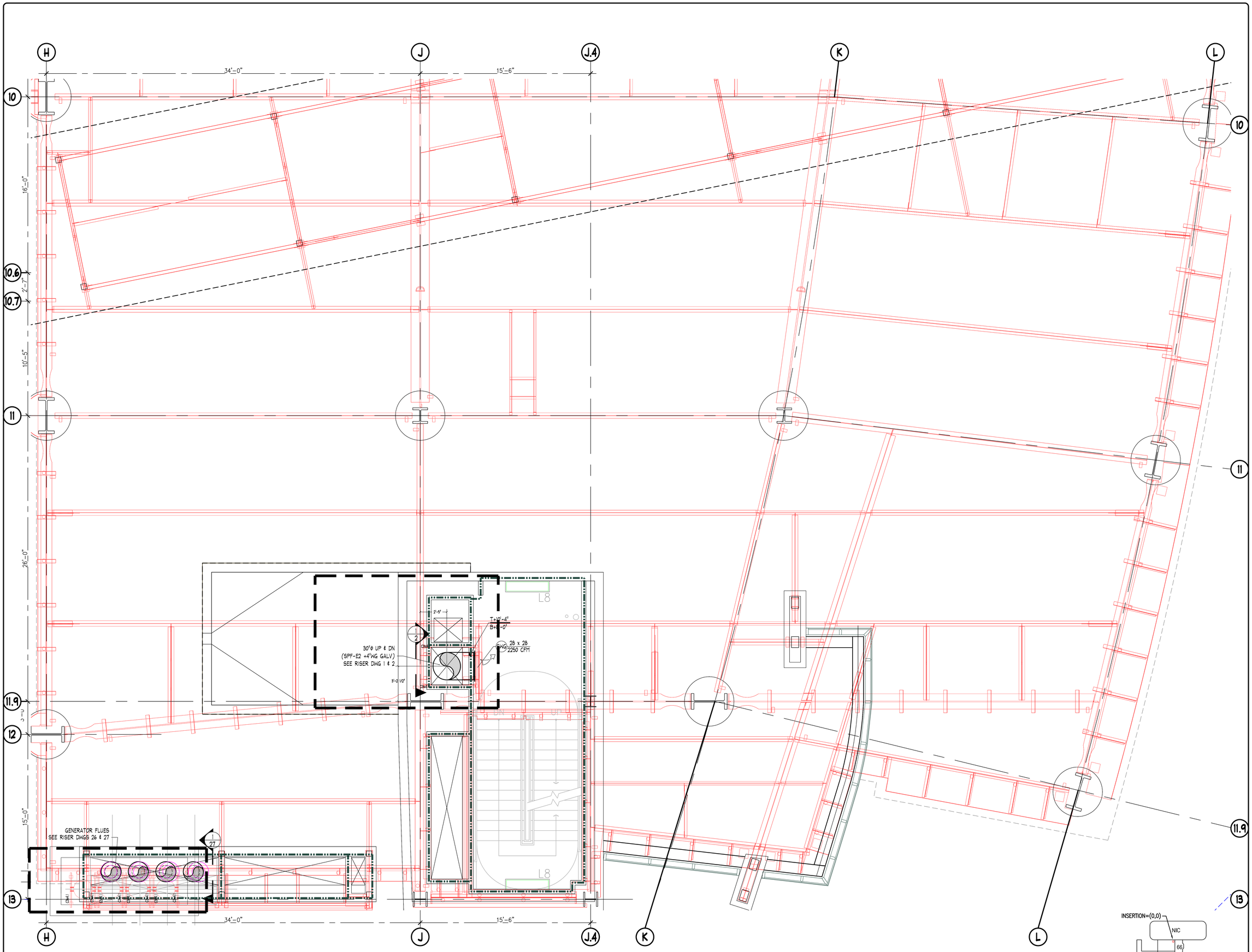


LEVEL TWO - SOUTH EAST

FINISHED FLOOR ELEVATION=35'-0" (U.N.O.)
TOP OF STEEL ELEVATION +14'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

NOTES

1. ELEVATION SHOWN ON THIS DRAWING ARE TO THE DUCT ALIGNMENTS. ADJUSTMENTS MADE FOR TRANSVERSE CONNECTORS, ELBOWS, AND OTHER FITTINGS. FIELD RESOLUTION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S		S & D	
B, BOTT	BOTTOM	SI	SPIN-IN FITTING	S & P	SPIN-IN FITTING
C, CL	CENTERLINE	SLV	SLEEVE	SLV	SLEEVE
D, DN	DUCTWORK	SP	STATIC PRESSURE	SP	STATIC PRESSURE
Dm	DUCTMATE CONNECTOR	T	TOP	T	TOP
F, FTM	FLANGE	TDC	TRANSVERSE DUCT CONNECTOR	TDC	TRANSVERSE DUCT CONNECTOR
FD	FIRE DAMPER	TH	THROAT	TH	THROAT
FI	FLEXIBLE DUCT	TRANS	TRANSITION FITTING	TRANS	TRANSITION FITTING
FO	FLANGE OUT	TV	TURNING VANES	TV	TURNING VANES
FOB	FLAT ON BOTTOM	U	UP	U	UP
FOS	FLAT ON SIDE	V	VERTICAL	V	VERTICAL
FOT	FLAT ON TOP	VD	VOLUME DAMPER	VD	VOLUME DAMPER
H	HORIZONTAL	W	WITH	W	WITH
W	WALL	WG	WATER GAUGE	WG	WATER GAUGE
WD	WORK POINT	WP	WALL PENETRATION	WP	WALL PENETRATION
R	RADIUS	+O	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR	+O	FEMALE INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER W/L
	MANUAL VOLUME DAMPER WITH QUAL OR QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT REGULATOR
M	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PANEL W/L
72 / 24	DUCTWORK PIECE NO. INDICATOR
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE

REVISIONS

NO.	DESCRIPTION	DATE
2	AS-BUILT RECORD DRAWING	5-7-12

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E-MAIL TO DETAILING DEPARTMENT:
ttaylor@harris-hart.com

JOB NO: 9507 PAY ITEM: 57

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LEVEL TWO AREA A
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.2A STRUCT: S2.3A MECH: M3.2A

BY: R. FRESTON
DATE: 1-27-10
SCALE: 3/8"=1'-0"

DRAWING NO.
57 OF 115

LEVEL TWO - SOUTH WEST

FINISHED FLOOR ELEVATION=35'-0" (U.N.O.)
TOP OF STEEL ELEVATION +14'-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE APPROXIMATE. FIELD ADJUSTMENTS SHALL BE MADE FOR TRANSVERSE CONNECTORS, EXPANSION JOINTS AND THERMAL INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & P	SUPPLY & PRESSURE
B, BOTT	BOTTOM	SL	SLOPE
℄, ON	CENTERLINE	SP	STATIC PRESSURE
Dw, DN	DOWN	T	TEMPERATURE DUCT CONNECTOR
E, ECT	ELECTRIC CONNECTOR	TDC	THROAT
F, FEM	FEMALE	TH	TRANSITION FITTING
FD	FIRE DAMPER	TRANS	TURNING VANES
FO	FLANGE OUT	TV	UP
FD	FLAT ON BOTTOM	U	VOLTAGE DAMPER
FOB	FLAT ON SIDE	VD	WITH
FOS	FLAT ON TOP	W	WATER GAUGE
FOT	HORIZONTAL	WG	WIRE GUIDED
H	MALE	WP	FEMALE INDICATOR
M	MOTORIZED DAMPER	↑D	
R	RADIUS	↓D	

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER
	MANUAL VOLUME DAMPER WITH DIAL OR QUADRANT TYPE REGULATOR
	MOTORIZED DAMPER WITH CONCEALED REGULATOR
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK ACCESS NO.
	INDICATOR
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
56A	4"Ø KG SUPPLY AIR DUCTWORK (DISTRIBUTION OF BOXES PG3-1)	5-29-09
56B	3" L 2"Ø KG EXHAUST & RETURN AIR DUCTWORK	5-29-09
56C	12"Ø KG SUPPLY AIR DUCTWORK (DISTRIBUTION OF BOXES PG3-4)	5-29-09
56F	ENCASED SPIRAL 6" DUCTWORK	5-29-09
56AC	ARCHUS PDS-1-5-6-7	5-29-09
56D	3"Ø KG SUPPLY AIR DUCTWORK(CURVE)	7-3-09
56E	3"Ø KG SUPPLY AIR DUCTWORK(CURVE)	7-3-09
56G	3"Ø KG SUPPLY AIR DUCTWORK(CURVE)	7-3-09
56H	4"Ø KG GALV PDS3-4, 4"Ø KG GALV PDS3-5, 4"Ø KG GALV PDS3-6	7-3-09
56I	4"Ø KG GALV PDS3-4, 4"Ø KG GALV PDS3-5, 4"Ø KG GALV PDS3-6	7-3-09
56J	4"Ø KG GALV PDS3-4, 4"Ø KG GALV PDS3-5, 4"Ø KG GALV PDS3-6	7-3-09
56K	4"Ø KG GALV PDS3-4, 4"Ø KG GALV PDS3-5, 4"Ø KG GALV PDS3-6	7-3-09
56AC2	ARCHUS PDS-1-4, 4"Ø KG GALV PDS3-5, 4"Ø KG GALV PDS3-6	8-25-11

REVISIONS

NO.	DESCRIPTION	DATE
9	AS-BUILT RECORD DRAWING	5-7-12

HARRIS & HART
SHEET METAL CONTRACTORS & FABRICATORS

HARRIS & HART INC.
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WEBSITE: WWW.HARRIS-HART.COM
E-MAIL TO DETAILING DEPARTMENT:
ttaylor@harris-hart.com

JOB NO: 9507 PAY ITEM: 58

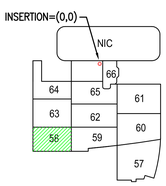
PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LEVEL TWO AREA D
HVAC SYSTEM LAYOUT

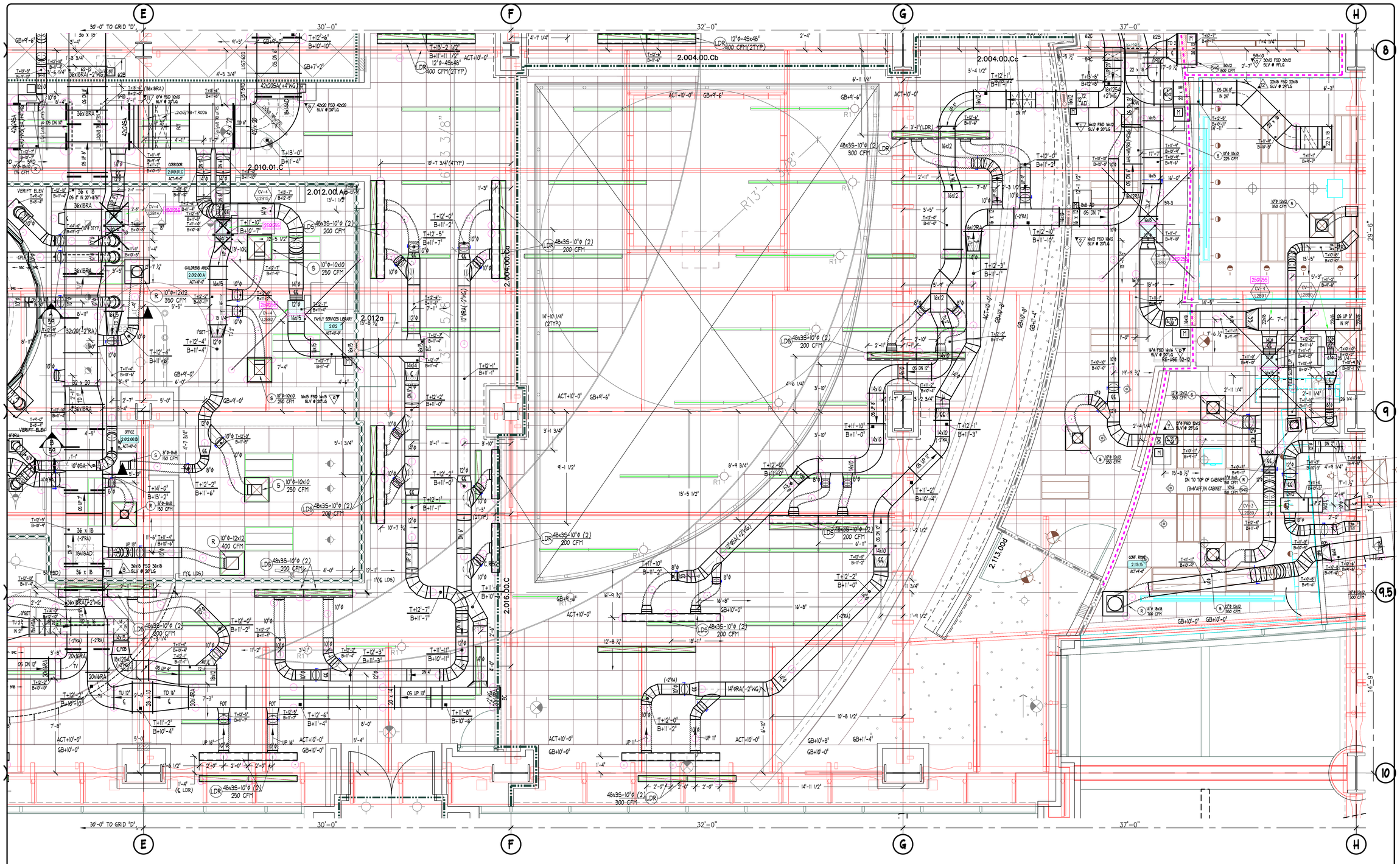
REFERENCE DRAWINGS
ARCH:A3.20 STRUCT: S2.3B MECH:M3.20

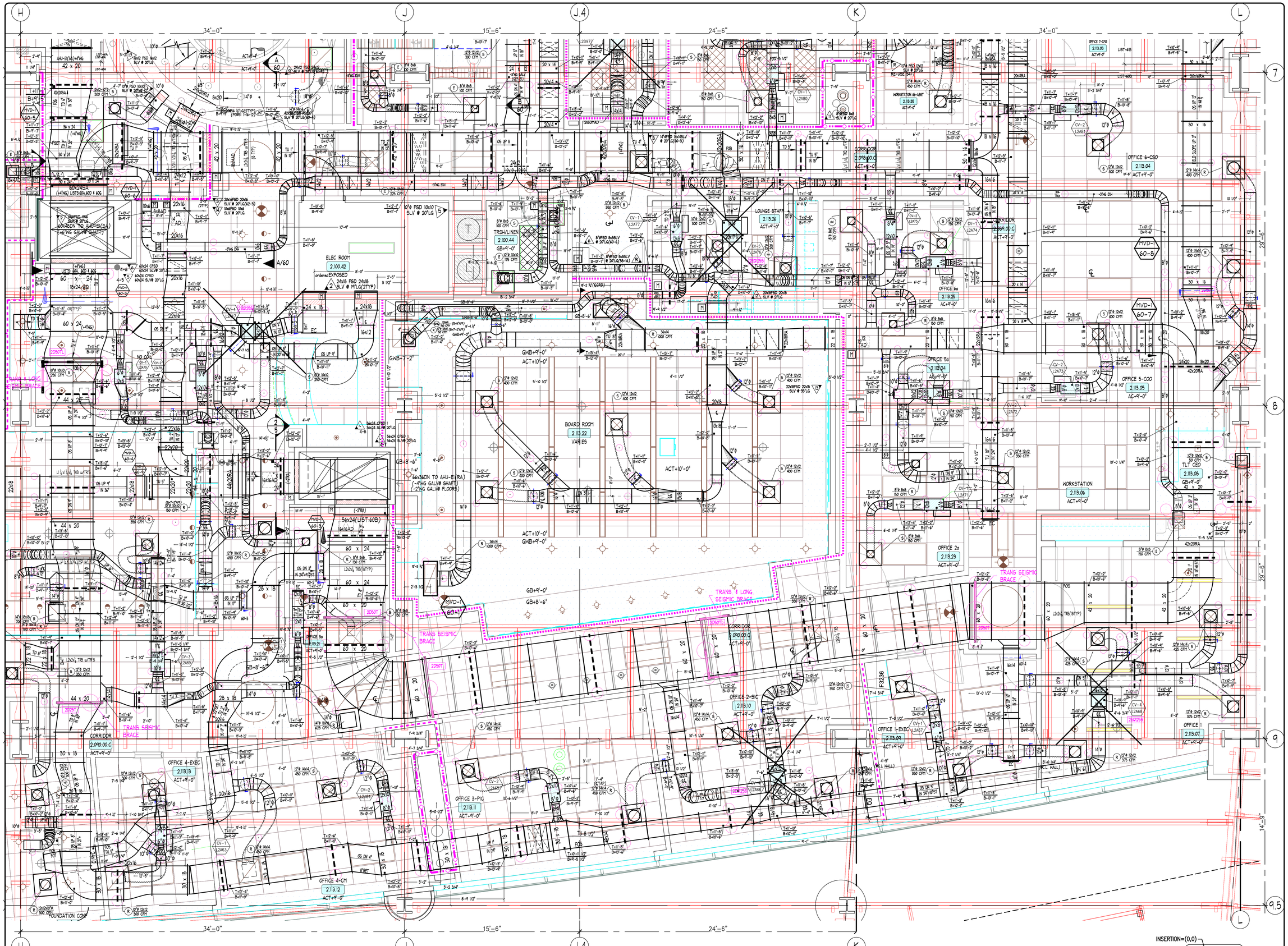
BY: BP DRAWING NO.
DATE: 1-27-10 58 OF 115
SCALE: 3/8"=1'-0"

INSERTION=(0,0)



KEY PLAN


E
F
G
H
8
9
9.5
10
30'-0" TO GRID "D"
30'-0"
32'-0"
37'-0"
2.004.00.Cb
2.004.00.Cc
2.004.00.Cd
2.010.01.C
2.012.00.A
2.012a
2.016.00.C
2.113.00d
R13'-1 3/8"
R11'-6 3/8"
R11'
2.012.00.A
2.012.00.B
2.012.00.C
2.012.00.D
GALLERIA AREA
2.012.00.A
FAMILY SERVICES LIBRARY
2.012
OFFICE
2.012.00.B
CORRIDOR
2.010.01.C
CONF ROOM
2.113.15
CORRIDOR
2.004.00.C
VERIFY ELEV
LDR 48x39-10'ø (2) 200 CFM
LDS 48x39-10'ø (2) 200 CFM
LDR 48x39-10'ø (2) 300 CFM
LDR 48x39-10'ø (2) 250 CFM
LDR 12'ø-45x48 400 CFM(2TYP)
R 10'ø-12x12 350 CFM
R 10'ø-12x12 400 CFM
S 10'ø-10x10 250 CFM
S 8'ø-8x8 150 CFM
S 10'ø-10x10 200 CFM
S 10'ø 10x10 225 CFM
S 10'ø 10x10 350 CFM
S 10'ø 12x12 350 CFM
S 12'ø 12x12 350 CFM
S 10'ø 12x12 300 CFM
S 10'ø 10x10 250 CFM
S 10'ø 10x10 300 CFM
S 10'ø 8x8 150 CFM
S 10'ø 8x8 150 CFM
S 10'ø 8x8 150



NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO BOTTOM OF DUCT. ALLOWANCE SHALL BE MADE FOR TRANSVERSE CONNECTORS, REINFORCING AND EXTERNAL INSULATION WHEN COORDINATING CLEARANCES.

ABBREVIATIONS

ACCESS DOOR, ACCESS PLATE	AD	1 & 2 WAY, CONNECTOR	1 & 2
BOTTOM	B, BOTT	SPIN-in FITTING	SPIN-in
CENTERLINE	℄	SLEEVE	SLV
DOWN	D, DN	STATIC PRESSURE	SP
EXPANSION JOINT, EXPANSION CONNECTOR	EJ	TEE	T
FEMALE	F, FEM	TRANSVERSE DUCT CONNECTOR	TDC
FIRE DAMPER	FD	THREAD	TH
FLANGE	FL	TRANSITION FITTING	TF
FLANGE OUT	FO	TURNING VANES	TVNS
FLAT ON BOTTOM	FOB	UP	U
FLAT ON SIDE	FOS	VERTICAL	V
FLEXIBLE DUCT	FD	VOLUME DAMPER	VD
HORIZONTAL	H	WITH	W
INCH	IN	WATER GAUGE	WG
MALE	M	FINAL INDICATOR	↑ or ↓
RAISE	RISE		
REDUCER	R		
TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR	T/B		

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION
	FIRE/SMOKE DAMPER W/O SMOKE SEAL
	FIRE/SMOKE DAMPER WITH SMOKE SEAL OR QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH CEILING MOUNTED CONCEALED REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK ACCESS DOOR SIZE
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

REVISIONS

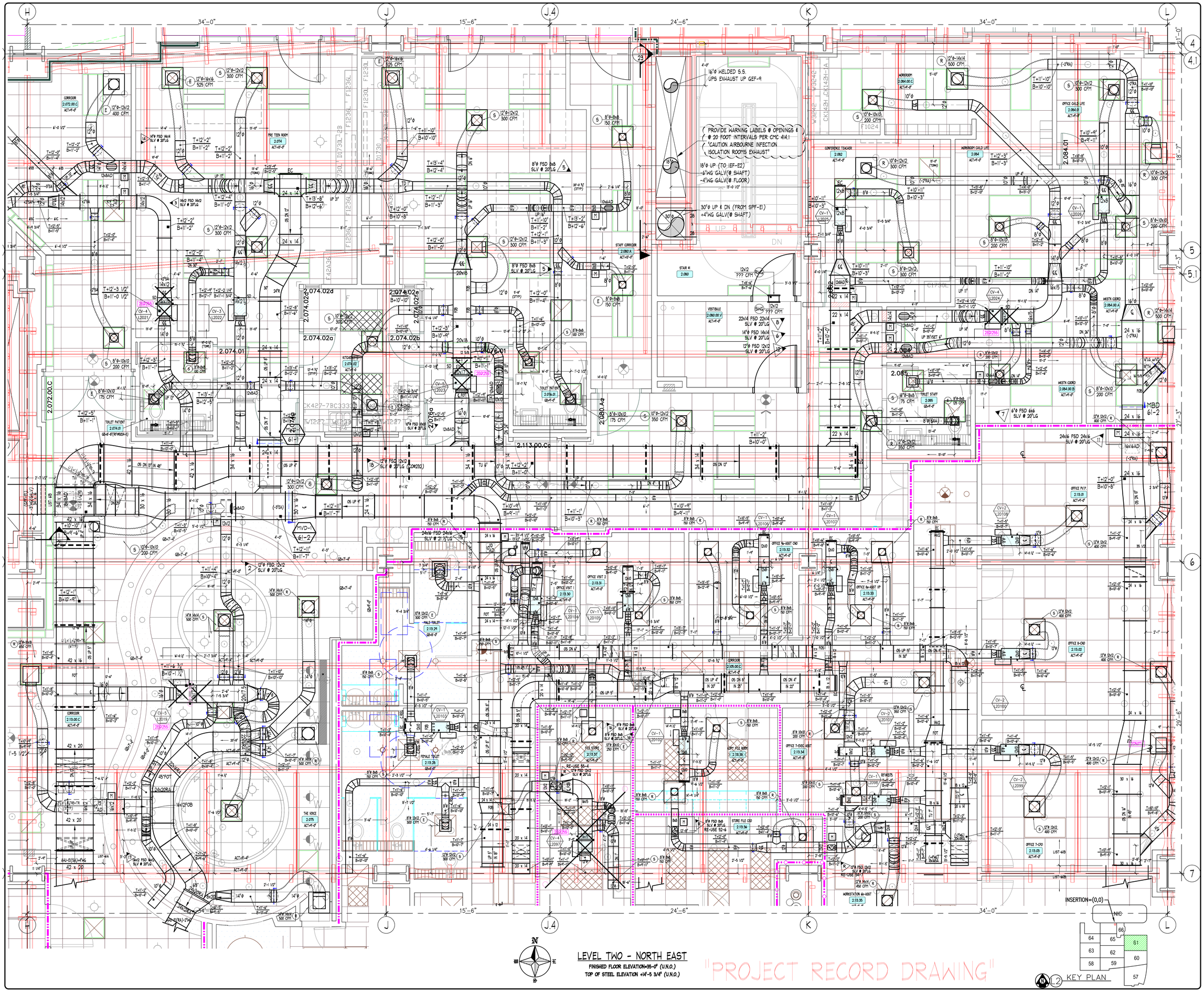
DATE	NO.	DESCRIPTION
5-7-12	9	AS-BUILT RECORD DRAWING

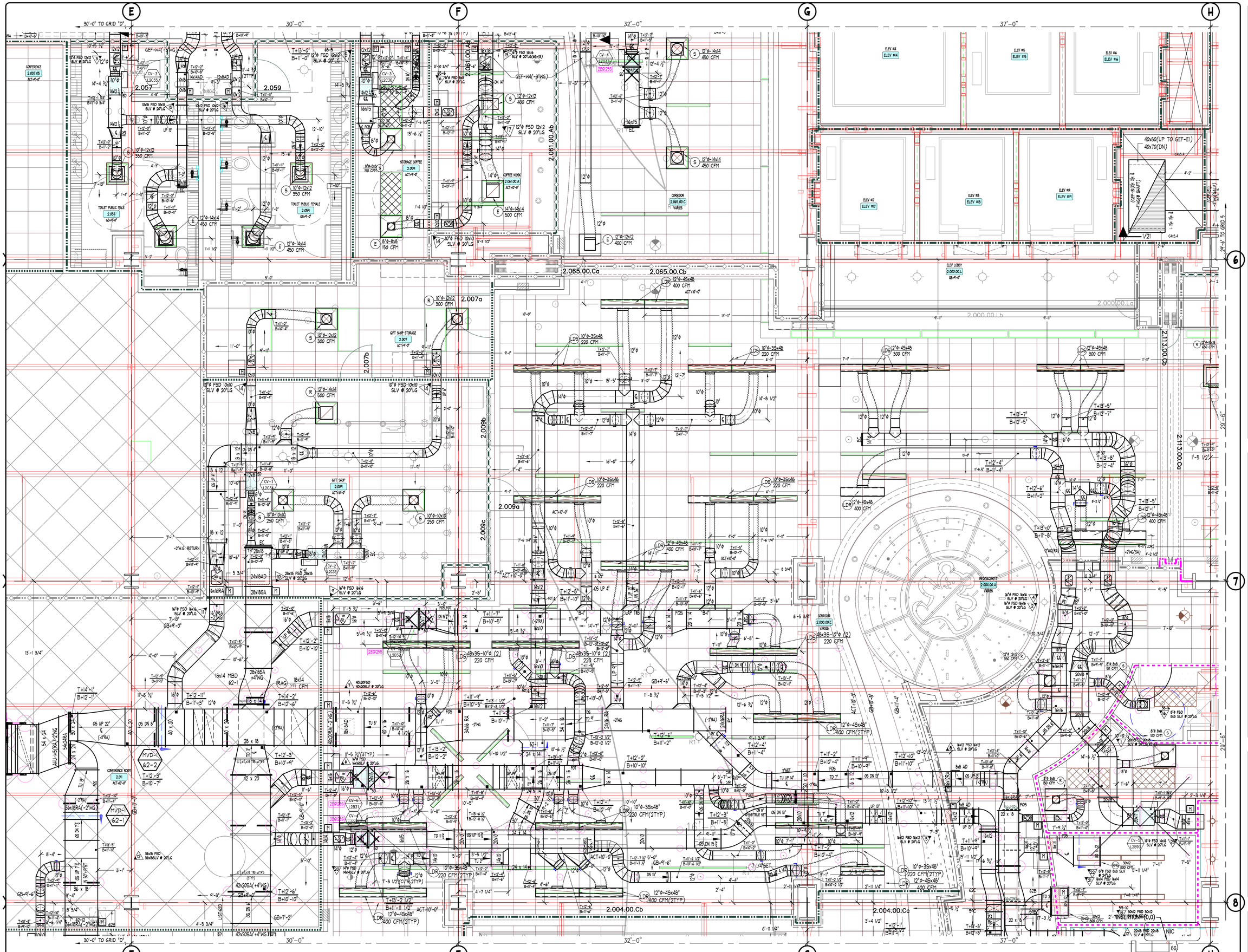
MATERIAL LISTS

DATE	NO.	DESCRIPTION
4-24-13	66A	4"WG SUPPLY AIR DUCTWORK UPSTREAM OF BOXES PCE1-10
4-24-13	66B	3" X 2" WG EXHAUST & RETURN AIR DUCTWORK PCE1-10
4-24-13	66C	2"WG SUPPLY AIR DUCTWORK DWSTREAM OF BOXES PCE1-17
4-24-13	66P	PURCHASED SPIRAL & DUCTWORK PCE1P-2P
5-24-13	66AC	AIRCARE POS 1-4 & 5-20
7-29-13	66D	4"WG SUPPLY AIR DUCTWORK UPSTREAM OF BOXES PCS1-13
8-1-13	66E	2"WG SUPPLY AIR DUCTWORK DWSTREAM OF BOXES PCS1-09
7-29-13	66F	4"WG SUPPLY AIR DUCTWORK UPSTREAM OF BOXES PCS1-09
8-1-13	66G	2"WG SUPPLY AIR DUCTWORK DWSTREAM OF BOXES PCS1-09
10-24-13	66H	4"WG GALV PCS1-21,22,24&25-3R, 3"-5"WG AT 66H
10-24-13	66P+	4"WG GALV PCS1-21,22,24&25-3R, 3"-5"WG AT 66P+

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JOB NO:	9507 PAY ITEM: 60
PROJECT:	CHILDRENS HOSPITAL ORANGE, CA
TITLE:	LEVEL TWO AREA F HVAC SYSTEM LAYOUT
REFERENCE DRAWINGS	
ARCH:A3.2F	STRUCT: S2.3A MECH:M3.2F
BY: BP	DRAWING NO.
DATE: 1-27-10	60 OF 115
SCALE: 3/8"=1'-0"	


H
J
J.4
K
L
4
4.1
5
5.1
6
7
34'-0"
15'-6"
24'-6"
34'-0"
2.074.01
2.074.02a
2.074.02b
2.074.02c
2.074.02d
2.074.02e
2.072.00.C
2.113.00.Cc
2.080.Aa
2.085
2.084.01
2.085.01
2.085.02
2.085.03
2.085.04
2.085.05
2.085.06
2.085.07
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2.085.09
2.085.10
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2.085.38
2.085.39
2.085.40


E
F
G
H
6
7
8
30'-0" TO GRID 'D'
30'-0"
32'-0"
37'-0"
29'-6" TO GRID 5
2.057
2.059
2.061.00.Aa
2.061.00.Ab
2.065.00.Ca
2.065.00.Cb
2.007a
2.007b
2.009a
2.009b
2.009c
2.000.00.La
2.000.00.Lb
2.113.00.Cb
2.113.00.Ca
2.004.00.Cb
2.004.00.Cc
ELEV #4
ELEV #5
ELEV #6
ELEV #7
ELEV #8
ELEV #9
ELEV LOBBY
2.000.00.L
CONFERENCE
2.057.05
TOILET PUBLIC MALE
2.057
TOILET PUBLIC FEMALE
2.059
STORAGE COFFEE
2.059
COFFEE KIOSK
2.060.00.A
CORRIDOR
2.065.00.C
GIFT SHOP STORAGE
2.007
GIFT SHOP
2.009
CONFERENCE ROOM
2.011
CORRIDOR
2.000.00.C
SECURITY
2.004.00.A
40x80(UP TO GEF-E)
40x70(DN)
(GEF-S UP 24"x6"
24"x6"@ SHAFT)
AHU-H5(RA)-2"WG
AHU-H6(RA)-2"WG
MVD-1
62-2
MVD-1
62-1
42x20SA(+4"WG)
42x20RA
54x24SA
54x24RA
GEF-W4(-3"WG)
GEF-E(-3"WG)
GEF-S(-3"WG)
EF-W1(-2"WG)
EF-W2(-2"WG)
EF-W3(-2"WG)
EF-W4(-2"WG)
EF-W5(-2"WG)
EF-W6(-2"WG)
EF-W7(-2"WG)
EF-W8(-2"WG)
EF-W9(-2"WG)
EF-W10(-2"WG)
EF-W11(-2"WG)
EF-W12(-2"WG)
EF-W13(-2"WG)
EF-W14(-2"WG)
EF-W15(-2"WG)
EF-W16(-2"WG)
EF-W17(-2"WG)
EF-W18(-2"WG)
EF-W19(-2"WG)
EF-W20(-2"WG)
EF-W21(-2"WG)
EF-W22(-2"WG)
EF-W23(-2"WG)
EF-W24(-2"WG)
EF-W25(-2"WG)
EF-W26(-2"WG)
EF-W27(-2"WG)
EF-W28(-2"WG)
EF-W29(-2"WG)
EF-W30(-2"WG)
EF-W31(-2"WG)
EF-W32(-2"WG)
EF-W33(-2"WG)
EF-W34(-2"WG)
EF-W35(-2"WG)
EF-W36(-2"WG)
EF-W37(-2"WG)
EF-W38(-2"WG)
EF-W39(-2"WG)
EF-W40(-2"WG)

LEVEL TWO - NORTH WEST

FINISHED FLOOR ELEVATION=95'-0" (U.N.O.)
TOP OF STEEL ELEVATION +14"-5 3/4" (U.N.O.)

"PROJECT RECORD DRAWING"

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE DUCT BODY. ALLOWANCES MUST BE MADE FOR DUCT LINING, FLANGES, REINFORCING AND EXTERIOR INSULATION WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

ACCESS DOOR, ACCESS PLATE	AD, AP
BOTTOM	BL, BOTT
CEILING LINE	CL
DOWN	D, DN
DUCTMATE CONNECTOR	DM
FLAT OVAL	FO
FIRE DAMPER	FD
FLANGE IN	FI
FLANGE OUT	FO
FLAT ON BOTTOM	FOB
FLAT ON SIDE	FOS
FLAT ON TOP	FOT
HORIZONTAL	H
INCHES	IN
OFFSET	OFF
RADIUS	R
S & R DRIVE CONNECTOR	S & R
SPIN-IN FITTING	SI
SQUARE	SQ
STATIC PRESSURE	SP
TOP	T
TRANSVERSE DUCT CONNECTOR	TDC
THROAT	TH
TRANSITION FITTING	TRANS
TURNING VANES	TV
US, UNDERSIDE	U
VERTICAL	V
VOLUME DAMPER	VD
WATER GAUGE	W
WALL INDICATOR	↑
FEMALE INDICATOR	↑O

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER NO.
	MANUAL VOLUME DAMPER WITH QUAD.
	MANUAL VOLUME DAMPER WITH LOCKING QUAD.
	MANUAL VOLUME DAMPER WITH REMOTE ACTUATOR
	CEILING MOUNTED CONCEALED REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK PIECE NO.
	ELEVATION INDICATOR
	SECTION OR DETAIL INDICATOR
	DIRECTION OF SYSTEM AT DUCT ELEVATION INDICATOR

REVISIONS

NO.	DATE	DESCRIPTION
6	8-1-12	AS-BUILT RECORD DRAWING
7	8-4-12	ADDED SEISMIC (NOW-12 PART 2) AS-BUILT RECORD DRAWING

MATERIAL LISTS

DATE	NO.	DESCRIPTION
8-2-11	63A	1-#1VG GALV PCS: 1-62
8-3-11	63B	1-3VG GALV/EQV PCS: 1-11, 1-2VG (FA) PCS: 20-58
8-2-11	63C	1-2VG GALV PCS: 1-32
8-2-11	63D	1-#1VG PCS:1-7 2"X6.6-24, 3"X6.25-30, 2"X6.1-39
1-24-11	63AC	JARDANS PCS: 1-3
10-27-11	63D	1-#1VG GALV:1-5, 1-2"X6.6-8, 2"X6.6-14, 3"X6.11-19
12-13-11	63AC-2	JARDANS PCS: 1-7, 1-11

SHEET METAL CONTRACTORS & FABRICATORS
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E-MAIL TO DETAILING DEPARTMENT:
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JOB NO: 9507 PAY ITEM: 63

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LEVEL TWO AREA J
HVAC SYTEM LAYOUT

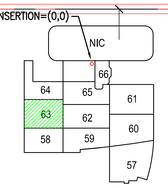
REFERENCE DRAWINGS
ARCH:A3.2J STRUCT: S2.3B&C MECH:M3.2J

BY:

DRAWING NO.
63 OF 115

DATE: 1-27-10

SCALE: 3/8"=1'-0"



KEY PLAN

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO TOP OF DUCT/BOTTOM OF DUCT. ADJUSTMENTS MAY BE MADE FOR TRANSVERSE CONNECTORS/ REINFORCING AS NECESSARY TO RESOLVE CONFLICTS/ COORDINATING ELEVATIONS.

ABBREVIATIONS

AC, AP	ACCESS DOOR, ACCESS PLATE	S & D	S & DRIVE CONNECTOR
B, BOTT	BOTTOM	SI	SPIN-IN FITTING
C	CENTERLINE	SLV	SLEEVE
D, DN	DOWN	SP	STATIC PRESSURE
DC	DUCTMATE CONNECTOR	T	TOP
F, FEM	FEMALE	TDC	TRANSVERSE DUCT CONNECTOR
FD	FIRE DAMPER	THRD	THREAD
FDC	FIRE DEPARTMENT CONNECTION	TR	TRANSITION FITTING
FD	FLANGE OUT	TVANES	TURNING VANES
FDB	FLAT ON BOTTOM	U	UP
FDS	FLAT ON SIDE	UNIV	UNIVERSAL
FDT	FLAT ON TOP	VD	VOLUME DAMPER
H	HORIZONTAL	W	WITH
M	MALE	WG	WATER GAUGE
MOTOR	MOTORIZED DAMPER	WP	WALL PENETRATION
R	RADIUS	>O	FEMALE INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER
	MANUAL VOLUME DAMPER WITH SPAL OR QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH LOCKABLE LOCKING QUADRANT REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PANEL
	DUCTWORK PLUG NO.
	INDICATOR
T= B=	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
64A	4"X4 SUPPLY AIR DUCTWORK UPSTREAM OF BOXES	5-21-10
64B	3"X4 EXHAUST AIR DUCTWORK	5-21-10
64C	2"X4 SUPPLY AIR DUCTWORK DOWNSTREAM OF BOXES	5-21-10
64D	4"X4 KITCHEN EXHAUST	5-21-10
64E	4"X4 GALV 14 RDS 1:3	8-5-11
64F	PUDDLED SPIRAL W DUCTWORK	5-21-10
64AC	ASCUAB PDS 1-1/2-9.0	5-24-11

REVISIONS

NO.	DESCRIPTION	DATE
1	AS-BUILT RECORD DRAWING	5-1-12

HARRIS & HART INC.
1759 WEST 1200 SOUTH
OGDEN, UTAH. 84404
PHONE: (801) 731-0577
FAX NO: (801) 731-0580
WEBSITE: WWW.HARRIS-HART.COM
E-MAIL TO DETAILING DEPARTMENT:
ttaylor@harris-hart.com

JOB NO: 9507 PAY ITEM: 64

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LEVEL TWO AREA K
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.2K STRUCT:S2.3C MECH:M3.2K

BY: BP DRAWING NO. 64 OF 115
DATE: 1-27-10
SCALE: 3/8"=1'-0"

PROJECT RECORD DRAWING

LEVEL TWO - NORTH WEST
FINISHED FLOOR ELEVATION=39'-0" (U.N.O.)
TOP OF STEEL ELEVATION +14'-5 3/4" (U.N.O.)

A/64 SECTION VIEW @ PUBLIC DINING (2.041) (LOOKING EAST) SCALE: 3/8"=1'-0"

B/64 SECTION VIEW @ SERVERY (2.041.00C) (LOOKING EAST) SCALE: 3/8"=1'-0"

L2 KEY PLAN

LEVEL TWO - NORTH CENTRAL

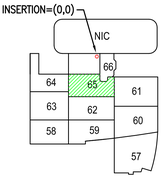
FINISHED FLOOR ELEVATION=95'-0" (U.N.O.)
TOP OF STEEL ELEVATION +14'-5 3/4" (U.N.O.)

A 65 SECTION VIEW (LOOKING WEST) SCALE: 3/8"=1'-0"

B 65 SECTION VIEW (LOOKING WEST) SCALE: 3/8"=1'-0"

C 65 SECTION VIEW (LOOKING NORTH) SCALE: 3/8"=1'-0"

INSERTION=(0,0)



KEY PLAN

"PROJECT RECORD DRAWING"

NOTES

1. ELEVATIONS INDICATED ON THIS DRAWING ARE TO THE BOTTOM OF DUCTWORK. ADJUSTMENTS MADE FOR TRANSVERSE CONNECTORS, INSULATION AND FLEXIBLE DUCTWORK WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE
B, BOTT	BOTTOM
C, CTR	CENTERLINE
D, DN	DOWN
F / TDC	TRANSVERSE DUCT CONNECTOR
FD	FLAT ON BOTTOM
FE	FIRE DAMPER
FO	FLAT ON TOP
FOB	FLAT ON SIDE
FOS	FLAT ON SIDE
H	HORIZONTAL
W	WALL
W/D	WITH DUCT
RD	RADIUS
S	SLEEVE
SLV	SLEEVE
SP	STATIC PRESSURE
T	TEMP
TDC	TRANSVERSE DUCT CONNECTOR
TH	THROAT
TR	TRANSITION FITTING
TV	TURNING VANES
U	UP
V	VERTICAL
VD	VOLUME DAMPER
W	WITH
WG	WATER GAUGE
WP	WATER PROOF
FM	FINANCE INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER
	MANUAL VOLUME DAMPER WITH DIAL OR QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH LOCKING QUADRANT TYPE REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PLATE
	DUCTWORK FLEX. NO. INDICATOR
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

MATERIAL LISTS

NO.	DESCRIPTION	DATE
65A	4"W.G. SUPPLY AIR DUCTWORK UPSTREAM OF BOXES PCS-1B	6-23-10
65B	3"W.G. EXHAUST AIR DUCTWORK PCS-4F	6-23-10
65C	2"W.G. SUPPLY AIR DUCTWORK DOWNSTREAM OF BOXES PCS-1T	6-23-10
65D	PURCHASED SPIRAL 8' DUCTWORK PCS-1P-10P	6-29-10
65E	PURCHASED SPIRAL 8' DUCTWORK PCS-1P-8T	3-4-11
65F	PURCHASED SPIRAL 8' DUCTWORK PCS-3Z*-48P	3-4-11
65G	ADHERE PCS-1-5-4-1	5-24-11
65H	2"W.G. SUPPLY AIR DUCTWORK DOWNSTREAM OF BOXES PCS-1-5	8-4-11

REVISIONS

DATE	NO.	DESCRIPTION
5-7-12	9	AS-BUILT RECORD DRAWING

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JOB NO: 9507 PAY ITEM: 65

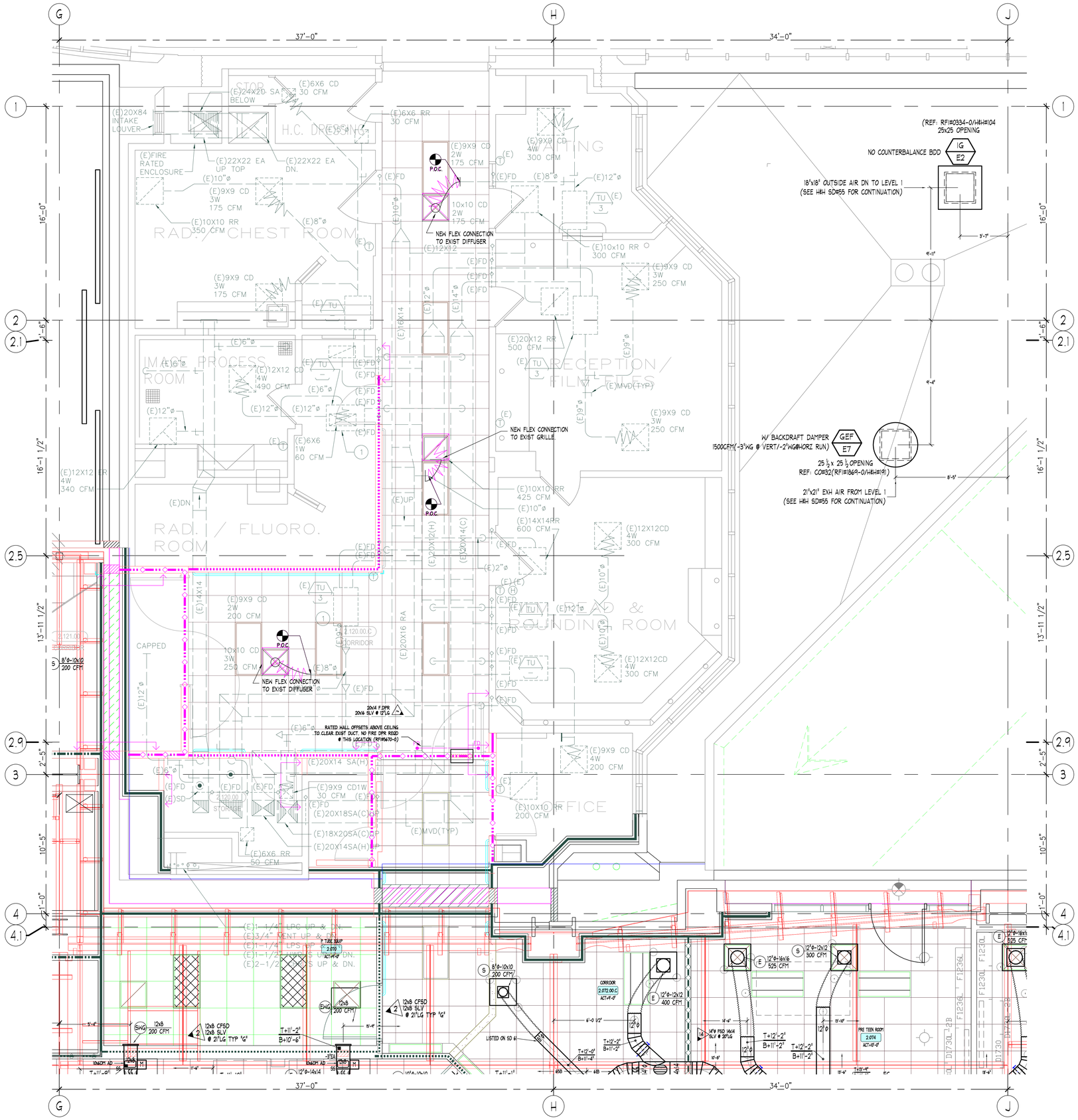
PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LEVEL TWO AREA L
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.2L STRUCT: S2.3C&D MECH:M3.2L

BY: BP
DATE: 1-27-10
SCALE: 3/8"=1'-0"

DRAWING NO.
65 OF 115



NOTES

1. LOCATIONS INDICATED ON THESE DRAWINGS ARE TO THE DUCT BOOT. ALLOWANCES SHALL BE MADE FOR TRANSVERSE CONNECTORS, ACCESS DOORS AND OTHER OBSTRUCTIONS WHEN COORDINATING ELEVATIONS.

ABBREVIATIONS

AD, AP	ACCESS DOOR, ACCESS PLATE	S & D	S & DRIVE CONNECTION
B, BOTT	BOTTOM	SI	SPIN-IN FITTING
C, CL	CENTERLINE	SLV	SLEEVE
D, DN	DOWN	SP, PS	STATIC PRESSURE
Dx	DUCTWORK CONNECTION	T	TOP
F, FTM	FEMALE	TDC	TRANSVERSE DUCT CONNECTOR
FD	FIRE DAMPER	TH	THROAT
FO	FLANGE OUT	TRANS	TRANSITION FITTING
FI	FLANGE IN	TV	TURNING VANES
FOB	FLAT ON BOTTOM	U	UP
FOS	FLAT ON SIDE	V	VERTICAL
FOT	FLAT ON TOP	VD	VOLUME DAMPER
H	HORIZONTAL	W	WITH
M	MALE	WG	WATER GAUGE
SQ	SQUARE	WM	WALL MOUNTED
R	RADIUS	FM	FEMALE INDICATOR

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	FIRE DAMPER OR COMBINATION FIRE/SMOKE DAMPER W/ L.S.
	MANUAL VOLUME DAMPER WITH QUADRANT TYPE REGULATOR
	MANUAL VOLUME DAMPER WITH LOCK AND KEYED LOCKABLE REGULATOR
	MOTORIZED DAMPER
	DUCTWORK ACCESS DOOR OR ACCESS PANEL W/ L.S.
	DUCTWORK PIECE NO. INDICATOR
	TOP OF DUCT/BOTTOM OF DUCT ELEVATION INDICATOR

REVISIONS

NO.	DATE	DESCRIPTION
1	11-12-12	UPDATED FOR INSTALLATION (CO#32-RFI#1869-0/H&H#191 & 104)
2	6-1-12	AS-BUILT RECORD DRAWING W/ANGE CHANGES (CO#185)

MATERIAL LISTS

NO.	DATE	DESCRIPTION

HARRIS & HART INC.
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JOB NO: 9507 PAY ITEM: 66

PROJECT:
CHILDRENS HOSPITAL
ORANGE, CA

TITLE:
LEVEL TWO AREA P
HVAC SYSTEM LAYOUT

REFERENCE DRAWINGS
ARCH:A3.2.1 STRUCT: EXIST MECH: M3.2P

BY: K. BARLOW DRAWING NO.
DATE: 6-1-12 66 OF 115
SCALE: 3/8"=1'-0"