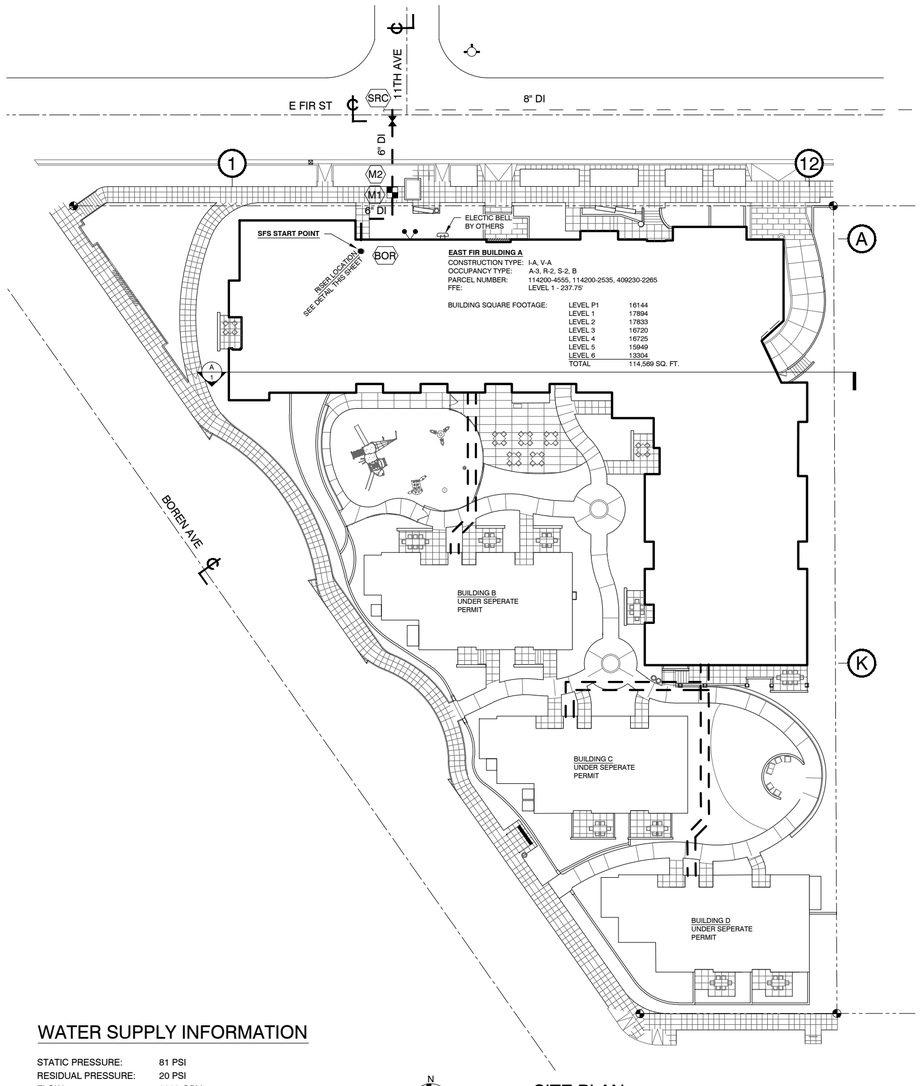
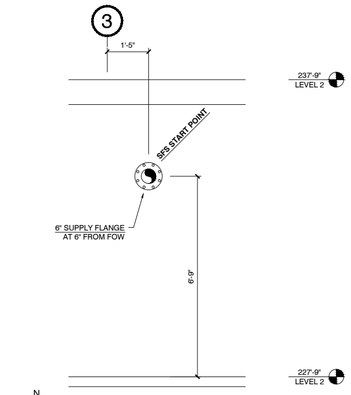


SITE PLAN

SCALE 1" = 20'

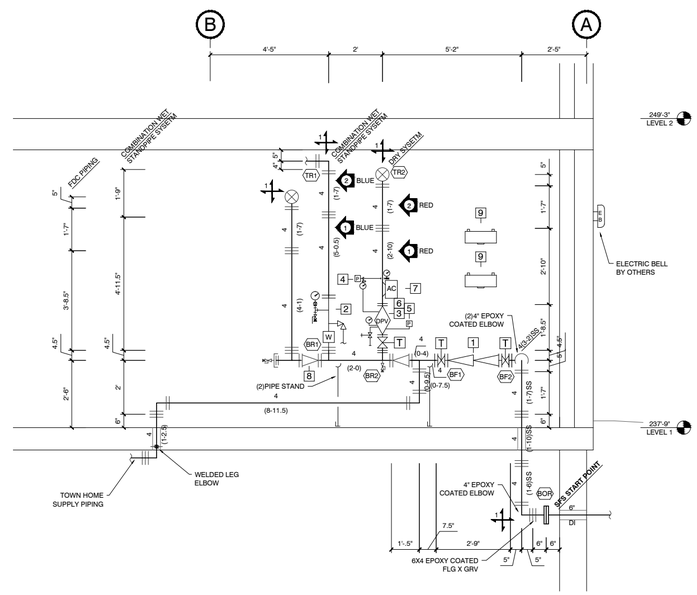
SITE PLAN SYMBOLS

- NEW UNDERGROUND BY OTHERS
- EXISTING UNDERGROUND
- PROPERTY LINE
- STREET CENTERLINE
- EXISTING HYDRANT
- NEW VALVE BY OTHERS
- NEW FIRE DEPARTMENT CONNECTION
- NEW METER BY SPU



FLANGE PLAN

SCALE 1/2" = 1'-0"
FACING NORTH



RISER DETAIL

SCALE 1/2" = 1'-0"
FACING WEST

1. PIPE ALL DRAINS TO SAFE DISCHARGE OUTSIDE.
2. RISER ROOM MUST BE MAINTAINED BY OTHERS AT A MINIMUM OF 40° F.
3. MAINTAIN 2" ANNULAR SPACE AROUND ALL PIPING PASSING THRU CONCRETE FLOORS.

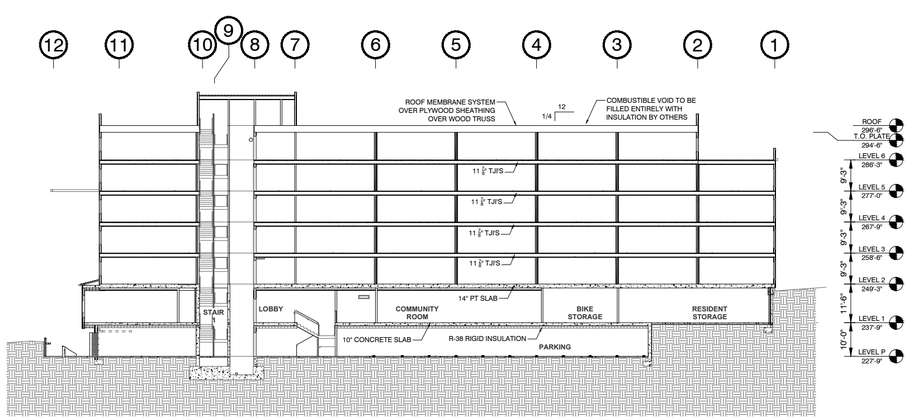
RISER EQUIPMENT LIST

ITEM	QTY.	SIZE	DESCRIPTION	MANUFACTURER	MODEL #
1	1	4"	DOUBLE CHECK VALVE ASSEMBLY WITH BUTTERFLY CONTROL VALVES WITH BUILT IN SUPERVISORY SWITCHES.	WILKINS	350ABGVIC
2	1	4"	SFS SHOTGUN RISER INCLUDING:		
	1	4"	WATER FLOW SWITCH	POTTER ELECTRIC	VSR
	1	2"	TEST AND MAIN DRAIN	AGF	1000
	1	1/4"	WATER PRESSURE GAUGE	ASHCROFT	1005PXUL
3	1	4"	DRY PIPE VALVE W/ BUTTERFLY VALVE W/ BUILT IN TAMPER SWITCH	RELIABLE	DDXLP
4	1	---	PRESSURE SWITCH/ SUPERVISORY AIR	POTTER ELECTRIC	PS40
5	1	---	PRESSURE SWITCH- ALARM	POTTER ELECTRIC	PS10
6	1	---	AIR MAINTENANCE DEVICE	RELIABLE	A2
7	1	400 GAL	AIR COMPRESSOR	GAST	5LCA-22-M550NGX
8	1	4"	SWING CHECK VALVE	GLOBE	RCV
9	2	12 HEAD	SPARE HEAD CABINET CONTAINING THE FOLLOWING: SPARE SPRINKLERS & WRENCHES	RELIABLE	A-4

MANUFACTURER	TYPE	MODEL	HEAD FINISH	K FACTOR	THREAD SIZE	TEMP. RATING	QUANTITY
RELIABLE	SSP	F1RES49	WHITE	4.9	1/2"	155°	4
RELIABLE	SSP	F1RES49	WHITE	4.9	1/2"	175°	4
RELIABLE	SSU	F1FR56	BRZ	5.6	1/2"	155°	4
RELIABLE	SSU	F1FR56	BRZ	5.6	1/2"	200°	2
RELIABLE	SSP	F1FR56	CHROME	5.6	1/2"	155°	4
RELIABLE	SSP	F1FR56	CHROME	5.6	1/2"	200°	2
RELIABLE	SSU	F156	BRZ	5.6	1/2"	155°	2
RELIABLE	SSU	GFR-VELO	BRZ	14.0	3/4"	155°	2
RELIABLE MODEL H HEAD WRENCH							1
RELIABLE MODEL GFR1 SPRINKLER WRENCH							1
RELIABLE MODEL D HEAD WRENCH							1

WATER SUPPLY INFORMATION

STATIC PRESSURE:	81 PSI
RESIDUAL PRESSURE:	20 PSI
FLOW:	2300 GPM
DATE OF TEST:	4-19-13
TEST LOCATION	EAST FIR AND 11TH AVE
ELEVATION:	236'
SOURCE:	MODEL PROVIDED BY SEATTLE PUBLIC UTILITIES



SECTION A/1

FACING SOUTH
NTS

GENERAL NOTES

1. ALL STEEL PIPE TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

STEEL PIPE ASTM A - 795 OR BETTER						
PIPE SIZE	SCHEDULE	WALL THICKNESS	INTERNAL DIAMETER	END PREP TYPES ALLOWED	WEIGHT OF WATER / PIPE	CAPACITY IN GALLONS
1	40	0.133	1.049	THREADED, CUT GROOVED, ROLL GROOVED, PLAIN END, POLISHED	2.05	0.044
1 1/4	40	0.140	1.380	THREADED, CUT GROOVED, ROLL GROOVED, PLAIN END, POLISHED	2.92	0.078
1 1/2	FLOW PIPE	0.095	1.710	ROLL GROOVED, POLISHED, PLAIN END (FOR BUTT WELDING)	2.83	0.122
2	FLOW PIPE	0.095	2.185	ROLL GROOVED, POLISHED, PLAIN END (FOR BUTT WELDING)	3.94	0.198
2 1/2	FLOW PIPE	0.095	2.703	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	5.10	0.298
3	FLOW PIPE	0.093	3.314	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	7.18	0.448
4	FLOW PIPE	0.101	4.298	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	11.03	0.758
5	10	0.134	5.295	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	17.300	1.144
6	**	0.134	6.357	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	23.030	1.649
8	**	0.188	8.249	ROLL GROOVED, PLAIN END (FOR BUTT WELDING)	40.080	2.78
** WALL THICKNESS PER NFPA # 13						

2. ALL GROOVED COUPLINGS TO BE RIGID TYPE UNLESS NOTED (|||) WHICH ARE FLEXIBLE.

3. ALL CPVC PIPE TO BE AS FOLLOWS UNLESS NOTED OTHERWISE:

PIPE SIZE	INTERNAL DIAMETER	WALL THICKNESS	END PREP TYPES ALLOWED	WEIGHT OF WATER / PIPE	CAPACITY IN GALLONS
3/4	0.874	0.088	PLAIN END	0.427	0.0312
1	1.101	0.107	PLAIN END	0.674	0.0495
1 1/4	1.394	0.133	PLAIN END	1.078	0.0793
1 1/2	1.598	0.151	PLAIN END	1.412	0.1042
2	2.003	0.186	PLAIN END	2.223	0.1637
** PER SDR 13.5 ASTM F 442					

SCOPE OF WORK

SMITH FIRE SYSTEMS (SFS) WILL INSTALL A COMBINATION WET PIPE SPRINKLER/STANDPIPE SYSTEM WITH SECTIONAL FLOOR CONTROL VALVES TO PROTECT THE INTERIOR OF THE BUILDING. A DRY SYSTEM WILL BE INSTALLED TO PROTECT THE COLD GARAGE AREA. A CLASS 1 WET STANDPIPE WILL BE INSTALLED IN BOTH STAIRWELLS WITH 2 1/2" FIRE HOSE VALVES. SFS WILL START INSIDE THE BUILDING AT A 6" SUPPLY FLANGE. THE SYSTEMS WILL BE INSTALLED PER NFPA 13, 2007 EDITION & NFPA 14, 2007 EDITION AND PER THE CITY OF SEATTLE.

CLARIFICATIONS

1. ALL AREAS PROTECTED BY THE WET SYSTEM MUST BE MAINTAINED BY OTHERS AT A MINIMUM OF 40° F. TO PREVENT FREEZING.
2. INSULATION CONTRACTOR TO PROVIDE TENTING OF ATTIC INSULATION OVER THE WET SPRINKLER PIPING IN THE ATTIC TO PROTECT THE SYSTEM FROM FREEZING.

EXCLUSIONS

1. PAINTING OR LABELING OF SPRINKLER PIPING.
2. ELECTRICAL WIRING OF ANY KIND.
3. CENTRAL STATION ALARM EQUIPMENT, WIRING, AND MONITORING.
4. ALL UNDERGROUND WORK.
5. FIRESTOPPING.

DESIGN CRITERIA

RESIDENTIAL AREAS:

PER NFPA 13 - 2007 EDITION.
DESIGN DENSITY: .10 GPM/SQ. FT. OVER THE MOST DEMANDING 4 SPRINKLERS AND PER THE SPRINKLER LISTING

COMBINATION STANDPIPE

CLASS 1 PER NFPA 14 - 2007 EDITION

PARKING

ORDINARY GROUP 1 HAZARD PER NFPA 13 - 2007 EDITION
DESIGN DENSITY: .15 GPM/SQ. FT. OVER 1950 SQ. FT.

PER NFPA 13(2007) 11.2.3.2.5: FOR DRY PIPE SYSTEMS THE AREA OF SPRINKLER OPERATION SHALL BE INCREASED BY 30 PERCENT WITHOUT REVISING THE DENSITY.

1500 SQ.FT. X 30% = 450 SQ.FT. + 1500 SQ.FT. = 1950 SQ.FT.

FINAL DESIGN DENSITY: 0.15 GPM/SQ.FT. OVER 1950 SQ.FT.

OFFICE

LIGHT HAZARD PER NFPA 13 - 2007 EDITION
DESIGN DENSITY: .10 GPM/SQ. FT. OVER 900 SQ. FT.

BASE DESIGN DENSITY: 0.10 GPM/SQ.FT. OVER 1500 SQ.FT.
SECTION 11-2.3.2.3.1 ALLOWS A REDUCTION IN THE DESIGN AREA WITHOUT REDUCING THE DENSITY WHERE LISTED QUICK-RESPONSE SPRINKLERS ARE USED THROUGHOUT AND WHEN ALL THE FOLLOWING CONDITIONS ARE MET:

1) WET PIPE SYSTEM.
2) LIGHT HAZARD OR ORDINARY HAZARD OCCUPANCY.
3) 20 FOOT MAXIMUM CEILING HEIGHT.
4) THE NUMBER OF SPRINKLERS IN THE DESIGN AREA SHALL NEVER BE LESS THAN FIVE.
5) THERE ARE NO UNPROTECTED CEILING POCKETS EXCEEDING 32 SQ. FT.

X = CEILING HEIGHT = 10'-0"
Y = PERCENT REDUCTION TO DESIGN AREA
Y = -3X / 2 + 55
Y = -3(10) / 2 + 55 = 40% REDUCTION

1500 X 40% = 600.00 SQ.FT. REDUCTION
1500 - 600 = 900 SQ. FT. DESIGN AREA

FINAL DESIGN DENSITY: 0.10 GPM/SQ.FT. OVER 900 SQ.FT.

WET SYSTEM

AREA DESCRIPTION	AREA SQ. FOOTAGE	NUMBER OF SPRINKLERS
LVL 1	17,894	152
LVL 2	17,833	188
LVL 3	16,720	176
LVL 4	16,725	176
LVL 5	15,949	169
LVL 6	13,304	149
TOTAL:	98,425	1010

HYDRAULIC CALCULATION DATA

DENSITY: .10 GPM OVER 4 DEMANDING SPRINKLERS
DEMAND AT BASE OF RISER
62.2 GPM AT 63.0 PSI (0 GPM INSIDE HOSE ALLOWANCE)
DEMAND AT PUBLIC MAIN
162.2 GPM AT 65.3 PSI (100 GPM TOTAL HOSE ALLOWANCE)

DRY SYSTEM

AREA DESCRIPTION	AREA SQ. FOOTAGE	NUMBER OF SPRINKLERS
LVL P1	16,144	80
TOTAL:	16,144	80

HYDRAULIC CALCULATION DATA

DENSITY: .15 GPM OVER 1950 SQ. FT.
DEMAND AT BASE OF RISER
365.8 GPM AT 57.9 PSI (0 GPM INSIDE HOSE ALLOWANCE)
DEMAND AT PUBLIC MAIN
615.8 GPM AT 60.4 PSI (250 GPM TOTAL HOSE ALLOWANCE)

SYSTEM CAPACITY: 332 GALLONS

STANDPIPE SYSTEM

CLASS 1 WET STANDPIPE
STAIR 3

HYDRAULIC CALCULATION DATA

DESIGN DENSITY : 500 GPM @ 100 PSI AT ROOF
(250 GPM PER HOSE VALVE WITH A MAXIMUM 1000 GPM)

DEMAND AT FIRE DEPARTMENT CONNECTION :
750 GPM AT 162.1 PSI

AS-BUILT SITE PLAN

!CAUTION! 50% REDUCED PRINTS

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP RATING	QUANTITY
									TOTAL THIS SHEET	

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PURLIN
BOT	BOTTOM OF TRUSS
CTS	CUT TO SUIT
FO	FIELD ORDER
IFOW	INSIDE FACE OF WALL
OFOW	OUTSIDE FACE OF WALL
NAS	NO AUTO. SPRINKLERS
UNO	UNLESS NOTED OTHERWISE

SYMBOL LEGEND

- (12) B2G — CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- 4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- HANGER LOCATION
- ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
- HYDRAULIC CALCULATION NODE
- FLEXIBLE COUPLING
- RIGID COUPLING

REVISIONS

NO.	DATE	BY	REASON FOR REVISION

CONTRACT WITH

ANDERSEN CONSTRUCTION COMPANY
900 POPLAR PL.
SEATTLE, WA 98144

PROJECT MANAGER : BEN BRODSKY
PHONE : 206-396-7095
FAX : 206-763-6710
SUPERINTENDENT : SPANKY BARNES
PHONE : 253-358-0102
FAX :

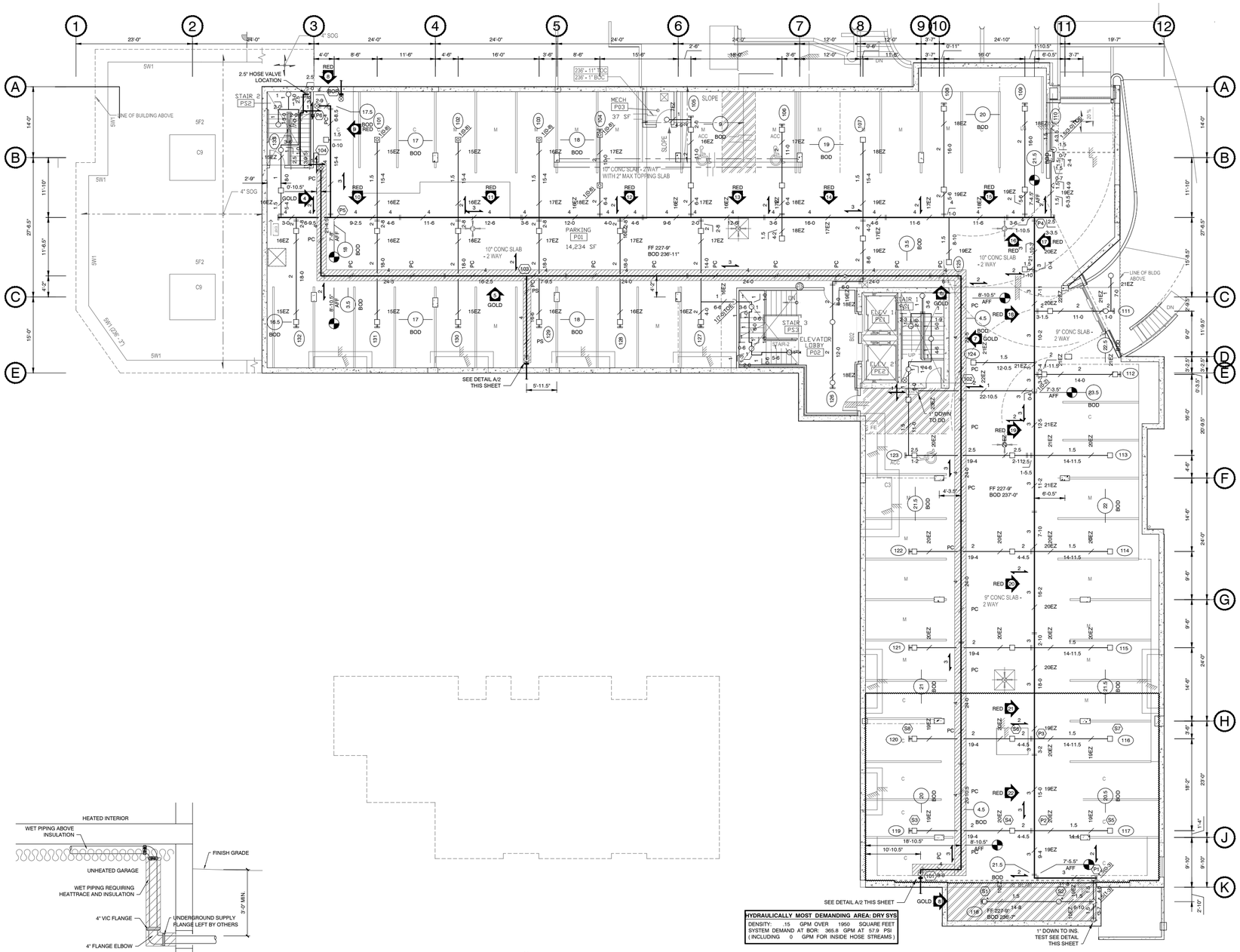
CERTIFICATE OF COMPETENCY STAMP

KEY PLAN

SMITH FIRE SYSTEMS, INC.
1106 54th AVE EAST
TACOMA, WA 98424
CONTR. REG. NO. SMITHFS1360T
Bus: (253) 926 - 1880 FAX: (253) 926 - 2350

EAST FIR APARTMENTS
BUILDING A
1105 EAST FIR
SEATTLE, WA 98122

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	1 OF 10	TC12012

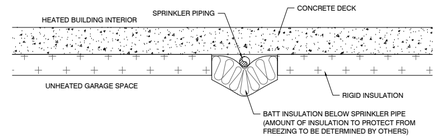


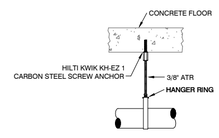
HYDRAULICALLY MOST DEMANDING AREA: DRY SYS
DENSITY: .15 GPM OVER 1950 SQUARE FEET
SYSTEM DEMAND AT BOR: 365.8 GPM AT 57.9 PSI
(INCLUDING 0 GPM FOR INSIDE HOSE STREAMS)

FITTER/LISTER NOTES:

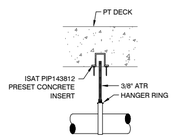
1. ALL DRY SYSTEM BRANCHLINES ARE TO BE SLOPED AT 1/2" PER 10' MIN.
2. ALL DRY SYSTEM MAINS ARE TO BE SLOPED AT 1/4" PER 10' MIN.
3. LATERAL BRACING SHALL NOT BE REQUIRED WHERE PIPES ARE SUPPORTED BY RODS LESS THAN 6". (SECTION 9.3.5.3.8)

INDICATES WET PIPING LOCATED ABOVE BATT INSULATION

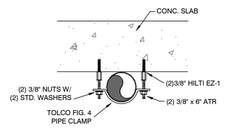




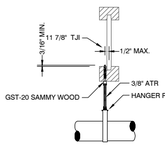
HANGER EZ



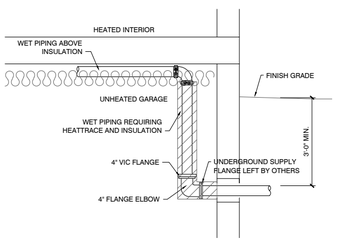
HANGER B



HANGER PC

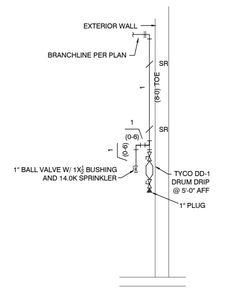


HANGER SW

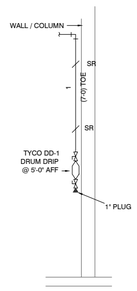


DETAIL A/2

LEVEL P

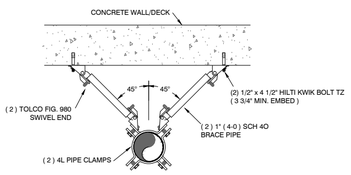


INSPECTORS TEST DETAIL

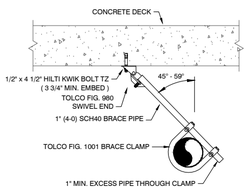


DRUM DRIP

!CAUTION! 50% REDUCED PRINTS



EQ 1



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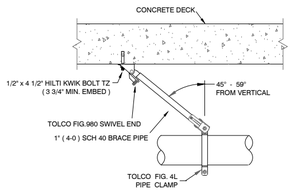

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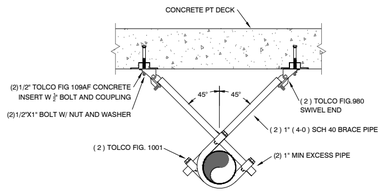

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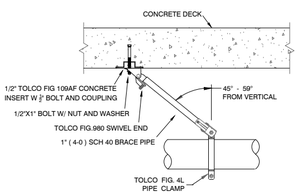

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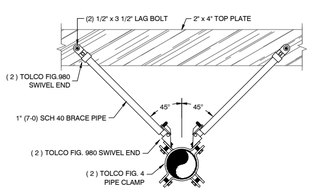

EQ 6

LEVEL P

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	EXCITCHEN FINISH	ORIFICE SIZE	THREAD SIZE	TEMP RATING	QUANTITY
	RELIABLE	RA1325	SSU	F1-56	BRASS	---	5.6K	1/2"	155	2
D B	VIKING	VK570	EC-SSU	VK570	BRASS	---	14.0K	3/4"	155	54
	RELIABLE	RA1425	SSU	F1FR-56	BRASS	---	5.6K	1/2"	155	10
	TYCO	TY5332	HSW	SW-20	BRASS	---	11.2K	3/4"	155	2
									TOTAL THIS SHEET	68

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOF	BOTTOM OF FOOTING
BOP	BOTTOM OF PURLIN
BOT	BOTTOM OF TRUSS
CTS	CUT TO SUIT
FO	FIELD ORDER
IFOW	INSIDE FACE OF WALL
OFOW	OUTSIDE FACE OF WALL
NAS	NO AUTO. SPRINKLERS
UNO	UNLESS NOTED OTHERWISE

SYMBOL LEGEND

- (12) BOD — CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- 4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- HANGER LOCATION
- ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
- HYDRAULIC CALCULATION NODE
- FLEXIBLE COUPLING
- RIGID COUPLING

REVISIONS

NO.	DATE	BY	REASON FOR REVISION

CONTRACT WITH

ANDERSEN CONSTRUCTION COMPANY
900 POPLAR PL.
SEATTLE, WA 98144

PROJECT MANAGER : BEN BRODSKY
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KEY PLAN

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CONTR. REG. NO. SMITHFS1360T
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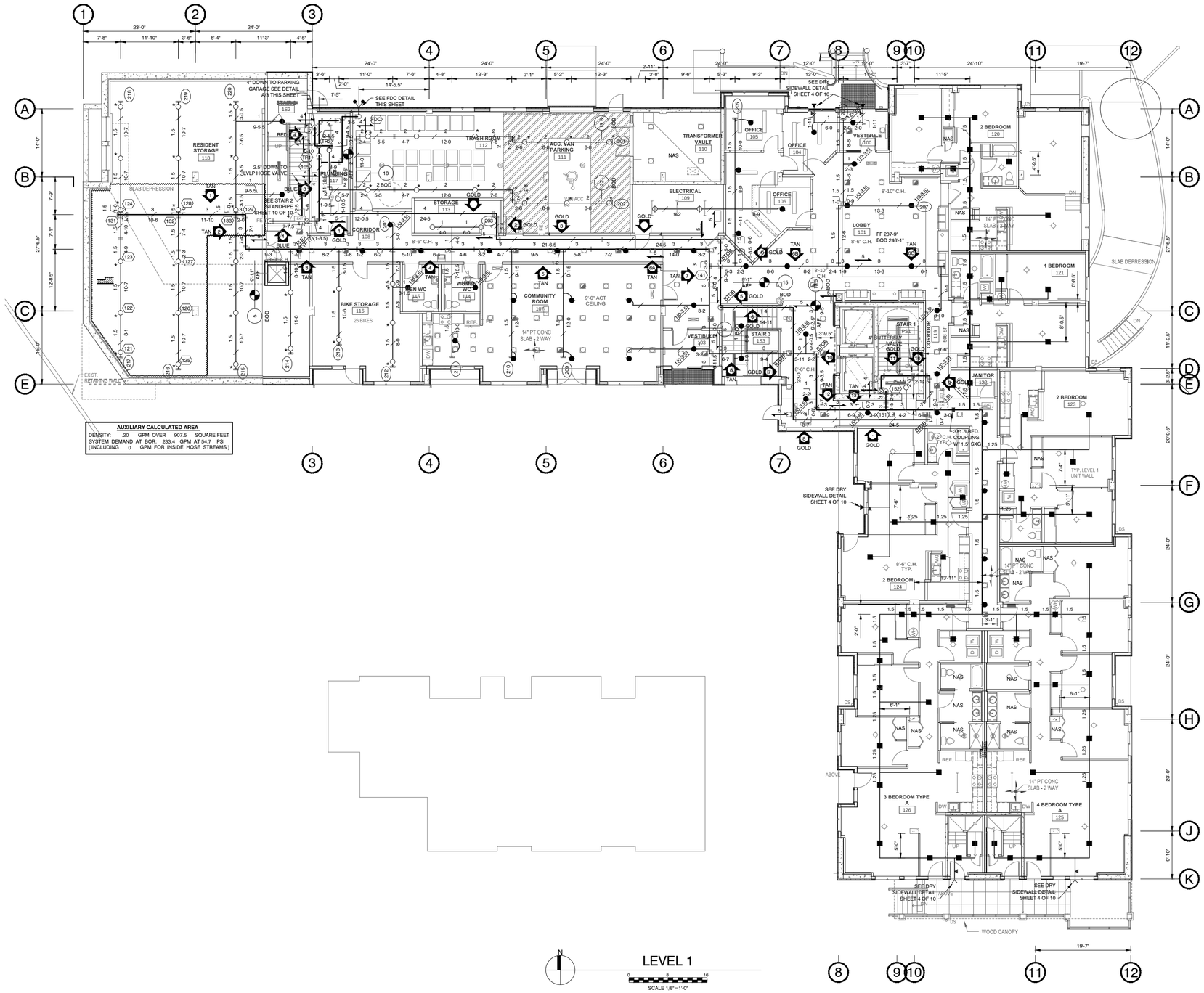
EAST FIR APARTMENTS
BUILDING A
1105 EAST FIR
SEATTLE, WA 98122

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	2 OF 10	TC12012



AUXILIARY CALCULATED AREA
DENSITY: .20 GPM OVER 907.5 SQUARE FEET
SYSTEM DEMAND AT BOR: 233.4 GPM AT 54.7 PSI
(INCLUDING 0 GPM FOR INSIDE HOSE STREAMS)

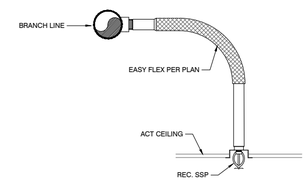
LEVEL 1

SCALE 1/8"=1'-0"

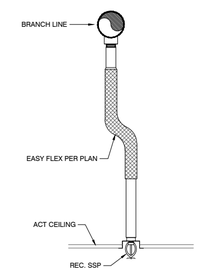
FITTER/LISTER NOTES:

1. ALL CPVC PIPING IS 1" U.N.O.
2. ALL DROPS ARE TO BE 1" CPVC.
3. HANGERS FOR CPVC PIPING ARE NOT SHOWN ON THE PLAN. HANGERS ARE REQUIRED WITHIN 6" OF THE SPRINKLER HEAD AT THE END OF THE LINE.
   HANGER SPACING FOR CPVC PIPING IS PER THE MANUFACTURE'S LISTING AS FOLLOWS:
   - 3/4" CPVC 5'-6" OC
   - 1" CPVC 6'-0" OC
   - 1 1/4" CPVC 6'-6" OC
   - 1 1/2" CPVC 7'-0" OC
   - 2" CPVC 8'-0" OC
4. RELIABLE MODEL F1 RES 49/F1 RESIDENTIAL SPRINKLER SHALL NOT BE SPACED MORE THAN 18 FEET BETWEEN SPRINKLERS OR 9 FEET FROM A WALL
5. RELIABLE MODEL F1RES 49/F1 SPRINKLERS SHALL NOT BE SPACED AT MORE THAN 170 SQ. FT.
6. RELIABLE MODEL F1RES 49/F1 SPRINKLERS SHALL NOT BE SPACED LESS THAN 8FT BETWEEN SPRINKLER.
7. ALL WALLS ARE FULL HEIGHT U.N.O.
8. ALL STEEL PIPE IS NOTED BY SIZE AND LENGTH, FOR EXAMPLE: 1.25 / 1-6
9. ALL CPVC PIPE IS NOTED BY SIZE ONLY, FOR EXAMPLE: 1.25
10. ALL PIPE WITHOUT SIZE OR LENGTH IS 1" CPVC.
11. LATERAL BRACING SHALL NOT BE REQUIRED WHERE PIPES ARE SUPPORTED BY RODS LESS THAN 6".PER NFPA 13 SECTION 9.3.5.3.8
12. ALL PIPING THIS SHEET IS TO BE LOCATED AT 9'-11" AFF (5 BOD) UNO.
13. ALL CEILINGS THIS LEVEL AT 9'-0" UNO.
14. ALL STEEL DROPS THIS SHEET ARE TO BE 1(0-2) WITH ADN UNO.
15. ALL BRANCHLINE HANGERS ARE TO BE 5B UNO.
16. ALL MAIN HANGERS ARE TO BE 4B UNO. EXCEPT STANDPIPE BULK IS 3B
17. ALL FLEX DROPS ARE TO BE 48" EASY FLEX AND PER FLEX 1 DETAIL THIS SHEET UNO.
18. SPRINKLERS OMITTED FROM BATHROOMS LESS THAN 55 SQ. FT. PER NFPA 13 SECTION 8.15.8.1.1
19. SPRINKLERS OMITTED FROM CLOSETS LESS THAN 12 SQ. FT. PER NFPA 13 SECTION 21.20.19.2.1

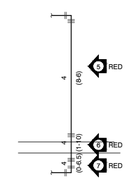
★ INDICATES SPRINKLER INSTALLED WITH HEAD GUARD



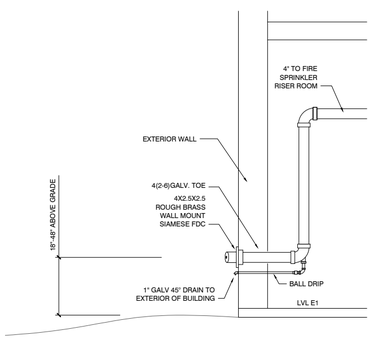
FLEX 1



FLEX 2



DETAIL A/3



FDC DETAIL

!CAUTION! 50% REDUCED PRINTS

LEVEL 1

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP RATING	QUANTITY
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	10
◀	RELIABLE	R5734	DRY HSW	F3QR	CHR	CHR	5.6K	1"	155	3
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	56
○	RELIABLE	RA1425	SSU	F1FR-56	BRASS	---	5.6K	1/2"	155	49
●	RELIABLE	RA1414	SSP	F1FR-56	CHR	CHR	5.6K	1/2"	155	45
◇	RELIABLE	RA1425	SSU	F1FR-56	BRASS	---	5.6K	1/2"	200	2
<	RELIABLE	RA1664	DRY HSW	DH-56	CHR	CHR	5.6K	1"	155	2
<	RELIABLE	RA1664	HSW	F1RES44	WHITE	WHITE	4.4K	1/2"	155	1
									TOTAL THIS SHEET	167

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PURLIN
BOT	BOTTOM OF TRUSS
FD	FIELD DROP
FS	FIELD SHIFT
IFOW	INSIDE FACE OF WALL
OFOW	OUTSIDE FACE OF WALL
NAS	NO AUTO. SPRINKLERS
UNO	UNLESS NOTED OTHERWISE

SYMBOL LEGEND

- (12) BOD — CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- 4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- HANGER LOCATION
- ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
- HYDRAULIC CALCULATION NODE
- FLEXIBLE COUPLING
- RIGID COUPLING

REVISIONS

NO.	DATE	BY	REASON FOR REVISION

CONTRACT WITH

ANDERSEN CONSTRUCTION COMPANY
900 POPLAR PL.
SEATTLE, WA 98144

PROJECT MANAGER : BEN BRODSKY
PHONE : 206-396-7095
FAX : 206-763-6710
SUPERINTENDENT : SPANKY BARNES
PHONE : 253-358-0102
FAX :

CERTIFICATE OF COMPETENCY STAMP

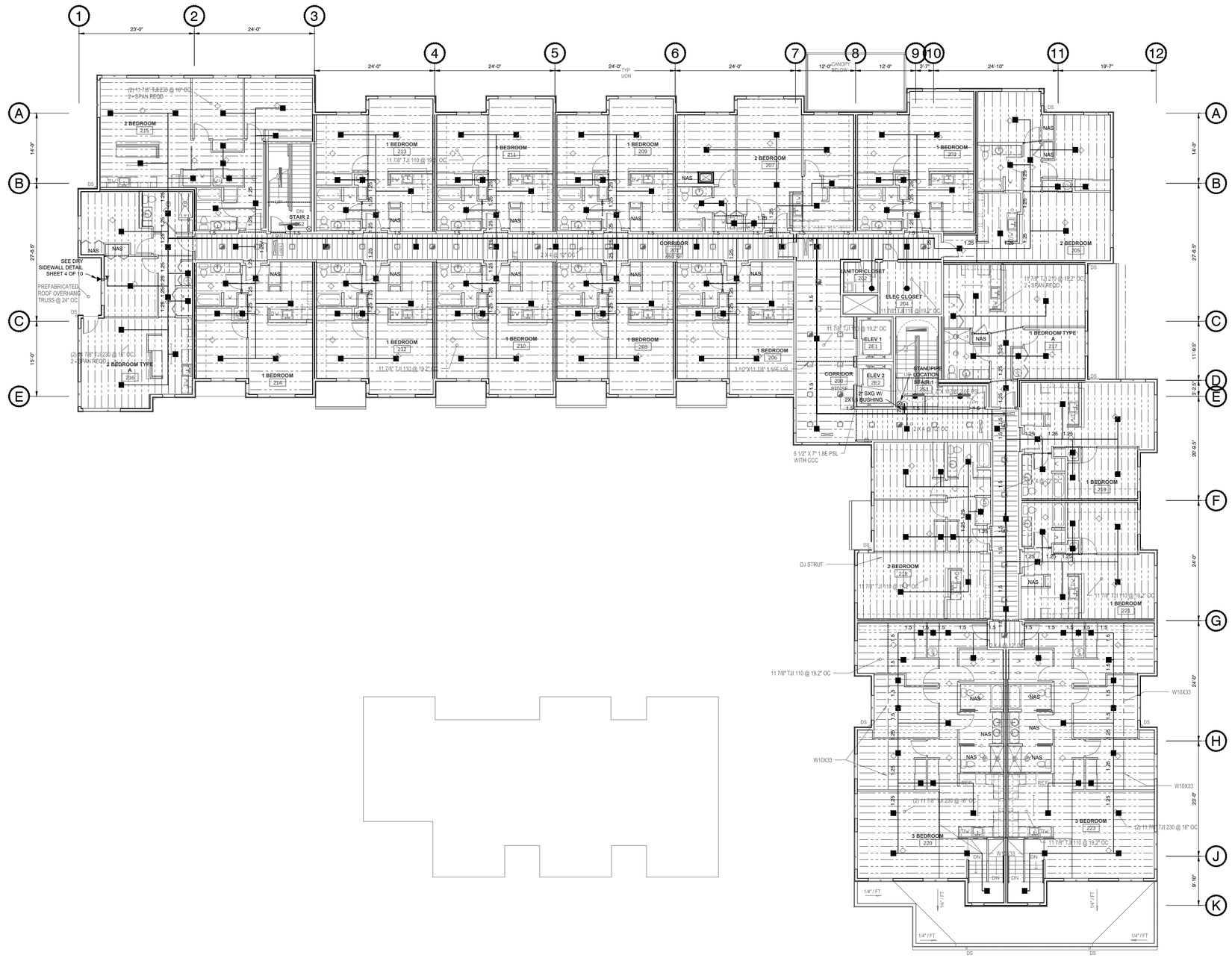
KEY PLAN

SMITH FIRE SYSTEMS, INC.
1106 54th AVE EAST
TACOMA, WA 98424
CONTR. REG. NO. SMITHFS1360T
Bus: (253) 926 - 1880 FAX: (253) 926 - 2350

EAST FIR APARTMENTS BUILDING A

1105 EAST FIR
SEATTLE, WA 98122

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	3 OF 10	TC12012



FITTER/LISTER NOTES:

1. ALL CPVC PIPING IS 1" U.N.O.
2. ALL DROPS ARE TO BE 1" CPVC.
3. SPRINKLER PIPING IN JOIST SPACES ARE TO BE 6" ABOVE THE BOTTOM OF JOIST (ABOJ).
4. HANGERS FOR CPVC PIPING ARE NOT SHOWN ON THE PLAN. HANGERS ARE REQUIRED WITHIN 6" OF THE SPRINKLER HEAD AT THE END OF THE LINE.
   HANGER SPACING FOR CPVC PIPING IS PER THE MANUFACTURE'S LISTING AS FOLLOWS:

3/4" CPVC	5'-6" OC
1" CPVC	6'-0" OC
1 1/4" CPVC	6'-6" OC
1 1/2" CPVC	7'-0" OC
2" CPVC	8'-0" OC

5. RELIABLE MODEL F1 RES 49/F1 RESIDENTIAL SPRINKLER SHALL NOT BE SPACED MORE THAN 16 FEET BETWEEN SPRINKLERS OR 8 FEET FROM A WALL.
6. RELIABLE MODEL F1RES 49/F1 SPRINKLERS SHALL NOT BE SPACED AT MORE THAN 145 SQ. FT.
7. RELIABLE MODEL F1RES 49/F1 SPRINKLERS SHALL NOT BE SPACED LESS THAN 8FT BETWEEN SPRINKLER.
8. ALL WALLS ARE FULL HEIGHT U.N.O.
9. ALL STEEL PIPE IS NOTED BY SIZE AND LENGTH, FOR EXAMPLE: 1.25 / 1-6
10. ALL CPVC PIPE IS NOTED BY SIZE ONLY, FOR EXAMPLE: 1.25
11. ALL PIPE WITHOUT SIZE OR LENGTH IS 1" CPVC.
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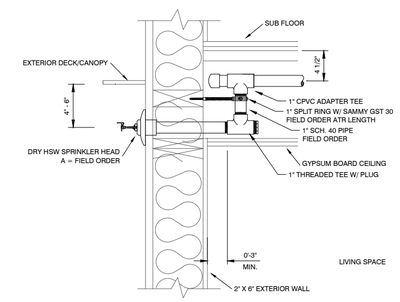
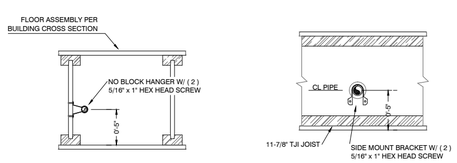
13. SPRINKLERS OMITTED FROM CLOSETS LESS THAN 12 SQ. FT. PER NFPA 13 SECTION 21.20.19.2.1



DRY SIDEWALL DETAIL

!CAUTION! 50% REDUCED PRINTS

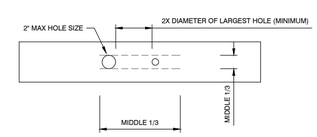


TYP. CPVC HANGERS

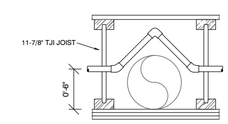
N

LEVEL 2

SCALE 1/8" = 1'-0"



BEAM PENETRATIONS



OFFSET FOR HVAC

TYP. CPVC DETAILS

LEVEL 2

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP RATING	QUANTITY
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	37
◀	RELIABLE	R5734	DRY HSW	F3QR	CHR	CHR	5.6K	1"	155	1
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	146
●	RELIABLE	RA1414	SSP	F1FR-56	CHR	CHR	5.6K	1/2"	155	3
●	RELIABLE	RA1414	SSU	F1FR-56	CHR	CHR	5.6K	1/2"	200	1
									TOTAL THIS SHEET	188

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PURLIN
BOT	BOTTOM OF TRUSS
CTS	CUT TO SUIT
FO	FIELD ORDER
IFOW	INSIDE FACE OF WALL
OFOW	OUTSIDE FACE OF WALL
NAS	NO AUTO. SPRINKLERS
UNO	UNLESS NOTED OTHERWISE

SYMBOL LEGEND

- 12 / BOD — CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- 4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- HANGER LOCATION
- ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
- HYDRAULIC CALCULATION NODE
- FLEXIBLE COUPLING
- RIGID COUPLING

REVISIONS

NO.	DATE	BY	REASON FOR REVISION

CONTRACT WITH

ANDERSEN CONSTRUCTION COMPANY
900 POPLAR PL.
SEATTLE, WA 98144

PROJECT MANAGER : BEN BRODSKY
PHONE : 206-396-7095
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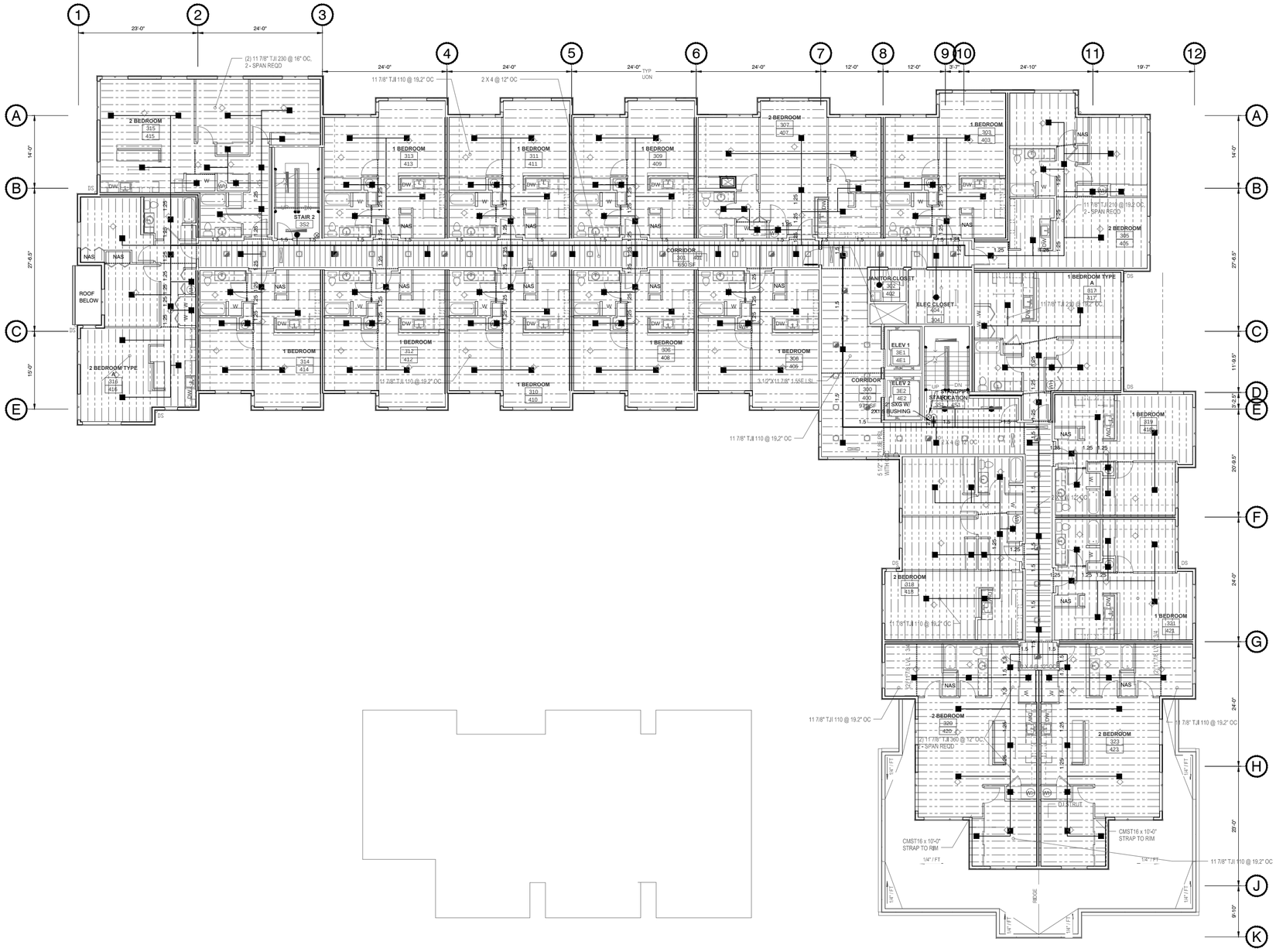
CERTIFICATE OF COMPETENCY STAMP

KEY PLAN

SMITH FIRE SYSTEMS, INC.
1106 54th AVE EAST
TACOMA, WA 98424
CONTR. REG. NO. SMITHFS1360T
Bus: (253) 926 - 1880 FAX: (253) 926 - 2350

EAST FIR APARTMENTS
BUILDING A
1105 EAST FIR
SEATTLE, WA 98122

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	4 OF 10	TC12012



N

LEVEL 3-4

0 8 16

SCALE 1/8"=1'-0"

FITTER/LISTER NOTES:

1. ALL CPVC PIPING IS 1" U.N.O.
2. ALL DROPS ARE TO BE 1" CPVC.
3. SPRINKLER PIPING IN JOIST SPACES ARE TO BE 6" ABOVE THE BOTTOM OF JOIST (ABOJ).
4. HANGERS FOR CPVC PIPING ARE NOT SHOWN ON THE PLAN. HANGERS ARE REQUIRED WITHIN 6" OF THE SPRINKLER HEAD AT THE END OF THE LINE.
   HANGER SPACING FOR CPVC PIPING IS PER THE MANUFACTURE'S LISTING AS FOLLOWS:

3/4" CPVC	5'-6" OC
1" CPVC	6'-0" OC
1 1/4" CPVC	6'-6" OC
1 1/2" CPVC	7'-0" OC
2" CPVC	8'-0" OC

5. RELIABLE MODEL F1 RES 49/F1 RESIDENTIAL SPRINKLER SHALL NOT BE SPACED MORE THAN 16 FEET BETWEEN SPRINKLERS OR 8 FEET FROM A WALL.
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7. RELIABLE MODEL F1RES 49/F1 SPRINKLERS SHALL NOT BE SPACED LESS THAN 8FT BETWEEN SPRINKLER.
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9. ALL STEEL PIPE IS NOTED BY SIZE AND LENGTH, FOR EXAMPLE: 1.25 / 1-6
10. ALL CPVC PIPE IS NOTED BY SIZE ONLY, FOR EXAMPLE: 1.25
11. ALL PIPE WITHOUT SIZE OR LENGTH IS 1" CPVC.
12. SPRINKLERS OMITTED FROM BATHROOMS LESS THAN 55 SQ. FT. PER NFPA 13 SECTION 8.15.8.1.1
13. SPRINKLERS OMITTED FROM CLOSETS LESS THAN 12 SQ. FT. PER NFPA 13 SECTION 21.20.19.2.1

!CAUTION! 50% REDUCED PRINTS

LEVEL 3-4

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FACTOR	ESCUTCHEON COLOR	ORIFICE SIZE	THREAD SIZE	TEMP RATING	QUANTITY
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	37
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	134
●	RELIABLE	RA1414	SSP	F1FR-56	CHR	CHR	5.6K	1/2"	155	4
●	RELIABLE	RA1414	SSU	F1FR-56	CHR	CHR	5.6K	1/2"	200	1
									TOTAL THIS SHEET	176

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PURLIN
BOT	BOTTOM OF TRUSS
CTS	CUT TO SUIT
FO	FIELD ORDER
IFOW	INSIDE FACE OF WALL
OFOW	OUTSIDE FACE OF WALL
NAS	NO AUTO. SPRINKLERS
UNO	UNLESS NOTED OTHERWISE

SYMBOL LEGEND

- 12 / BOD — CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- 4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- HANGER LOCATION
- ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
- HYDRAULIC CALCULATION NODE
- FLEXIBLE COUPLING
- RIGID COUPLING

REVISIONS

NO.	DATE	BY	REASON FOR REVISION

CONTRACT WITH

ANDERSEN CONSTRUCTION COMPANY
900 POPLAR PL.
SEATTLE, WA 98144

PROJECT MANAGER : BEN BRODSKY
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CERTIFICATE OF COMPETENCY STAMP

KEY PLAN

SMITH FIRE SYSTEMS, INC.
1106 54th AVE EAST
TACOMA, WA 98424
CONTR. REG. NO. SMITHFS1360T
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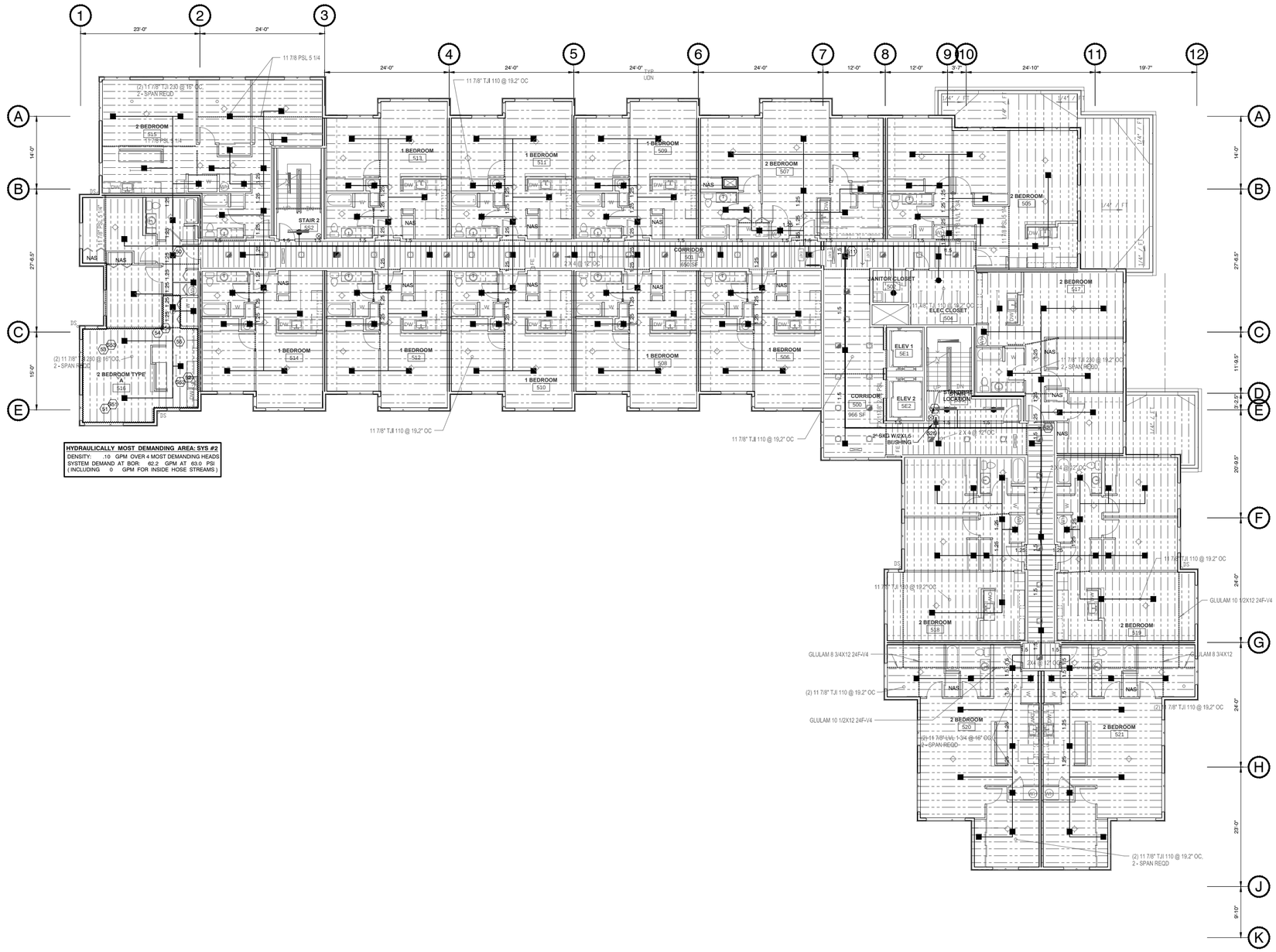
EAST FIR APARTMENTS
BUILDING A
1105 EAST FIR
SEATTLE, WA 98122

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	5 OF 10	TC12012



FITTER/LISTER NOTES:

1. ALL CPVC PIPING IS 1" U.N.O.
2. ALL DROPS ARE TO BE 1" CPVC.
3. SPRINKLER PIPING IN JOIST SPACES ARE TO BE 6" ABOVE THE BOTTOM OF JOIST (ABOJ).
4. HANGERS FOR CPVC PIPING ARE NOT SHOWN ON THE PLAN. HANGERS ARE REQUIRED WITHIN 6" OF THE SPRINKLER HEAD AT THE END OF THE LINE.
   HANGER SPACING FOR CPVC PIPING IS PER THE MANUFACTURE'S LISTING AS FOLLOWS:
   - 3/4" CPVC 5'-6" OC
   - 1" CPVC 6'-0" OC
   - 1 1/4" CPVC 6'-6" OC
   - 1 1/2" CPVC 7'-0" OC
   - 2" CPVC 8'-0" OC
5. RELIABLE MODEL F1 RES 49/F1 RESIDENTIAL SPRINKLER SHALL NOT BE SPACED MORE THAN 16 FEET BETWEEN SPRINKLERS OR 8 FEET FROM A WALL.
6. RELIABLE MODEL F1RES 49/F1 SPRINKLERS SHALL NOT BE SPACED AT MORE THAN 145 SQ. FT.
7. RELIABLE MODEL F1RES 49/F1 SPRINKLERS SHALL NOT BE SPACED LESS THAN 8FT BETWEEN SPRINKLER.
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13. SPRINKLERS OMITTED FROM CLOSETS LESS THAN 12 SQ. FT. PER NFPA 13 SECTION 21.20.19.2.1

!CAUTION! 50% REDUCED PRINTS

LEVEL 5

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP. RATING	QUANTITY
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	31
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	133
●	RELIABLE	RA1414	SSP	F1FR-56	CHR	CHR	5.6K	1/2"	155	4
●	RELIABLE	RA1414	SSU	F1FR-56	CHR	CHR	5.6K	1/2"	200	1
									TOTAL THIS SHEET	169

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PURLIN
BOT	BOTTOM OF TRUSS
CTS	CUT TO SUIT
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IFOW	INSIDE FACE OF WALL
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SYMBOL LEGEND

- (12 BOD) CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
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REVISIONS

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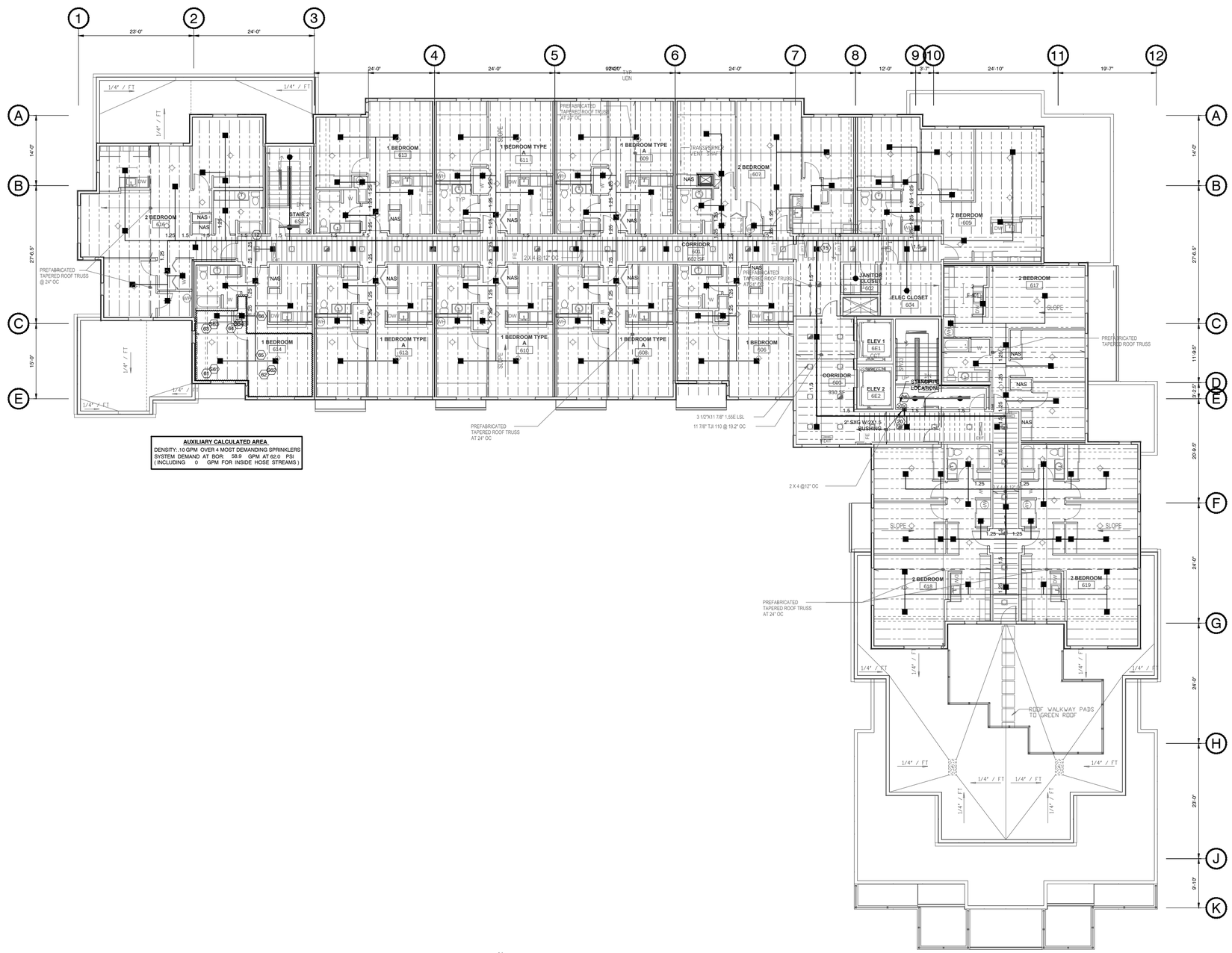
DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	6 OF 10	TC12012



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1" CPVC	6'-0" OC
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1 1/2" CPVC	7'-0" OC
2" CPVC	8'-0" OC

5. RELIABLE MODEL F1 RES 49/F1 RESIDENTIAL SPRINKLER SHALL NOT BE SPACED MORE THAN 16 FEET BETWEEN SPRINKLERS OR 8 FEET FROM A WALL.
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7. RELIABLE MODEL F1RES 49/F1 SPRINKLERS SHALL NOT BE SPACED LESS THAN 8FT BETWEEN SPRINKLER.
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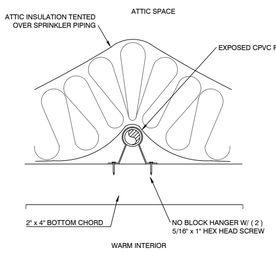
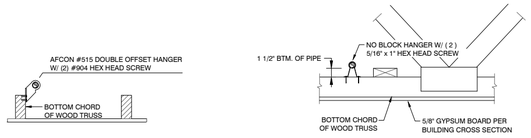


INSULATION TENTING DETAIL



TYP. CPVC HANGERS

!CAUTION! 50% REDUCED PRINTS

N

LEVEL 6

SCALE 1/8"=1'-0"

LEVEL 6

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP RATING	QUANTITY
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	25
■	RELIABLE	R3516	SSP	F1/RES49	WHITE	WHITE	4.9K	1/2"	175	110
●	RELIABLE	RA1414	SSP	F1FR-56	CHR	CHR	5.6K	1/2"	155	5
◆	RELIABLE	RA1414	SSU	F1FR-56	CHR	CHR	5.6K	1/2"	200	1
									TOTAL THIS SHEET	141

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOF	BOTTOM OF FOOT
BOP	BOTTOM OF PURLIN
BOT	BOTTOM OF TRUSS
CTS	CUT TO SUIT
FO	FIELD ORDER
IFOW	INSIDE FACE OF WALL
OFOW	OUTSIDE FACE OF WALL
NAS	NO AUTO. SPRINKLERS
UNO	UNLESS NOTED OTHERWISE

SYMBOL LEGEND

- (12) B20 — CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- 4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- HANGER LOCATION
- ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
- HYDRAULIC CALCULATION NODE
- FLEXIBLE COUPLING
- RIGID COUPLING

REVISIONS

NO.	DATE	BY	REASON FOR REVISION

CONTRACT WITH

ANDERSEN CONSTRUCTION COMPANY
900 POPLAR PL.
SEATTLE, WA 98144

PROJECT MANAGER : BEN BRODSKY
PHONE : 206-396-7095
FAX : 206-763-6710
SUPERINTENDENT : SPANKY BARNES
PHONE : 253-358-0102
FAX :

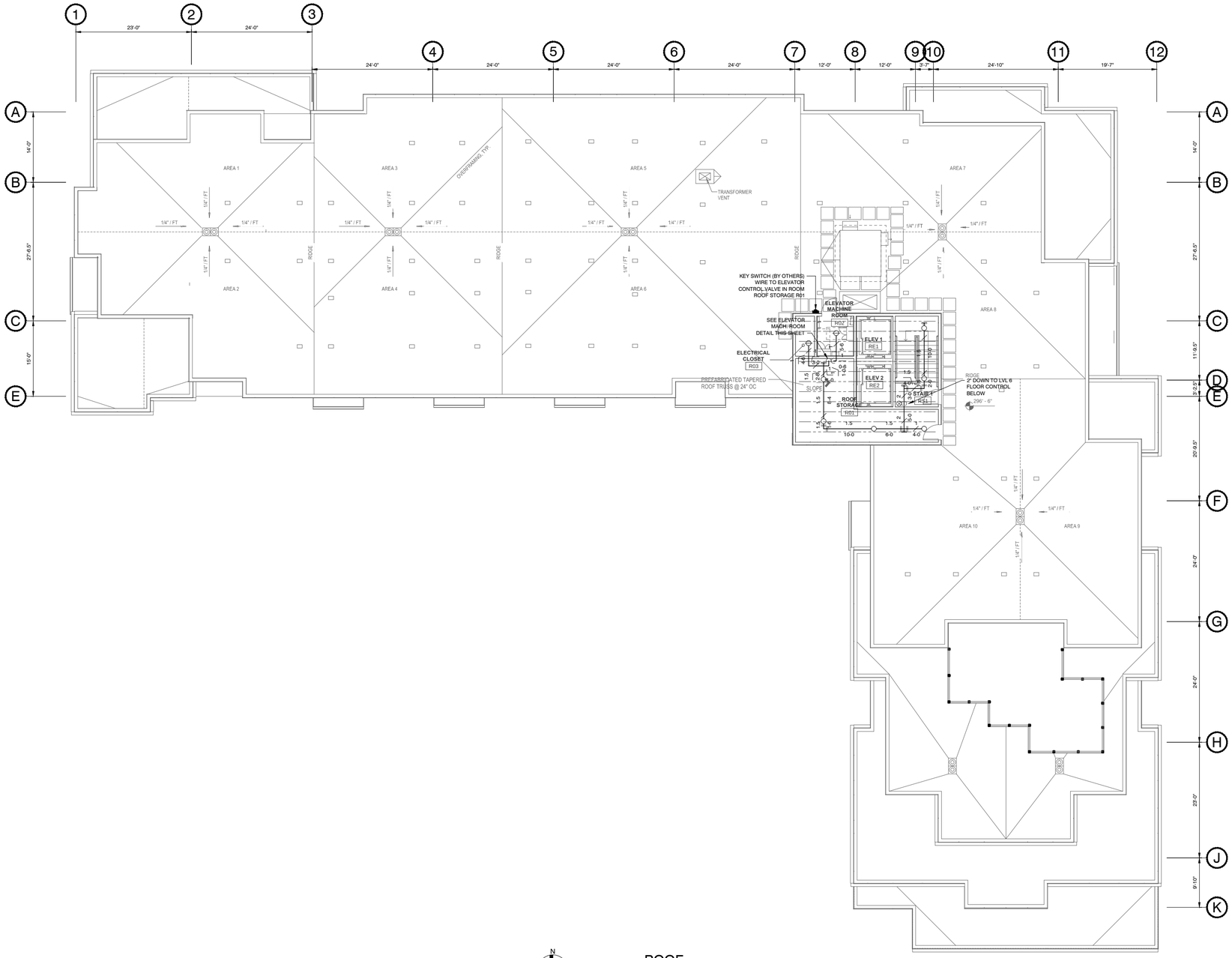
CERTIFICATE OF COMPETENCY STAMP

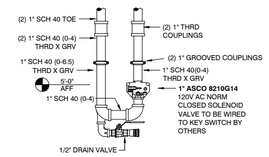
KEY PLAN

SMITH FIRE SYSTEMS, INC.
1106 54th AVE EAST
TACOMA, WA 98424
CONTR. REG. NO. SMITHFS1360T
Bus: (253) 926 - 1880 FAX: (253) 926 - 2350

EAST FIR APARTMENTS
BUILDING A
1105 EAST FIR
SEATTLE, WA 98122

DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	7 OF 10	TC12012





ELEV. CONTROL LOOP DETAIL

LISTER NOTES

1. ALL PIPING THIS SHEET IS TO BE LOCATED AT 6" BELOW JOIST.
2. ALL HANGERS ARE TO BE 5SW UNO.

!CAUTION! 50% REDUCED PRINTS

N

ROOF

0 8 16

SCALE 1/8" = 1'-0"

ROOF

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP. RATING	QUANTITY
○	RELIABLE	RA1425	SSU	F1FR-56	BRASS	---	5.6K	1/2"	155	6
⊖	RELIABLE	RA1425	SSU	F1FR-56	BRASS	---	5.6K	1/2"	200	2
									TOTAL THIS SHEET	8

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PURLIN
BOT	BOTTOM OF TRUSS
CTS	CUT TO SUIT
FO	FIELD ORDER
IFOW	INSIDE FACE OF WALL
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SYMBOL LEGEND

- (12 BOD) CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
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- 4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
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- HYDRAULIC CALCULATION NODE
- FLEXIBLE COUPLING
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REVISIONS

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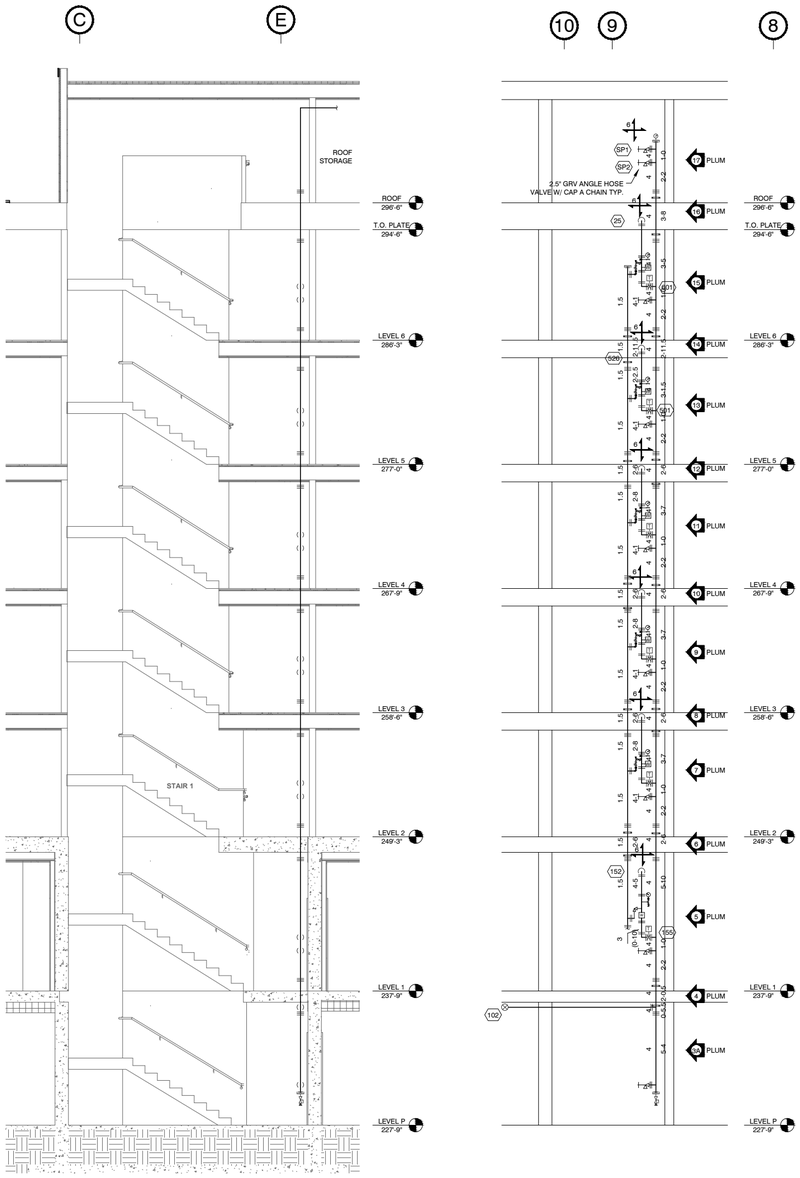
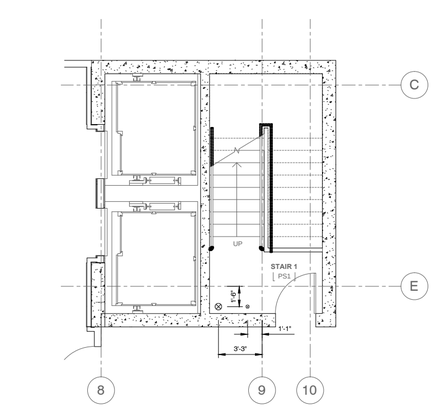
DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	8 OF 10	TC12012



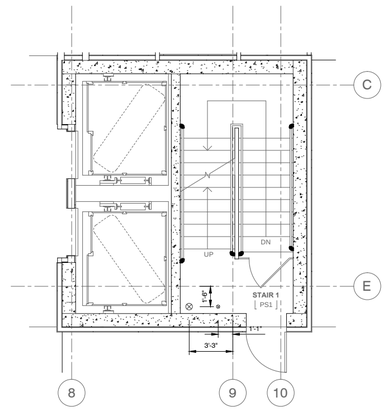
STAIR 1

SCALE 1/4"=1'-0"

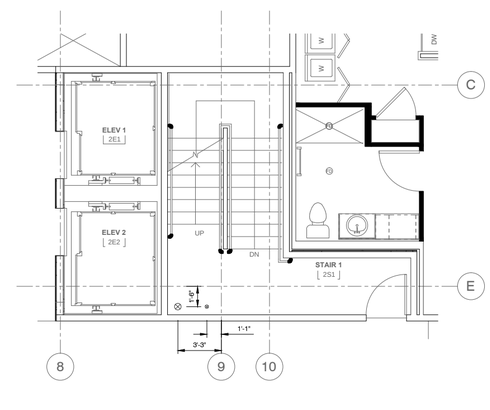
FACING SOUTH



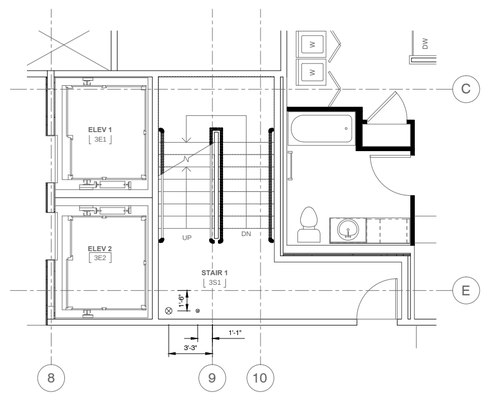
LEVEL P



LEVEL 1



LEVEL 2



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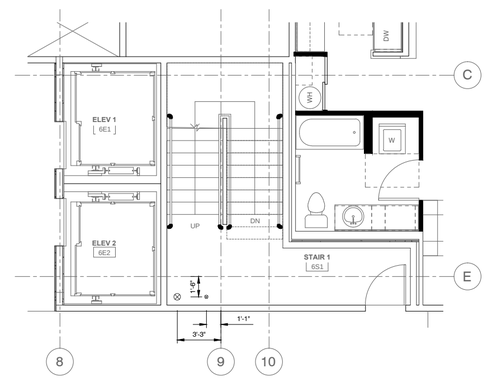
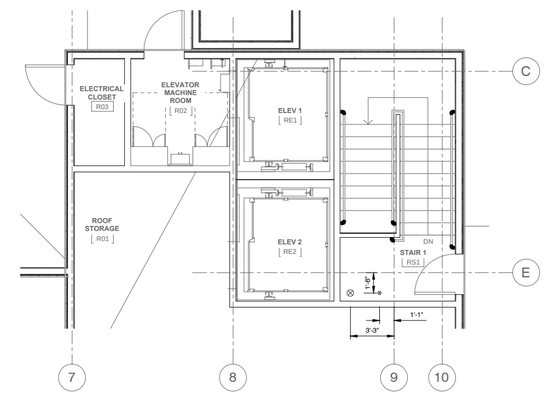


LEVEL 6



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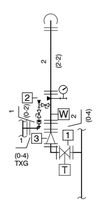
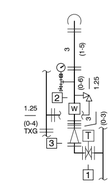


TYP. FLOOR CONTROL ASSEMBLY

FLOORS 2-6

SCALE 1/2"=1'-0"



LVL 1 FLOOR CONTROL ASSEMBLY

SCALE 1/2"=1'-0"

FITTER NOTES

1. 2.5" HOLES VALVES ARE TO BE ANGLED AT 45°

FLOOR CONTROL EQUIPMENT LIST

ITEM	QTY.	SIZE	DESCRIPTION	MANUFACTURER	MODEL #
1	1	2"	GRV BUTTERBALL CONTROL VALVE	MILWAUKEE	BBVSCS02
2	1	2"	AGF COMMERCIAL RISER PACK W/ GROOVED ENDS	AGF	8351A
	1	2"	WATER FLOW INDICATOR		
	1	1"	TEST AND MAIN DRAIN W/ SIGHT GLASS		
	1	1/4"	WATER PRESSURE GAUGE		
3	1	2"	SWING CHECK VALVE	GLOBE	RCV

FLOOR CONTROL EQUIPMENT LIST

ITEM	QTY.	SIZE	DESCRIPTION	MANUFACTURER	MODEL #
1	1	3"	BUTTERFLY CONTROL VALVE	KENNEDY	G300
2	1	3"	SFS SHOTGUN RISER INCLUDING:		
	1	---	WATER FLOW INDICATOR	POTTER ELECTRIC	VSR
	1	1.25"	TEST AND MAIN DRAIN W/ SIGHT GLASS	AGF	1000
	1	1/4"	WATER PRESSURE GAUGE	ASHCROFT	1005PXUL
3	1	3"	SWING CHECK VALVE	GLOBE	RCV

!CAUTION! 50% REDUCED PRINTS

STAIR 1 STANDPIPE

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP. RATING	QUANTITY
									TOTAL THIS SHEET	

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
BOP	BOTTOM OF PURLIN
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CTS	CUT TO SUIT
FO	FIELD ORDER
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NAS	NO AUTO. SPRINKLERS
UNO	UNLESS NOTED OTHERWISE

SYMBOL LEGEND

- 12 BOD — CENTERLINE OF PIPE TO REFERENCED POINT IN FEET AND INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- 4-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
- HANGER LOCATION
- ELEVATION ABOVE REFERENCED POINT IN FEET AND INCHES
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- FLEXIBLE COUPLING
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REVISIONS

NO.	DATE	BY	REASON FOR REVISION

CONTRACT WITH

ANDERSEN CONSTRUCTION COMPANY
900 POPLAR PL.
SEATTLE, WA 98144

PROJECT MANAGER : BEN BRODSKY
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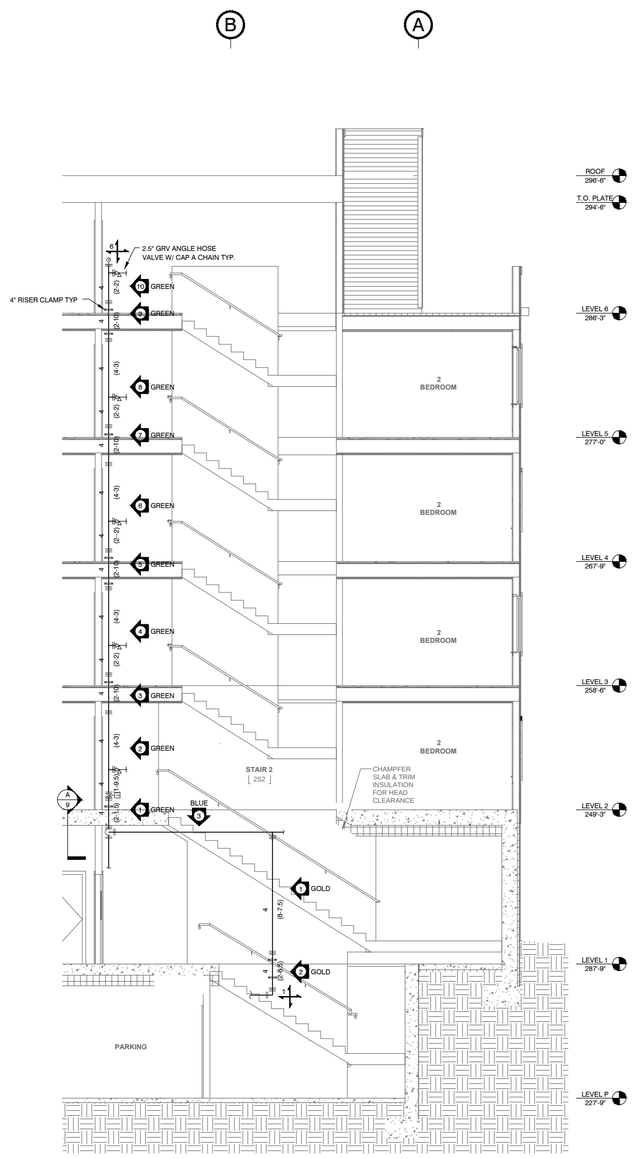
CERTIFICATE OF COMPETENCY STAMP

KEY PLAN

SMITH FIRE SYSTEMS, INC.
1106 54th AVE EAST
TACOMA, WA 98424
CONTR. REG. NO. SMITHFS13660T
Bus: (253) 926 - 1880 FAX: (253) 926 - 2350

EAST FIR APARTMENTS
BUILDING A
1105 EAST FIR
SEATTLE, WA 98122

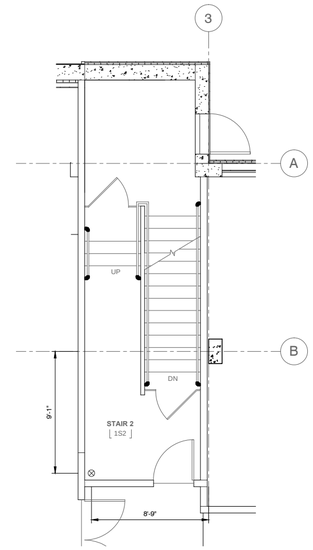
DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	9 OF 10	TC12012



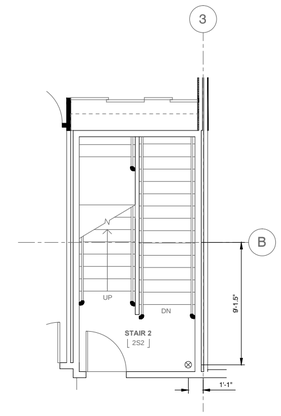
STAIR 2

SCALE 1/4" = 1'-0"

FACING WEST



LEVEL 1



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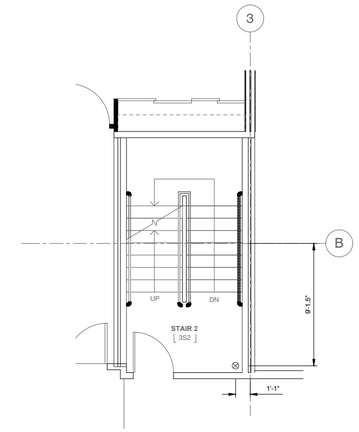

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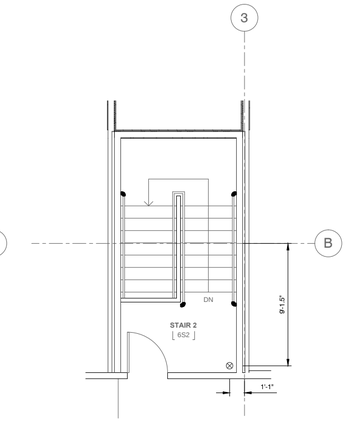

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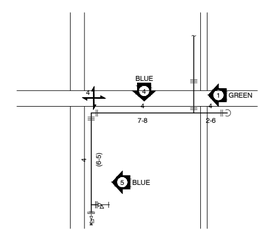

SECTION A/9

FACING NORTH

FITTER NOTES

1. 2.5" HOLES VALVES ARE TO BE ANGLED AT 45°

!CAUTION! 50% REDUCED PRINTS

STAIR 2 STANDPIPE

HANGER LEGEND

SPRINKLER LEGEND

SYM	MANUFACTURER	S.I.N.	TYPE	MODEL	SPRINKLER FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP RATING	QUANTITY
									TOTAL THIS SHEET	

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DECK
BOJ	BOTTOM OF JOIST
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CTS	CUT TO SUIT
FO	FIELD ORDER
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NAS	NO AUTO. SPRINKLERS
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SYMBOL LEGEND

- 12 / BOD — CENTERLINE OF PIPE TO REFERENCED STRUCTURE IN INCHES
- 2-WAY EARTHQUAKE SWAY BRACE LETTER INDICATES TYPE
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- HANGER LOCATION
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REVISIONS

NO.	DATE	BY	REASON FOR REVISION

CONTRACT WITH

ANDERSEN CONSTRUCTION COMPANY
900 POPLAR PL.
SEATTLE, WA 98144

PROJECT MANAGER : BEN BRODSKY
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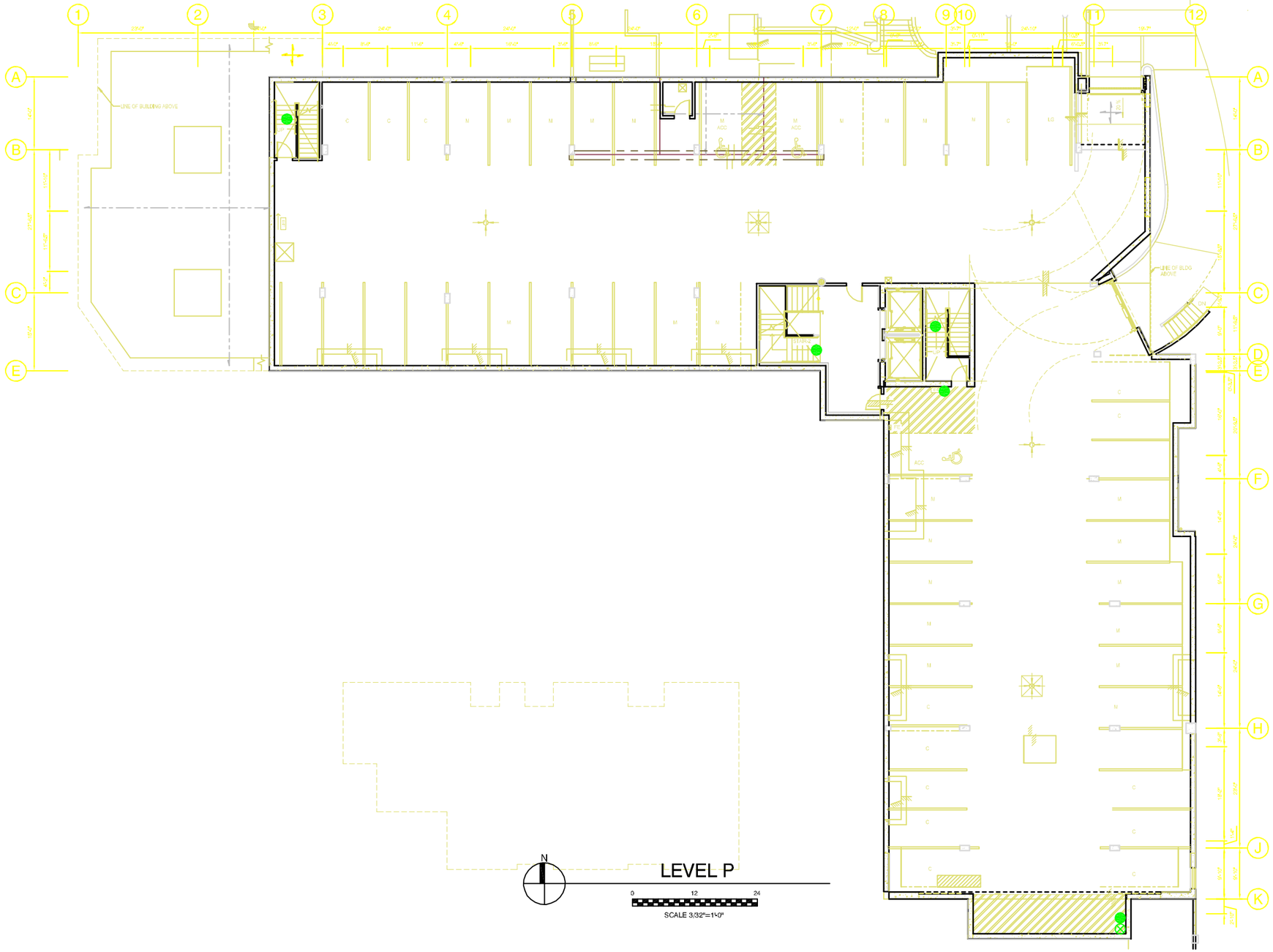
DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	B. COOK	11/20/2013	10 OF 10	TC12012



INDICATES LOW POINT DRAIN LOCATION

INDICATES INSPECTORS TEST LOCATION

!CAUTION! 50% REDUCED PRINTS

LOW POINT DRAIN PLAN

SPRINKLER LEGEND

SYM	MANUFACTURER	TYPE	MODEL	HEAD FINISH	ESCUTCHEON FINISH	ORIFICE SIZE	THREAD SIZE	TEMP. RATING	QUANTITY
								TOTAL THIS SHEET	

ABBREVIATIONS

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1105 EAST FIR
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DESIGNER	PROJECT MGR	DATE	SHEET	JOB NO.
AARON N.	BRANDON C.	12-24-14	1 OF 1	TC12012