

FAN COIL UNIT SCHEDULE													
MCA(A)	MARK	TYPE	AIRFLOW	HEATING CAPACITY	COOLING CAPACITY	REF TYPE	POWER SUPPLY			MCA	CONTROL TYPE	MANUFACTURER	MODEL
							VOLTAGE	PHASE	FREQUENCY				
FCU	1.1	1-WAY CASSETTE	300 CFM	12,000 Btu/h	13,500 Btu/h	R-410a	208 V	1	60 Hz	0.26 A		DAI0012	
FCU	1.2	1-WAY CASSETTE	300 CFM	12,000 Btu/h	13,500 Btu/h	R-410a	208 V	1	60 Hz	0.26 A		DAI0012	
FCU	1.3	1-WAY CASSETTE	300 CFM	12,000 Btu/h	13,500 Btu/h	R-410a	208 V	1	60 Hz	0.26 A		DAI0012	
FCU	1.4	1-WAY CASSETTE	300 CFM	12,000 Btu/h	13,500 Btu/h	R-410a	208 V	1	60 Hz	0.26 A		DAI0012	
FCU	1.5	4-WAY CASSETTE	300 CFM	12,000 Btu/h	13,500 Btu/h	R-410a	208 V	1	60 Hz	0.35 A		DAI0012	
FCU	1.6	4-WAY CASSETTE	300 CFM	12,000 Btu/h	13,500 Btu/h	R-410a	208 V	1	60 Hz	0.35 A		DAI0012	

- NOTES:
 1. PROVIDE DISCONNECT AT EACH CASSETTE.
 2. CASSETTES TO HAVE BUILT IN CONDENSATE PUMP WITH MIN 2" STATIC HEAD.

CONDENSING UNIT SCHEDULE																	
DESIGNATION	SERVICE	LOCATION	TYPE	CONDENSER AIR QUANTITY (CFM)	HEAT REJECTION CAPACITY (MBH)	NO. OF COMPRESSORS	COMPRESSOR TYPE	POWER INFORMATION						REFRIGERANT CHARGE (LBS)	MANUFACTURER	MODEL NO.	REMARKS
								VOLTAGE	PHASE	MOTOR	MIN. CIRCUIT AMPS (MCA)	MIN. COP DEVICE SIZE	STARTER TYPE				
CU-1	FCU 1.1-1.6	OUTSIDE	VERTICAL	4,940	60	1	SCROLL	230	1	1/3	21.4	40	B	R410A	11.2	DAI0012	1, 2, 3

- NOTES:
 1. PROVIDE EXTERIOR DISCONNECT SWITCH AT UNIT.
 2. LINESET SIZE TO BE CONFIRMED BY MANUFACTURER.
 3. PROVIDE CONCRETE PAD BENEATH CONDENSING UNIT.



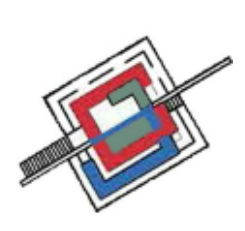
GAS FIRED MAKE UP AIR UNIT SCHEDULE								
DESIGNATION	MARK	TYPE	AIRFLOW	ENTERING AIR TEMPERATURE	LEAVING AIR TEMPERATURE	MIN HEATING CAPACITY	MANUFACTURER	MODEL
MUA	R.1	DIRECT FIRE WITH FILTER BANK	2000 CFM	-10 °F	65 °F	200000.0 Btu/h	CARRIER	62DAD012
MUA	R.2	DIRECT FIRE WITH FILTER BANK	2000 CFM	-10 °F	65 °F	200000.0 Btu/h	CARRIER	62DAD012

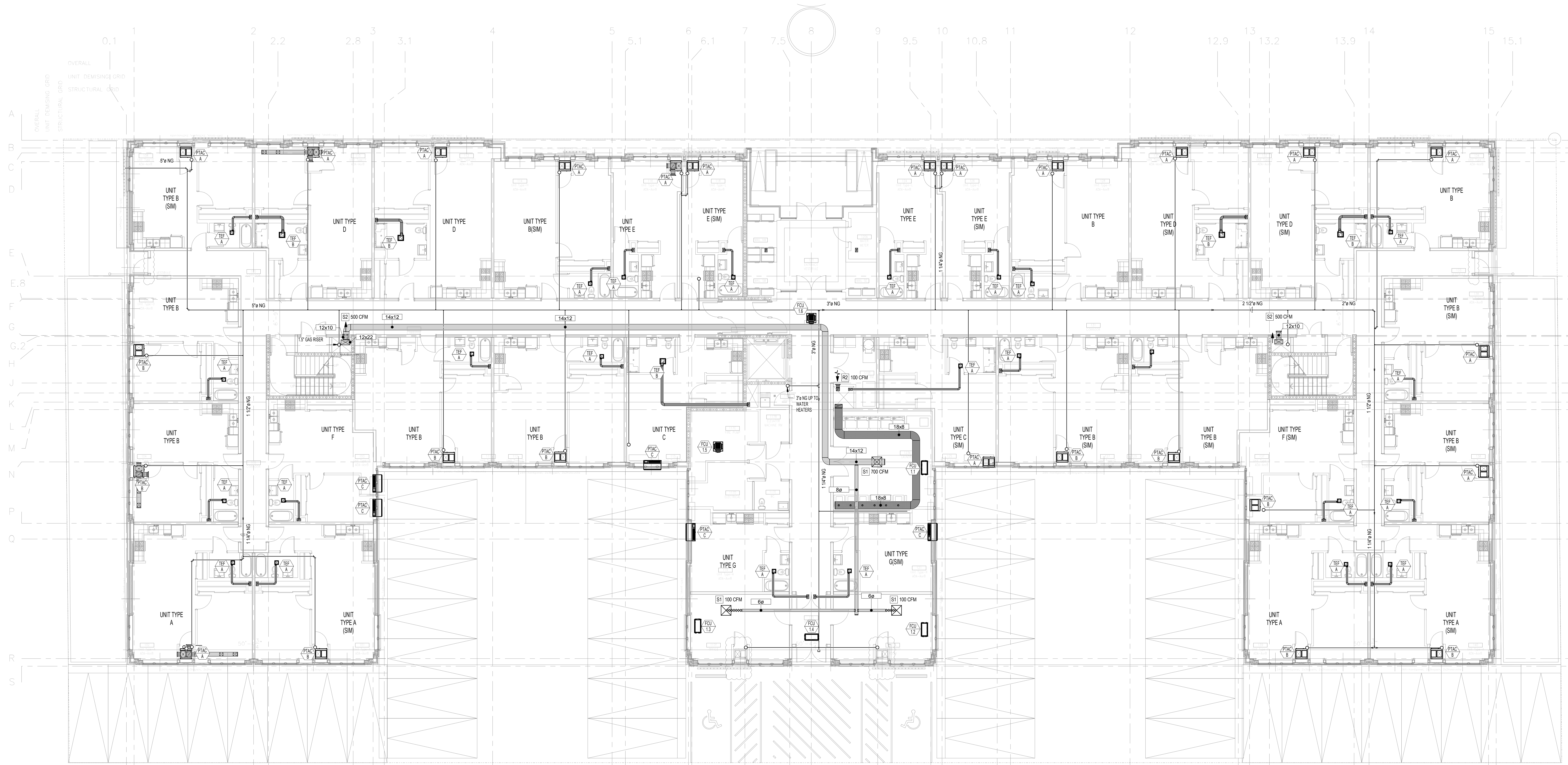
- NOTES:
 1. UNITS TO HAVE MERV 8 FILTER BANK.
 2. PROVIDE GAS TRAIN AND DRIP LEG AT GAS CONNECTION.

FAN SCHEDULE								
DESIGNATION	AIRFLOW	ESP	BHP	MOTOR SIZE	VOLTAGE	PHASE	MANUFACTURER	MODEL
EF R.1	300 CFM	0.50 in-wg	0.04 hp	0.1 hp	115 V	1	Greenheck	Model Text
EF R.2	900 CFM	0.50 in-wg	0.18 hp	0.33 hp	120 V	1	ENERVEX	EFV 250EC
TEF A	40 CFM	0.50 in-wg	0.02 hp	0.02 hp	115 V	1	Greenheck	SP-C50
TEF B	60 CFM	0.50 in-wg	0.02 hp	0.02 hp	115 V	1	Greenheck	SP-80-VG

- NOTES:
 1. PROVIDE SPRING ISOLATOR MOUNTS AND FLEX CONNECTIONS ON INLET AND OUTLET OF ALL FANS.

AIR OUTLETS AND INLETS							
DESIGNATION	DAMPER TYE	FACE SIZE	MAX PRESSURE DROP	MAX NOISE LEVEL	MANUFACTURER	MODEL	COMMENTS
R1	OBD	12X8	0.10 in-wg	-	TITUS	350RL	
R2	OBD	6X6	0.10 in-wg	15	TITUS	350RL	
S1			0.05 in-wg		TITUS	OMNI	
S2	OBD	12X10	0.10 in-wg	26	TITUS	300RL-HD	
S3	OBD	12X8	0.10 in-wg	20	TITUS	300RL-HD	
S4	OBD	8X6	0.10 in-wg	20	TITUS	300RL-HD	

M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108 	CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com 	ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312-578-0550 (US), +91-987-021-9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER  Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 133 South LaSalle Street, Suite 3950 Chicago, Illinois 60603 312.754.7300 fax: 312.754.7301 www.sgh.com	PROJECT: 5525 W DIVERSEY AVENUE PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603 DRAWING TITLE: MECHANICAL SCHEDULES	REV.	BY	DESCRIPTION	DATE	DRAWING NO.
				11		ISSUE FOR PROGRESS	05/12/2016	M-003
10								
09								
08								
07								
06								
05								
04								
03								
02								
01								



M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
 135 South La Salle Street
 Chicago, IL 60604
 T: 312 982 2108

CONTRACTOR:
KINZIE CONSTRUCTION GROUP
 116 W Illinois St
 Chicago, IL 60654
 T: (312) 464-8800
 W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
 29 E Madison Street, Suite 1309
 Chicago, IL 60602 (USA)
 69A Nepeansea Road, Manisha 1st Flr
 Mumbai 400006 (INDIA)
 T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
 E: contact@csa-partners.com
 W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER
 Engineering of Structures
 and Building Enclosures
 Simpson Gumpertz & Heger Inc.
 133 South LaSalle Street, Suite 3500
 Chicago, Illinois 60603
 312.754.7300
 fax: 312.754.7301
 www.sgh.com

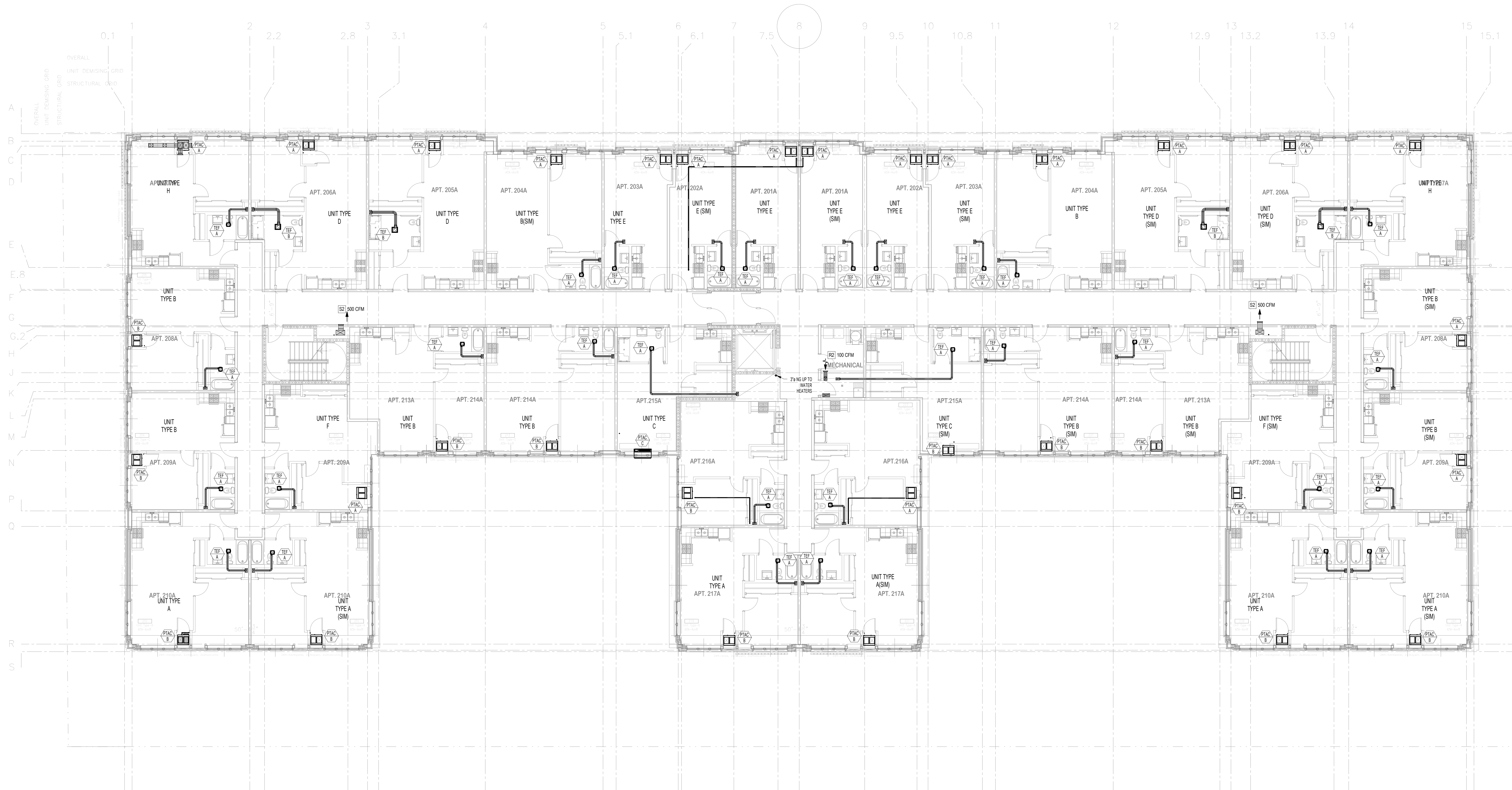
PROJECT: 5525 W DIVERSEY AVENUE
 PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

DRAWING TITLE: **MECHANICAL FIRST FLOOR PLAN**

SCALE: 1/8" = 1'-0"
 DATE OF ISSUE: 05/12/2016
 OWNER'S SIGNATURE:

DRAWN BY: AJS
 REVIEWED BY: DFC
 CONSULTANT'S SIGNATURE:

REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11				
10		ISSUE FOR PROGRESS	05/12/2016	
09				
08				
07				
06				
05				
04				
03				
02				
01				



M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
 135 South La Salle Street
 Chicago, IL 60604
 T: 312 982 2108

CONTRACTOR:
KINZIE CONSTRUCTION GROUP
 116 W Illinois St
 Chicago, IL 60654
 T: (312) 464-8800
 W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
 29 E Madison Street, Suite 1309
 Chicago, IL 60602 (USA)
 69A Nepeansea Road, Manisha 1st Flr
 Mumbai 400006 (INDIA)
 T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
 E: contact@csa-partners.com
 W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER
 Engineering of Structures
 and Building Enclosures
 Simpson Gumpertz & Heger Inc.
 133 South LaSalle Street, Suite 3950
 Chicago, Illinois 60603
 312.754.7300
 fax: 312.754.7301
 www.sgh.com

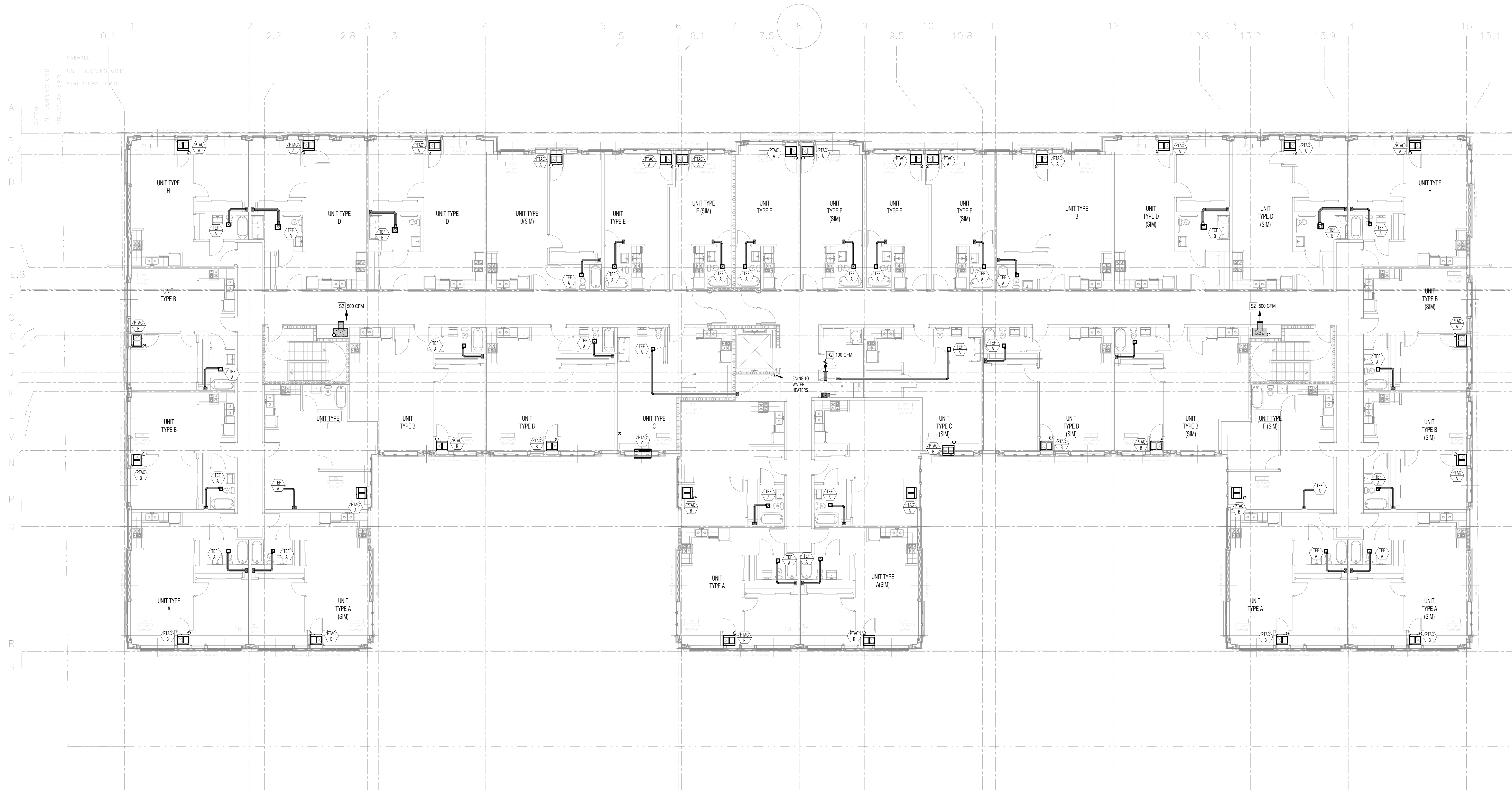
PROJECT: 5525 W DIVERSEY AVENUE
 PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

DRAWING TITLE: **MECHANICAL SECOND FLOOR PLAN**

SCALE: 1/8" = 1'-0"
 DATE OF ISSUE: 05/12/2016
 OWNER'S SIGNATURE:

DRAWN BY: AJS
 REVIEWED BY: DFC
 CONSULTANT'S SIGNATURE:

REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11				
10		ISSUE FOR PROGRESS	05/12/2016	
09				
08				
07				
06				
05				
04				
03				
02				
01				



M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
 135 South La Salle Street
 Chicago, IL 60604
 T: 312 982 2108

CONTRACTOR:
KINZIE CONSTRUCTION GROUP
 116 W Illinois St
 Chicago, IL 60654
 T: (312) 464-8800
 W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
 29 E Madison Street, Suite 1309
 Chicago, IL 60602 (USA)
 69A Nepeansea Road, Manisha 1st Flr
 Mumbai 400006 (INDIA)
 T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
 E: contact@csa-partners.com
 W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER
 Engineering of Structures
 and Building Enclosures
 Simpson Gumpertz & Heger Inc. 312.754.7300
 133 South LaSalle Street, Suite 3050 fax: 312.754.7301
 Chicago, Illinois 60603 www.sgh.com

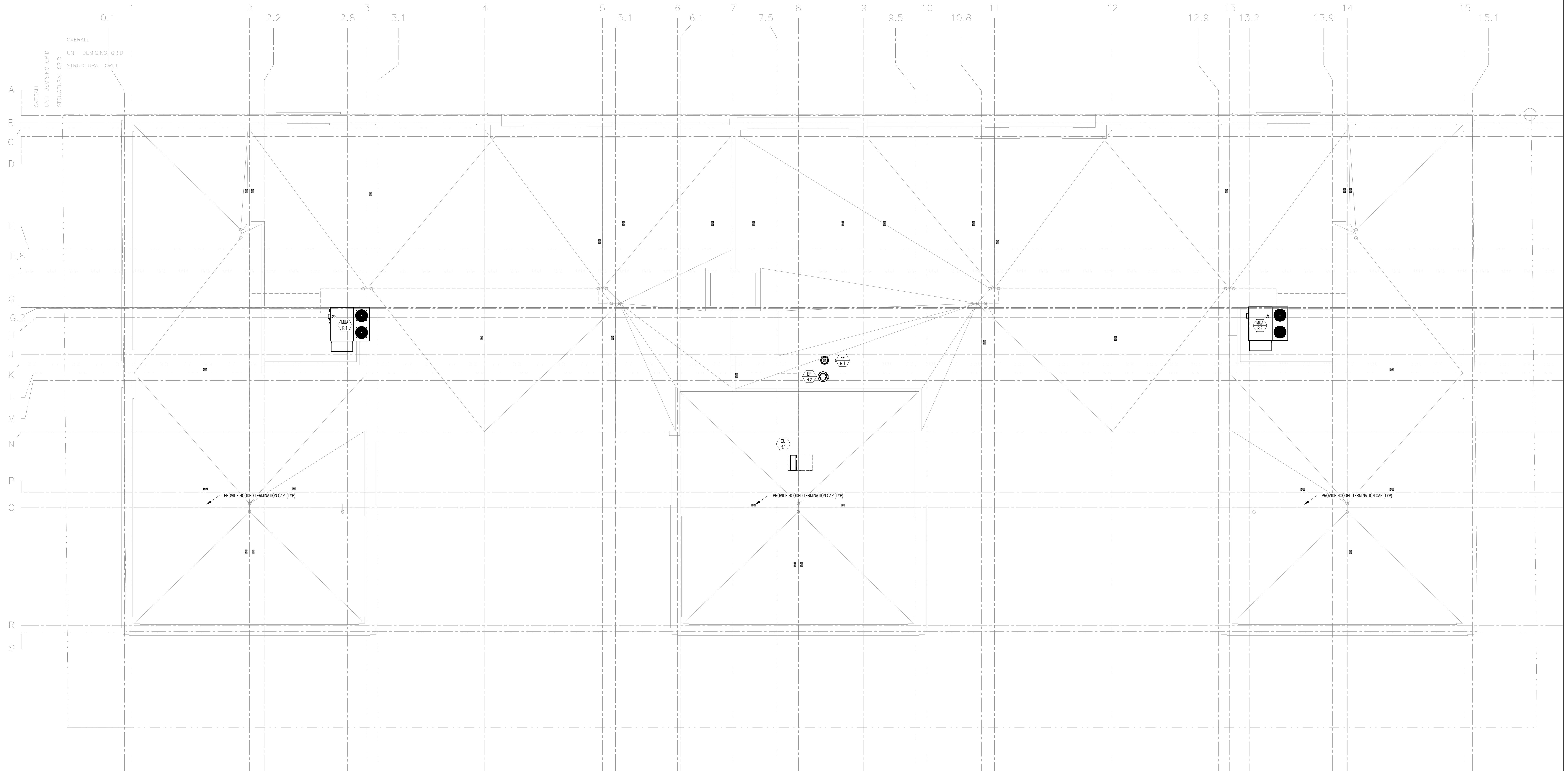
PROJECT: 5525 W DIVERSEY AVENUE
 PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

DRAWING TITLE: **MECHANICAL THIRD FLOOR PLAN**

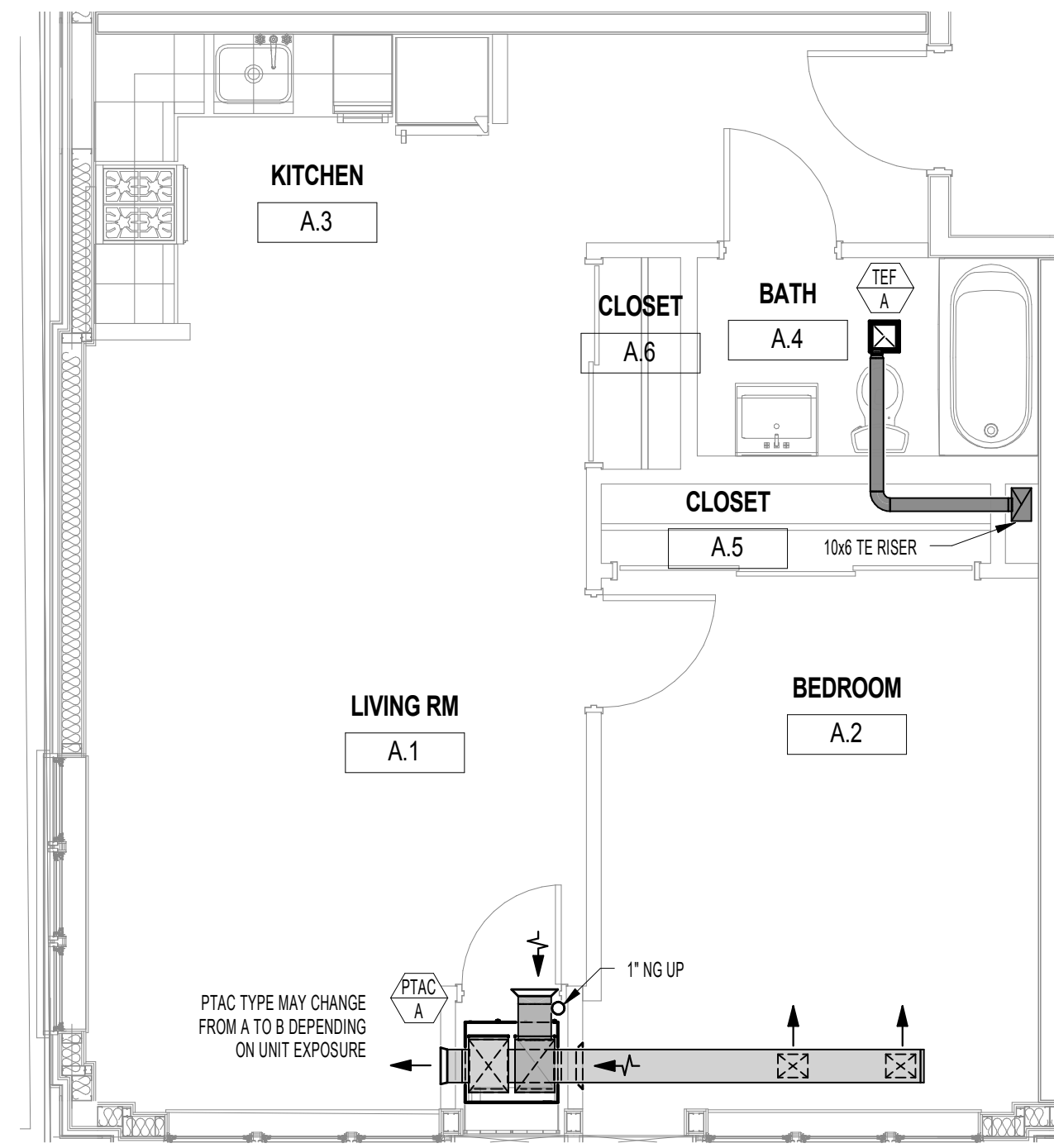
SCALE: 1/8" = 1'-0"
 DATE OF ISSUE: 05/12/2016
 OWNER'S SIGNATURE:

DRAWN BY: AJS
 REVIEWED BY: DFC
 CONSULTANT'S SIGNATURE:

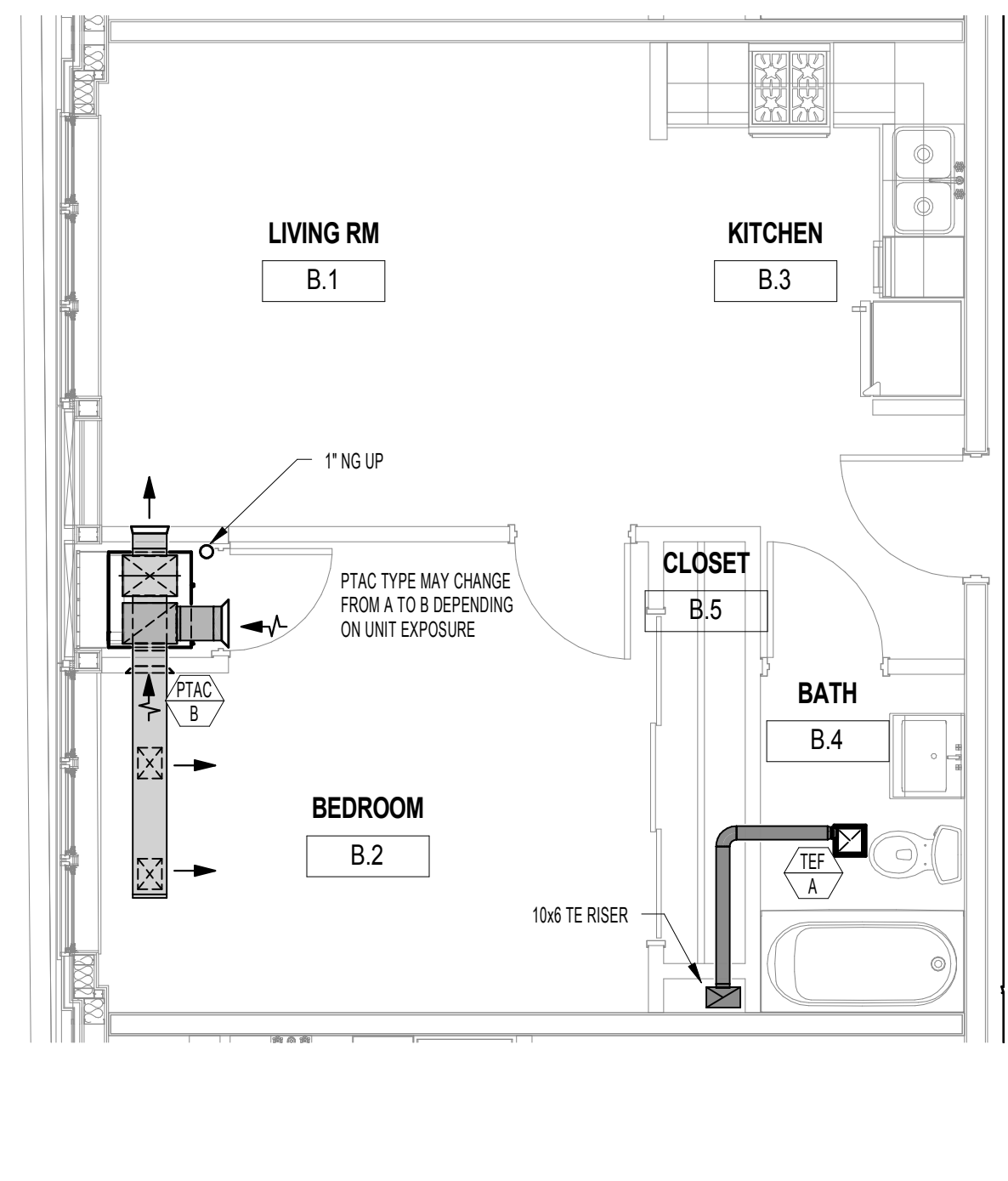
REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11				
10		ISSUE FOR PROGRESS	05/12/2016	
09				
08				
07				
06				
05				
04				
03				
02				
01				



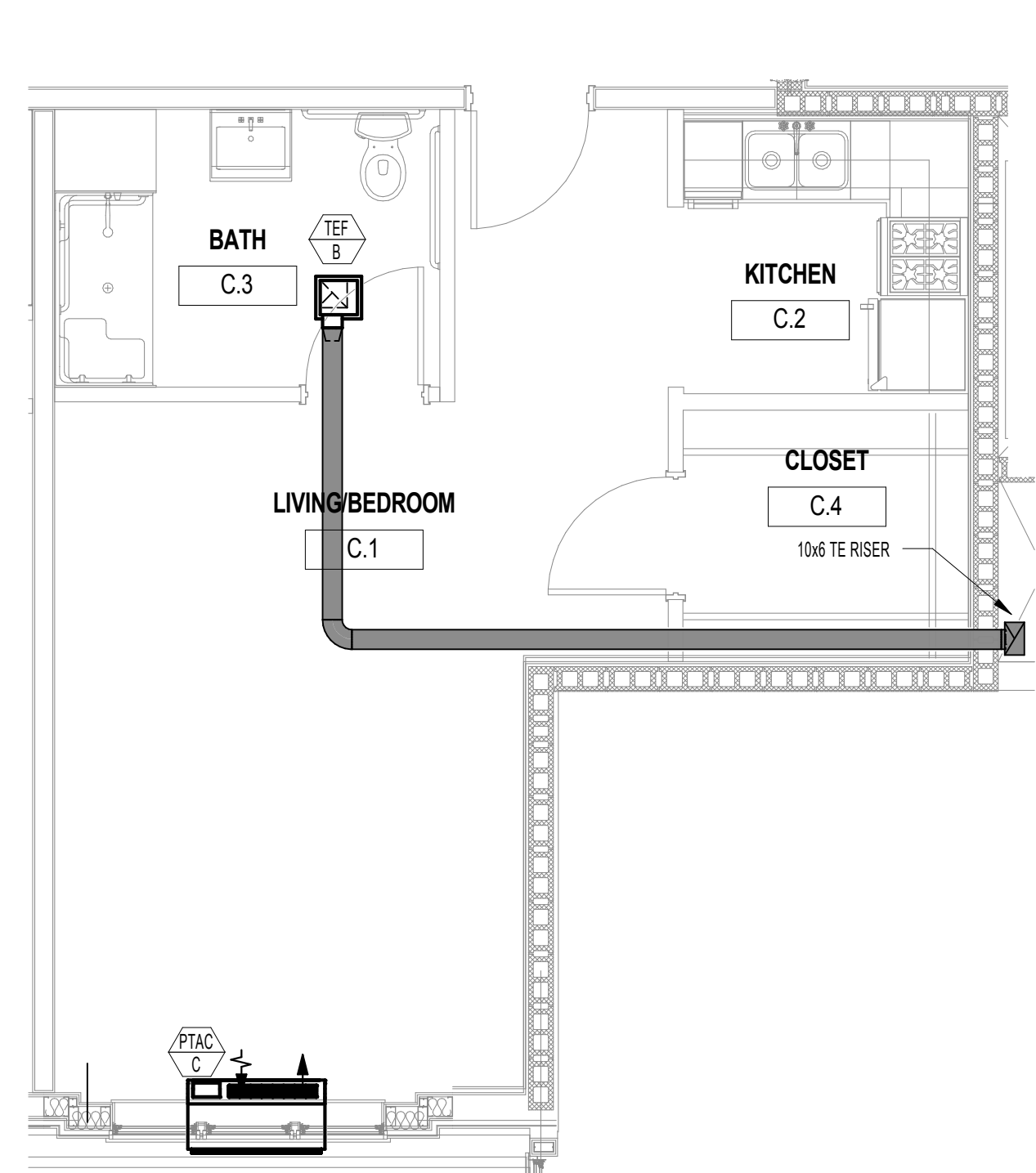
<p>M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108</p> <p>CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com</p>	<p>ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312-578-0550 (US), +91-987-021-9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com</p> <p>STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 133 South LaSalle Street, Suite 3050 Chicago, Illinois 60603 312.754.7300 fax: 312.754.7301 www.sgh.com</p>	<p>PROJECT: 5525 W DIVERSEY AVENUE PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603</p> <p>DRAWING TITLE: MECHANICAL ROOF PLAN</p> <p>SCALE: 1/8" = 1'-0" DATE OF ISSUE: 05/12/2016 OWNER'S SIGNATURE:</p>	<p>DRAWN BY: AJS REVIEWED BY: DFC CONSULTANT'S SIGNATURE:</p>	<table border="1"> <thead> <tr> <th>REV.</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>11</td> <td></td> <td>ISSUE FOR PROGRESS</td> <td>05/12/2016</td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> </tr> <tr> <td>09</td> <td></td> <td></td> <td></td> </tr> <tr> <td>08</td> <td></td> <td></td> <td></td> </tr> <tr> <td>07</td> <td></td> <td></td> <td></td> </tr> <tr> <td>06</td> <td></td> <td></td> <td></td> </tr> <tr> <td>05</td> <td></td> <td></td> <td></td> </tr> <tr> <td>04</td> <td></td> <td></td> <td></td> </tr> <tr> <td>03</td> <td></td> <td></td> <td></td> </tr> <tr> <td>02</td> <td></td> <td></td> <td></td> </tr> <tr> <td>01</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REV.	BY	DESCRIPTION	DATE	11		ISSUE FOR PROGRESS	05/12/2016	10				09				08				07				06				05				04				03				02				01				<p>DRAWING NO. M-104</p>
REV.	BY	DESCRIPTION	DATE																																																		
11		ISSUE FOR PROGRESS	05/12/2016																																																		
10																																																					
09																																																					
08																																																					
07																																																					
06																																																					
05																																																					
04																																																					
03																																																					
02																																																					
01																																																					



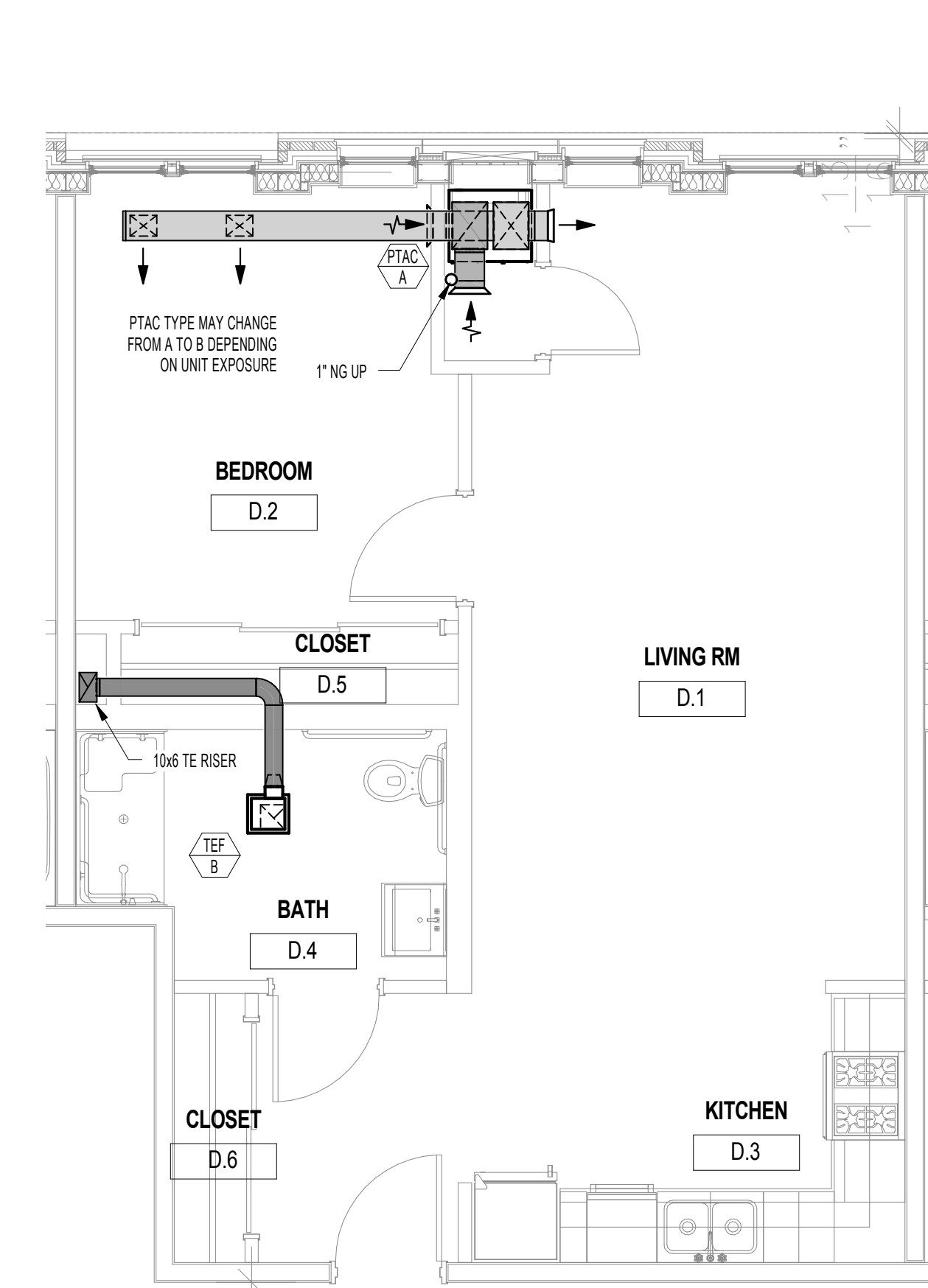
1 ENLARGED MECHANICAL PLAN - TYPE A
1/4" = 1'-0"



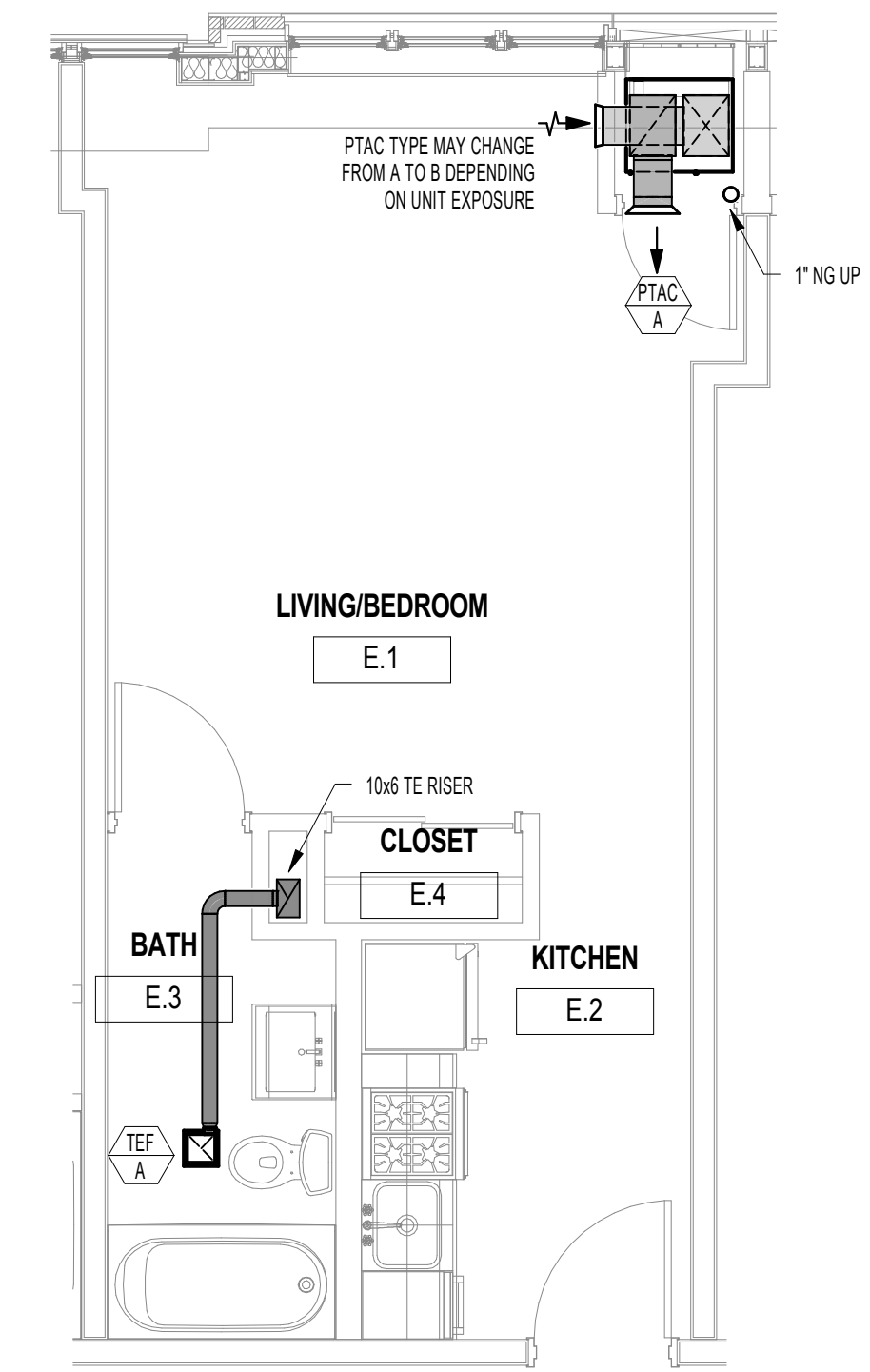
2 ENLARGED MECHANICAL PLAN - TYPE B
1/4" = 1'-0"



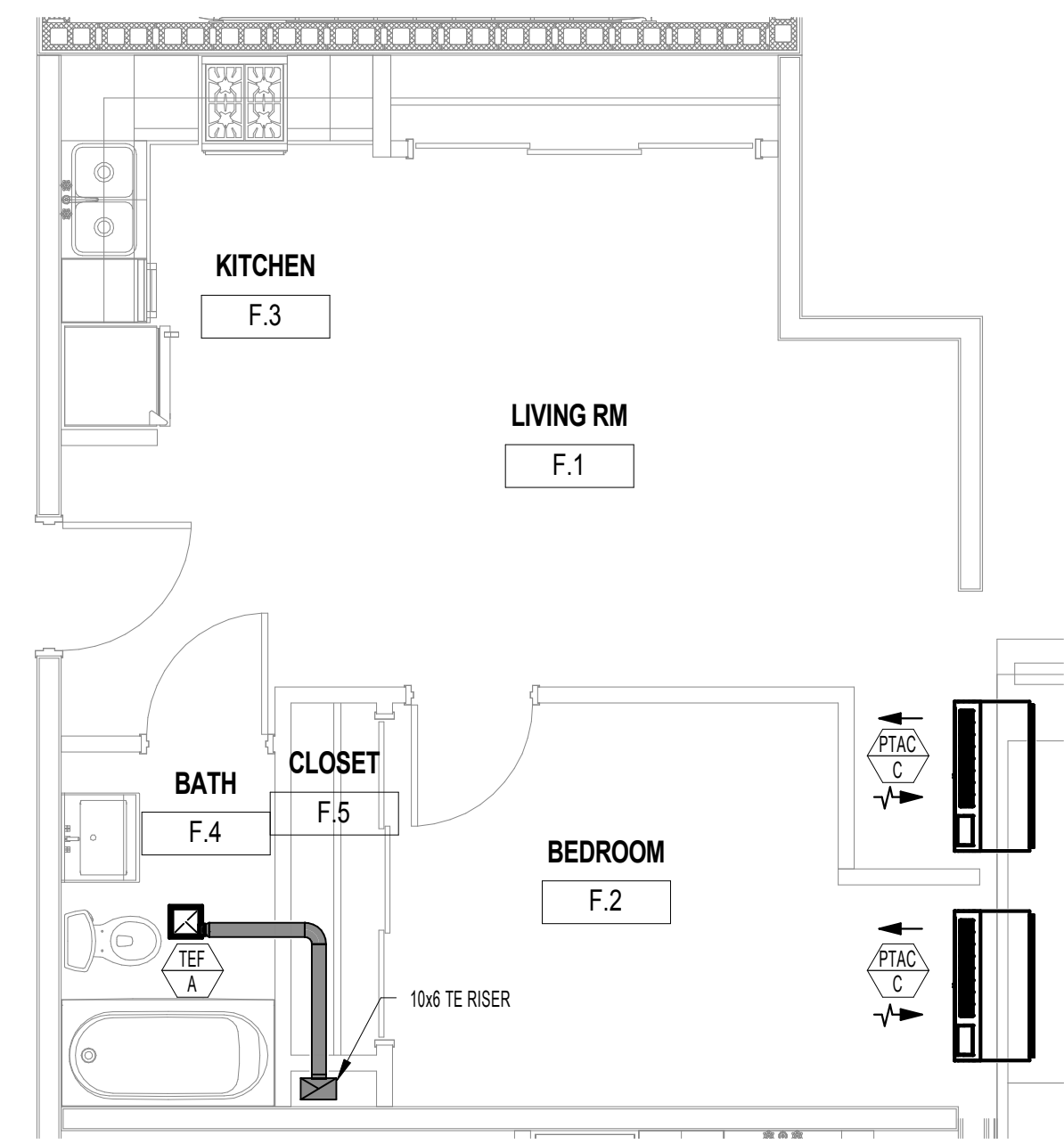
3 ENLARGED MECHANICAL PLAN - TYPE C
1/4" = 1'-0"



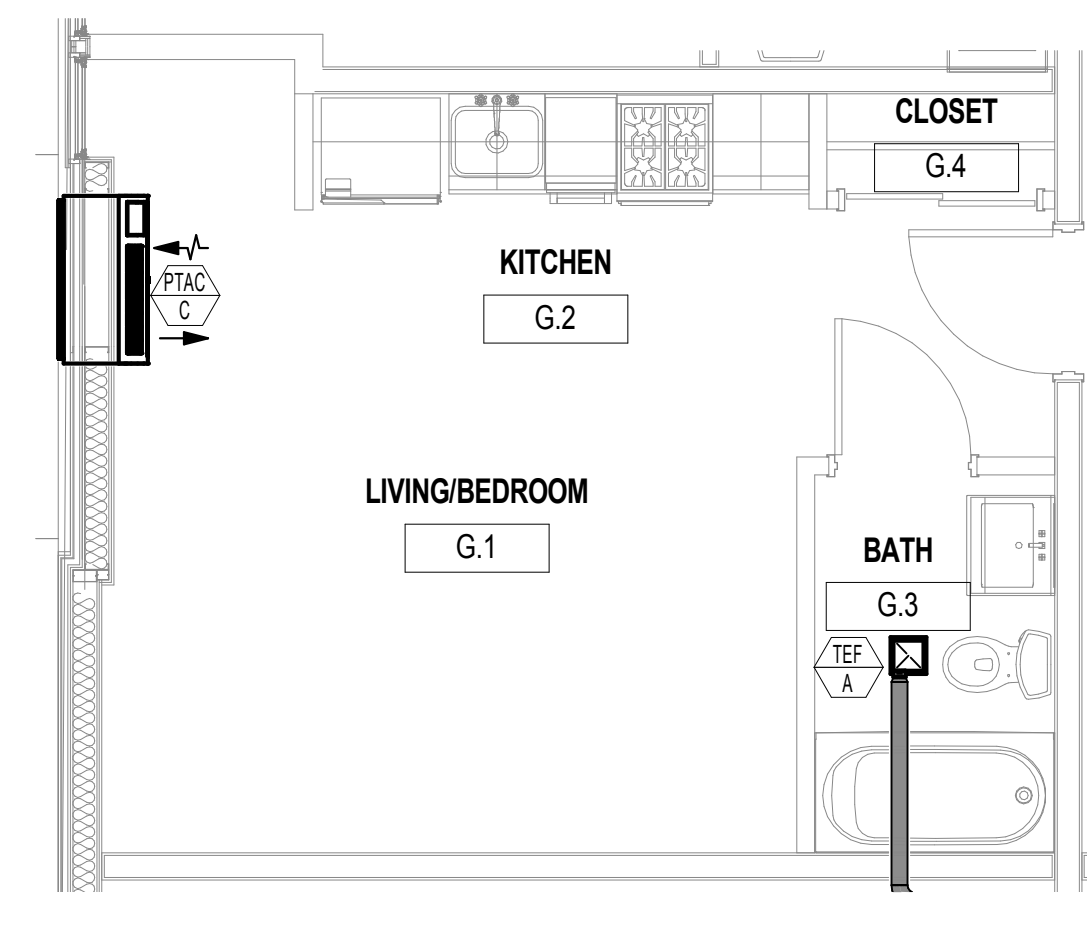
4 ENLARGED MECHANICAL PLAN - TYPE D
1/4" = 1'-0"



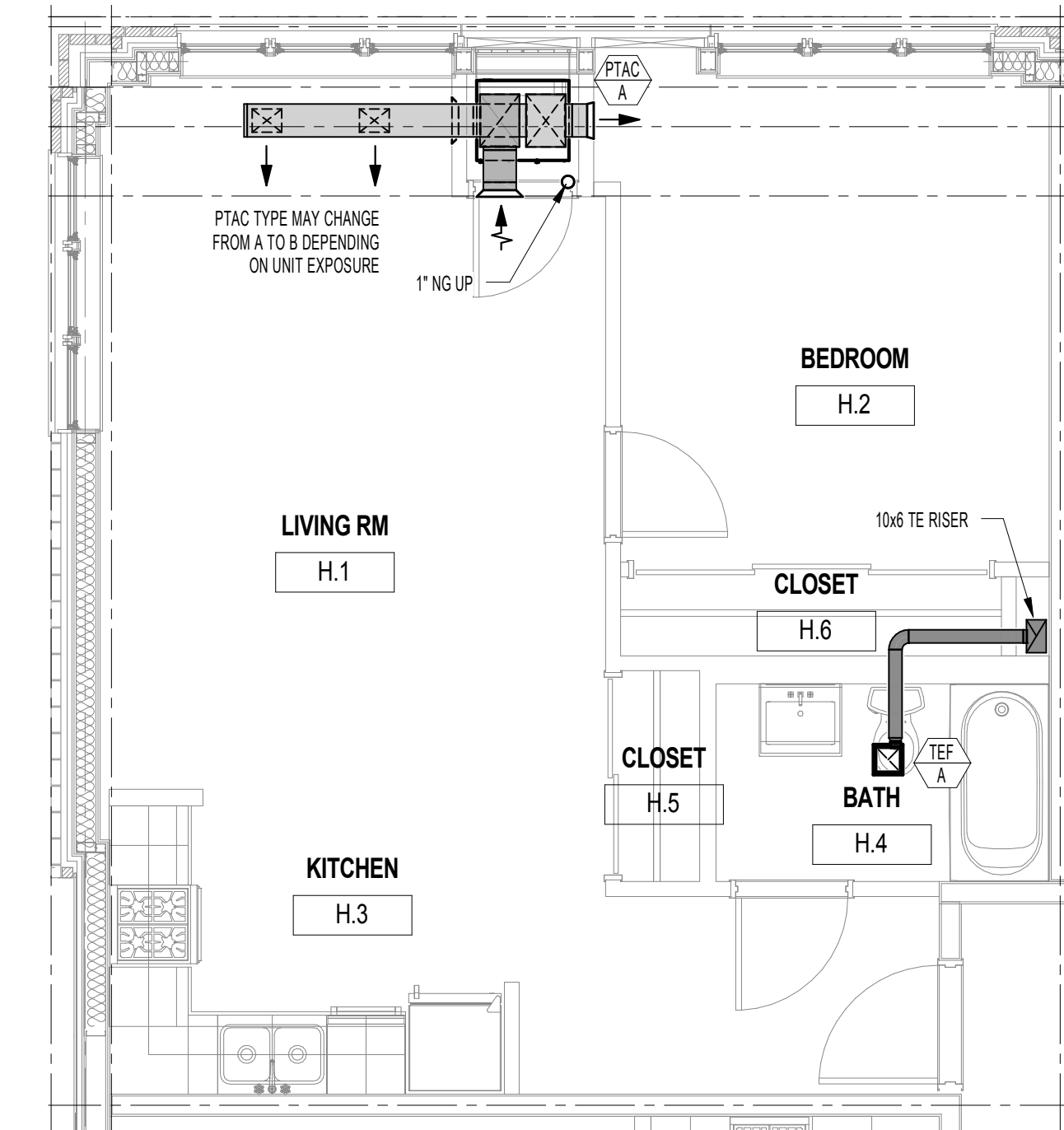
5 ENLARGED MECHANICAL PLAN - TYPE E
1/4" = 1'-0"



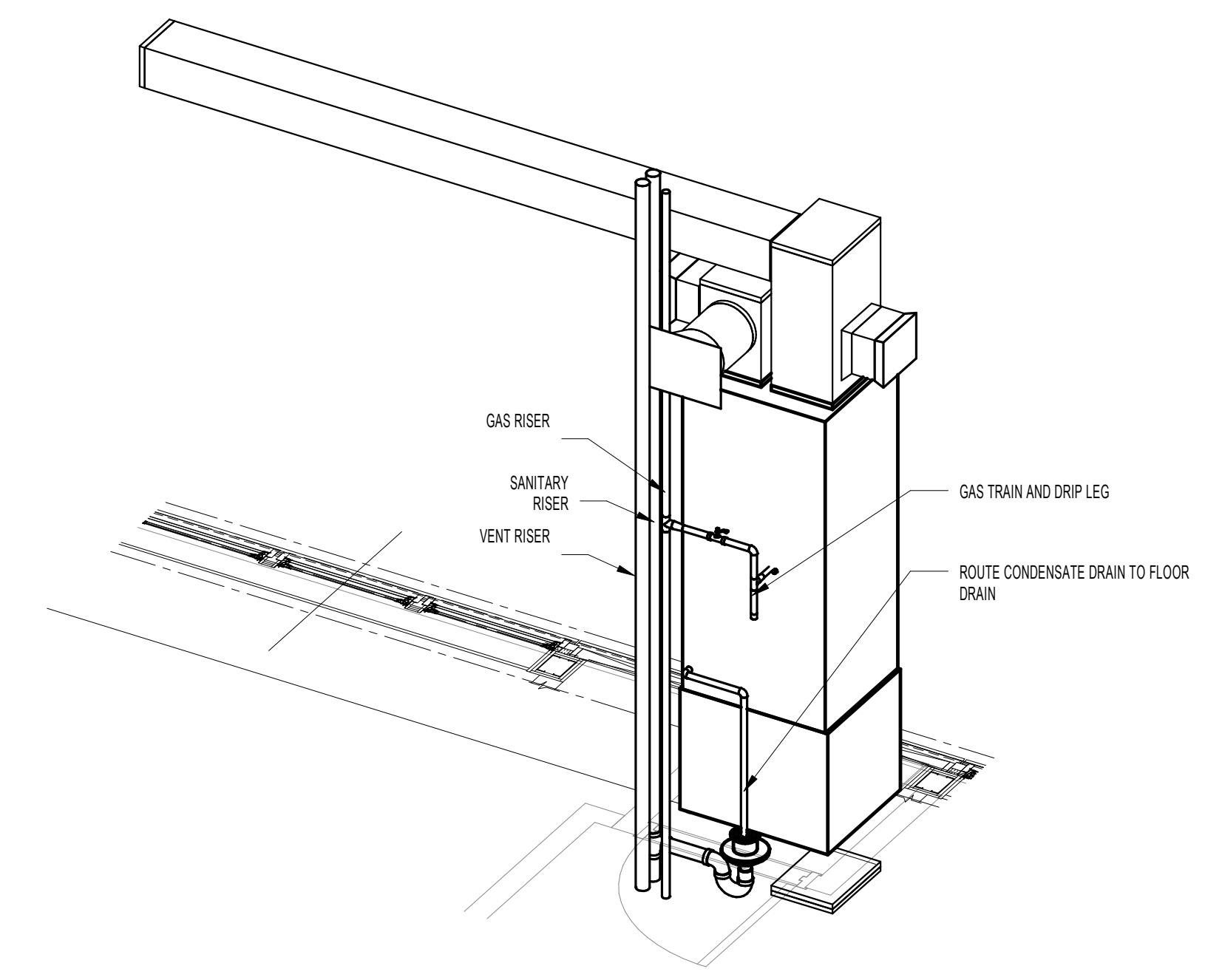
7 ENLARGED MECHANICAL PLAN - TYPE F
1/4" = 1'-0"



6 ENLARGED MECHANICAL PLAN - TYPE G
1/4" = 1'-0"



8 ENLARGED MECHANICAL PLAN - TYPE H
1/4" = 1'-0"



9 MAGIC-PAK DETAIL

DESIGNATION	SERVICE	NOMINAL AIRFLOW	EXTERNAL STATIC PRESSURE	FAN TYPE	MOTOR SIZE	NOMINAL COOLING CAPACITY	CONDENSER INFORMATION			HEATING INFORMATION			ELECTRICAL DATA				Comments		
							REFRIGERANT TYPE	NO. OF COMPRESSORS	TYPE	HEATING INPUT	HEATING OUTPUT	HEATING EFFICIENCY	VOLTAGE	PHASE	FULL LOAD AMPS	MAX OCP		Manufacturer	Model
PTAC A	APARTMENT	400 CFM	0.10 in-wg	CENTRIFUGAL	0.33 hp	12,000 Btu/h	R-410a	1	HERMETIC	36,000 Btu/h	28,000 Btu/h	80%	208 V	1	12 A	15 A	Magic-Pak	36MGE4-09-121NP1	
PTAC B	APARTMENT	600 CFM	0.10 in-wg	CENTRIFUGAL	0.33 hp	18,000 Btu/h	R-410a	1	HERMETIC	36,000 Btu/h	28,800 Btu/h	80%	208 V	1	15 A	20 A	Magic-Pak	36MGE4-09-181NP1	
PTAC C						12,000 Btu/h	R-410a				10,500 Btu/h		208 V		20 A		LG Electronics	LP123CD3B	

M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
135 South La Salle Street
Chicago, IL 60604
T: 312 982 2108

CONTRACTOR:
KINZIE CONSTRUCTION GROUP
116 W Illinois St
Chicago, IL 60654
T: (312) 464-8800
W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
29 E Madison Street, Suite 1309
Chicago, IL 60602 (USA)
69A Nepeansea Road, Manisha 1st Flr
Mumbai 400006 (INDIA)
T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
E: contact@csa-partners.com
W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER
Engineering of Structures
Specialty Building Enclosures
Simpson Gumpertz & Heger Inc. 312.754.7300
133 South LaSalle Street, Suite 3950 Chicago, Illinois 60603 fax: 312.754.7301 www.sgh.com

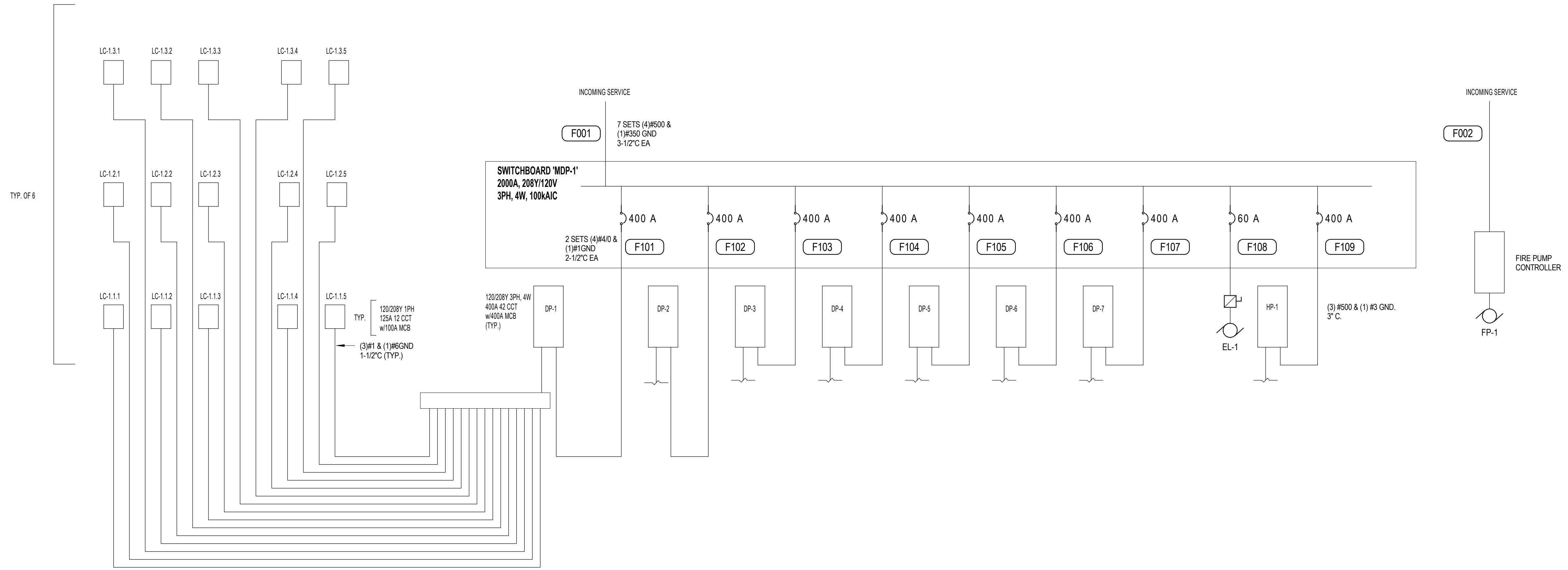
PROJECT: 5525 W DIVERSEY AVENUE
PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

DRAWING TITLE: MECHANICAL ENLARGED PLANS

SCALE: 1/4" = 1'-0"
DATE OF ISSUE: 05/12/2016
OWNER'S SIGNATURE:

DRAWN BY: Author
REVIEWED BY: Checker
CONSULTANT'S SIGNATURE:

REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11		ISSUE FOR PROGRESS	05/12/2016	
10				
09				
08				
07				
06				
05				
04				
03				
02				
01				



1 ELECTRICAL SINGLE LINE DIAGRAM
1/8" = 1'-0"

MDP-1 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY - MULTIFAMILY OPTIONAL METHOD			
BUILDING DESCRIPTION: 3-STORY MULTIFAMILY RESIDENTIAL BUILDING 70,280 GSF, 98 TOTAL STUDIO AND 16R UNITS GAS-FIRED DX ROOFTOP CORRIDOR MAKE-UP AHUS CENTRAL GAS DOMESTIC HOT WATER CENTRAL GAS DRYERS	TYPICAL UNITS: ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT ELECTRIC STOVE CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT) CENTRAL GAS DRYERS (NOT IN UNIT)		
GENERAL LIGHTING & RECEPTACLE	60,260 x 3W / SF	180,780	NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS	196 x 1500 W	294,000	NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS	0 x 1500 W	0	NEC 220-16(B), 220-4(C)
TOTAL GENERAL LIGHTING AND RECEPTACLE		474,780	WATTS
FASTENED IN PLACE (FIXED) APPLIANCES	1 KW = 1000 VA		NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC
WATER HEATER	0A x 120V	0	
COMPACTOR	0A x 120V	0	
DISHWASHER	(98) 12A x 120V	141,120	
DISPOSAL	0 x 115V	0	NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD	(98) 12A x 120V	141,120	
TOTAL FASTENED-IN-PLACE APPLIANCES		282,240	WATTS
CLOTHES DRYERS	0 x 208V	0	WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS, COOKTOPS	(98) RANGE, 9.1KW (UNDER 12KW)	891,800	WATTS
HEATING OR AIR-CONDITIONING (LARGER OF HAC)	(98) x 2580	252,840	WATTS NEC 220-19
TOTAL CONNECTED LOAD		1,901,660	
TOTAL CALCULATED LOAD (UNITS)	23	1,931,660	437,382 WATTS NEC TABLE 220.84, 62 UNITS AND OVER
HOUSE GENERAL LIGHTING & RECEPTACLE	10000 x 3 WSF	30000	
HOUSE LAUNDRY BRANCH CIRCUITS	8 x 1500 VA	12000	
HOUSE EQUIPMENT	15 HP	15000	
HOUSE CLOTHES DRYERS	0 (NG) x 1997 VA	0	NEC 220-430-24
HOUSE HVAC EQUIPMENT	23 x (2) x 36A x 208V x 1.732	34,275	
TOTAL VA DEMAND LOAD		528,657	
MIN AMPERES FOR 120/208V 3PH SERVICE	TOTAL VA / 208 / 1.732	1467	AMPS
MIN SIZE FOR SERVICE CONDUCTORS	(x 1.25)	1834	AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS	(7) SETS 4#500 & 1#500 GND 3-1/2" EA		NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16

3 MDP-1 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY
1/8" = 1'-0"

<p>M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108</p> <p>CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com</p>	<p>ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312-578-0550 (US), +91-987-021-9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com</p> <p>STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER Engineering of Structures & Civil Building Enclosures Simpson Gumpertz & Heger Inc. 133 South LaSalle Street, Suite 3950 Chicago, Illinois 60603 312.754.7300 fax: 312.754.7301 www.sgh.com</p>	<p>PROJECT: 5525 W DIVERSEY AVENUE PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603</p> <p>DRAWING TITLE: ELECTRICAL SCHEDULES</p> <p>SCALE: 1/8" = 1'-0" DATE OF ISSUE: 05/12/2016 OWNER'S SIGNATURE:</p>	<p>REV. BY DESCRIPTION DATE DRAWING NO.</p> <p>11 ISSUE FOR PROGRESS 05/12/2016</p> <p>10</p> <p>09</p> <p>08</p> <p>07</p> <p>06</p> <p>05</p> <p>04</p> <p>03</p> <p>02</p> <p>01</p>	<p>E-001</p>
			<p>DILIGENT DESIGN GROUP</p> <p>KINZIE</p>	

DP-1 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY - MULTI-FAMILY OPTIONAL METHOD
BUILDING DESCRIPTION: 3-STOREY MULTI-UNIT RESIDENTIAL BUILDING 70,260 GSF, 98 TOTAL STUDIO AND 1BR UNITS
TYPICAL UNITS: ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT, ELECTRIC STOVE, CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT), CENTRAL GAS DRYERS (NOT IN UNIT)
GENERAL LIGHTING & RECEPTACLE 8940 x 3W / SF 26,820 NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS 30 x 1500 W 45,000 NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS 0 x 1500 W 0 NEC 220-16(B), 220-4(C)
TOTAL GENERAL LIGHTING AND RECEPTACLE 71,820 WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC
WATER HEATER 0A x 120V 0
COMPACTOR 0A x 120V 0
DISHWASHER (15) 12A x 120V 21,600
DISPOSAL 0 x 115V 0 NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD (15) 12A x 120V 21,600
TOTAL FASTENED-IN-PLACE APPLIANCES 43,200 WATTS
CLOTHES DRYERS 0 x 208V 0 WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS , COOKTOPS (15) RANGE, 9.1KW (UNDER 12KW) 136,500 WATTS
HEATING OR AIR-CONDITIONING (LARGER OF HIAC) (6) x 2580, (9) x 1997 33,447 WATTS NEC 220-19
TOTAL CONNECTED LOAD 284,967
TOTAL CALCULATED LOAD (UNITS) 40 284,967 113,987 NEC TABLE 220.84, 14-15 UNITS
MIN AMPERES FOR 120/208V 3PH SERVICE TOTAL VA / 208 / 1.732 316 AMPS
MIN SIZE FOR SERVICE CONDUCTORS (x 1.25) 395 (NS) AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS 2 SETS (4#250 & 1#16GRD 3°C EA NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR PARALLEL #250 NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC) 1 AWG NEC TABLE 250-94

DP-2 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY - MULTI-FAMILY OPTIONAL METHOD
BUILDING DESCRIPTION: 3-STOREY MULTI-UNIT RESIDENTIAL BUILDING 70,260 GSF, 98 TOTAL STUDIO AND 1BR UNITS
TYPICAL UNITS: ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT, ELECTRIC STOVE, CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT), CENTRAL GAS DRYERS (NOT IN UNIT)
GENERAL LIGHTING & RECEPTACLE 8364 x 3W / SF 25,092 NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS 24 x 1500 W 36,000 NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS 0 x 1500 W 0 NEC 220-16(B), 220-4(C)
TOTAL GENERAL LIGHTING AND RECEPTACLE 61,092 WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC
WATER HEATER 0A x 120V 0
COMPACTOR 0A x 120V 0
DISHWASHER (12) 12A x 120V 17,280
DISPOSAL 0 x 115V 0 NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD (12) 12A x 120V 17,280
TOTAL FASTENED-IN-PLACE APPLIANCES 34,560 WATTS
CLOTHES DRYERS 0 x 208V 0 WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS , COOKTOPS (12) RANGE, 9.1KW (UNDER 12KW) 109,200 WATTS
HEATING OR AIR-CONDITIONING (LARGER OF HIAC) (6) x 2580, (6) x 1997 27,462 WATTS NEC 220-19
TOTAL CONNECTED LOAD 232,314
TOTAL CALCULATED LOAD (UNITS) 41 232,314 95,249 NEC TABLE 220.84, 12-13 UNITS
MIN AMPERES FOR 120/208V 3PH SERVICE TOTAL VA / 208 / 1.732 264 AMPS
MIN SIZE FOR SERVICE CONDUCTORS (x 1.25) 330 (NS) AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS 2 SETS (4#140 & 1#16GRD 2-1/2°C EA NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR PARALLEL #140 NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC) 1 AWG NEC TABLE 250-94

DP-3 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY - MULTI-FAMILY OPTIONAL METHOD
BUILDING DESCRIPTION: 3-STOREY MULTI-UNIT RESIDENTIAL BUILDING 70,260 GSF, 98 TOTAL STUDIO AND 1BR UNITS
TYPICAL UNITS: ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT, ELECTRIC STOVE, CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT), CENTRAL GAS DRYERS (NOT IN UNIT)
GENERAL LIGHTING & RECEPTACLE 7299 x 3W / SF 21,897 NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS 30 x 1500 W 45,000 NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS 0 x 1500 W 0 NEC 220-16(B), 220-4(C)
TOTAL GENERAL LIGHTING AND RECEPTACLE 71,820 WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC
WATER HEATER 0A x 120V 0
COMPACTOR 0A x 120V 0
DISHWASHER (15) 12A x 120V 21,600
DISPOSAL 0 x 115V 0 NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD (15) 12A x 120V 21,600
TOTAL FASTENED-IN-PLACE APPLIANCES 43,200 WATTS
CLOTHES DRYERS 0 x 208V 0 WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS , COOKTOPS (15) RANGE, 9.1KW (UNDER 12KW) 136,500 WATTS
HEATING OR AIR-CONDITIONING (LARGER OF HIAC) (6) x 2580, (9) x 1997 33,447 WATTS NEC 220-19
TOTAL CONNECTED LOAD 280,044
TOTAL CALCULATED LOAD (UNITS) 40 280,044 112,018 NEC TABLE 220.84, 14-15 UNITS
MIN AMPERES FOR 120/208V 3PH SERVICE TOTAL VA / 208 / 1.732 311 AMPS
MIN SIZE FOR SERVICE CONDUCTORS (x 1.25) 389 (NS) AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS 2 SETS (4#250 & 1#16GRD 3°C EA NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR PARALLEL #250 NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC) 1 AWG NEC TABLE 250-94

DP-4 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY - MULTI-FAMILY OPTIONAL METHOD
BUILDING DESCRIPTION: 3-STOREY MULTI-UNIT RESIDENTIAL BUILDING 70,260 GSF, 98 TOTAL STUDIO AND 1BR UNITS
TYPICAL UNITS: ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT, ELECTRIC STOVE, CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT), CENTRAL GAS DRYERS (NOT IN UNIT)
GENERAL LIGHTING & RECEPTACLE 7299 x 3W / SF 21,897 NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS 30 x 1500 W 45,000 NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS 0 x 1500 W 0 NEC 220-16(B), 220-4(C)
TOTAL GENERAL LIGHTING AND RECEPTACLE 71,820 WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC
WATER HEATER 0A x 120V 0
COMPACTOR 0A x 120V 0
DISHWASHER (14) 12A x 120V 20,160
DISPOSAL 0 x 115V 0 NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD (14) 12A x 120V 20,160
TOTAL FASTENED-IN-PLACE APPLIANCES 40,320 WATTS
CLOTHES DRYERS 0 x 208V 0 WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS , COOKTOPS (12) RANGE, 9.1KW (UNDER 12KW) 109,200 WATTS
HEATING OR AIR-CONDITIONING (LARGER OF HIAC) (6) x 2580, (6) x 1997 27,465 WATTS NEC 220-19
TOTAL CONNECTED LOAD 268,965
TOTAL CALCULATED LOAD (UNITS) 40 268,965 107,586 NEC TABLE 220.84, 14-15 UNITS
MIN AMPERES FOR 120/208V 3PH SERVICE TOTAL VA / 208 / 1.732 299 AMPS
MIN SIZE FOR SERVICE CONDUCTORS (x 1.25) 374 (NS) AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS 2 SETS (4#250 & 1#16GRD 3°C EA NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR PARALLEL #250 NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC) 1 AWG NEC TABLE 250-94

DP-5 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY - MULTI-FAMILY OPTIONAL METHOD
BUILDING DESCRIPTION: 3-STOREY MULTI-UNIT RESIDENTIAL BUILDING 70,260 GSF, 98 TOTAL STUDIO AND 1BR UNITS
TYPICAL UNITS: ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT, ELECTRIC STOVE, CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT), CENTRAL GAS DRYERS (NOT IN UNIT)
GENERAL LIGHTING & RECEPTACLE 7299 x 3W / SF 21,897 NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS 30 x 1500 W 45,000 NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS 0 x 1500 W 0 NEC 220-16(B), 220-4(C)
TOTAL GENERAL LIGHTING AND RECEPTACLE 71,820 WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC
WATER HEATER 0A x 120V 0
COMPACTOR 0A x 120V 0
DISHWASHER (15) 12A x 120V 21,600
DISPOSAL 0 x 115V 0 NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD (15) 12A x 120V 21,600
TOTAL FASTENED-IN-PLACE APPLIANCES 43,200 WATTS
CLOTHES DRYERS 0 x 208V 0 WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS , COOKTOPS (15) RANGE, 9.1KW (UNDER 12KW) 136,500 WATTS
HEATING OR AIR-CONDITIONING (LARGER OF HIAC) (6) x 2580, (9) x 1997 33,447 WATTS NEC 220-19
TOTAL CONNECTED LOAD 280,044
TOTAL CALCULATED LOAD (UNITS) 40 280,044 112,018 NEC TABLE 220.84, 14-15 UNITS
MIN AMPERES FOR 120/208V 3PH SERVICE TOTAL VA / 208 / 1.732 311 AMPS
MIN SIZE FOR SERVICE CONDUCTORS (x 1.25) 389 (NS) AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS 2 SETS (4#250 & 1#16GRD 3°C EA NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR PARALLEL #250 NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC) 1 AWG NEC TABLE 250-94

DP-6 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY - MULTI-FAMILY OPTIONAL METHOD
BUILDING DESCRIPTION: 3-STOREY MULTI-UNIT RESIDENTIAL BUILDING 70,260 GSF, 98 TOTAL STUDIO AND 1BR UNITS
TYPICAL UNITS: ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT, ELECTRIC STOVE, CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT), CENTRAL GAS DRYERS (NOT IN UNIT)
GENERAL LIGHTING & RECEPTACLE 8364 x 3W / SF 25,092 NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS 24 x 1500 W 36,000 NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS 0 x 1500 W 0 NEC 220-16(B), 220-4(C)
TOTAL GENERAL LIGHTING AND RECEPTACLE 61,092 WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC
WATER HEATER 0A x 120V 0
COMPACTOR 0A x 120V 0
DISHWASHER (12) 12A x 120V 17,280
DISPOSAL 0 x 115V 0 NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD (12) 12A x 120V 17,280
TOTAL FASTENED-IN-PLACE APPLIANCES 34,560 WATTS
CLOTHES DRYERS 0 x 208V 0 WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS , COOKTOPS (12) RANGE, 9.1KW (UNDER 12KW) 109,200 WATTS
HEATING OR AIR-CONDITIONING (LARGER OF HIAC) (6) x 2580, (6) x 1997 27,462 WATTS NEC 220-19
TOTAL CONNECTED LOAD 232,314
TOTAL CALCULATED LOAD (UNITS) 41 232,314 95,249 NEC TABLE 220.84, 12-13 UNITS
MIN AMPERES FOR 120/208V 3PH SERVICE TOTAL VA / 208 / 1.732 264 AMPS
MIN SIZE FOR SERVICE CONDUCTORS (x 1.25) 330 (NS) AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS 2 SETS (4#140 & 1#16GRD 2-1/2°C EA NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR PARALLEL #140 NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC) 1 AWG NEC TABLE 250-94

M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604
CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654
ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA)
PROJECT: 5525 W DIVERSEY AVENUE PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603
DRAWING TITLE: ELECTRICAL LOAD CALCULATIONS
SCALE: 1/8" = 1'-0" DATE OF ISSUE: 05/12/2016
DRAWN BY: Author REVIEWED BY: Checker
CONSULTANT'S SIGNATURE:

NOT FOR CONSTRUCTION OR BID

ARCHITECT OF RECORD SEAL

DP-7 RESIDENTIAL LOAD CALCULATION - 5525 W DIVERSEY - MULTI-FAMILY OPTIONAL METHOD				
BUILDING DESCRIPTION:		TYPICAL UNITS:		
3-STORY MULTI-UNIT RESIDENTIAL BUILDING 70,260 GSF, 98 TOTAL STUDIO AND 1BR UNITS		ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT ELECTRIC STOVE CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT) CENTRAL GAS DRYERS (NOT IN UNIT)		
GAS-FIRED DX ROOFTOP CORRIDOR MAKE-UP AHUS CENTRAL GAS DOMESTIC HOT WATER CENTRAL GAS DRYERS				
GENERAL LIGHTING & RECEPTACLE	8940	x 3W / SF	26,820	NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS	30	x 1500 W	45,000	NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS	0	x 1500 W	0	NEC 220-16(B), 220-4(C)
TOTAL GENERAL LIGHTING AND RECEPTACLE			71,820	WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC				
WATER HEATER	0A	x 120V	0	
COMPACTOR	0A	x 120V	0	
DISHWASHER	(15) 12A	x 120V	21,600	
DISPOSAL	0	x 115V	0	NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD	(15) 12A	x 120V	21,600	
TOTAL FASTENED-IN-PLACE APPLIANCES			43,200	WATTS
CLOTHES DRYERS	0	x 208V	0	WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS, COOKTOPS	(15) RANGE, 9.1KW (UNDER 12KW)		136,500	WATTS
HEATING OR AIR-CONDITIONING (LARGER OF HIAC)	(6) x 2590, (9) x 1997		33,447	WATTS NEC 220-19
TOTAL CONNECTED LOAD			284,967	
TOTAL CALCULATED LOAD (UNITS)	40	284,967	113,987	NEC TABLE 220.84, 14-15 UNITS
MIN AMPERES FOR SERVICE TOTAL VA / 208 / 1.732			316	AMPS
MIN SIZE FOR SERVICE CONDUCTORS (x 1.25)			395 (NSI)	AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS	2 SETS (4#250 & 1#1) (1#1 GRD 3" C.E.A)			NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR	PARALLEL #250			NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC)	1 AWG			NEC TABLE 250-94

RESIDENTIAL LOAD CALCULATION - UNIT A				
UNIT DESCRIPTION:		UNIT A: 477 SF		
ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT ELECTRIC STOVE CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT) CENTRAL GAS DRYERS (NOT IN UNIT)				
GENERAL LIGHTING & RECEPTACLE	477	x 3W / SF	1431	NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS	2	x 1500 W	3000	NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS	0	x 1500 W	0	NEC 220-16(B), 220-4(C)
SUBTOTAL			4431	WATTS
DEMAND FACTOR FIRST 3,000 VA 100% 3,000 NEC TABLE 220.42 DWELLING UNITS				
3001 TO 120,000 VA	35%	x 4431-3000	500	NEC TABLE 220.42
REMAINING OVER 120,000 VA	25%	x 0	0	NEC TABLE 220.42
TOTAL GENERAL LIGHTING AND RECEPTACLE			3,500	WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC				
WATER HEATER	0A	x 120V	0	
COMPACTOR	0A	x 120V	0	
DISHWASHER	12A	x 120V	1440	
DISPOSAL	0	x 115V	0	NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD	12A	x 120V	1440	
SUBTOTAL			2880	
DEMAND FACTOR 4 OR MORE APPLIANCES	75%	NA		
TOTAL FASTENED-IN-PLACE APPLIANCES			2880	WATTS
CLOTHES DRYERS	0A	x 120V	0	WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS, COOKTOPS	(1) RANGE, 9.1KW (UNDER 12KW)		8,000	WATTS NEC TABLE 220-19, INCLUDES OTHER COOKING APPLIANCES OVER 1750 WATTS.
HEATING OR AIR-CONDITIONING (LARGER OF HIAC)			2,580	WATTS NEC 220-19
LARGEST MOTOR	25%	x 1997 VA	500	WATTS NEC 220-430-24
TOTAL VA DEMAND LOAD			17,460	WATTS
MIN AMPERES FOR SERVICE TOTAL VA / 208			84	AMPS
MIN SIZE FOR SERVICE CONDUCTORS (NEXT STANDARD SIZE)			90	AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS			1 AWG	NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR			1 AWG	NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC)			6 AWG	NEC TABLE 250-94

RESIDENTIAL LOAD CALCULATION - UNIT D				
UNIT DESCRIPTION:		UNIT A: 650 SF		
ELECTRIC AC UNIT (HEAT PUMP) WITH GAS HEAT ELECTRIC STOVE CENTRAL GAS DOMESTIC HOT WATER (NOT IN UNIT) CENTRAL GAS DRYERS (NOT IN UNIT)				
GENERAL LIGHTING & RECEPTACLE	650	x 3W / SF	1950	NEC 220-3(B)
SMALL APPLIANCE BRANCH CIRCUITS	2	x 1500 W	3000	NEC 220-16(A)
LAUNDRY BRANCH CIRCUITS	0	x 1500 W	0	NEC 220-16(B), 220-4(C)
SUBTOTAL			4950	WATTS
DEMAND FACTOR FIRST 3,000 VA 100% 3,000 NEC TABLE 220.42 DWELLING UNITS				
3001 TO 120,000 VA	35%	x 4950-3000	663	NEC TABLE 220.42
REMAINING OVER 120,000 VA	25%	x 0	0	NEC TABLE 220.42
TOTAL GENERAL LIGHTING AND RECEPTACLE			3,663	WATTS
FASTENED IN PLACE (FIXED) APPLIANCES 1 KW = 1000 VA NEC 220-17, EXCLUDES ELECTRIC RANGES, DRYERS, HVAC				
WATER HEATER	0A	x 120V	0	
COMPACTOR	0A	x 120V	0	
DISHWASHER	12A	x 120V	1440	
DISPOSAL	0	x 115V	0	NEC TABLE 430-149 1/2 HP=9.8A
MICROWAVE / HOOD	12A	x 120V	1440	
SUBTOTAL			2880	
DEMAND FACTOR 4 OR MORE APPLIANCES	75%	NA		
TOTAL FASTENED-IN-PLACE APPLIANCES			2880	WATTS
CLOTHES DRYERS	0A	x 120V	0	WATTS NEC 220-18 (USE LARGER OF 5,000W OR NAMEPLATE)
RANGES, OVENS, COOKTOPS	(1) RANGE, 9.1KW (UNDER 12KW)		8,000	WATTS NEC TABLE 220-19, INCLUDES OTHER COOKING APPLIANCES OVER 1750 WATTS.
HEATING OR AIR-CONDITIONING (LARGER OF HIAC)			2,580	WATTS NEC 220-19
LARGEST MOTOR	25%	x 1997 VA	500	WATTS NEC 220-430-24
TOTAL VA DEMAND LOAD			17,643	WATTS
MIN AMPERES FOR SERVICE TOTAL VA / 208			85	AMPS
MIN SIZE FOR SERVICE CONDUCTORS (NEXT STANDARD SIZE)			90	AMPS NEC 240-6(A)
SIZE OF SERVICE AND/OR FEEDER CONDUCTORS			1 AWG	NEC 310-15(B) (UP TO 400A), GREATER THAN 400A USE TABLE 310-16
SIZE OF NEUTRAL CONDUCTOR			1 AWG	NEC 220-22
SIZE OF GROUNDING ELECTRODE CONDUCTOR (GEC)			6 AWG	NEC TABLE 250-94

<p>M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108</p> 	<p>ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312-578-0550 (US), +91-987 021 9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com</p> 	<p>PROJECT: 5525 W DIVERSEY AVENUE PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603</p> <p>DRAWING TITLE: ELECTRICAL LOAD CALCULATIONS</p>	REV.	BY	DESCRIPTION	DATE	DRAWING NO.
			<p>CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com</p> 	<p>STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER Engineering of Structures Civil Building Enclosures Simpson Gumpertz & Heger Inc. 312.754.7300 133 South LaSalle Street, Suite 3950 Chicago, Illinois 60603 fax: 312.754.7301 www.sgh.com</p>	<p>SCALE: 1/8" = 1'-0" DATE OF ISSUE: 05/12/2016 OWNER'S SIGNATURE:</p>	<p>DRAWN BY: Author REVIEWED BY: Checker CONSULTANT'S SIGNATURE:</p>	11
			09				
			08				
			07				
			06				
			05				
			04				
			03				
			02				
			01				

E-003

PANELBOARD SCHEDULE:

Table with 13 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, A, B, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like AC UNIT, DISHWASHER, REFRIGERATOR, and KITCHEN A.3.

TOTAL PHASE A: 5748 VA, TOTAL PHASE B: 3248 VA, TOTAL CONNECTED LOAD: 8994 VA, TOTAL DEMAND LOAD: 8994 VA, 43 A

PANELBOARD SCHEDULE:

Table with 17 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, C, A, B, C, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like RECEPTACLE LIVING RM D.1 and HVAC LIVING RM D.1.

TOTAL PHASE A: 5783 VA, TOTAL PHASE B: 3048 VA, TOTAL CONNECTED LOAD: 8811 VA, TOTAL DEMAND LOAD: 8811 VA, 42 A

PANELBOARD SCHEDULE:

Table with 17 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, A, B, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like BATH G.3, RECEPTACLE, and HVAC LIVING/BEDROOM G.1.

TOTAL PHASE A: 6282 VA, TOTAL PHASE B: 5004 VA, TOTAL CONNECTED LOAD: 11286 VA, TOTAL DEMAND LOAD: 11286 VA, 54 A

PANELBOARD SCHEDULE:

Table with 13 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, A, B, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like RECEPTACLE, MICROWAVE, REFRIGERATOR, and DISHWASHER.

TOTAL PHASE A: 3248 VA, TOTAL PHASE B: 5668 VA, TOTAL CONNECTED LOAD: 8814 VA, TOTAL DEMAND LOAD: 8814 VA, 42 A

PANELBOARD SCHEDULE:

Table with 17 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, C, A, B, C, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like RECEPTACLE ROOM E.1, 103A and RECEPTACLE.

TOTAL PHASE A: 4686 VA, TOTAL PHASE B: 2868 VA, TOTAL CONNECTED LOAD: 7554 VA, TOTAL DEMAND LOAD: 7554 VA, 36 A

PANELBOARD SCHEDULE:

Table with 17 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, A, B, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like ROOM H.4, RECEPTACLE BEDROOM H.2, and APPLIANCE - DWELLING UNIT.

TOTAL PHASE A: 4146 VA, TOTAL PHASE B: 4488 VA, TOTAL CONNECTED LOAD: 8634 VA, TOTAL DEMAND LOAD: 8634 VA, 42 A

PANELBOARD SCHEDULE:

Table with 17 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, C, A, B, C, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like RECEPTACLE LIVING/BEDROOM C.1, APPLIANCE - DWELLING UNIT, and RECEPTACLE.

TOTAL PHASE A: 4323 VA, TOTAL PHASE B: 4128 VA, TOTAL CONNECTED LOAD: 8451 VA, TOTAL DEMAND LOAD: 8451 VA, 41 A

PANELBOARD SCHEDULE:

Table with 17 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, A, B, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like BATH F.4, RECEPTACLE BEDROOM F.2, and RECEPTACLE.

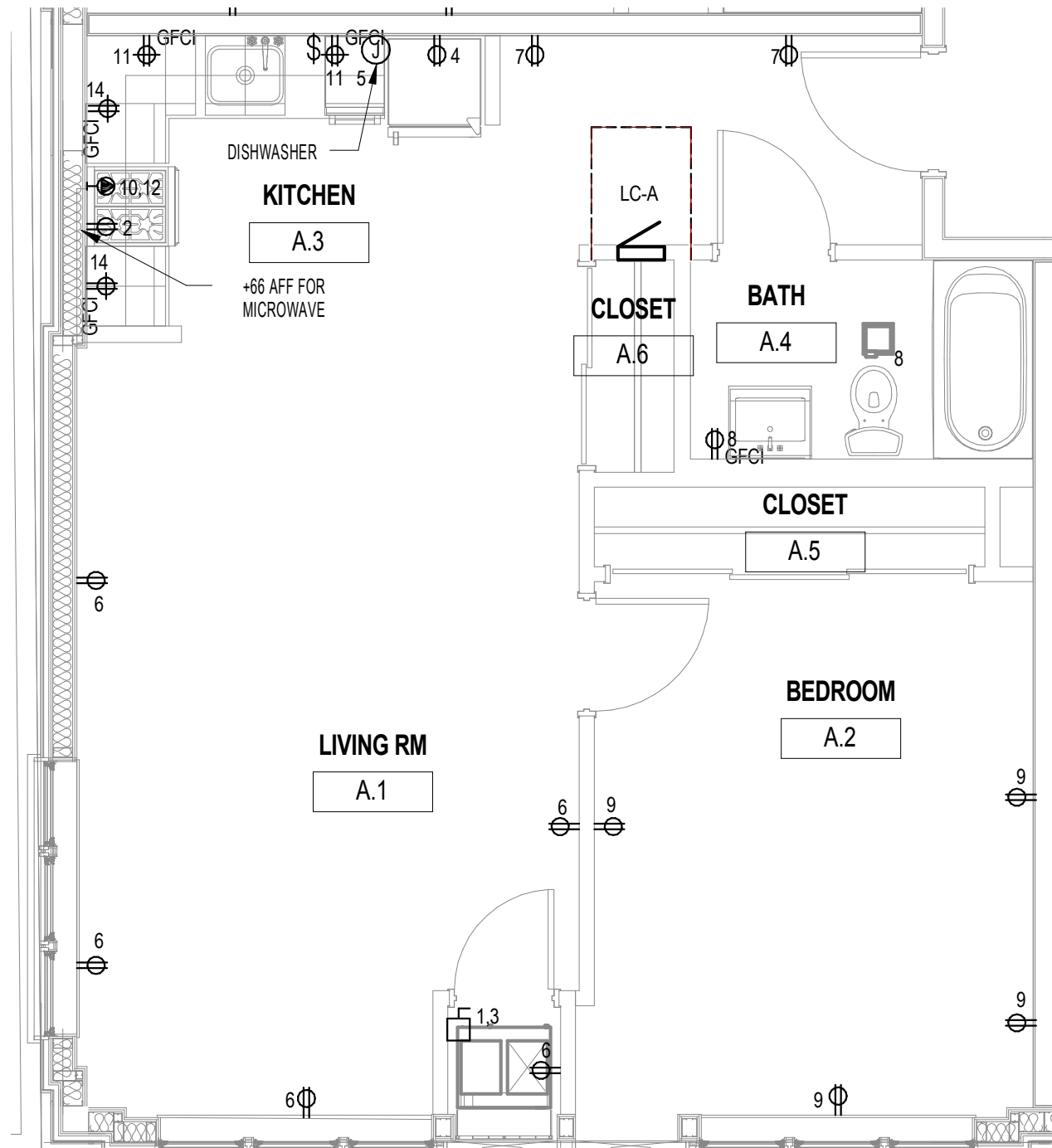
TOTAL PHASE A: 2718 VA, TOTAL PHASE B: 3420 VA, TOTAL CONNECTED LOAD: 6138 VA, TOTAL DEMAND LOAD: 6138 VA, 30 A

PANELBOARD SCHEDULE:

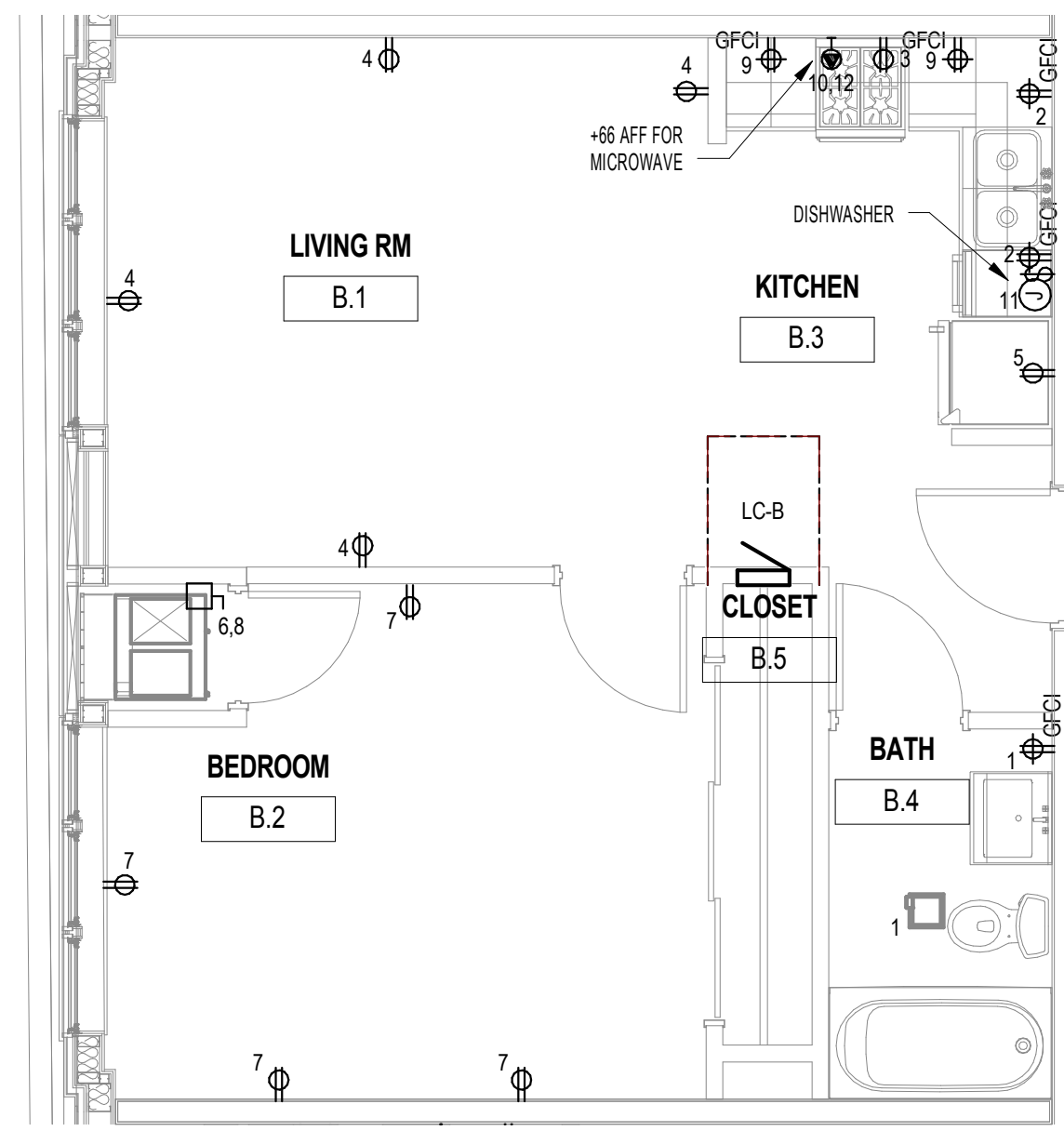
Table with 17 columns: NO., DESCRIPTION, OCP SIZE, OCP OPTIONS, A, B, A, B, OCP OPTIONS, OCP SIZE, DESCRIPTION, NO. Includes equipment like ROOM H.4, RECEPTACLE BEDROOM H.2, and APPLIANCE - DWELLING UNIT.

TOTAL PHASE A: 4146 VA, TOTAL PHASE B: 4488 VA, TOTAL CONNECTED LOAD: 8634 VA, TOTAL DEMAND LOAD: 8634 VA, 42 A

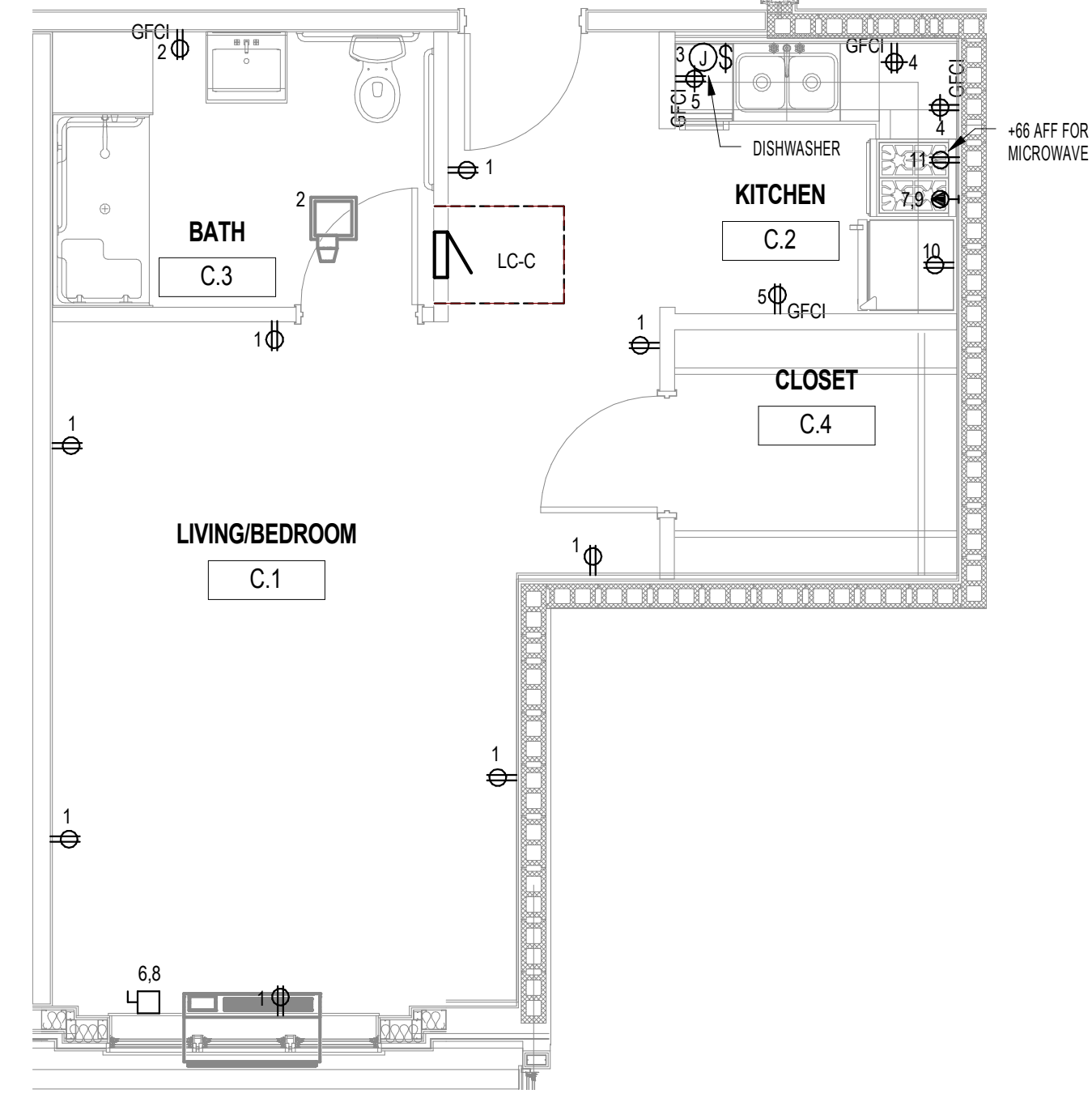
Project details and contact information. PROJECT: 5525 W DIVERSEY AVENUE. ARCHITECTS: CSA PARTNERS LTD. CONTRACTOR: KINZIE CONSTRUCTION GROUP. DRAWING TITLE: ELECTRICAL PANEL SCHEDULES. SCALE: AS SHOWN. DATE OF ISSUE: 05/12/2016. OWNER'S SIGNATURE: [Blank]. CONSULTANT'S SIGNATURE: [Blank]. REV. BY DESCRIPTION DATE DRAWING NO. E-004



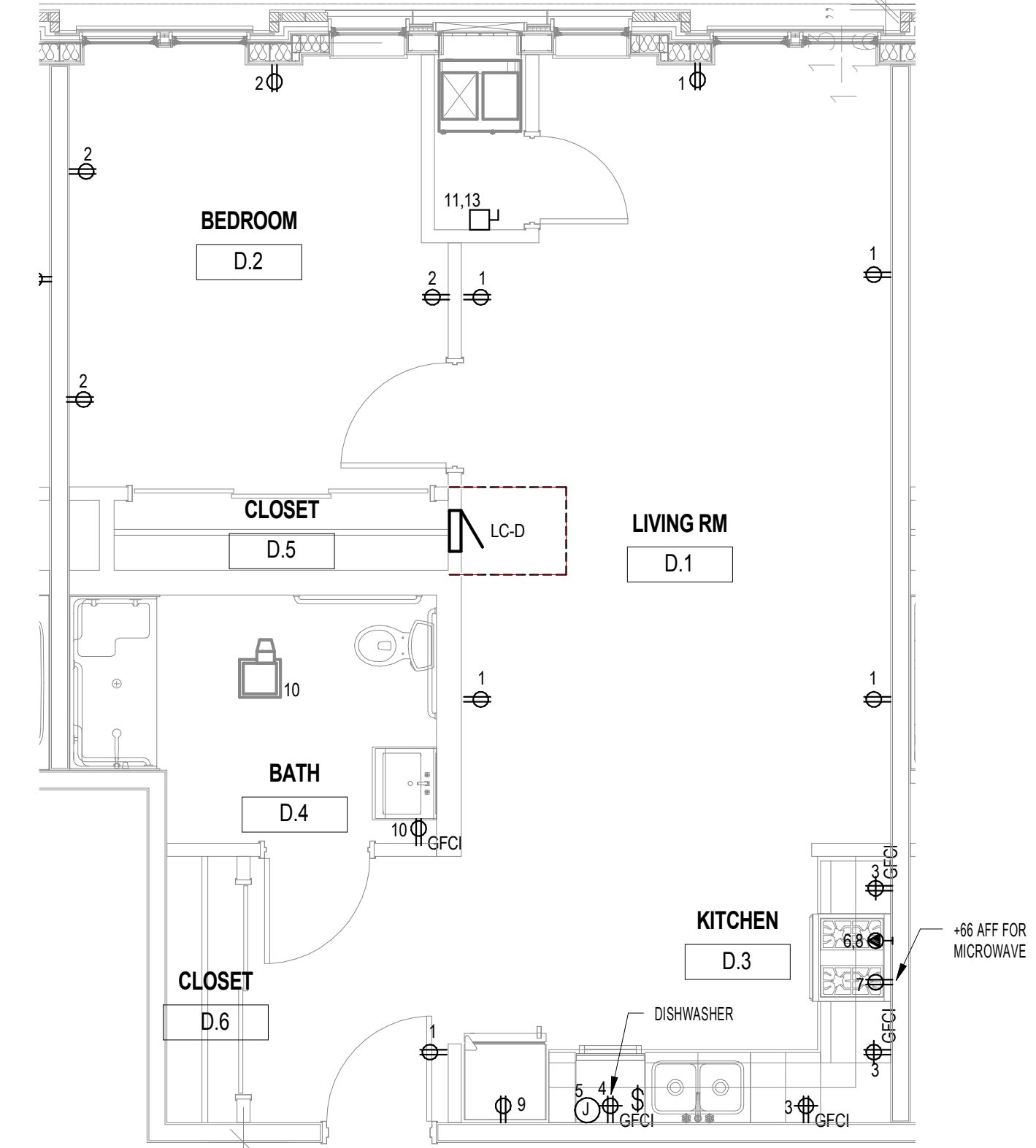
1 ELECTRICAL PLAN - TYPE A
1/4" = 1'-0"



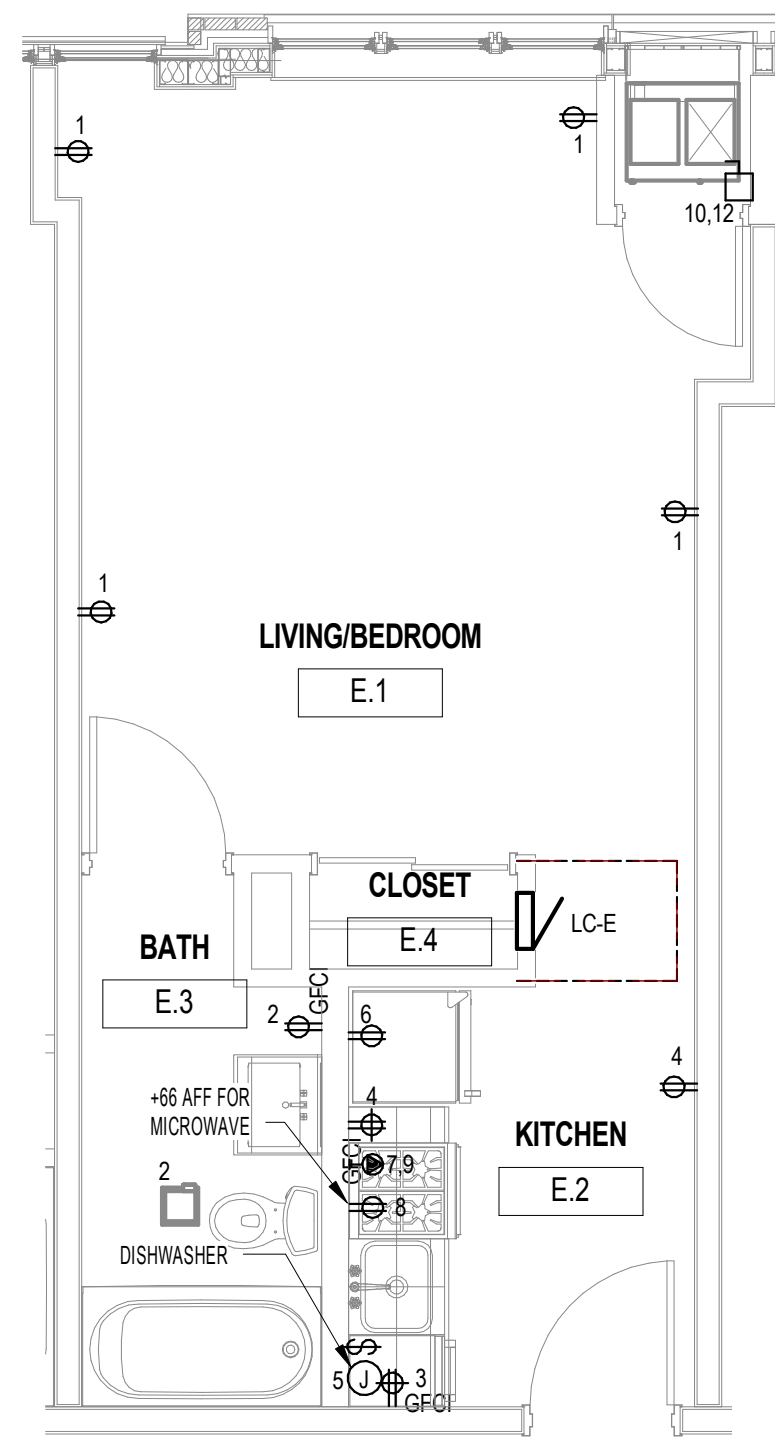
2 ELECTRICAL PLAN - TYPE B
1/4" = 1'-0"



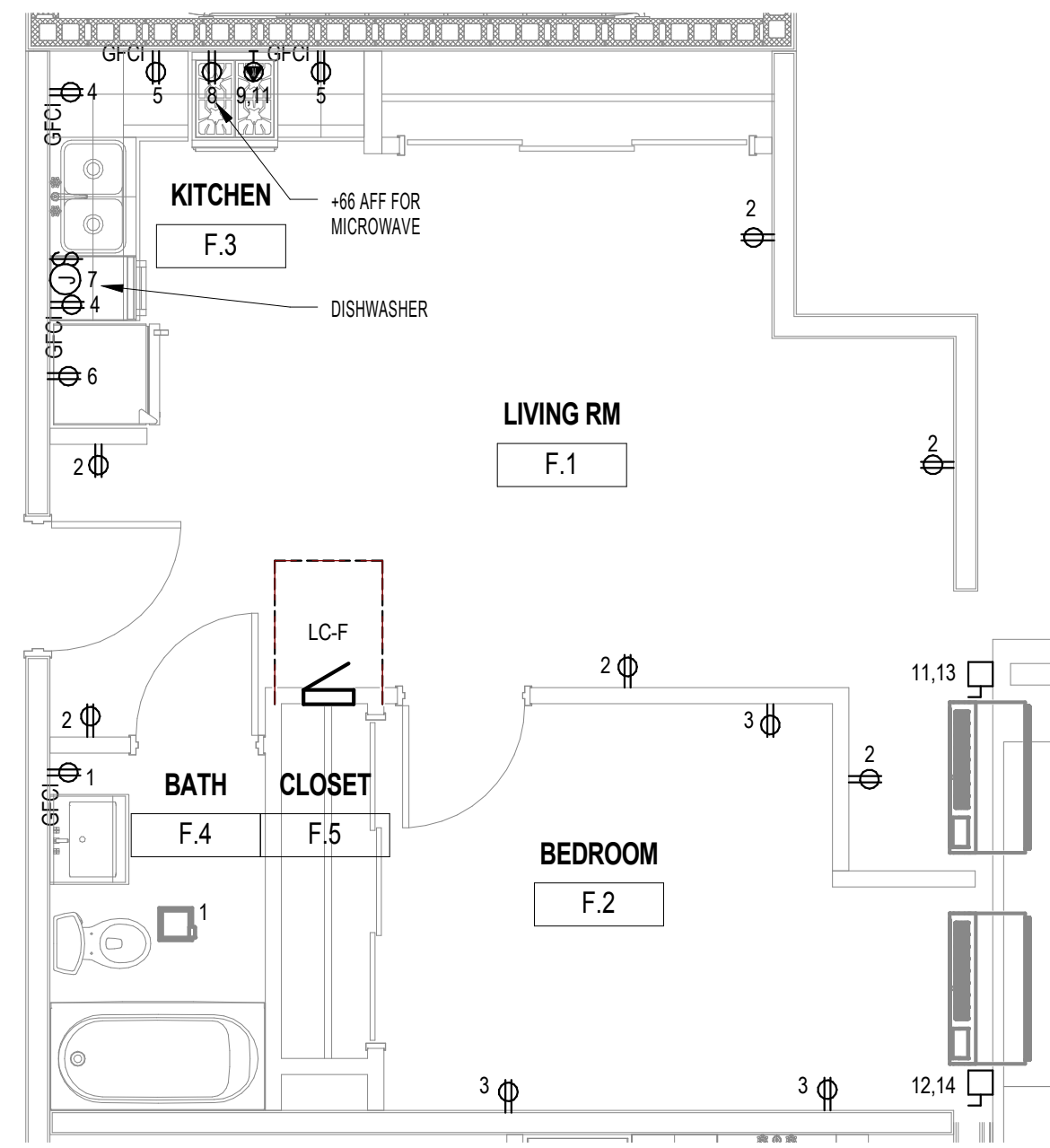
3 ELECTRICAL PLAN - TYPE C
1/4" = 1'-0"



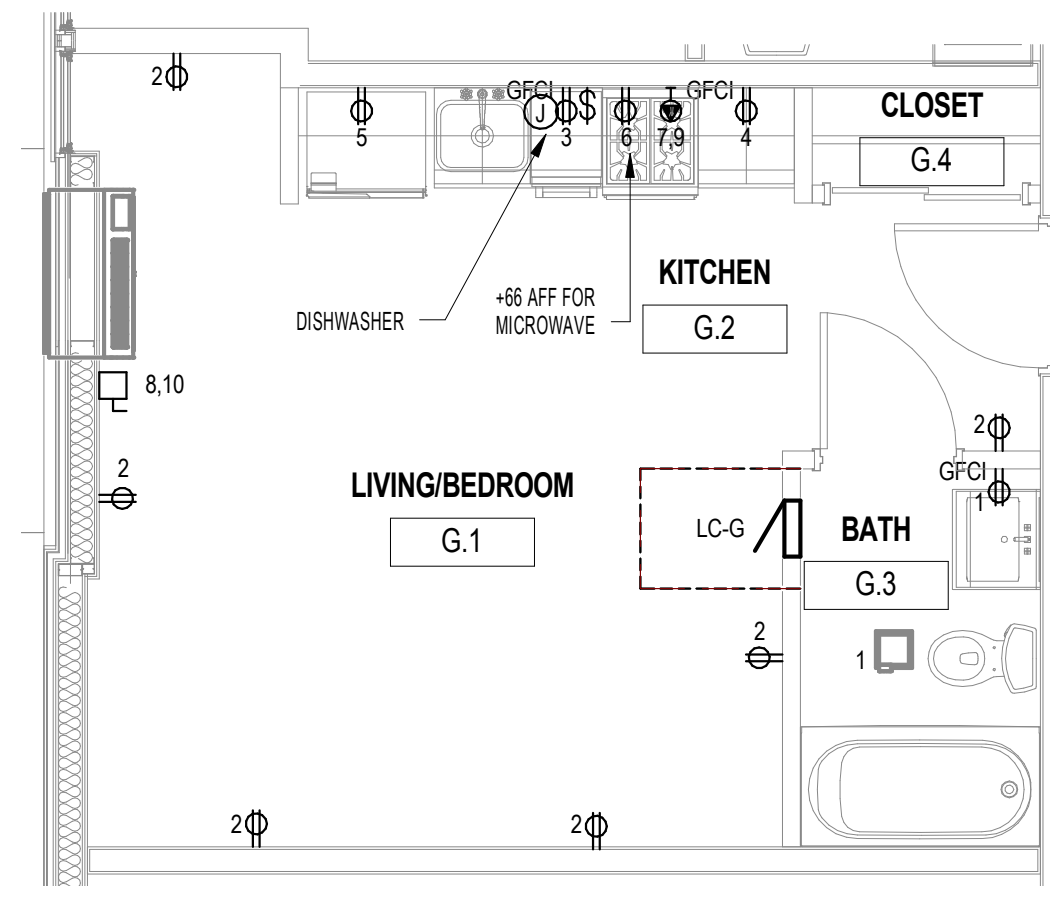
4 ELECTRICAL PLAN - TYPE D
1/4" = 1'-0"



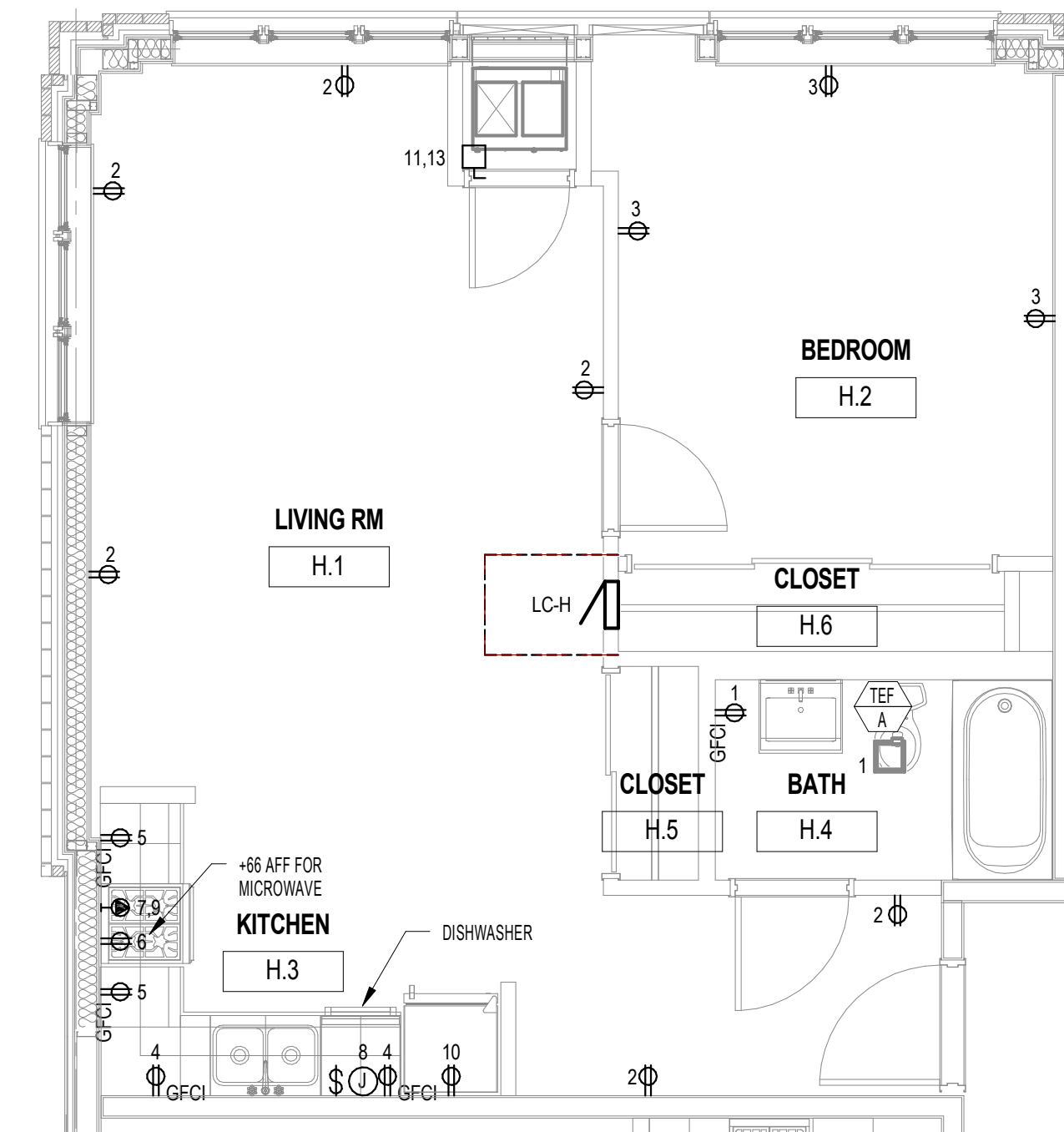
5 ELECTRICAL PLAN - TYPE E
1/4" = 1'-0"



6 ELECTRICAL PLAN - TYPE F
1/4" = 1'-0"

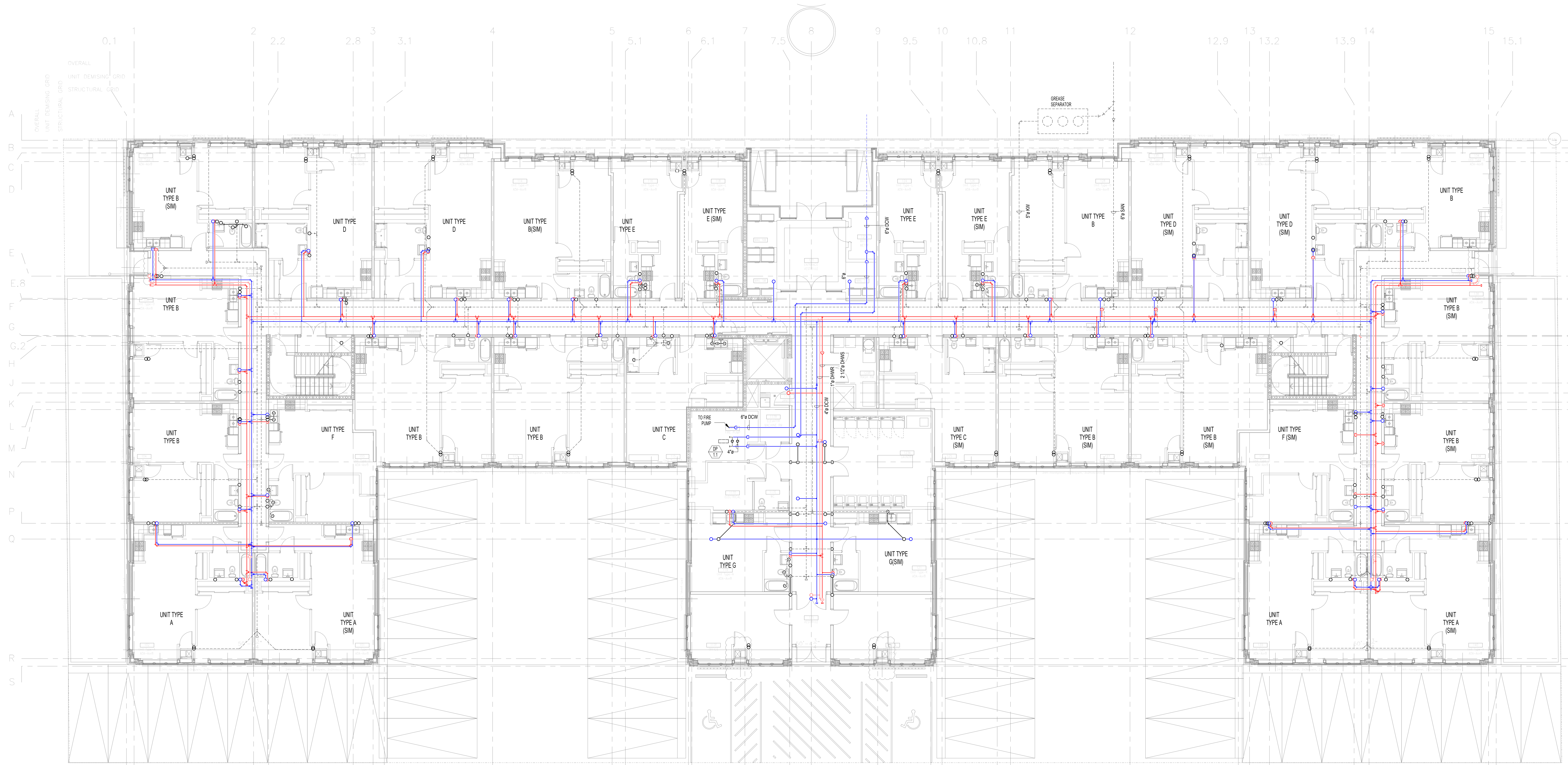


7 ELECTRICAL PLAN - TYPE G
1/4" = 1'-0"



8 ELECTRICAL PLAN - TYPE H
1/4" = 1'-0"

<p>THIS DRAWING IS THE PROPERTY OF DDG INC. AND IS PROTECTED BY COPYRIGHT LAWS AND STATUTES PERTAINING TO THE SOLE RIGHT OF THE AUTHOR TO MAINTAIN UNLIMITED USE OF THIS DOCUMENT. THE USE OF THIS DRAWING IS LIMITED SOLELY FOR THE BENEFIT OF THIS PROJECT AND IS NOT TO BE USED, DUPLICATED, COPIED OR DISTRIBUTED FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AND DATED PERMISSION OF DDG INC.</p>	<p>M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108</p> <p>CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com</p>	<p>ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312-578-0550 (US), +91-987 021 9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com</p> <p>STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 312.754.7300 133 South LaSalle Street, Suite 3500 Chicago, Illinois 60603 fax: 312.754.7301 www.sgh.com</p>	<p>PROJECT: 5525 W DIVERSEY AVENUE PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603</p> <p>DRAWING TITLE: ELECTRICAL TYPICAL UNIT PLANS</p> <p>SCALE: 1/4" = 1'-0" DATE OF ISSUE: 05/12/2016 OWNER'S SIGNATURE:</p>	<p>DRAWN BY: Author REVIEWED BY: Checker CONSULTANT'S SIGNATURE:</p>	<table border="1"> <thead> <tr> <th>REV.</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWING NO.</th> </tr> </thead> <tbody> <tr> <td>11</td> <td></td> <td>ISSUE FOR PROGRESS</td> <td>05/12/2016</td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>09</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>08</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>07</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>06</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>05</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>04</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>03</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>02</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>01</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REV.	BY	DESCRIPTION	DATE	DRAWING NO.	11		ISSUE FOR PROGRESS	05/12/2016		10					09					08					07					06					05					04					03					02					01					<p>E-500</p>
REV.	BY	DESCRIPTION	DATE	DRAWING NO.																																																														
11		ISSUE FOR PROGRESS	05/12/2016																																																															
10																																																																		
09																																																																		
08																																																																		
07																																																																		
06																																																																		
05																																																																		
04																																																																		
03																																																																		
02																																																																		
01																																																																		



M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
 135 South La Salle Street
 Chicago, IL 60604
 T: 312 982 2108

CONTRACTOR:
KINZIE CONSTRUCTION GROUP
 116 W Illinois St
 Chicago, IL 60654
 T: (312) 464-8800
 W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
 29 E Madison Street, Suite 1309
 Chicago, IL 60602 (USA)
 69A Nepeansea Road, Manisha 1st Flr
 Mumbai 400006 (INDIA)
 T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
 E: contact@csa-partners.com
 W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER
 Engineering of Structures
 and Building Enclosures
 Simpson Gumpertz & Heger Inc.
 133 South LaSalle Street, Suite 3500
 Chicago, Illinois 60603
 312.754.7300
 fax: 312.754.7301
 www.sgh.com

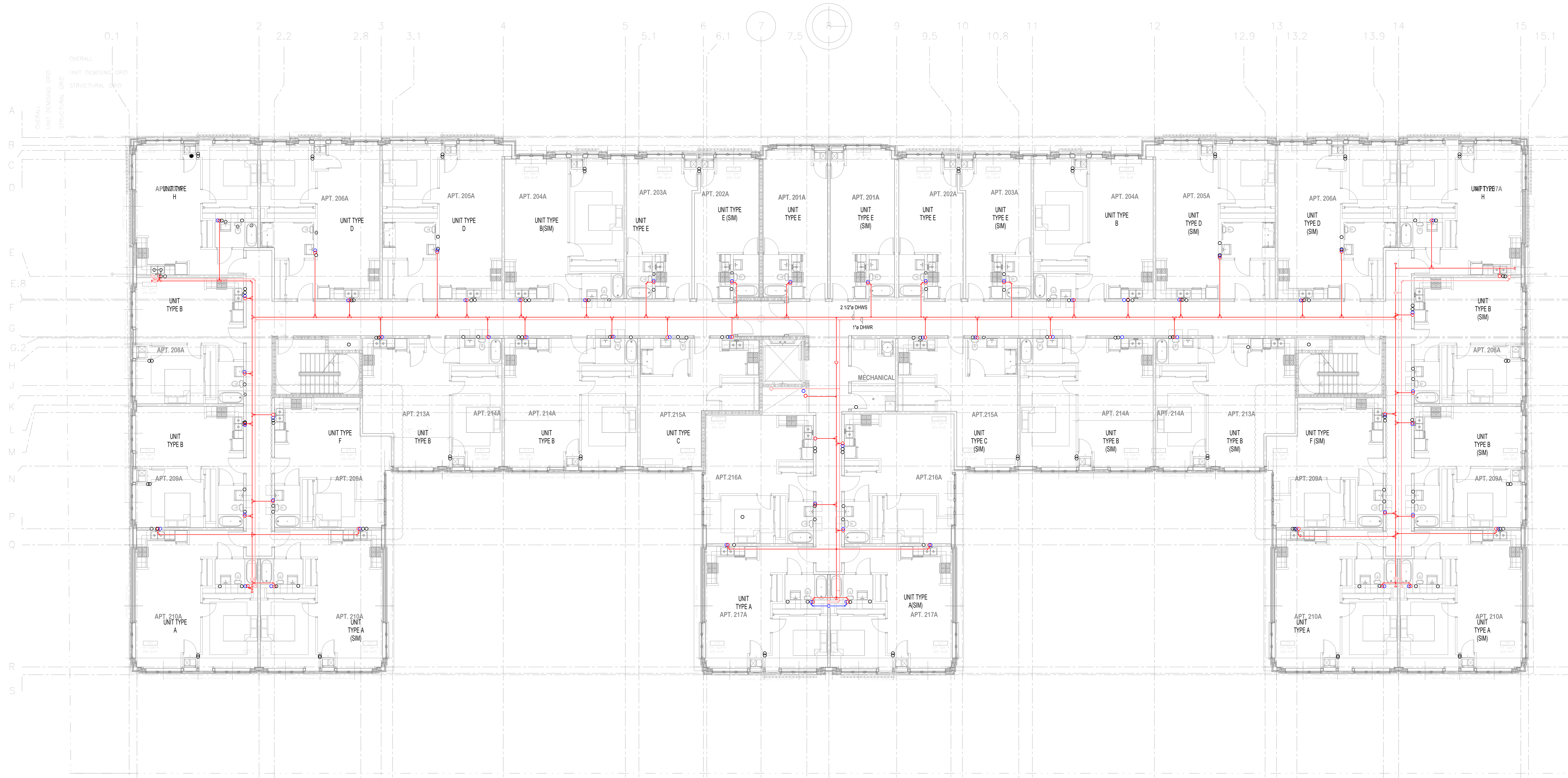
PROJECT: 5525 W DIVERSEY AVENUE
 PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

DRAWING TITLE: **PLUMBING FIRST FLOOR PLAN**

SCALE: 1/8" = 1'-0"
 DATE OF ISSUE: 05/12/2016
 OWNER'S SIGNATURE:

DRAWN BY: Author
 REVIEWED BY: Checker
 CONSULTANT'S SIGNATURE:

REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11		ISSUE FOR PROGRESS	05/12/2016	P-101
10				
09				
08				
07				
06				
05				
04				
03				
02				
01				



M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
 135 South La Salle Street
 Chicago, IL 60604
 T: 312 982 2108

CONTRACTOR:
KINZIE CONSTRUCTION GROUP
 116 W Illinois St
 Chicago, IL 60654
 T: (312) 464-8800
 W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
 29 E Madison Street, Suite 1309
 Chicago, IL 60602 (USA)
 69A Nepeansea Road, Manisha 1st Flr
 Mumbai 400006 (INDIA)
 T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
 E: contact@csa-partners.com
 W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER
 Engineering of Structures
 and Building Enclosures
 Simpson Gumpertz & Heger Inc.
 133 South LaSalle Street, Suite 3500
 Chicago, Illinois 60603
 312.754.7300
 fax: 312.754.7301
 www.sgh.com

PROJECT: 5525 W DIVERSEY AVENUE
 PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

DRAWING TITLE: **PLUMBING SECOND FLOOR PLAN**

SCALE: 1/8" = 1'-0"
 DATE OF ISSUE: 05/12/2016
 OWNER'S SIGNATURE:

DRAWN BY: Author
 REVIEWED BY: Checker
 CONSULTANT'S SIGNATURE:

REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11		ISSUE FOR PROGRESS	05/12/2016	P-102
10				
09				
08				
07				
06				
05				
04				
03				
02				
01				



M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
 135 South La Salle Street
 Chicago, IL 60604
 T: 312 982 2108

CONTRACTOR:
KINZIE CONSTRUCTION GROUP
 116 W Illinois St
 Chicago, IL 60654
 T: (312) 464-8800
 W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
 29 E Madison Street, Suite 1309
 Chicago, IL 60602 (USA)
 69A Nepeansea Road, Manisha 1st Flr
 Mumbai 400006 (INDIA)
 T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
 E: contact@csa-partners.com
 W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER
 Engineering of Structures
 and Building Enclosures
 Simpson Gumpertz & Heger Inc.
 133 South LaSalle Street, Suite 3050
 Chicago, Illinois 60603
 312.754.7300
 fax: 312.754.7301
 www.sgh.com

PROJECT: 5525 W DIVERSEY AVENUE
 PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

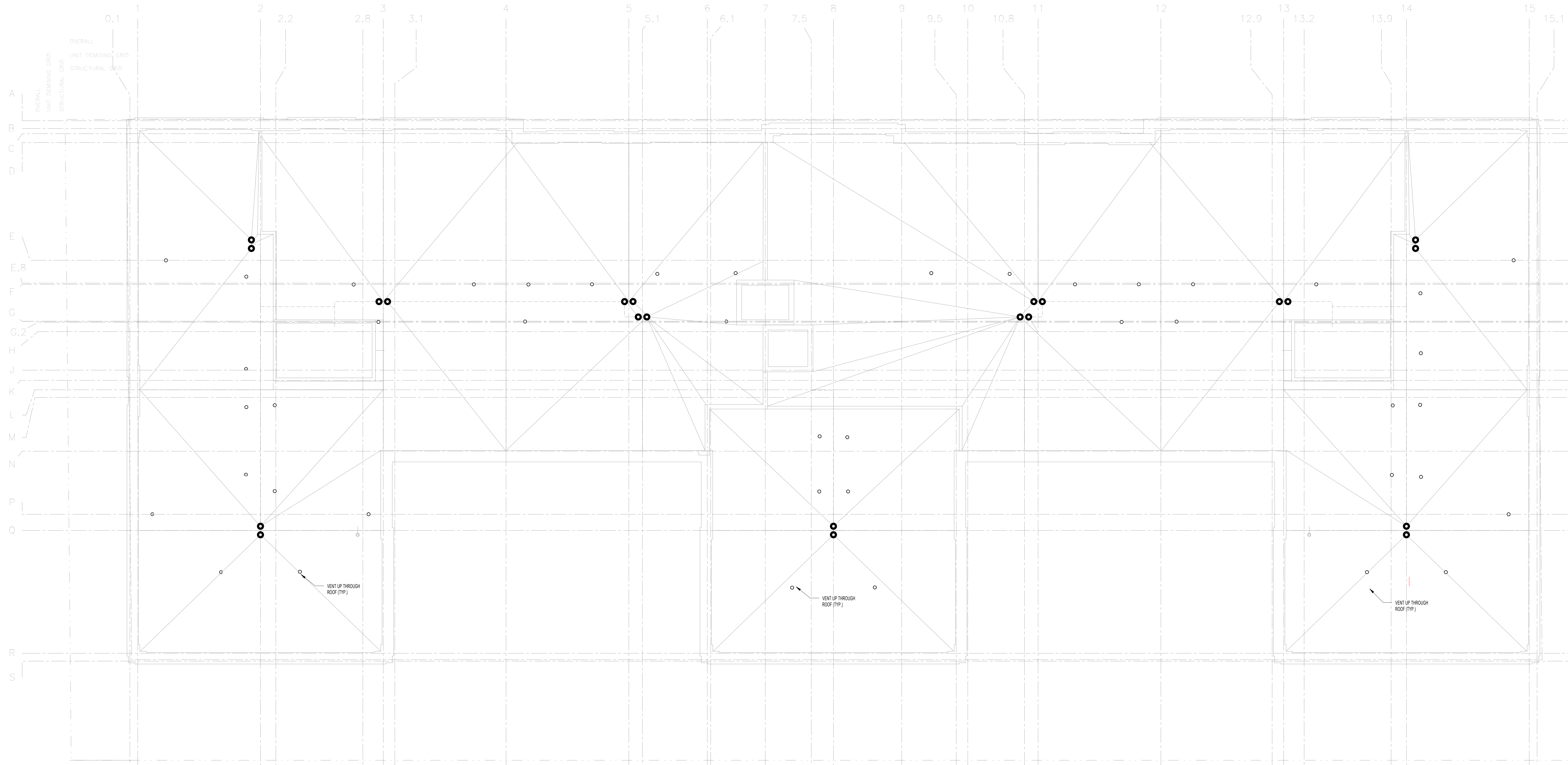
DRAWING TITLE: **PLUMBING THIRD FLOOR PLAN**

SCALE: 1/8" = 1'-0"
 DATE OF ISSUE: 05/12/2016
 OWNER'S SIGNATURE:

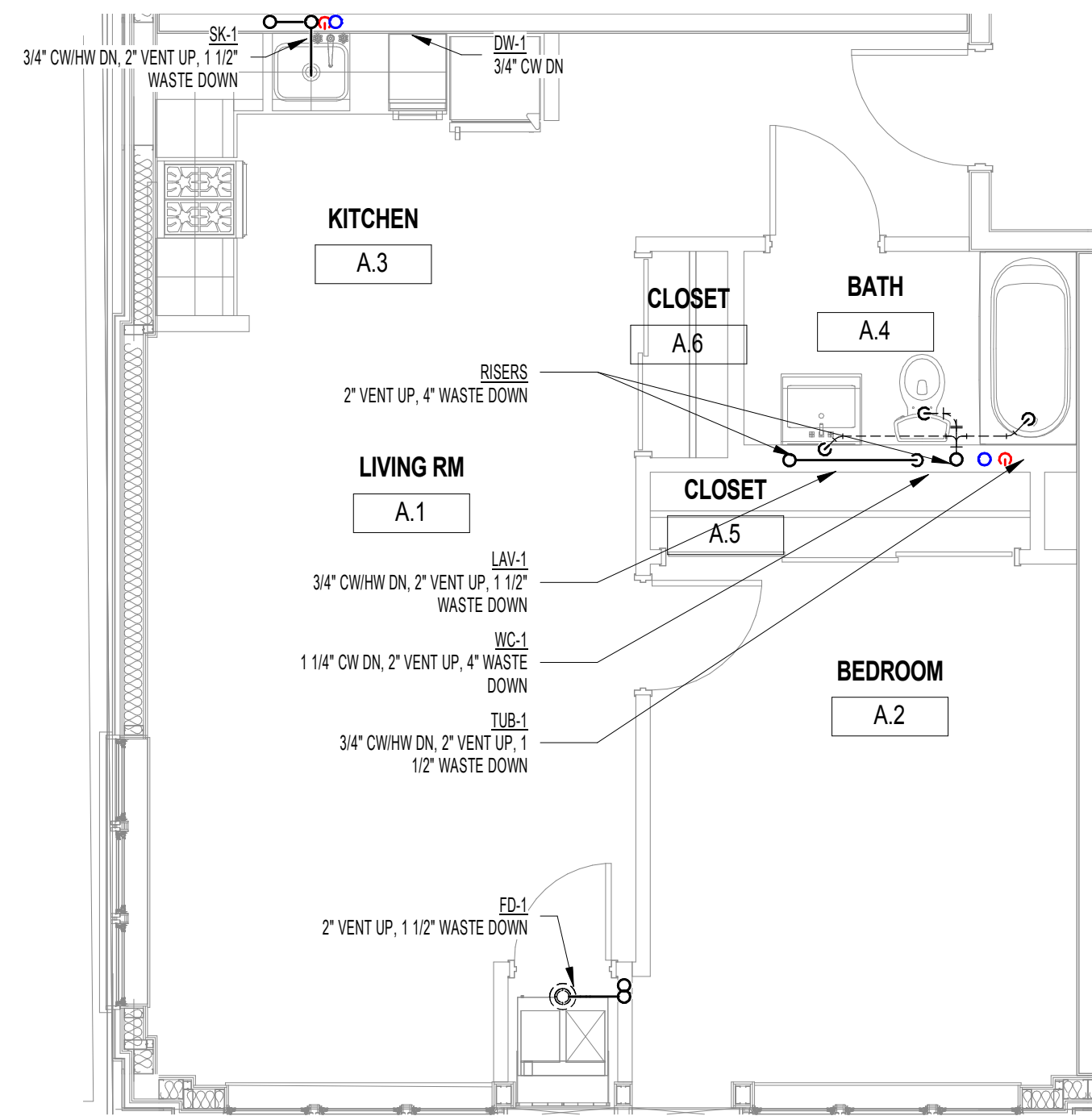
DRAWN BY: Author
 REVIEWED BY: Checker
 CONSULTANT'S SIGNATURE:

REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11		ISSUE FOR PROGRESS	05/12/2016	
10				
09				
08				
07				
06				
05				
04				
03				
02				
01				

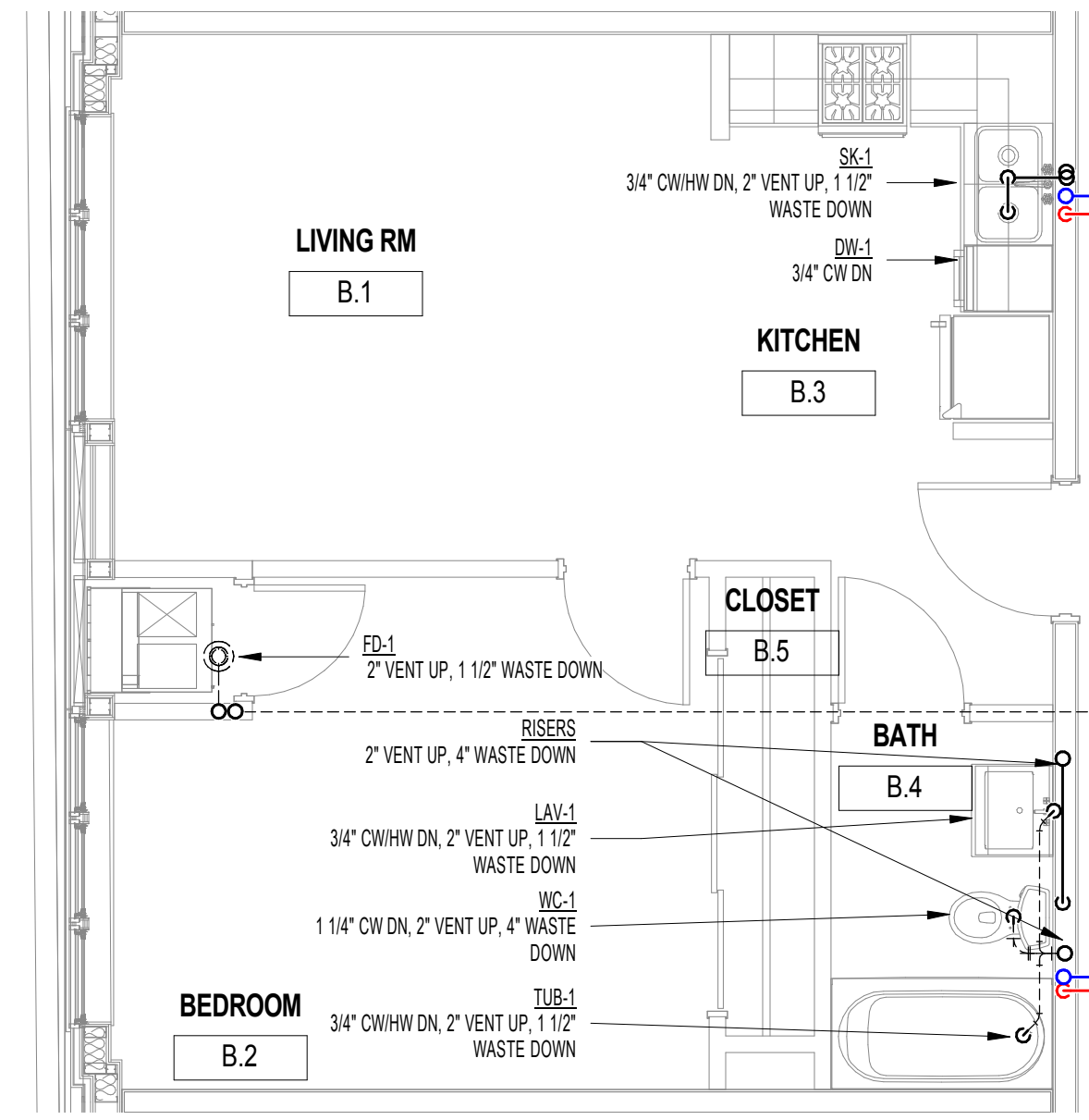
THIS DRAWING IS THE PROPERTY OF DDG INC. AND IS PROTECTED BY COPYRIGHT LAWS AND STATUTES PERTAINING TO THE SOLE RIGHT OF THE AUTHOR TO MAINTAIN UNLIMITED USE OF THIS DOCUMENT. THE USE OF THIS DRAWING IS LIMITED SOLELY FOR THE BENEFIT OF THIS PROJECT AND IS NOT TO BE USED, DUPLICATED, COPIED OR DISTRIBUTED FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AND DATED PERMISSION OF DDG INC.



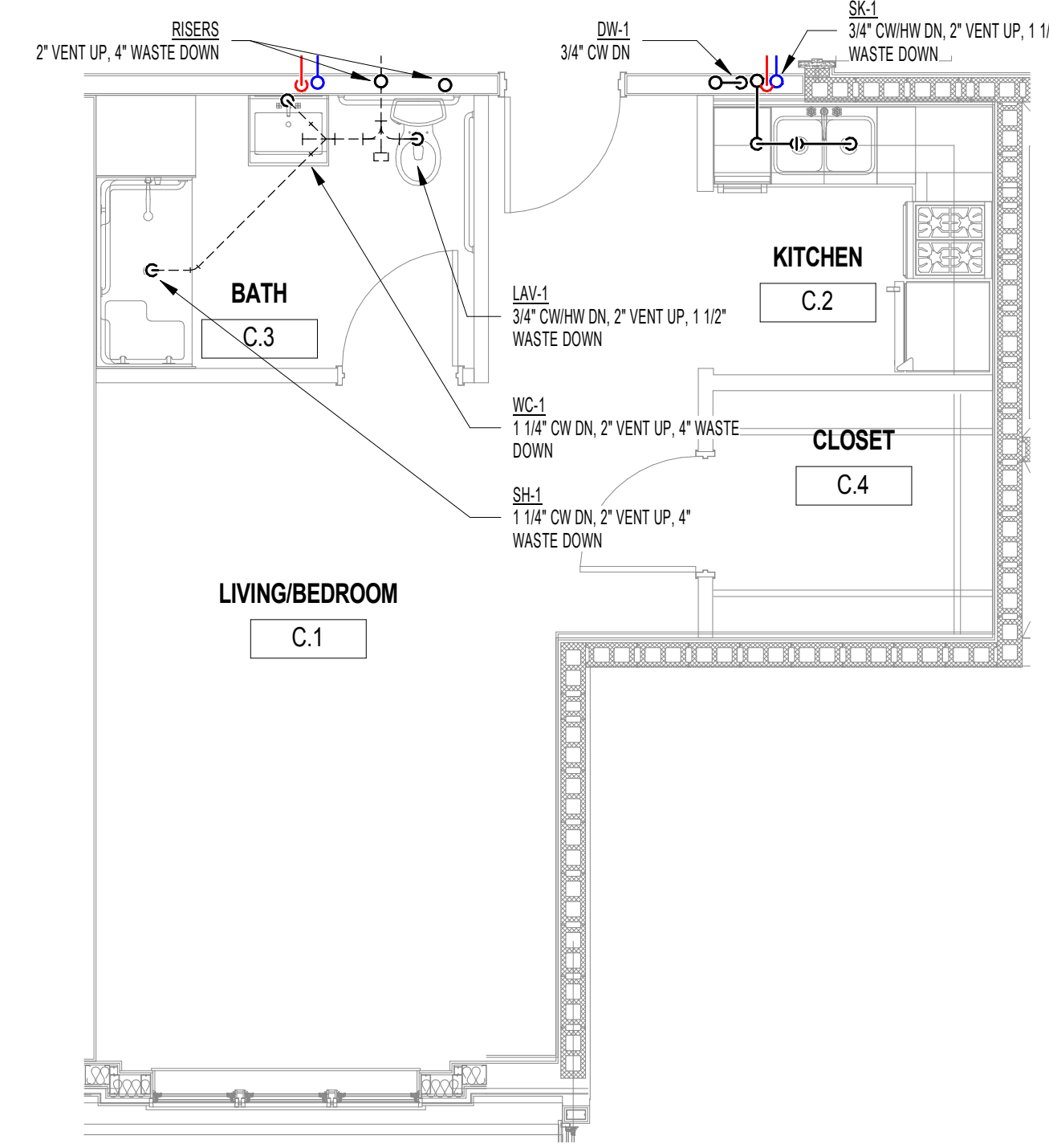
<p>M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108</p> <p>CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com</p>	<p>ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312-578 0550 (US), +91-987 021 9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com</p> <p>STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 133 South LaSalle Street, Suite 3050 Chicago, Illinois 60603 312.754.7300 fax: 312.754.7301 www.sgh.com</p>	<p>PROJECT: 5525 W DIVERSEY AVENUE PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603</p> <p>DRAWING TITLE: PLUMBING ROOF PLAN</p> <p>SCALE: 1/8" = 1'-0" DATE OF ISSUE: 05/12/2016 OWNER'S SIGNATURE:</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWING NO.</th> </tr> </thead> <tbody> <tr> <td>11</td> <td></td> <td>ISSUE FOR PROGRESS</td> <td>05/12/2016</td> <td rowspan="10" style="text-align: center; vertical-align: middle;">P-104</td> </tr> <tr><td>10</td><td></td><td></td><td></td></tr> <tr><td>09</td><td></td><td></td><td></td></tr> <tr><td>08</td><td></td><td></td><td></td></tr> <tr><td>07</td><td></td><td></td><td></td></tr> <tr><td>06</td><td></td><td></td><td></td></tr> <tr><td>05</td><td></td><td></td><td></td></tr> <tr><td>04</td><td></td><td></td><td></td></tr> <tr><td>03</td><td></td><td></td><td></td></tr> <tr><td>02</td><td></td><td></td><td></td></tr> <tr><td>01</td><td></td><td></td><td></td></tr> </tbody> </table>	REV.	BY	DESCRIPTION	DATE	DRAWING NO.	11		ISSUE FOR PROGRESS	05/12/2016	P-104	10				09				08				07				06				05				04				03				02				01			
REV.	BY	DESCRIPTION	DATE	DRAWING NO.																																																	
11		ISSUE FOR PROGRESS	05/12/2016	P-104																																																	
10																																																					
09																																																					
08																																																					
07																																																					
06																																																					
05																																																					
04																																																					
03																																																					
02																																																					
01																																																					



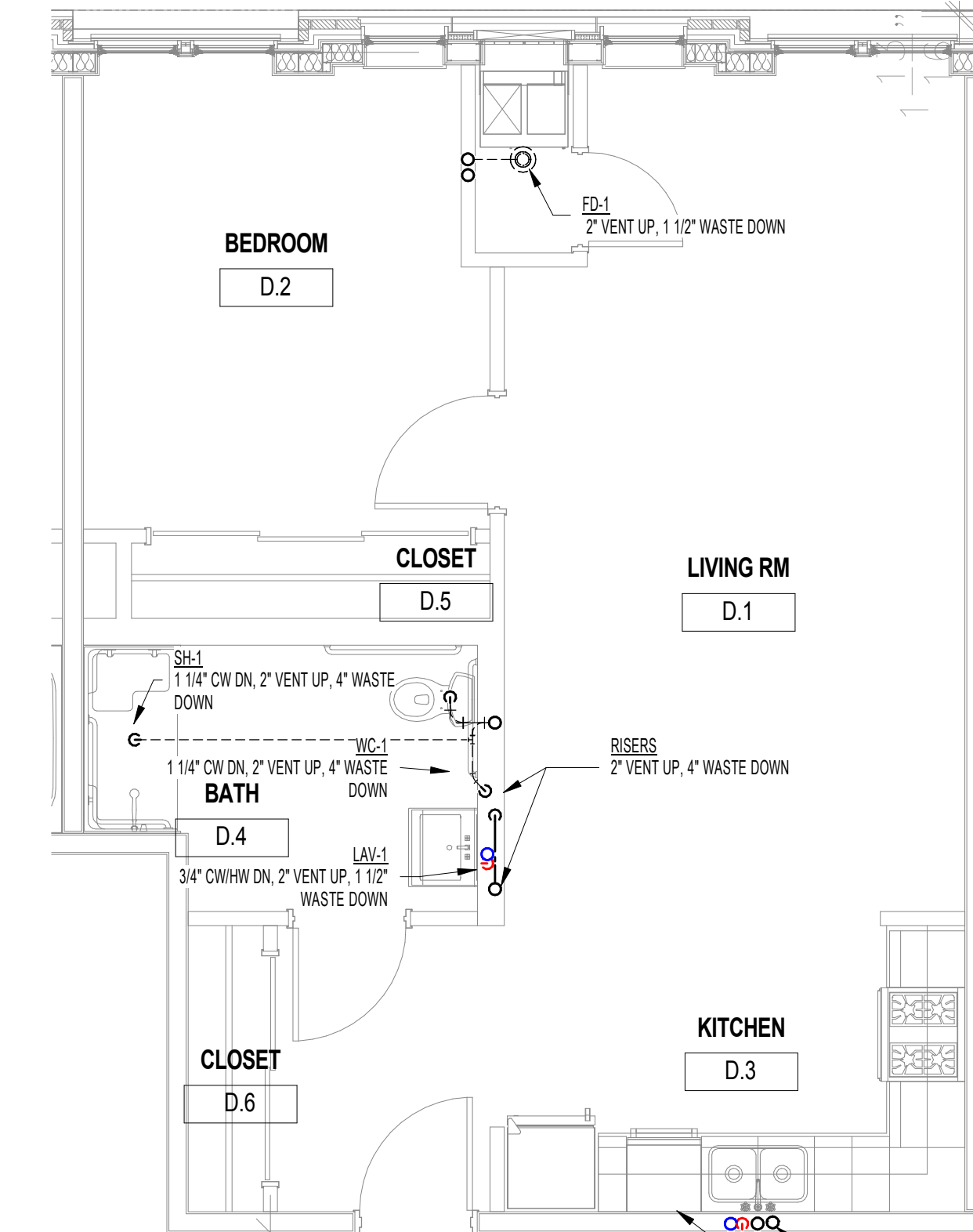
1 ENLARGED PLUMBING PLAN - TYPE A
1/4" = 1'-0"



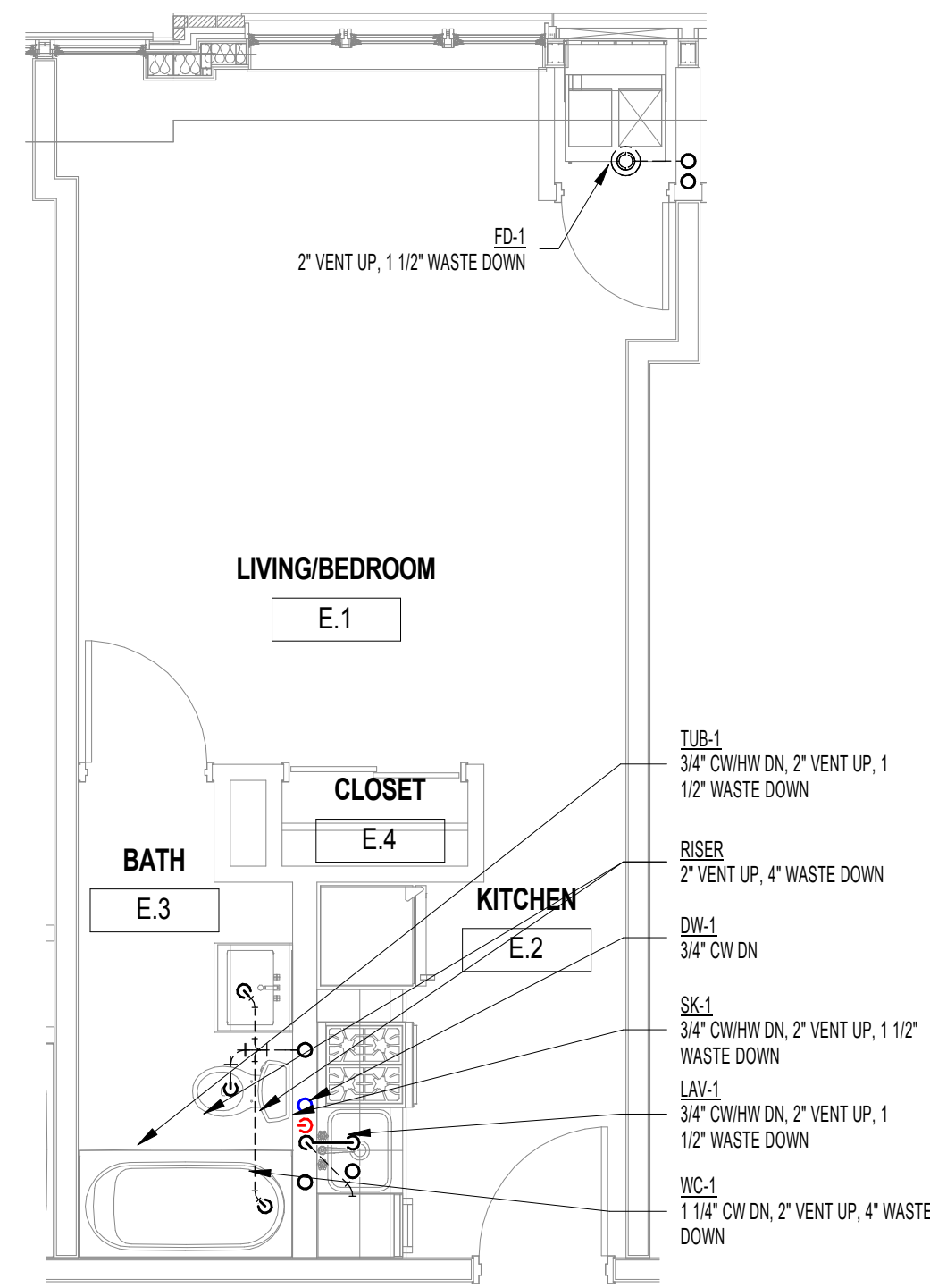
2 ENLARGED PLUMBING PLAN - TYPE B
1/4" = 1'-0"



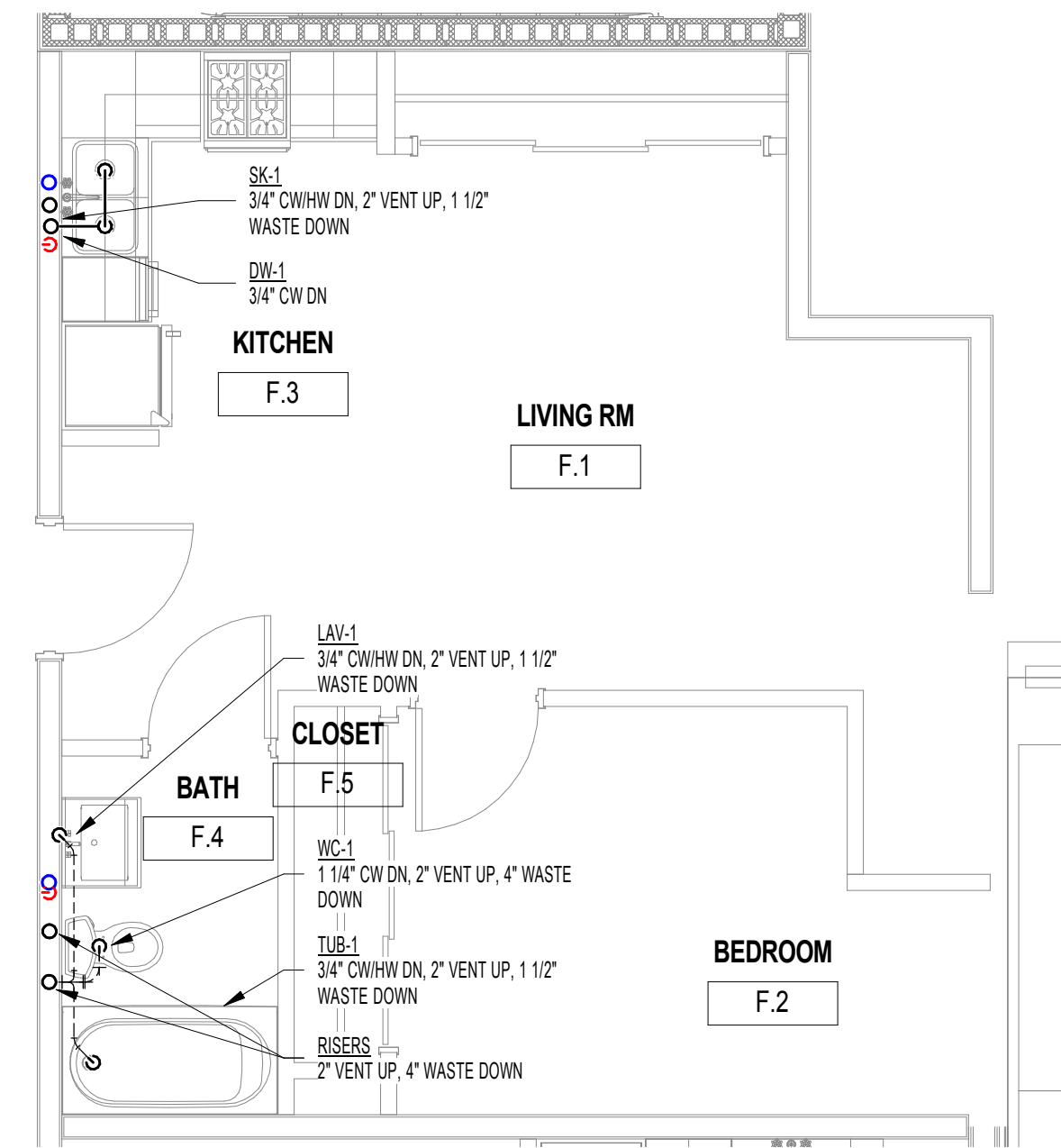
3 ENLARGED PLUMBING PLAN - TYPE C
1/4" = 1'-0"



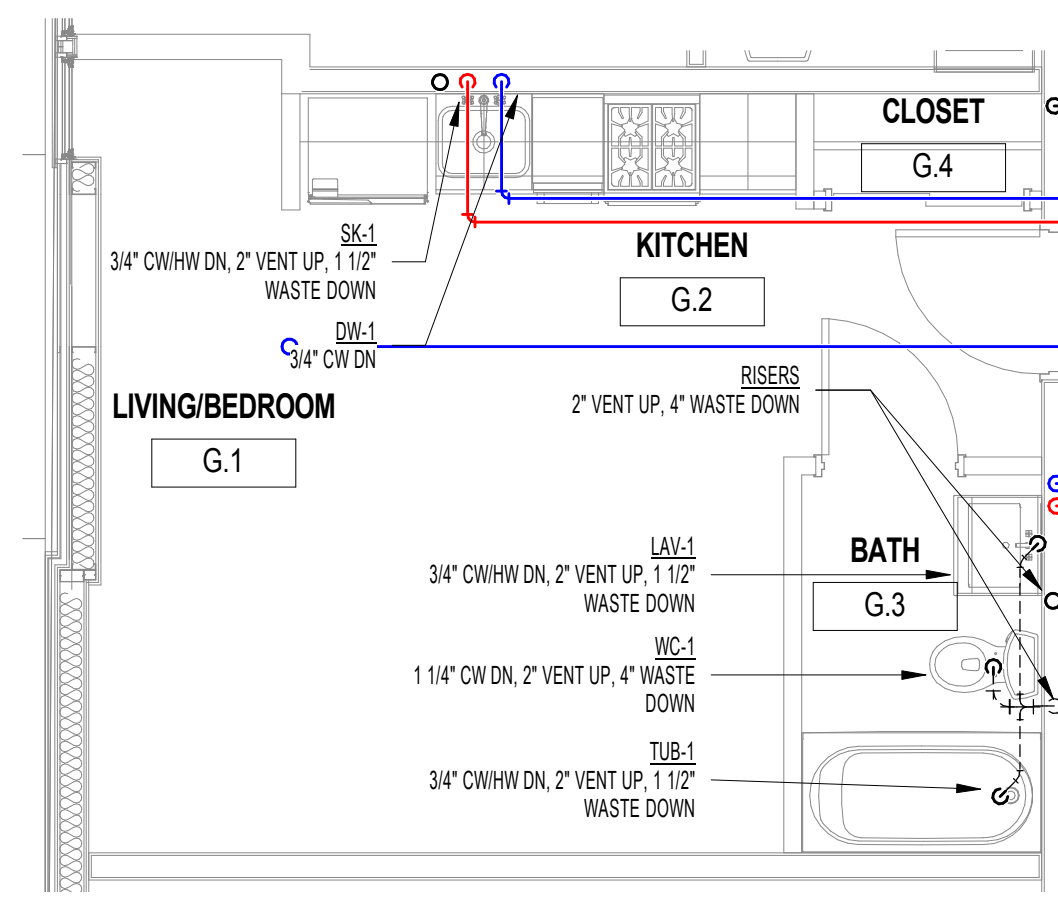
4 ENLARGED PLUMBING PLAN - TYPE D
1/4" = 1'-0"



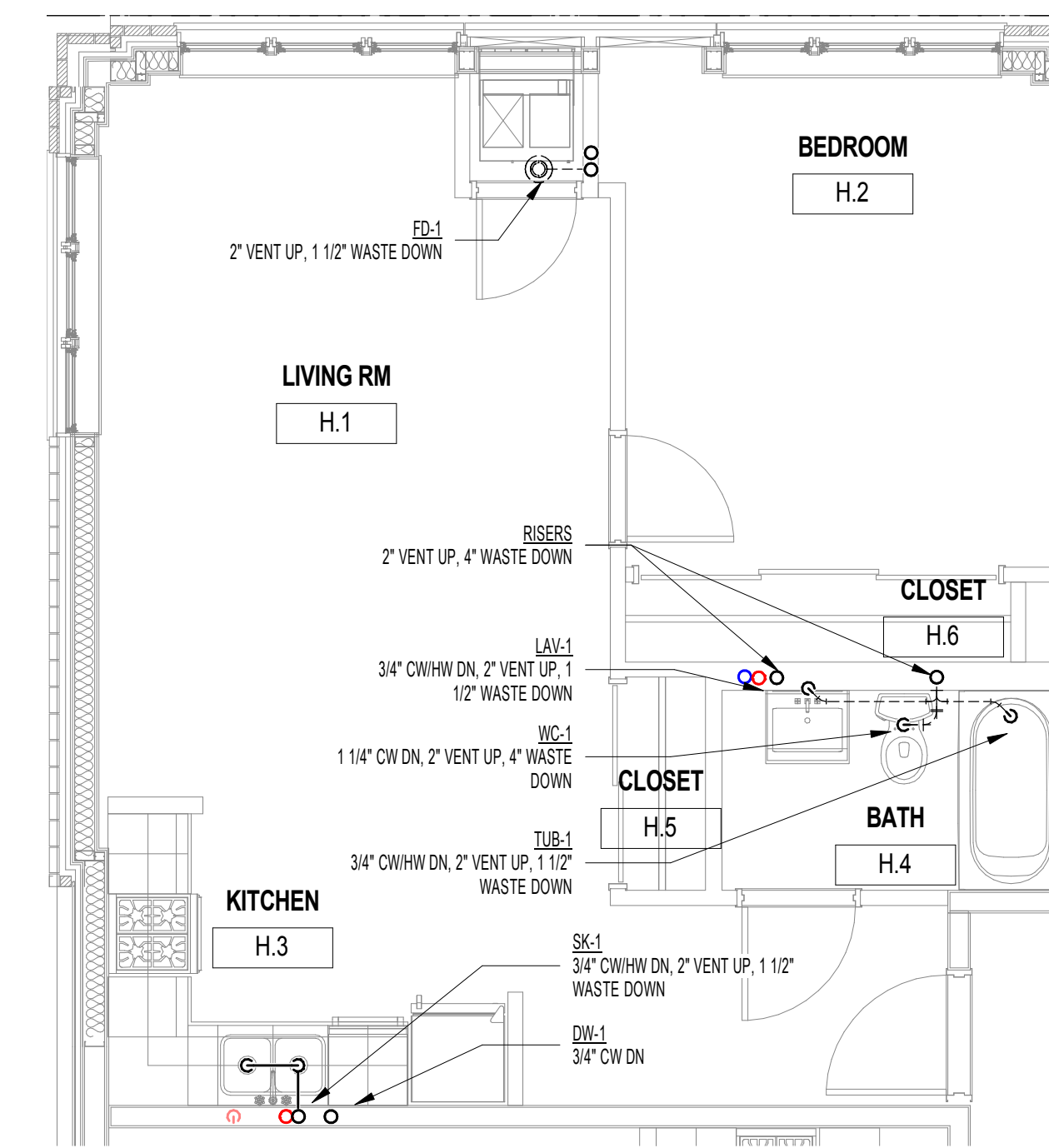
5 ENLARGED PLUMBING PLAN - TYPE E
1/4" = 1'-0"



6 ENLARGED PLUMBING PLAN - TYPE F
1/4" = 1'-0"



7 ENLARGED PLUMBING PLAN - TYPE G
1/4" = 1'-0"



8 ENLARGED PLUMBING PLAN - TYPE H
1/4" = 1'-0"

M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
135 South La Salle Street
Chicago, IL 60604
T: 312 982 2108



CONTRACTOR:
KINZIE CONSTRUCTION GROUP
116 W Illinois St
Chicago, IL 60654

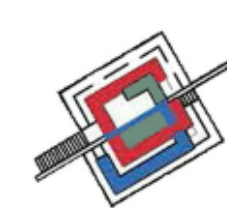


T: (312) 464-8800
W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
29 E Madison Street, Suite 1309
Chicago, IL 60602 (USA)
69A Nepeansea Road, Manisha 1st Flr
Mumbai 400006 (INDIA)
T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
E: contact@csa-partners.com
W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER

Engineering of Structures
and Building Enclosures
Simpson Gumpertz & Heger Inc.
133 South LaSalle Street, Suite 3950
Chicago, Illinois 60603
312.754.7300
fax: 312.754.7301
www.sgh.com



PROJECT: 5525 W DIVERSEY AVENUE

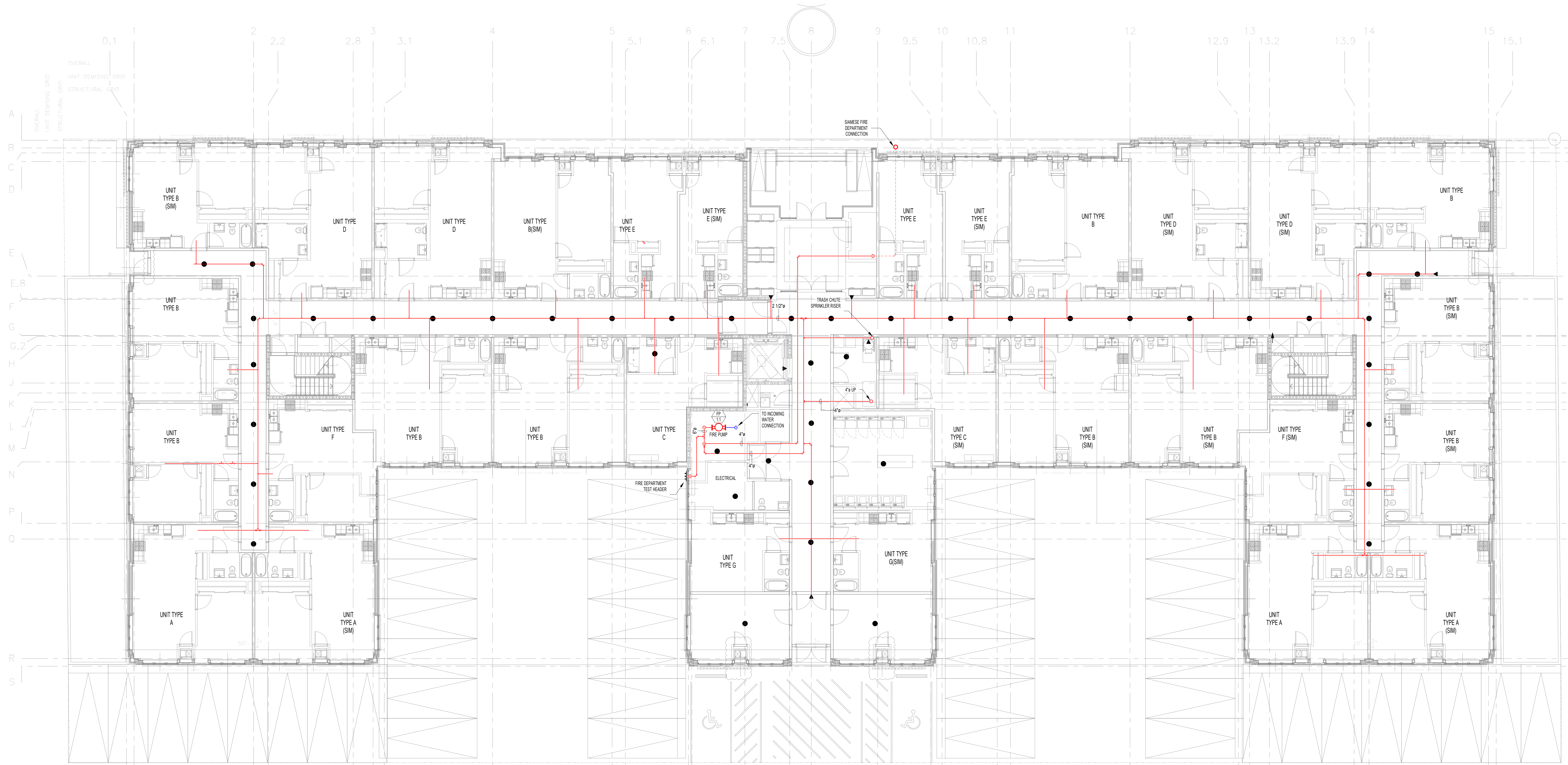
PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

DRAWING TITLE: PLUMBING ENLARGED PLANS

SCALE: 1/4" = 1'-0"
DATE OF ISSUE: 05/12/2016
OWNER'S SIGNATURE:

DRAWN BY: Author
REVIEWED BY: Checker
CONSULTANT'S SIGNATURE:

REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11		ISSUE FOR PROGRESS	05/12/2016	P-500
10				
09				
08				
07				
06				
05				
04				
03				
02				
01				



M.E.P./FP ENGINEERS:
DILIGENT DESIGN GROUP
 135 South La Salle Street
 Chicago, IL 60604
 T: 312 982 2108

CONTRACTOR:
KINZIE CONSTRUCTION GROUP
 116 W Illinois St
 Chicago, IL 60654
 T: (312) 464-8800
 W: www.kinziegroup.com

ARCHITECTS:
CSA PARTNERS LTD.
 29 E Madison Street, Suite 1309
 Chicago, IL 60602 (USA)
 69A Nepeansea Road, Manisha 1st Flr
 Mumbai 400006 (INDIA)
 T: 1-312-578-0550 (US), +91-987 021 9229 (IN)
 E: contact@csa-partners.com
 W: www.csa-partners.com

STRUCTURAL CONSULTANTS:
SIMPSON GUMPERTZ & HEGER
 Engineering of Structures
 and Building Enclosures
 Simpson Gumpertz & Heger Inc.
 133 South LaSalle Street, Suite 3050
 Chicago, Illinois 60603
 312.754.7300
 fax: 312.754.7301
 www.sgh.com

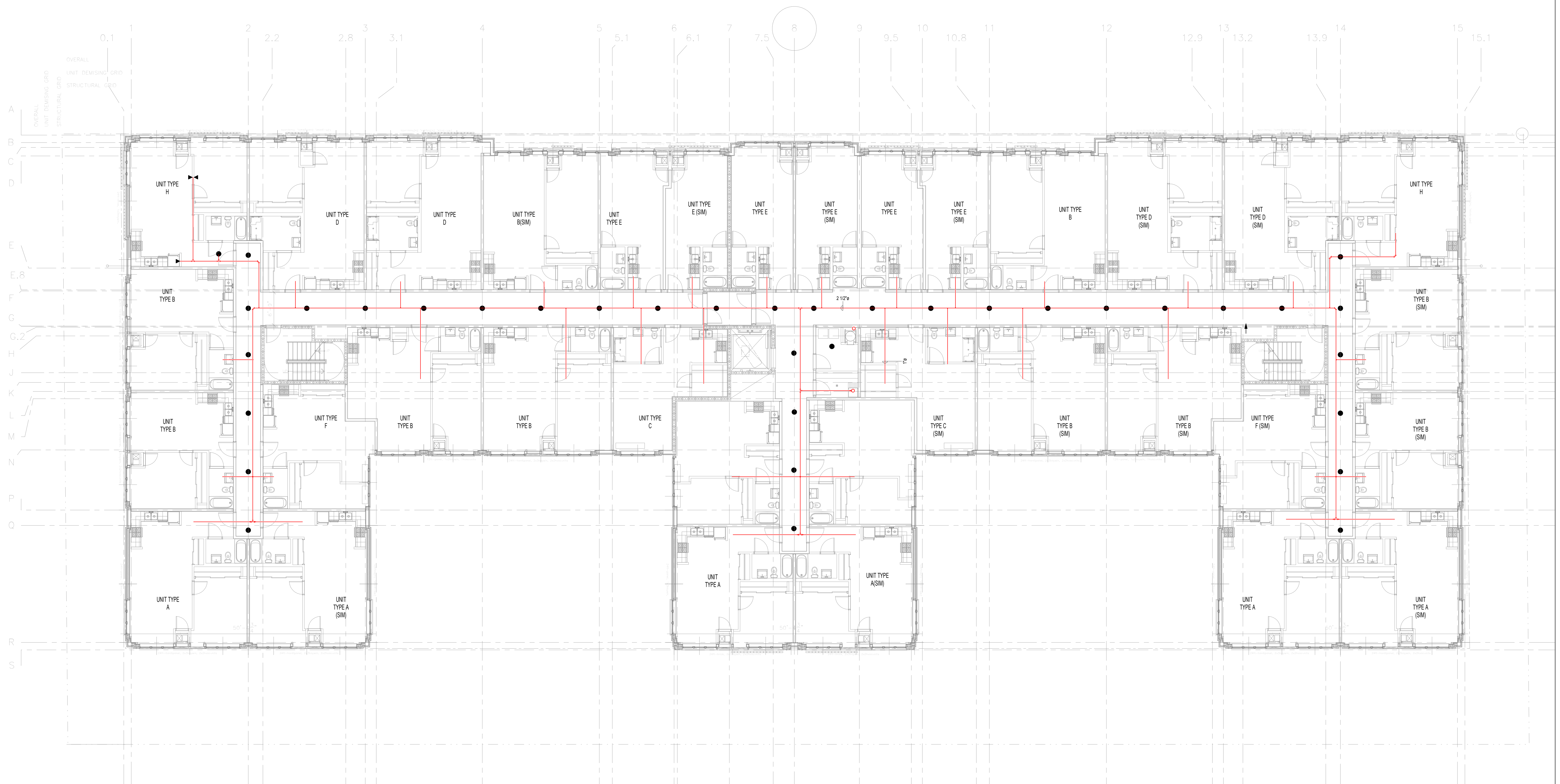
PROJECT: 5525 W DIVERSEY AVENUE
 PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639
 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION
 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603

DRAWING TITLE: **FIRE PROTECTION FIRST FLOOR PLAN**

SCALE: 1/8" = 1'-0"
 DATE OF ISSUE: 05/12/2016
 OWNER'S SIGNATURE:

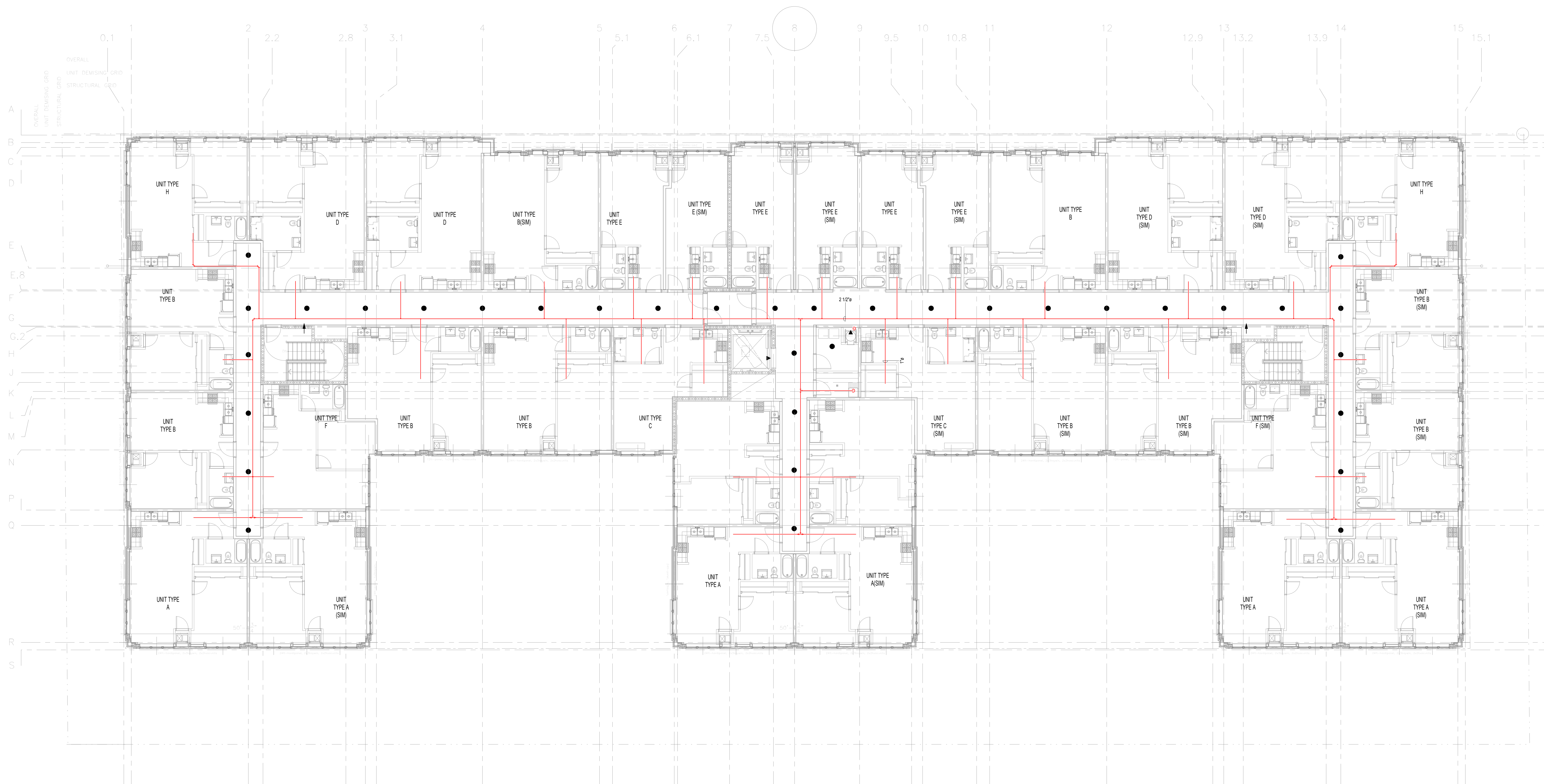
DRAWN BY: Author
 REVIEWED BY: Checker
 CONSULTANT'S SIGNATURE:

REV.	BY	DESCRIPTION	DATE	DRAWING NO.
11		ISSUE FOR PROGRESS	05/12/2016	FP-101
10				
09				
08				
07				
06				
05				
04				
03				
02				
01				

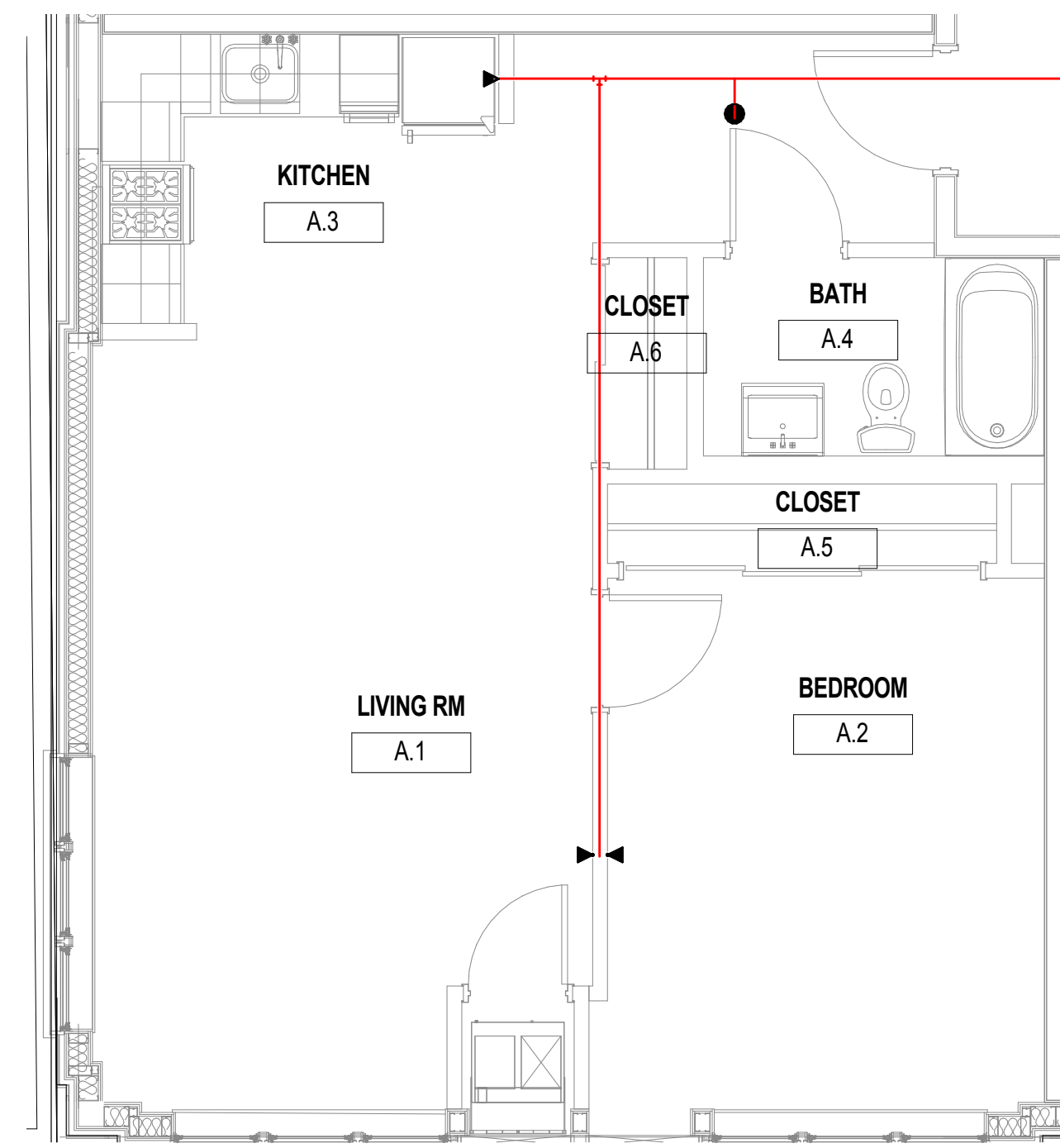


<p>M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108</p> <p>CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com</p>	 	<p>ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312-578-0550 (US), +91-987 021 9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com</p> <p>STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 133 South LaSalle Street, Suite 3050 Chicago, Illinois 60603 312.754.7300 fax: 312.754.7301 www.sgh.com</p>	<p>PROJECT: 5525 W DIVERSEY AVENUE</p> <p>PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603</p> <p>DRAWING TITLE: FIRE PROTECTION SECOND FLOOR</p> <p>SCALE: PLAN 1/8" = 1'-0" DATE OF ISSUE: 05/12/2016 OWNER'S SIGNATURE: _____</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr><td>11</td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td>ISSUE FOR PROGRESS</td><td>05/12/2016</td></tr> <tr><td>09</td><td></td><td></td><td></td></tr> <tr><td>08</td><td></td><td></td><td></td></tr> <tr><td>07</td><td></td><td></td><td></td></tr> <tr><td>06</td><td></td><td></td><td></td></tr> <tr><td>05</td><td></td><td></td><td></td></tr> <tr><td>04</td><td></td><td></td><td></td></tr> <tr><td>03</td><td></td><td></td><td></td></tr> <tr><td>02</td><td></td><td></td><td></td></tr> <tr><td>01</td><td></td><td></td><td></td></tr> </tbody> </table>	REV.	BY	DESCRIPTION	DATE	11				10		ISSUE FOR PROGRESS	05/12/2016	09				08				07				06				05				04				03				02				01				<p>DRAWING NO.</p> <p style="text-align: center; font-size: 24pt; font-weight: bold;">FP-102</p>
REV.	BY	DESCRIPTION	DATE																																																		
11																																																					
10		ISSUE FOR PROGRESS	05/12/2016																																																		
09																																																					
08																																																					
07																																																					
06																																																					
05																																																					
04																																																					
03																																																					
02																																																					
01																																																					

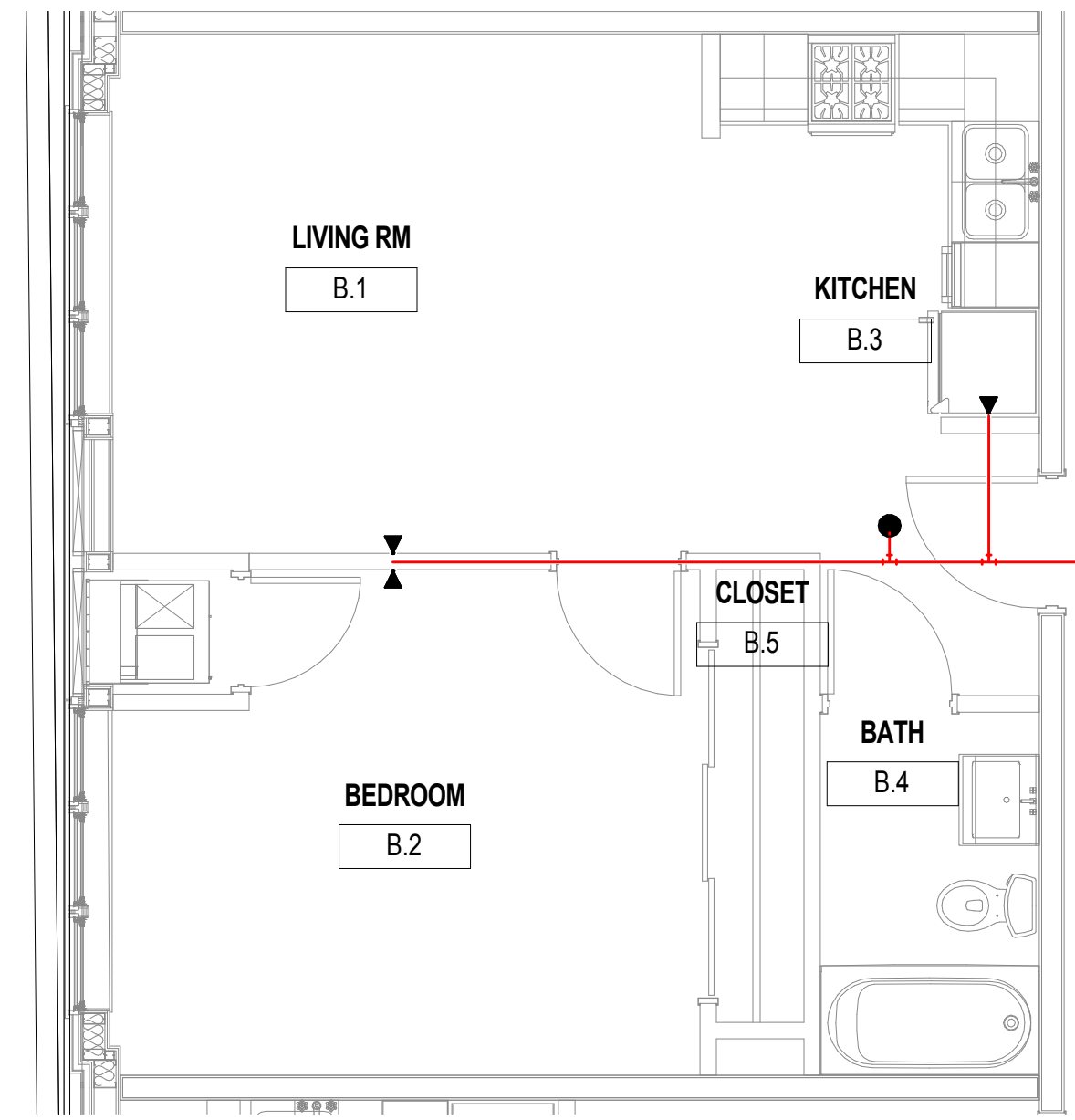
THIS DRAWING IS THE PROPERTY OF DDG INC. AND IS PROTECTED BY COPYRIGHT LAWS AND STATUTES PERTAINING TO THE SOLE RIGHT OF THE AUTHOR TO MAINTAIN UNLIMITED USE OF THIS DOCUMENT. THE USE OF THIS DRAWING IS LIMITED SOLELY FOR THE BENEFIT OF THIS PROJECT AND IS NOT TO BE USED, DUPLICATED, COPIED OR DISTRIBUTED FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AND DATED PERMISSION OF DDG INC.



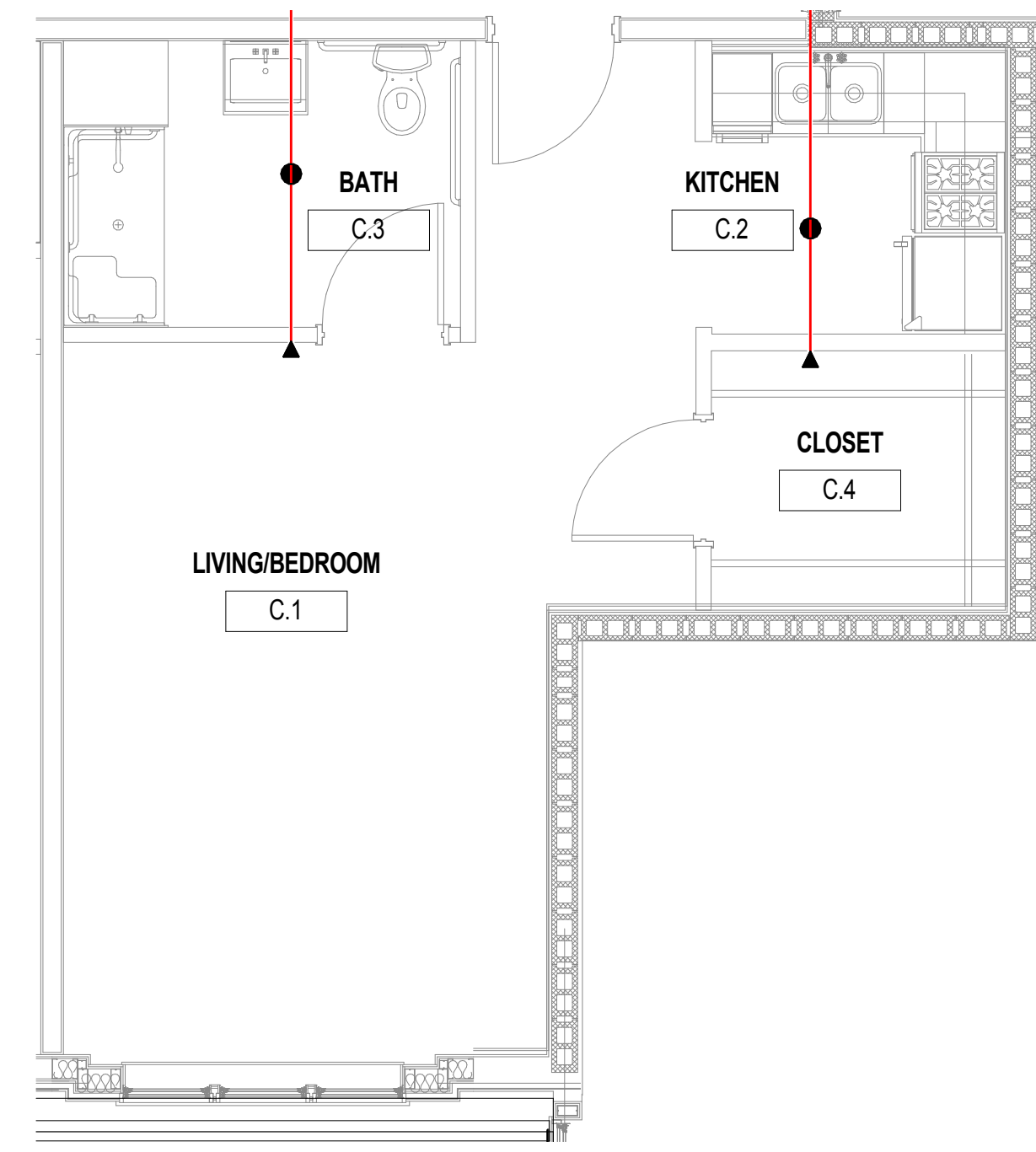
<p>THIS DRAWING IS THE PROPERTY OF DDG INC. AND IS PROTECTED BY COPYRIGHT LAWS AND STATUTES PERTAINING TO THE SOLE RIGHT OF THE AUTHOR TO MAINTAIN UNLIMITED USE OF THIS DOCUMENT. THE USE OF THIS DRAWING IS LIMITED SOLELY FOR THE BENEFIT OF THIS PROJECT AND IS NOT TO BE USED, DUPLICATED, COPIED OR DISTRIBUTED FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AND DATED PERMISSION OF DDG INC.</p>	<p>M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108</p> <p>CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com</p>	<p>ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312-578-0550 (US), +91-987 021 9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com</p> <p>STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 133 South LaSalle Street, Suite 3050 Chicago, Illinois 60603 312.754.7300 fax: 312.754.7301 www.sgh.com</p>	<p>PROJECT: 5525 W DIVERSEY AVENUE PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639 OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603</p> <p>DRAWING TITLE: FIRE PROTECTION THIRD FLOOR</p> <p>SCALE: PLAN 1/8" = 1'-0" DATE OF ISSUE: 05/12/2016 OWNER'S SIGNATURE:</p>	<p>DRAWN BY: Author REVIEWED BY: Checker CONSULTANT'S SIGNATURE:</p>	<table border="1"> <thead> <tr> <th>REV.</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DRAWING NO.</th> </tr> </thead> <tbody> <tr> <td>11</td> <td></td> <td>ISSUE FOR PROGRESS</td> <td>05/12/2016</td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>09</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>08</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>07</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>06</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>05</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>04</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>03</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>02</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>01</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	REV.	BY	DESCRIPTION	DATE	DRAWING NO.	11		ISSUE FOR PROGRESS	05/12/2016		10					09					08					07					06					05					04					03					02					01					<p>FP-103</p>
REV.	BY	DESCRIPTION	DATE	DRAWING NO.																																																														
11		ISSUE FOR PROGRESS	05/12/2016																																																															
10																																																																		
09																																																																		
08																																																																		
07																																																																		
06																																																																		
05																																																																		
04																																																																		
03																																																																		
02																																																																		
01																																																																		



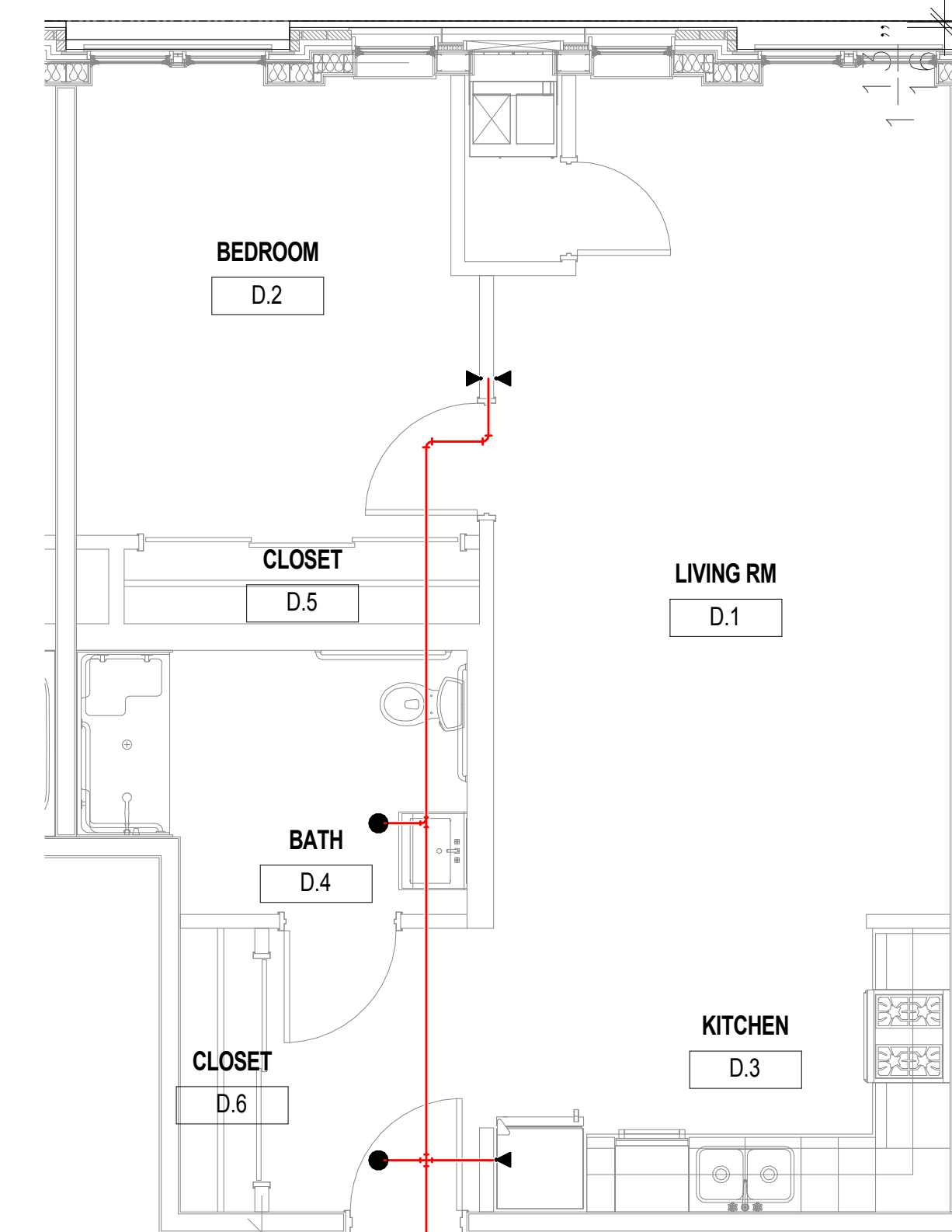
1 ENLARGED FIRE PROTECTION PLAN - TYPE A
1/4" = 1'-0"



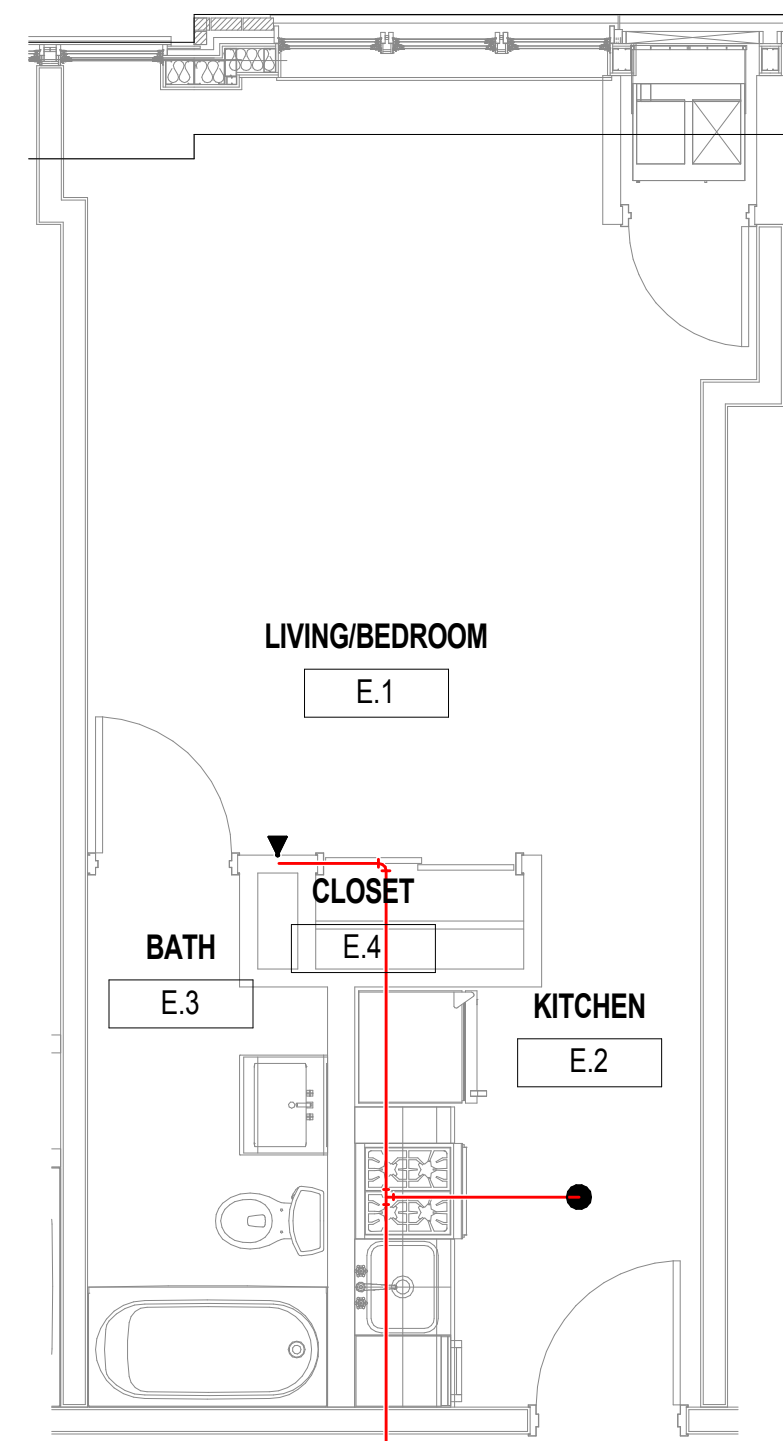
2 ENLARGED FIRE PROTECTION PLAN - TYPE B
1/4" = 1'-0"



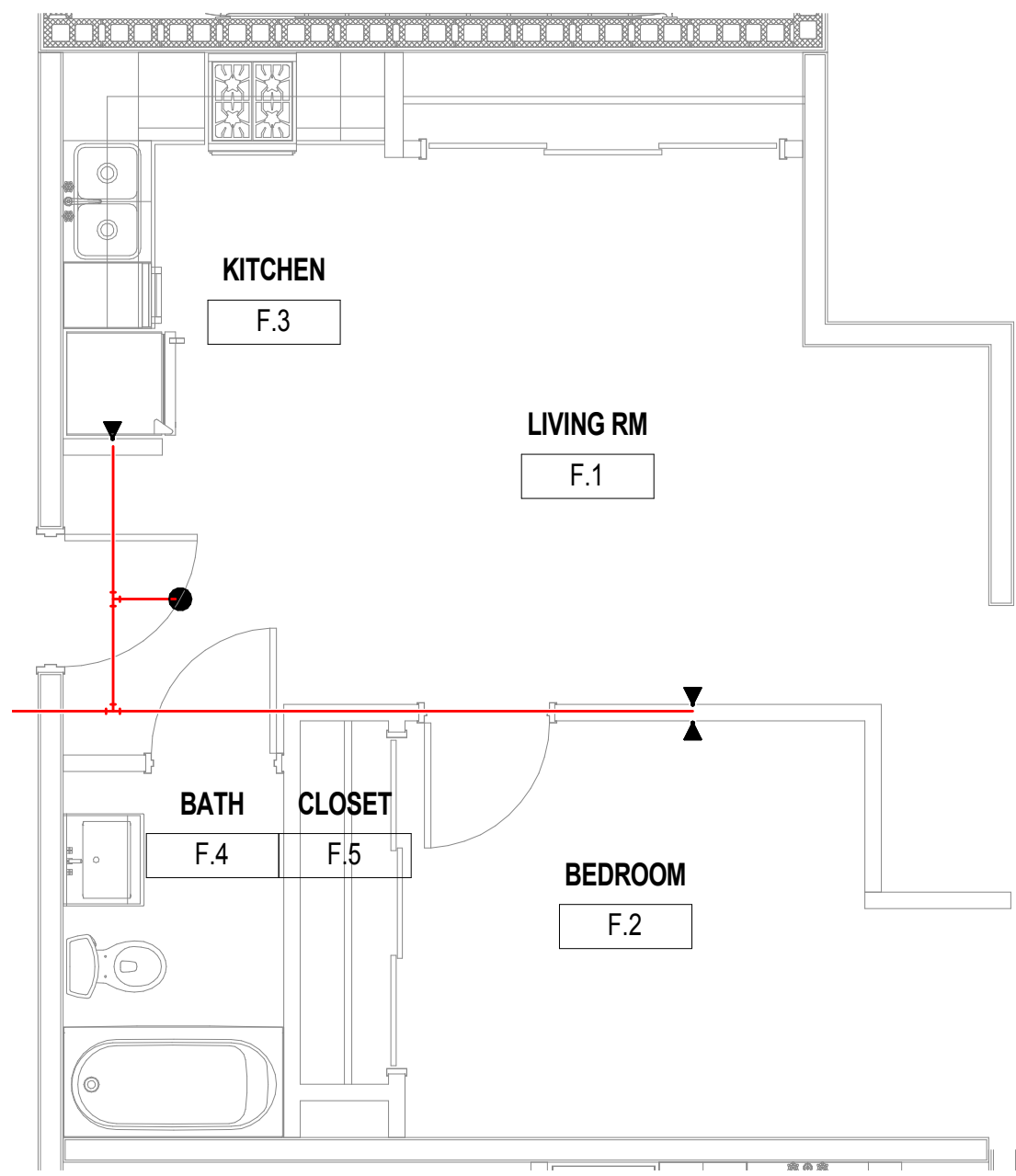
3 ENLARGED FIRE PROTECTION PLAN - TYPE C
1/4" = 1'-0"



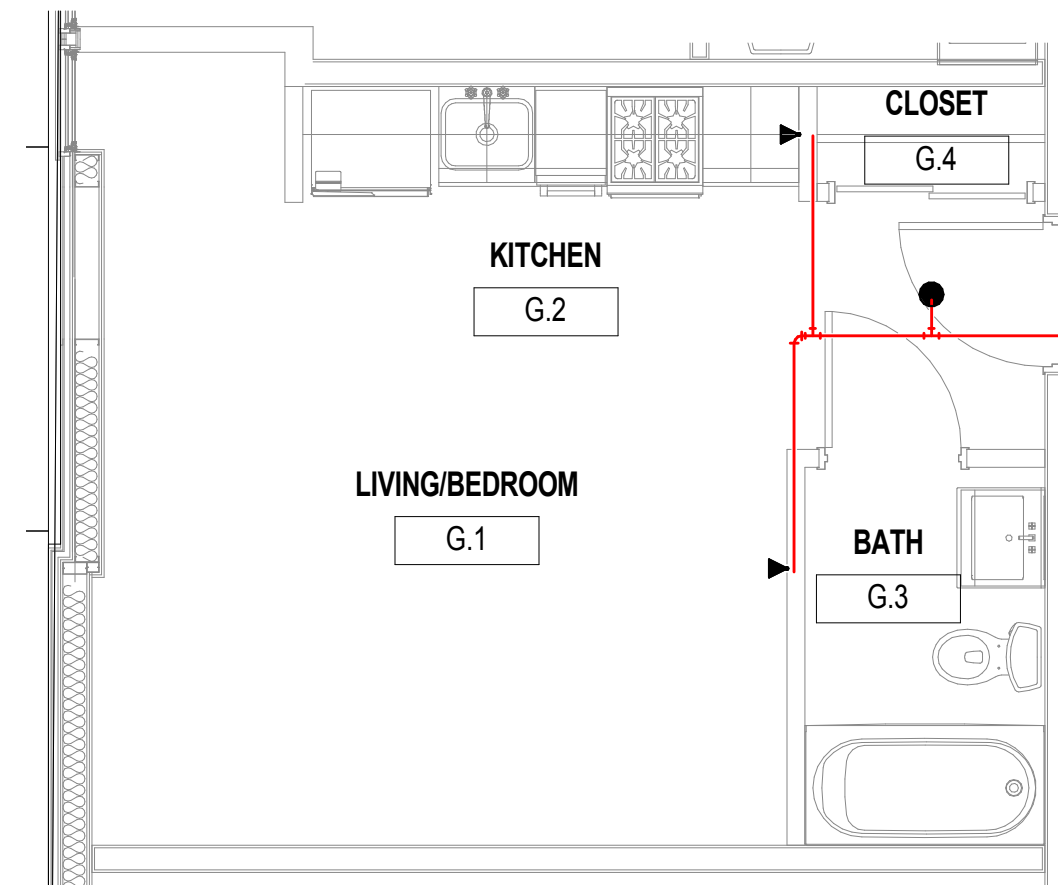
4 ENLARGED FIRE PROTECTION PLAN - TYPE D
1/4" = 1'-0"



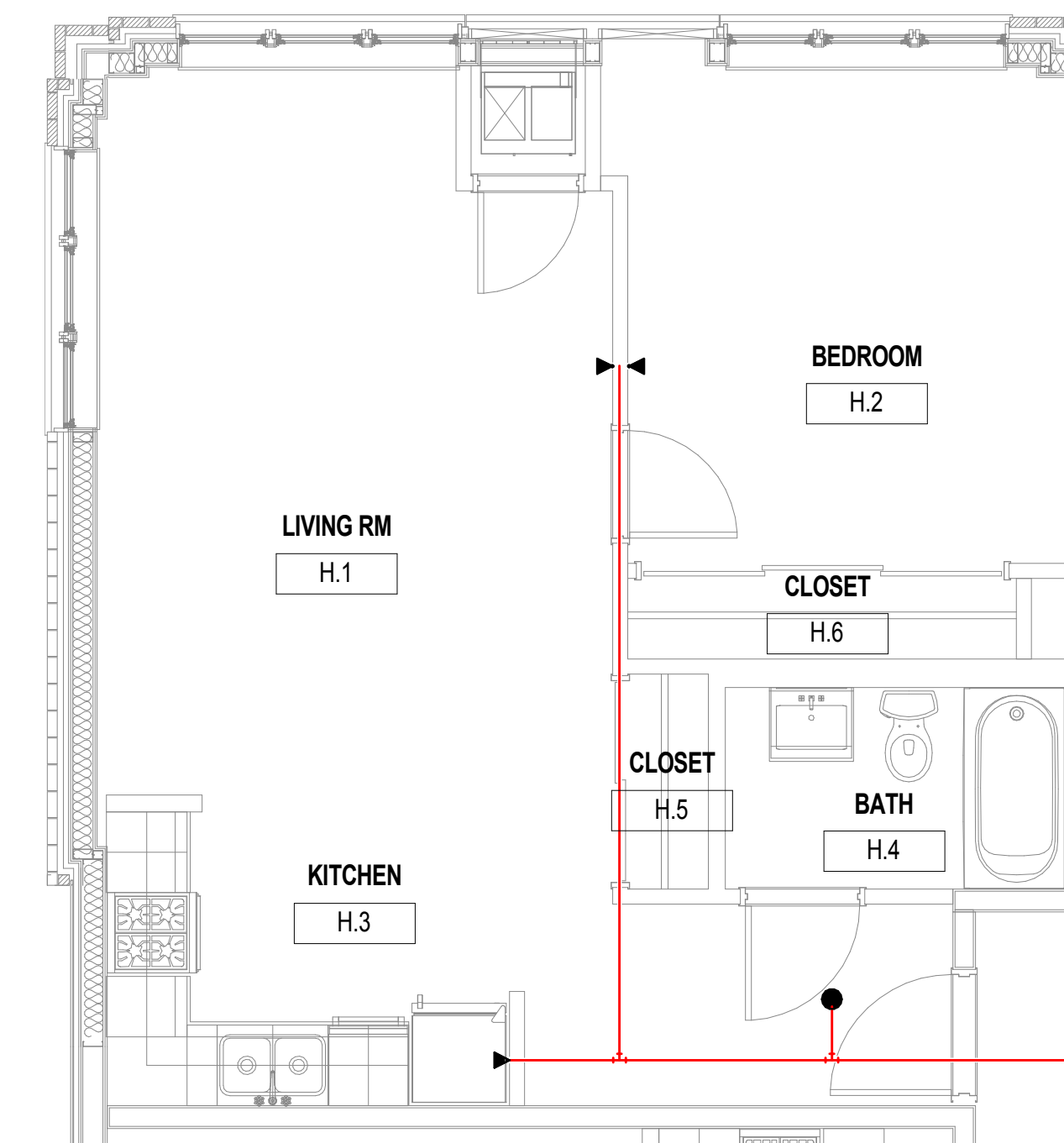
5 ENLARGED FIRE PROTECTION PLAN - TYPE E
1/4" = 1'-0"



6 ENLARGED FIRE PROTECTION PLAN - TYPE F
1/4" = 1'-0"



7 ENLARGED FIRE PROTECTION PLAN - TYPE G
1/4" = 1'-0"



8 ENLARGED FIRE PROTECTION PLAN - TYPE H
1/4" = 1'-0"

FIRE PROTECTION EQUIPMENT SCHEDULE										
EQUIPMENT	TAG	MANUFACTURER	MODEL NUMBER	RATED CAPACITY	RATED PRESSURE	SHUTT-OFF PRESSURE	POWER	RPM	VOLTS	PHASE
FIRE PUMP	FP-1	GRUNDFOS	3PWF8-1-UL-17-P-W-E-R	X	52.6 PSI	X	10 hp	3500	208	3
JOCKEY PUMP	JP-1	GRUNDFOS	CR	X	X	X	X	X	208	3

9 FIRE PROTECTION EQUIPMENT SCHEDULE
1/8" = 1'-0"

<p>M.E.P./FP ENGINEERS: DILIGENT DESIGN GROUP 135 South La Salle Street Chicago, IL 60604 T: 312 982 2108</p> <p>CONTRACTOR: KINZIE CONSTRUCTION GROUP 116 W Illinois St Chicago, IL 60654 T: (312) 464-8800 W: www.kinziegroup.com</p>	<p>ARCHITECTS: CSA PARTNERS LTD. 29 E Madison Street, Suite 1309 Chicago, IL 60602 (USA) 69A Nepeansea Road, Manisha 1st Flr Mumbai 400006 (INDIA) T: 1-312 578 0550 (US), +91-987 021 9229 (IN) E: contact@csa-partners.com W: www.csa-partners.com</p> <p>STRUCTURAL CONSULTANTS: SIMPSON GUMPERTZ & HEGER Engineering of Structures and Building Enclosures Simpson Gumpertz & Heger Inc. 133 South LaSalle Street, Suite 3500 Chicago, Illinois 60603 312.754.7300 fax: 312.754.7301 www.sgh.com</p>	<p>PROJECT: 5525 W DIVERSEY AVENUE</p> <p>PROJECT LOCATION: 5525 W DIVERSEY AVE. CHICAGO IL 60639</p> <p>OWNER/ DEVELOPER: METROPOLITAN HOUSING DEVELOPMENT CORPORATION 8 SOUTH MICHIGAN AVE. SUITE 3100, CHICAGO, IL 60603</p> <p>DRAWING TITLE: FIRE PROTECTION ENLARGED PLANS</p> <p>SCALE: As indicated DATE OF ISSUE: 05/12/2016 OWNER'S SIGNATURE:</p> <p>DRAWN BY: Author REVIEWED BY: Checker CONSULTANT'S SIGNATURE:</p>	<p>REV. BY DESCRIPTION DATE DRAWING NO.</p> <p>11 10 09 08 07 06 05 04 03 02 01</p>	<p>05/12/2016</p>	<p>FP-500</p>
			<p>THIS DRAWING IS THE PROPERTY OF DDG INC. AND IS PROTECTED BY COPYRIGHT LAWS AND STATUTES PERTAINING TO THE SOLE RIGHT OF THE AUTHOR TO MAINTAIN UNLIMITED USE OF THIS DOCUMENT. THE USE OF THIS DRAWING IS LIMITED SOLELY FOR THE BENEFIT OF THIS PROJECT AND IS NOT TO BE USED, DUPLICATED, COPIED OR DISTRIBUTED FOR ANY OTHER PROJECT OR FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AND DATED PERMISSION OF DDG INC.</p>		