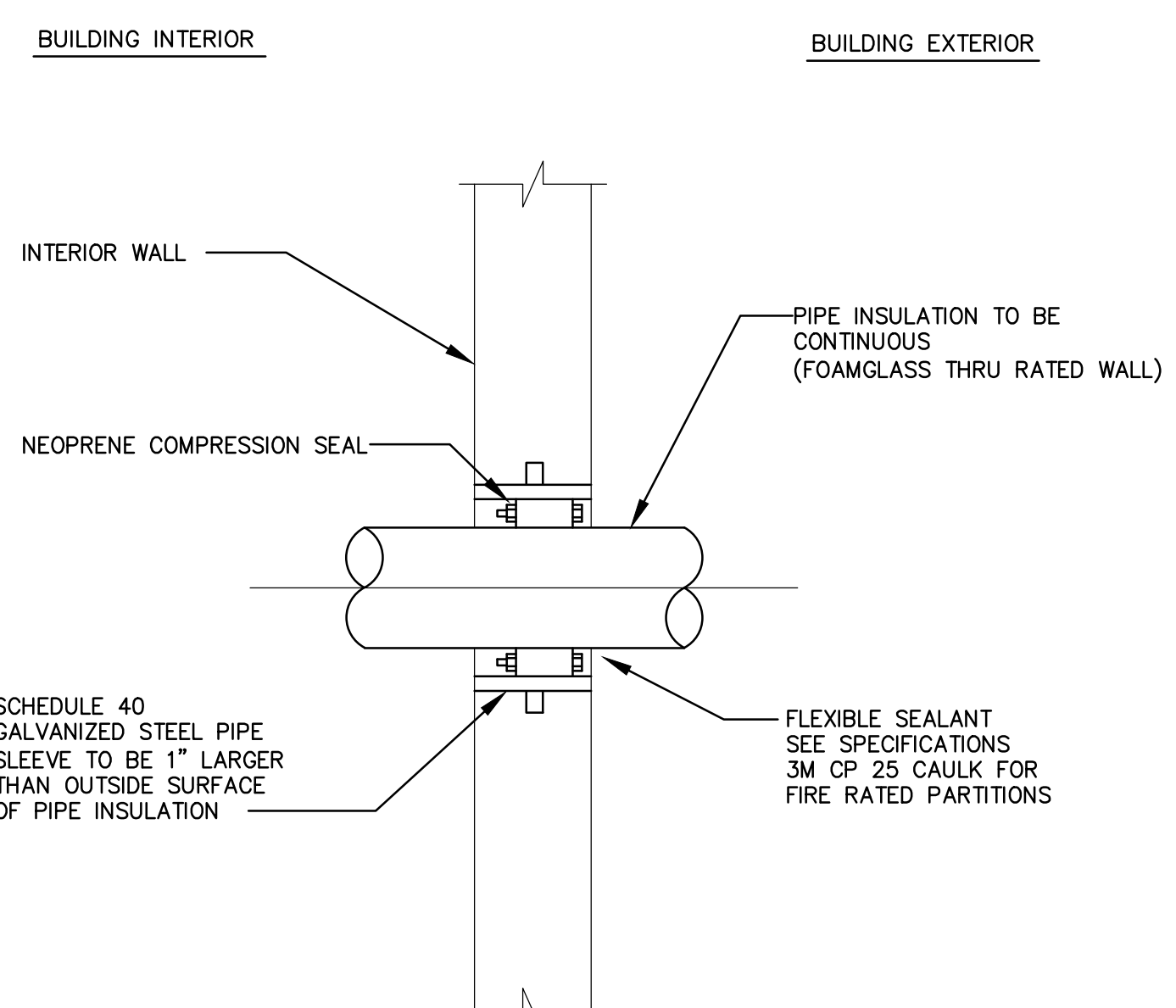
**1 WALL CLEANOUT DETAIL**  
P5.01 NOT TO SCALE



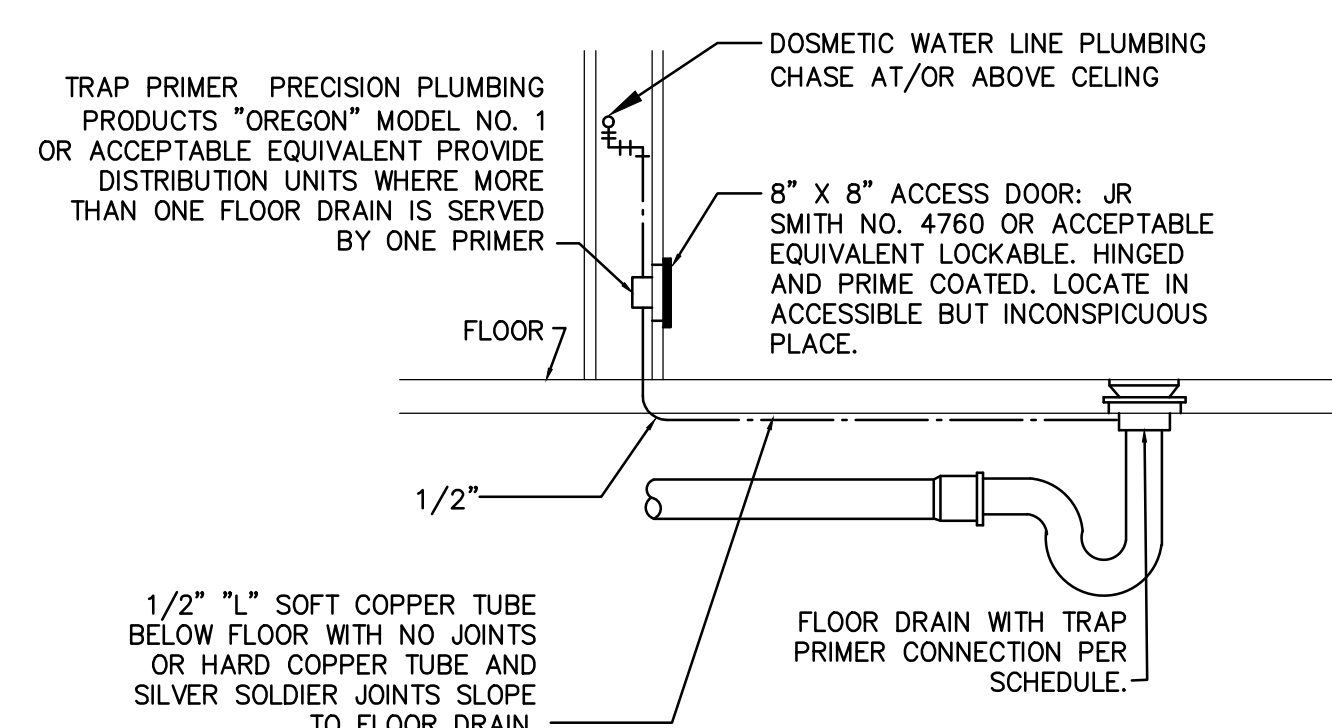
**5 WALL PENETRATION**  
P5.01 SCALE: NONE



**7 FLOOR PENETRATION**  
P5.01 SCALE: NONE



**4 PIPE PENETRATION THRU WALL**  
P5.01 NOT TO SCALE



**6 TYPICAL TRAP PRIMER MOUNTING DETAIL**  
P5.01 NOT TO SCALE

No.	Date	TASK	BY

ISSUE FOR PERMIT & PRICING

**HARRIS HEALTH SYSTEM**

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT & ENGINEERS:

**JOHNSTON, LLC**  
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HOUSTON, TX 77057  
713-532-2466  
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ARCHITECT:  
Johnston, LLC  
MEP:  
Johnston, LLC  
CIVIL:  
Johnston, LLC

JOHNSTON, LLC, TBPE FIRM  
REGISTRATION NO. F-421



Firm Registration # F-421

PROJECT TITLE:  
**SPRING BRANCH HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston,  
Tx 77055

SHEET TITLE:

PLUMBING DETAILS

DATE: NOV 4, 2013 DATE:

SHEET NUMBER:

**P-301**

DRAWN BY:  
LP SCALE:  
NONE

CHECKED BY:  
ST JOB NO:  
2013.020-02

REVISIONS

No.	Date	TASK	BY

ISSUE FOR PERMIT & PRICING



HARRIS HEALTH SYSTEM  
2525 Holly Hall Street,  
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JOHNSTON, LLC

JOHNSTON, LLC, TBPB FIRM REGISTRATION NO. F-421

J.A. JOHNSTON, JR.  
94847  
PLUMBING  
REGISTERED PROFESSIONAL ENGINEER

NOV 4 13

JOHNSTON, LLC, TBPB FIRM REGISTRATION NO. F-421



Firm Registration #F-421

PROJECT TITLE:  
SPRING BRANCH  
HEALTH CENTER

PROJECT LOCATION:  
9801 Long Point, Houston,  
Tx 77055

SHEET TITLE:

PLUMBING  
SCHEDULES

DATE: NOV 4, 2013 DATE:

SHEET NUMBER:

P-401

DRAWN BY:  
LP SCALE:  
NONE

CHECKED BY:  
ST JOB NO:  
2013.020-02

PLUMBING SYMBOLS

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	WATER CLOSET		P-TRAP
	URINAL		ROOF DRAIN W/OVERFLOW DRAIN
	SINK		ROOF DRAIN
	LAVATORY		HOSE BIBB/WALL HYDRANT
	LAVATORY		COLD WATER (CW)
	MOP SINK		HOT WATER (HW)
	ELEC. WATER COOLER		HOT WATER RETURN
	FLOOR SINK		SANITARY DRAIN (S) ABOVE FLOOR
	POINT OF NEW CONNECTION		SANITARY DRAIN (S) BELOW FLOOR
	SHUT OFF VALVE		SANITARY VENT (V)
(E)	EXISTING		EXISTING COLD WATER
	HOT WATER RETURN BALANCING VALVE		

PIPING MATERIALS SCHEDULE

PLUMBING SYSTEM	PLUMBING MATERIAL DESCRIPTION
VENT PIPING	STANDARD WEIGHT CAST IRON, W/ NO-HUB JOINTS
SANITARY DRAIN PIPING	STANDARD WEIGHT CAST IRON, W/ HUB JOINTS (BELOW SLAB)
SANITARY DRAIN PIPING	STANDARD WEIGHT CAST IRON, W/ NO-HUB JOINTS (ABOVE SLAB)
DOMESTIC WATER PIPING	TYPE "L" COPPER TUBING, W/ WROUGHT COPPER FITTINGS
FIRE PROTECTION PIPING	STANDARD 40 BLACK STEEL PIPE, W/ CAST IRON FITTINGS

SHOCK ARRESTOR SCHEDULE

P.D.I. SYMBOL	FIXTURE UNITS	SIZE
(A)	1-11	1/2" NPT
(B)	12-32	3/4" NPT
(C)	33-60	1" NPT
(D)	61-113	1 1/4" NPT
(E)	114-154	1 1/2" NPT
(F)	155-330	2" NPT

NOTES:  
1. ALL ARRESTORS ARE TO HAVE ACCESS PANELS WHERE INACCESSIBLE.  
2. ALL FIXTURE WATER SUPPLIES SHALL BE INSTALLED WITH APPROXIMATELY SIZED ARRESTORS IN COMPLIANCE WITH MANUFACTURER'S INSTALLATION RECOMMENDATIONS.

THERMOSTATIC MIXING VALVE

UNIT NO.	INLET HOT WATER (DEGREE F)	OUTLET MIXED WATER (DEGREE F)	MINIMUM FLOW (GPM)	MAXIMUM FLOW (GPM)	VALVE FINISH	MANUFACTURER / MODEL
TMV-1	120	110	0.5	2.5	ROUGH BRONZE	WATTS LFJSG-B

NOTES:  
1. MAKE WATER CONNECTIONS TO THERMOSTATIC MIXING VALVE(S) IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.  
2. PROVIDE PIPE INCREASERS AND/OR VALVES AS REQUIRED.  
3. PROVIDE UNION CONNECTIONS.

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	SIZE OF CONNECTION				REMARKS
		CW	HW	SAN	VENT	
WC-1	WATER CLOSET FLUSH VALVE	1"	---	4"	2"	AMERICAN STANDARD MIXERA 3043102, WHITE, FLOOR MOUNTED, FLUSH VALVE, 1.28 GPF, ADA 17" RH HEIGHT, BEMIS MANUFACTURING #190555C, WHITE, OPEN FRONT SEAT LESS COVER, SLOAN #111-1.28 SMO HIGH EFFICIENCY FLUSH VALVE WITH SIZE C BATTERY JR SMITH CARRIER, MOUNT AT HANDICAP HEIGHT, FIELD VERIFY CARRIER TYPE AND ORIENTATION.
L-1	LAVATORY	1/2"	1/2"	2"	2"	AMERICAN STANDARD LUCERNE 0355.012, LAVATORY - WALL MOUNTED, CHICAGO FAUCET 116.212.21.1 WITH 6V LITHIUM CRP2 BATTERY GRID STRAINER, MCGUIRE P-TRAP, MCGUIRE #2165 ANGLE STOPS, TEMPERATURE MIXING VALVE, TRUEBRO INSTALLATION KIT, JR SMITH CARRIER (FIELD VERIFY TYPE AND ORIENTATION), P-TRAP AND SUPPLIES TO BE WRAPPED WITH TRUEBRO INSULATION KIT
SK-1	SINGLE COMPARTMENT SINK	1/2"	1/2"	2"	2"	ELKAY #LRAD2022, SINGLE BOWL SINK ADA COMPLIANT, 18 GA 20"x22"x6", STAINLESS STEEL, DRAIN OFF CENTER, ADA, CHICAGO 1100-GNZAES-317CP DOUBLE LEVER FAUCET AND LK-35 CRUMB STRAINER, ANGLE STOP
SK-2	DOUBLE COMPARTMENT SINK	1/2"	1/2"	2"	2"	ELKAY #LRAD(Q)3722, SINGLE BOWL SINK ADA COMPLIANT, 18 GA 20"x22"x6", STAINLESS STEEL, DRAIN OFF CENTER, ADA, CHICAGO 1100-GNZAES-317CP DOUBLE LEVER FAUCET AND LK-35 CRUMB STRAINER, ANGLE STOP
MS-1	MOP SINK	1/2"	1/2"	3"	2"	OP-40 FLOOR MOUNTED MOP SINK, STAINLESS STEEL, FIAT 830-AA FAUCET; 832-AA HOSE AND HOSE BRACKET, BOBRICK B-223x36 STAINLESS STEEL MOP HANGER.
EW-1	EYEWAS/DRENCH HOSE UNIT	1/2"	1/2"	---	---	GUARDIAN 05022, DECK MOUNTED, PROVIDE THERMOSTATIC MIXING VALVE G3600, MOUNT AT HANDICAP HEIGHT.
FD	FLOOR DRAIN	---	---	AS NOTED	2"	JR SMITH 2005A, FLOOR DRAIN, ROUND TOP, NICKEL BRONZE STRAINER
WCO	WALL CLEAN OUT	---	---	---	---	JAY R. SMITH #4472 WALL CLEAN OUT, TAPER THREAD PLUG WITH ROUND COVER
FCO	FLOOR CLEAN OUT					JAY R. SMITH 4020 SERIES, ROUND WITH NIKEL BRONZE TOP
(A)	SHOCK ABSORBER					WADE MODEL WATER HAMMER ARRESTER, ALL STAINLESS STEEL BELLOWS AND CASING, APPROVED FOR CONCEALED WALL CONSTRUCTION, PDI CERTIFIED FOR WH-201 STANDARD.
TP	TRAP PRIMER	1/2"	-	-	-	PPP MOP CPO-500, PRECISION PLUMBING PRODUCTS "DUAL FLOW" AUTOMATIC FLOOR DRAIN TRAP PRIMER, SINGLE SERVICE FD TRAP, ACTIVE FIXTURE, DO NOT SUBJECT TRAP PRIMER VALVE TO ROUGH IN PRESSURE TEST.
IM-1	VALVE IN WALL BOX WITH FINAL CONNECTION	1/2"	-	-	-	GRY GRAY BMB75
WF-1	IN LINE WATER FILTER	1/2"	---	---	---	AQUA-PURE #AP717
BP-1	DOUBLE CHECK VALVE	1/2"	-	-	-	WATTS #7

NOTE:  
1. ALL PIPES, FIXTURES, VALVES AND FITTINGS SHALL BE MADE IN THE USA.

ELECTRIC WATER HEATER SCHEDULE

UNIT NO.	STORAGE CAPACITY (GALLONS)	RECOVERY AT 80 deg F TEMP. RISE (GPH)	KW	VOLTAGE	PHASE	TEMP RISE	MANUFACTURER / MODEL	REMARKS
EWH-1	80	-	12	208	3	-	A.O. SMITH/MODEL DEN-80	

PUMP

UNIT NO.	DESCRIPTION	MANUFACTURER	MODEL NO	MATERIAL	V/HP	REMARKS
CP-1	RECIRCULATION PUMP	GRUNFOS	UPS-15-35SFC	BRONZE	115/0.15	3 SPEED, FLANGE CONNECTIONS ON 3/4" LINE, WITH NO COUPLING PROVIDE TIMER KIT AND THERMOSTAT AQUASTAT

VOICE/DATA (FOR REQUIREMENTS, REFER TO "FACE PLATE, BACK BOX, AND CONDUIT REQUIREMENTS," SHEET T001)		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO TOP OF OUTLET COVER
□ X	DATA OUTLET (SUB-SCRIPT REPRESENTS NUMBER OF OUTLETS IN FACEPLATE)	18" ABOVE FINISHED FLOOR
□ K	DATA OUTLET (SPECIAL MOUNTING HEIGHT) (SUB-SCRIPT REPRESENTS NUMBER OF OUTLETS IN FACEPLATE)	PER ARCH. ELEVATIONS
□ X	DATA OUTLET (FLOOR - FLUSH OR BELOW FLOOR) (SUB-SCRIPT REPRESENTS NUMBER OF OUTLETS IN FACEPLATE)	FLUSH FLOOR OR SURFACE MOUNT BOX
□ X	DATA OUTLET (CEILING - FLUSH OR ABOVE CEILING) (SUB-SCRIPT REPRESENTS NUMBER OF OUTLETS IN FACEPLATE)	FLUSH CEILING OR ABOVE CEILING (AC)
□	WIRELESS ACCESS POINT CONNECTION	ABOVE CEILINGS
◀ W	WALL PHONE VOICE OUTLET	45" ABOVE FINISHED FLOOR

AUDIO/VISUAL		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO TOP OF OUTLET COVER
AV	AUDIO/VISUAL WALL INTERFACE (CONFIGURATION DETERMINED BY OWNER)	WALL
DP	DVD PLAYER	PER ARCH. ELEVATIONS
PJ	OVERHEAD PROJECTOR	CEILING

INTERCOM		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO TOP OF OUTLET COVER
ID	INTERCOM MASTER WITH VIDEO	DESK OR WALL
ID VR	INTERCOM MASTER WITH VIDEO AND DOOR RELEASE	DESK OR WALL
IF	INTERCOM STATION	FLUSH IN WALL
IF V	INTERCOM STATION WITH VIDEO	FLUSH IN WALL
IW	INTERCOM STATION	SURFACE MOUNT - WALL
IV	INTERCOM STATION WITH VIDEO	SURFACE MOUNT - WALL

PAGING SYSTEM		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO TOP OF OUTLET COVER
CS	PAGING SPEAKER	CEILING
V	VOLUME CONTROL	PER ARCHITECT WALL ELEVATION

NURSE CALL (FOR REQUIREMENTS, REFER TO "NURSE CALL BACK BOX AND CONDUIT REQUIREMENTS," SHEET T001.)		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO TOP OF OUTLET COVER
EP	EMERGENCY PULL CORD STATION	PER ARCH. WALL ELEVATIONS
NM	NURSE MASTER STATION CONNECTION	PER ARCH. WALL ELEVATIONS
DL	AUDIBLE AND VISUAL DOME LIGHT	CEILING MOUNTED
Z	AUDIBLE AND VISUAL ZONE LIGHT	CEILING MOUNTED

TELEVISION (FOR REQUIREMENTS, REFER TO "TELEVISION BACK BOX AND CONDUIT REQUIREMENTS," SHEET T001.)		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO TOP OF OUTLET COVER
TV	TV OUTLET	MATCH POWER OR PER ARCH. ELEVATIONS
TV D	COMBINATION TV/DATA OUTLET	MATCH POWER, OR PER ARCH. ELEVATIONS

SECURITY		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO TOP OF OUTLET COVER
CR	SECURITY CARD READER	PER ARCH. WALL ELEVATION
KP	SECURITY KEY PAD	PER ARCH. WALL ELEVATION
DR	SECURITY DOOR RELEASE BUTTON	WALL OR CASEWORK, OWNER DIRECTION
DC	SECURITY DOOR CONTACT	IN DOOR FRAME
PB	SECURITY PANIC BUTTON	WALL OR CASEWORK, OWNER DIRECTION
GB	GLASS BREAK SENSOR	PER ARCH. WALL ELEVATION
MD	MOTION DETECTOR	PER ARCH. WALL ELEVATION
CC	SECURITY CCTV CAMERA - PAN/TILT/ZOOM - CEILING MOUNT	CEILING MOUNTED
WC	SECURITY CCTV CAMERA - PAN/TILT/ZOOM - WALL MOUNT	WALL MOUNTED
WP	SECURITY CCTV CAMERA - PAN/TILT/ZOOM, WEATHER PROOF	WALL POLE, OR PARAPET
F	SECURITY CCTV CAMERA - FIXED - CEILING MOUNT	CEILING MOUNTED
W	SECURITY CCTV CAMERA - FIXED - WALL MOUNT	WALL MOUNTED
WP	SECURITY CCTV CAMERA - FIXED, WEATHER PROOF	WALL POLE OR PARAPET

SHEET INDEX	
SHEET #	DESCRIPTION
T-000	LEGENDS, INDEX AND NOTES - TELECOM
T-001	FACEPLATE, BACKBOX, AND CONDUIT REQUIREMENTS - TELECOM
T-201	LEVEL 1 FLOOR PLAN - TELECOM
T-401	ENLARGED PLANS AND ELEVATIONS - TELECOM

TELECOMMUNICATIONS/LOW VOLTAGE SYSTEMS GENERAL CONSTRUCTION NOTES	
G1.	COORDINATE LOCATION AND MOUNTING REQUIREMENTS OF ALL CEILING MOUNTED OR ABOVE CEILING MOUNTED DEVICES WITH REFLECTED CEILING PLAN, LIGHTING LAYOUT, AND OTHER CEILING OR ABOVE CEILING MOUNTED EQUIPMENT.
G2.	ALL ABOVE CEILING WORK IN EXISTING FACILITY IS TO BE CONDUCTED IN ACCORDANCE WITH FACILITY I.C.R.A. POLICIES.
G3.	REFER TO SHEET T001 FOR ALL FACE PLATE, BACK BOX, AND CONDUIT SIZE REQUIREMENTS FOR ALL VOICE/DATA OUTLETS.
G4.	PATIENT ROOM HEADWALL DEVICES - PRIOR TO ROUGH-IN, COORDINATE EXACT DEVICE LOCATIONS, BACKBOX, AND CONDUIT REQUIREMENTS WITH ARCHITECTURAL HEADWALL ELEVATIONS AND OWNER FURNISHED PRE-FABRICATED HEADWALL REQUIREMENTS.
G5.	DEVICES MOUNTED INADJACENT TO CASEWORK - PRIOR TO ROUGH-IN, COORDINATE EXACT DEVICE LOCATIONS WITH ARCHITECTURAL CASEWORK ELEVATIONS. COORDINATE WITH CASEWORK SHOP DRAWINGS FOR CABLING PATHWAY AND ROUGH-IN REQUIREMENTS.
G6.	TELEVISION OUTLETS - COORDINATE EXACT DEVICE LOCATION WITH TV BRACKET MOUNTING LOCATION AND ADJACENT TO POWER OUTLET AS INDICATED ON ARCHITECTURAL FLOOR PLANS, ARCHITECTURAL WALL ELEVATIONS, AND ELECTRICAL POWER DRAWINGS.
G7.	DRAWINGS ARE SCHEMATIC IN NATURE AND ARE NOT DRAWN TO SCALE. CONTRACTOR IS RESPONSIBLE FOR COORDINATING EXACT ROUTING OF ALL SERVICES AND DISTANCES WITH EXISTING CONDITIONS AND WITH ALL OTHER TRADES.
G8.	CONDUITS ARE TO HAVE A MAXIMUM 40% FILL RATIO.
G9.	IN THE INSTALLATION OF THIS WORK, THE CONTRACTOR IS TO COMPLY WITH THE REQUIREMENTS OF LOCAL LAWS AND ORDINANCES, THE LAWS OF THE STATE OF TEXAS, THE NATIONAL BOARD OF FIRE UNDERWRITERS, AND THE NATIONAL ELECTRIC CODE.
G10.	CAREFULLY EXAMINE THE PREMISES TO DETERMINE THE EXTENT OF WORK AND THE CONDITION UNDER WHICH IT MUST BE DONE. IF THERE ARE ANY QUESTIONS REGARDING THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ENGINEER OR DESIGNATED REPRESENTATIVE BEFORE PROCEEDING WITH WORK OR RELATED WORK IN QUESTION.
G11.	ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.
G12.	ALL WORK IS TO BE DONE IN A THOROUGH AND PROFESSIONAL MANNER ACCORDING TO INDUSTRY AND MANUFACTURERS' STANDARDS AND WILL BE SUBJECT TO INSPECTION AND ACCEPTANCE. WORK THAT IS DEEMED SUB-STANDARD WILL BE SUBJECT TO REPLACEMENT OR REPAIR AT NO ADDITIONAL COST TO THE OWNER OR GENERAL CONTRACTOR.
G13.	THE CONTRACTOR IS REQUIRED TO PROPERLY FIRE-STOP ANY CORES UTILIZED FOR THE PLACEMENT OF COMMUNICATIONS CABLING WITH APPROVED FIRE-STOPPING COMPOUND AND ACCORDING TO LOCAL AND NATIONAL CODES.
G14.	ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL PROJECT SPECIFICATIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER OR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.
G15.	ALL PENETRATED STRUCTURES ARE TO BE RETURNED TO ORIGINAL CONDITION AND FIRE RATING.
G16.	REPRESENTATION OF OUTSIDE PLANT CABLE, PATHWAY, AND FACILITIES IS APPROXIMATE AND SCHEMATIC IN NATURE. DO NOT RELY ON PLANS FOR DETERMINATION AND COORDINATION OF EXACT LOCATIONS. VERIFY ALL PERTINENT CONDITIONS AND LOCATIONS WITH THE CIVIL ENGINEER AND UTILITY LOCATION SERVICES PRIOR TO PERFORMING WORK.
G17.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER BONDING AND GROUNDING OF THE SYSTEMS IN COMPLIANCE WITH ANSI JSTD 607-A.
G18.	ALL CABLING SHALL BE RUN IN EITHER PROJECT PROVIDED CONDUIT OR CABLE TRAY SYSTEM FOR MAJOR CABLING PATHS. WHEN INSTALLING UTP STATION CABLES TO THE CABLE TRAY SYSTEM, DO NOT EXCEED BUNDLES OF 3" DIAMETER. WHEN DEVIATING FROM THE MAIN CABLE PATHWAY, CONTRACTOR SHALL UTILIZE PROPER SUPPORT COMPONENTS FOR ATTACHMENT TO DECK. PROPER SUPPORTS SHOULD BE ALL-THREAD TYPE RODS ATTACHED TO DECK. DO NOT USE CEILING GRID SUPPORTS OR SUPPORTS OF OTHER TRADES. DO NOT EXCEED FIFTY (50) UTP STATION CABLES PER HOOK.
G19.	THE CONTRACTOR SHALL PROVIDE, INSTALL, TERMINATE, PATCH, CROSS-CONNECT, LABEL AND DOCUMENT COMMUNICATIONS CABLING SYSTEM BASED ON THE PROJECT SPECIFICATIONS AND ACCOMPANYING DRAWINGS. THE STRUCTURED CABLING SYSTEM (SCS) SHALL INCLUDE COPPER AND FIBER OPTIC DISTRIBUTION SYSTEMS AS SPECIFIED.
G20.	THE CONTRACTOR SHALL PROVIDE AND INSTALL AN INTRABUILDING COPPER AND FIBER OPTIC BACKBONE CABLING SYSTEM FROM THE MAIN DISTRIBUTION FRAME ( MDF ), TO THE INTERMEDIATE DISTRIBUTION FRAMES ( IDF ).
G21.	PROVIDE, INSTALL, AND TERMINATE HORIZONTAL UNSHIELDED TWISTED PAIR (UTP) COPPER CABLING FOR VOICE AND DATA SERVICES THROUGHOUT THE PROJECT. THE INFORMATION OUTLETS WILL ACCOMMODATE TELEPHONES, COMPUTERS, FACSIMILES AND OTHER SUCH COMMUNICATIONS DEVICES.
G22.	NO STATION CABLE SHALL BE LONGER THAN NINETY (90) METERS. IF THE CONTRACTOR BELIEVES ANY STATION CABLE WILL BE LONGER THAN NINETY-(90) METERS, WRITTEN APPROVAL FROM THE OWNER'S ARCHITECT/ENGINEER WILL BE REQUIRED PRIOR TO INSTALLATION OF STATION CABLE.
G23.	PRIOR TO STARTING THE INSTALLATION, THE ASSIGNED INSTALLATION SUPERVISOR OR LEAD TECHNICIAN SHALL PARTICIPATE IN A WALK-THROUGH OF THE PROJECT LOCATION WITH THE ENGINEER, OR THEIR DESIGNATED REPRESENTATIVE, TO REVIEW THE INSTALLATION DOCUMENTATION.
G24.	FOR ALL NURSE CALL DEVICES, REFER TO EQUIPMENT PLANS FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN. COORDINATE WITH NURSE CALL VENDOR.
G25.	LOCATE LOW VOLTAGE BACKBOX WITHIN 6-8 INCHES OF DUPLEX RECEPTACLE WHEN SHOWN ADJACENT.
G26.	ALL OVERHEAD PAGING SPEAKERS NOT IN SPECIFIED PAGING ZONES ARE TO BE DAISY CHAINED BACK TO IDF. ALL ZONE PAGING TO BE HOME-RUNNED BACK TO IDF.

TELECOMMUNICATIONS/LOW VOLTAGE SYSTEMS  
GENERAL INFECTION CONTROL NOTES

- OBTAIN FROM THE OWNER A COPY OF THE INFECTION CONTROL RISK ASSESSMENT (ICRA) PREPARED FOR THIS PROJECT. REVIEW THE REQUIREMENTS IN THE REPORT AND PERFORM ALL WORK IN ACCORDANCE WITH THOSE PROTOCOLS. STRICTLY ADHERE TO THE LIMITS OF THE CONSTRUCTION AREA, AND WHERE PHASING APPLIES, ADHERE TO PHASING PLAN. COORDINATE ANY WORK OUTSIDE THE CONSTRUCTION AREA WITH THE OWNER AND PERFORM IT IN ACCORDANCE WITH THE ICRA REPORT, UNDER THE SUPERVISION OF THE OWNER'S REPRESENTATIVE OR OTHER DESIGNATED ICRA COMMITTEE OFFICER.
- TO THE EXTENT THAT IS REQUIRED BY THE ICRA, ENDEAVOR TO MAINTAIN EXISTING LEVELS OF INDOOR AIR QUALITY IN AREAS SURROUNDING AND ADJACENT TO THE CONSTRUCTION WORK ZONE, AND ELSEWHERE IN THE FACILITY. IT SHOULD BE ANTICIPATED THAT THE ICRA REPORT WILL REQUIRE MEASURES TO THIS EFFECT, INCLUDING THE ASSEMBLY OF THE CONSTRUCTION ZONE BARRIERS.
- PERFORM CONSTRUCTION ACTIVITIES IN AREAS THAT ARE OCCUPIED BY THE HOSPITAL STAFF, THE GENERAL PUBLIC, OR HOSPITAL PATIENTS PER THE REQUIREMENTS OF THE OWNER'S ICRA, WHERE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED, RETURN THE AREA TO "CLEAN" CONDITIONS, AS DEFINED BY THE OWNER'S PROTOCOLS, BEFORE IT IS OCCUPIED BY THE HOSPITAL STAFF, THE GENERAL PUBLIC, OR HOSPITAL PATIENTS.

REVISIONS			
No.	Date	TASK	BY

ISSUE FOR PERMIT  
& PRICING

## HARRISHEALTH SYSTEM

HARRIS HEALTH SYSTEM  
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Houston, TX 77054

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TEXAS FIRM REGISTRATION NUMBER: F-2674  
PROJECT # 1119040



Firm Registration #:

PROJECT TITLE:  
**SPRING BRANCH HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston,  
Tx 77055

SHEET TITLE:  
LEGENDS, INDEX, AND  
NOTES - TELECOM

DATE: 11/04/13 DATE:

SHEET NUMBER:  
**T-000**

DRAWN BY: CAP  
CHECKED BY: JMB  
SCALE: 1/8" = 1'-0"  
JOB NO.: 13150540

A/V BACK BOX & CONDUIT REQUIREMENTS		
SYMBOL	BACK BOX AND PLASER RING SIZE	CONDUIT SIZE
	4- 11/16" x 4- 11/16" x 2-1/4" BACK BOX WITH SINGLE GANG RING	1"
	4- 11/16" x 4- 11/16" x 2-1/4" BACK BOX WITH SINGLE GANG RING	1"
	COORDINATE EXACT BACK BOX AND CONDUIT REQUIREMENTS WITH ELECTRICAL DRAWINGS AND A/V VENDOR PRIOR TO INSTALLATION	2 - 1 1/4"

PAGING SYSTEM BACK BOX & CONDUIT REQUIREMENTS		
SYMBOL	BACK BOX AND PLASER RING SIZE	CONDUIT SIZE
	PAGING VENDOR PROVIDED SPEAKER ASSEMBLY	3/4"

NOTE:

NURSE CALL BACK BOX & CONDUIT REQUIREMENTS		
SYMBOL	BACK BOX AND PLASER RING SIZE	CONDUIT SIZE
	4" x 4" x 2 1/4" BACK BOX WITH SINGLE GANG RING	3/4"
	4 11/16" x 4 11/16" x 2 1/4" BACK BOX WITH SINGLE GANG RING	3/4"
	4 11/16" x 4 11/16" x 2 1/4" BACK BOX WITH SINGLE GANG RING	3/4"
	4" x 4" x 2 1/4" BACK BOX WITH SINGLE GANG RING	3/4"

SECURITY BACK BOX & CONDUIT REQUIREMENTS		
SYMBOL	BACK BOX AND PLASER RING SIZE	CONDUIT SIZE
	4- 11/16" x 4- 11/16" x 2-1/4" BACK BOX WITH SINGLE GANG RING	3/4"
	4- 11/16" x 4- 11/16" x 2-1/4" BACK BOX WITH SINGLE GANG RING	3/4"
	NO BACK BOX REQUIRED (DOOR PREPED BY OTHERS)	3/4"
	4" x 4" x 2-1/4" BACK BOX WITH SINGLE GANG RING	3/4"
	BACK BOX AND/OR MOUNTING REQUIREMENTS AS SPECIFIED BY SECURITY VENDOR	3/4"
	4- 11/16" x 4- 11/16" x 2-1/4" BACK BOX WITH SINGLE GANG RING	3/4"
	BACK BOX AND/OR MOUNTING REQUIREMENTS AS SPECIFIED BY SECURITY VENDOR	3/4"

FACE PLATE, BACK BOX, & CONDUIT REQUIREMENTS											
	<p>INITIAL CAPACITY: 1 CATV CONNECTION;</p> <table border="1"> <tr> <th>QTY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>4 PORT COVER PLATE</td> </tr> </table> <p>1 UL LISTED COAX CABLE PULLED TO EACH COAX OUTLET FROM TELECOM ROOM FOR CATV TERMINATION. TO BE INSTALLED BY CATV CONTRACTOR.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>BACK BOX/CONDUIT REQUIREMENT - 1- 4" x 4" x 2 -1/8" BACK BOX WITH SINGLE GANG PLASTER RING 1- 1" CONDUIT STUB-UP TO ACCESSIBLE CEILING WITH BUSHING TERMINATION</p>	QTY	DESCRIPTION	1	CAT 6 OUTLET	1	4 PORT COVER PLATE				
QTY	DESCRIPTION										
1	CAT 6 OUTLET										
1	4 PORT COVER PLATE										
	<p>CAPACITY: 1 CATV CONNECTION; 1 - DATA CONNECTION; 1 HDMI CONNECTION</p> <table border="1"> <tr> <th>QTY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>R68 COAX OUTLET</td> </tr> <tr> <td>1</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>HDMI OUTLET FOR DVD PLAYER</td> </tr> <tr> <td>1</td> <td>4 PORT COVER PLATE (TO BE INSTALLED BY CATV VENDOR)</td> </tr> </table> <p>1 UL LISTED COAX CABLE PULLED TO EACH COAX OUTLET FROM TELECOM ROOM FOR CATV TERMINATION. TO BE INSTALLED BY CATV CONTRACTOR.</p> <p>1 UL LISTED CATEGORY 6, 24AWG, 4PR CABLE WITH RJ45 JACK, PULLED TO EACH DATA OUTLET FROM TELECOM ROOM FOR DATA TERMINATION. TO BE INSTALLED BY VOICE/DATA CONTRACTOR.</p> <p>1 UL LISTED HDMI CABLE PULLED TO EACH TV OUTLET FROM EACH DVD PLAYER LOCATION. AT TV OUTLET FACEPLATE, TERMINATE ON JACK COMPATIBLE WITH TV. TO BE INSTALLED BY VOICE/DATA CONTRACTOR.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>BACK BOX/CONDUIT REQUIREMENT - 1- 4" x 4" x 2 -1/8" BACK BOX WITH SINGLE GANG PLASTER RING 1- 1" CONDUIT STUB-UP TO ACCESSIBLE CEILING WITH BUSHING TERMINATION</p> <p>* COORDINATE ALL DEVICE MOUNTING HEIGHTS WITH ARCHITECTURAL WALL ELEVATIONS AND POWER MOUNTING HEIGHTS ON ELECTRICAL DRAWINGS.</p>	QTY	DESCRIPTION	1	R68 COAX OUTLET	1	CAT 6 OUTLET	1	HDMI OUTLET FOR DVD PLAYER	1	4 PORT COVER PLATE (TO BE INSTALLED BY CATV VENDOR)
QTY	DESCRIPTION										
1	R68 COAX OUTLET										
1	CAT 6 OUTLET										
1	HDMI OUTLET FOR DVD PLAYER										
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FACE PLATE, BACK BOX, & CONDUIT REQUIREMENTS							
	<p>INITIAL CAPACITY: 1 CONNECTION</p> <table border="1"> <tr> <th>QTY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>DATA SURFACE MOUNT HOUSING</td> </tr> </table> <p>1 UL LISTED CATEGORY 6, 4PR CABLE, PULLED FROM EACH OUTLET TO TELECOM ROOM FOR TERMINATION.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>* - COORDINATE ALL VOICE/DATA LOCATIONS, SPECIAL MOUNTING HEIGHT (SMH) DEVICES WITH ARCHITECTURAL WALL ELEVATIONS AND/OR MOUNTING HEIGHTS OF POWER DEVICES ON ELECTRICAL DRAWINGS. REFER TO "MOUNTING HEIGHT TO CENTER LINE", SHEET T0.1.</p>	QTY	DESCRIPTION	1	CAT 6 OUTLET	1	DATA SURFACE MOUNT HOUSING
QTY	DESCRIPTION						
1	CAT 6 OUTLET						
1	DATA SURFACE MOUNT HOUSING						

FACE PLATE, BACK BOX, & CONDUIT REQUIREMENTS							
	<p>INITIAL CAPACITY: 4 CONNECTIONS MAXIMUM CAPACITY: 4 CONNECTIONS</p> <table border="1"> <tr> <th>QTY</th> <th>DESCRIPTION</th> </tr> <tr> <td>4</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>4 PORT COVER PLATE</td> </tr> </table> <p>1 UL LISTED CATEGORY 6, 4PR CABLE, PULLED FROM EACH OUTLET TO TELECOM ROOM FOR TERMINATION.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>BACK BOX/CONDUIT REQUIREMENT - 1- 4" x 4" x 2 -1/8" BACK BOX WITH SINGLE GANG PLASTER RING 1- 1" CONDUIT STUB-UP TO ACCESSIBLE CEILING WITH BUSHING TERMINATION</p>	QTY	DESCRIPTION	4	CAT 6 OUTLET	1	4 PORT COVER PLATE
QTY	DESCRIPTION						
4	CAT 6 OUTLET						
1	4 PORT COVER PLATE						
	<p>INITIAL CAPACITY: 3 CONNECTIONS MAXIMUM CAPACITY: 4 CONNECTIONS</p> <table border="1"> <tr> <th>QTY</th> <th>DESCRIPTION</th> </tr> <tr> <td>3</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>4 PORT COVER PLATE (BLANKS SHALL BE INSTALLED IN UNUSED OUTLET PORTS)</td> </tr> </table> <p>1 UL LISTED CATEGORY 6, 4PR CABLE, PULLED FROM EACH OUTLET TO TELECOM ROOM FOR TERMINATION.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>BACK BOX/CONDUIT REQUIREMENT - 1- 4" x 4" x 2 -1/8" BACK BOX WITH SINGLE GANG PLASTER RING 1- 1" CONDUIT STUB-UP TO ACCESSIBLE CEILING WITH BUSHING TERMINATION</p>	QTY	DESCRIPTION	3	CAT 6 OUTLET	1	4 PORT COVER PLATE (BLANKS SHALL BE INSTALLED IN UNUSED OUTLET PORTS)
QTY	DESCRIPTION						
3	CAT 6 OUTLET						
1	4 PORT COVER PLATE (BLANKS SHALL BE INSTALLED IN UNUSED OUTLET PORTS)						
	<p>INITIAL CAPACITY: 2 CONNECTIONS MAXIMUM CAPACITY: 4 CONNECTIONS</p> <table border="1"> <tr> <th>QTY</th> <th>DESCRIPTION</th> </tr> <tr> <td>2</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>4 PORT COVER PLATE (BLANKS SHALL BE INSTALLED IN UNUSED OUTLET PORTS)</td> </tr> </table> <p>1 UL LISTED CATEGORY 6, 4PR CABLE, PULLED FROM EACH OUTLET TO TELECOM ROOM FOR TERMINATION.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>BACK BOX/CONDUIT REQUIREMENT - 1- 4" x 4" x 2 -1/8" BACK BOX WITH SINGLE GANG PLASTER RING 1- 1" CONDUIT STUB-UP TO ACCESSIBLE CEILING WITH BUSHING TERMINATION</p>	QTY	DESCRIPTION	2	CAT 6 OUTLET	1	4 PORT COVER PLATE (BLANKS SHALL BE INSTALLED IN UNUSED OUTLET PORTS)
QTY	DESCRIPTION						
2	CAT 6 OUTLET						
1	4 PORT COVER PLATE (BLANKS SHALL BE INSTALLED IN UNUSED OUTLET PORTS)						
	<p>INITIAL CAPACITY: 1 CONNECTION MAXIMUM CAPACITY: 4 CONNECTIONS</p> <table border="1"> <tr> <th>QTY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>4 PORT COVER PLATE (BLANKS SHALL BE INSTALLED IN UNUSED OUTLET PORTS)</td> </tr> </table> <p>1 UL LISTED CATEGORY 6, 4PR CABLE, PULLED FROM EACH OUTLET TO TELECOM ROOM FOR TERMINATION.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>BACK BOX/CONDUIT REQUIREMENT - 1- 4" x 4" x 2 -1/8" BACK BOX WITH SINGLE GANG PLASTER RING 1- 1" CONDUIT STUB-UP TO ACCESSIBLE CEILING WITH BUSHING TERMINATION</p>	QTY	DESCRIPTION	1	CAT 6 OUTLET	1	4 PORT COVER PLATE (BLANKS SHALL BE INSTALLED IN UNUSED OUTLET PORTS)
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	<p>MAXIMUM CAPACITY: 1 CONNECTION</p> <table border="1"> <tr> <th>QTY</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>1 PORT COVER PLATE</td> </tr> </table> <p>1 UL LISTED CATEGORY 6, 4PR CABLE, PULLED FROM EACH OUTLET TO TELECOM ROOM FOR TERMINATION.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>BACK BOX/CONDUIT REQUIREMENT - 1- 4" x 4" x 2 -1/8" BACK BOX WITH SINGLE GANG PLASTER RING 1- 1" CONDUIT STUB-UP TO ACCESSIBLE CEILING WITH BUSHING TERMINATION</p> <p>STANDARD 630A TYPE WALL JACK</p> <p>* - COORDINATE ALL VOICE/DATA LOCATIONS, SPECIAL MOUNTING HEIGHT (SMH) DEVICES WITH ARCHITECTURAL WALL ELEVATIONS AND/OR MOUNTING HEIGHTS OF POWER DEVICES ON ELECTRICAL DRAWINGS.</p>	QTY	DESCRIPTION	1	CAT 6 OUTLET	1	1 PORT COVER PLATE
QTY	DESCRIPTION						
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FACE PLATE, BACK BOX, & CONDUIT REQUIREMENTS					
	<p>QTY DESCRIPTION</p> <table border="1"> <tr> <td>1</td> <td>CAT 6 OUTLET</td> </tr> <tr> <td>1</td> <td>DATA SURFACE MOUNT HOUSING</td> </tr> </table> <p>1 UL LISTED CATEGORY 6, 4PR CABLE, PULLED FROM EACH OUTLET TO TELECOM ROOM FOR TERMINATION.</p> <p>ALL JACKS SHALL BE 568B PIN CONFIGURATION.</p> <p>* - COORDINATE ALL VOICE/DATA LOCATIONS, SPECIAL MOUNTING HEIGHT (SMH) DEVICES WITH ARCHITECTURAL WALL ELEVATIONS AND/OR MOUNTING HEIGHTS OF POWER DEVICES ON ELECTRICAL DRAWINGS.</p>	1	CAT 6 OUTLET	1	DATA SURFACE MOUNT HOUSING
1	CAT 6 OUTLET				
1	DATA SURFACE MOUNT HOUSING				

REVISIONS		
No.	Date	TASK

ISSUE FOR PERMIT & PRICING



HARRIS HEALTH SYSTEM  
2525 Holly Hall Street, Houston, Tx 77054

ARCHITECT & ENGINEERS:



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ARCHITECT:  
Johnston, LLC  
MEP:  
Johnston, LLC  
CIVIL:  
Johnston, LLC



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Houston, TX 77042  
(713) 784-8211  
FAX: (713) 952-8655  
www.ssr-inc.com  
TEXAS FIRM REGISTRATION NUMBER: F-2674  
PROJECT #: 13150540



Firm Registration #:   
PROJECT TITLE:   
SPRING BRANCH   
HEALTH CENTER

PROJECT LOCATION:   
9801 Long Point, Houston,   
Tx 77055

SHEET TITLE:   
FACEPLATE, BACKBOX,   
AND CONDUIT   
REQUIREMENTS -   
TELECOM

DATE: 11/04/13 DATE:

SHEET NUMBER:

T-001

DRAWN BY:   
CAP   
CHECKED BY:   
JMB   
SCALE:   
1/8" = 1'-0"  
JOB NO:   
13150540



**PLAN KEYED NOTES**

- (01) TR ROOM. REFER TO SHEET T401 FOR DETAILS.
- (02) TYPICAL CONSULT/ EXAM ROOM.
- (03) 1-1/2" CONDUIT FOR (1) HDMI CABLE FOR CONNECTION FROM TV TO DVD PLAYER AND (1) RG6 AND (1) CAT6 FOR CONNECTION FROM TV TO RECEIVER.
- (04) PROVIDE (1) CAT 6 CABLE, (1) VGA CABLE, AND (1) 3.5MM CONNECTION BETWEEN OUTLET AND PROJECTOR.
- (05) CAMERA FOR IDENTIFICATION VIEW. MOUNT WHERE NECESSARY FOR REQUIRED VIEW.
- (06) PROVIDE (1) CAT6 CABLE FOR ACCESS CONTROL PANEL. REFER TO T401 FOR LOCATION.

**GENERAL NOTES**

1. CONTRACTOR MUST ALLOW FOR 6" CLEARANCE SURROUNDING WALL PHONE WALL PLATE.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT ELEVATIONS AND LOCATIONS OF ALL TECHNOLOGY DEVICES.
3. CABLE FOR WALL MOUNTED COMPUTERS SHALL BE MOUNTED AT 80" AFF TO CENTER.
4. PROVIDE (1) CAT6 CABLE FOR JOHNSON CONTROL BAS PANEL. REFER TO MECHANICAL PLAN FOR LOCATION.
5. PROVIDE (1) CAT6 CABLE FOR ALARM PANEL PANEL. REFER TO ELECTRICAL PLAN FOR LOCATION.
6. ALL PANIC BUTTONS TO RING BACK TO HARRIS HEALTH DISPATCH CENTER THEN TO HOLLY HALL AS A BACKUP.
7. ALL CABLE TRAY TRAVELING THROUGH FIRE RATED WALLS SHALL UTILIZE EZ PATH 44 SERIES.

REVISIONS			
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2525 Holly Hall Street,  
Houston, Tx 77054

ARCHITECT & ENGINEERS:



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Firm Registration #:  
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**SPRING BRANCH HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston, Tx 77055

SHEET TITLE:  
**LEVEL 1 FLOOR PLAN - TELECOM**

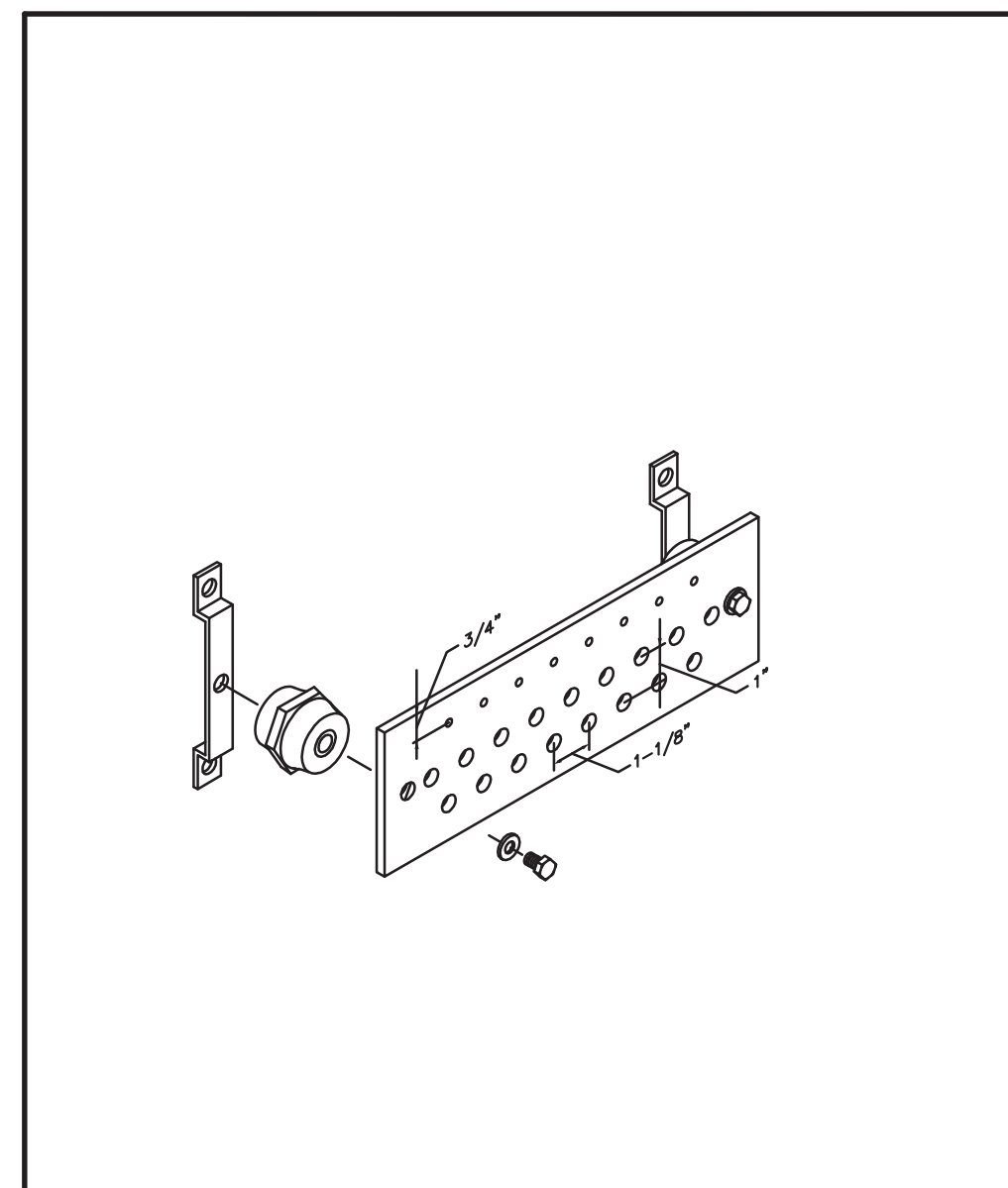
DATE: 11/04/13 DATE:

SHEET NUMBER:  
**T-201**

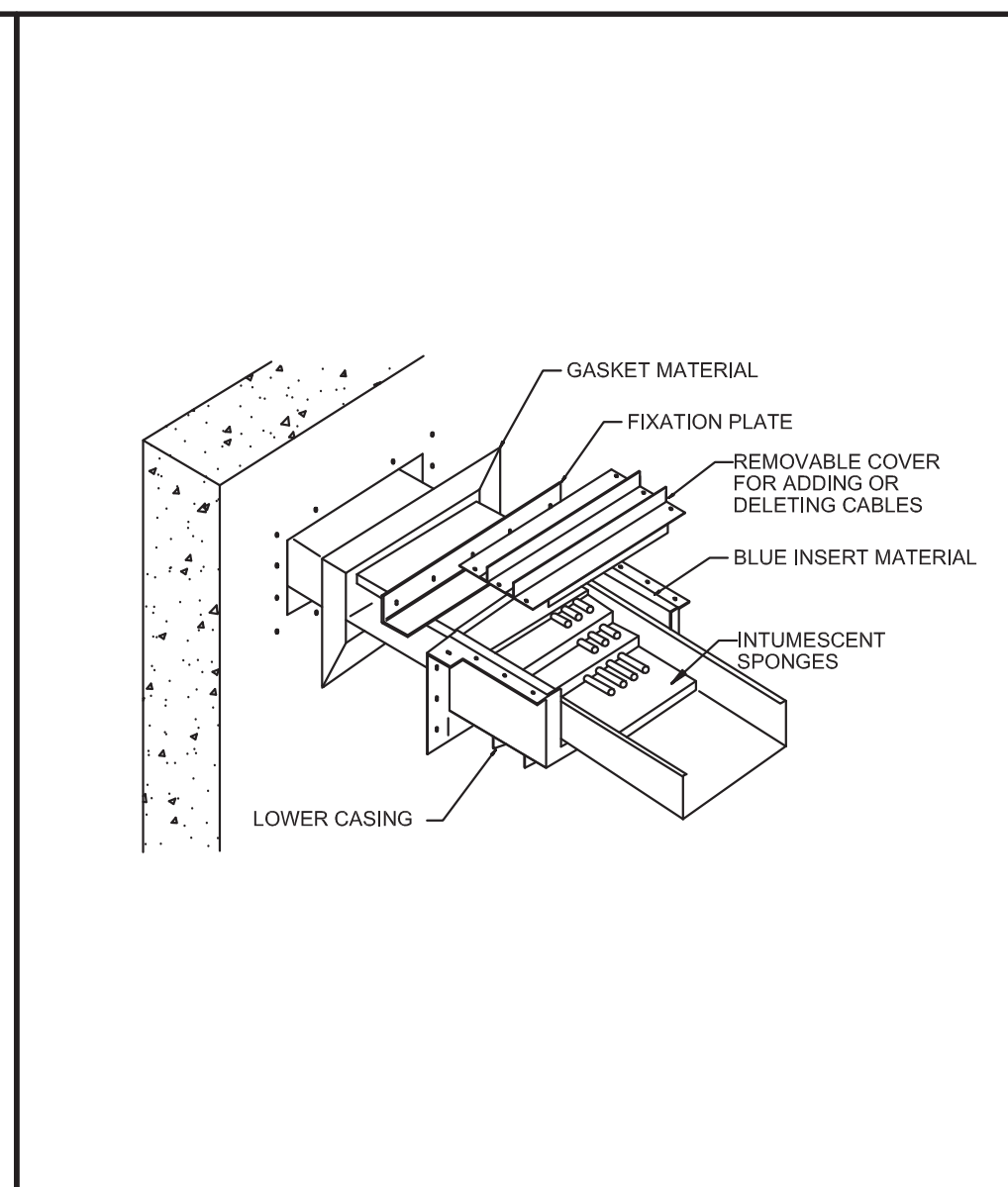
DRAWN BY: CAP SCALE: 1/8" = 1'-0"  
CHECKED BY: JMB JOB NO: 13150540

1 Level 1 Telecom Floor Plan  
1/8" = 1'-0"

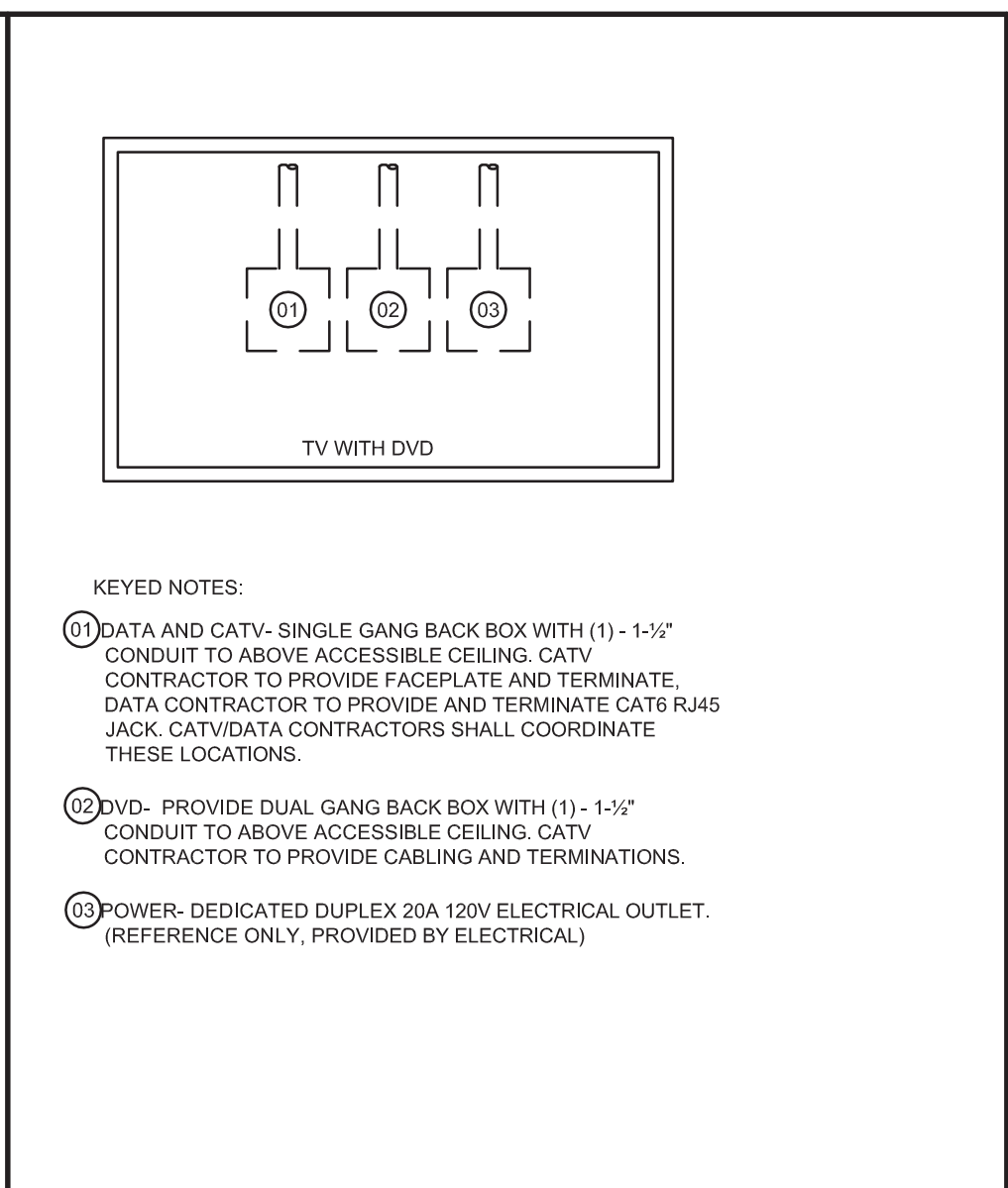




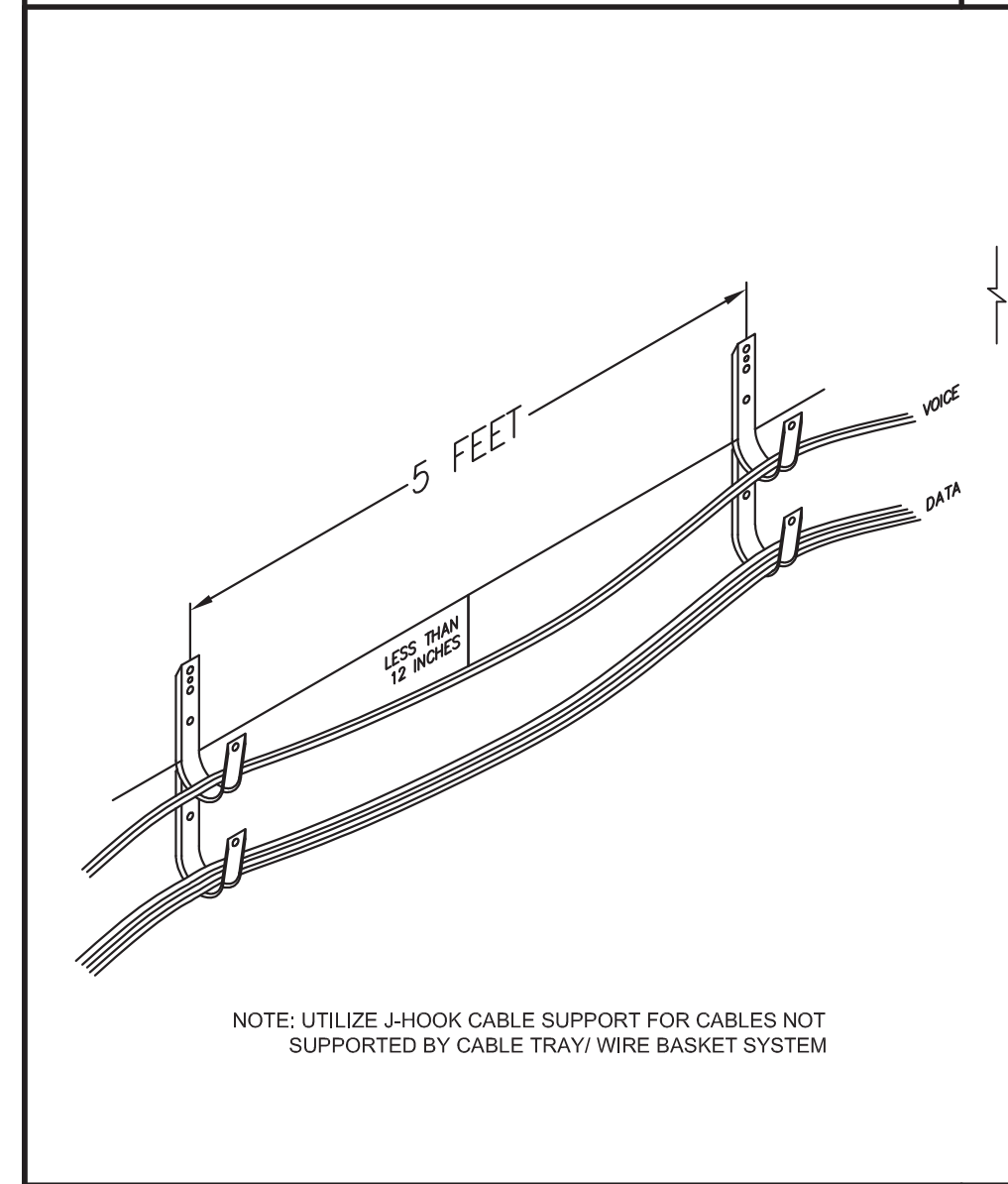
GROUND BAR ASSEMBLY - TYPICAL 06



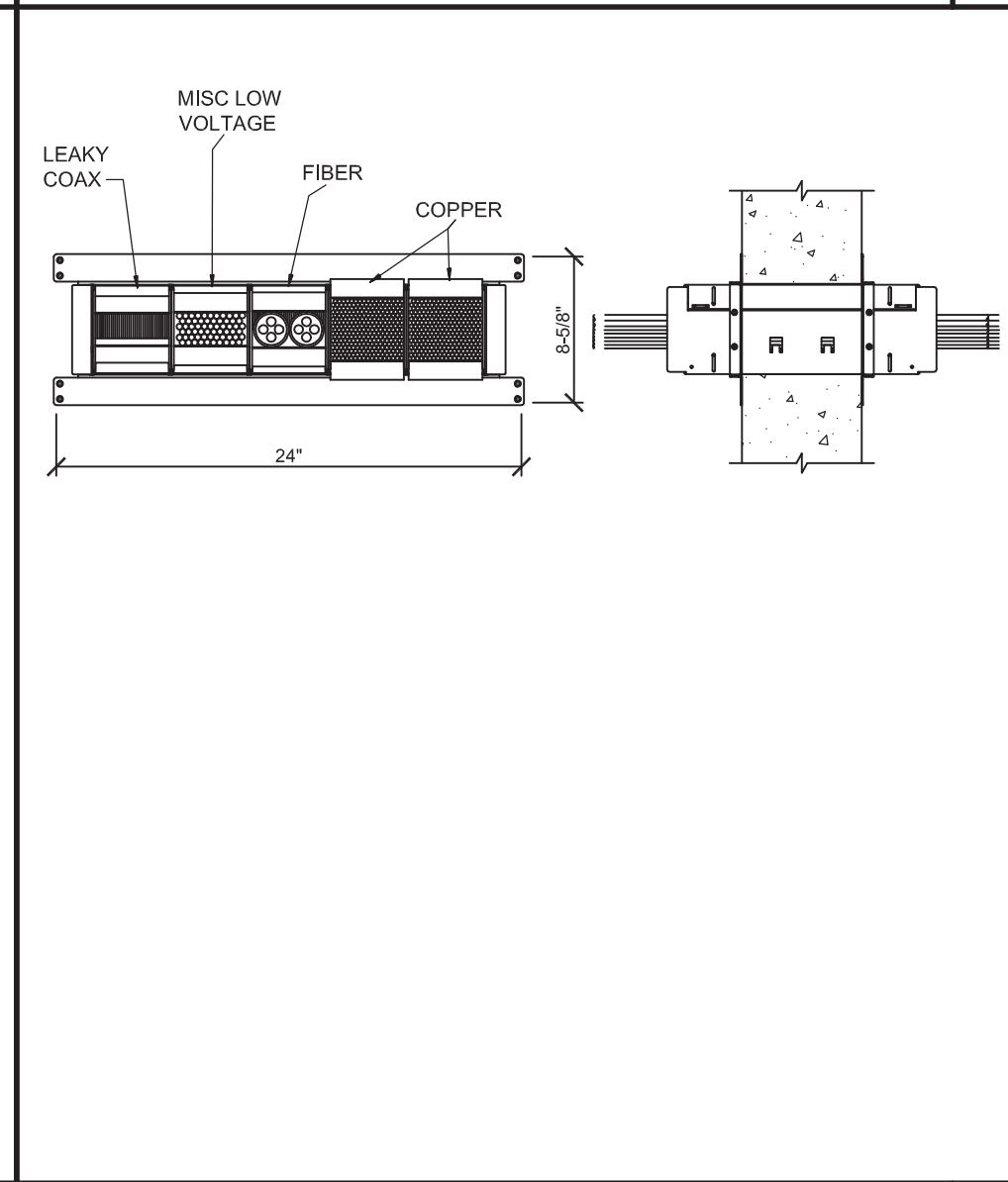
CABLE FIRESTOP WALL PENETRATION 05



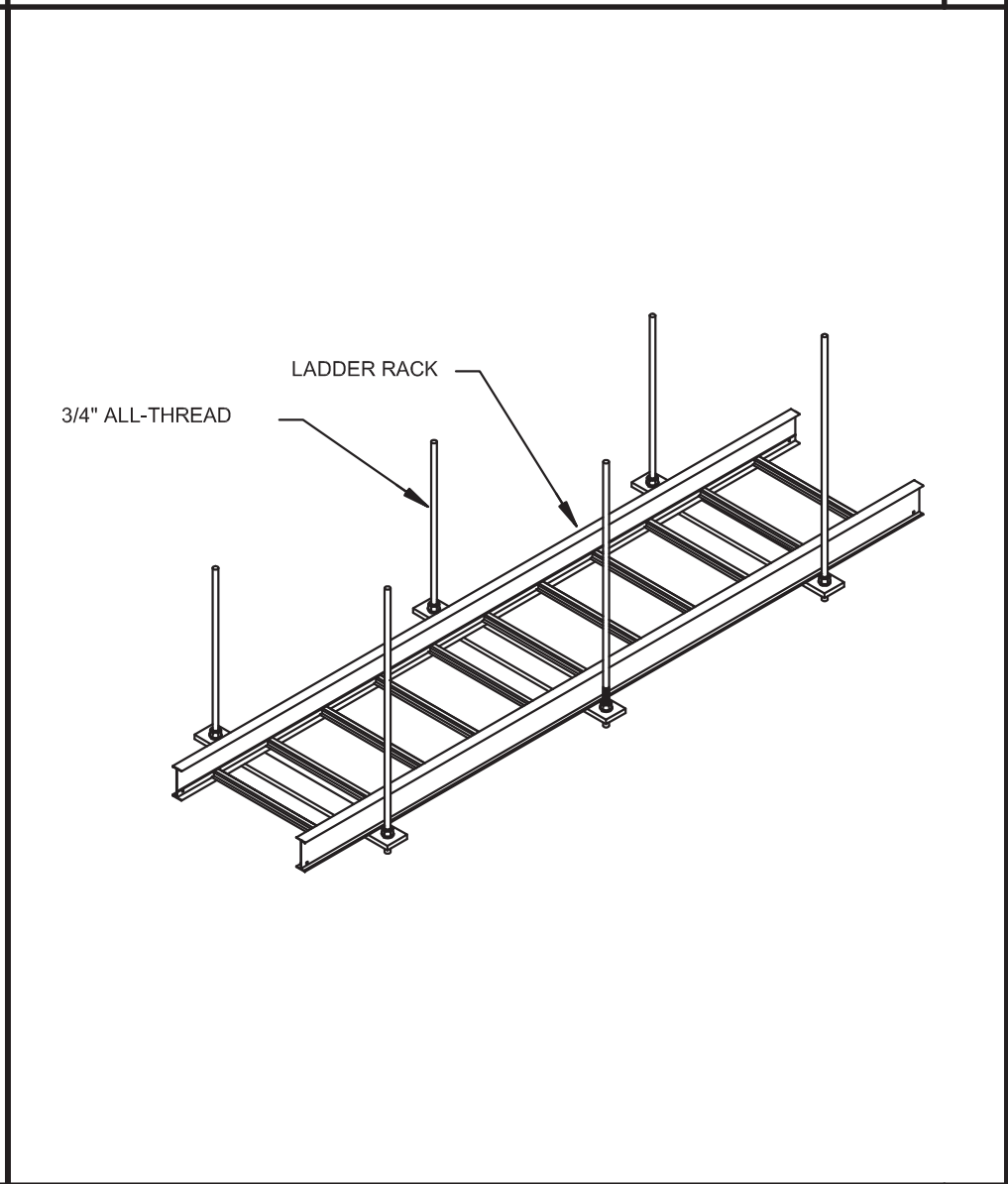
TV DETAIL 04



J-HOOK CABLE SUPPORT DETAIL 03



EZ PATH HORIZONTAL PENETRATION 02



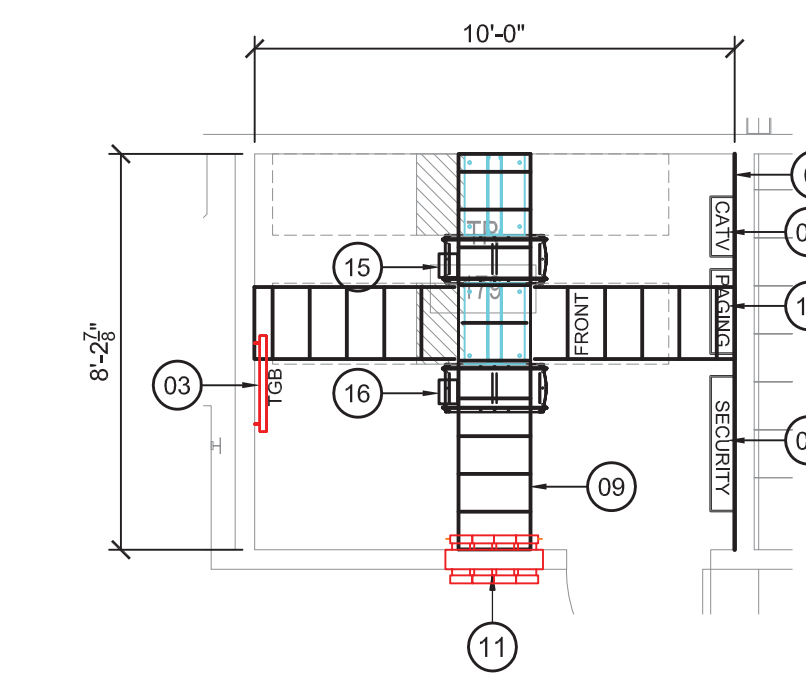
SUSPENDED LADDER RACK WITH TRAPEZE SUPPORT 01

PLAN KEYED NOTES

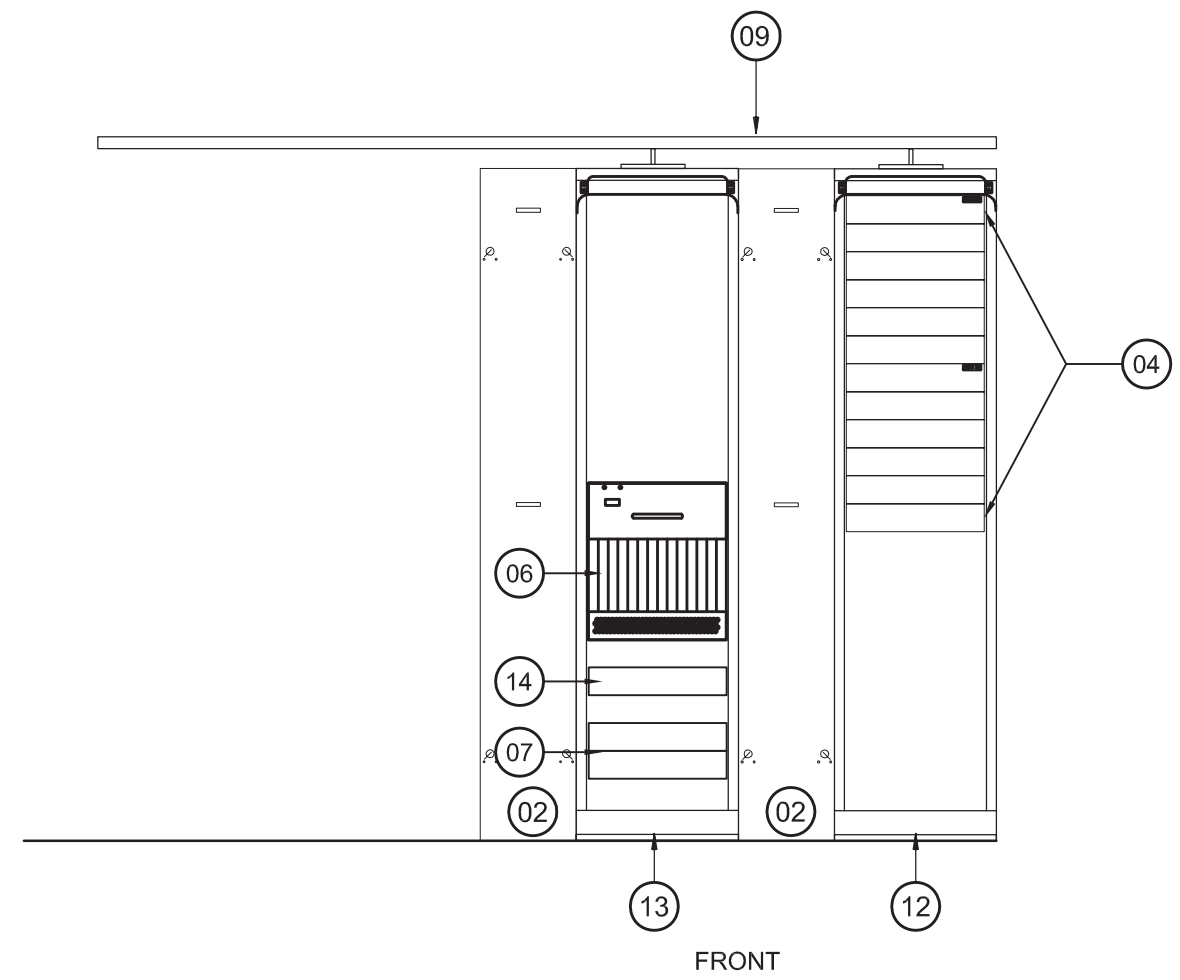
- (01) 8' X 4' X 3/4" THICK, FIRE RETARDANT PLYWOOD, WITH (2) COATS OF BRIGHT WHITE FIRE RETARDANT PAINT. (1) FIRE RATED STAMP MUST REMAIN VISIBLE AT ALL TIMES.
- (02) 12" VERTICAL WIRE MANAGER.
- (03) SOLID COPPER TELECOM GROUNDING BUS BAR.
- (04) VISIPATCH 360 COPPER PATCH PANEL SYSTEM (TYPICAL).
- (05) ACCESS CONTROL PANEL.
- (06) CISCO SWITCH (OFO)
- (07) UPS
- (08) CATV/MATV SYSTEM IDF EQUIPMENT.
- (09) 18" WIDE LADDER RACK MOUNTED AT 90° AFF. (TYPICAL)
- (10) PAGING EQUIPMENT.
- (11) EZ PATH 44 SERIES.
- (12) IT CABLING TERMINATION RACK.
- (13) NETWORK EQUIPMENT RACK.
- (14) SECURITY NVR.
- (15) (1) 110V/20A DUPLEX OUTLET AND (2) L6-30R OUTLETS MOUNTED TO SIDE OF LADDER RACK. FOR REFERENCE ONLY. REFER TO ELECTRICAL.
- (16) (2) L5-30R OUTLETS MOUNTED TO SIDE OF LADDER RACK. FOR REFERENCE ONLY. REFER TO ELECTRICAL.

GENERAL NOTES

1. PROVIDE RACK ISOLATION KIT FOR ALL 19" RACKS.
2. PROVIDE INSULATOR BAR KIT FOR ALL LADDER RACK.
3. PROVIDE AND INSTALL CABLE RUNWAY ELEVATION KIT FOR LADDER RACK ABOVE EACH RACK.
4. PROVIDE AND INSTALL WATERFALL CABLE SUPPORTS FOR CABLE TRANSITION FROM LADDER RACK TO EACH EQUIPMENT RACK.



TR ROOM 179 ENLARGED PLAN 1/4" = 1'-0"



TELECOM ROOM RACK ELEVATION 1/4" = 1'-0"

REVISIONS			
No.	Date	TASK	BY

ISSUE FOR PERMIT & PRICING

HARRIS HEALTH SYSTEM

HARRIS HEALTH SYSTEM  
2525 Holly Hall Street  
Houston, Tx 77054

ARCHITECT & ENGINEERS:

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Engineers - Architects - Planners - Managers

ARCHITECT: Johnston, LLC  
MEP: Johnston, LLC  
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Firm Registration #: \_\_\_\_\_  
PROJECT TITLE:  
**SPRING BRANCH HEALTH CENTER**

PROJECT LOCATION:  
9801 Long Point, Houston, Tx 77055

SHEET TITLE:  
**ENLARGED PLANS AND ELEVATIONS - TELECOM**

DATE: 11/04/13 DATE: \_\_\_\_\_

SHEET NUMBER:  
**T-401**

DRAWN BY: CAP SCALE: 1/8" = 1'-0"  
CHECKED BY: JMB JOB NO: 13150540