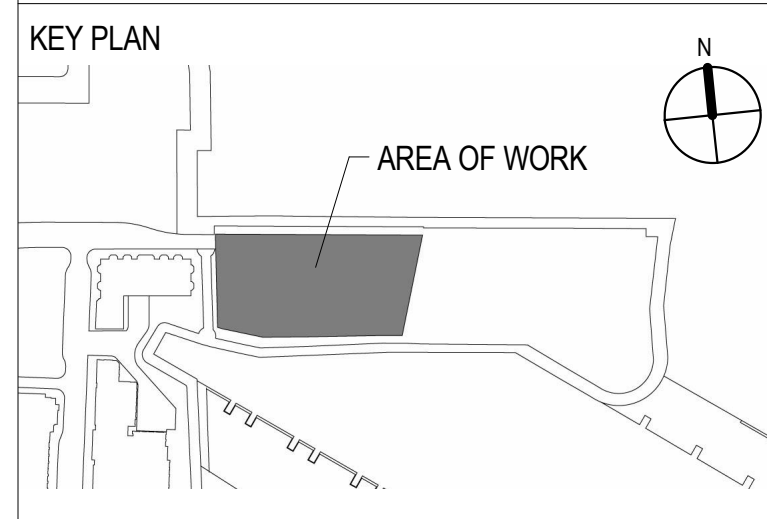
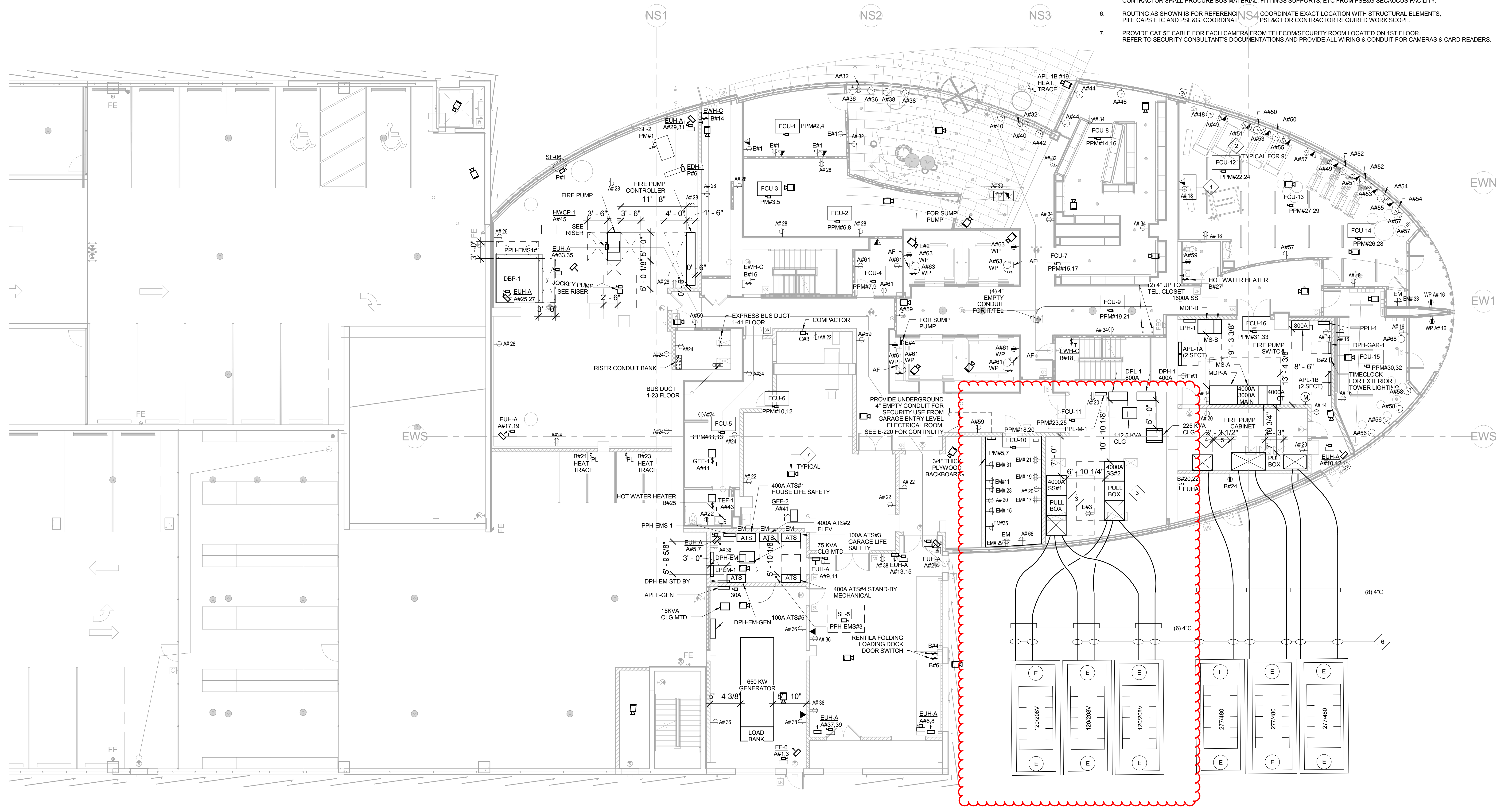


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	02/26/16	ISSUED FOR CONSTRUCTION
	05/09/16	REVISION 1
	05/20/16	ISSUED FOR CONSTRUCTION

- PLAN NOTES:**
- TYPICAL CIRCUITRY CONNECTED TO PANELS ARE ABBREVIATED AS FOLLOWS:
 A. AM1 DENOTES CIRCUIT #1 IN PANEL APL-1A
 B. BM1 DENOTES CIRCUIT #1 IN PANEL APL-1B
 C. CM1 DENOTES CIRCUIT #1 IN PANEL DPH-1
 D. DM1 DENOTES CIRCUIT #1 IN PANEL DPH-EM
 E. EM1 DENOTES CIRCUIT #1 IN PANEL LPEM-1
 F. PM1 DENOTES CIRCUIT #1 IN PANEL PPH-1
 G. PPM1 DENOTES CIRCUIT #1 IN PANEL PPL-M-1
- REFERENCE NOTES:**
- PROVIDE MIRROR FACE PLATE FOR DEVICES ON WALL.
 - PROVIDE POWER/DATA OUTLETS IN WIRE MANAGEMENT SYSTEM AS REQUIRED BY FITNESS EQUIPMENT VENDOR, TYPICAL FOR (B) TREADMILLS.
 - PROVIDE AUXILIARY PULL BOX ON SWITCHGEAR TO ACCEPT INCOMING PSE&G SERVICE CONDUCTORS AND LIMITER LUGS. COORDINATE LOCATIONS SO AS TO ALLOW FOR SERVICE CONDUIT ENTRY. PULL BOXES SHALL BE SIZED TO ACCOMMODATE SERVICE CONDUCTORS AND LIMITER LUGS AND SHALL HAVE ACCESS COVERS.
 - COORDINATE EXACT LOCATIONS OF CONDUIT ENTRY INTO 480V BUS ROOM WITH PSE&G PRIOR TO INSTALLATION.
 - INSTALL COMPLETE BUS DETAIL FOR PSE&G BUS ROOMS AS PER PSE&G SPECIFICATIONS. CONTRACTOR SHALL PROCURE BUS MATERIAL, FITTINGS SUPPORTS, ETC FROM PSE&G SECaucus FACILITY.
 - ROUTING AS SHOWN IS FOR REFERENCE ONLY. COORDINATE EXACT LOCATION WITH STRUCTURAL ELEMENTS, PSE&G FOR CONTRACTOR REQUIRED WORK SCOPE.
 - PROVIDE CAT 5E CABLE FOR EACH CAMERA FROM TELECOM/SECURITY ROOM LOCATED ON 1ST FLOOR. REFER TO SECURITY CONSULTANT'S DOCUMENTATIONS AND PROVIDE ALL WIRING & CONDUIT FOR CAMERAS & CARD READERS.



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1 TOWER 1ST FLOOR ELECTRICAL POWER PLAN
1/8" = 1'-0"

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NJ Certificate of Authorization No. 24GA28188000

Drawing Title

1ST FLOOR TOWER ELECTRICAL POWER PLAN

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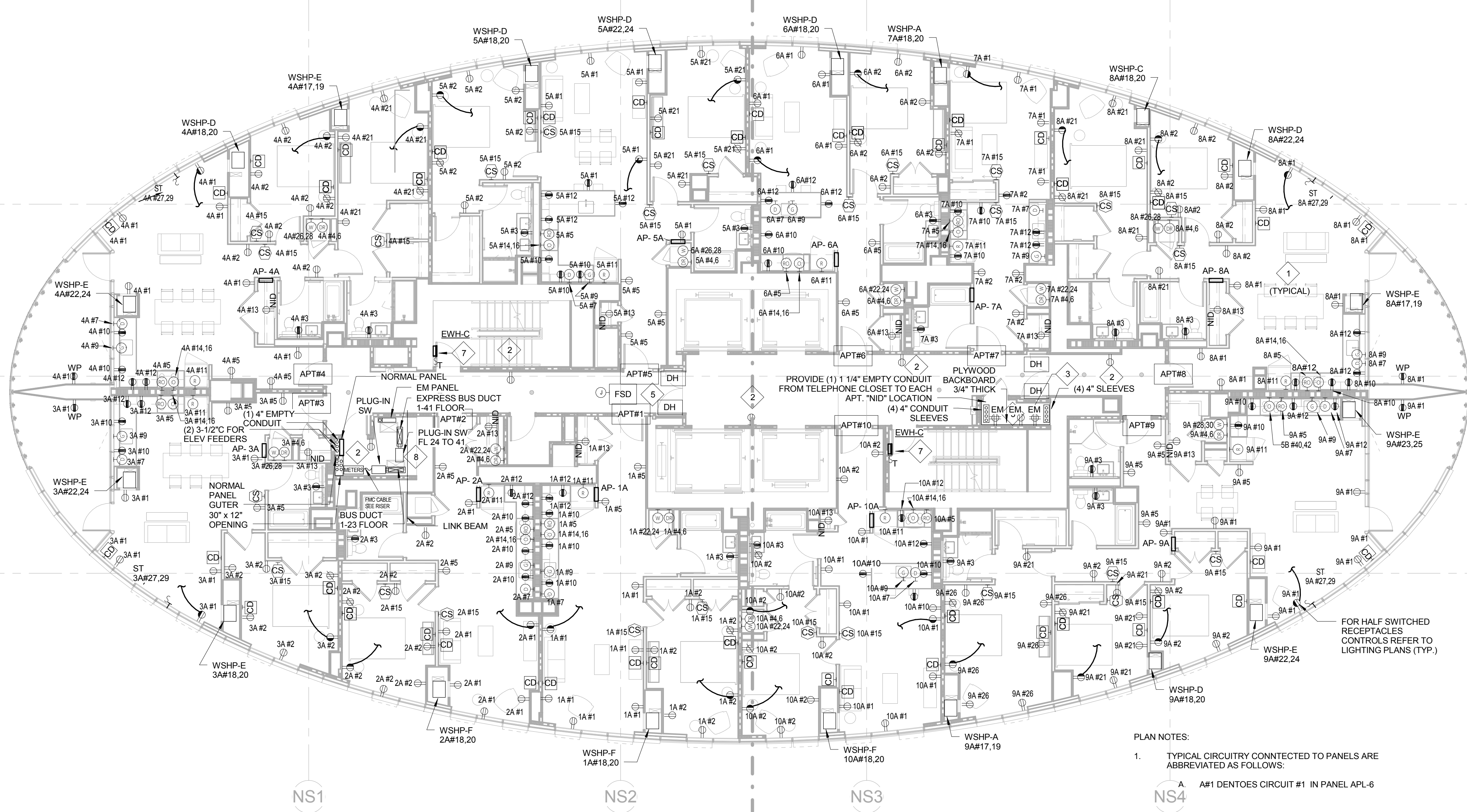
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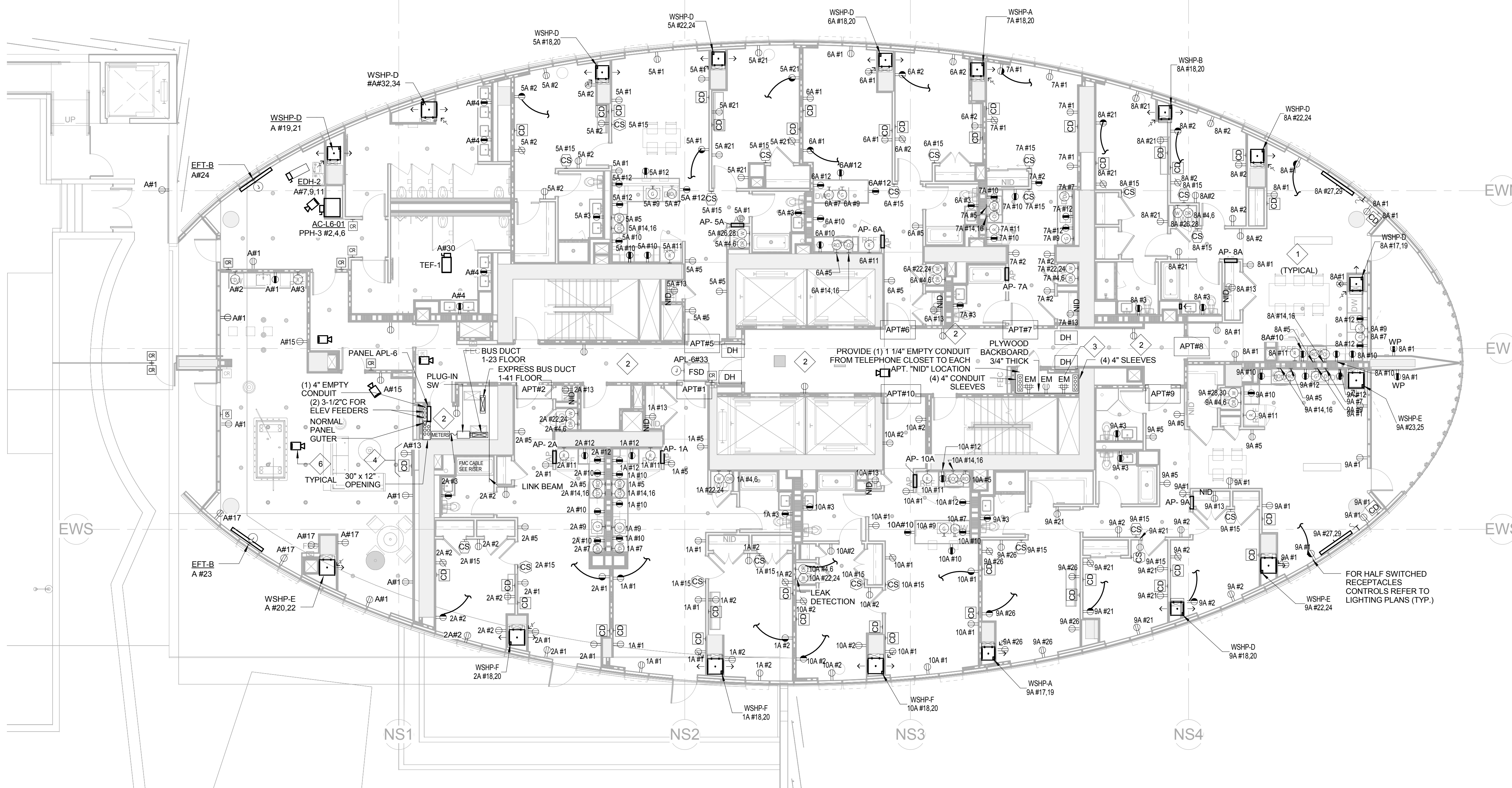
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2 TOWER 7TH-39TH FLOOR ELECTRICAL POWER PLAN
1/8" = 1'-0"



1 TOWER 6TH FLOOR ELECTRICAL POWER PLAN
1/8" = 1'-0"

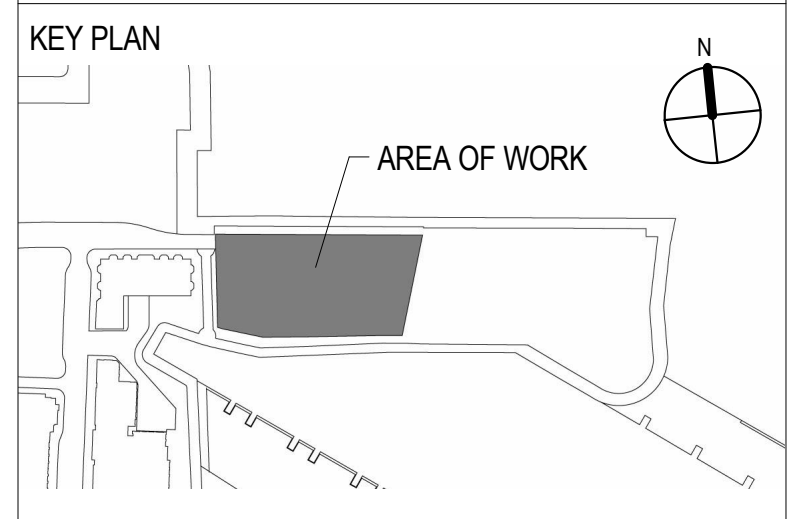
- REFERENCE NOTES:
- ALL CIRCUIT NUMBERS SHOWN IN EACH APARTMENT SHALL BE CONNECTED TO LOCAL PANEL. SEE PANEL SCHEDULES. TYPICAL CIRCUITRY IS ABBREVIATED AS FOLLOWS:
 - A. 1#A1 DENOTES CIRCUIT #1 IN PANEL AP-1A
 - B. 2#A1 DENOTES CIRCUIT #1 IN PANEL AP-2A
 - C. 3#A1 DENOTES CIRCUIT #1 IN PANEL AP-3A
 - D. 4#A1 DENOTES CIRCUIT #1 IN PANEL AP-4A
 - E. 5#A1 DENOTES CIRCUIT #1 IN PANEL AP-5A
 - F. 6#A1 DENOTES CIRCUIT #1 IN PANEL AP-6A
 - G. 7#A1 DENOTES CIRCUIT #1 IN PANEL AP-7A
 - H. 8#A1 DENOTES CIRCUIT #1 IN PANEL AP-8A
 - I. 9#A1 DENOTES CIRCUIT #1 IN PANEL AP-9A
 - J. 10#A1 DENOTES CIRCUIT #1 IN PANEL AP-10A
 - TO SUPPORT DUPLEX RECEPTACLES IN CORRIDORS PROVIDE (1) CIRCUIT PER FLOORS AS FOLLOWS:
 - A. (1) 20A/1P CIRCUITS TO PANEL APL-6 FOR FLOOR 6.
 - B. (5) 20A/1P CIRCUITS TO PANEL APL-10 FOR FLOORS 7 TO 15.
 - C. (10) 20A/1P CIRCUITS TO PANEL APL-20 FOR FLOORS 16 TO 25.
 - D. (10) 20A/1P CIRCUITS TO PANEL APL-30 FOR FLOORS 26 TO 35.
 - E. (4) 20A/1P CIRCUITS TO PANEL APL-40 FOR FLOORS 36 TO 39.
 - FOR TELEPHONE/TV ROOMS ON FLOORS 6 TO 39, PROVIDE (3) 20A/1P CIRCUITS ON EMERGENCY PER FLOOR AS FOLLOWS:
 - A. (3) 20A/1P CIRCUITS TO PANEL LPEM-6 FOR FLOOR 6.
 - B. (2) 20A/1P CIRCUITS TO PANEL LPEM-8 FOR FLOORS 7 TO 13.
 - C. (30) 20A/1P CIRCUITS TO PANEL LPEM-18 FOR FLOORS 14 TO 23.
 - D. (30) 20A/1P CIRCUITS TO PANEL LPEM-28 FOR FLOORS 24 TO 33.
 - E. (24) 20A/1P CIRCUITS TO PANEL LPEM-38 FOR FLOORS 34 TO 39.
 - FUTURE WALL MOUNTED TV. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH ARCHITECT.
 - FSD'S CIRCUITRY
 - APL-6#35 6TH, 7TH, 8TH FL
 - APL-10#21 9TH, 10TH FL
 - APL-10#23 11TH, 12TH, 13TH FL
 - APL-10#25 14TH, 15TH FL
 - APL-20#31 16TH, 17TH FL
 - APL-20#33 18TH, 19TH, 20TH FL
 - APL-20#35 21TH, 22TH FL
 - APL-30#37 24TH, 25TH FL
 - APL-30#39 26TH, 27TH FL
 - APL-30#33 28TH, 29TH, 30TH FL
 - APL-30#35 31TH, 32TH, 33RD FL
 - APL-30#37 34TH, 35TH FL
 - APL-40#21 36TH, 37TH FL
 - APL-40#23 38TH, 39TH FL
 - PROVIDE CAT 5E CABLE FOR EACH CAMERA FROM TELECOM/SECURITY ROOM LOCATED ON 1ST FLOOR. REFER TO SECURITY CONSULTANT'S DOCUMENTATIONS AND PROVIDE ALL WIRING & CONDUIT FOR CAMERAS & CARD READERS.
 - PROVIDE CIRCUITRY FOR STAIRS ELECTRIC HEATERS EWH-C AS FOLLOWS:
 - FLOOR 7 APL-6#25 & #26
 - FLOOR 12 APL-10#2 & #4
 - FLOOR 17 APL-20#2 & #4
 - FLOOR 20 APL-20#6 & #8
 - FLOOR 26 APL-30#2 & #4
 - FLOOR 31 APL-30#6 & #8
 - FLOOR 36 APL-40#2 & #4
 - SEE ELECTRICAL CLOSET ON DRAWING E-205 FOR CONTINUATION FROM PLUG-IN SWITCH TO METER BANK.

PLAN NOTES:
1. TYPICAL CIRCUITRY CONNECTED TO PANELS ARE ABBREVIATED AS FOLLOWS:
A. #A1 DENOTES CIRCUIT #1 IN PANEL APL-6



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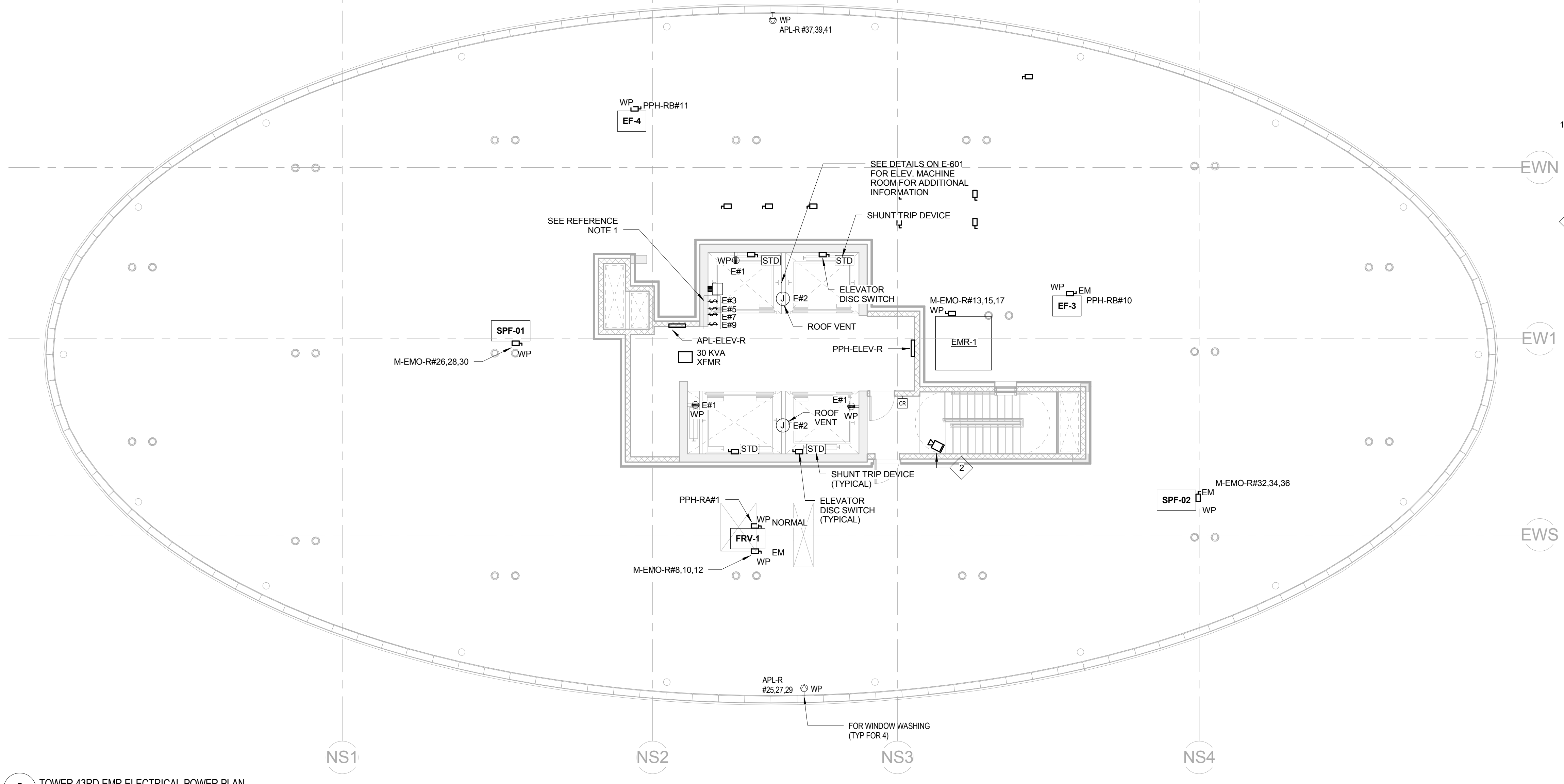
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**6TH-39TH FLOOR
ELECTRICAL POWER
PLANS**

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: SS	PROJECT NO. 15029

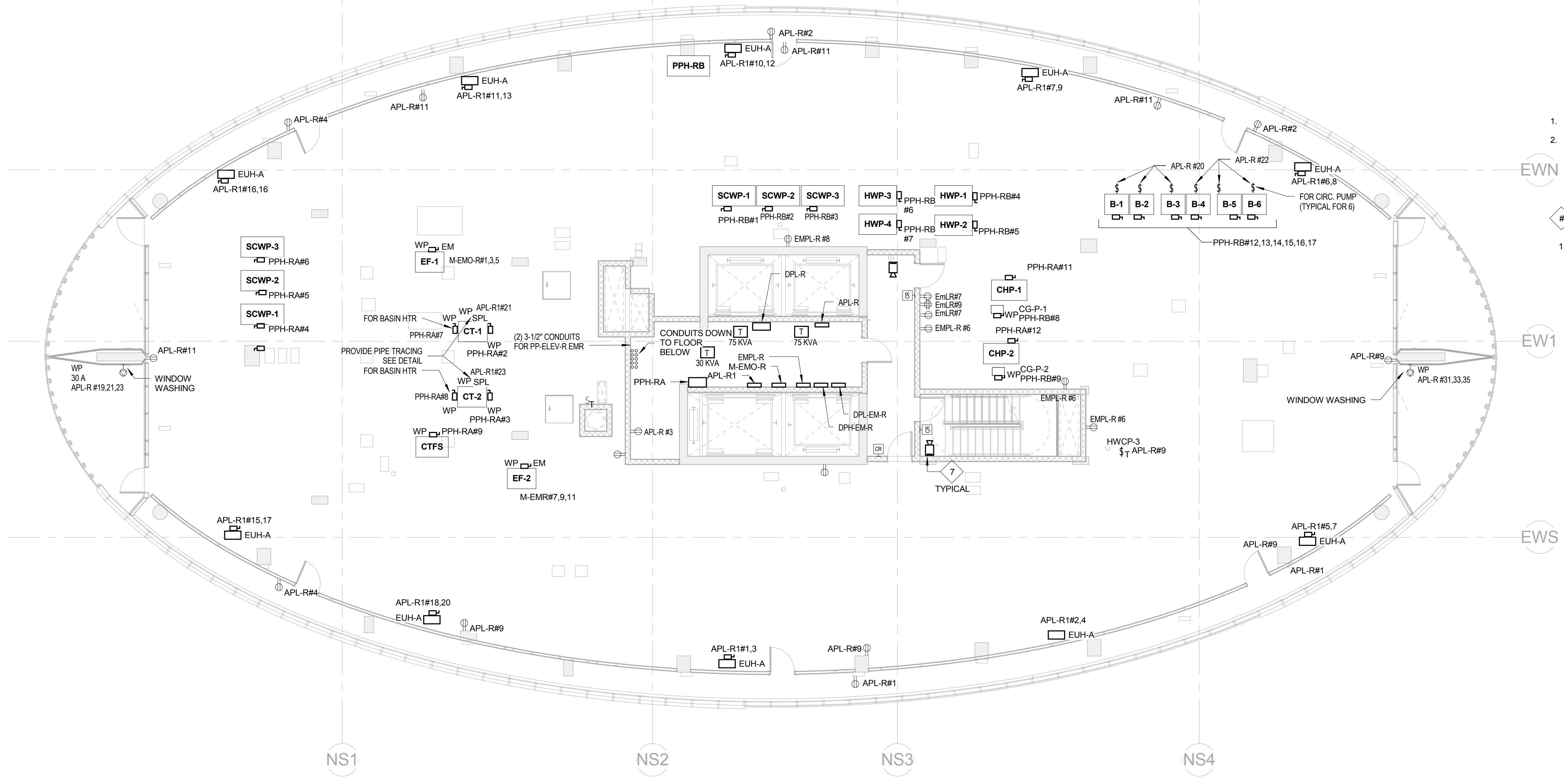
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E-204



2 TOWER 43RD EMR ELECTRICAL POWER PLAN
1/8" = 1'-0"

- PLAN NOTES:**
- TYPICAL CIRCUITRY CONNECTED TO PANELS ARE ABBREVIATED AS FOLLOWS:
 - A. E#1 DENTOTES CIRCUIT #1 IN PANEL APL-ELEV-R
- REFERENCE NOTES:**
- PROVIDE (4) 15A, CB FUSE SWITCH LOCKABLE IN ON POSITION FOR ELEVATOR CAB APPURTENANCES.
 - PROVIDE CAT 5E CABLE FOR EACH CAMERA FROM TELECOM/SECURITY ROOM LOCATED ON 1ST FLOOR. REFER TO SECURITY CONSULTANT'S DOCUMENTATIONS AND PROVIDE ALL WIRING & CONDUIT FOR CAMERAS & CARD READERS.



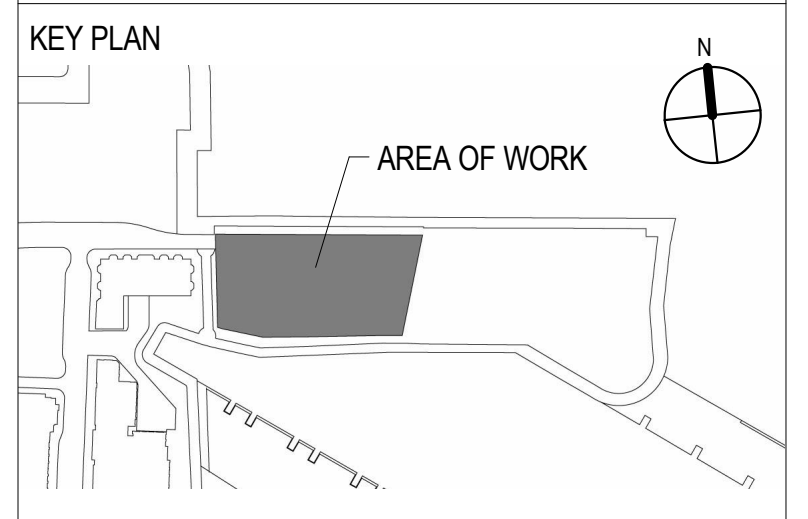
1 TOWER 42ND ROOF ELECTRICAL POWER PLAN
1/8" = 1'-0"

- PLAN NOTES:**
- ALL CONDUIT FOR ROOF SHALL BE FROM FLOOR BELOW.
 - NO SURFACE CONDUIT IS PERMITTED TO BE INSTALLED ON ROOF FLOOR.
- REFERENCE NOTES:**
- NOT USED.



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TRACE POOL DESIGN
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Drawing Title
ROOF & EMR ELECTRICAL POWER PLANS

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: SS	PROJECT NO. 15029

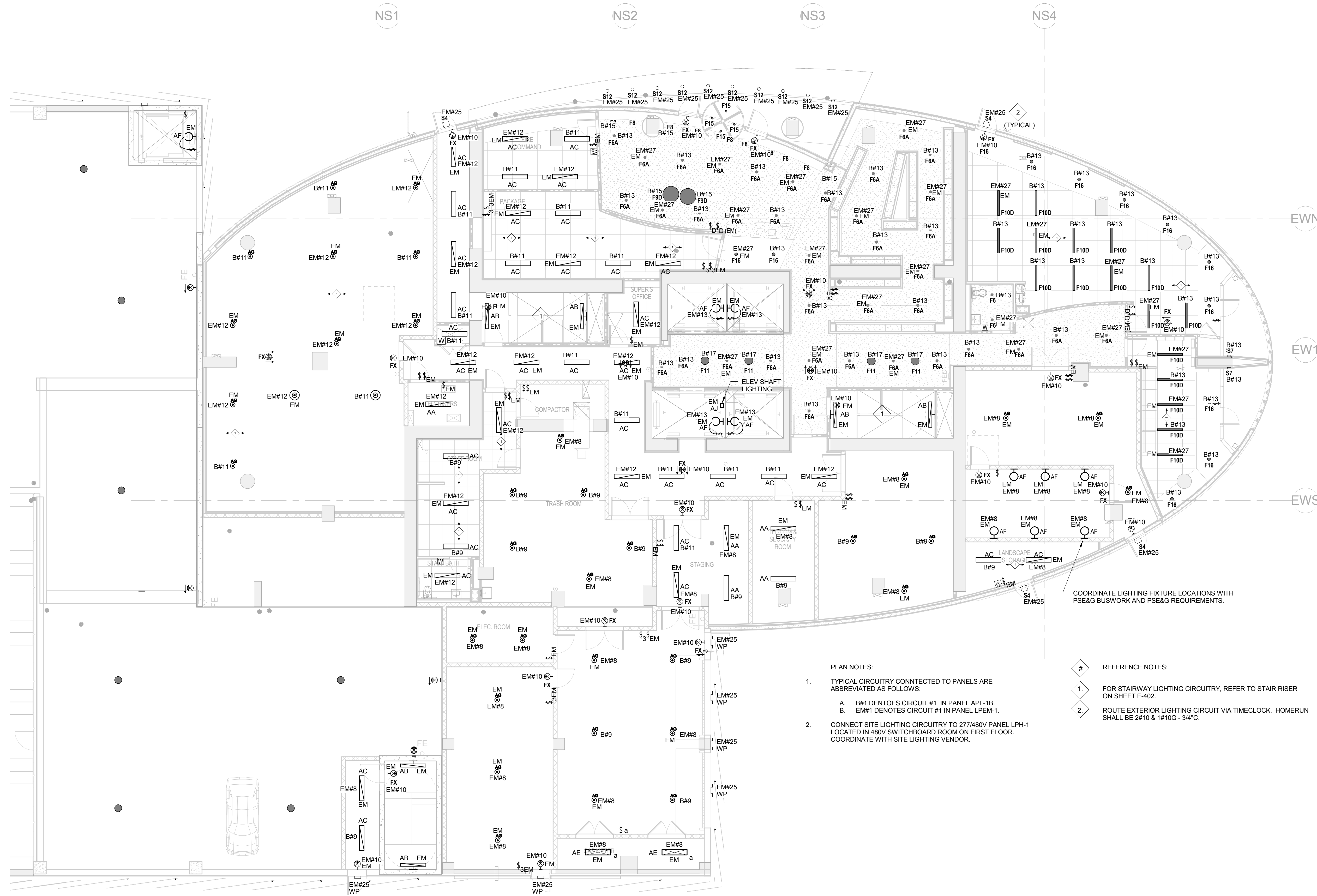
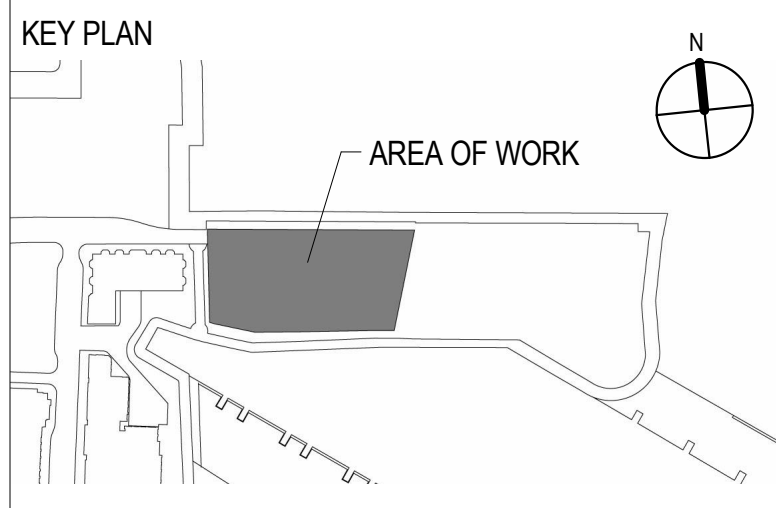
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	05/20/16	ISSUED FOR CONSTRUCTION



- PLAN NOTES:**
- TYPICAL CIRCUITRY CONNECTED TO PANELS ARE ABBREVIATED AS FOLLOWS:
 A. #B#1 DENOTES CIRCUIT #1 IN PANEL APL-1B.
 B. EM#1 DENOTES CIRCUIT #1 IN PANEL LPEM-1.
 - CONNECT SITE LIGHTING CIRCUITRY TO 277480V PANEL LPH-1 LOCATED IN 480V SWITCHBOARD ROOM ON FIRST FLOOR. COORDINATE WITH SITE LIGHTING VENDOR.
- REFERENCE NOTES:**
- FOR STAIRWAY LIGHTING CIRCUITRY, REFER TO STAIR RISER ON SHEET E-402.
 - ROUTE EXTERIOR LIGHTING CIRCUIT VIA TIMECLOCK. HOMERUN SHALL BE 2#10 & 1#10G - 34°C.

COORDINATE LIGHTING FIXTURE LOCATIONS WITH PSE&G BUSWORK AND PSE&G REQUIREMENTS.

1 TOWER 1ST FLOOR ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"

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Drawing Title

1ST FLOOR TOWER ELECTRICAL LIGHTING PLAN

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
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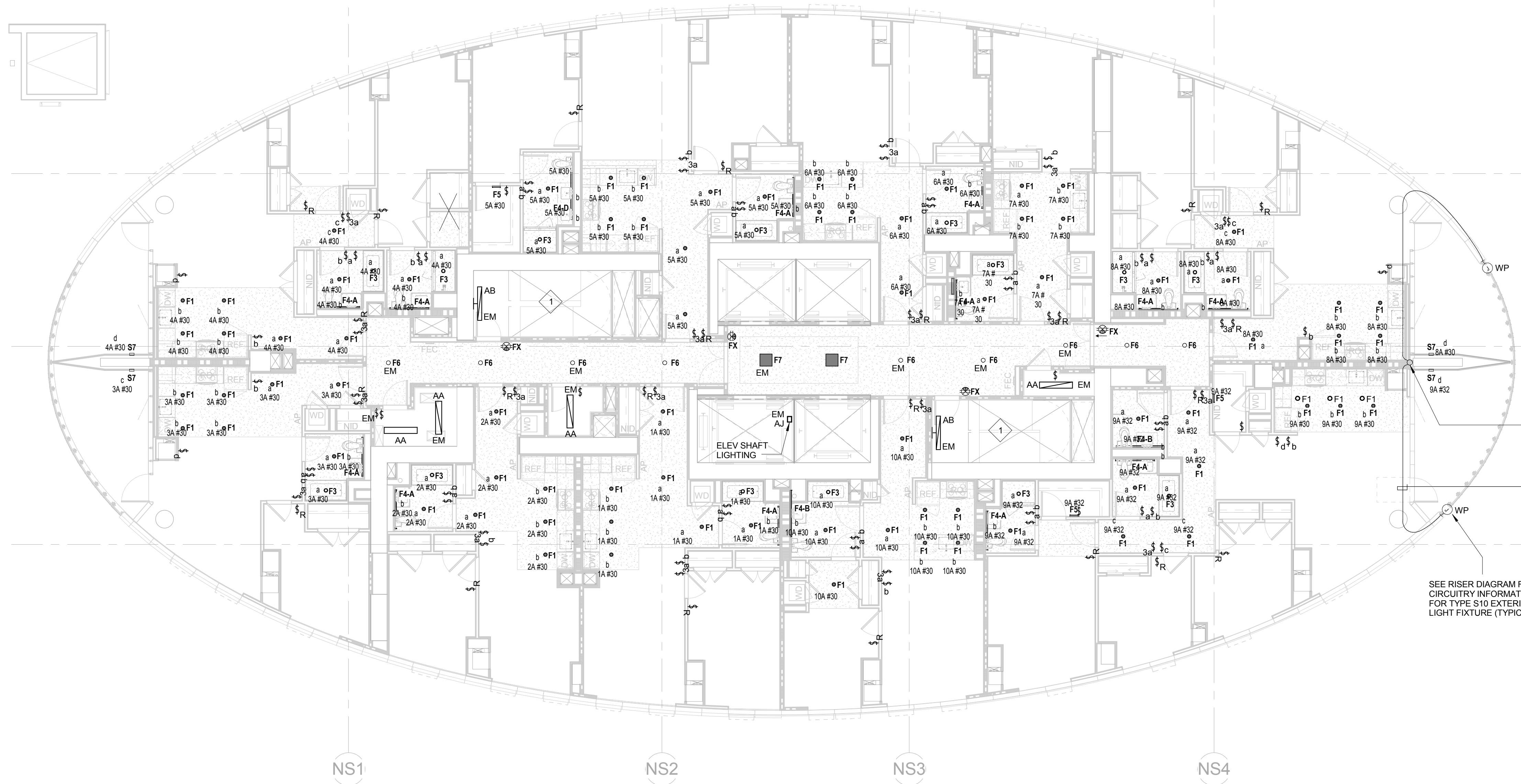
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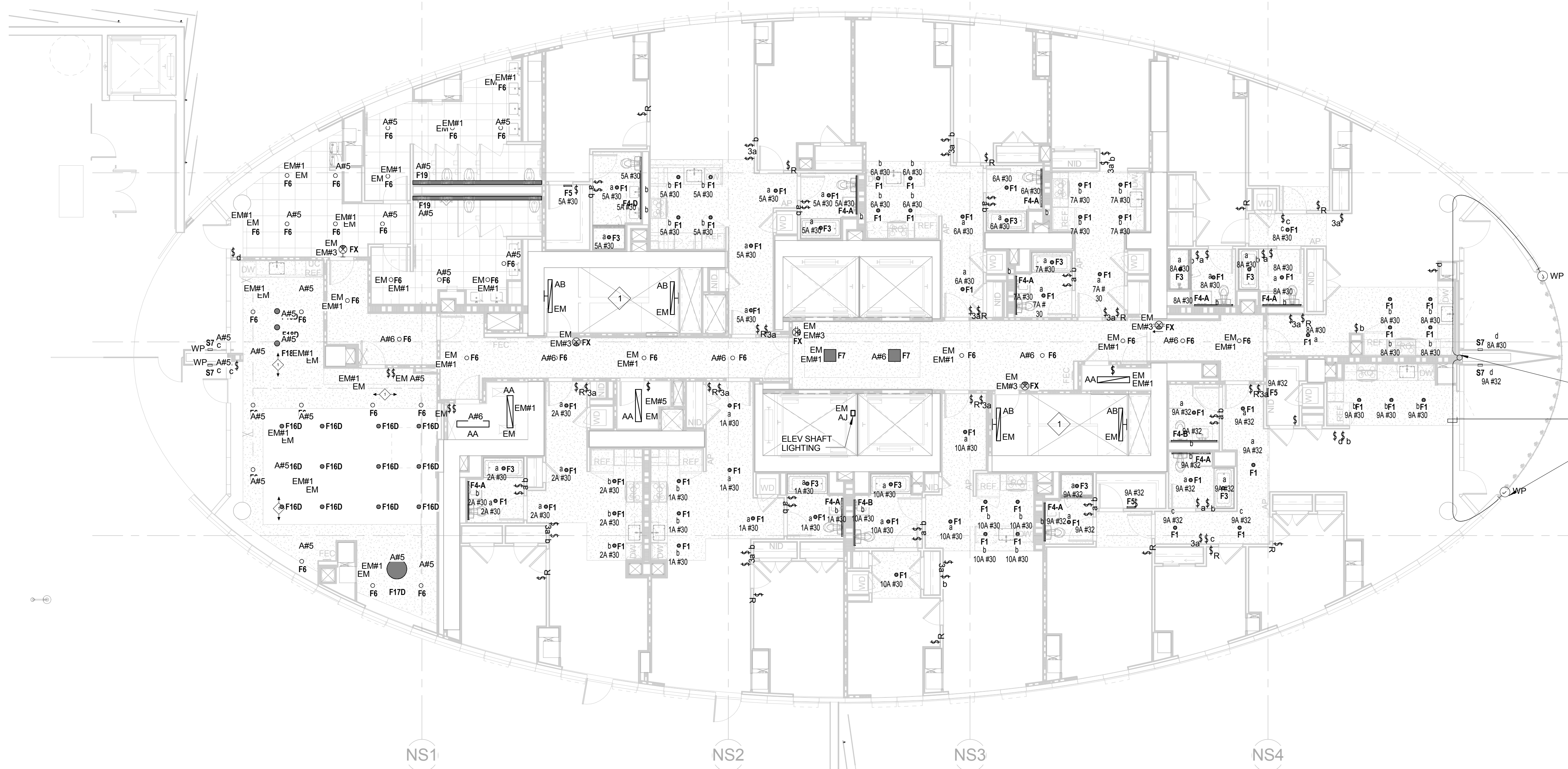
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2 TOWER 7TH-39TH FLOOR ELECTRICAL POWER PLAN
1/8" = 1'-0"



1 TOWER 6TH FLOOR ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"

PLAN NOTES:

- TYPICAL CIRCUITRY CONNECTED TO PANELS ARE ABBREVIATED AS FOLLOWS:
A. #M1 DENOTES CIRCUIT #1 IN PANEL APL-x.
B. EM#1 DENOTES CIRCUIT #1 IN PANEL EMPL-x.
- PROVIDE (1) 20A/1P CIRCUIT FROM PANEL APL-40 (FLOORS 34-41), PANEL APL-30 (FLOOR 24-33), PANEL APL-20 (FLOORS 14-23), AND PANEL APL-10 (FLOORS 6-13) PER EVERY TWO FLOORS FOR NORMAL CORRIDOR AND ELECTRIC CLOSET LIGHTING. SEE PANEL SCHEDULES FOR CIRCUITRY.
- PROVIDE (1) 20A/1P CIRCUIT FROM PANEL LPEM-38 (FLOORS 32-41), PANEL LPEM-28 (FLOORS 22-31), PANEL LPEM-18 (FLOORS 12-21), AND PANEL LPEM-8 (FLOORS 6-11) PER EVERY TWO FLOORS FOR EMERGENCY CORRIDOR ELECTRIC/TELECOM CLOSET AND TRASH ROOM LIGHTING. SEE PANEL SCHEDULES FOR CIRCUITRY.
- PROVIDE (1) 20A/1P CIRCUIT FROM PANEL LPEM-38 (FLOORS 32-41), PANEL LPEM-28 (FLOORS 20-31), PANEL LPEM-18 (FLOORS 12-19), AND PANEL LPEM-8 (FLOORS 6-11) PER EVERY FOUR FLOORS FOR EXIT SIGNS. SEE PANEL SCHEDULES FOR CIRCUITRY.
- SR SWITCH IS FOR HALF SWITCHED RECEPTACLES. SEE POWER PLANS FOR RECEPTACLES LOCATION.

RISER CONDUIT FOR TYPE S10 LIGHT FIXTURE

WIRING THROUGH APARTMENT WALLS (TYPICAL)

EWS

SEE RISER DIAGRAM FOR CIRCUITRY INFORMATION FOR TYPE S10 EXTERIOR LIGHT FIXTURE (TYPICAL)

REFERENCE NOTES:

- FOR STAIRWAY LIGHTING CIRCUITRY, REFER TO STAIR RISER ON SHEET E-402.

PLAN NOTES:

- TYPICAL CIRCUITRY CONNECTED TO PANELS ARE ABBREVIATED AS FOLLOWS:
A. #M1 DENOTES CIRCUIT #1 IN PANEL APL-6.
B. EM#1 DENOTES CIRCUIT #1 IN PANEL LPEM-6.
- SR SWITCH IS FOR HALF SWITCHED RECEPTACLES. SEE POWER PLANS FOR RECEPTACLES LOCATION.

EWS

RISER CONDUIT FOR TYPE S10 LIGHT FIXTURE

WIRING THROUGH APARTMENT WALLS (TYPICAL)

SEE RISER DIAGRAM FOR CIRCUITRY INFORMATION FOR TYPE S10 EXTERIOR LIGHT FIXTURE (TYPICAL)

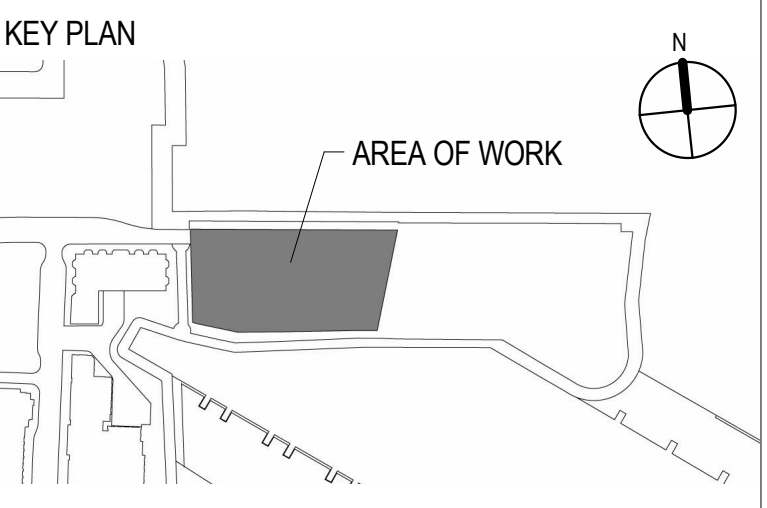
EWS



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Drawing Title

**6TH-39TH FLOOR
ELECTRICAL LIGHTING
PLANS**

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: SS	PROJECT NO. 15029

DRAWING NO.

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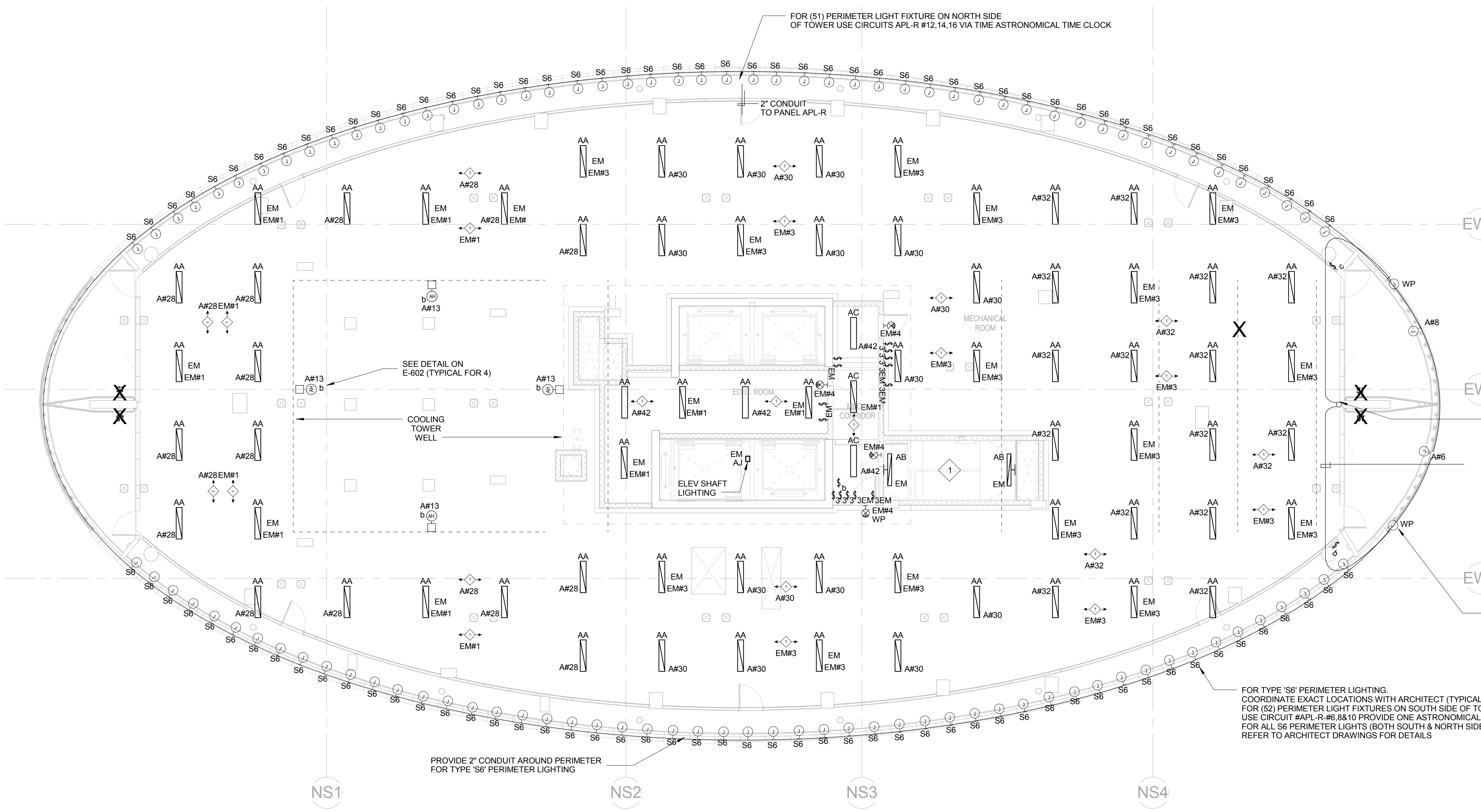
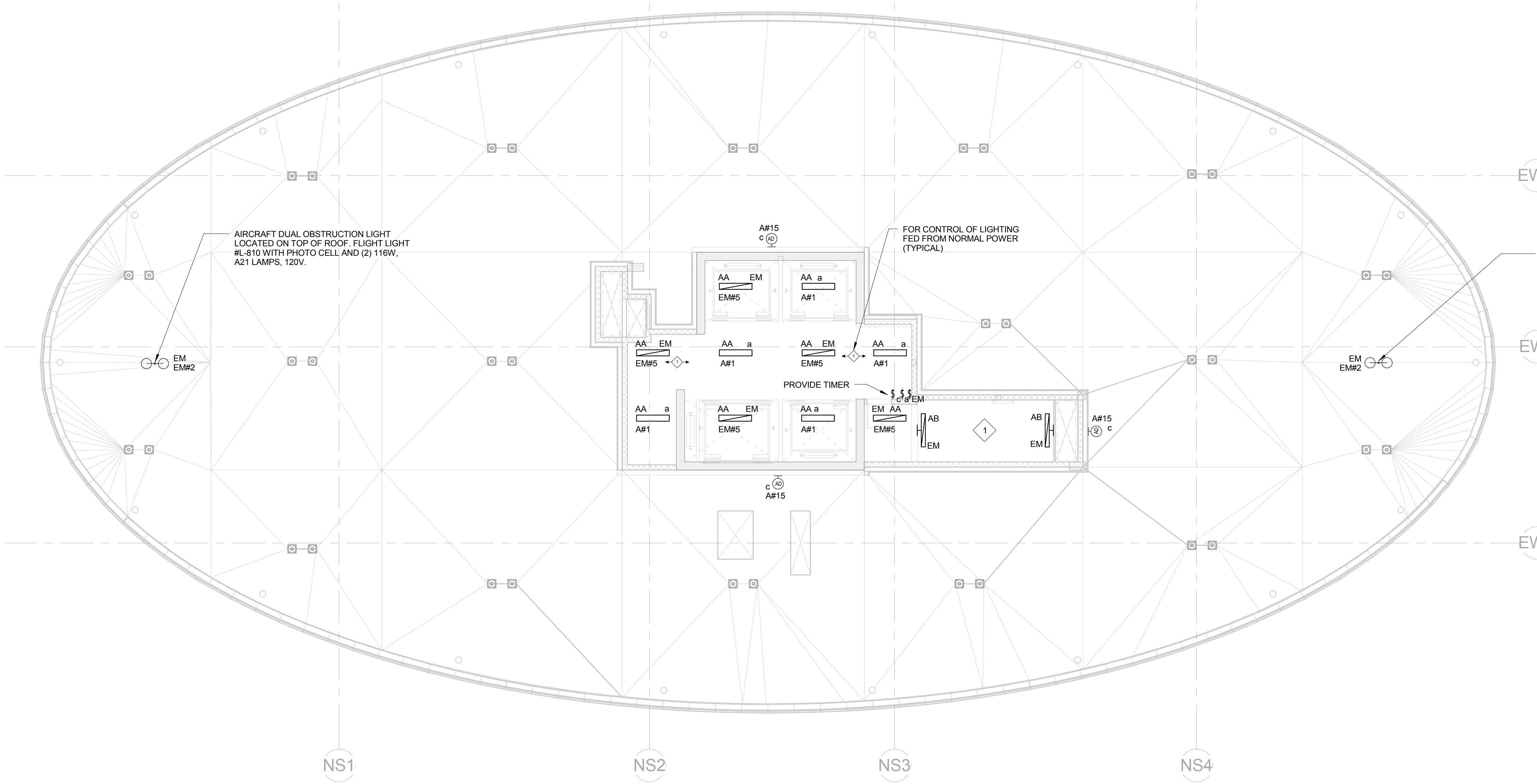
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B

A

2 TOWER 43RD EMR ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"

1 TOWER 42ND ROOF ELECTRICAL LIGHTING PLAN
1/8" = 1'-0"



PLAN NOTES:
1. TYPICAL CIRCUITRY CONNECTED TO PANELS ARE ABBREVIATED AS FOLLOWS:
A. AP#1 DENOTES CIRCUIT #1 IN PANEL APL-R.
B. EM#1 DENOTES CIRCUIT #1 IN PANEL EMPL-R.

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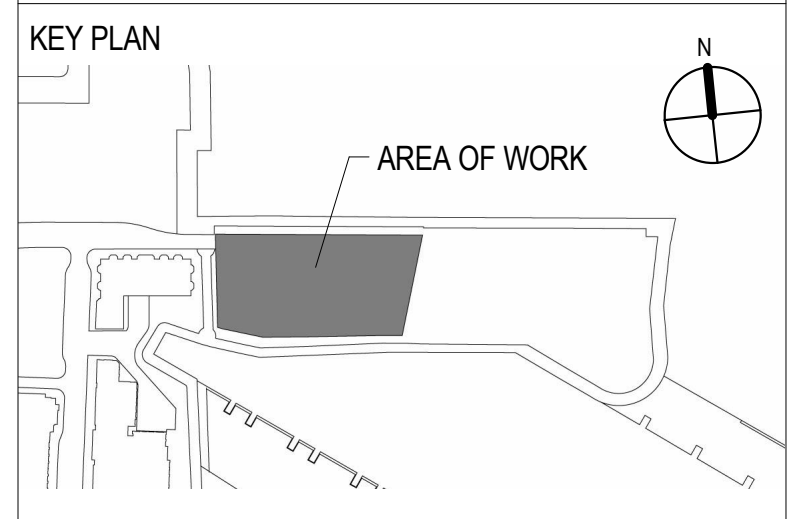
REFERENCE NOTES:
1. FOR STAIRWAY LIGHTING CIRCUITRY, REFER TO STAIR RISER ON SHEET E-402.
2. INSTALL ALL OCCUPANCY SENSORS BELOW MECHANICAL DUCT WORK & PIPING.
3. THREE S3 SWITCHES SHOWN IN MER TO CONTROL NORMAL CIRCUITS APL-R #28,30,32.
4. TWO S3 EM SWITCHES SHOWN IN MER TO CONTROL EM CIRCUITS EMPL-R #1,3.

FOR TYPE 'S6' PERIMETER LIGHTING, COORDINATE EXACT LOCATIONS WITH ARCHITECT (TYPICAL FOR ALL). FOR (S2) PERIMETER LIGHT FIXTURES ON SOUTH SIDE OF TOWER USE CIRCUIT APL-R #6,8&10 PROVIDE ONE ASTRONOMICAL TIME CLOCK FOR ALL S6 PERIMETER LIGHTS, BOTH SOUTH & NORTH SIDE OF TOWER. REFER TO ARCHITECT DRAWINGS FOR DETAILS.



ELLIPSE
25 Park Lane South
Jersey City, NJ 07310

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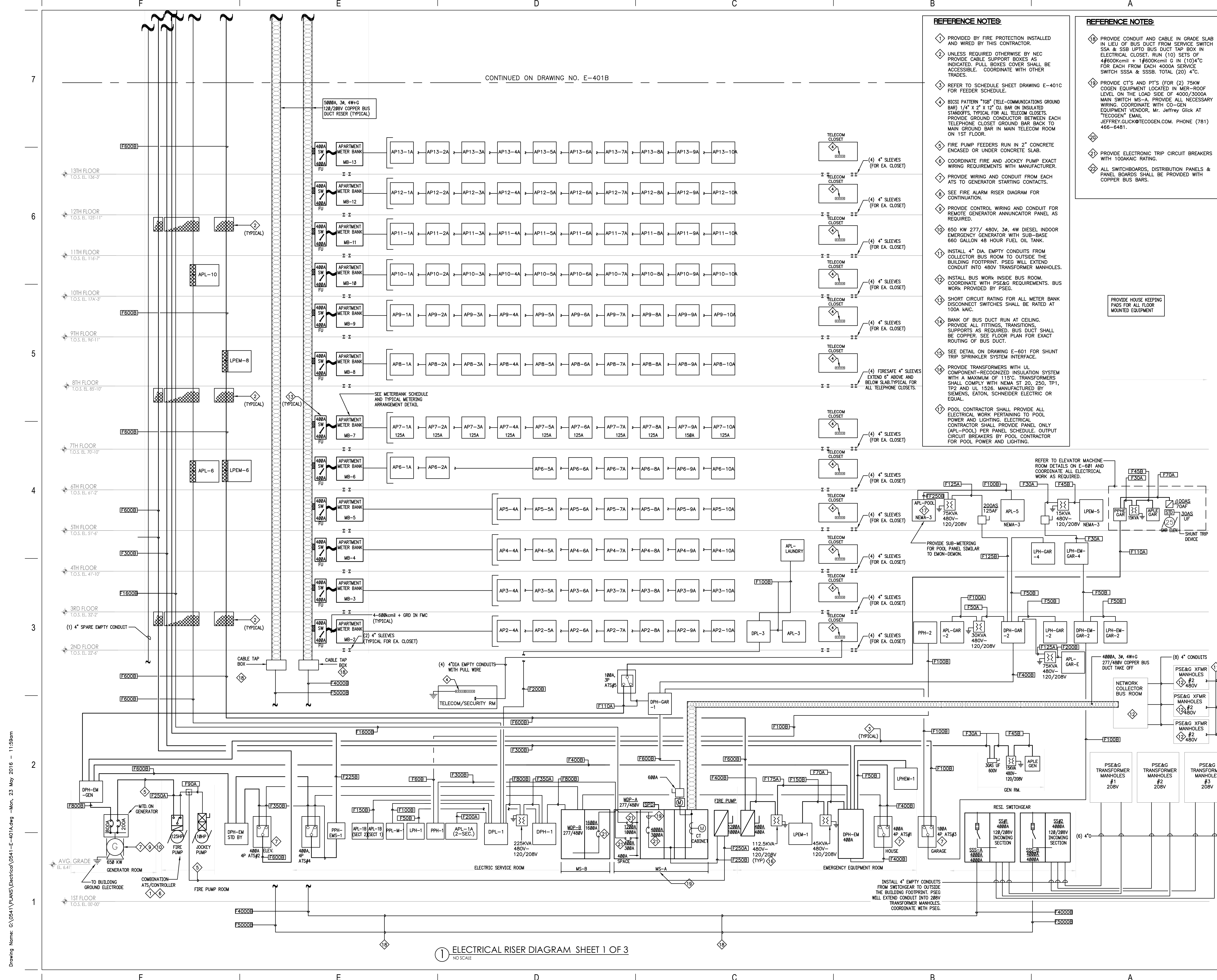
JOHN J. OSKWARIEK, PROFESSIONAL ENGINEER
NJ License No. 24GE00413400
NJ Certificate of Authorization No. 24GA28188000

Drawing Title
ROOF & EMR ELECTRICAL LIGHTING PLANS

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: SS	PROJECT NO. 15029

DRAWING NO.
E-305

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CONTINUED ON DRAWING NO. E-401B

REFERENCE NOTES:

- 1 PROVIDED BY FIRE PROTECTION INSTALLED AND WIRED BY THIS CONTRACTOR.
- 2 UNLESS REQUIRED OTHERWISE BY NEC PROVIDE CABLE SUPPORT BOXES AS INDICATED. PULL BOXES COVER SHALL BE ACCESSIBLE. COORDINATE WITH OTHER TRADES.
- 3 REFER TO SCHEDULE SHEET DRAWING E-401C FOR FEEDER SCHEDULE.
- 4 BICSI PATTERN "T08" (TELE-COMMUNICATIONS GROUND BAR) 1/4" x 2" x 12" CU BAR ON INSULATED STANDOFFS, TYPICAL FOR ALL TELECOM CLOSETS. PROVIDE GROUND CONDUCTOR BETWEEN EACH TELEPHONE CLOSET GROUND BAR BACK TO MAIN GROUND BAR IN MAIN TELECOM ROOM ON 1ST FLOOR.
- 5 FIRE PUMP FEEDERS RUN IN 2" CONCRETE ENCASED OR UNDER CONCRETE SLAB.
- 6 COORDINATE FIRE AND JOCKEY PUMP EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
- 7 PROVIDE WIRING AND CONDUIT FROM EACH ATS TO GENERATOR STARTING CONTACTS.
- 8 SEE FIRE ALARM RISER DIAGRAM FOR CONTINUATION.
- 9 PROVIDE CONTROL WIRING AND CONDUIT FOR REMOTE GENERATOR ANNUNCIATOR PANEL AS REQUIRED.
- 10 650 KW 277/ 480V, 3Ø, 4W DIESEL INDOOR EMERGENCY GENERATOR WITH SUB-BASE 660 GALLON 48 HOUR FUEL OIL TANK.
- 11 INSTALL 4" DIA. EMPTY CONDUITS FROM COLLECTOR BUS ROOM TO OUTSIDE THE BUILDING FOOTPRINT. PSEG WILL EXTEND CONDUIT INTO 480V TRANSFORMER MANHOLES.
- 12 INSTALL BUS WORK INSIDE BUS ROOM. COORDINATE WITH PSEG REQUIREMENTS. BUS WORK PROVIDED BY PSEG.
- 13 SHORT CIRCUIT RATING FOR ALL METER BANK DISCONNECT SWITCHES SHALL BE RATED AT 100A kAIC.
- 14 BANK OF BUS DUCT RUN AT CEILING. PROVIDE ALL FITTINGS, TRANSITIONS, SUPPORTS AS REQUIRED. BUS DUCT SHALL BE COPPER. SEE FLOOR PLAN FOR EXACT ROUTING OF BUS DUCT.
- 15 SEE DETAIL ON DRAWING E-601 FOR SHUNT TRIP SPRINKLER SYSTEM INTERFACE.
- 16 PROVIDE TRANSFORMERS WITH UL COMPONENT-RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF 115°C. TRANSFORMERS SHALL COMPLY WITH NEMA ST 20, 250, TP1, TP2 AND UL 1526. MANUFACTURED BY SIEMENS, EATON, SCHNEIDER ELECTRIC OR EQUAL.
- 17 POOL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL WORK PERTAINING TO POOL POWER AND LIGHTING. ELECTRICAL CONTRACTOR SHALL PROVIDE PANEL ONLY (APL-POOL) PER PANEL SCHEDULE. OUTPUT CIRCUIT BREAKERS BY POOL CONTRACTOR FOR POOL POWER AND LIGHTING.

REFERENCE NOTES:

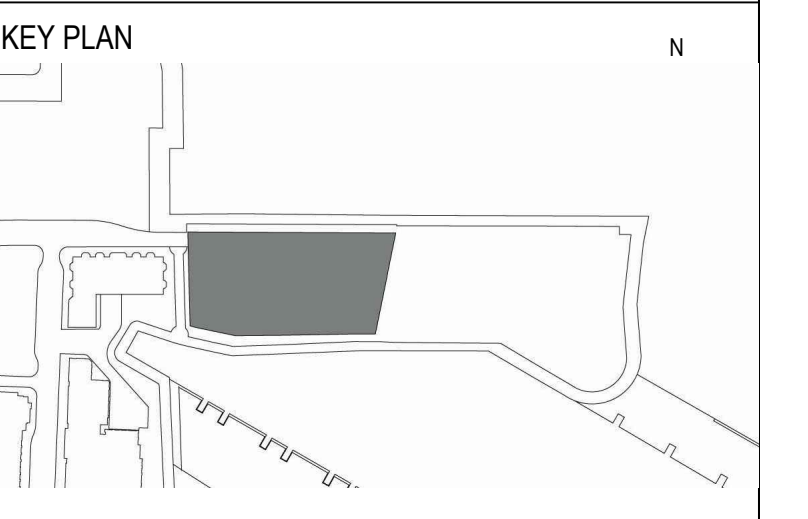
- 18 PROVIDE CONDUIT AND CABLE IN GRADE SLAB IN LIEU OF BUS DUCT FROM SERVICE SWITCH SSA & SSB UP TO BUS DUCT TAP BOX IN ELECTRICAL CLOSET. RUN (10) SETS OF 4#600kcmil + 1#600kcmil G IN (10) 4" CONDUIT FOR EACH FROM EACH 4000A SERVICE SWITCH SSA & SSB. TOTAL (20) 4" CONDUIT.
- 19 PROVIDE CT'S AND PT'S (FOR 2) 75KW COGEN EQUIPMENT LOCATED IN MER-ROOF LEVEL ON THE LOAD SIDE OF 4000/3000A MAIN SWITCH MS-A. PROVIDE ALL NECESSARY WIRING. COORDINATE WITH CO-GEN EQUIPMENT VENDOR, Mr. Jeffrey Glick AT "TECOGEN" EMAIL: JEFFREY.GLICK@TECOGEN.COM. PHONE (781) 466-6481.
- 20
- 21 PROVIDE ELECTRONIC TRIP CIRCUIT BREAKERS WITH 100KAIC RATING.
- 22 ALL SWITCHBOARDS, DISTRIBUTION PANELS & PANEL BOARDS SHALL BE PROVIDED WITH COPPER BUS BARS.

NEWPORT

ELLIPSE TOWER

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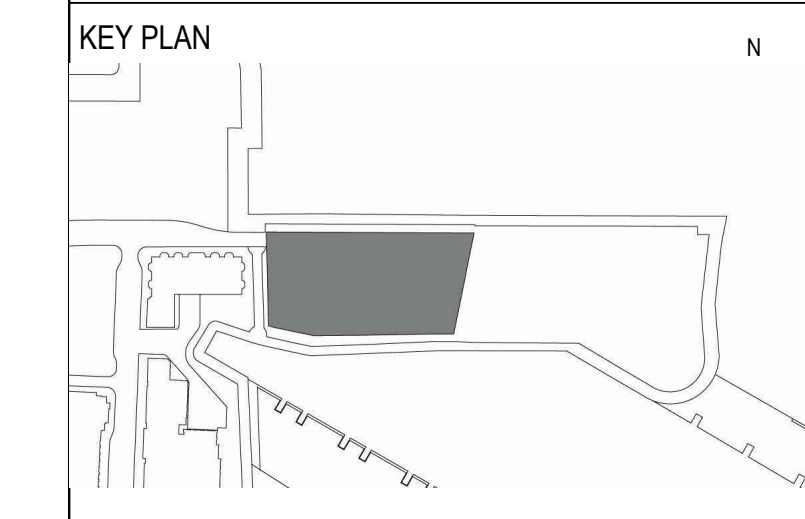
ELECTRICAL RISER DIAGRAM SHEET 1 OF 3

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E-401A

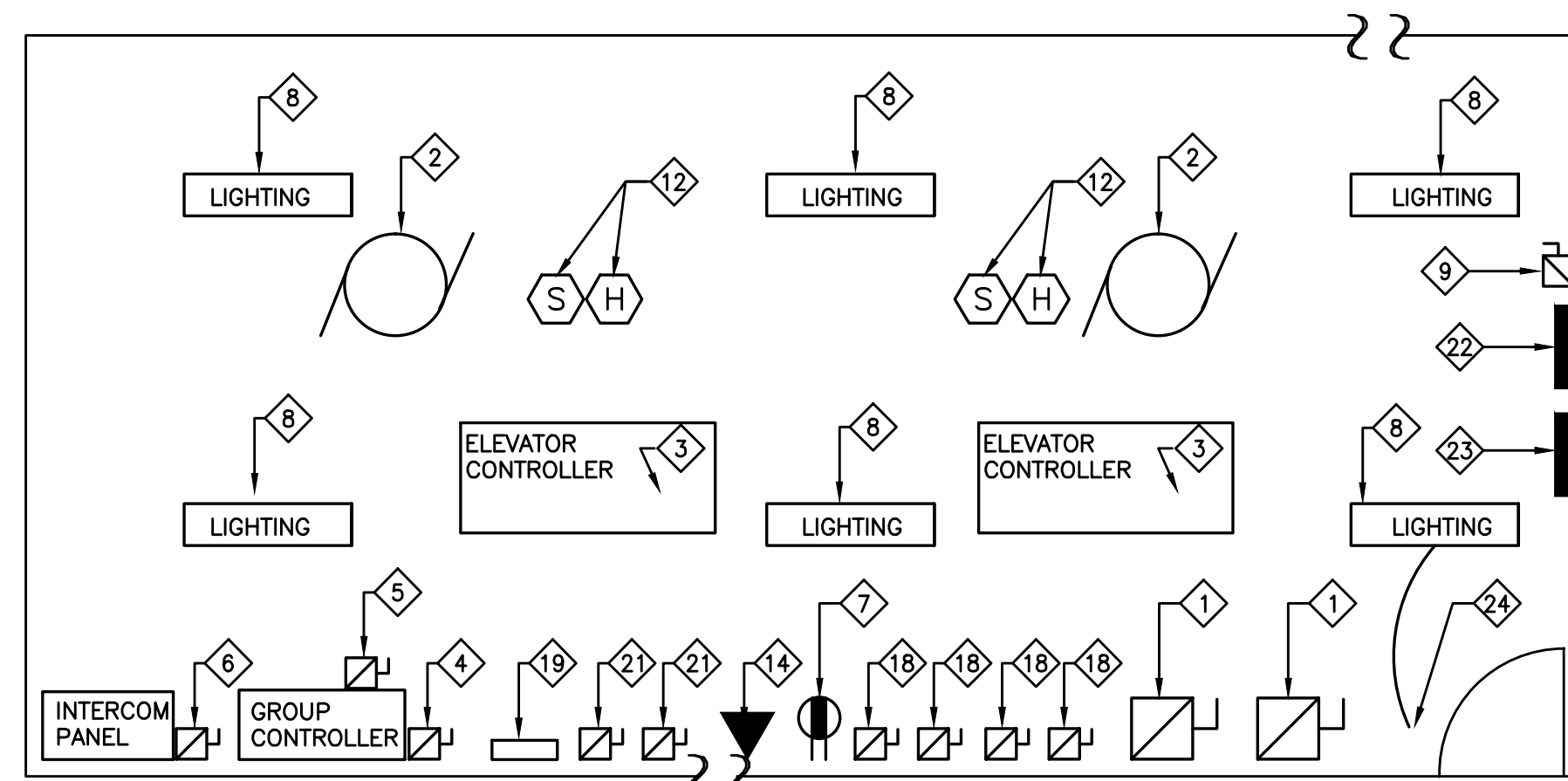
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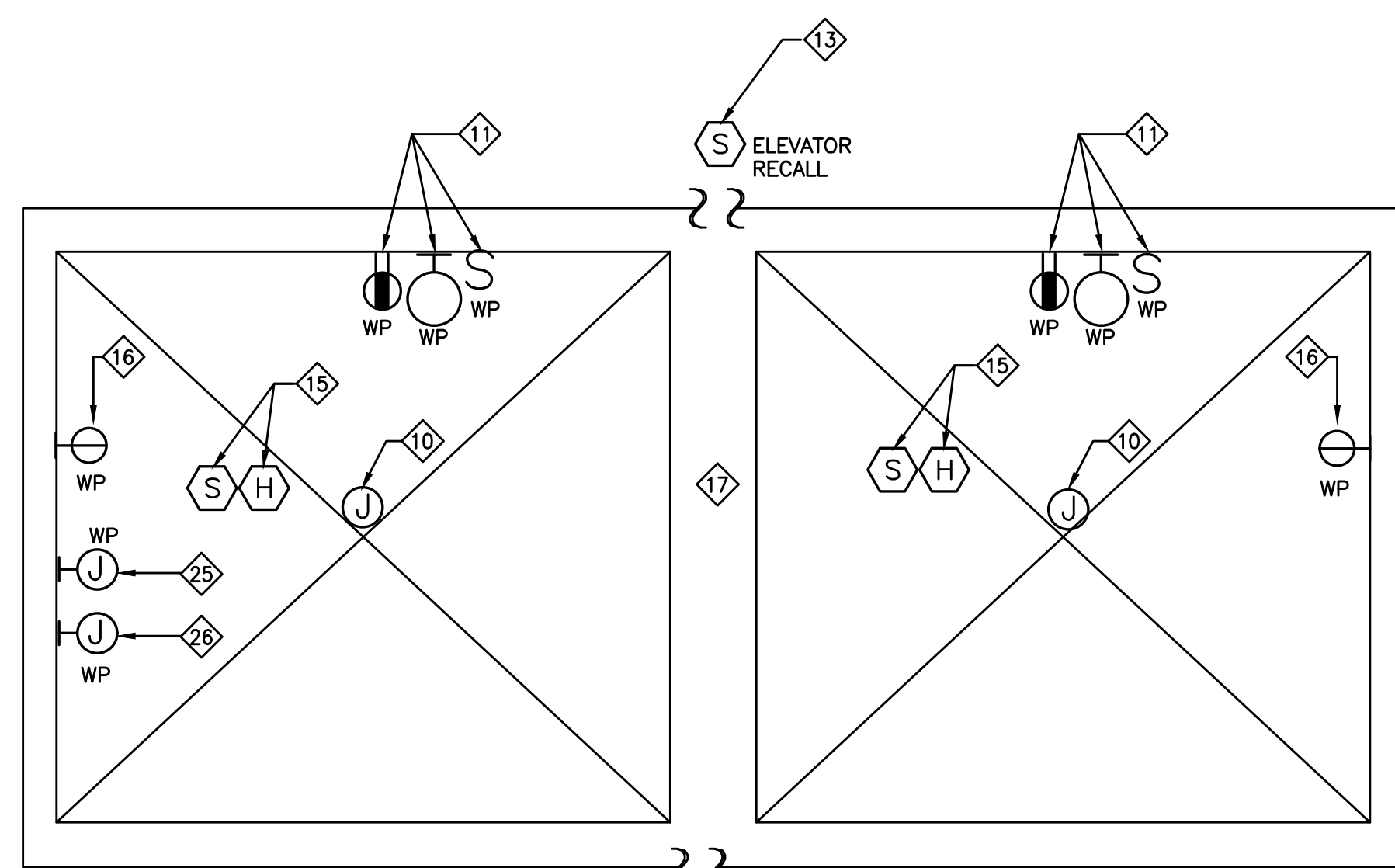


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TYPICAL ELEVATOR MACHINE ROOM FOR TWO OR MORE ELEVATORS PER BANK

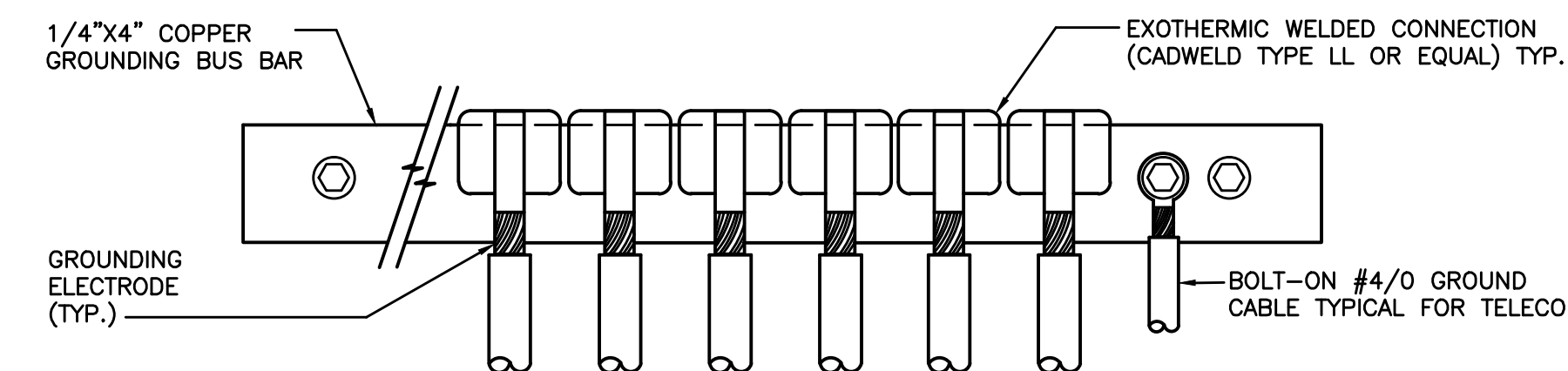


TYPICAL ELEVATOR SHAFT FOR TWO OR MORE ELEVATORS PER BANK

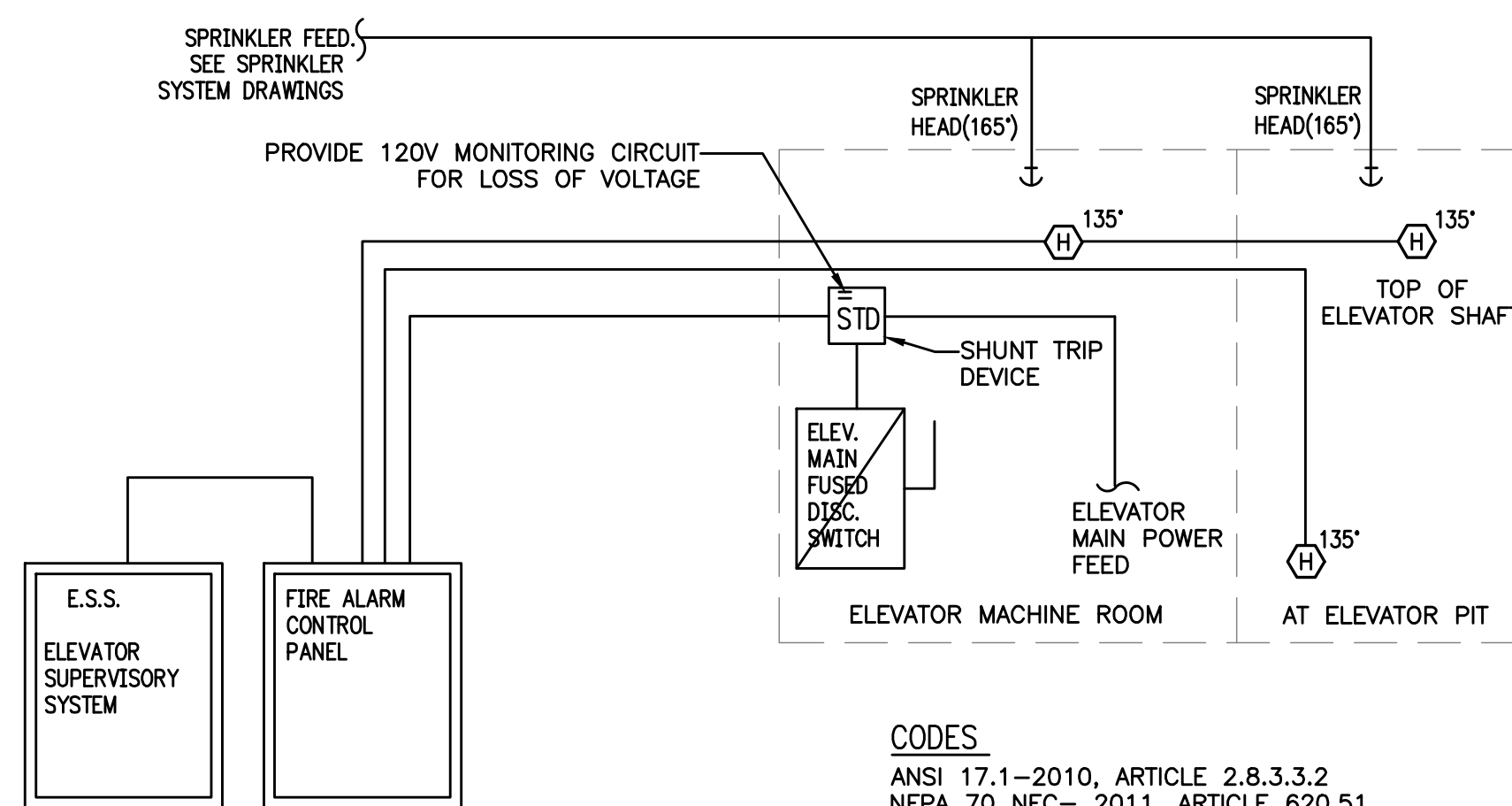
ELEVATOR MACHINE ROOM DETAIL REFERENCE NOTES:

- PRIOR TO INSTALLING ELECTRICAL EQUIPMENT AND DEVICES IN ELEVATOR MACHINE ROOM, ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ELEVATOR VENDOR/INSTALLER, IT/AV/SECURITY CONSULTANTS FOR EXACT LOCATION OF EQUIPMENT/DEVICES AND ELECTRICAL CONNECTIONS IN ELEVATOR MACHINE ROOM.

- ELEVATOR MACHINE ROOM DETAIL REFERENCE NOTES:**
- SHUNT TRIP FUSED DISCONNECT SWITCH. COORDINATE RATING AND FEEDER REQUIREMENTS WITH ELEVATOR CONSULTANT. PROVIDE (1) N/O AND (1) N/C AUXILIARY CONTACT IN EACH DISCONNECT SWITCH FOR HYDRAULIC ELEVATORS FOR USE WITH BATTERY LOWERING DEVICE.
 - ELEVATOR MOTOR. RATING AS PER ELEVATOR CONSULTANT.
 - A. ONE 120V, 20A CIRCUIT DEDICATED TO THE ELEVATOR CAB LIGHTING AND FAN. PROVIDE EMERGENCY CIRCUIT WHEN EMERGENCY GENERATOR IS REQUIRED.
 - B. ONE 120V, 20A CIRCUIT DEDICATED TO THE ELEVATOR CAB AIR CONDITIONING AND HEATING. PROVIDE EMERGENCY CIRCUIT WHEN EMERGENCY GENERATOR IS REQUIRED.
 - 120/208V, 30A, 2P FUSED DISCONNECT SWITCH DEDICATED TO THE GROUP CONTROLLER. GROUP CONTROLLER IS PROVIDED WHEN TWO OR MORE ELEVATORS PER BANK ARE INSTALLED.
 - 120V, 20A FUSED DISCONNECT SWITCH DEDICATED TO THE GROUP CONTROLLER. PROVIDE EMERGENCY CIRCUIT WHEN EMERGENCY GENERATOR IS REQUIRED.
 - 120V, 20A FUSED DISCONNECT SWITCH DEDICATED TO THE INTERCOM. PROVIDE EMERGENCY CIRCUIT WHEN EMERGENCY GENERATOR IS REQUIRED.
 - PROVIDE MINIMUM OF ONE GFCI DUPLEX MAINTENANCE OUTLETS IN EACH ELEVATOR MACHINE ROOM.
 - PROVIDE REQUIRED LIGHTING TO MAINTAIN MINIMUM OF TEN FOOT-CANDLES AT FLOOR LEVEL. PROVIDE EMERGENCY BACKUP BY MEANS OF THE BATTERY/BALLAST OR EMERGENCY GENERATOR.
 - REQUIRED DISCONNECT SWITCH DEDICATED TO THE ELEVATOR MACHINE ROOM VENTILATION. COORDINATE RATING AND FEEDER REQUIREMENTS WITH HVAC CONTRACTOR.
 - 120V, 20A CIRCUIT DEDICATED TO THE TRAIL CABLE OUTLET BOX LOCATED ON TOP OF EACH ELEVATOR SHAFT.
 - A. PROVIDE EMERGENCY CIRCUIT WHEN EMERGENCY GENERATOR IS REQUIRED.
 - B. PROVIDE DEDICATED 120V, 20A FUSED DISCONNECT SWITCH IN ELEVATOR MACHINE ROOM.
 - 120V, 20A DEDICATED CIRCUIT IN ELEVATOR PIT TO ENERGIZE LIGHT, LIGHT SWITCH AND DUPLEX GFCI RECEPTACLE OUTLET. ALL DEVICES LOCATED IN ELEVATOR PIT SHALL BE WEATHERPROOF TYPE.
 - SMOKE DETECTOR IS REQUIRED. PROVIDE HEAT DETECTOR WHEN ELEVATOR MACHINE ROOM IS SPRINKLERED. LOCATE WITHIN TWO FEET FROM SPRINKLER HEAD.
 - ELEVATOR RECALL SMOKE DETECTOR IN EACH ELEVATOR LOBBY. QUANTITY AS PER NFPA 72.
 - TELEPHONE FOR EMERGENCY COMMUNICATION WITH ELEVATOR CAR. PROVIDE REQUIRED CONDUIT AND WIRING.
 - A. WHEN ELEVATOR SHAFT IS SPRINKLERED, PROVIDE SMOKE AND HEAT DETECTORS. LOCATE HEAT DETECTOR WITHIN 24 INCHES FROM SPRINKLER HEAD.
 - B. WHEN ELEVATOR SHAFT IS VENTILATED, PROVIDE SMOKE DETECTOR ON TOP OF THE SHAFT TO INITIATE VENTILATION OF THE SHAFT.
 - C. FOR HYDRAULIC ELEVATORS, PROVIDE SMOKE DETECTORS IN AN ELEVATOR PIT.
 - D. WHEN ELEVATOR PIT IS SPRINKLERED, PROVIDE HEAT DETECTOR. LOCATE HEAT DETECTOR WITHIN 24 INCHES FROM SPRINKLER HEAD.
 - 120V, 20A CIRCUIT DEDICATED TO SUMP PUMP AND TERMINATED IN NON-GFI SIMPLEX RECEPTACLE OUTLET IN ELEVATOR PIT.
 - PROVIDE EMPTY CONDUITS, JUNCTION BOXES, ETC. IN ELEVATOR SHAFT REQUIRED FOR INSTALLATION OF THE FIRE ALARM, COMMUNICATION AND SECURITY SYSTEMS. COORDINATE EXACT REQUIREMENTS WITH ASSOCIATED CONSULTANT/MANUFACTURER.
 - 120V, 20A DEDICATED FUSED DISCONNECT SWITCH ASSOCIATED WITH CAB LIGHTING AND AIR CONDITIONING CIRCUITS. QUANTITY AS REQUIRED.
 - PROVIDE DRY, NO/NC CONTACTS IN EACH ELEVATOR CONTROLLER. WHEN EMERGENCY GENERATOR IS REQUIRED, TRANSFER SIGNAL FROM AUTOMATIC TRANSFER SWITCH SHALL BE AVAILABLE FOR THE ELEVATOR CONTROLLER TO IDENTIFY THAT TRANSFER TO EMERGENCY POWER HAS OCCURRED AND ANOTHER SIGNAL PRIOR TO TRANSFER BACK TO NORMAL POWER. QUANTITY AS REQUIRED.
 - WHEN ONLY ONE ELEVATOR IS PROVIDED PER BANK, DELETE REQUIREMENTS ASSOCIATED WITH GROUP CONTROLLER.
 - 120V, 20A FUSED DISCONNECT SWITCH ASSOCIATED WITH CIRCUIT REQUIRED FOR TRAIL CABLE.
 - WHEN MORE THAN TWO ELEVATORS PER BANK ARE INSTALLED, IN LIEU OF ITEMS 18 AND 21 PROVIDE 100A BUS, 120/208V, 3 PHASE, 4 WIRE NORMAL POWER PANEL WITH 100A UNFUSED MAIN DISCONNECT SWITCH AND FOLLOWING BRANCH CIRCUIT PROTECTIVE DEVICES:
 - 1-30/2P FUSED DISCONNECT SWITCH PER CONTROLLER.
 - 5-20A/1P FUSED DISCONNECT SWITCHES PER ELEVATOR CAB.
 - WHEN MORE THAN TWO ELEVATORS PER BANK ARE INSTALLED, IN LIEU OF ITEMS 18 AND 21 PROVIDE 100A BUS, 120/208V, 3 PHASE, 4 WIRE EMERGENCY POWER PANEL WITH 100A UNFUSED MAIN DISCONNECT SWITCH AND FOLLOWING BRANCH CIRCUIT PROTECTIVE DEVICES:
 - 5-20A/1P FUSED DISCONNECT SWITCHES PER ELEVATOR CAB.
 - ELEVATOR MACHINE ROOM LIGHTING SWITCH.
 - PROVIDE 120V, 20A DEDICATED CIRCUIT FOR SHAFT LIGHTING.
 - PROVIDE 120V, 20A DEDICATED CIRCUIT FOR SHAFT RECEPTACLES.
 - PROVIDE LIGHTING WITH NOT LESS THAN ONE FOOT CANDLE IN ENTIRE HOISTWAY FOR THE SERVICE ELEVATOR SE-1 PER SECTION 3007.3, IBC 2009 NJ. THE LIGHTING IN THE SERVICE ELEVATOR HOISTWAY SHALL BE CONTROLLED BY FIREMAN KEY AT THE FIRE COMMAND STATION. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY LOW VOLTAGE WIRINGS AND RELAYS BETWEEN HOISTWAY LIGHTING CIRCUITRY AND THE FIRE COMMAND STATION FOR THE LIGHTING CONTROLS BY THE FIREMAN.
 - THE FEEDERS SUPPLYING POWER TO THE ELEVATORS SHALL BE ENCLOSED IN TWO HOUR RATED ENCLOSURE.



MAIN GROUNDING BUS BAR MOUNTING DETAIL

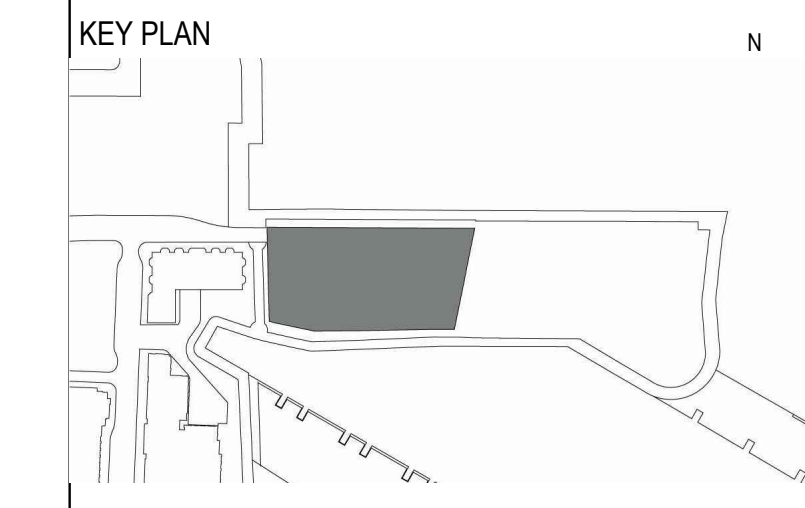


SEQUENCE OF OPERATION

- ACTIVATION OF EITHER HEAT DETECTOR SHALL:
 - SIGNAL TO E.S.S. VIA F.A.C.P. WHICH IMMEDIATELY STARTS ELEVATOR RECALL SEQUENCE AND ACTIVATE ALL ALARM INDICATING DEVICES (IF NOT ALREADY ACTIVATED BY SMOKE DETECTOR)
 - F.A.C.P. SIGNAL TO SPRINKLER SOLENOID VALVE TO OPEN (FILLING PIPE WITH WATER)
 - TIME DELAY (20 SEC.) FOR SIGNAL TO SHUNT TRIP BREAKER TO OPEN MAIN FEED CIRCUIT ALLOWING SUFFICIENT TIME FOR ELEVATOR RECALL SEQUENCE TO COMPLETE
 - SPRINKLER HEADS ARE NOW ARMED AND AVAILABLE IF TEMPERATURE REACHES 165°.

SPRINKLER SYSTEM INTERFACE WIRING DIAGRAM-TYPICAL
NOT TO SCALE

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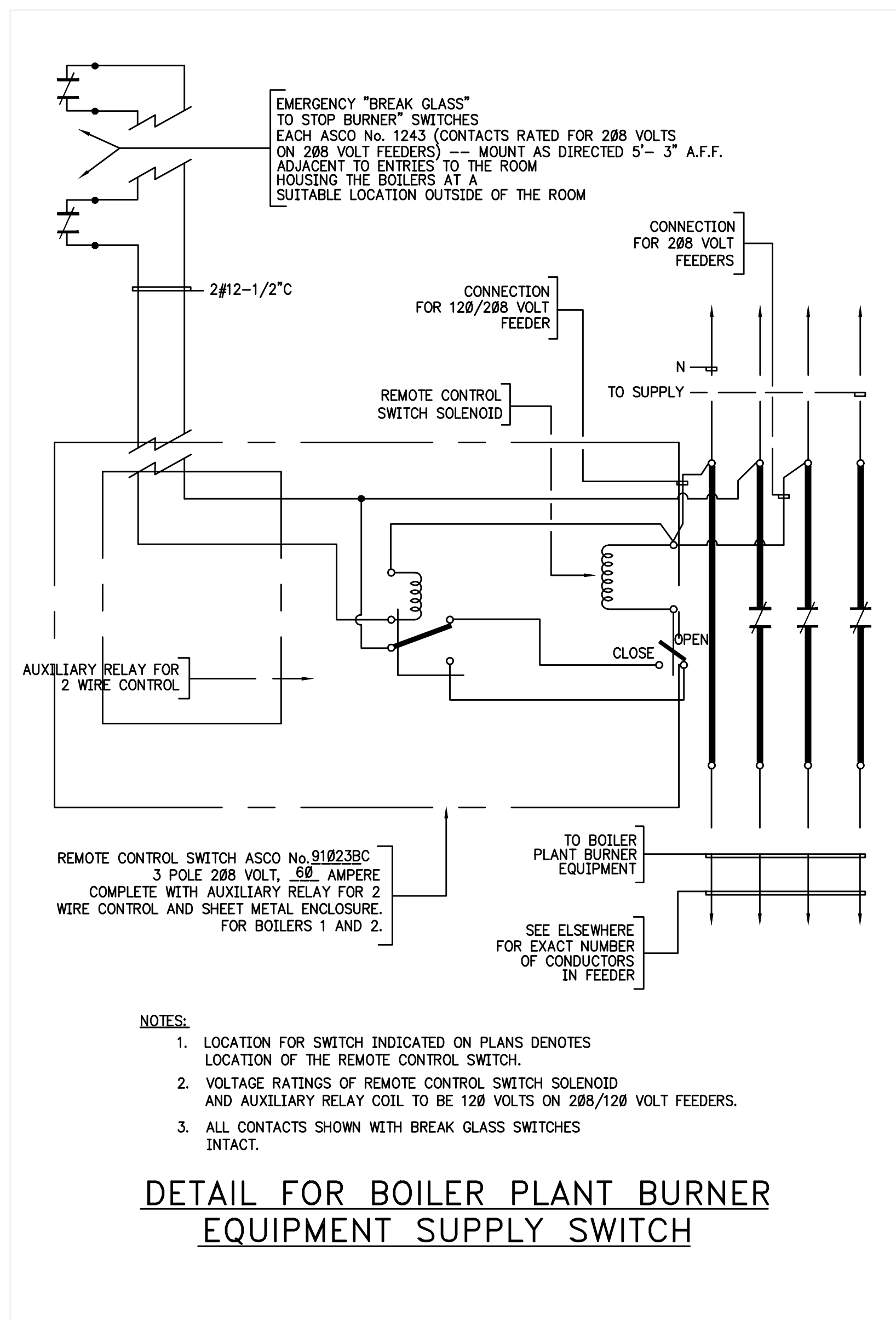
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JOHN J. OSKWAREK, PROFESSIONAL ENGINEER
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NJ Certificate of Authorization No: 24GA28188000

ELECTRICAL DETAILS

SCALE:	NO SCALE	DATE:	05/20/2016
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DRAWING NO.

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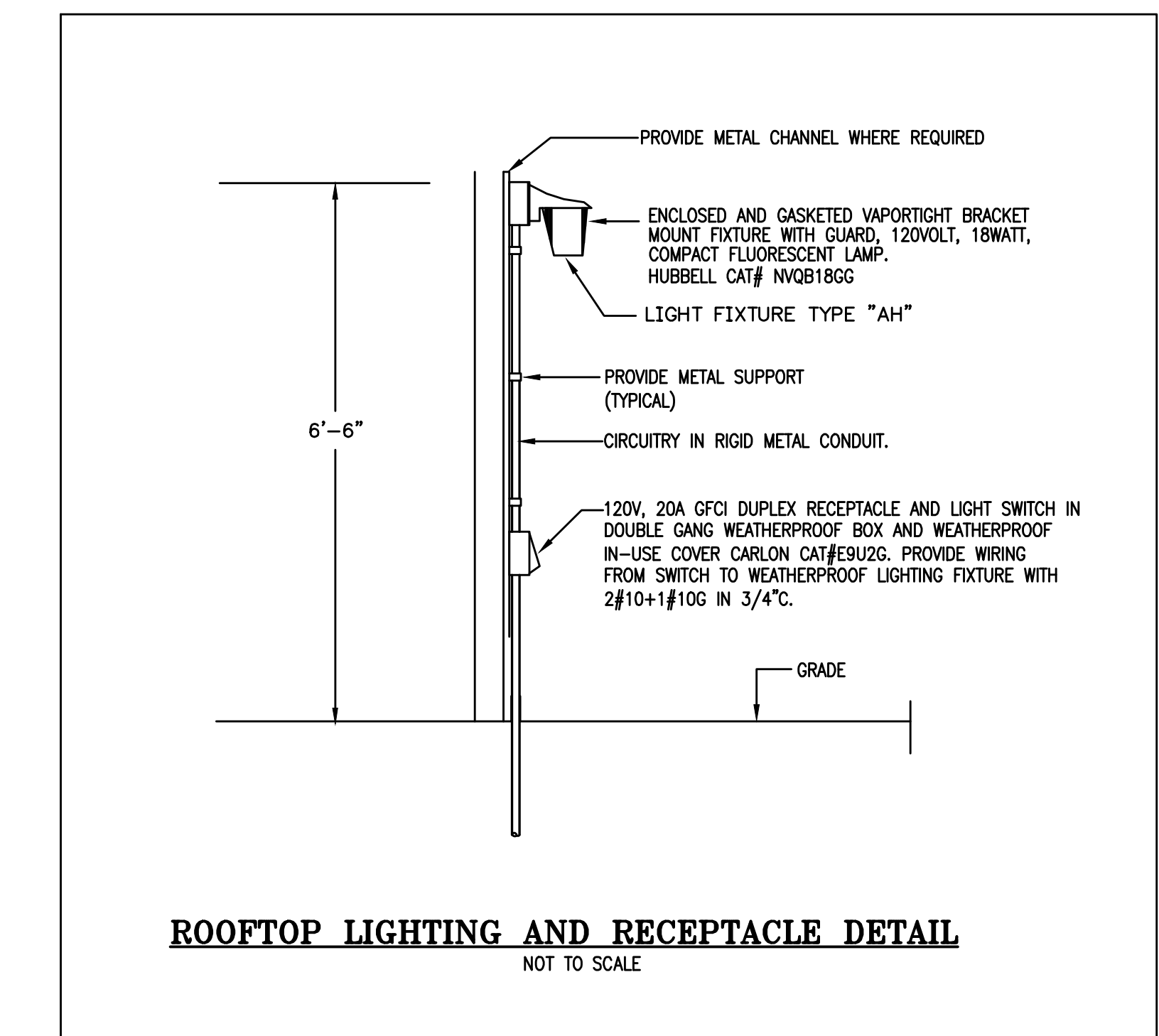
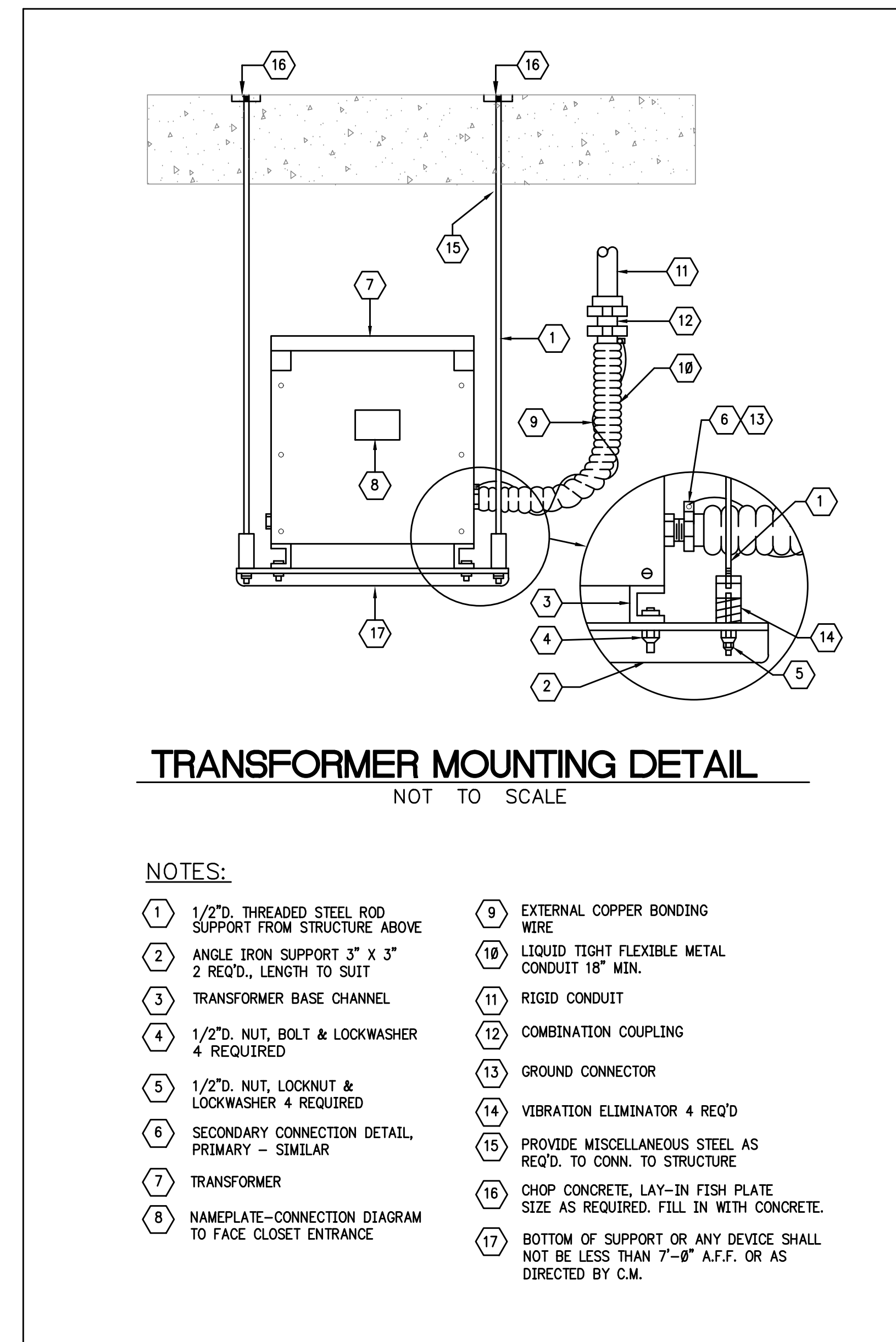
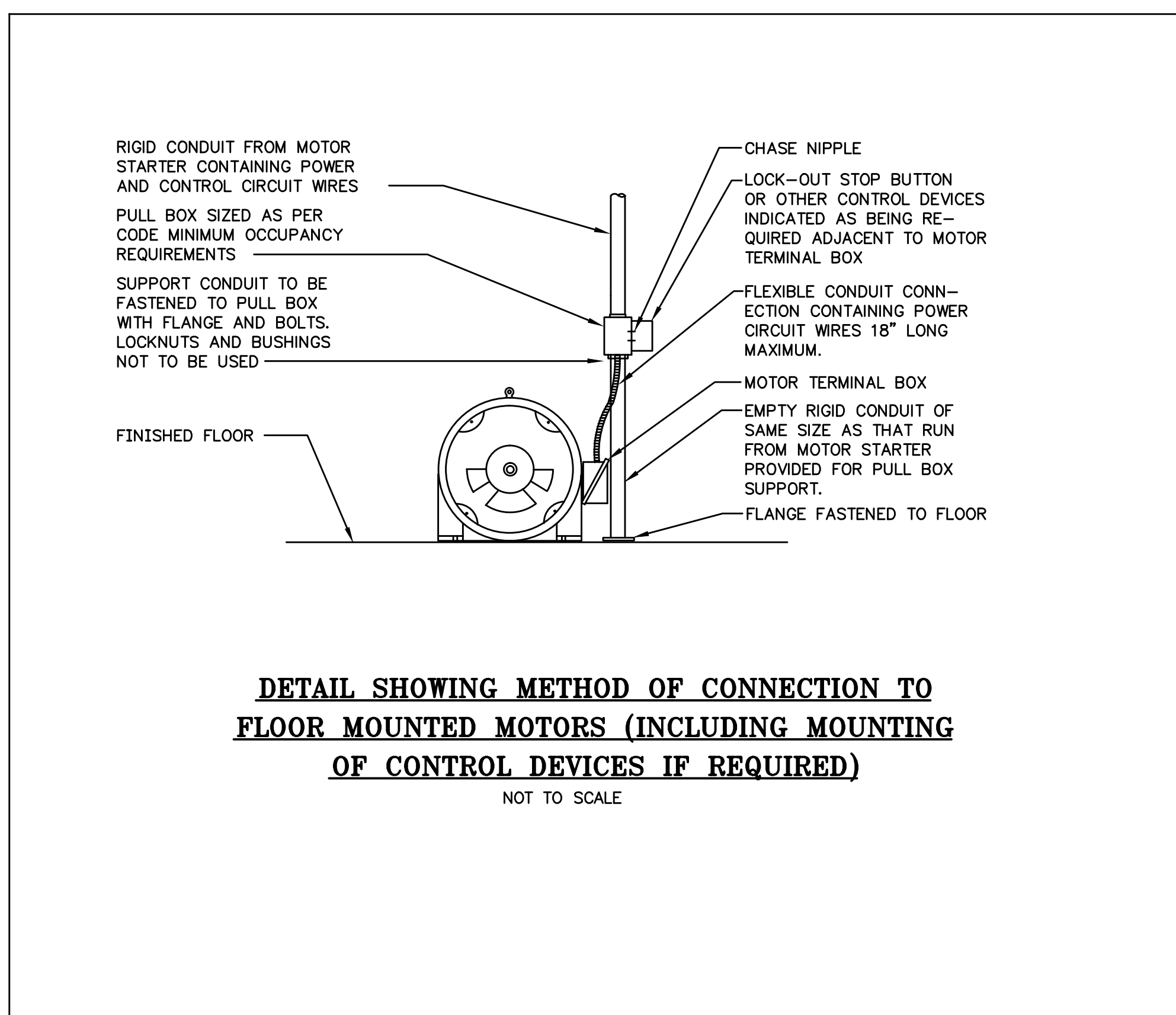
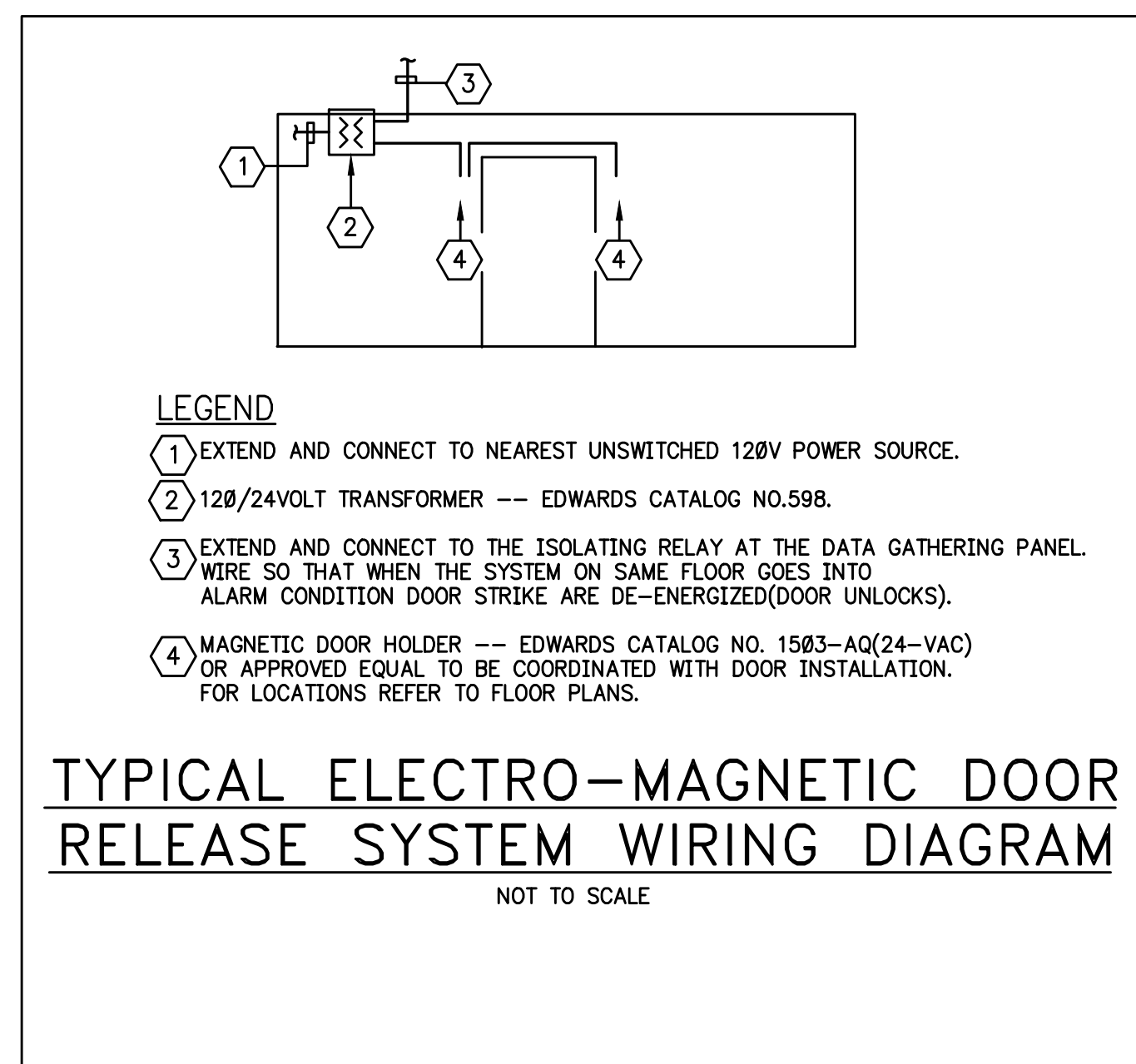
NOTES:

1. A SEPARATE PIPE HEATER STRIP COMPLETE WITH THERMOSTAT AND ALL APPURTENANCES, IS REQUIRED IN CONJUNCTION WITH EACH SYMBOL FOR WHICH A REFERENCE TO THESE SPECIFICATIONS IS MADE. MULTIPLE CABLES MAY BE ATTACHED TO ONE THERMOSTAT, PROVIDED THAT THE TOTAL LENGTH OF CABLES DOESN'T EXCEED MAXIMUM SAFE LENGTH.
2. INSTALL HEATER STRIP AS A SINGLE RUN (OR MULTIPLE PARALLEL RUNS WHERE CABLE FOOTAGE SO REQUIRES) ALONG WATER PIPING BEFORE INSULATION IS APPLIED TO SAME.
3. FASTEN HEATER STRIP TO PIPING WITH GLASS ADHESIVE TAPE (RAYCHEM CAT. NO. "GT-66") APPLIED AT INTERVALS NOT EXCEEDING 1" ON CENTERS AND IN ALL CASES AS REQUIRED TO MAINTAIN THE HEATER STRIP IN CONTINUOUS CONTACT WITH THE METAL OF THE WATER PIPING.
4. DO NOT CONNECT THE BUS WIRES TOGETHER; XL-TRACE IS A PARALLEL CIRCUITED HEATER STRIP.
5. FURNISH AND INSTALL ON THE OUTLET BOX FROM WHICH THE HEATER IS SUPPLIED, A 120 VOLT, 22 AMP, SINGLE POLE, DOUBLE THROW, 25-225°F, AMBIENT TYPE THERMOSTAT (RAYCHEM CAT. NO. "AMC-1A") IN NEMA TYPE 4 WATERTIGHT ENCLOSURE.
6. CONNECT INCOMING CIRCUIT THROUGH THERMOSTAT TO HEATER STRIP.
7. UTILIZE 1/2" FLEXIBLE METALLIC CONDUIT TO PROTECT WIRE BETWEEN THERMOSTAT AND POINT WHERE IT CONNECTS TO HEATER STRIP.
8. WHERE THE TEMPERATURE OF THE FLUID IN A PIPE WILL EXCEED 150°F, SUBSTITUTE RAYCHEM "SXTVI-CI" STRIP OR "10XTVI-CI" STRIP FOR 5 AND 8 WATT APPLICATIONS RESPECTIVELY, (AND ACCESSORIES) FOR HEATER STRIP SPECIFIED. MODIFY CIRCUITRY IF REQUIRED.
9. PROVIDE PIPE HEATER STRIP OF REQUIRED LENGTH, WITH ALL APPURTENANCES, AND IN ACCORDANCE WITH THE FOLLOWING:

A. BASED ON THE INDICATED OUTPUT, SELECT HEATER STRIP AND AUXILIARY COMPONENTS FOR SAME FROM THE TABLE BELOW:

ELECTRIC OUTPUT (AT 50°F)	CIRCUIT BREAKER SIZE (STARTED AT 50°F)	RATED VOLTAGE	MAXIMUM SAFE TEMPERATURE °F	MAXIMUM SAFE LENGTH FEET	IDENTIFICATION OF APPROVED COMPONENTS			
					HEATER STRIP	END SEAL	SPLICE OR TEE KIT	POWER CONNECTION KIT
5 WATTS/FT	.07	120	150	250	5XL1-CR	FTC-E	FTC-HST	FTC-P
8	.10	120	150	190	8XL1-CR	FTC-E	FTC-HST	FTC-P

SPECIFICATION NOTES FOR ELECTRIC PIPE TRACING



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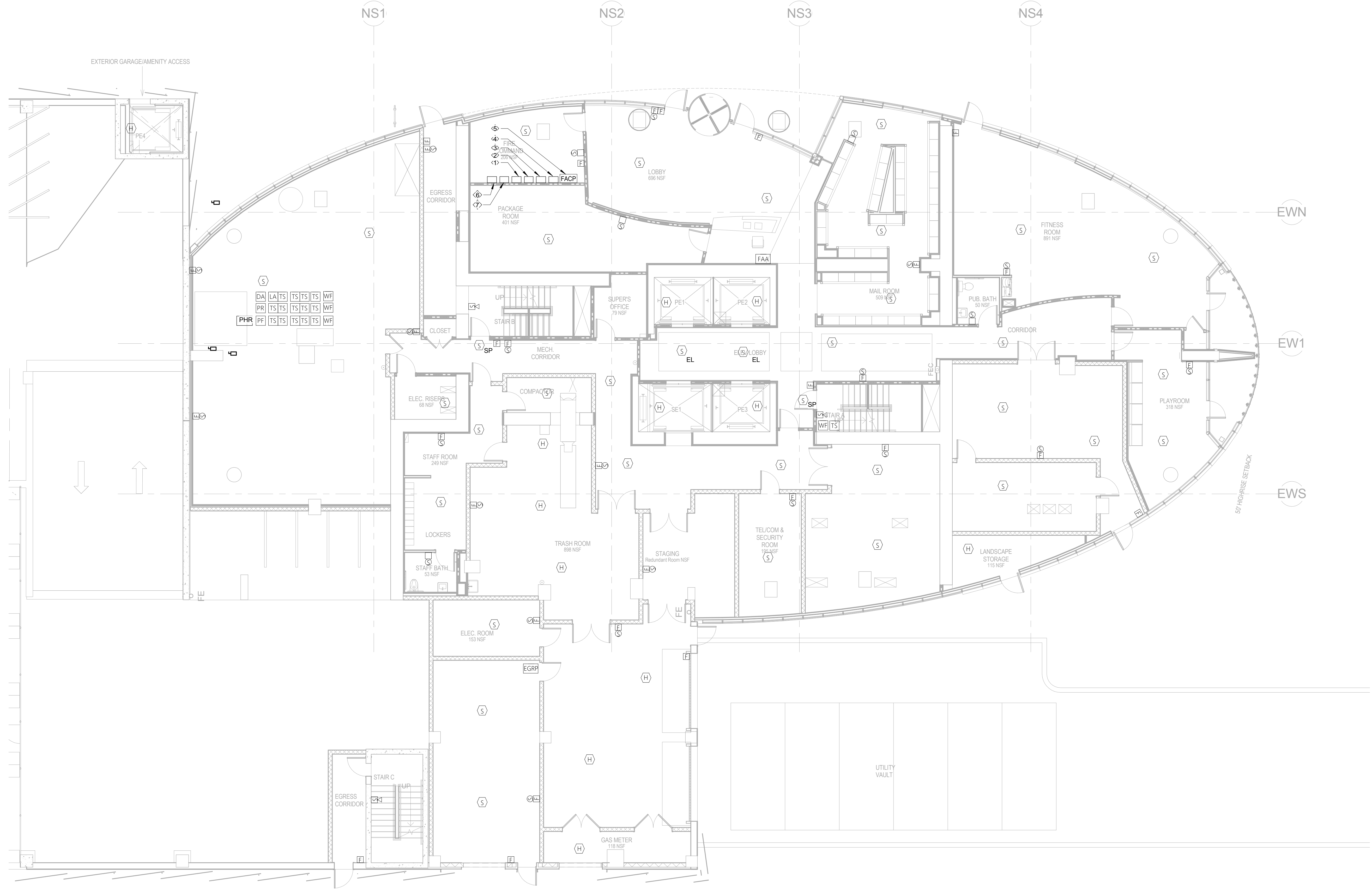
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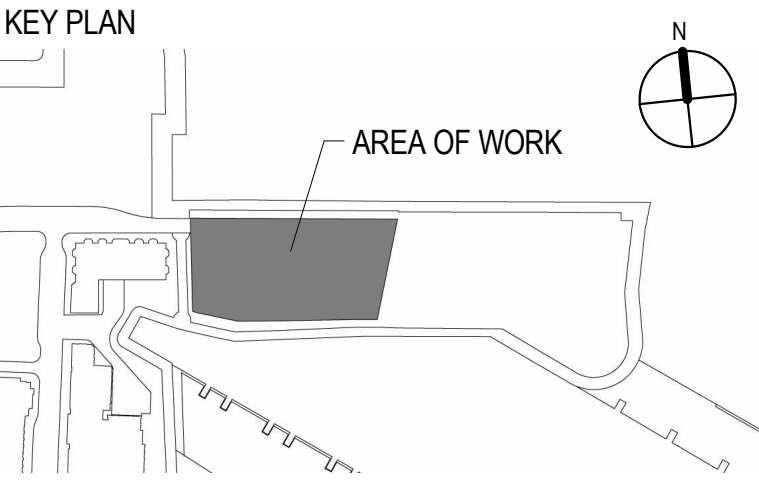
- # REFERENCE NOTES
1. TELEPHONE
 2. GENERATOR REMOTE ANNUNCIATOR AND CONTROLS.
 3. ELEVATOR REMOTE ANNUNCIATOR.
 4. ATS REMOTE ANNUNCIATOR.
 5. FIRE ALARM CONTROL PANEL WITH INTEGRAL FIRE FIGHTERS CONTROL PANEL.
 6. FAN CONTROL PANEL FOR SP-01 & SP-02.
 7. PRINTER

1 TOWER 1ST FLOOR FIRE ALARM PLAN
1/8" = 1'-0"



ELLIPSE
25 Park Lane South
Jersey City, NJ 07310

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05/20/16		ISSUED FOR CONSTRUCTION



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 JOHN J. OSKWAJEK, PROFESSIONAL ENGINEER
 NJ License No: 24GE04413400
 NJ Certificate of Authorization No: 24GA28188000

Drawing Title
1ST FLOOR TOWER FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: SS	PROJECT NO. 15029

DRAWING NO.

FA-201

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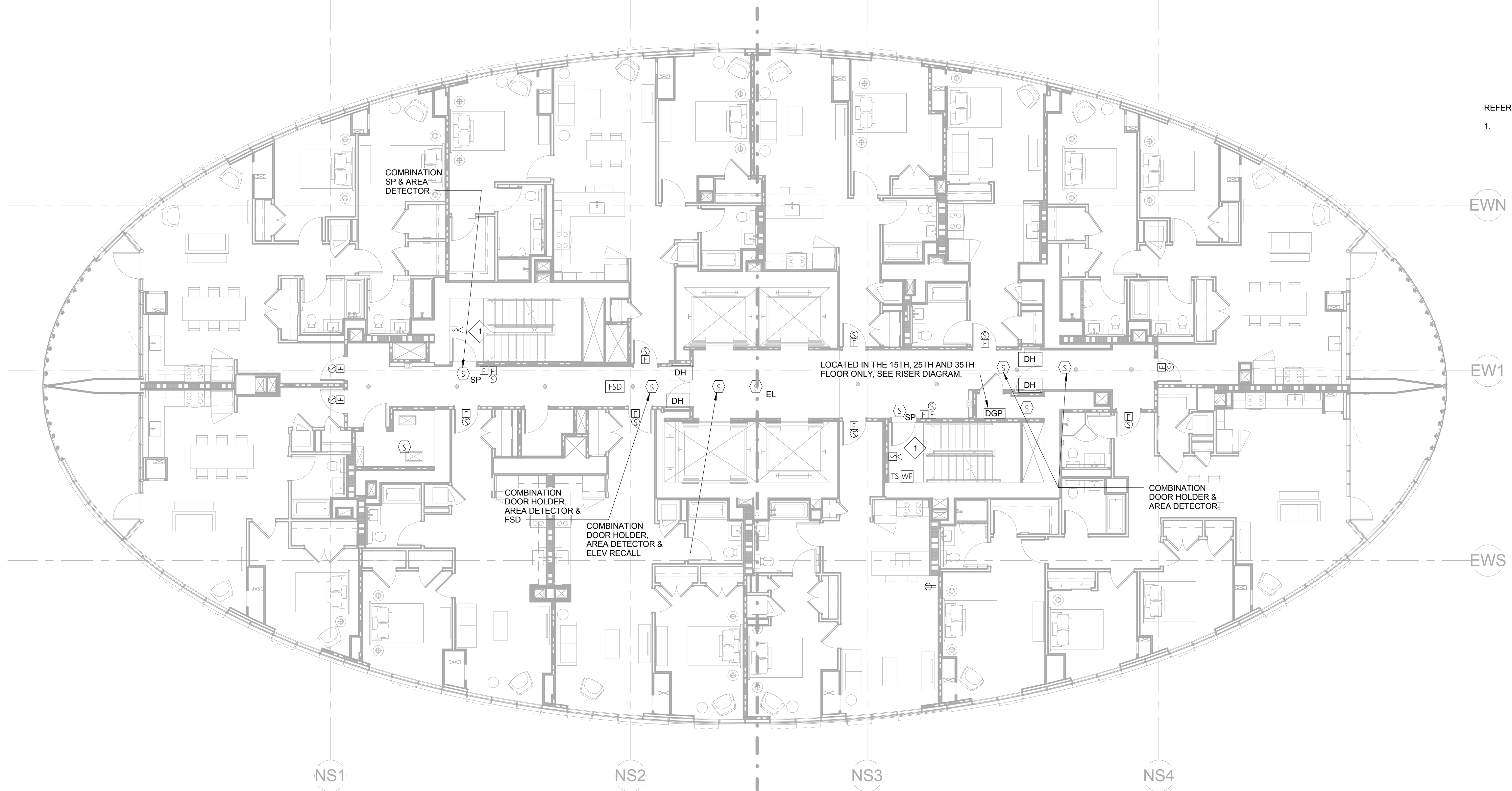
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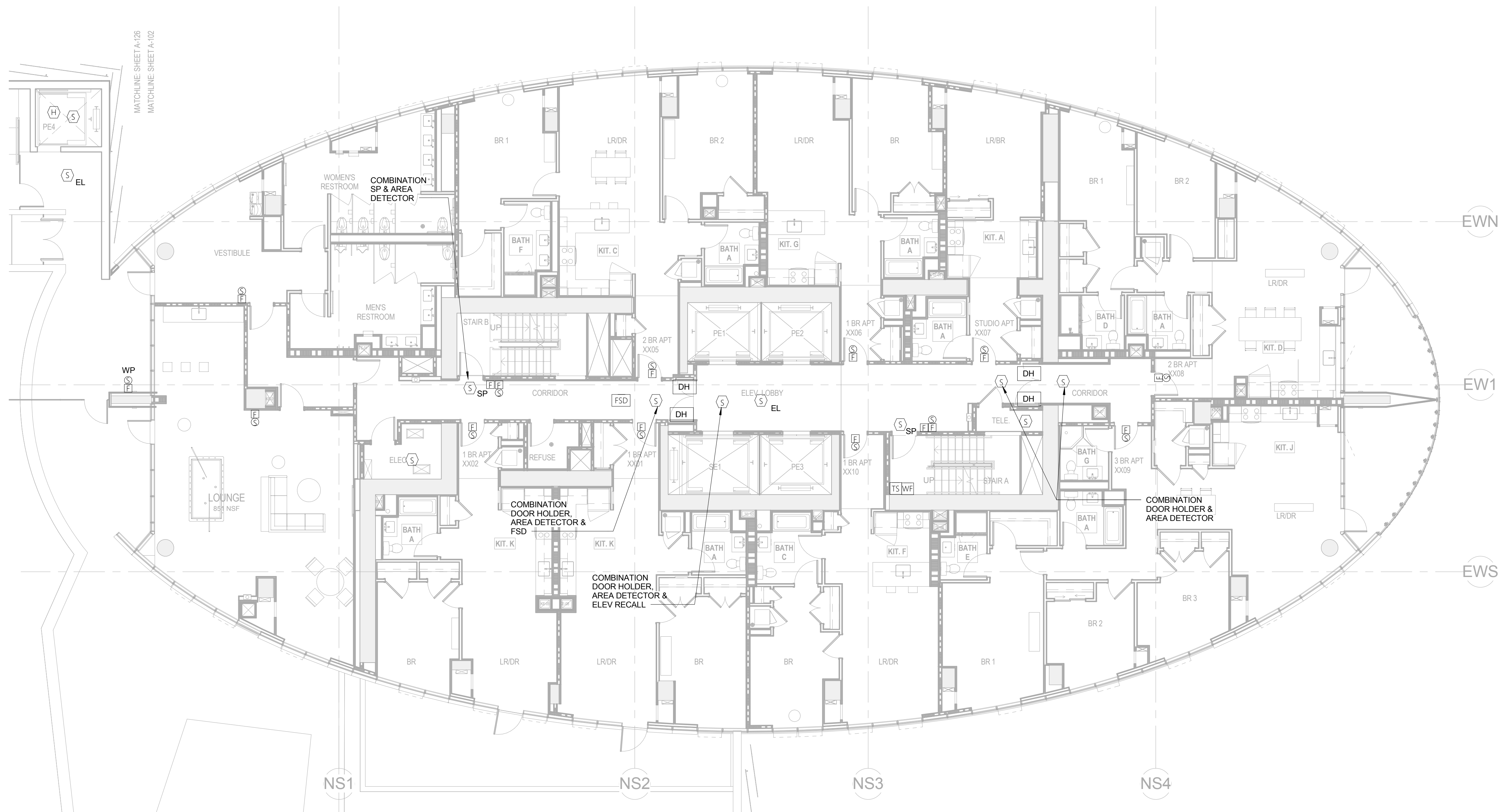
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2 TOWER 7TH-39TH FLOOR FIRE ALARM PLAN
1/8" = 1'-0"



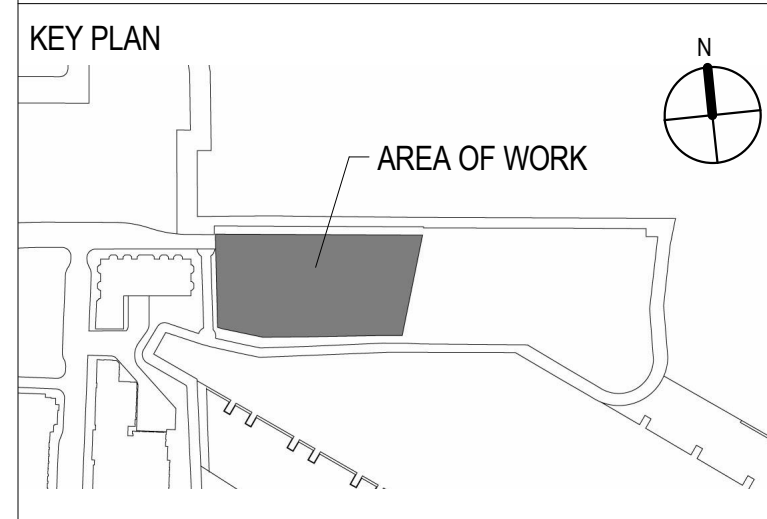
1 TOWER 6TH FLOOR FIRE ALARM PLAN
1/8" = 1'-0"

F E D C B A



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25 Park Lane South
Jersey City, NJ 07310

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NJ Certificate of Authorization No: 24GA28188000

Drawing Title
6TH-39TH FLOOR FIRE ALARM PLANS

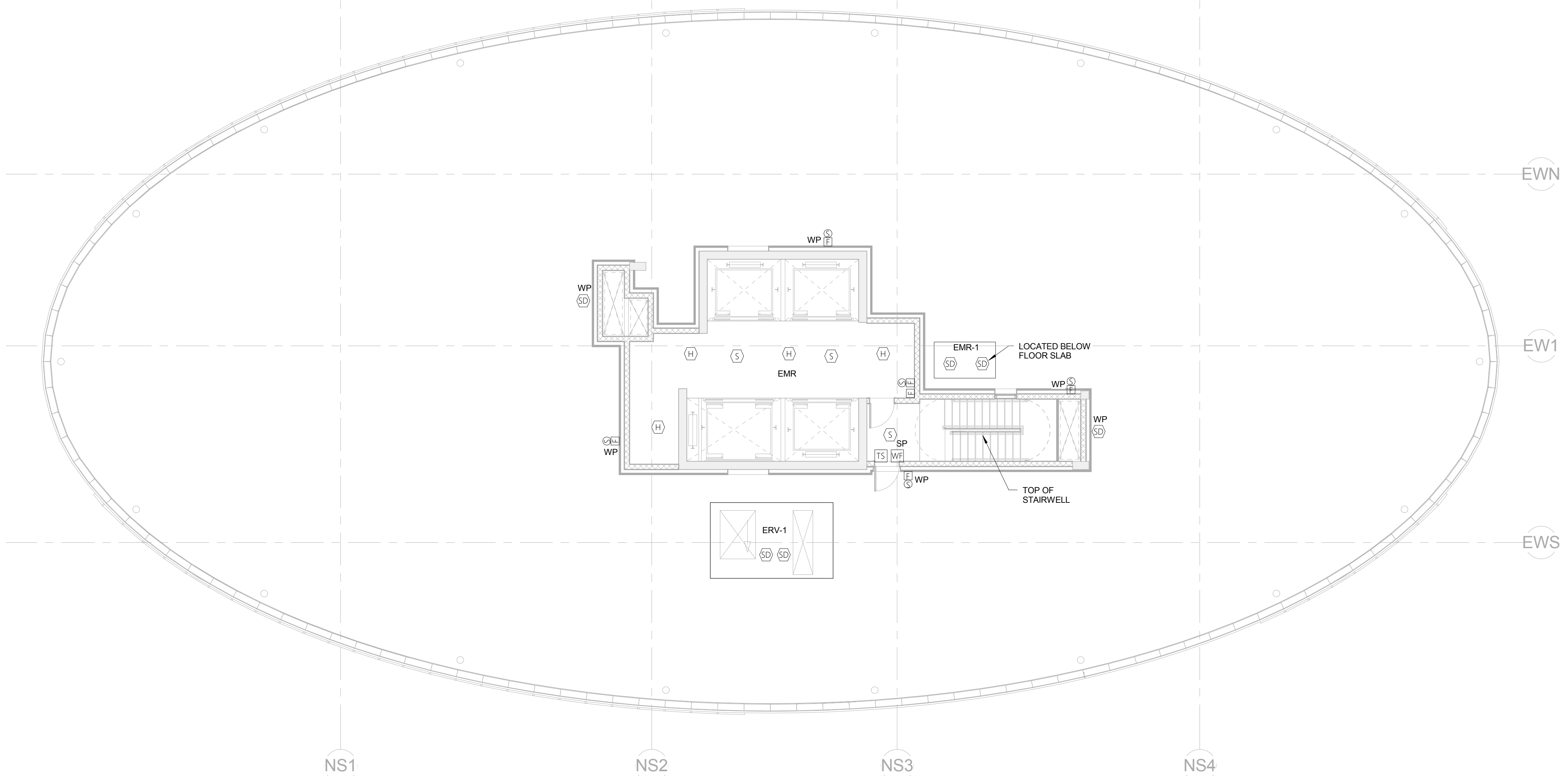
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CHECKED BY: SS	PROJECT NO. 15029

DRAWING NO.
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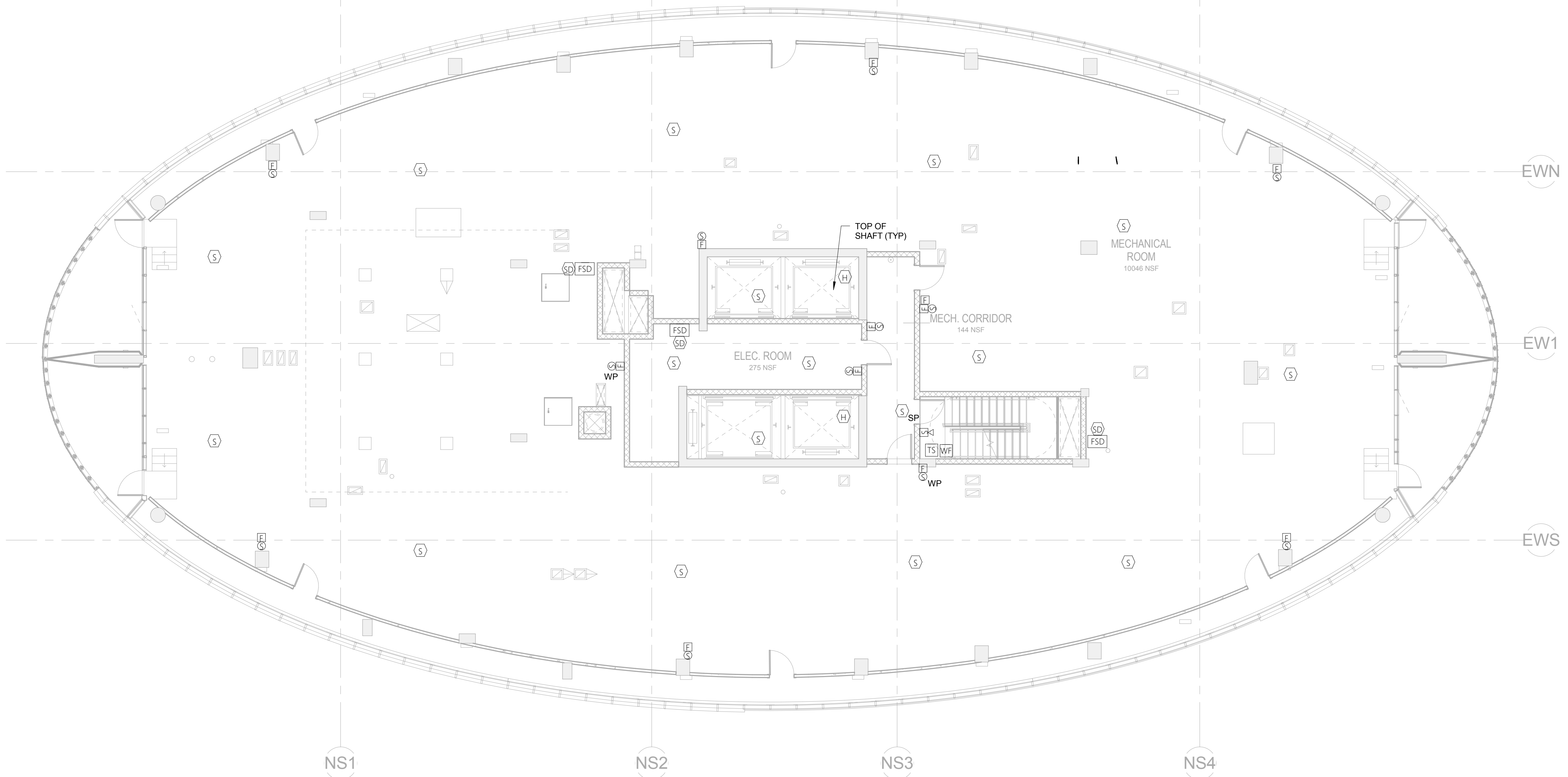
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2 TOWER 43RD EMR FIRE ALARM PLAN
1/8" = 1'-0"



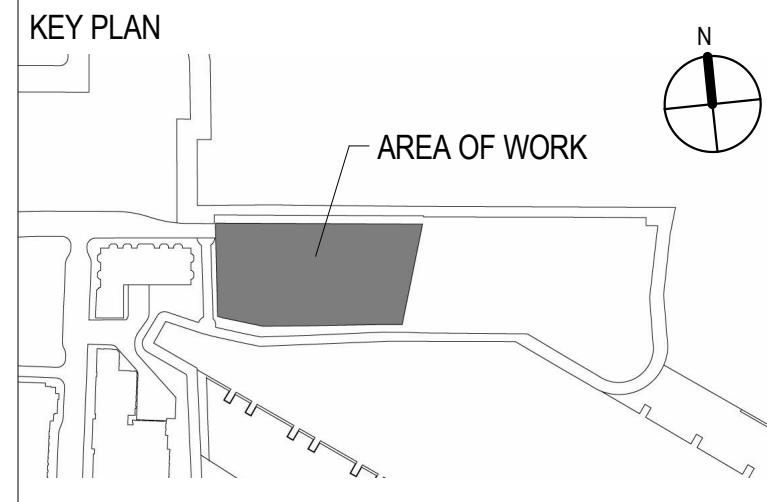
1 TOWER 42ND ROOF FIRE ALARM PLAN
1/8" = 1'-0"

F E D C B A



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NJ Certificate of Authorization No: 24GA28188000

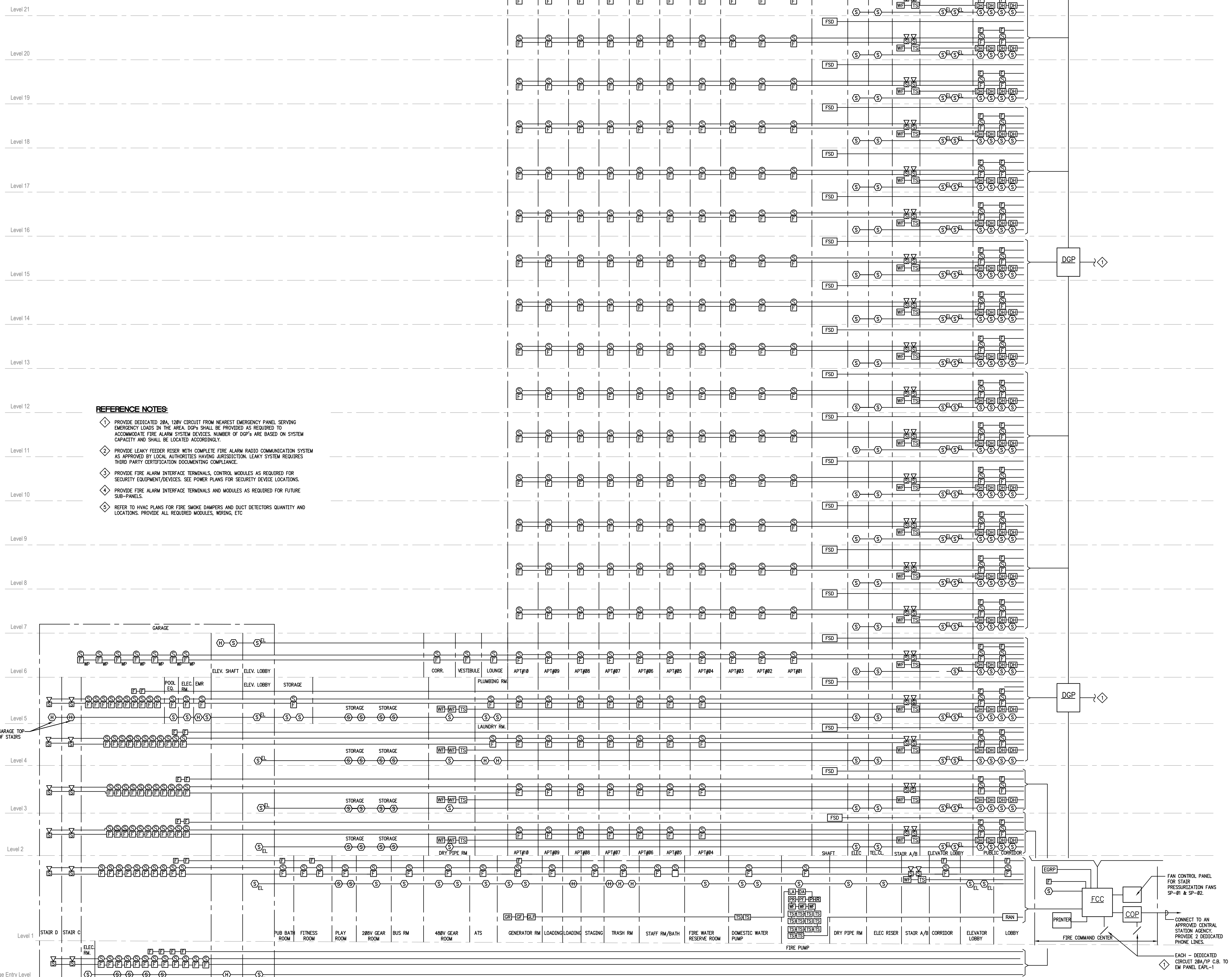
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ROOF & EMR FIRE ALARM PLANS

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: SS	PROJECT NO. 15029

DRAWING NO.
FA-206

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F E D C B A

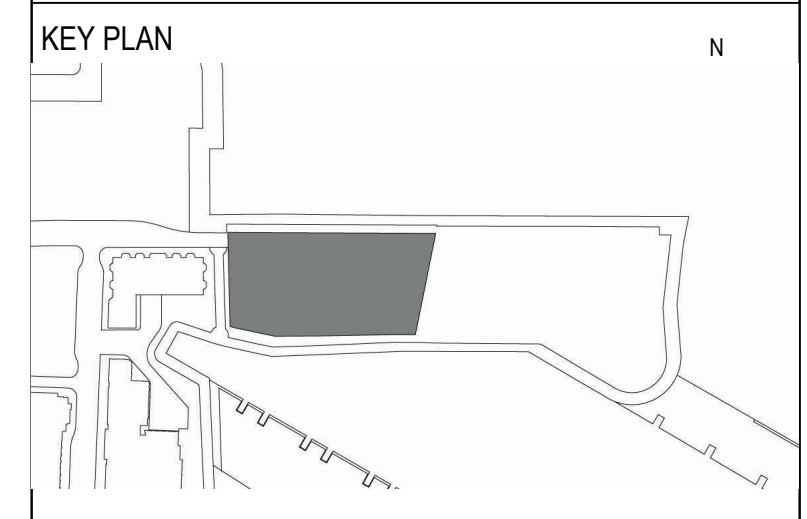


- REFERENCE NOTES:**
- ◇ PROVIDE DEDICATED 20A, 120V CIRCUIT FROM NEAREST EMERGENCY PANEL SERVING EMERGENCY LOADS IN THE AREA. DGP'S SHALL BE PROVIDED AS REQUIRED TO ACCOMMODATE FIRE ALARM SYSTEM DEVICES. NUMBER OF DGP'S ARE BASED ON SYSTEM CAPACITY AND SHALL BE LOCATED ACCORDINGLY.
 - ◇ PROVIDE LEAKY FEEDER RISER WITH COMPLETE FIRE ALARM RADIO COMMUNICATION SYSTEM AS APPROVED BY LOCAL AUTHORITIES HAVING JURISDICTION. LEAKY SYSTEM REQUIRES THIRD PARTY CERTIFICATION DOCUMENTING COMPLIANCE.
 - ◇ PROVIDE FIRE ALARM INTERFACE TERMINALS, CONTROL MODULES AS REQUIRED FOR SECURITY EQUIPMENT/DEVICES. SEE POWER PLANS FOR SECURITY DEVICE LOCATIONS.
 - ◇ PROVIDE FIRE ALARM INTERFACE TERMINALS AND MODULES AS REQUIRED FOR FUTURE SUB-PANELS.
 - ◇ REFER TO HVAC PLANS FOR FIRE SMOKE DAMPERS AND DUCT DETECTORS QUANTITY AND LOCATIONS. PROVIDE ALL REQUIRED MODULES, WIRING, ETC



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 NJ Certificate of Authorization No: 24GA28188000

Drawing Title
FIRE ALARM RISER DIAGRAM SHEET 1 OF 2

SCALE: NO SCALE DATE: 05/20/2016

CHECKED BY: SS PROJECT NO. 15029

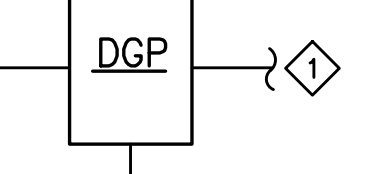
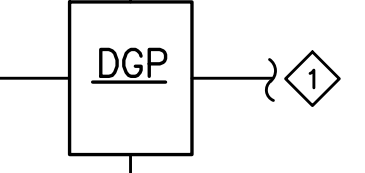
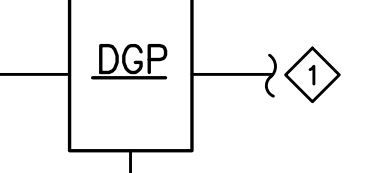
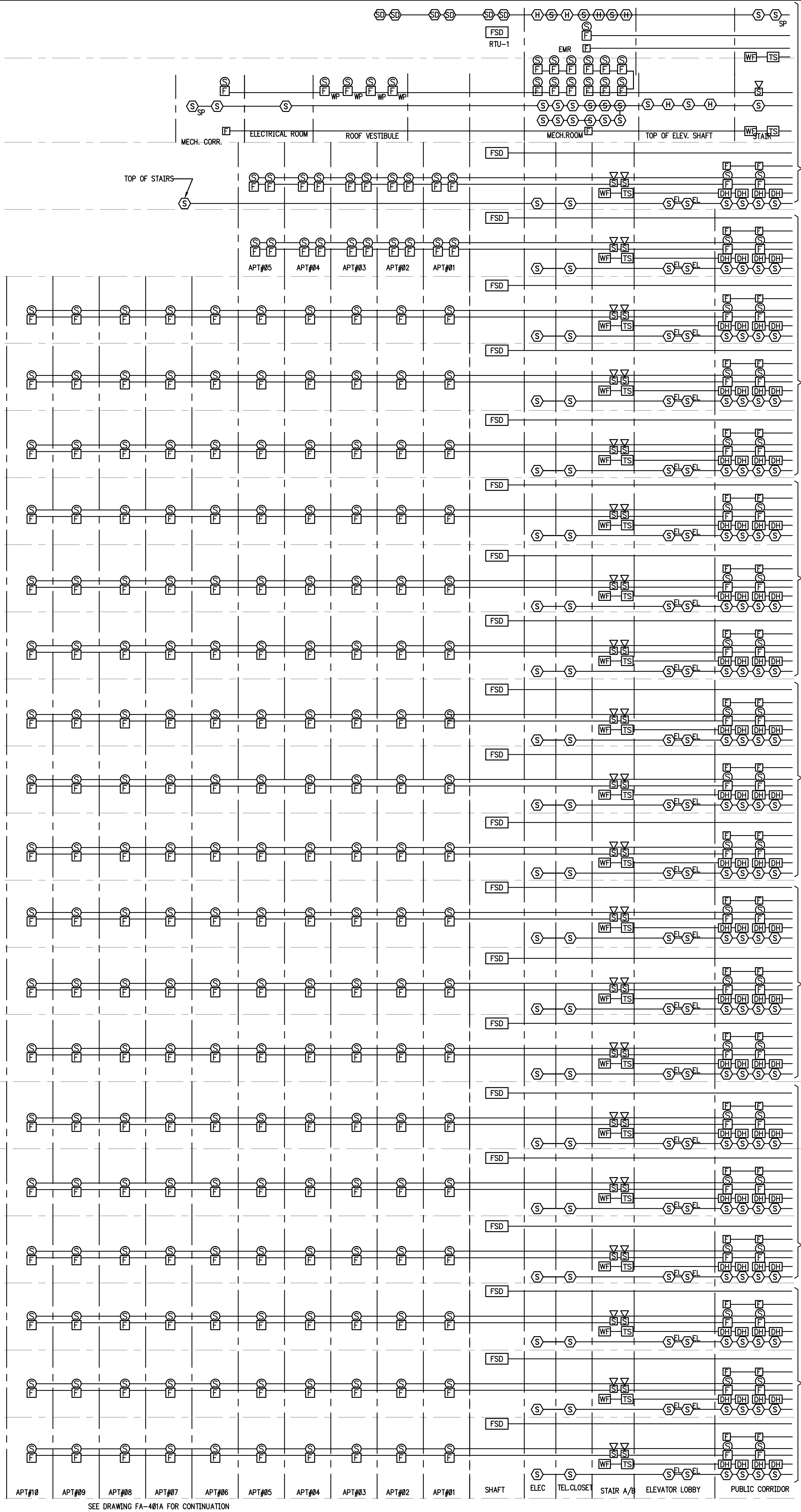
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FA-401A

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EMR Level 43
 ROOF- MER- Level 42
 Level 41
 Level 40
 Level 39
 Level 38
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 Level 36
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 Level 34
 Level 33
 Level 32
 Level 31
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 Level 29
 Level 28
 Level 27
 Level 26
 Level 25
 Level 24
 Level 23
 Level 22

- REFERENCE NOTES:**
- 1. PROVIDE DEDICATED 20A, 120V CIRCUIT FROM NEAREST EMERGENCY PANEL SERVING EMERGENCY LOADS IN THE AREA. DGP'S SHALL BE PROVIDED AS REQUIRED TO ACCOMMODATE FIRE ALARM SYSTEM DEVICES. NUMBER OF DGP'S ARE BASED ON SYSTEM CAPACITY AND SHALL BE LOCATED ACCORDINGLY.
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 - 4. PROVIDE FIRE ALARM INTERFACE TERMINALS AND MODULES AS REQUIRED FOR FUTURE SUB-PANELS.
 - 5. REFER TO HVAC PLANS FOR FIRE SMOKE DAMPERS AND DUCT DETECTORS QUANTITY AND LOCATIONS. PROVIDE ALL REQUIRED MODULES, WIRING, ETC.

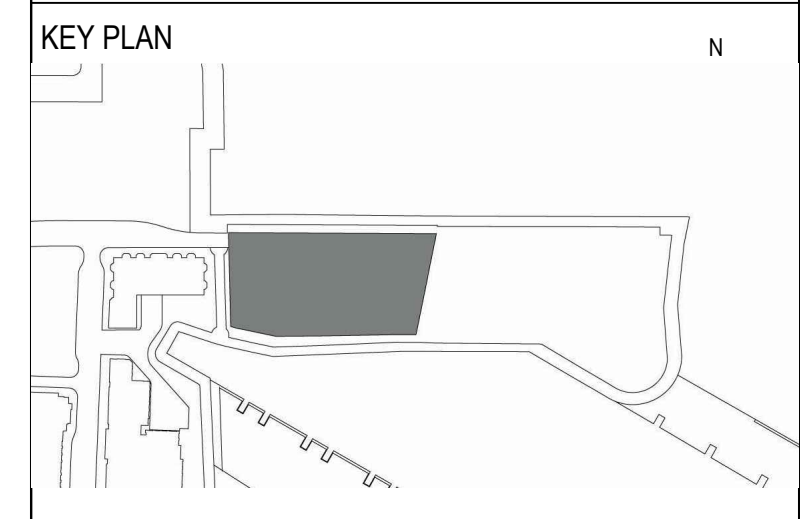


APT#10 APT#09 APT#08 APT#07 APT#06 APT#05 APT#04 APT#03 APT#02 APT#01
 SHAFT ELEC TEL.CLOSET STAIR A/B ELEVATOR LOBBY PUBLIC CORRIDOR
 SEE DRAWING FA-401A FOR CONTINUATION



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05/20/16		ISSUED FOR CONSTRUCTION



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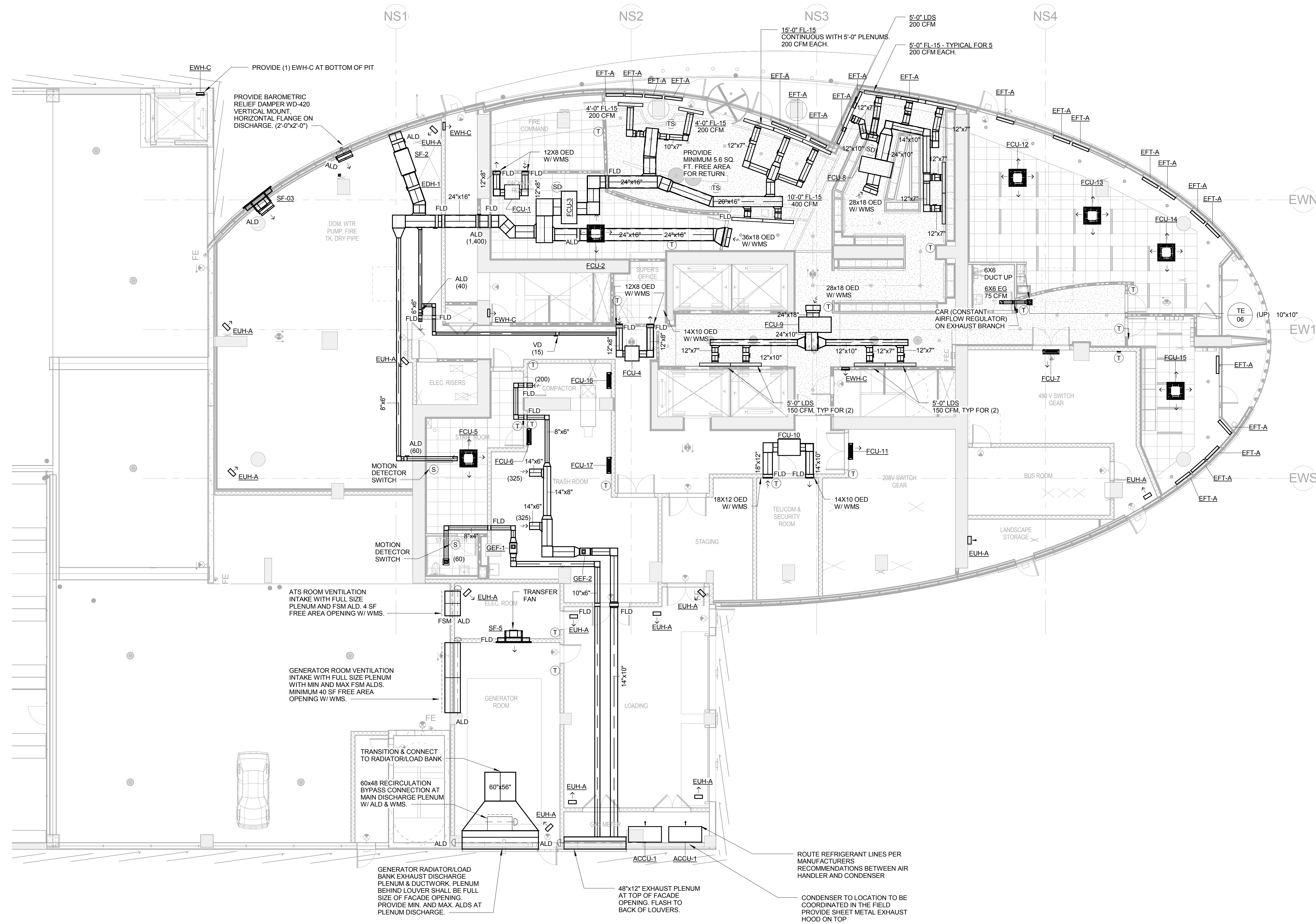
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FIRE ALARM RISER DIAGRAM SHEET 2 OF 2

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DRAWING NO.

FA-401B

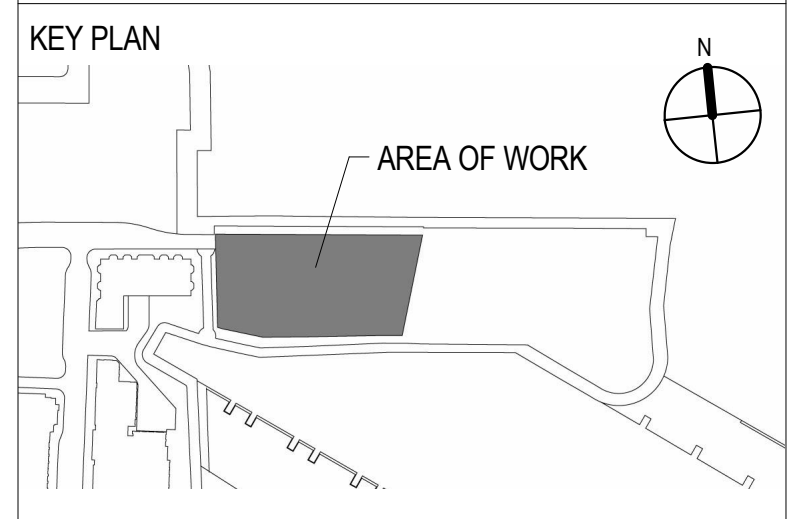


1 TOWER 1ST FLOOR MECHANICAL HVAC PLAN
1/8" = 1'-0"



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▲	05/09/16	REVISION 1
	05/20/16	ISSUED FOR CONSTRUCTION



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NJ Certificate of Authorization No. 24GA28188000

Drawing Title
**1ST FLOOR TOWER
MECHANICAL HVAC PLAN**

SCALE: 1/8" = 1'-0" DATE: 05/20/2016
CHECKED BY: JM PROJECT NO. 15029

DRAWING NO.
M-201

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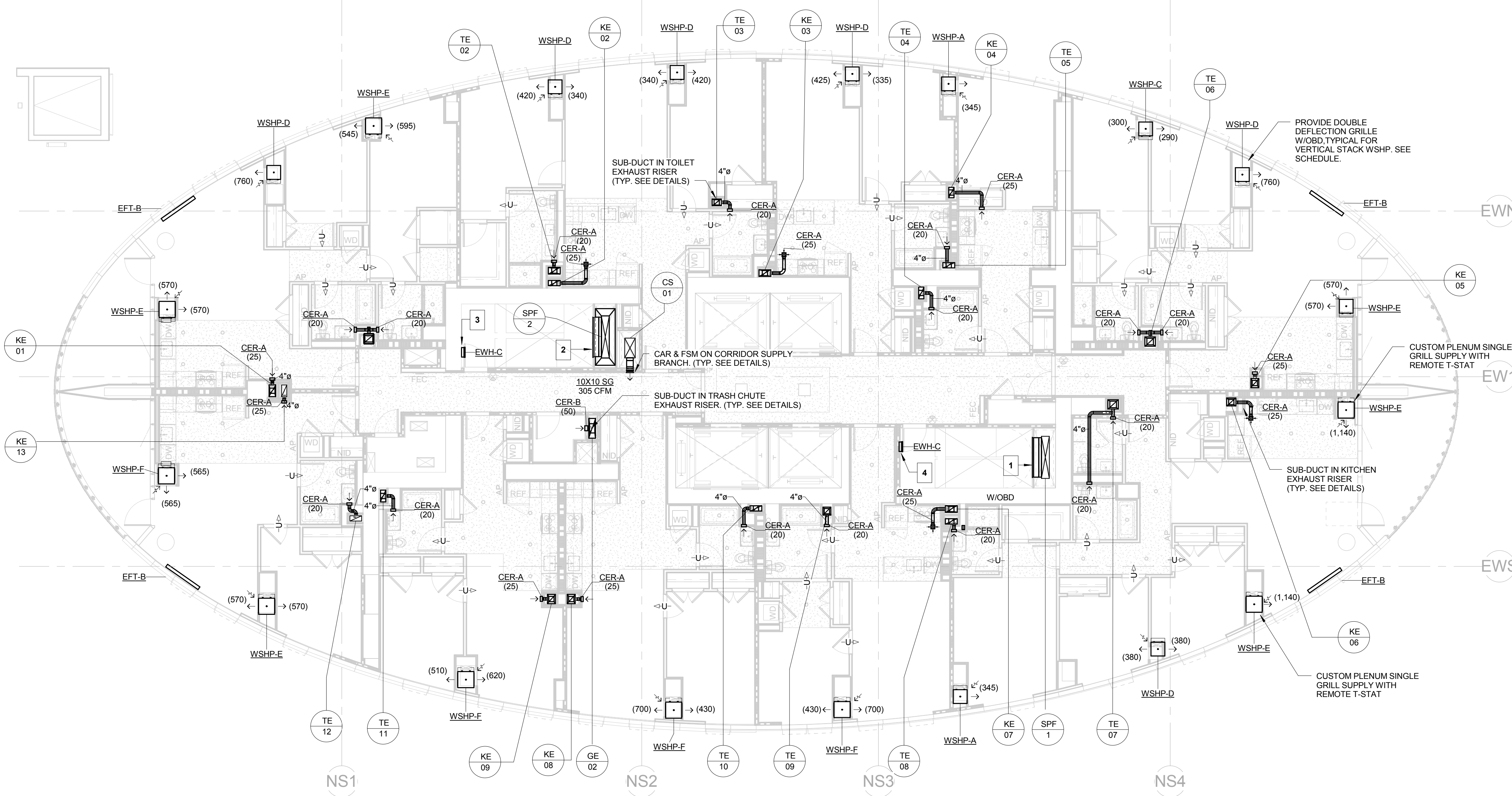
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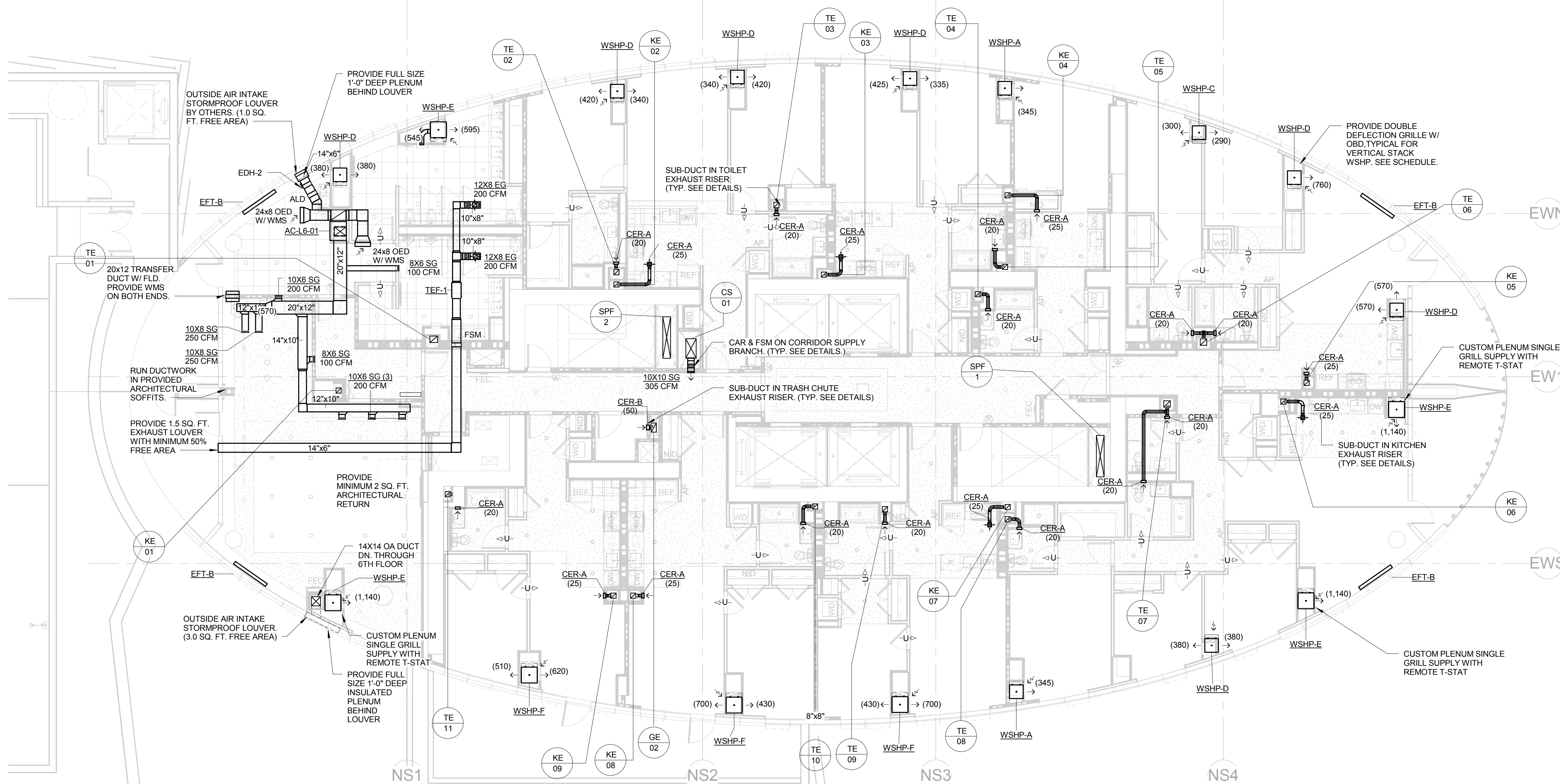
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2 TOWER 7TH-39TH FLOOR MECHANICAL HVAC PLAN
1/8" = 1'-0"

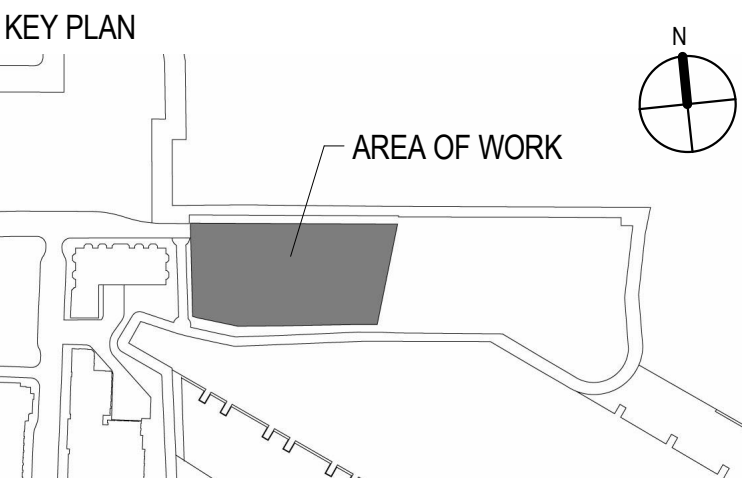


1 TOWER 6TH FLOOR MECHANICAL HVAC PLAN
1/8" = 1'-0"



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- KEY NOTES**
1. PROVIDE 60x18SG (3050CFM) W/OBD ON THE FOLLOWING FLOORS: 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, & 37. (SPF-1 DUCT RISER)
 2. PROVIDE 60x18SG (3050CFM) W/OBD ON THE FOLLOWING FLOORS: 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, & 37. (SPF-2 DUCT RISER)
 3. PROVIDE ELECTRICAL WALL HEATER EWH-C ON 7, 12, 17, 20, 26, 31, & 36 FLOOR STAIR LANDINGS
 4. PROVIDE ELECTRICAL WALL HEATER EWH-C ON 7, 12, 17, 20, 26, 31, & 36 FLOOR STAIR LANDINGS

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35 WEST 35TH STREET
NEW YORK, NY 10011

STRUCTURAL ENGINEER
MCNAMARA SALVIA
62 WEST 45TH STREET, 11TH FLOOR
NEW YORK, NY 10036

PRECAST ENGINEER
CIVILSMITH ENGINEERING, INC.
2160 SANDY DR., SUITE C
STATE COLLEGE, PA 16803

CIVIL ENGINEER
DRESSNER ROBIN
1 EVERREST PLAZA, SUITE 901
JERSEY CITY, NJ 07302

MEP ENGINEER
ICOR CONSULTING ENGINEERS
485C ROUTE 1 SOUTH, SUITE 200
ISELIN, NJ 08830

VERTICAL TRANSPORTATION
CBA ELEVATOR CONSULTANTS
190 MAIN STREET, SUITE 402
HACKENSACK, NJ 07601

POOL DESIGN
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

Engineer of Record
ICOR
Consulting Engineers
485C Route 1 South, Suite 200
Iselin, NJ 08830
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f: 908-272-4440
website: www.icorassociates.com
JOHN J. OSKWA/REC, PROFESSIONAL ENGINEER
NJ License No. 24GE00413400
NJ Certificate of Authorization No. 24GA28188000

Drawing Title
**6TH-39TH FLOOR
MECHANICAL HVAC
PLANS**

SCALE: 1/8" = 1'-0" DATE: 05/20/2016
CHECKED BY: JM PROJECT NO. 15029

DRAWING NO. **M-204**

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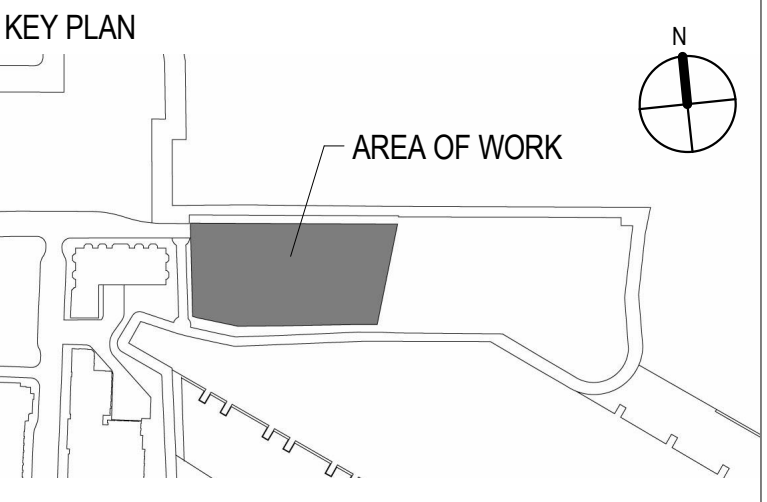
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B

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NO.	DATE	ISSUE OR REVISION
	10/16/15	ISSUED FOR FILING
	11/20/15	ISSUED FOR BID
	02/05/16	ISSUED FOR CONSTRUCTION
	05/09/16	REVISION 1
	05/20/16	ISSUED FOR CONSTRUCTION



CLIENT
ELLIPSE BUILDING LLC
 111 TOWN SQUARE PLACE, 15TH FLOOR
 JERSEY CITY, NJ 07310

ARCHITECT OF RECORD
HLW INTERNATIONAL
 122 MAIN STREET
 MADISON, NJ 07940

DESIGN ARCHITECT
ARQUITECTONICA
 100 FIFTH AVENUE, 10TH FLOOR
 NEW YORK, NY 10011

FAÇADE CONSULTANT
FRANK SETA ASSOCIATES LLC
 38 WEST 35TH STREET
 NEW YORK, NY 10001

STRUCTURAL ENGINEER
MCNAMARA SALVIA
 62 WEST 45TH STREET, 11TH FLOOR
 NEW YORK, NY 10036

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 STATE COLLEGE, PA 16803

CIVIL ENGINEER
DRESNER ROBIN
 1 EVERREST PLAZA, SUITE 901
 JERSEY CITY, NJ 07302

MEP ENGINEER
ICOR CONSULTING ENGINEERS
 485C ROUTE 1 SOUTH, SUITE 200
 SEELIN, NJ 08630

VERTICAL TRANSPORTATION
CBA ELEVATOR CONSULTANTS
 190 MAIN STREET, SUITE 402
 HACKENSACK, NJ 07601

POOL DESIGN
TRACE POOL DESIGN
 333 WESTCHESTER AVENUE
 WHITE PLAINS, NEW YORK 10604

Engineer of Record

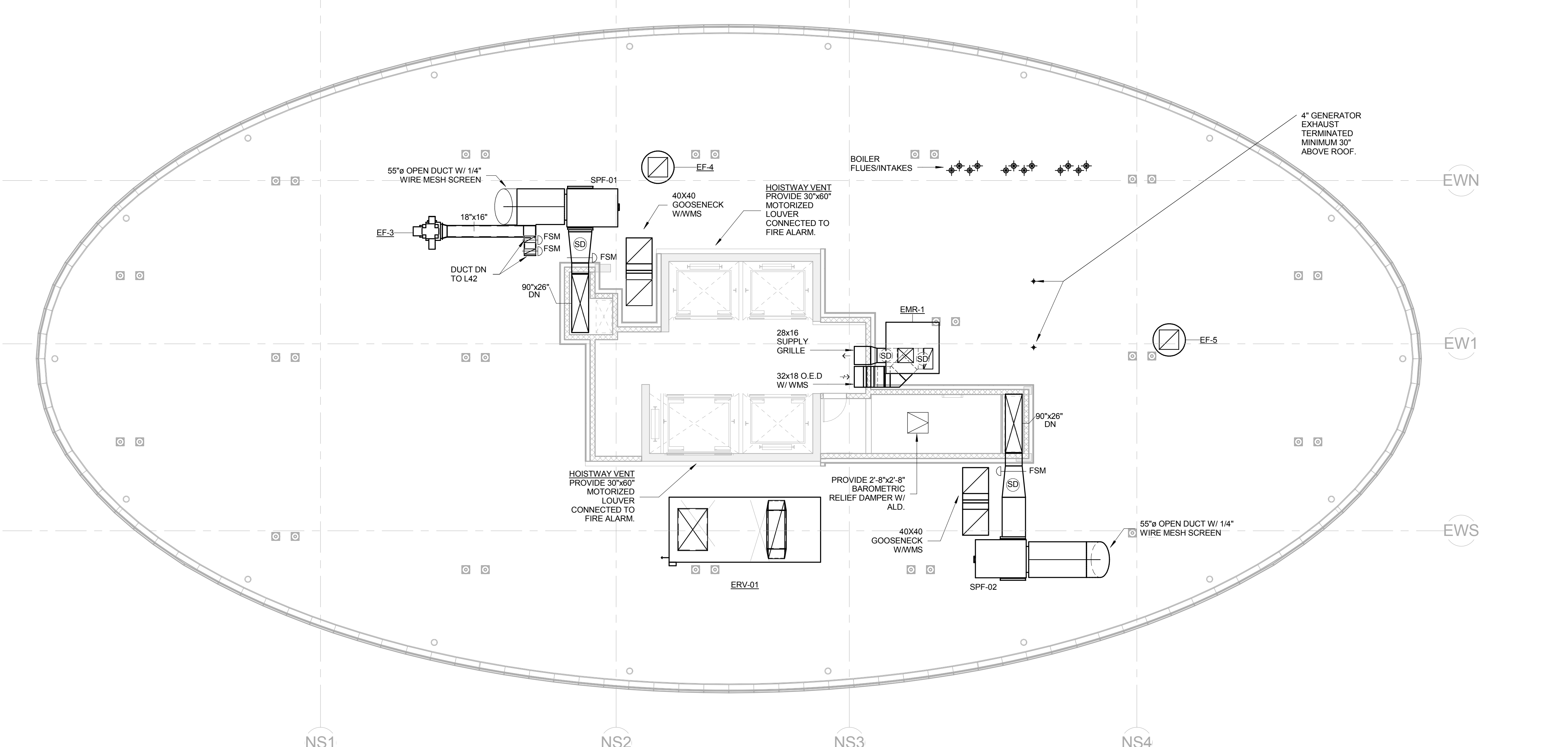
ICOR
 Consulting Engineers
 485C Route 1 South, Suite 200
 Seelin, NJ 08630
 o: 908-272-3300
 f: 908-272-4440
 website: www.icorassociates.com
 JOHN J. OSKWARIEK, PROFESSIONAL ENGINEER
 NJ License No: 24GE00413400
 NJ Certificate of Authorization No: 24GA28188000

Drawing Title
**ROOF & EMR
 MECHANICAL HVAC
 PLANS**

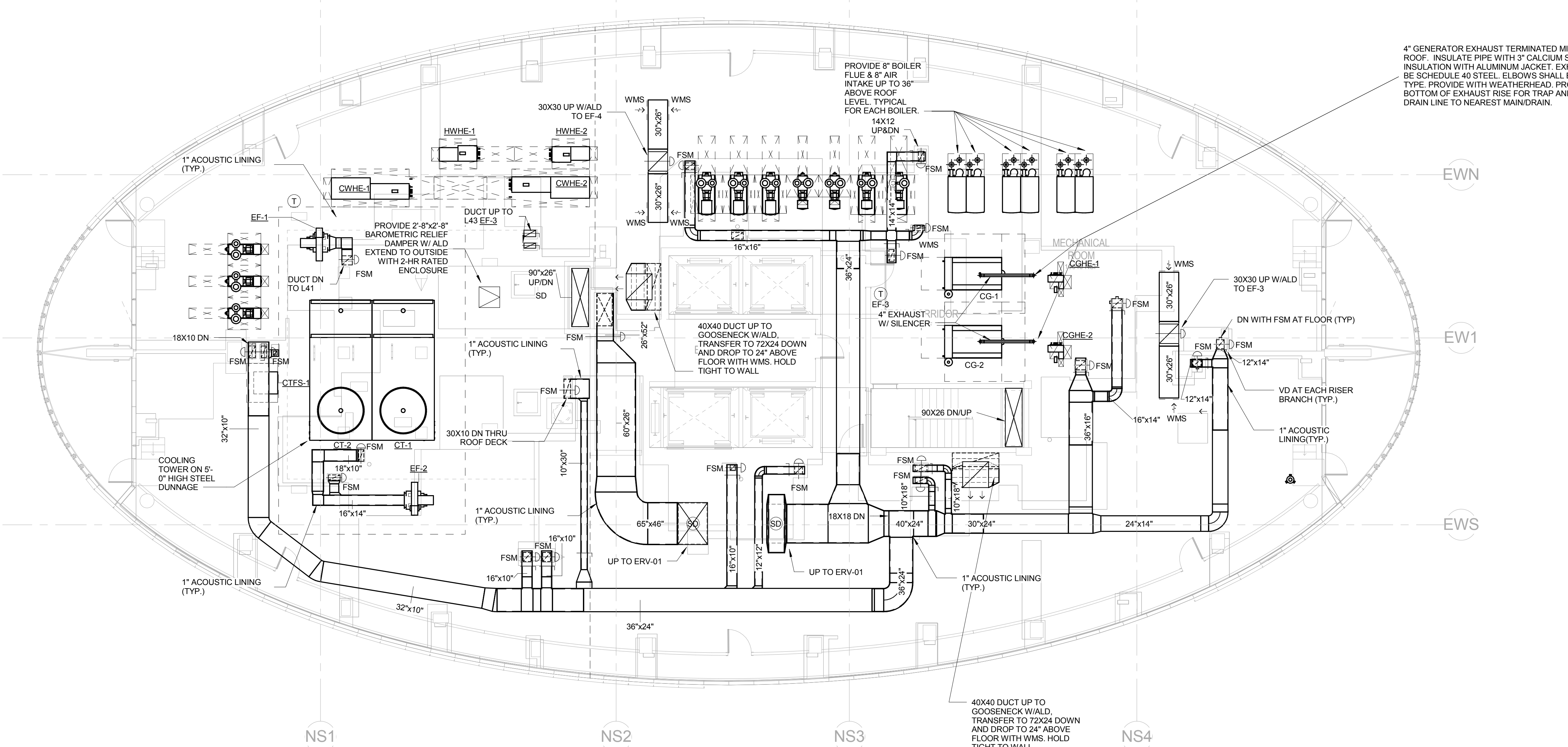
SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: JM	PROJECT NO. 15029

DRAWING NO.

M-206



2 TOWER 43RD EMR MECHANICAL HVAC PLAN
 1/8" = 1'-0"

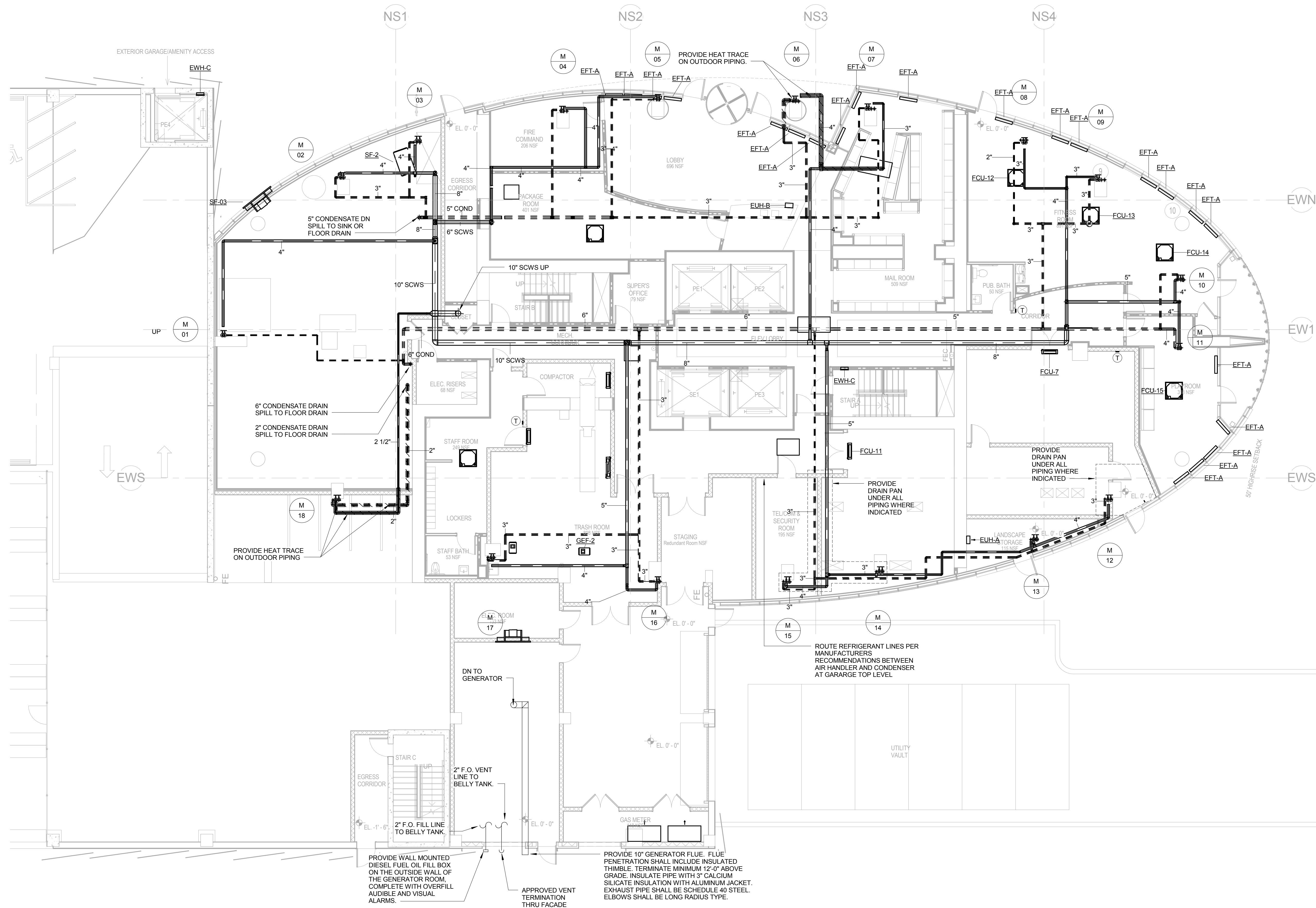


1 TOWER 42 ROOF MECHANICAL HVAC PLAN
 1/8" = 1'-0"

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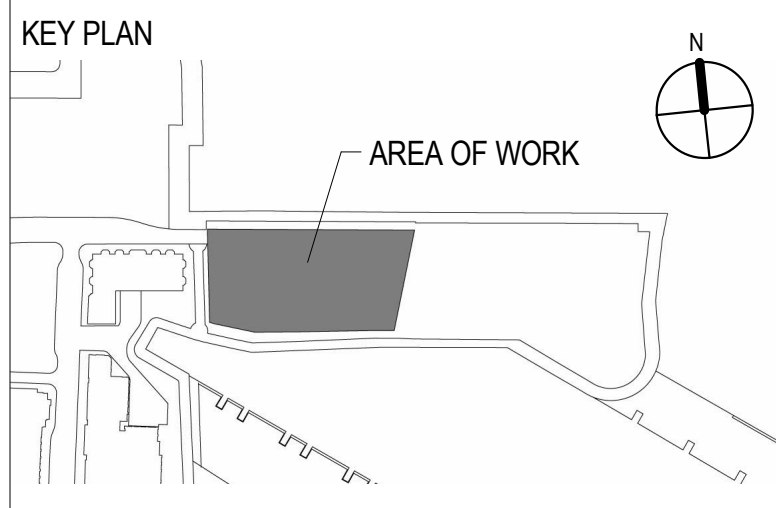
7
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ELLIPSE

25 Park Lane South
Jersey City, NJ 07310

NO.	DATE	ISSUE OR REVISION
10/16/15		ISSUED FOR FILING
11/20/15		ISSUED FOR BID
02/05/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



CLIENT
ELLIPSE BUILDING LLC
 111 TOWN SQUARE PLACE, 15TH FLOOR
 JERSEY CITY, NJ 07310

ARCHITECT OF RECORD
HLW INTERNATIONAL
 122 MAIN STREET
 MADISON, NJ 07940

DESIGN ARCHITECT
ARCHITECTONICA
 100 FIFTH AVENUE, 10TH FLOOR
 NEW YORK, NY 10011

FAÇADE CONSULTANT
FRANK SETA ASSOCIATES LLC
 38 WEST 35TH STREET
 NEW YORK, NY 10001

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MCNAMARA SALVIA
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 2160 SANDY DR., SUITE C
 STATE COLLEGE, PA 16803

CIVIL ENGINEER
DRESDNER ROBIN
 1 EVERREST PLAZA, SUITE 901
 JERSEY CITY, NJ 07302

MEP ENGINEER
ICOR CONSULTING ENGINEERS
 485C ROUTE 1 SOUTH, SUITE 200
 SEELIN, NJ 08830

VERTICAL TRANSPORTATION
CBA ELEVATOR CONSULTANTS
 190 MAIN STREET, SUITE 402
 HACKENSACK, NJ 07601

POOL DESIGN
TRACE POOL DESIGN
 333 WESTCHESTER AVENUE
 WHITE PLAINS, NEW YORK, 10604

Engineer of Record

ICOR
 Consulting Engineers
 485C Route 1 South, Suite 200
 Seelin, NJ 08830
 o: 908-272-3300
 f: 908-272-4440
 website: www.icorassociates.com
 JOHN J. OSKWA/PE, PROFESSIONAL ENGINEER
 NJ License No: 24620413400
 NJ Certificate of Authorization No: 246A28188000

Drawing Title
**1ST FLOOR TOWER
 MECHANICAL PIPING
 PLAN**

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: JM	PROJECT NO. 15029

DRAWING NO.

M-301

1 TOWER 1ST FLOOR MECHANICAL PIPING PLAN
 1/8" = 1'-0"

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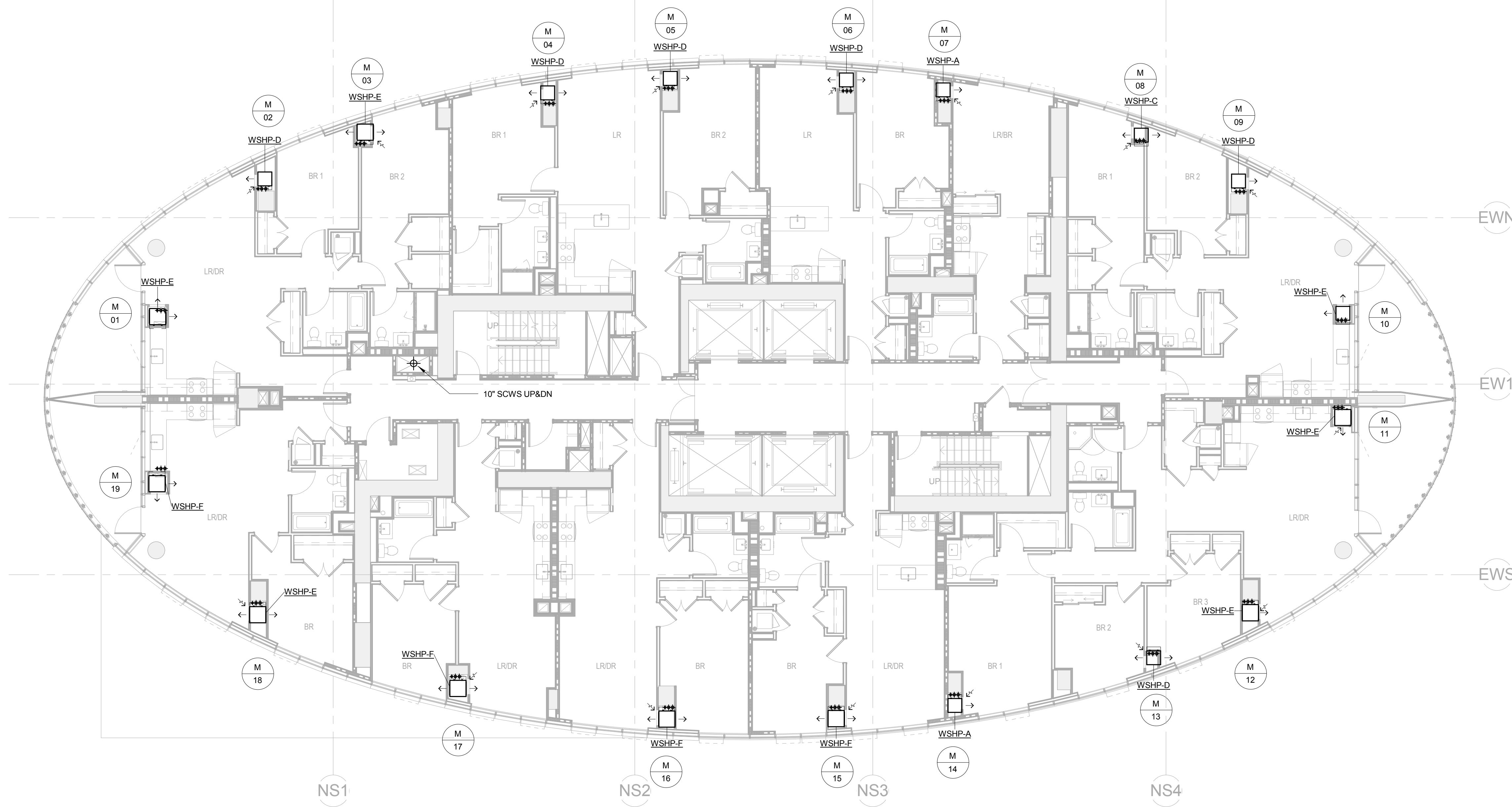
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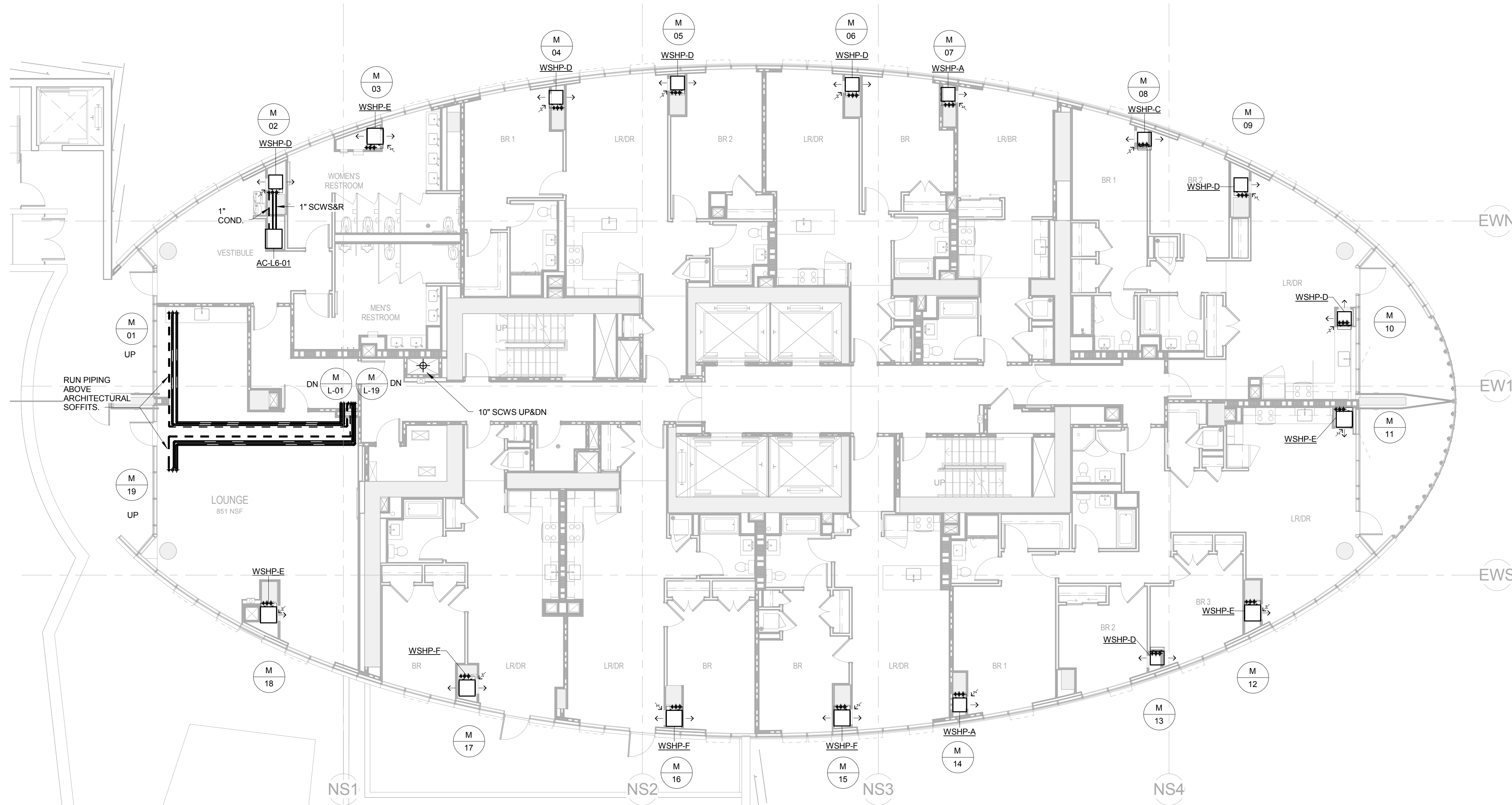
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2 TOWER 7TH-39TH FLOOR MECHANICAL PIPING PLAN
1/8" = 1'-0"



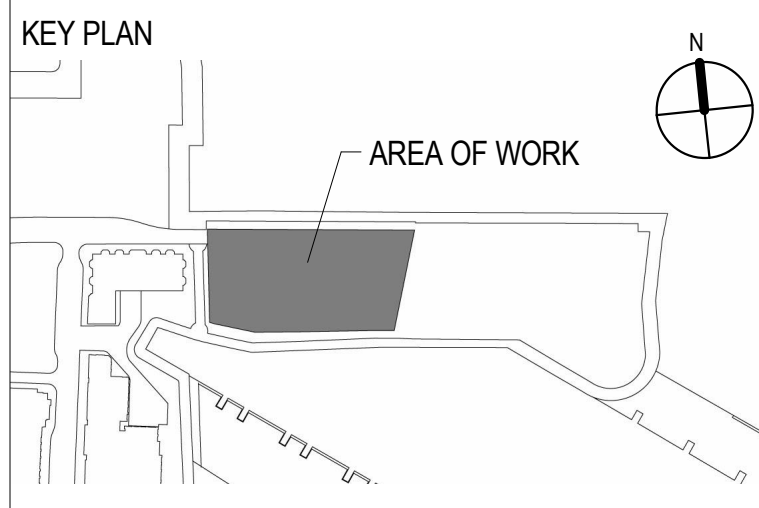
1 TOWER 6TH FLOOR MECHANICAL PIPING PLAN
1/8" = 1'-0"



ELLIPSE

25 Park Lane South
Jersey City, NJ 07310

NO.	DATE	ISSUE OR REVISION
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05/20/16		ISSUED FOR CONSTRUCTION



CLIENT
ELLIPSE BUILDING LLC
111 TOWN SQUARE PLACE, 15TH FLOOR
JERSEY CITY, NJ 07310

ARCHITECT OF RECORD
HLW INTERNATIONAL
122 MAIN STREET
MADISON, NJ 07940

DESIGN ARCHITECT
ARQUITECTONICA
100 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10011

FAÇADE CONSULTANT
FRANK SETA ASSOCIATES LLC
38 WEST 35TH STREET
NEW YORK, NY 10001

STRUCTURAL ENGINEER
MCNAMARA SALVIA
62 WEST 45TH STREET, 11TH FLOOR
NEW YORK, NY 10036

PRECAST ENGINEER
CIVILSMITH ENGINEERING, INC.
2160 SANDY DR., SUITE C
STATE COLLEGE, PA 16803

CIVIL ENGINEER
DRESDNER ROBIN
1 EVERREST PLAZA, SUITE 901
JERSEY CITY, NJ 07302

MEP ENGINEER
ICOR CONSULTING ENGINEERS
485C ROUTE 1 SOUTH, SUITE 200
ISELIN, NJ 08830

VERTICAL TRANSPORTATION
CBA ELEVATOR CONSULTANTS
190 MAIN STREET, SUITE 402
HACKENSACK, NJ 07601

POOL DESIGN
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

Engineer of Record

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Consulting Engineers
485C Route 1 South, Suite 200
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o: 908-272-3300
f: 908-272-4440
website: www.icorassociates.com
JOHN J. OSKWARIEK, PROFESSIONAL ENGINEER
NJ License No. 24GE00413400
NJ Certificate of Authorization No. 24GA28188000

Drawing Title
**6TH-39TH FLOOR
MECHANICAL PIPING
PLANS**

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: DS	PROJECT NO. 15029

DRAWING NO.

M-304

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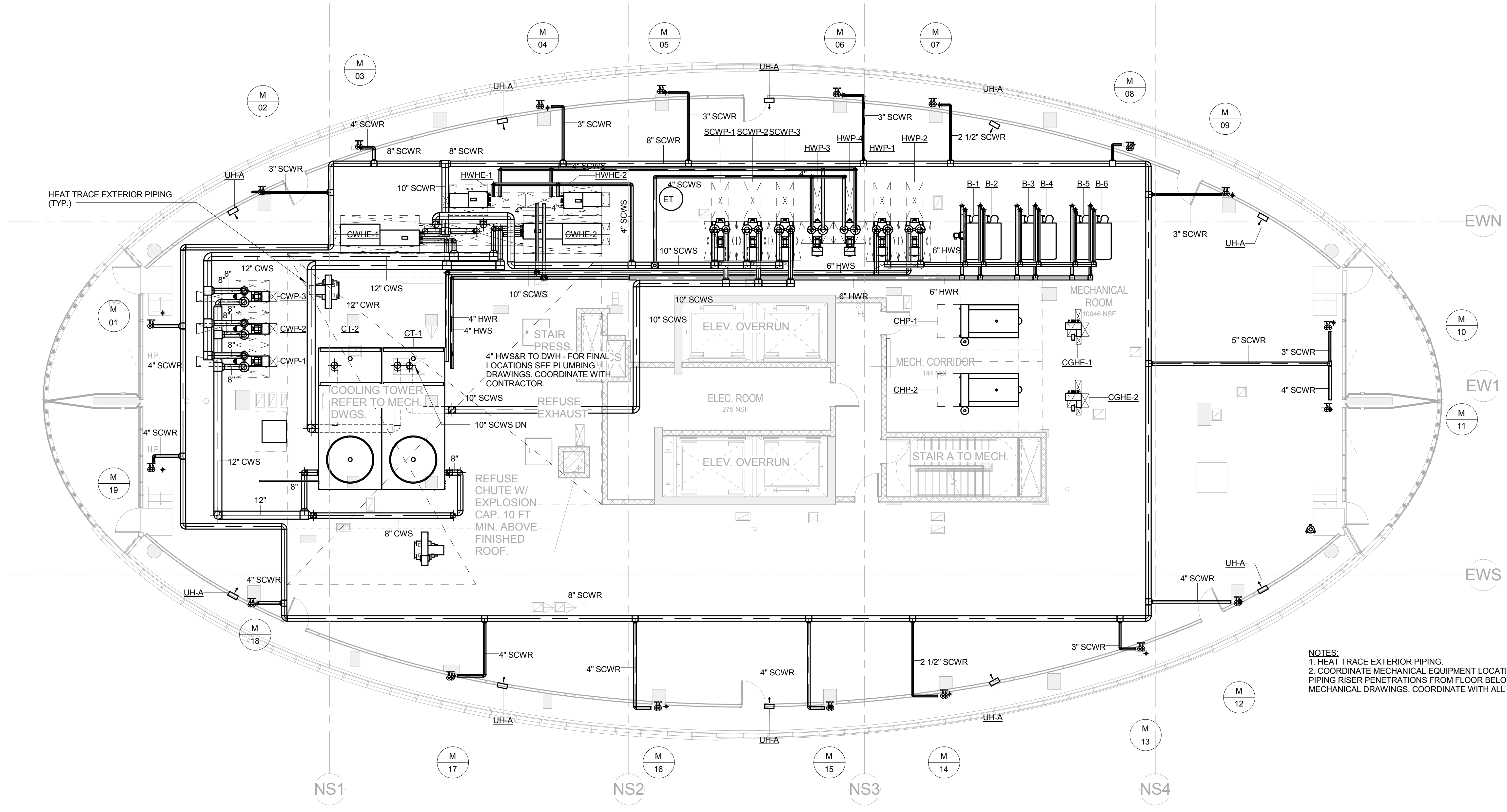
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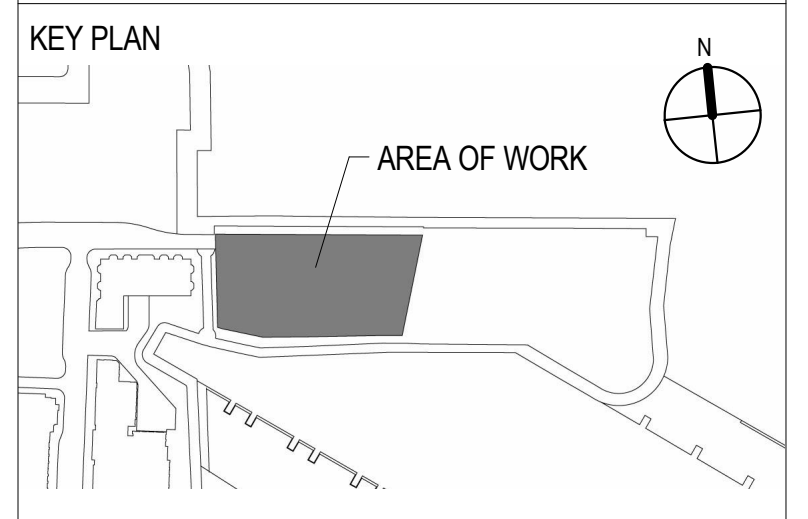
NOTES:
1. HEAT TRACE EXTERIOR PIPING.
2. COORDINATE MECHANICAL EQUIPMENT LOCATIONS WITH ALL PLUMBING PIPING RISER PENETRATIONS FROM FLOOR BELOW NOT INDICATED AT MECHANICAL DRAWINGS. COORDINATE WITH ALL TRADES.

1 TOWER 42ND ROOF MECHANICAL PIPING PLAN
1/8" = 1'-0"



ELLIPSE
25 Park Lane South
Jersey City, NJ 07310

NO.	DATE	ISSUE OR REVISION
02/05/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



- CLIENT**
ELLIPSE BUILDING LLC
111 TOWN SQUARE PLACE, 15TH FLOOR
JERSEY CITY, NJ 07310
- ARCHITECT OF RECORD**
HLW INTERNATIONAL
122 MAIN STREET
MADISON, NJ 07940
- DESIGN ARCHITECT**
ARQUITECTONICA
100 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10011
- FAÇADE CONSULTANT**
FRANK SETA ASSOCIATES LLC
38 WEST 35TH STREET
NEW YORK, NY 10001
- STRUCTURAL ENGINEER**
MCNAMARA SALVIA
62 WEST 45TH STREET, 11TH FLOOR
NEW YORK, NY 10036
- PRECAST ENGINEER**
CIVILSMITH ENGINEERING, INC.
2160 SANDY DR., SUITE C
STATE COLLEGE, PA 16803
- CIVIL ENGINEER**
DRESDNER ROBIN
1 EVERREST PLAZA, SUITE 901
JERSEY CITY, NJ 07302
- MEP ENGINEER**
ICOR CONSULTING ENGINEERS
485C ROUTE 1 SOUTH, SUITE 200
ISELIN, NJ 08830
- VERTICAL TRANSPORTATION**
CBA ELEVATOR CONSULTANTS
190 MAIN STREET, SUITE 402
HACKENSACK, NJ 07601
- POOL DESIGN**
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

Engineer of Record

ICOR
Consulting Engineers
485C Route 1 South, Suite 200
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o: 908-272-3300
f: 908-272-4440
website: www.icorassociates.com
JOHN J. OSKWA/REC, PROFESSIONAL ENGINEER
NJ License No: 24GE00413400
NJ Certificate of Authorization No: 24GA28188000

Drawing Title

ROOF MECHANICAL PIPING PLAN

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: Author	PROJECT NO. 15029

DRAWING NO.

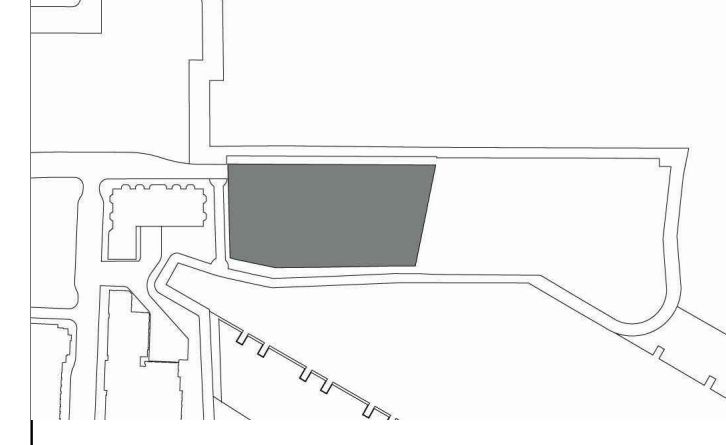
M-306

F E D C B A

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NO.	DATE	ISSUE OR REVISION
10/16/15		ISSUED FOR FILING
11/20/15		ISSUED FOR BID
02/05/16		ISSUED FOR CONSTRUCTION
03/11/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION

KEY PLAN



CLIENT
ELLIPSE BUILDING LLC
111 TOWN SQUARE PLACE, 15TH FLOOR
JERSEY CITY, NJ 07310

ARCHITECT OF RECORD
HLW INTERNATIONAL
122 MAIN STREET
MADISON, NJ 07940

DESIGN ARCHITECT
ARQUITECTONICA
100 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10011

FACADE CONSULTANT
FRANK SETA ASSOCIATES LLC
33 WEST 30TH STREET
NEW YORK, NY 10001

STRUCTURAL ENGINEER
MCNAMARA SALVIA
62 WEST 45TH STREET, 11TH FLOOR
NEW YORK, NY 10036

PRECAST ENGINEER
CIVILSMITH ENGINEERING, INC.
2100 SANDY DR., SUITE C
STATE COLLEGE, PA 16803

CIVIL ENGINEER
DRESDNER ROBIN
1 EVERHURST PLAZA, SUITE 901
JERSEY CITY, NJ 07310

MEP ENGINEER
ICOR CONSULTING ENGINEERS
485C ROUTE 1 SOUTH, SUITE 200
ISELIN, NJ 08830

VERTICAL TRANSPORTATION
CBA ELEVATOR CONSULTANTS
190 MAIN STREET, SUITE 402
HACKENSACK, NJ 07601

POOL DESIGN
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

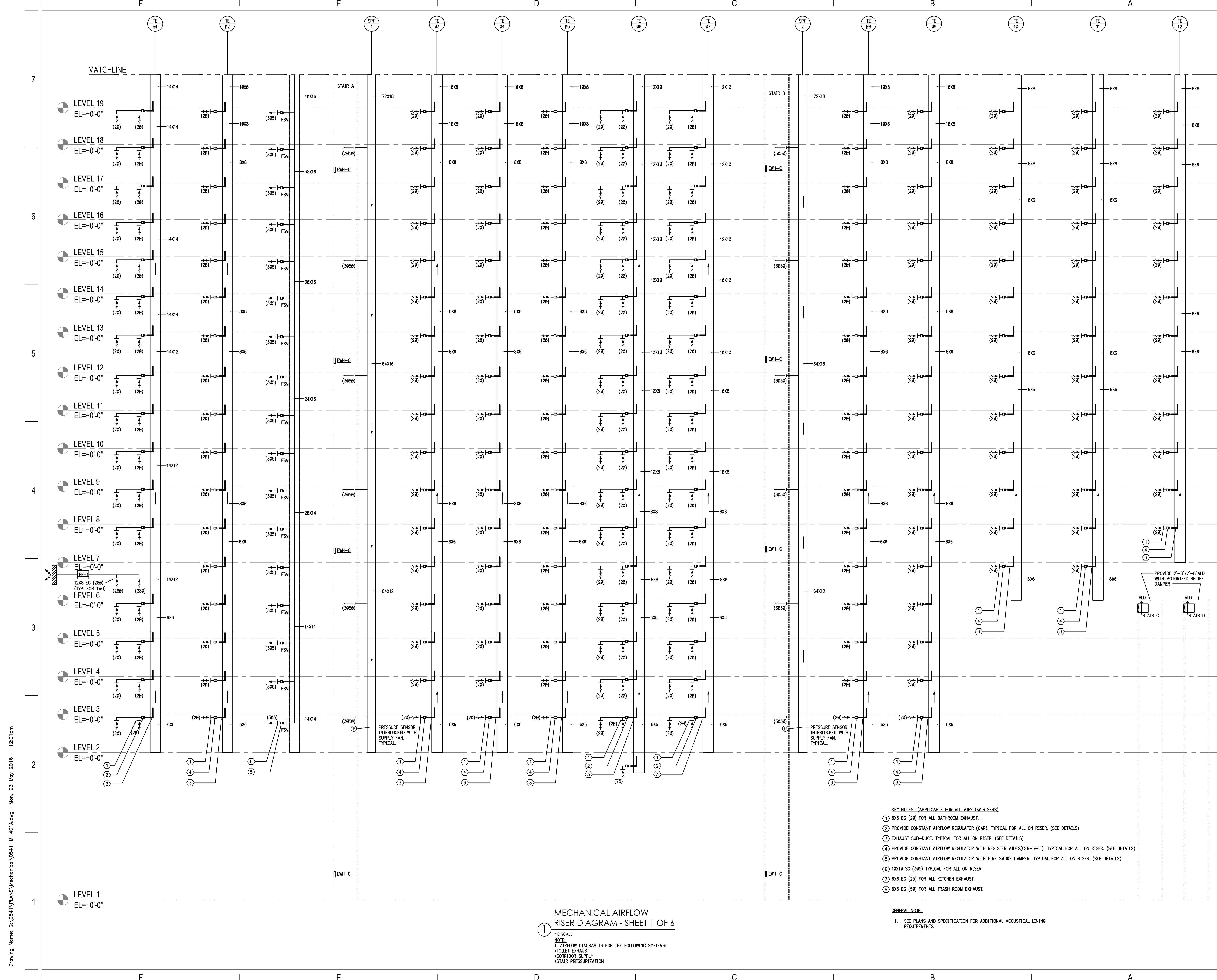
Engineer of Record
ICOR
Consulting Engineers
485C Route 1 South, Suite 200
Iselin, NJ 08830
o: 908-272-3300
f: 908-272-4440
website: www.icorassociates.com
JOHN L. OSKWAREK, PROFESSIONAL ENGINEER
NJ License No: 24GE0413400
NJ Certificate of Authorization No: 24GA28188000

Drawing Title
MECHANICAL AIR RISER DIAGRAM
SHEET 1 OF 6

SCALE: NO SCALE DATE: 05/20/2016
CHECKED BY: DS PROJECT NO. 15029

DRAWING NO.

M-401A



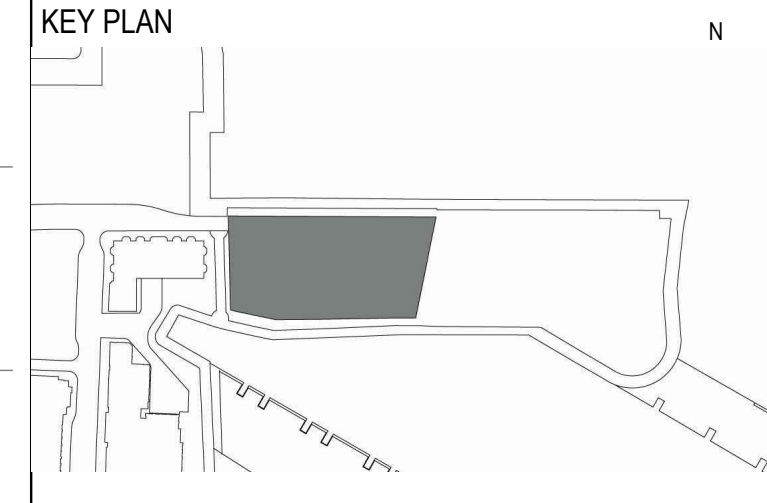
- KEY NOTES: (APPLICABLE FOR ALL AIRFLOW RISERS)**
- 6x6 EG (28) FOR ALL BATHROOM EXHAUST.
 - PROVIDE CONSTANT AIRFLOW REGULATOR (CAR), TYPICAL FOR ALL ON RISER. (SEE DETAILS)
 - EXHAUST SUB-DUCT, TYPICAL FOR ALL ON RISER. (SEE DETAILS)
 - PROVIDE CONSTANT AIRFLOW REGULATOR WITH REGISTER AIDS(CER-S-II), TYPICAL FOR ALL ON RISER. (SEE DETAILS)
 - PROVIDE CONSTANT AIRFLOW REGULATOR WITH FIRE SMOKE DAMPER, TYPICAL FOR ALL ON RISER. (SEE DETAILS)
 - 10X10 SG (385) TYPICAL FOR ALL ON RISER
 - 6x6 EG (25) FOR ALL KITCHEN EXHAUST.
 - 6x6 EG (58) FOR ALL TRASH ROOM EXHAUST.

GENERAL NOTE:
1. SEE PLANS AND SPECIFICATION FOR ADDITIONAL ACOUSTICAL LINING REQUIREMENTS.

MECHANICAL AIRFLOW RISER DIAGRAM - SHEET 1 OF 6

NO SCALE
NOTE:
1. AIRFLOW DIAGRAM IS FOR THE FOLLOWING SYSTEMS:
• TOILET EXHAUST
• CORRIDOR SUPPLY
• STAIR PRESSURIZATION

NO.	DATE	ISSUE OR REVISION
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02/05/16		ISSUED FOR CONSTRUCTION
03/11/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



- CLIENT**
ELLIPSE BUILDING LLC
111 TOWN SQUARE PLACE, 15TH FLOOR
JERSEY CITY, NJ 07310
- ARCHITECT OF RECORD**
HLW INTERNATIONAL
122 MAIN STREET
MADISON, NJ 07940
- DESIGN ARCHITECT**
ARQUITECTONICA
100 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10011
- FACADE CONSULTANT**
FRANK SETA ASSOCIATES LLC
33 WEST 30TH STREET
NEW YORK, NY 10001
- STRUCTURAL ENGINEER**
MCNAMARA SALVIA
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NEW YORK, NY 10036
- PRECAST ENGINEER**
CIVILSMITH ENGINEERING, INC.
2100 SANDY DR., SUITE C
STATE COLLEGE, PA 16803
- CIVIL ENGINEER**
DRESDNER ROBIN
1 EVERTRUST PLAZA, SUITE 901
JERSEY CITY, NJ 07302
- MEP ENGINEER**
ICOR CONSULTING ENGINEERS
485C ROUTE 1 SOUTH, SUITE 200
ISELIN, NJ 08830
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CBA ELEVATOR CONSULTANTS
190 MAIN STREET, SUITE 402
HACKENSACK, NJ 07601
- POOL DESIGN**
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

Engineer of Record

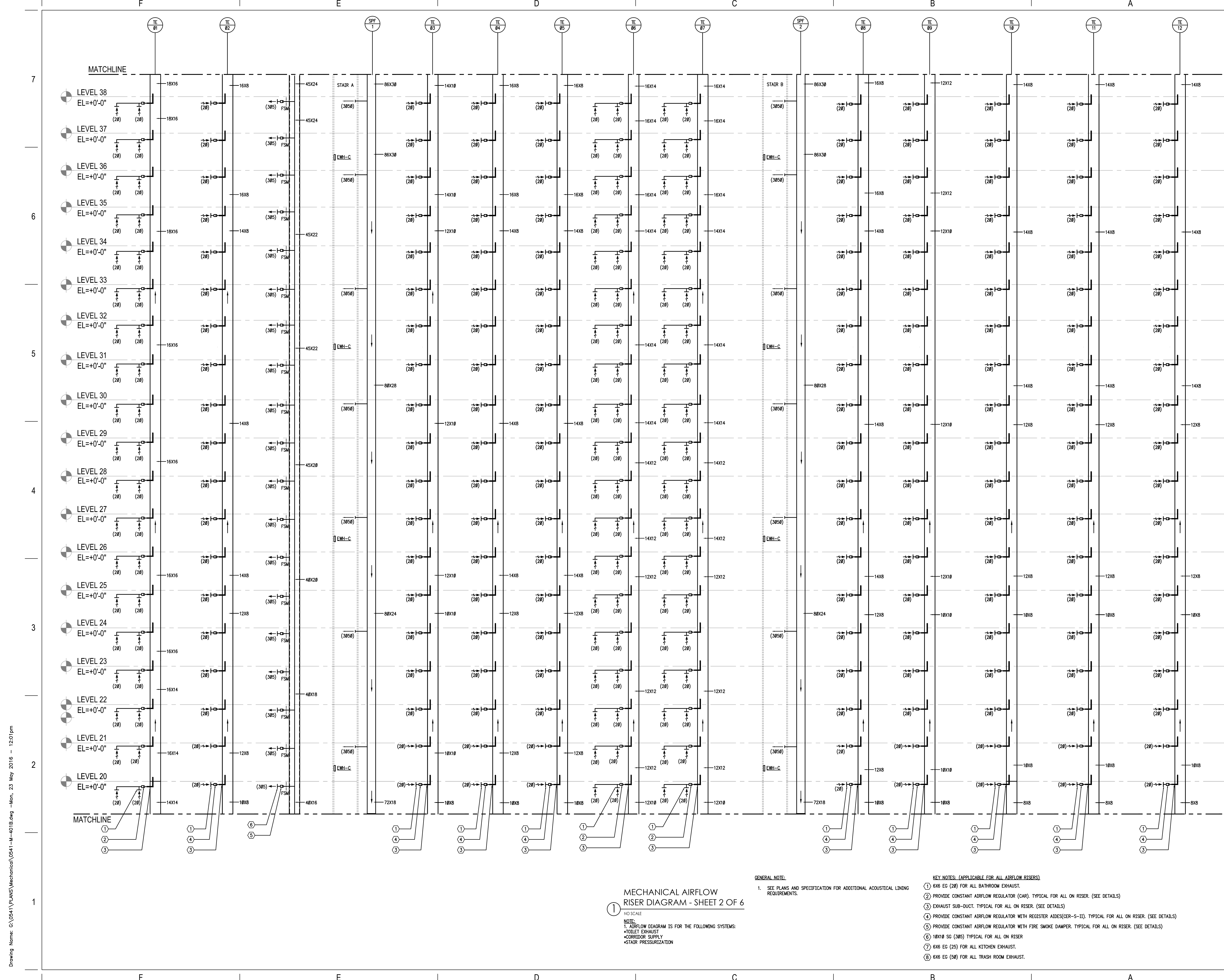
ICOR
Consulting Engineers
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Iselin, NJ 08830
o: 908-272-3300
f: 908-272-4440
website: www.icorassociates.com
JOHN L. OSKWAREK, PROFESSIONAL ENGINEER
NJ License No: 24GE0413400
NJ Certificate of Authorization No: 24GA28188000

Drawing Title

MECHANICAL AIR RISER DIAGRAM SHEET 2 OF 6

SCALE:	NO SCALE	DATE:	05/20/2016
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DRAWING NO.:			

M-401B



MECHANICAL AIRFLOW RISER DIAGRAM - SHEET 2 OF 6

NO SCALE

NOTE:
1. AIRFLOW DIAGRAM IS FOR THE FOLLOWING SYSTEMS:
• TOILET EXHAUST
• CORRIDOR SUPPLY
• STAIR PRESSURIZATION

- GENERAL NOTE:**
1. SEE PLANS AND SPECIFICATION FOR ADDITIONAL ACOUSTICAL LINING REQUIREMENTS.
- KEY NOTES: (APPLICABLE FOR ALL AIRFLOW RISERS)**
- 6X6 EG (20) FOR ALL BATHROOM EXHAUST.
 - PROVIDE CONSTANT AIRFLOW REGULATOR (CAR), TYPICAL FOR ALL ON RISER. (SEE DETAILS)
 - EXHAUST SUB-DUCT, TYPICAL FOR ALL ON RISER. (SEE DETAILS)
 - PROVIDE CONSTANT AIRFLOW REGULATOR WITH REGISTER AIDS(CER-S-II), TYPICAL FOR ALL ON RISER. (SEE DETAILS)
 - PROVIDE CONSTANT AIRFLOW REGULATOR WITH FIRE SMOKE DAMPER, TYPICAL FOR ALL ON RISER. (SEE DETAILS)
 - 18X10 SG (385) TYPICAL FOR ALL ON RISER.
 - 6X6 EG (25) FOR ALL KITCHEN EXHAUST.
 - 6X6 EG (50) FOR ALL TRASH ROOM EXHAUST.

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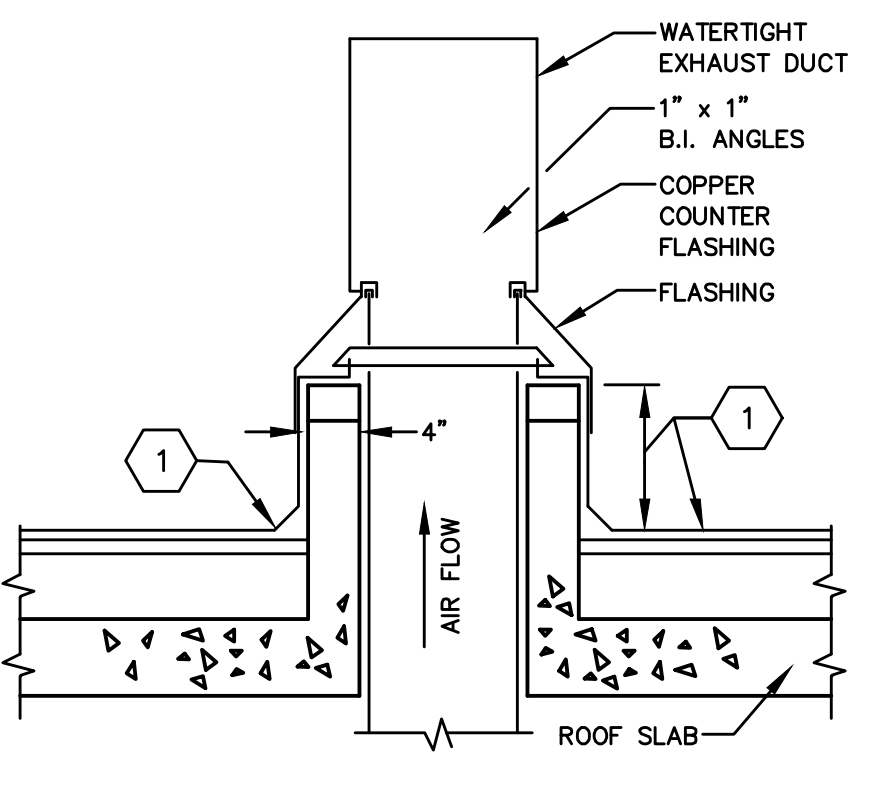
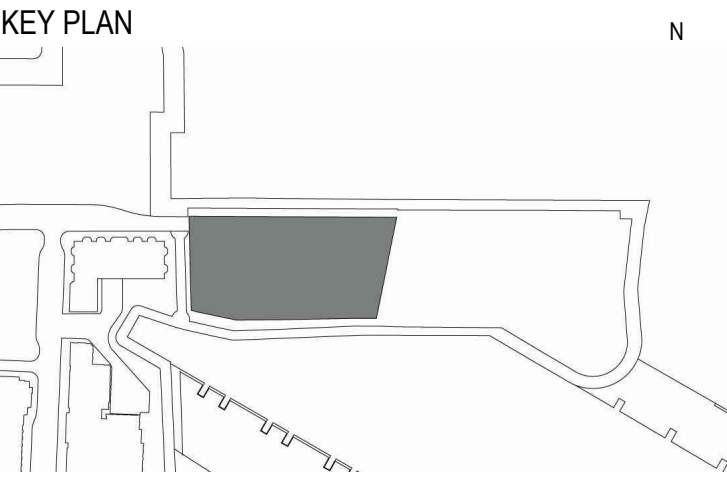
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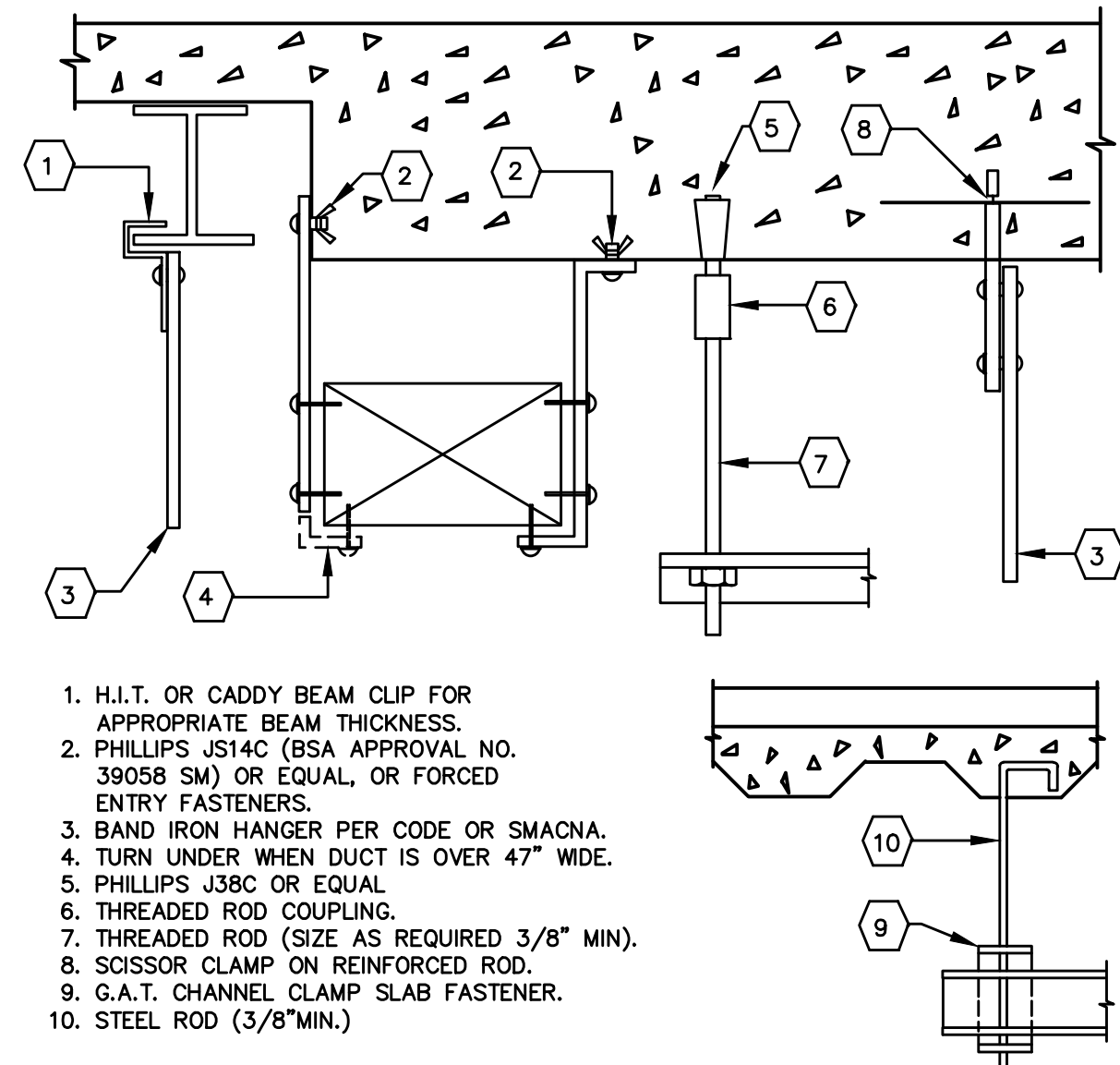


ELLIPSE TOWER
25 Park Lane South
Jersey City, NJ 07310

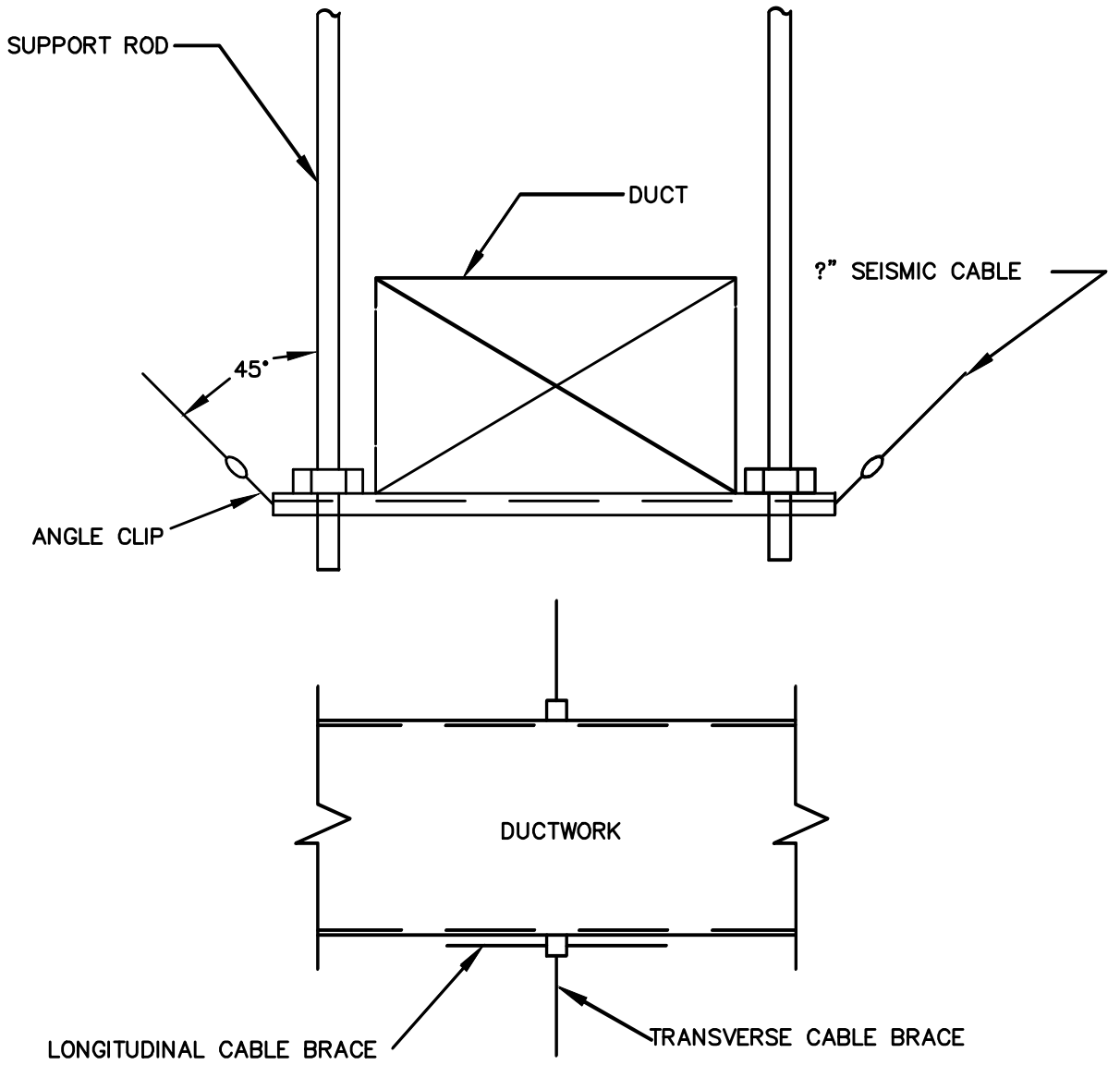
NO.	DATE	ISSUE OR REVISION
10/16/15		ISSUED FOR BIDDING
11/20/15		ISSUED FOR CONSTRUCTION
02/05/16		ISSUED FOR CONSTRUCTION
03/11/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



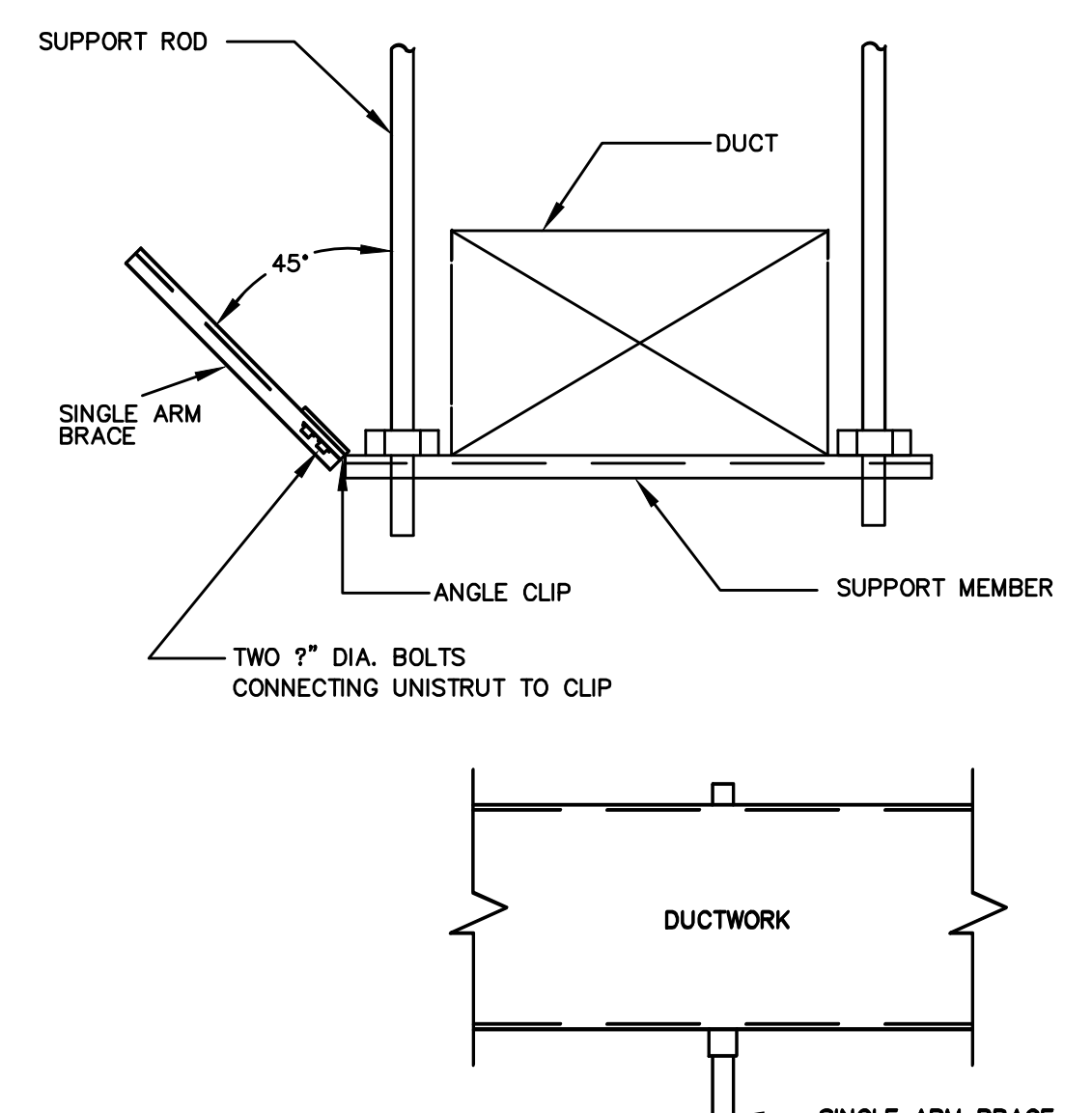
1 SEE ARCHITECTURAL ROOF PLANS AND RELATED ARCHITECTURAL DETAILS FOR INFORMATION REGARDING ALL ROOF PENETRATIONS, SUPPORT AND ETC.
DUCT PENETRATION THRU ROOF
NOT TO SCALE



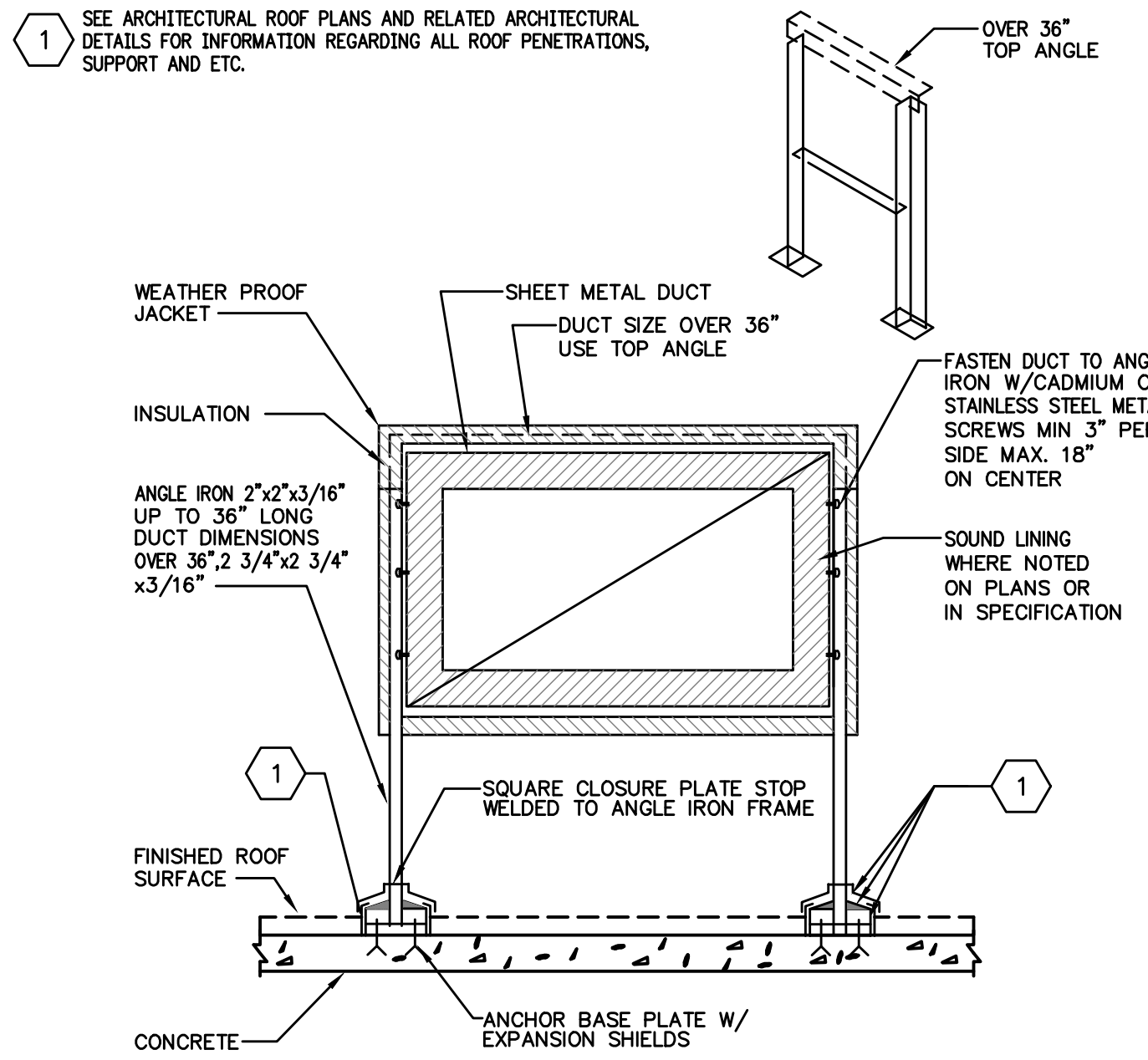
1. H.I.T. OR CADDY BEAM CLIP FOR APPROPRIATE BEAM THICKNESS.
2. PHILLIPS #5X4 (OR APPROVAL NO. 39058 SM) OR EQUAL, OR FORCED ENTRY FASTENERS.
3. BAND IRON HANGER PER CODE OR SMACNA, TURN UNDER WHEN DUCT IS OVER 47" WIDE.
4. PHILLIPS #3X3 OR EQUAL.
5. THREADED ROD COUPLING.
6. THREADED ROD (SIZE AS REQUIRED 3/8" MIN.).
7. SCISSOR CLAMP ON REINFORCED ROD.
8. G.A.T. CHANNEL CLAMP SLAB FASTENER.
9. STEEL ROD (3/8" MIN.).
METHOD OF HANGING DUCTWORK
NOT TO SCALE



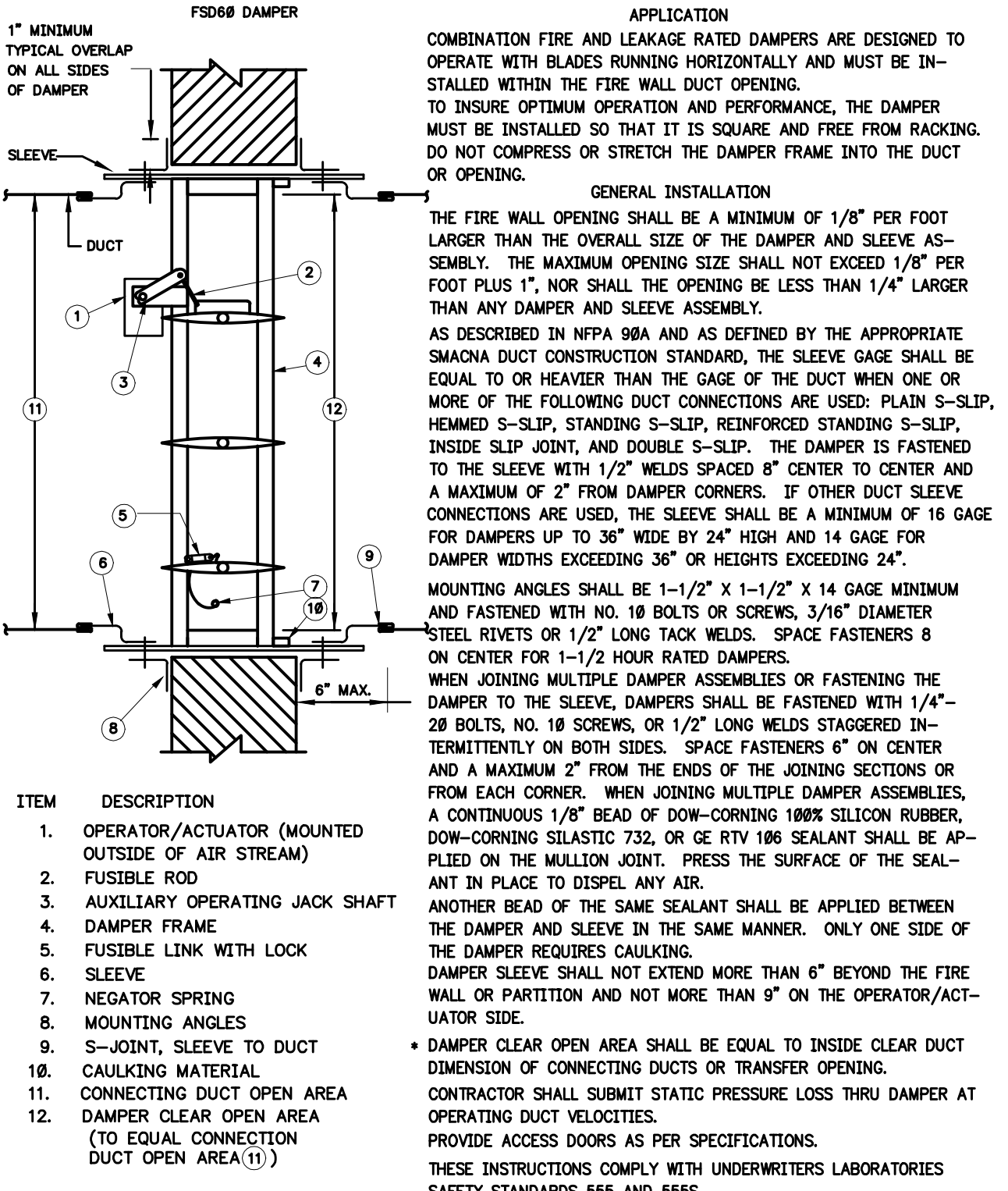
TRANSVERSE AND LONGITUDINAL CABLE BRACE FOR DUCT
NOT TO SCALE



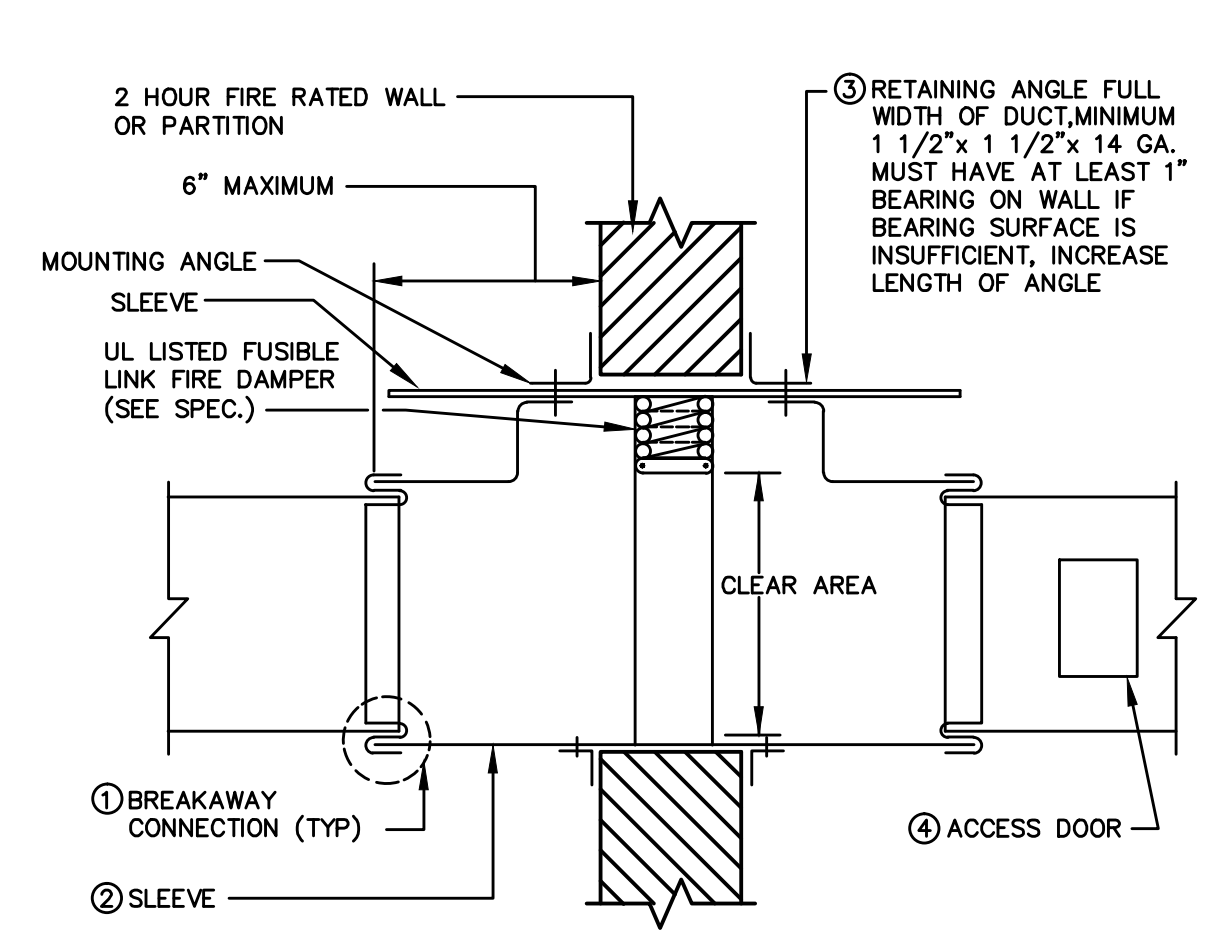
SINGLE ARM BRACE FOR DUCT
NOT TO SCALE



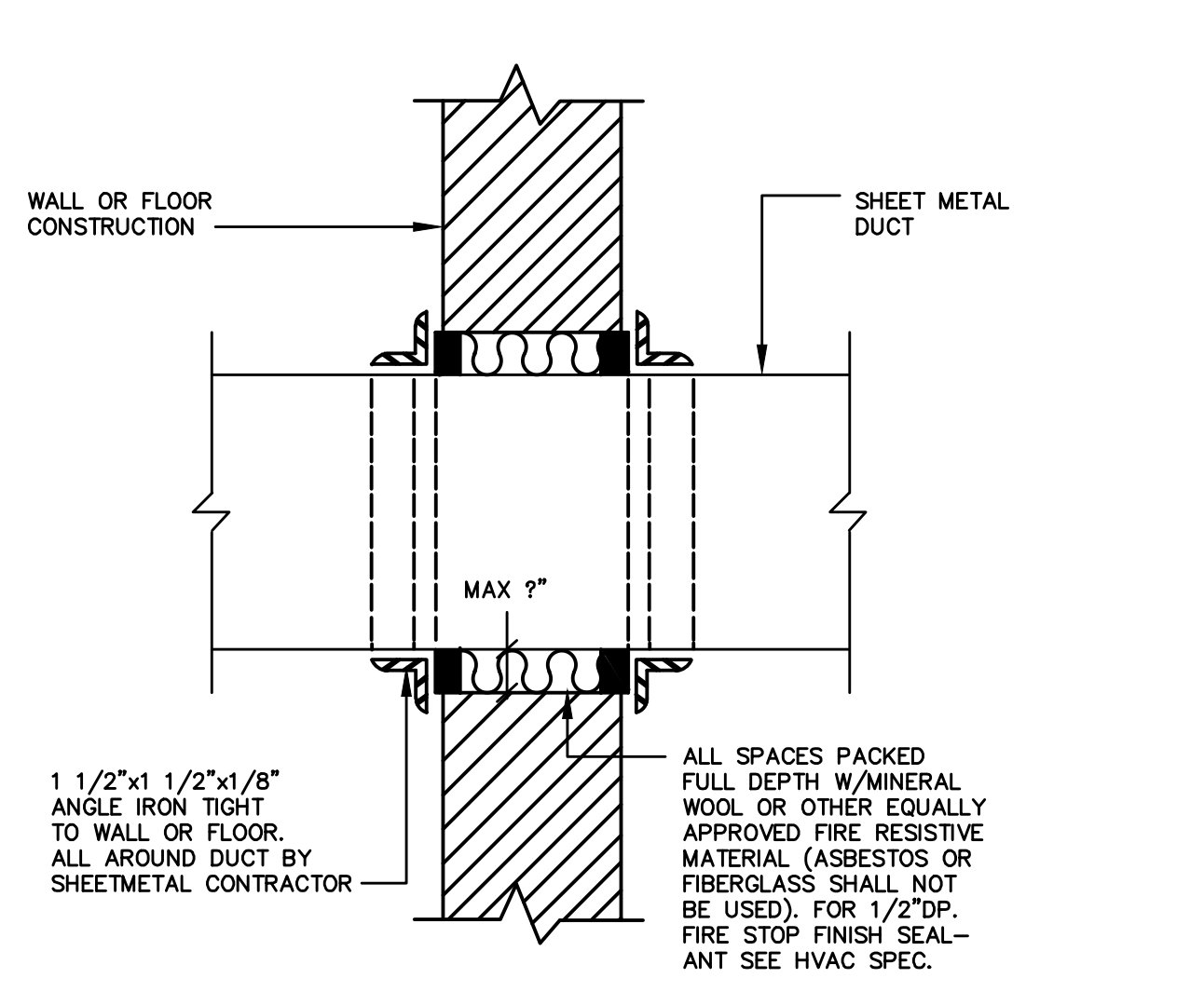
1 SEE ARCHITECTURAL ROOF PLANS AND RELATED ARCHITECTURAL DETAILS FOR INFORMATION REGARDING ALL ROOF PENETRATIONS, SUPPORT AND ETC.
DETAIL OF SUPPORT AND INSULATION FOR ROOF MOUNTED DUCTWORK
NOT TO SCALE



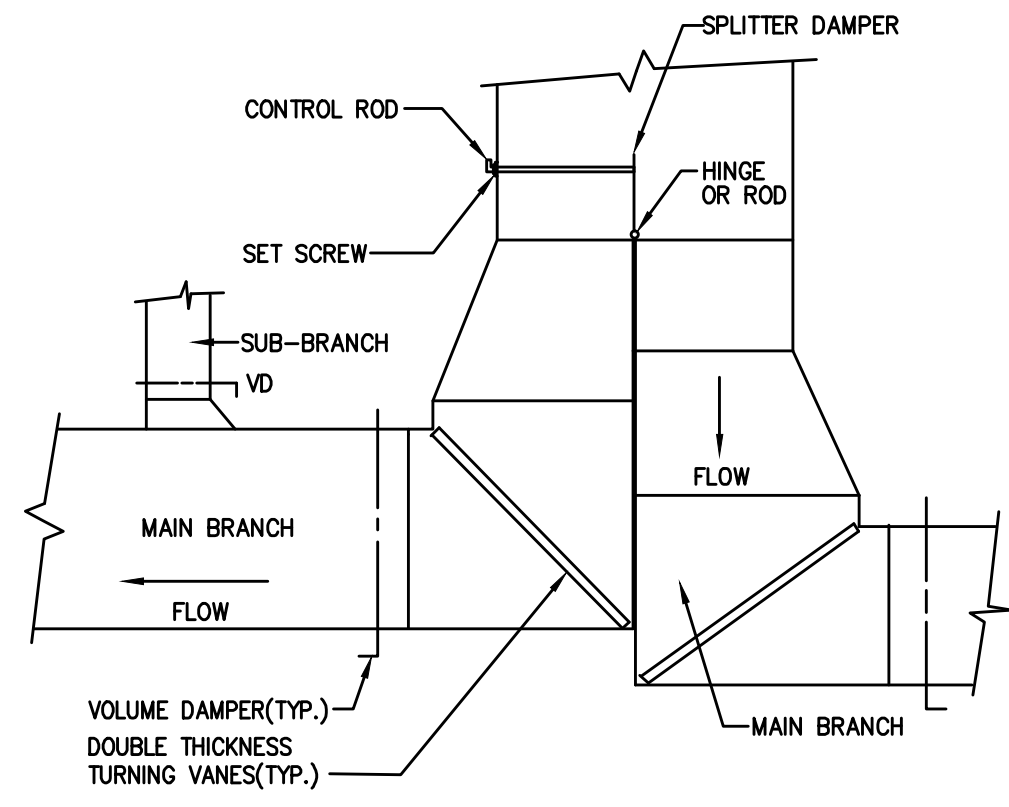
FIRE/SMOKE DAMPER INSTALLATION DETAIL
NOT TO SCALE



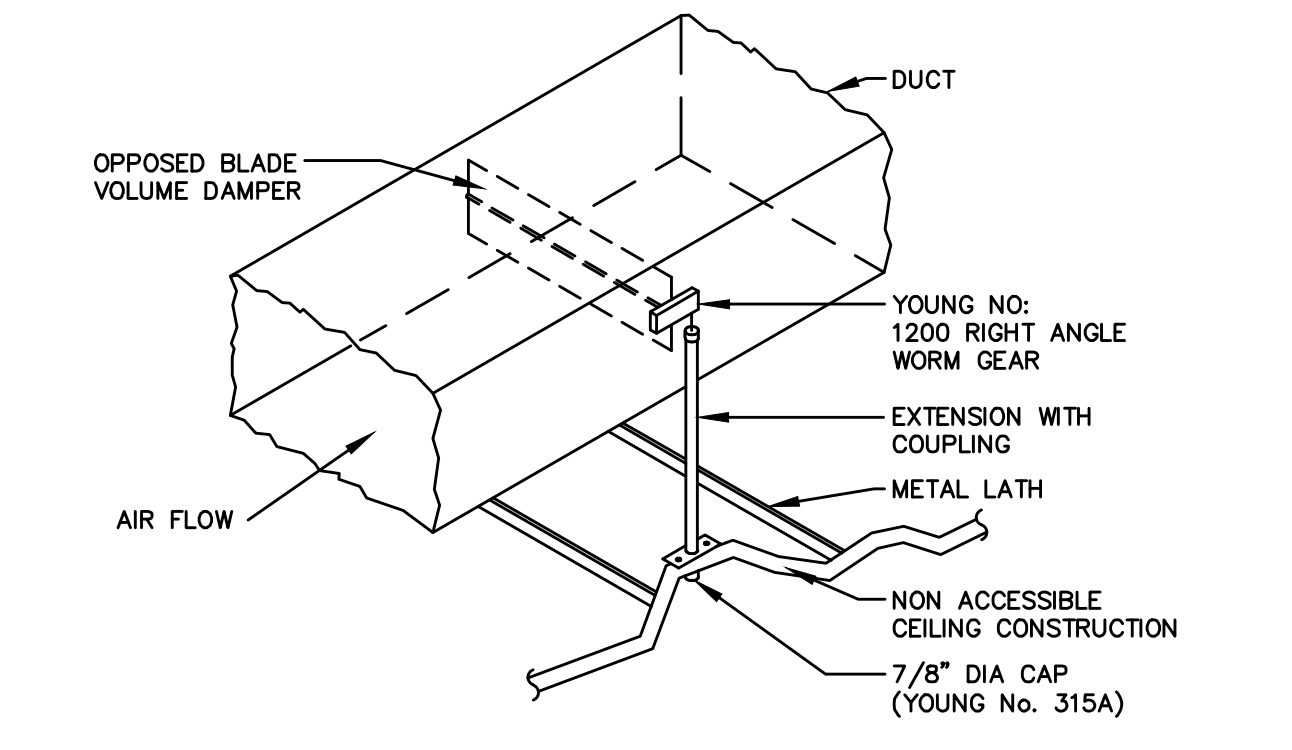
AUTOMATIC FIRE DAMPERS
NOT TO SCALE



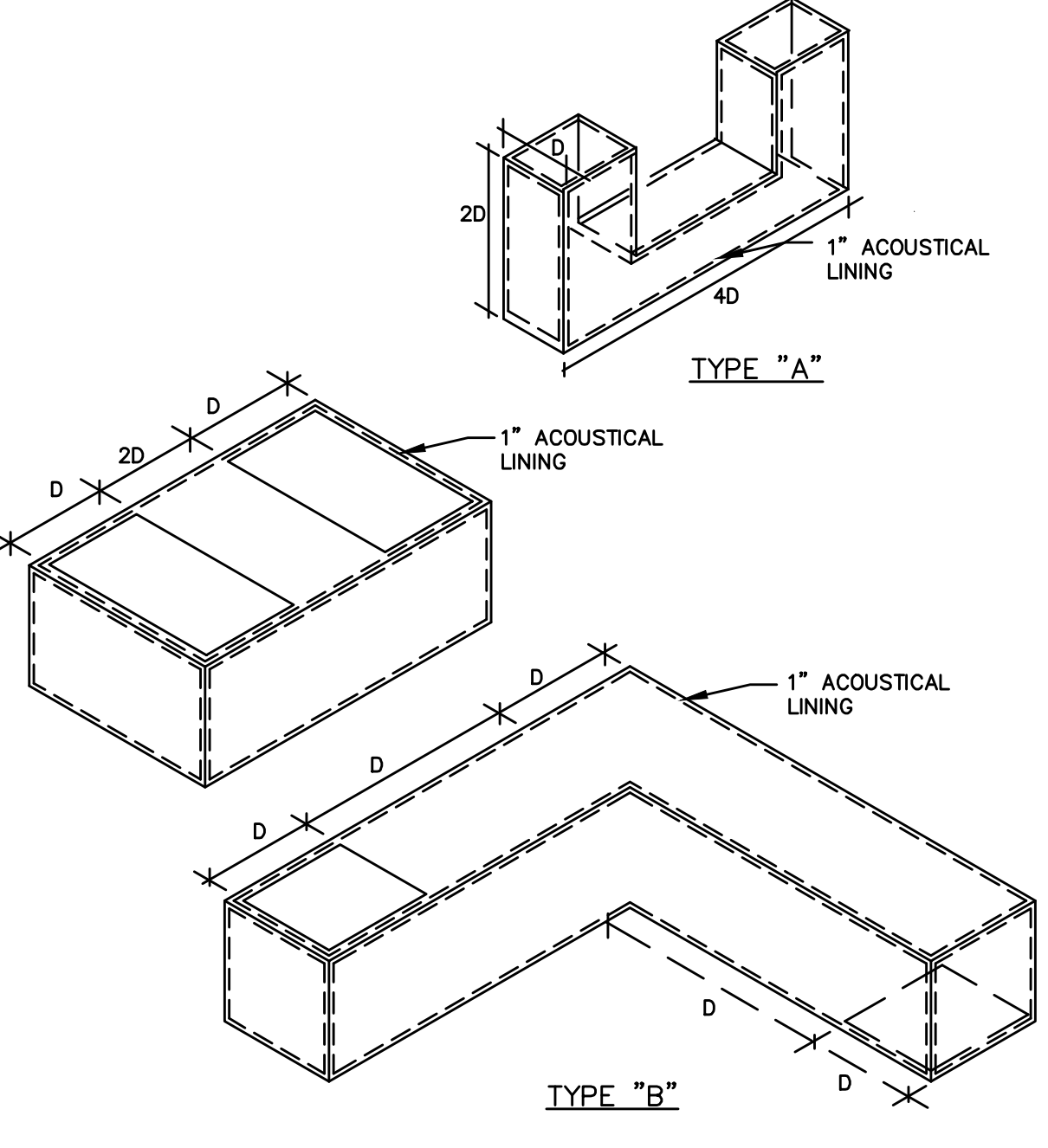
DETAIL OF CAULKING OF DUCT PIERCING WALLS OR FLOORS WHERE FIRE DAMPERS ARE NOT REQUIRED
NOT TO SCALE



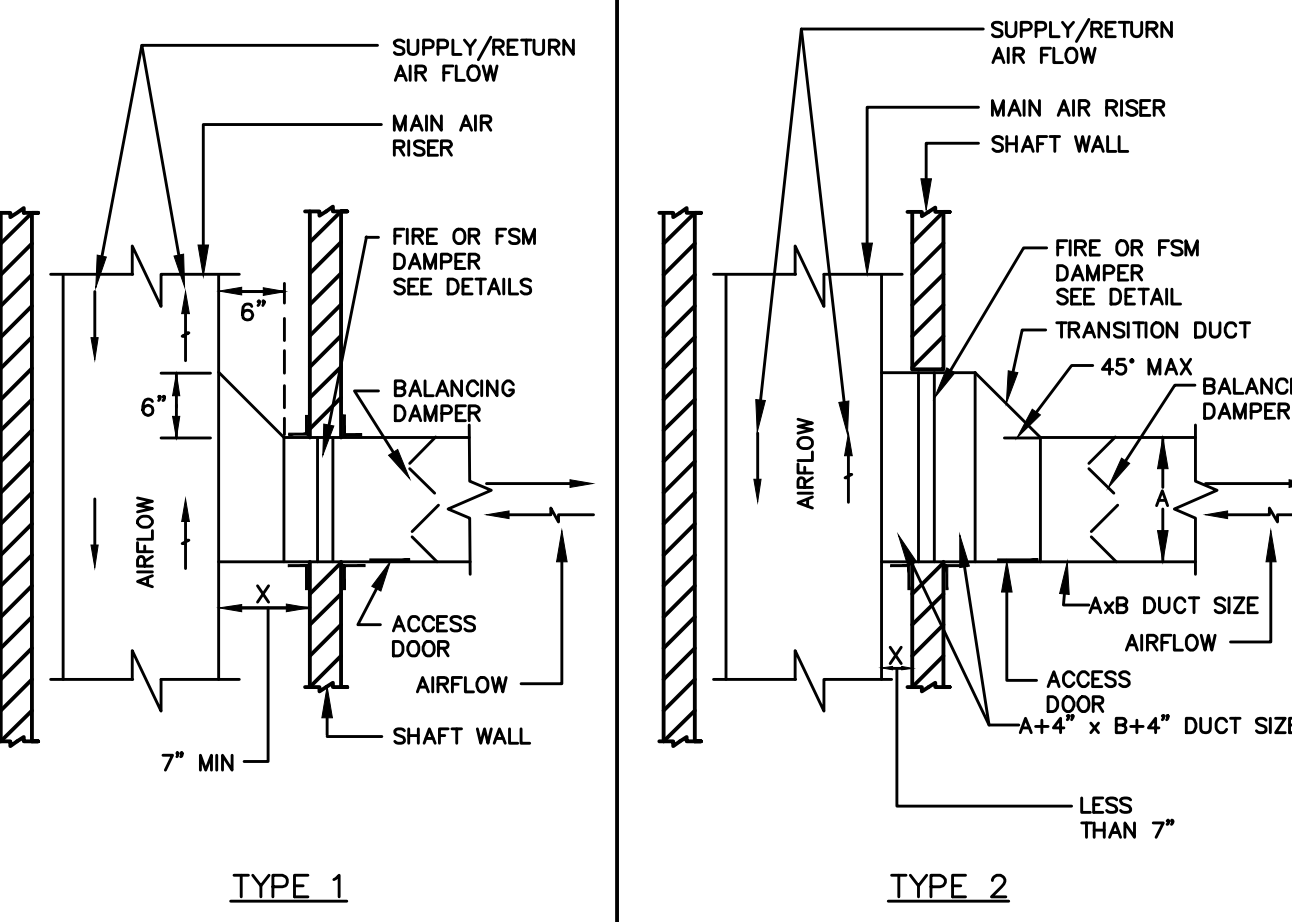
DUCT CONNECTION DETAIL
NOT TO SCALE



VOLUME CONTROL DAMPER
FOR NON ACCESSIBLE CEILINGS ONLY
NOT TO SCALE



TRANSFER (JUMPER) DUCT TYPES
NOT TO SCALE



FLARE TRANSITION FOR CONNECTION OF DUCT BRANCHES TO DUCT RISER THRU RATED WALLS
NOT TO SCALE
(TYPICAL FOR ALL BRANCHES)

CLIENT
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ARCHITECT OF RECORD
HLW INTERNATIONAL
122 MAIN STREET
MADISON, NJ 07940

DESIGN ARCHITECT
ARQUITECTONICA
100 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10011

FAÇADE CONSULTANT
FRANK SETA ASSOCIATES LLC
NEW YORK, NY 10001

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NEW YORK, NY 10036

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JOHN J. OSKWAREK, PROFESSIONAL ENGINEER
NJ License No: 24656413400
NJ Certificate of Authorization No: 24GA28188000

Drawing Title
MECHANICAL DETAILS

SCALE:	NO SCALE	DATE:	05/20/2016
CHECKED BY:	DS	PROJECT NO.:	15029
DRAWING NO.:			

M-601

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D

C

B

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Drawing Name: G:\0541\PLANS\Mechanical\0541-M-601.dwg - Mon, 23 May 2016 12:03pm

F

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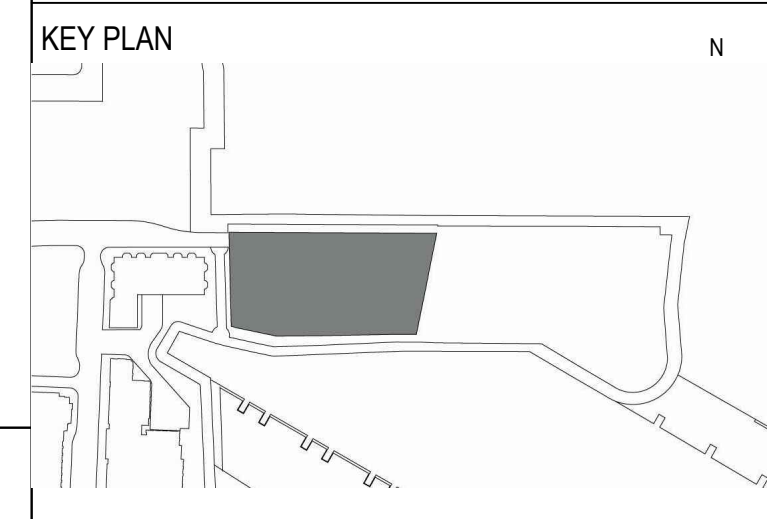
B

A



ELLIPSE TOWER
25 Park Lane South
Jersey City, NJ 07310

NO.	DATE	ISSUE OR REVISION
10/16/15		ISSUED FOR FILING
11/20/15		ISSUED FOR BID
02/05/16		ISSUED FOR CONSTRUCTION
03/11/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



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HACKENSACK, NJ 07601

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TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

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333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

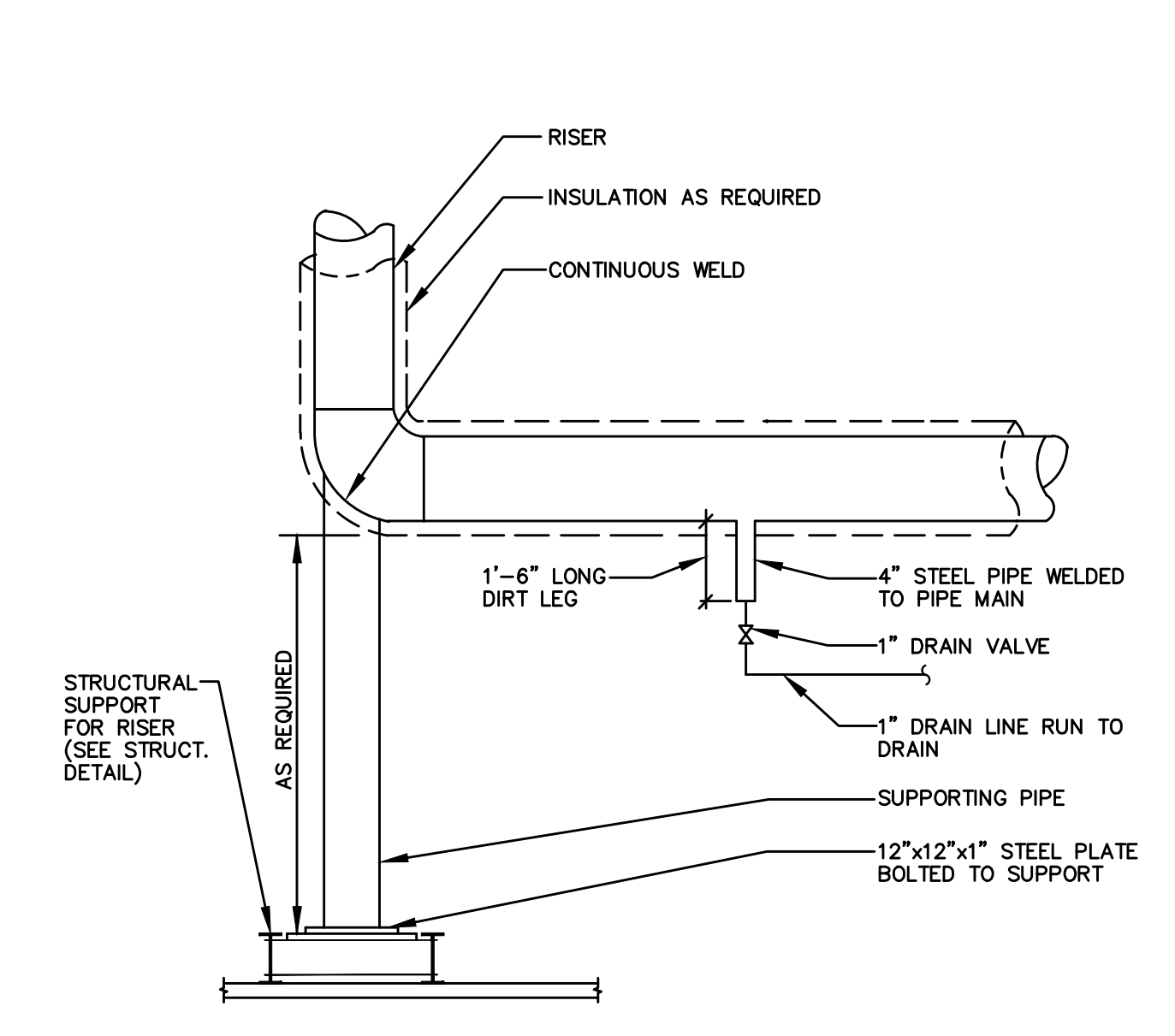
POOL DESIGN
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JOHN L. OSKWAREK, PROFESSIONAL ENGINEER
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NJ Certificate of Authorization No: 24GA28188000

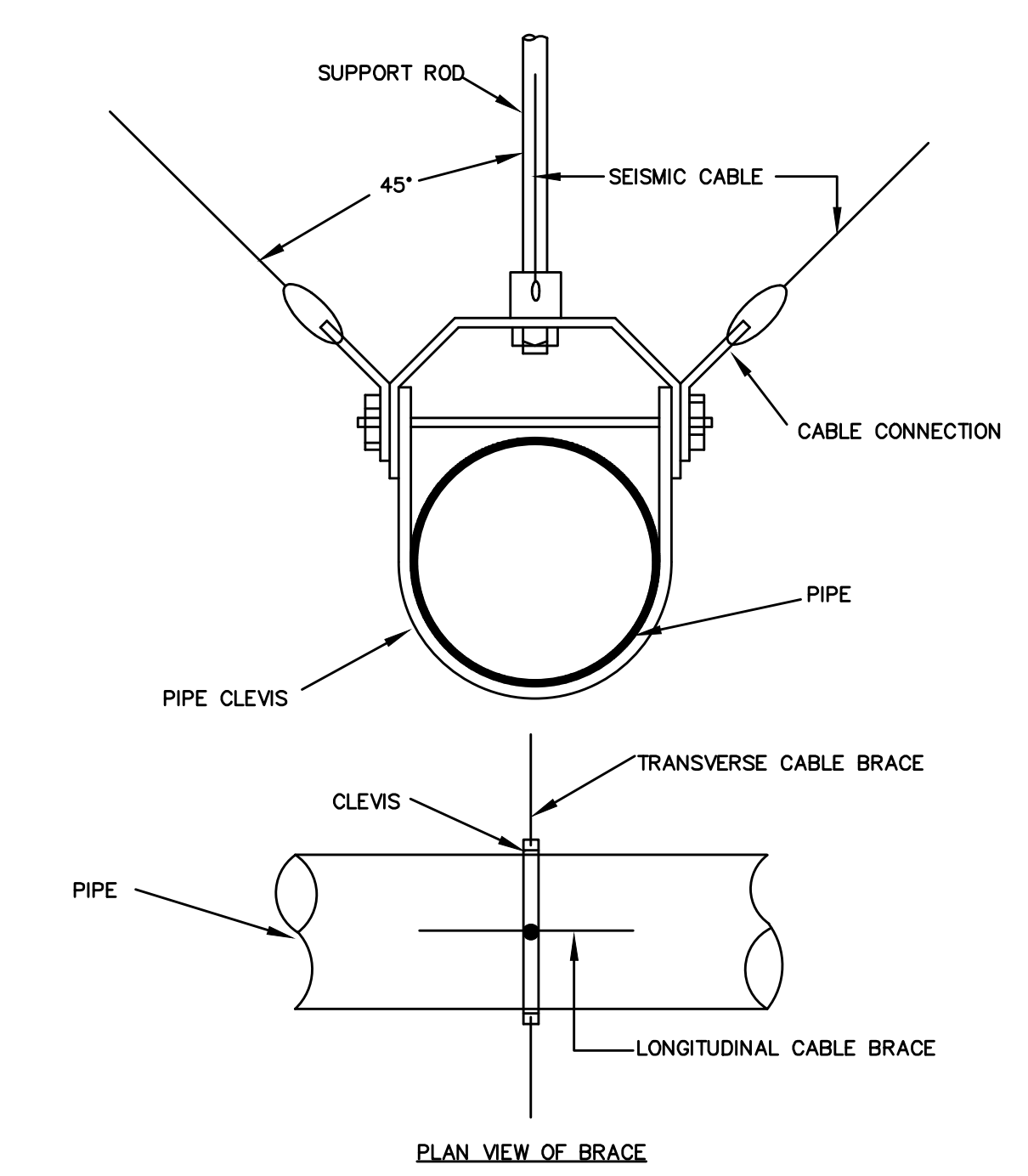
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**MECHANICAL
DETAILS**

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CHECKED BY:	DS	PROJECT NO.:	15029
DRAWING NO.:			

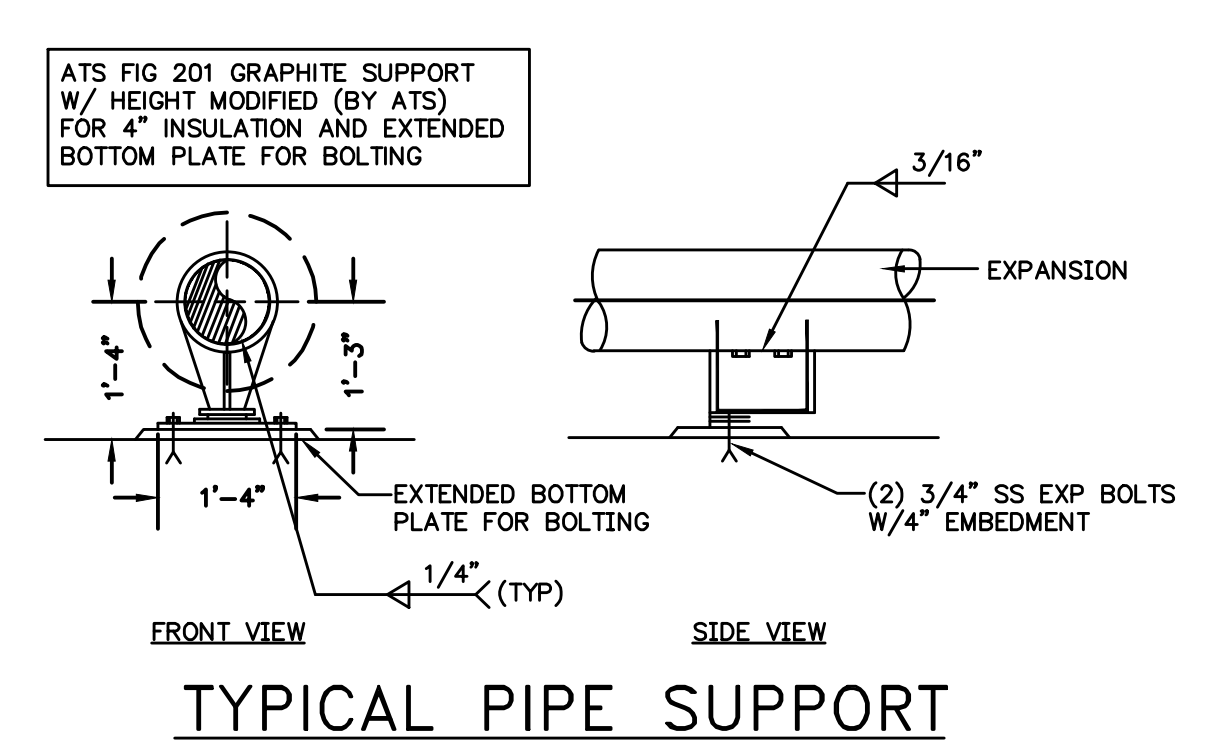
M-602



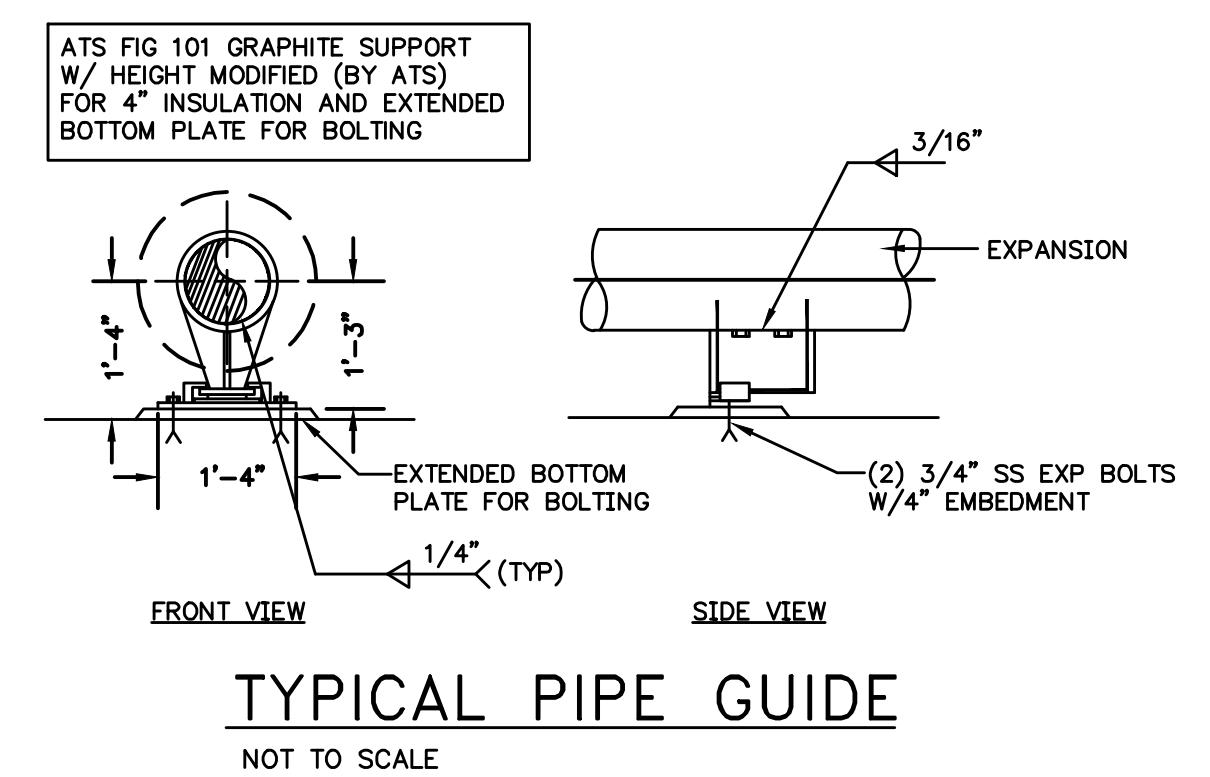
PIPE RISER BASE ELBOW
SUPPORT DETAIL
NOT TO SCALE



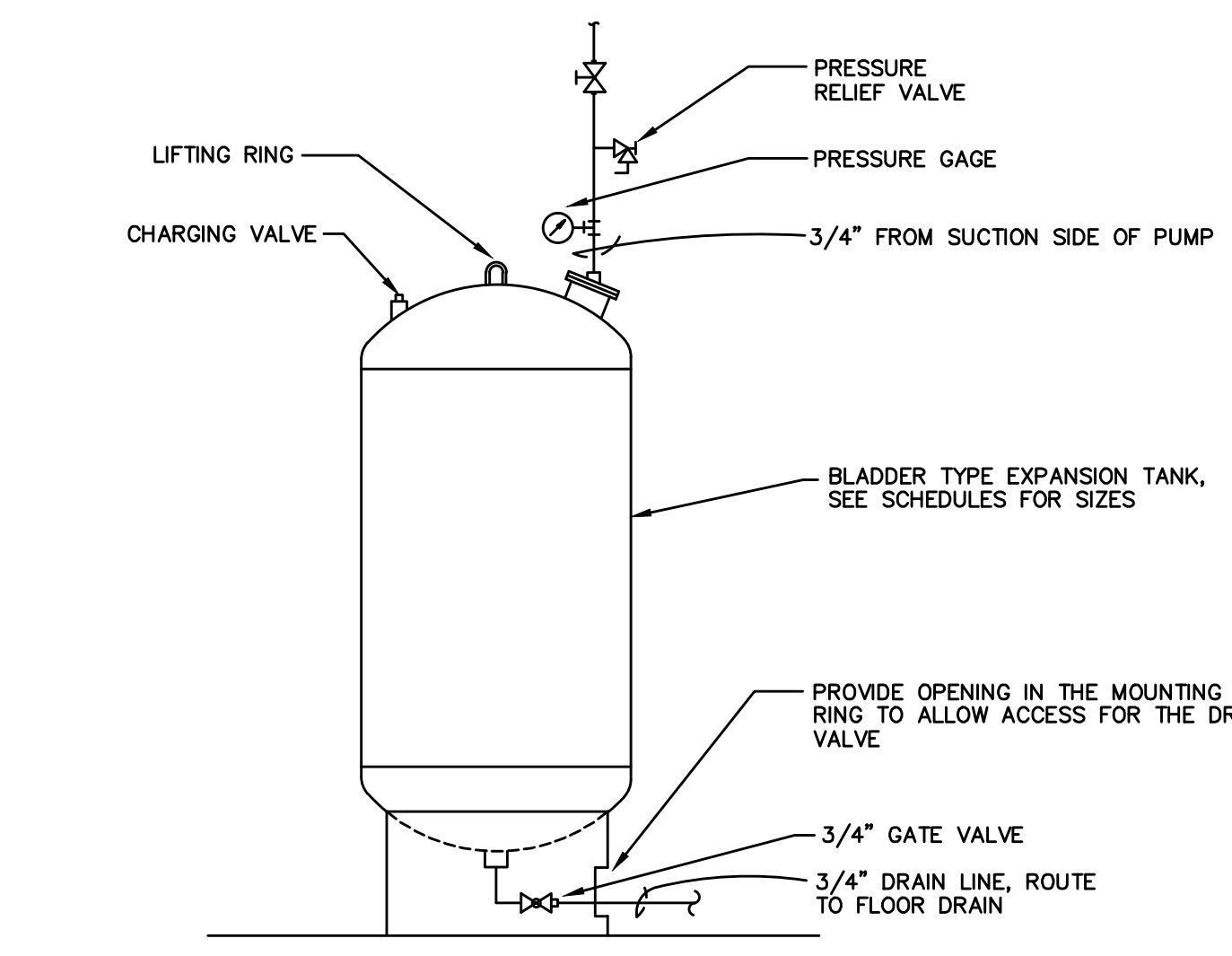
TRANSVERSE AND LONGITUDINAL CABLE
BRACE FOR CLEVIS HUNG PIPING
NOT TO SCALE



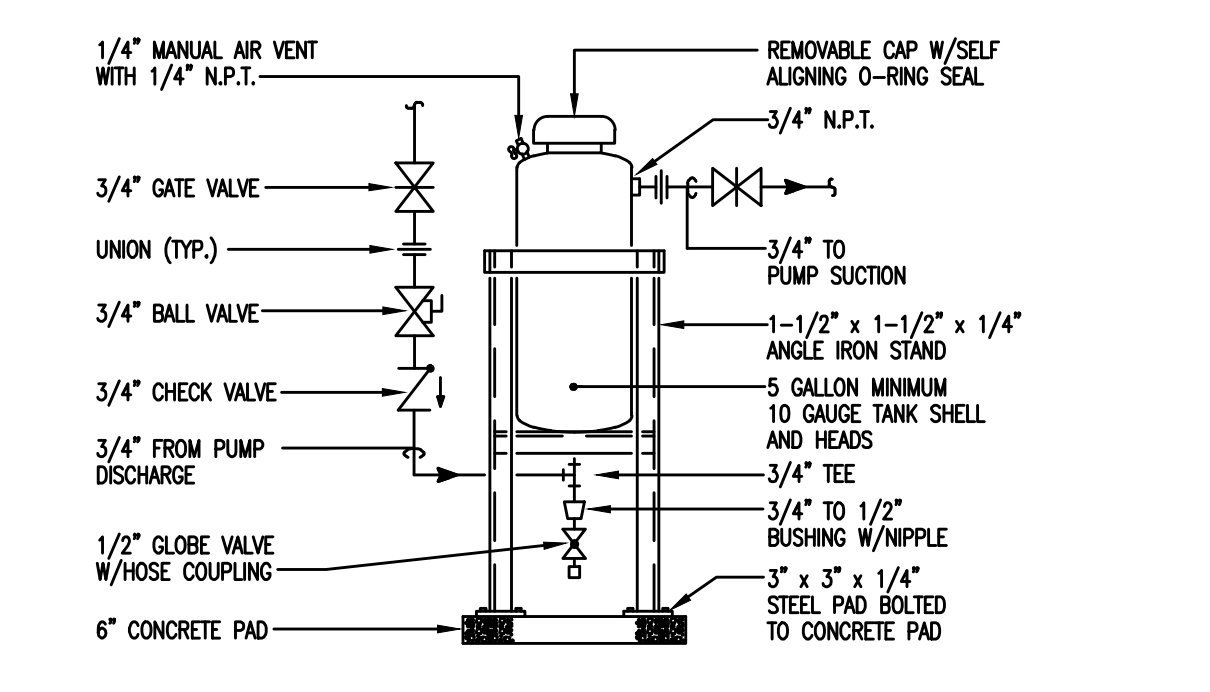
TYPICAL PIPE SUPPORT
NOT TO SCALE



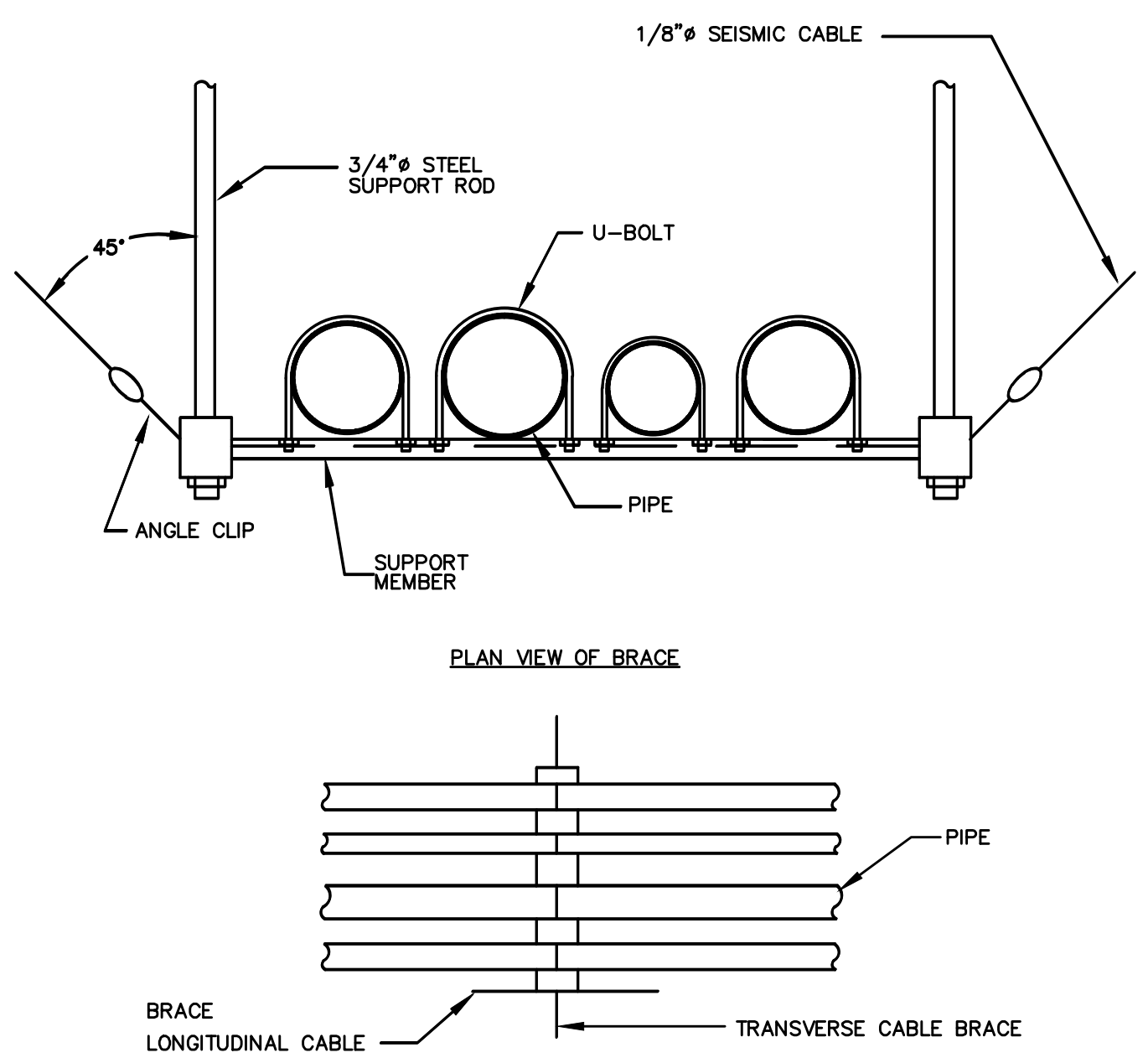
TYPICAL PIPE GUIDE
NOT TO SCALE



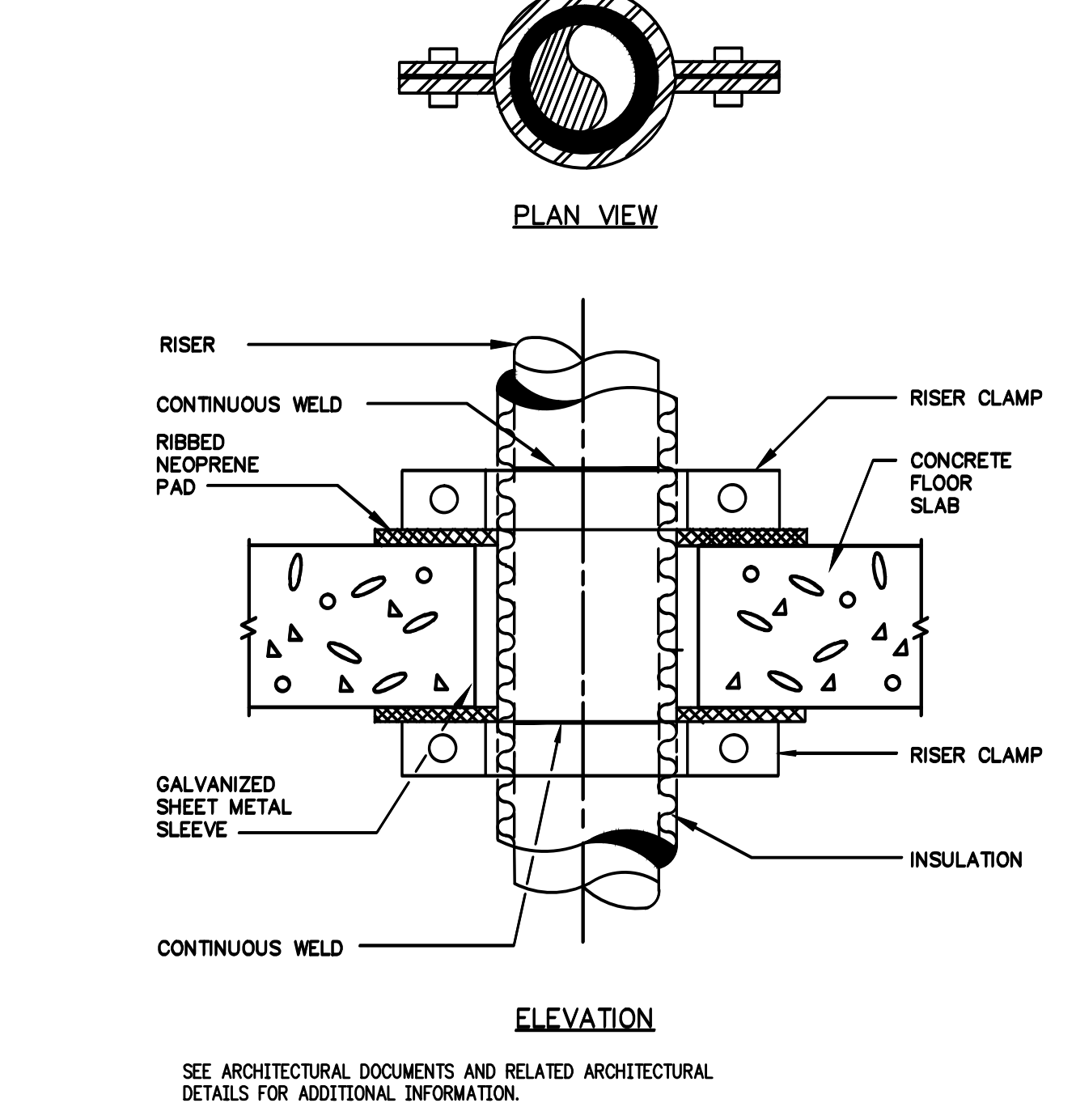
DIAPHRAGM TYPE
EXPANSION TANK DETAIL
NOT TO SCALE



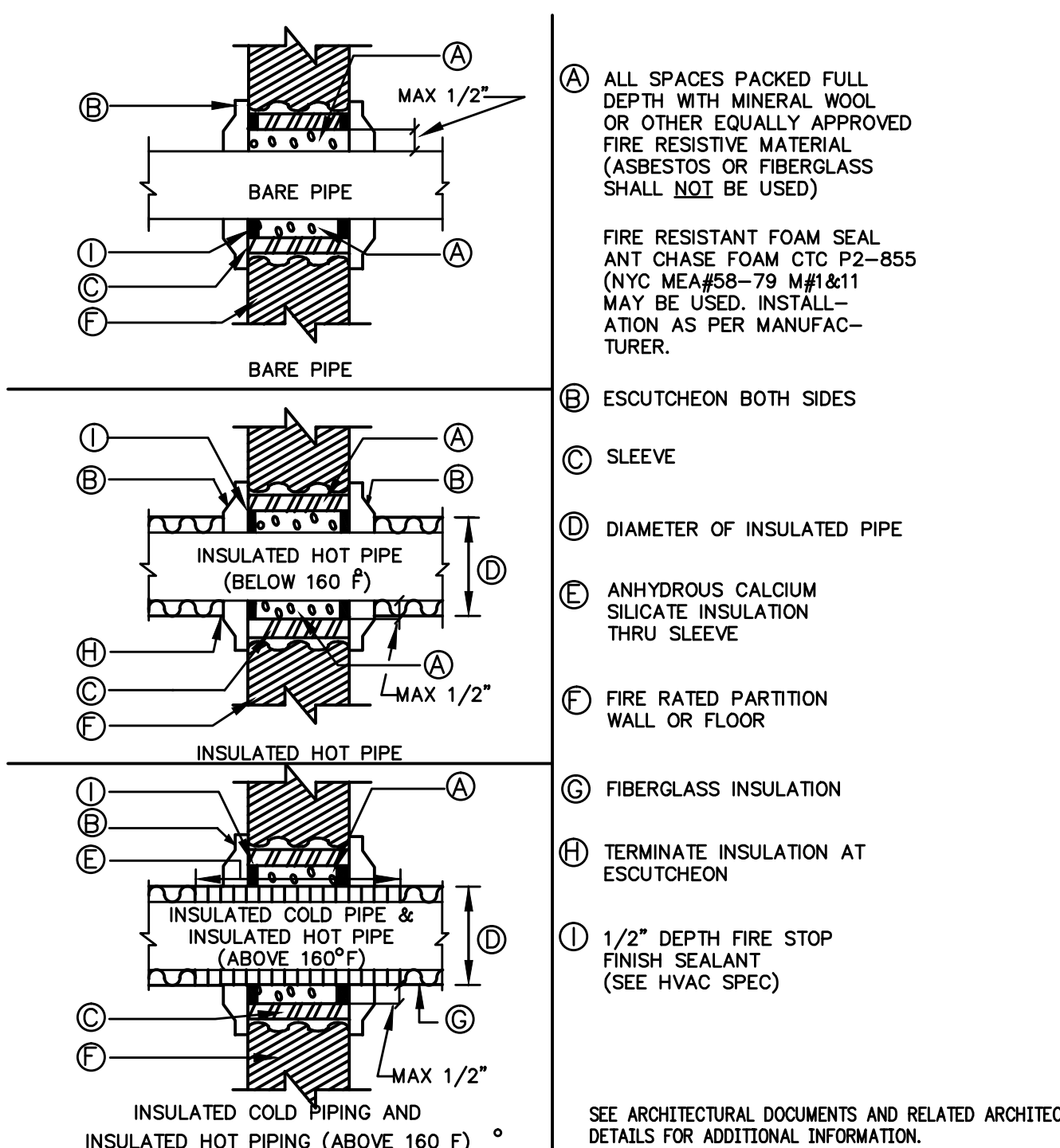
WATER TREATMENT
CHEMICAL SHOT
FEEDER DETAIL
NOT TO SCALE



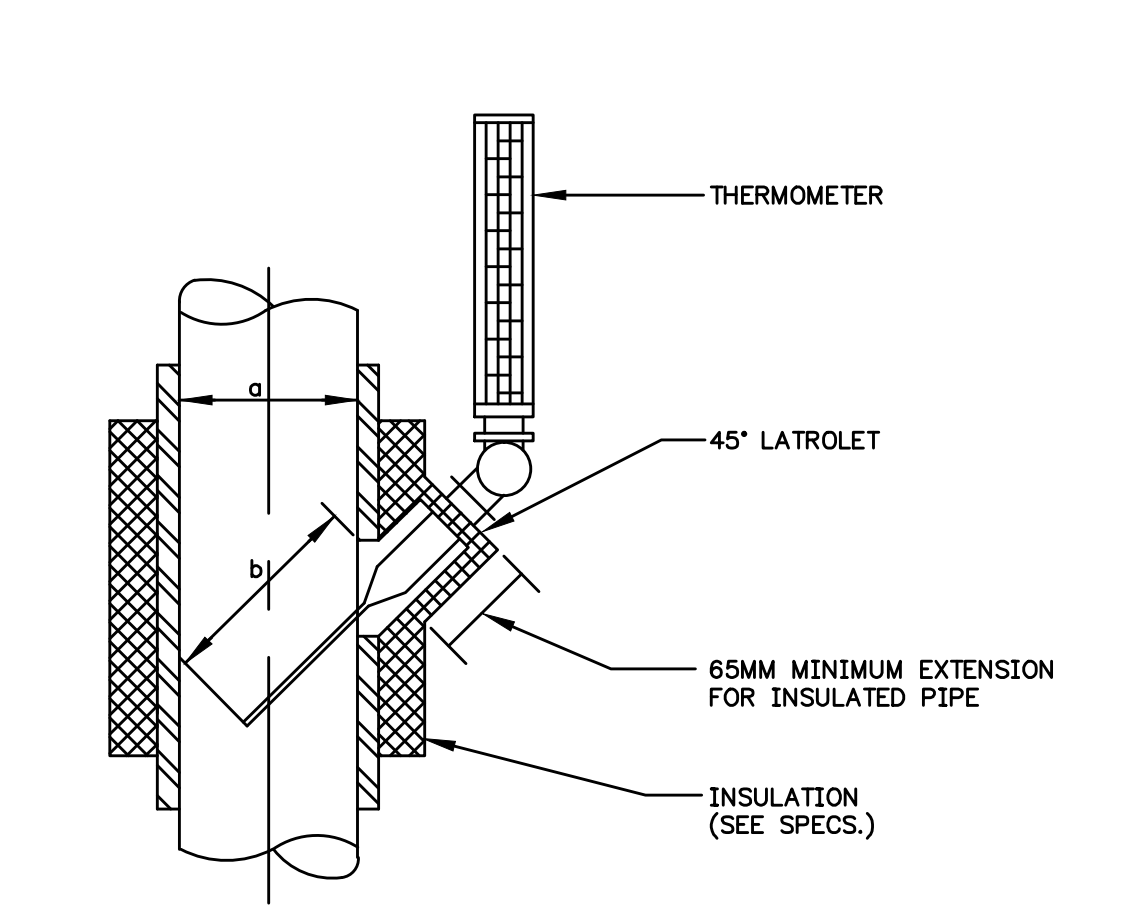
TRANSVERSE AND LONGITUDINAL CABLE
BRACE FOR TRAPEZE HUNG PIPES
NOT TO SCALE



TYPICAL RISER ANCHOR DETAIL
NOT TO SCALE

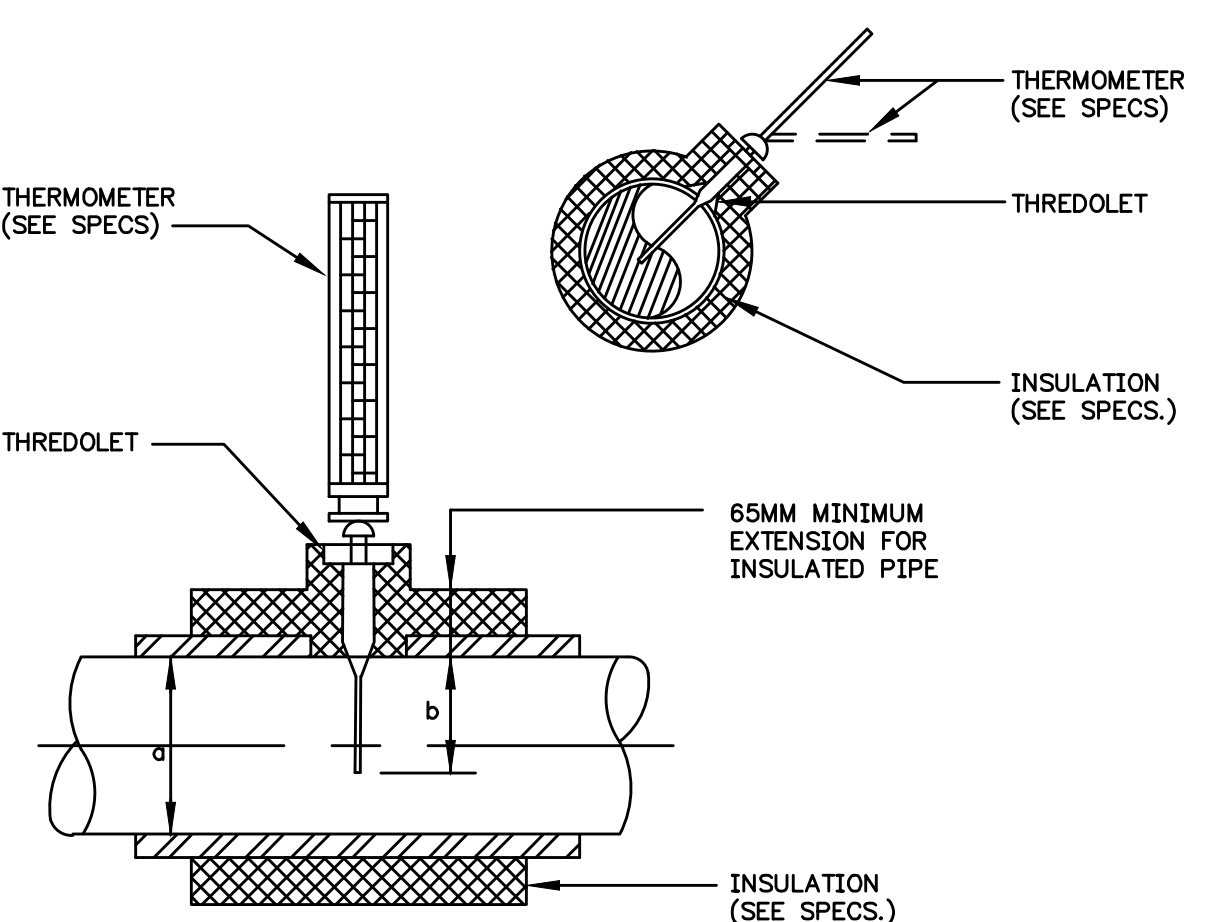


DETAIL OF PIPING PIERCING FIRE
RATED PARTITIONS, WALLS AND FLOORS
NOT TO SCALE



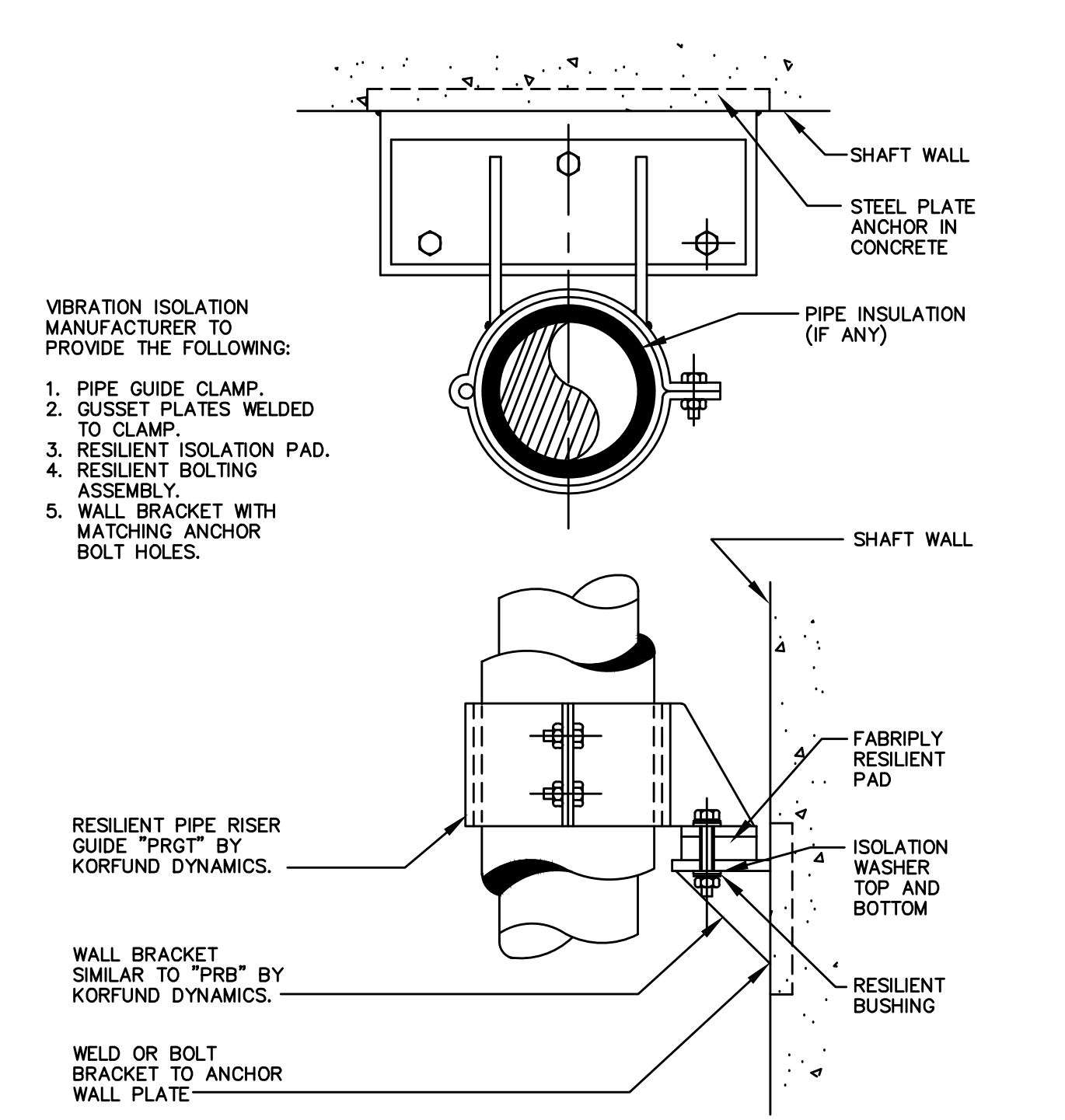
INSERTION LENGTH SCHEDULE	
a = PIPE DIAMETER	b = INSERTION LENGTH
80, 100, 125 AND 150MM	125MM
200MM AND 250MM	20MM
300MM AND LARGER	360MM

THERMOMETER WELL
LOCATED IN VERTICAL PIPE
NOT TO SCALE

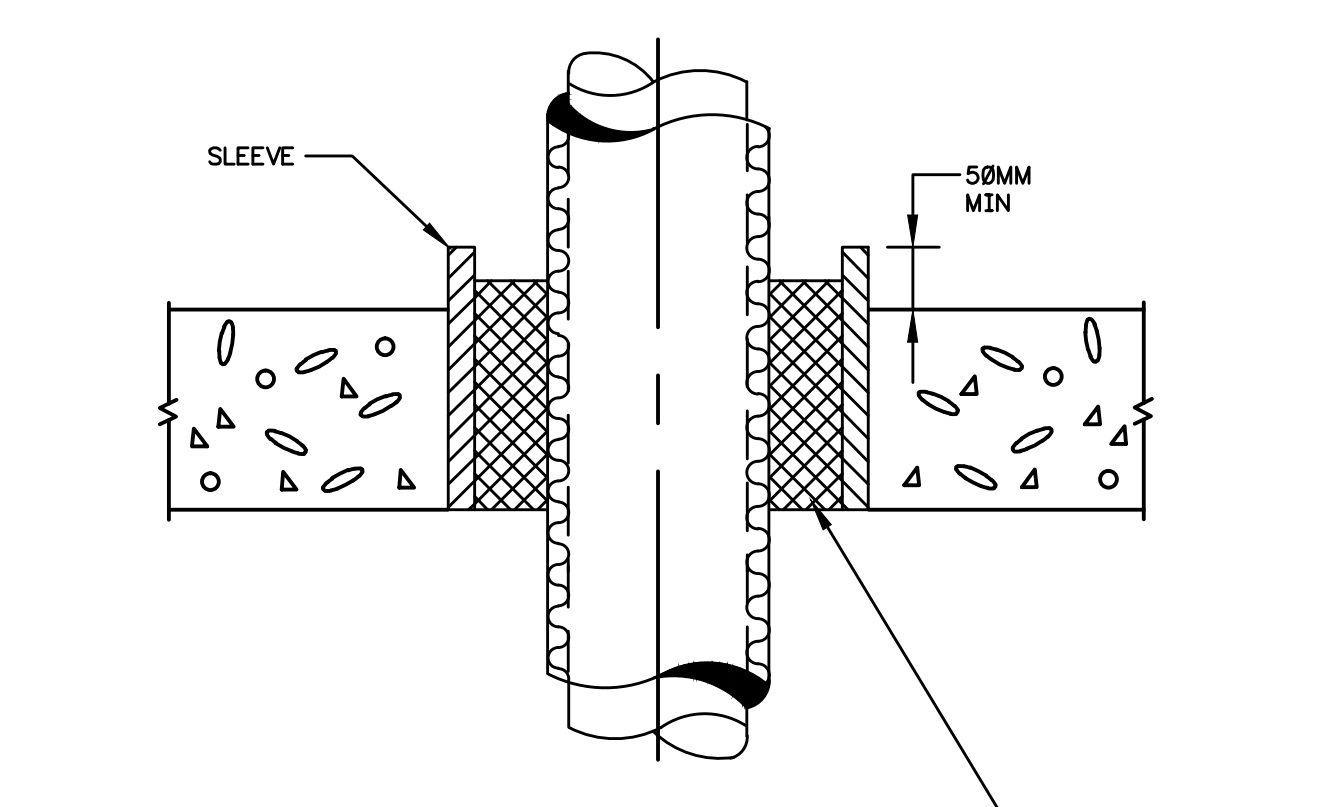


INSERTION LENGTH SCHEDULE	
a = PIPE DIAMETER	b = INSERTION LENGTH
100MM AND 125MM	85MM
150MM AND 200MM	125MM
250MM AND LARGER	200MM

THERMOMETER WELL
LOCATED IN HORIZONTAL PIPE
NOT TO SCALE

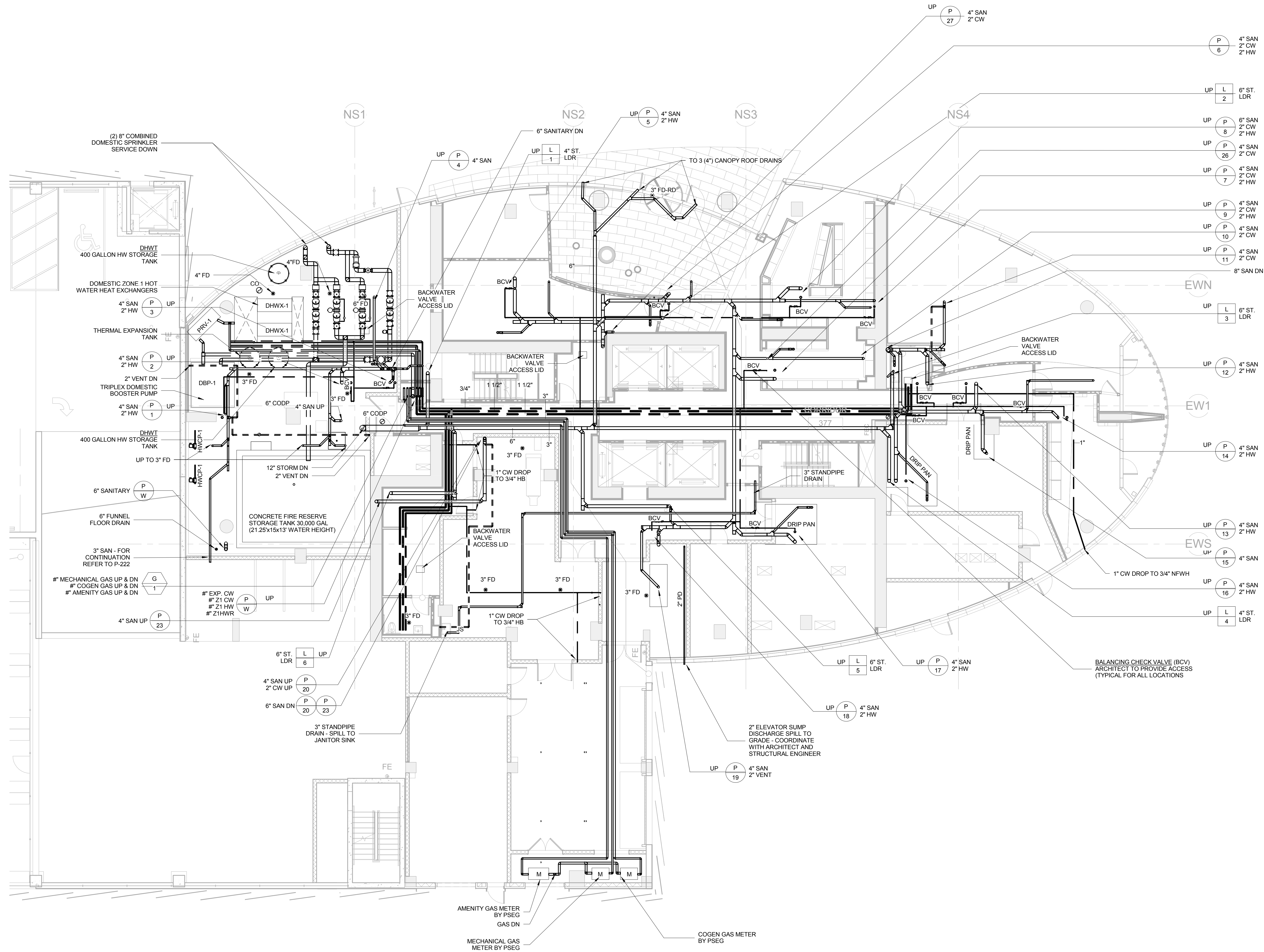


RESILIENT PIPE RISER GUIDE
NOT TO SCALE (FOR PIPE DIAMETERS 6\"/>



TYPICAL PIPE AND/OR CONDUIT
FLOOR PENETRATION
NOT TO SCALE

Drawing Name: G:\0541\PLANS\Mechanical\0541-M-602.dwg - Mon, 23 May 2016 12:03pm



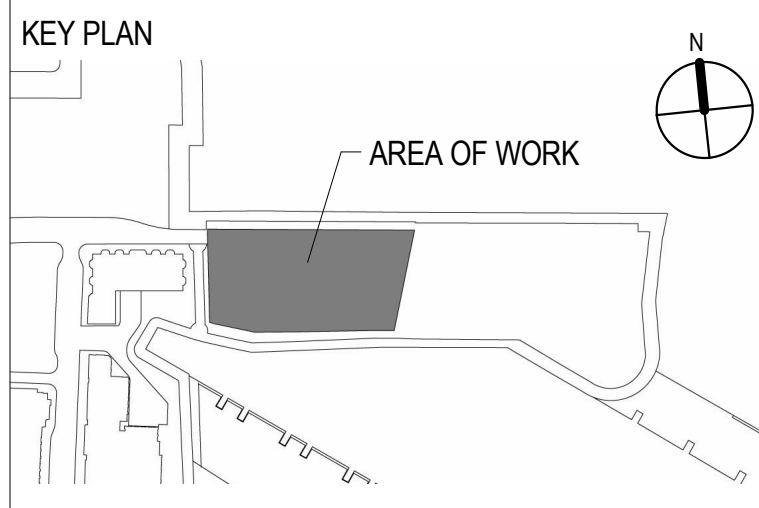
1 TOWER 1ST FLOOR PLUMBING PIPING PLAN
1/8" = 1'-0"



ELLIPSE

25 Park Lane South
Jersey City, NJ 07310

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	02/05/16	ISSUED FOR CONSTRUCTION
Δ	05/09/16	REVISION 1
	05/20/16	ISSUED FOR CONSTRUCTION



CLIENT
ELLIPSE BUILDING LLC
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ISELIN, NJ 08830

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CBA ELEVATOR CONSULTANTS
190 MAIN STREET, SUITE 402
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JOHN J. OSKWA/REC, PROFESSIONAL ENGINEER
NJ License No: 24GE00413400
NJ Certificate of Authorization No: 24GA28188000

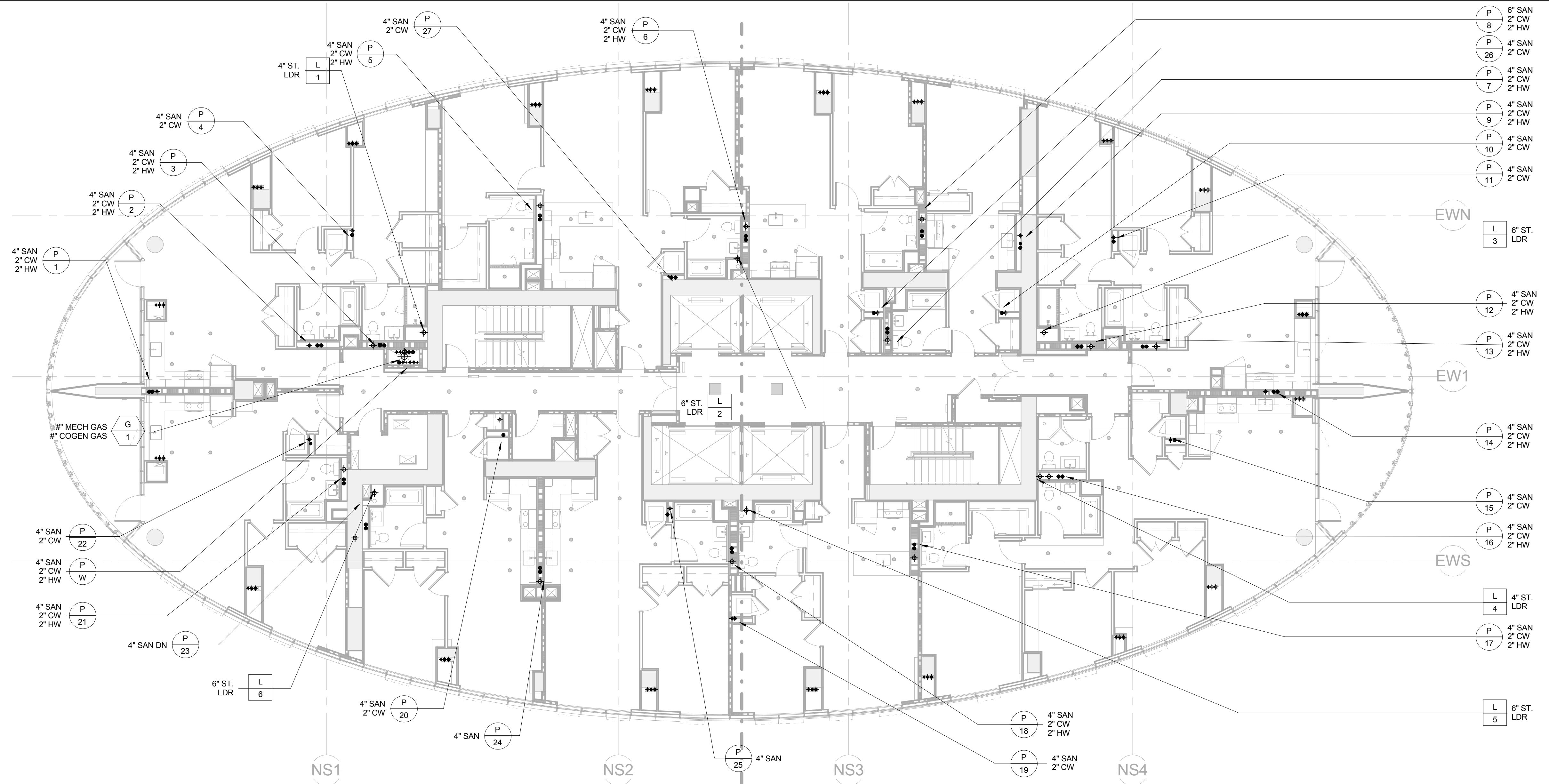
Drawing Title
**1ST FLOOR TOWER
PLUMBING PIPING PLAN**

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: IV	PROJECT NO. 15029

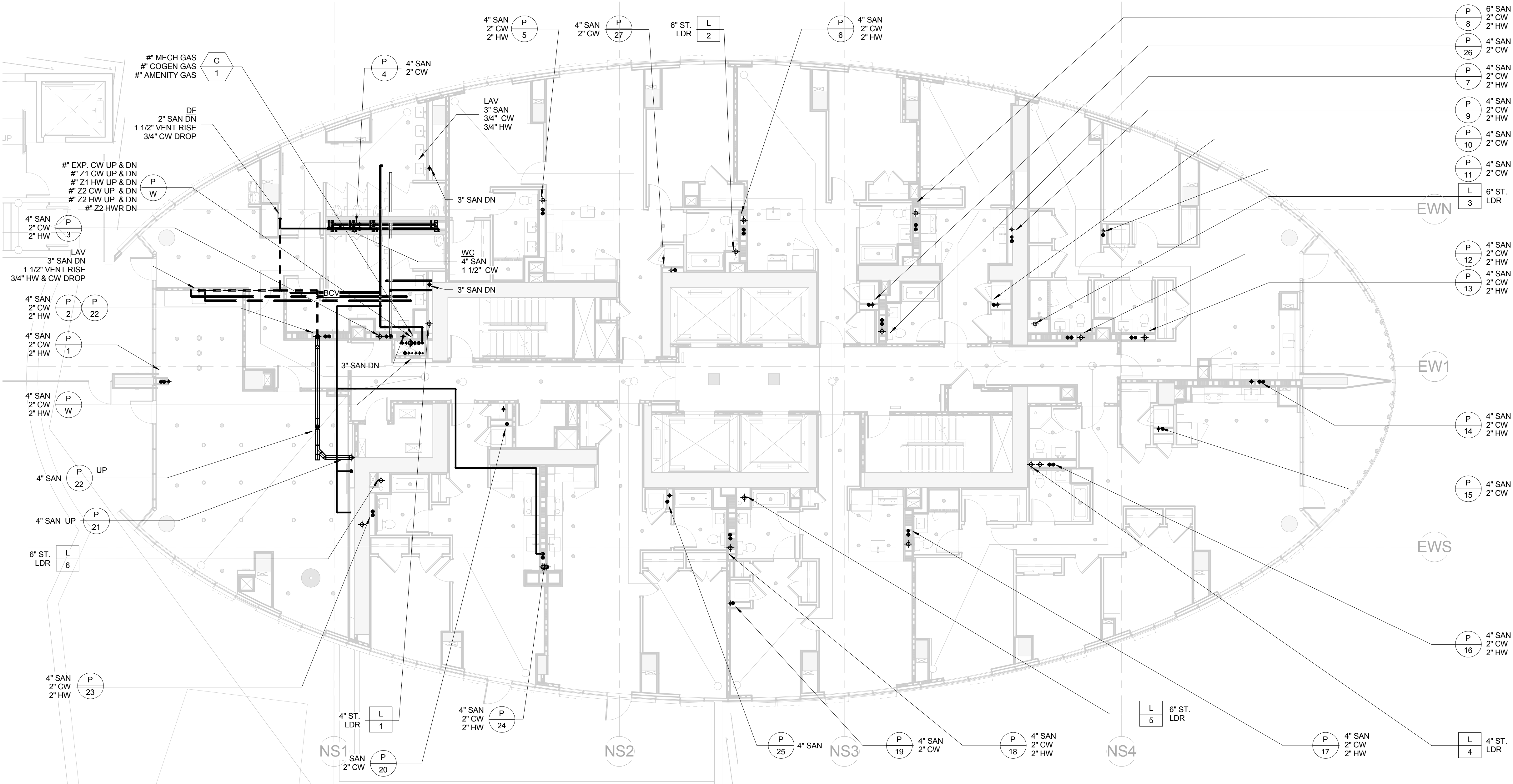
DRAWING NO.

P-201

F E D C B A



2 TOWER 7TH-12TH, 14TH-26TH, 28TH-39TH FLOOR PLUMBING PIPING PLAN
1/8" = 1'-0"



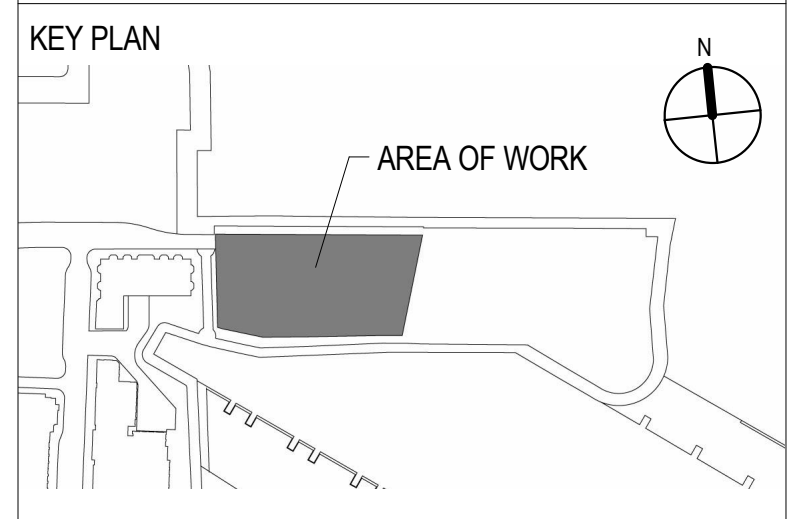
1 TOWER 6TH FLOOR PLUMBING PIPING PLAN
1/8" = 1'-0"

F E D C B A



ELLIPSE
25 Park Lane South
Jersey City, NJ 07310

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02/05/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



CLIENT
ELLIPSE BUILDING LLC
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JERSEY CITY, NJ 07310

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NJ License No: 24GE00413400
NJ Certificate of Authorization No: 24GA28188000

Drawing Title

6TH-12TH, 14TH-26TH, & 28TH-39TH FLOOR PLUMBING PIPING PLANS

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: IV	PROJECT NO. 15029

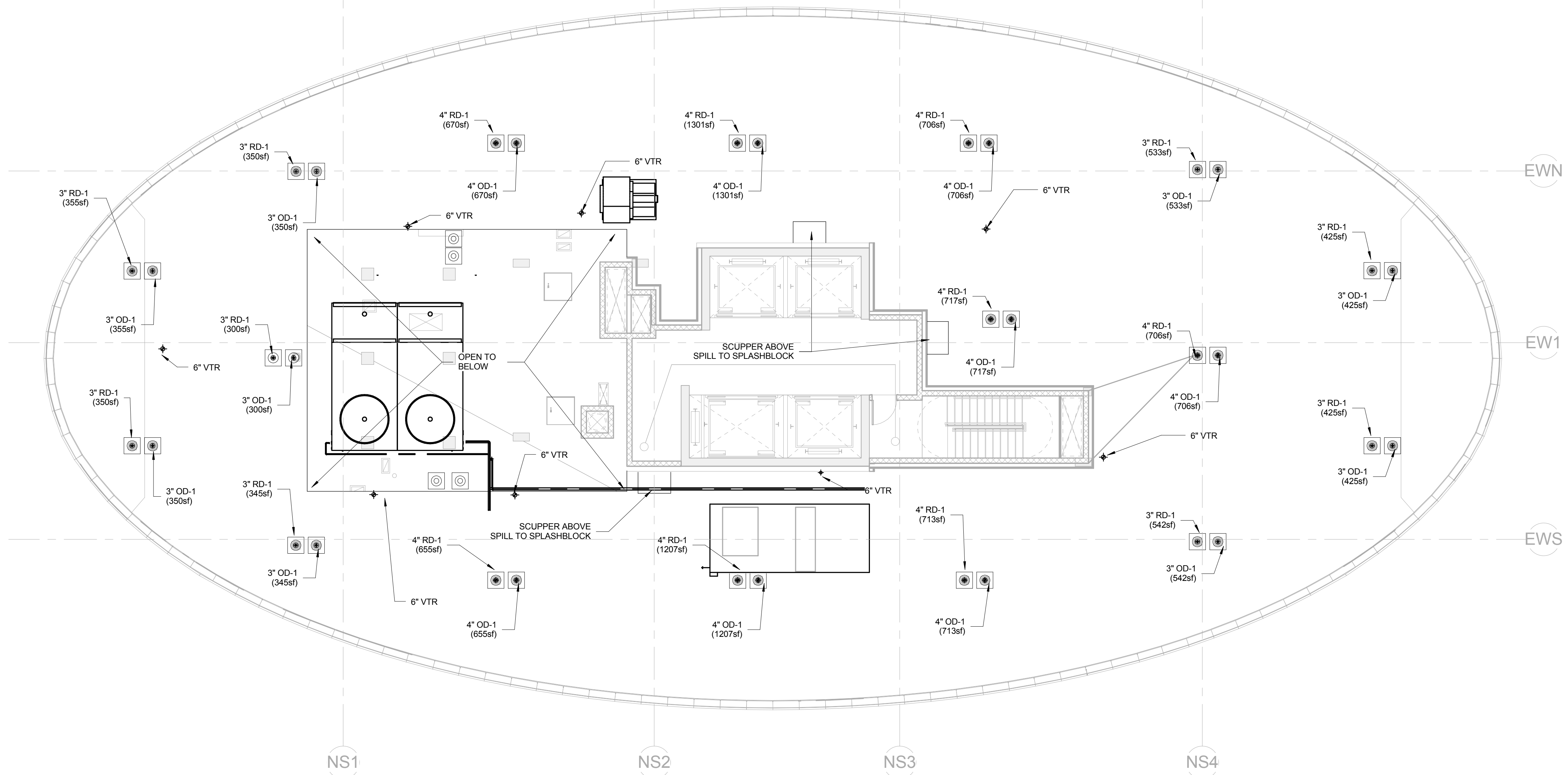
DRAWING NO.

P-204

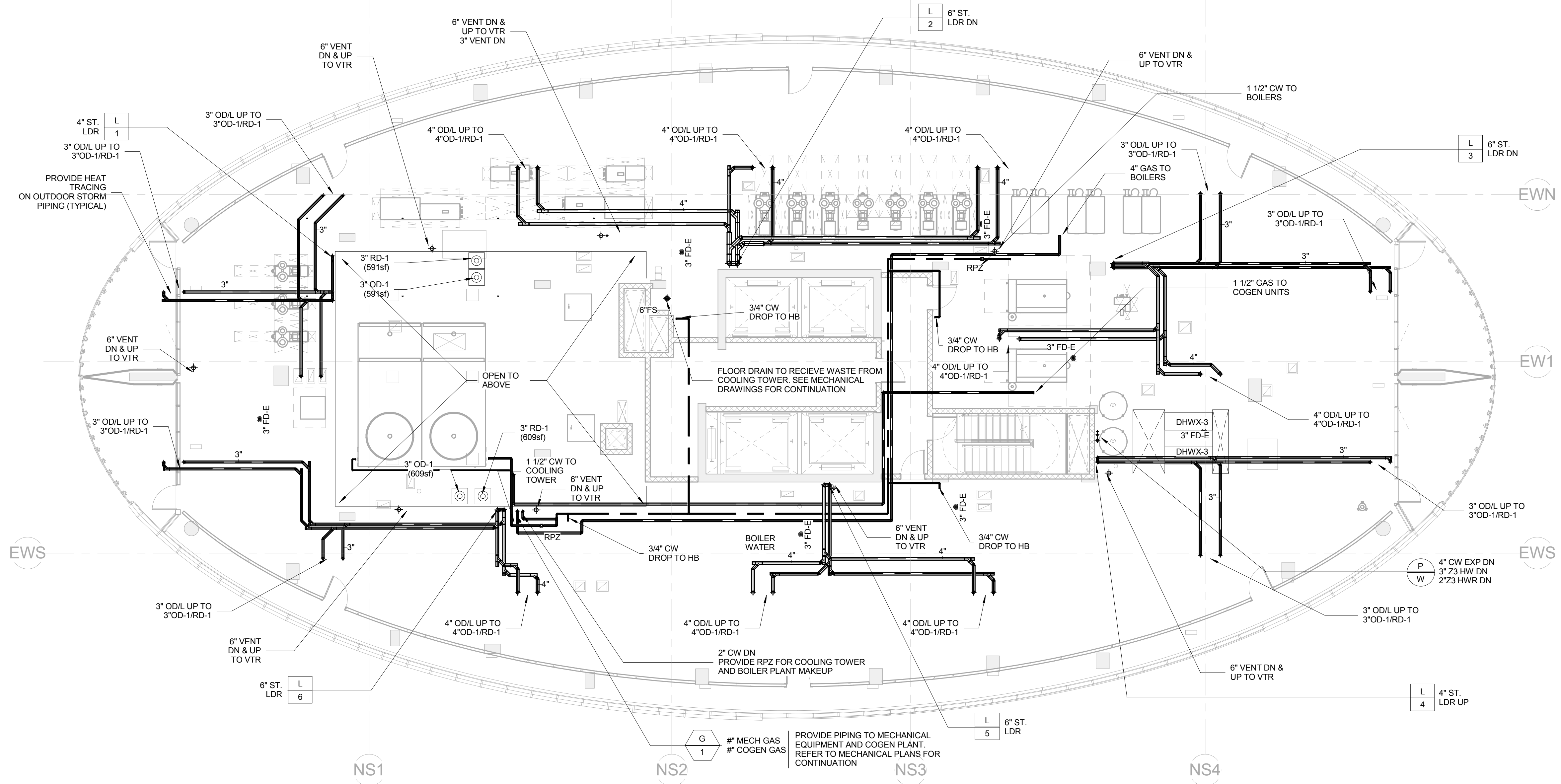
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F E D C B A

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6
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2 TOWER 43RD EMR PLUMBING PIPING PLAN
1/8" = 1'-0"



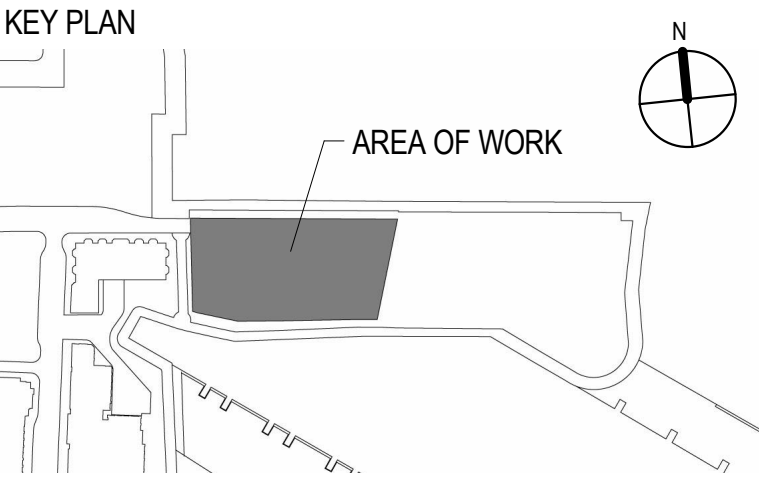
1 TOWER 42ND ROOF PLUMBING PIPING PLAN
1/8" = 1'-0"

F E D C B A



ELLIPSE
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	05/09/16	REVISION 1
	05/20/16	ISSUED FOR CONSTRUCTION



- CLIENT**
ELLIPSE BUILDING LLC
111 TOWN SQUARE PLACE, 15TH FLOOR
JERSEY CITY, NJ 07310
- ARCHITECT OF RECORD**
HLW INTERNATIONAL
122 MAIN STREET
MADISON, NJ 07940
- DESIGN ARCHITECT**
ARQUITECTONICA
100 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10011
- FAÇADE CONSULTANT**
FRANK SETA ASSOCIATES LLC
38 WEST 35TH STREET
NEW YORK, NY 10001
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JERSEY CITY, NJ 07302
- MEP ENGINEER**
ICOR CONSULTING ENGINEERS
485C ROUTE 1 SOUTH, SUITE 200
ISELIN, NJ 08830
- VERTICAL TRANSPORTATION**
CBA ELEVATOR CONSULTANTS
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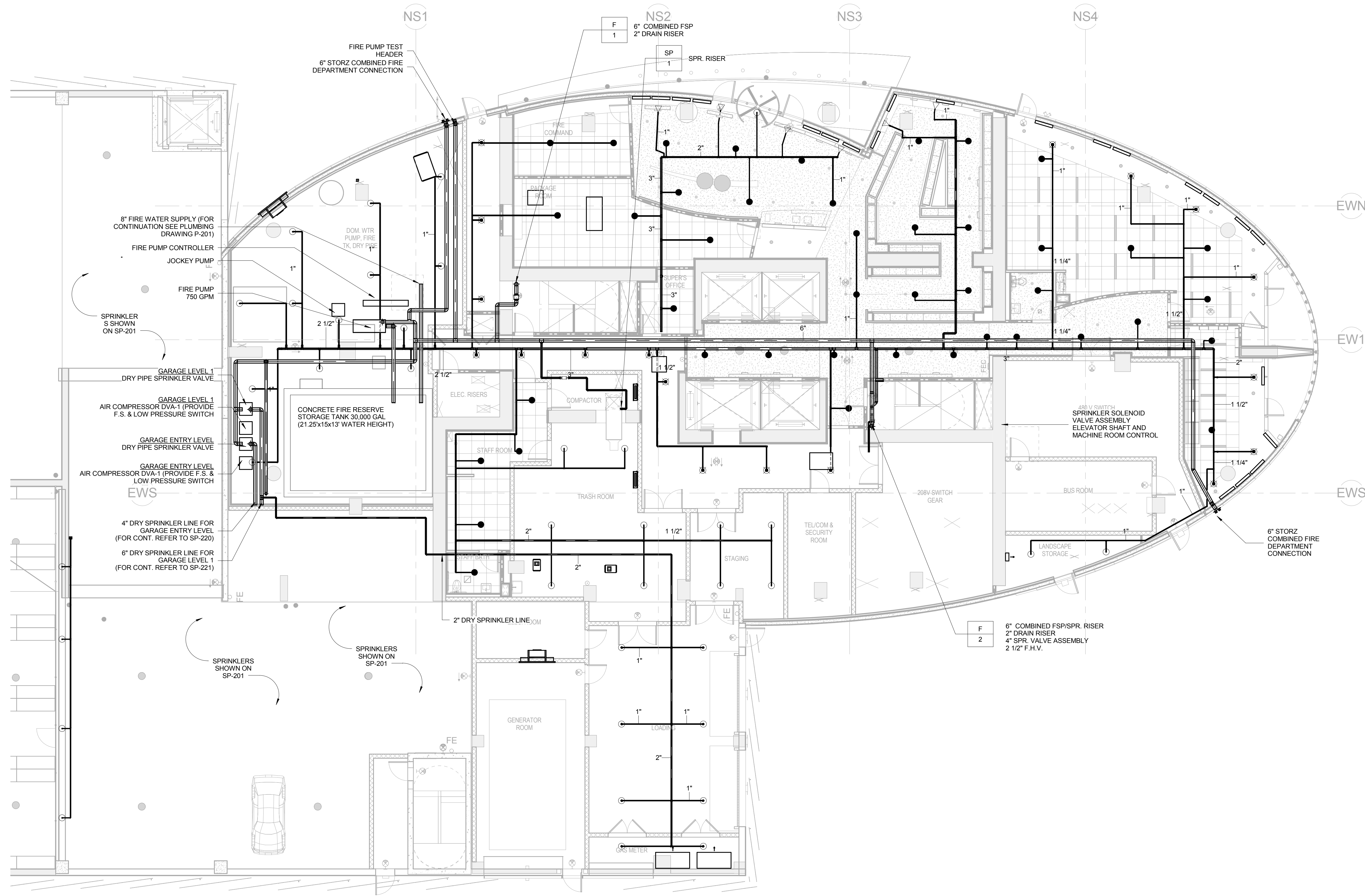
Drawing Title
ROOF & EMR PLUMBING PIPING PLANS

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: IV	PROJECT NO. 15029

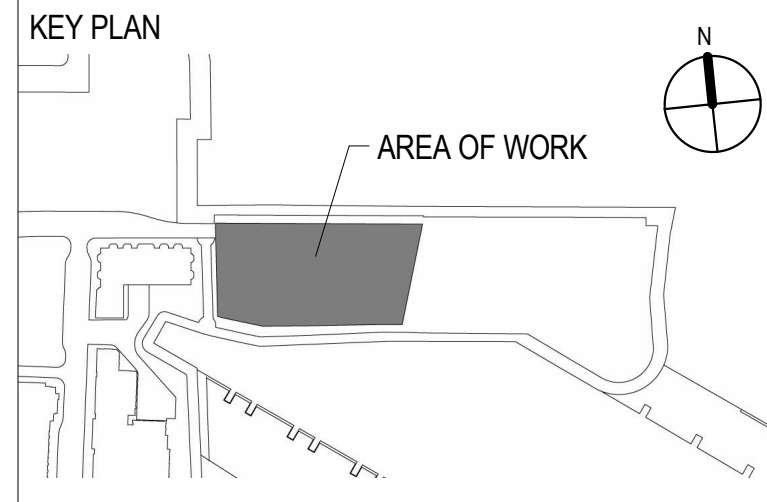
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P-207

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02/05/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



CLIENT
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111 TOWN SQUARE PLACE, 15TH FLOOR
JERSEY CITY, NJ 07310

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NEW YORK, NY 10011

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JOHN J. OSKWAJEK, PROFESSIONAL ENGINEER
NJ License No: 24GED0413400
NJ Certificate of Authorization No: 24GA28188000

Drawing Title
**1ST FLOOR TOWER
SPRINKLER PIPING PLAN**

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: IV	PROJECT NO. 15029

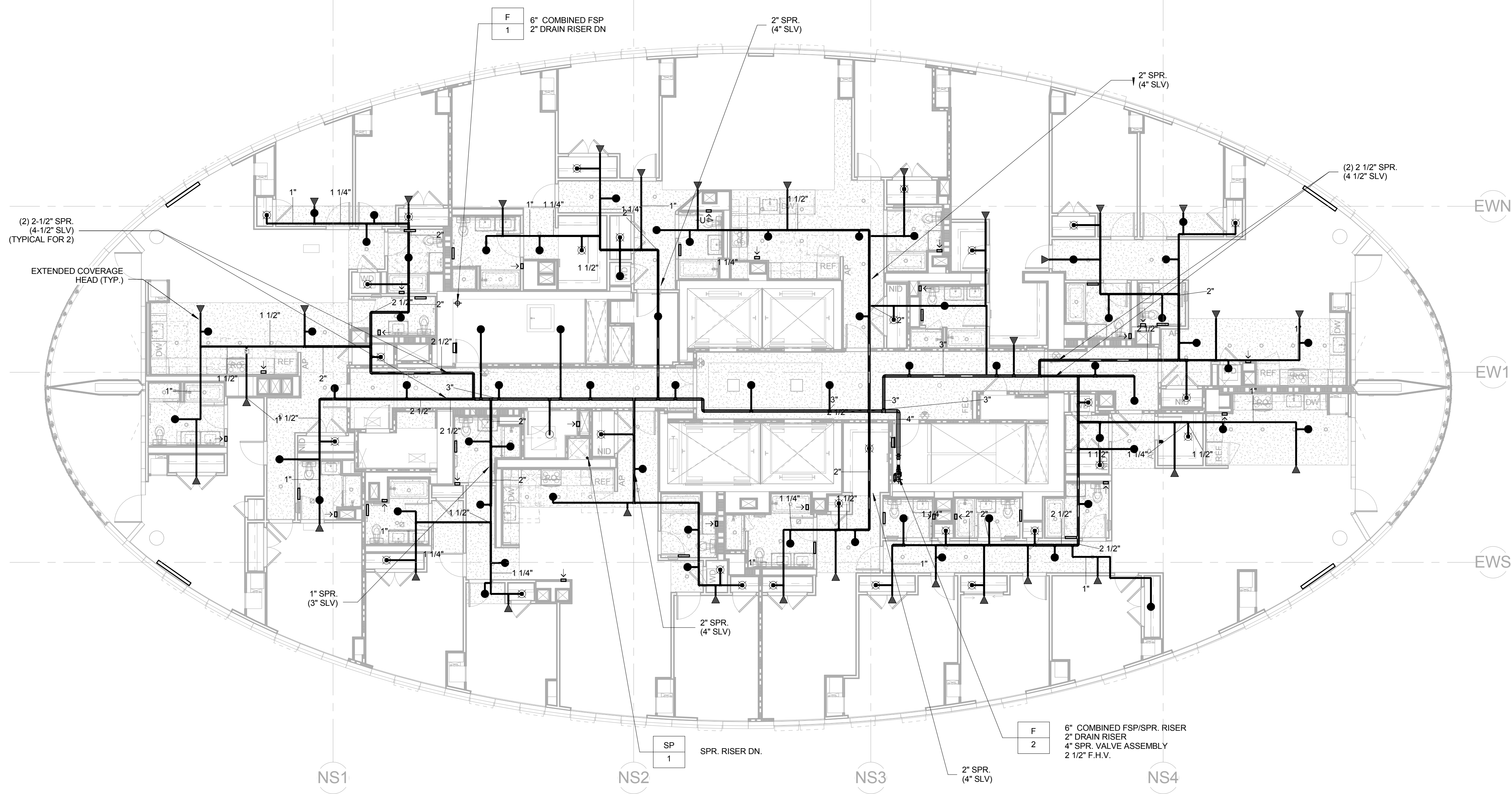
DRAWING NO.
SP-201

1 TOWER 1ST FLOOR SPRINKLER PIPING PLAN
1/8" = 1'-0"

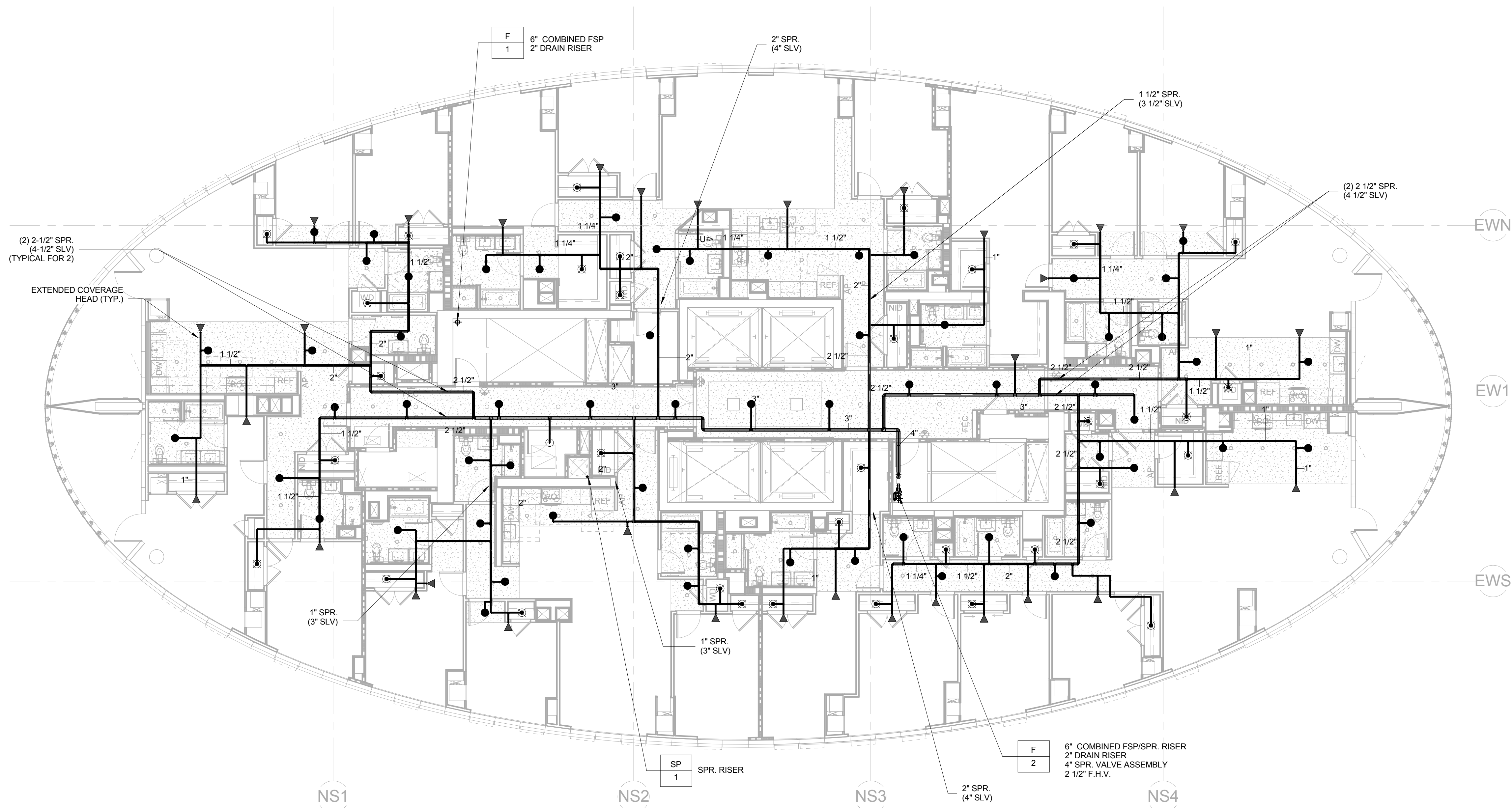
C:\Users\zakirova\Documents\0541-Ellipse-MEP-R14_Zakirova.rvt 5/23/2016 12:13:43 PM

F E D C B A

7
6
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1



2 TOWER 41ST FLOOR SPRINKLER PIPING PLAN
1/8" = 1'-0"



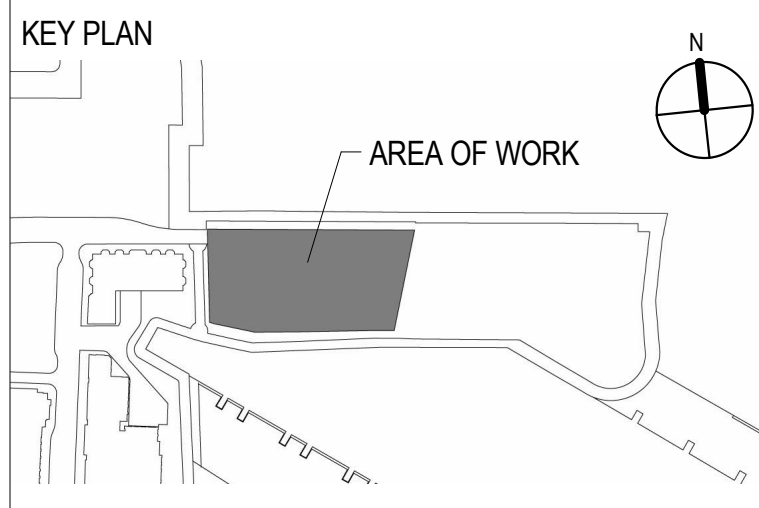
1 TOWER 40TH FLOOR SPRINKLER PIPING PLAN
1/8" = 1'-0"

F E D C B A



ELLIPSE
25 Park Lane South
Jersey City, NJ 07310

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NEW YORK, NY 10001

STRUCTURAL ENGINEER
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62 WEST 45TH STREET, 11TH FLOOR
NEW YORK, NY 10036

PRECAST ENGINEER
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STATE COLLEGE, PA 16803

CIVIL ENGINEER
DRESDNER ROBIN
1 EVERREST PLAZA, SUITE 901
JERSEY CITY, NJ 07302

MEP ENGINEER
ICOR CONSULTING ENGINEERS
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VERTICAL TRANSPORTATION
CBA ELEVATOR CONSULTANTS
190 MAIN STREET, SUITE 402
HACKENSACK, NJ 07601

POOL DESIGN
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

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JOHN J. OSKAWAREK, PROFESSIONAL ENGINEER
NJ License No: 24GED0413400
NJ Certificate of Authorization No: 24GA28188000

Drawing Title
**40TH-41ST FLOOR
SPRINKLER PIPING PLANS**

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: IV	PROJECT NO. 15029

DRAWING NO.

SP-204

F E D C B A

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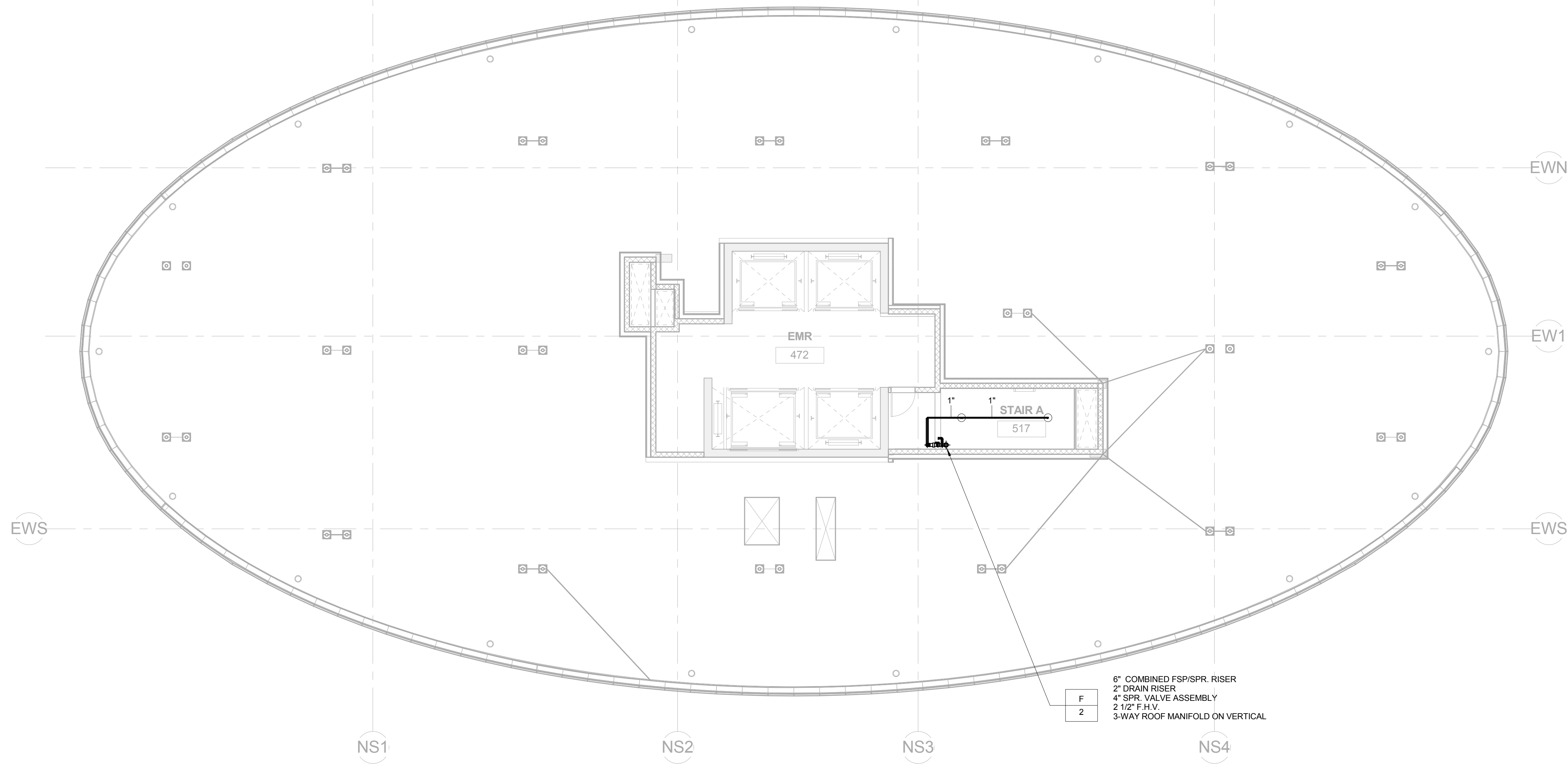
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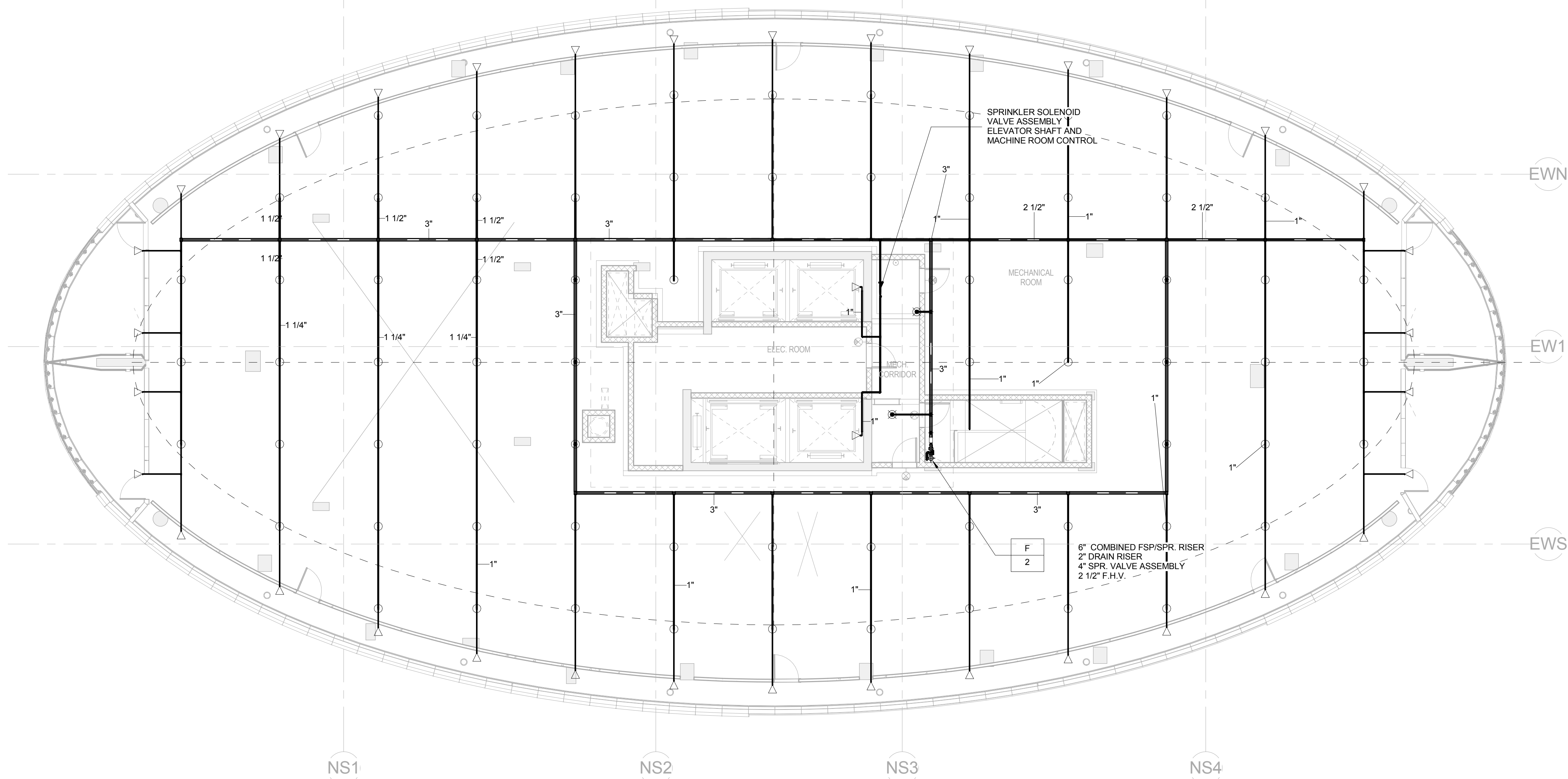
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2

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2 TOWER 43RD EMR SPRINKLER PIPING PLAN
1/8" = 1'-0"



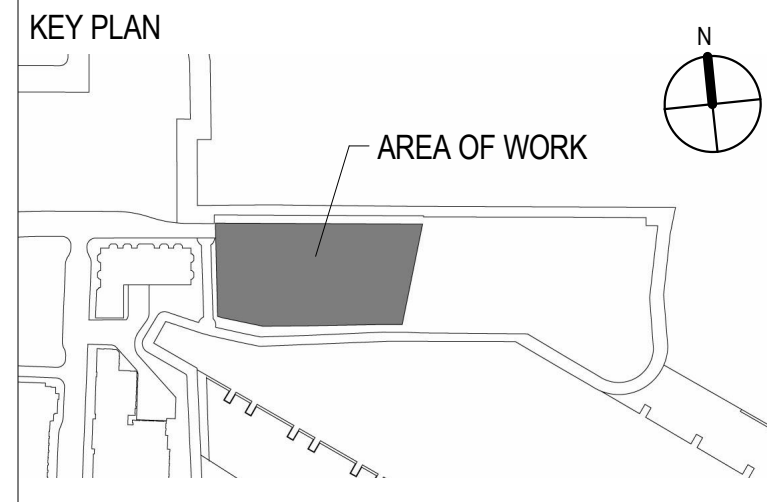
1 TOWER 42ND ROOF SPRINKLER PIPING PLAN
1/8" = 1'-0"

F E D C B A



ELLIPSE
25 Park Lane South
Jersey City, NJ 07310

NO.	DATE	ISSUE OR REVISION
10/16/15		ISSUED FOR FILING
11/20/15		ISSUED FOR BID
02/05/16		ISSUED FOR CONSTRUCTION
02/05/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



CLIENT
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ARCHITECT OF RECORD
HLW INTERNATIONAL
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Drawing Title
ROOF & EMR SPRINKLER PIPING PLANS

SCALE: 1/8" = 1'-0"	DATE: 05/20/2016
CHECKED BY: IV	PROJECT NO. 15029

DRAWING NO.
SP-205

C:\Users\zakirova\Documents\0541-Ellipse-MEP-R14_Zakirova.rvt 5/23/2016 12:15:53 PM



ELLIPSE TOWER
25 Park Lane South
Jersey City, NJ 07310

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11/20/15		ISSUED FOR BID
02/05/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION

NOTES:

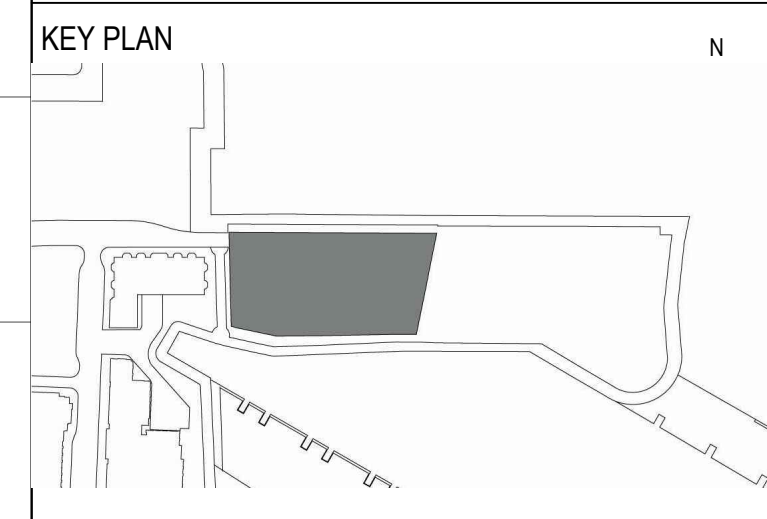
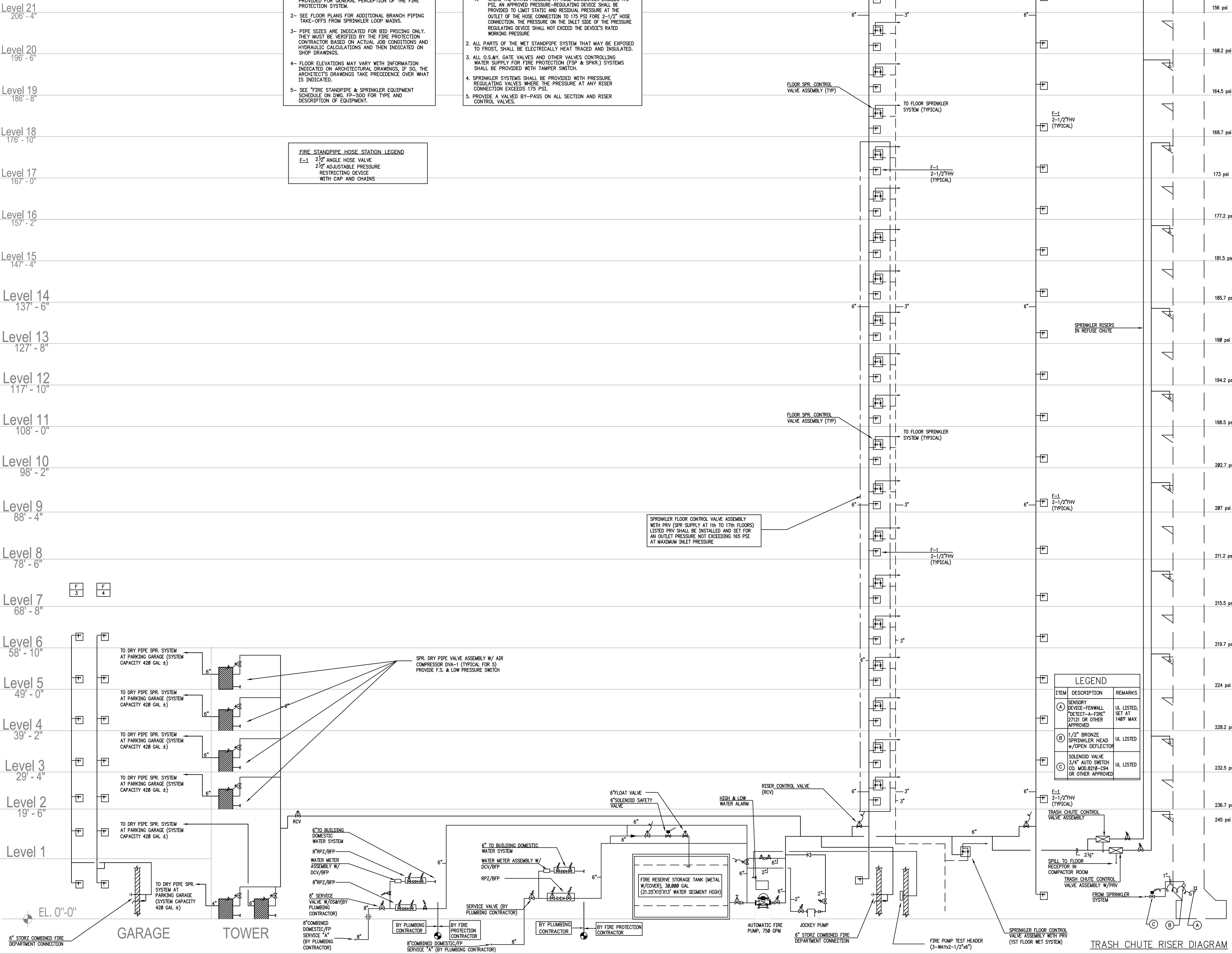
- RISER DIAGRAM IS CONCEPTUAL AND DIAGRAMATIC, PROVIDED FOR GENERAL PERCEPTION OF THE FIRE PROTECTION SYSTEM.
- SEE FLOOR PLANS FOR ADDITIONAL BRANCH PIPING TAKE-OFFS FROM SPRINKLER LOOP MAINS.
- PIPE SIZES ARE INDICATED FOR BID PRICING ONLY. THEY MUST BE VERIFIED BY THE FIRE PROTECTION CONTRACTOR BASED ON ACTUAL JOB CONDITIONS AND HYDRAULIC CALCULATIONS AND THEN INDICATED ON SHOP DRAWINGS.
- FLOOR ELEVATIONS MAY VARY WITH INFORMATION INDICATED ON ARCHITECTURAL DRAWINGS, IF SO, THE ARCHITECT'S DRAWINGS TAKE PRECEDENCE OVER WHAT IS INDICATED.
- SEE "FIRE STANDPIPE & SPRINKLER EQUIPMENT SCHEDULE ON DWG. FP-500 FOR TYPE AND DESCRIPTION OF EQUIPMENT.

NOTES:

- PRESSURE RESTRICTOR DEVICES**
 - WHERE THE STATIC PRESSURE AT HOSE CONNECTION EXCEEDS 175 PSI, AN APPROVED PRESSURE-REGULATING DEVICE SHALL BE PROVIDED TO LIMIT STATIC AND RESIDUAL PRESSURE AT THE OUTLET OF THE HOSE CONNECTION TO 175 PSI FOR 2-1/2" HOSE CONNECTION. THE PRESSURE ON THE INLET SIDE OF THE PRESSURE REGULATING DEVICE SHALL NOT EXCEED THE DEVICE'S RATED WORKING PRESSURE.
- ALL PARTS OF THE WET STANDPIPE SYSTEM THAT MAY BE EXPOSED TO FROST, SHALL BE ELECTRICALLY HEAT TRACED AND INSULATED.
- ALL O.S.&Y. GATE VALVES AND OTHER VALVES CONTROLLING WATER SUPPLY FOR FIRE PROTECTION (FSP & SPKR.) SYSTEMS SHALL BE PROVIDED WITH TAMPER SWITCH.
- SPRINKLER SYSTEMS SHALL BE PROVIDED WITH PRESSURE REGULATING VALVES WHERE THE PRESSURE AT ANY RISER CONNECTION EXCEEDS 175 PSI.
- PROVIDE A VALVED BY-PASS ON ALL SECTION AND RISER CONTROL VALVES.

FIRE STANDPIPE HOSE STATION LEGEND

E-1 2 1/2" ANGLE HOSE VALVE
2 1/2" ADJUSTABLE PRESSURE RESTRICTING DEVICE WITH CAP AND CHAINS



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CBA ELEVATOR CONSULTANTS
180 MAIN STREET, SUITE 402
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- POOL DESIGN**
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604

LEGEND

ITEM	DESCRIPTION	REMARKS
(A)	SENSORY DEVICE-FIREWALL "DETECT-A-FIRE" 27121 OR OTHER APPROVED	UL LISTED, SET AT 148°F MAX
(B)	1/2" BRONZE SPRINKLER HEAD W/O OPEN DEFLECTOR	UL LISTED
(C)	SOLENOID VALVE 3/4" AUTO SWITCH CO. MOD.8210-C94 OR OTHER APPROVED	UL LISTED

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NJ Certificate of Authorization No: 24GA28188000

Drawing Title
SPRINKLER RISER DIAGRAM SHEET 1 OF 2

SCALE: NO SCALE DATE: 05/20/2016
CHECKED BY: DS PROJECT NO. 15029
DRAWING NO.

SP-401A

Drawing Name: G:\0541\PLANS\Fire Protection\0541-SP-401A.dwg - Mon, 23 May 2016 - 12:01 pm

F E D C B A

Machine Room Level
426' - 11"

Roof Level 42
416' - 6"

Level 41
404' - 10"

Level 40
393' - 2"

Level 39
383' - 4"

Level 38
373' - 6"

Level 37
363' - 8"

Level 36
353' - 10"

Level 35
344' - 0"

Level 34
334' - 2"

Level 33
324' - 4"

Level 32
314' - 6"

Level 31
304' - 8"

Level 30
294' - 10"

Level 29
285' - 0"

Level 28
275' - 2"

Level 27
265' - 4"

Level 26
255' - 6"

Level 25
245' - 8"

Level 24
235' - 10"

Level 23
226' - 0"

Level 22
216' - 2"

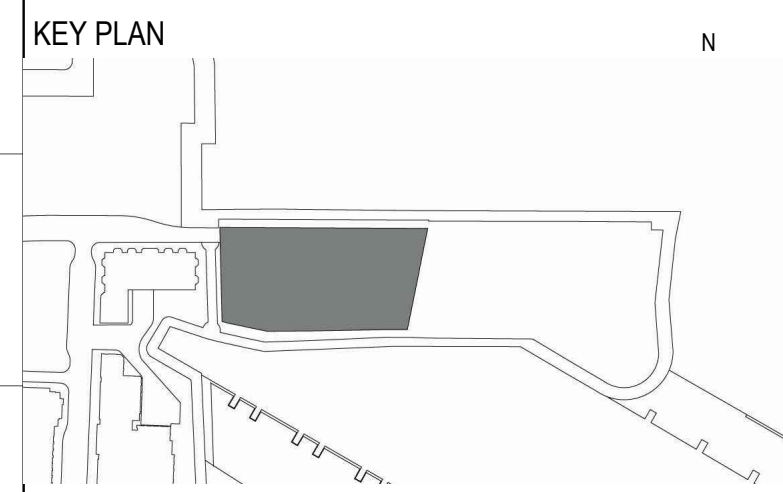
NOTES:
 1- RISER DIAGRAM IS CONCEPTUAL AND DIAGRAMATIC, PROVIDED FOR GENERAL PERCEPTION OF THE FIRE PROTECTION SYSTEM.
 2- SEE FLOOR PLANS FOR ADDITIONAL BRANCH PIPING TAKE-OFFS FROM SPRINKLER LOOP MAINS.
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 4- FLOOR ELEVATIONS MAY VARY WITH INFORMATION INDICATED ON ARCHITECTURAL DRAWINGS. IF SO, THE ARCHITECT'S DRAWINGS TAKE PRECEDENCE OVER WHAT IS INDICATED.
 5- SEE "FIRE STANDPIPE & SPRINKLER EQUIPMENT SCHEDULE ON DWG. FP-500 FOR TYPE AND DESCRIPTION OF EQUIPMENT.

FIRE STANDPIPE HOSE STATION LEGEND
 F-1 2 1/2" ANGLE HOSE VALVE
 2 1/2" ADJUSTABLE PRESSURE RESTRICTING DEVICE WITH CAP AND CHAINS



ELLIPSE TOWER
 25 Park Lane South
 Jersey City, NJ 07310

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05/20/16		ISSUED FOR CONSTRUCTION



- CLIENT**
 ELLIPSE BUILDING LLC
 111 TOWN SQUARE PLACE, 15TH FLOOR
 JERSEY CITY, NJ 07310
- ARCHITECT OF RECORD**
 HLW INTERNATIONAL
 122 MAIN STREET
 MADISON, NJ 07940
- DESIGN ARCHITECT**
 ARGUTECTONICA
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- VERTICAL TRANSPORTATION**
 CBA ELEVATOR CONSULTANTS
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 TRACE POOL DESIGN
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 JOHN I. OSKWAREK, PROFESSIONAL ENGINEER
 NJ License No: 24624413400
 NJ Certificate of Authorization No: 24GA28188000

Drawing Title
SPRINKLER RISER DIAGRAM SHEET 2 OF 2

SCALE: NO SCALE DATE: 05/20/2016
 CHECKED BY: DS PROJECT NO. 15029
 DRAWING NO.

SP-401B

F E D C B A

Drawing Name: G:\0541\PLANS\Fire Protection\0541-SP-401B.dwg - Mon, 23 May 2016 - 12:01pm

SCHEDULE 40 PIPE - VICTAULIC COUPLING & FITTING SCHEDULE. Table with columns for VICTAULIC FIG. No., SIZE, TYPE, and various specifications and service locations.

FIRE PROTECTION MATERIAL SCHEDULE. Table with columns for SYSTEM, PIPE, FITTINGS, and JOINTS, listing materials like DUCTILE IRON, STEEL, and GALVANIZED.

GENERAL - FIRE PROTECTION CONTRACTOR NOTES

- 1. FOR TIGHT CONSTRUCTION CONDITIONS, AND LIMITED SPACE WITH-IN CEILING CAVITY... 2. ALL MATERIALS SELECTED ON THIS SCHEDULE... 3. TO BE USED DOWNSTREAM OF FLOOR CONTROL... 4. TO BE USED ON RISERS AND MAINS.

SCHEDULE OF FIRE PROTECTION EQUIPMENT

- 1. ALL EQUIPMENT TO BE UL/FM APPROVED... 2. ALL EQUIPMENT HOSE THREADS AS PER LOCAL FIRE DEPARTMENT REQUIREMENTS... 3. PROVIDE ALL SIGNAGE AS REQUIRED BY THE LOCAL FIRE DEPARTMENT

Table with columns: ITEM, MODEL NO., FINISH & CONSTRUCTION, REMARKS. Lists equipment like fire hose valves, department inlets, and pipe valves.

NOTE: THIS VALVE SCHEDULE IS BASED ON STOCKHAM VALVES FIRE PROTECTION VALVE SCHEDULE

Table with columns: TYPE, STOCKHAM FIG. NO., VALVE SPECIFICATION, LOCATION. Lists various valve types like gate valves, check valves, and globe valves.

NOTE: FOR PRESSURE RATING OF VALVES, REFER TO RISER DIAGRAM.

DESIGN CRITERIA FOR ELECTRICAL/TELEPHONE SPACES

- 1. ALL SWITCHGEAR SPACES SHALL BE EXEMPT OF SPRINKLER PROTECTION... 2. ALL ELECTRICAL CLOSETS SHALL HAVE A NON-FERROUS METAL DRIP PAN DIRECTLY BELOW THE SPRINKLER PIPING ABOVE THE BUSWAY... 3. ELECTRICAL SPACES SHALL BE PROVIDED WITH SPRINKLER PROTECTION.

- NOTES: A' 007 ZEROFLEX UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 350 PSI WMP... B' 007 ZEROFLEX UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 400 PSI WMP... C' 77 UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 450 PSI WMP... D' 75 UL/FM APPROVED WITH LT. WALL PIPE ROLL GROOVE 450 PSI WMP

- GENERAL NOTE: 1. FITTINGS AND PRESSURE RATINGS ARE UL LISTED. REFER TO MANUFACTURER FOR FACTORY MUTUAL APPROVED FITTING PRESSURE RATING.

FIRE PROTECTION PUMP SCHEDULE. Table with columns for SERVICE OR PURPOSE, LOCATION, NO. OF PUMPS, MAN. & MODEL NO., PUMP DATA, MOTOR DATA, and REMARKS.

SCHEDULE OF SPRINKLER HEADS. Table with columns for SYMBOL, MANUFACTURER & MODEL No., TYPE, LOCATION, FINISH & REMARKS, TEMP. RATING, 'K' FACTOR, MIN. PRESS., APPROVALS, and SIN.

Sequence of Operations for Dry Pipe Valves

Dry Systems for Fire Protection

The Series 768 Dry Valve contains a clapper, which has a replaceable rubber seal. The clapper makes contact with the valve's seat ring, which has access holes leading into an intermediate chamber in the valve.

In the closed position, the valves diaphragm is maintained in the extended position by the water supply pressure from upstream of the water supply control valve.

Once the system's air pressure reduces to the trip point, the LPA opens and allows the water supply pressure in the diaphragm to release (i.e. an open sprinkler). This release allows the latch to move to its open position, permitting the clapper to pivot freely, thus allowing water into the system.

Water enters the intermediate chamber of the valve through the holes in the seat ring. The water flows from the intermediate chamber to the alarm line, which activates the system's alarms.

When the flow of water stops, the spring-assisted valve clapper returns to the closed position. The valve acts as an alarm check valve until the system is back in service as a dry system, according to the proper procedure.

SCHEDULE OF FIRE PROTECTION EQUIPMENT

- NOTES: 1. ALL EQUIPMENT TO BE UL/FM APPROVED. 2. PROVIDE ALL SIGNAGE AS REQUIRED BY THE LOCAL FIRE DEPARTMENT, COORDINATE WITH ARCHITECT.

Table with columns: ITEM, MODEL NO., FINISH & CONSTRUCTION, REMARKS. Lists equipment like dry pipe valve assembly.

COUPLING & FITTING SPECIFICATIONS SCHEDULE. Large table with columns for VICTAULIC FIG. NO., STYLE & TYPE, PRESSURE RATING, SERVICE & LOCATION, and MEA/BSA NUMBER.

- NOTES: 1. CONSULT 'VICTAULIC' LITERATURE NO. 10.01 FOR APPROVED PRODUCTS PRESSURE RATINGS... 2. ALL COUPLINGS AND FITTINGS REGARDLESS OF MANUFACTURER TO BE INSTALLED PER MANUFACTURER'S FIELD INSTALLATION HANDBOOK.

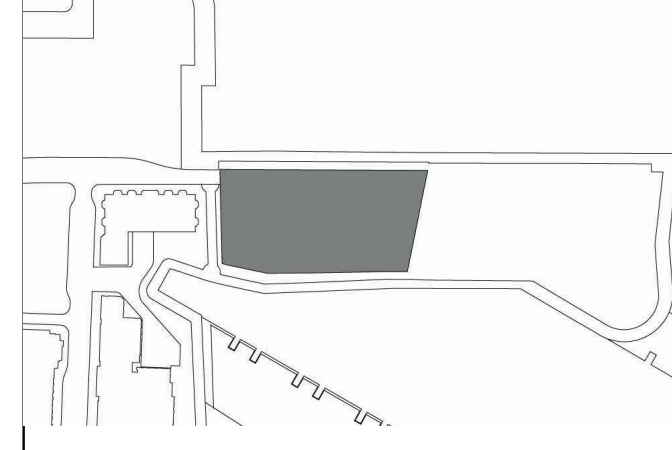


ELLIPSE TOWER

25 Park Lane South Jersey City, NJ 07310

Table with columns: NO., DATE, ISSUE OR REVISION. Shows revision history for the drawing.

KEY PLAN



CLIENT

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ARCHITECT OF RECORD

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POOL DESIGN

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Drawing Title

SPRINKLER SCHEDULES

SCALE: NO SCALE DATE: 05/20/2016

CHECKED BY: DS PROJECT NO: 15029

DRAWING NO.

SP-501

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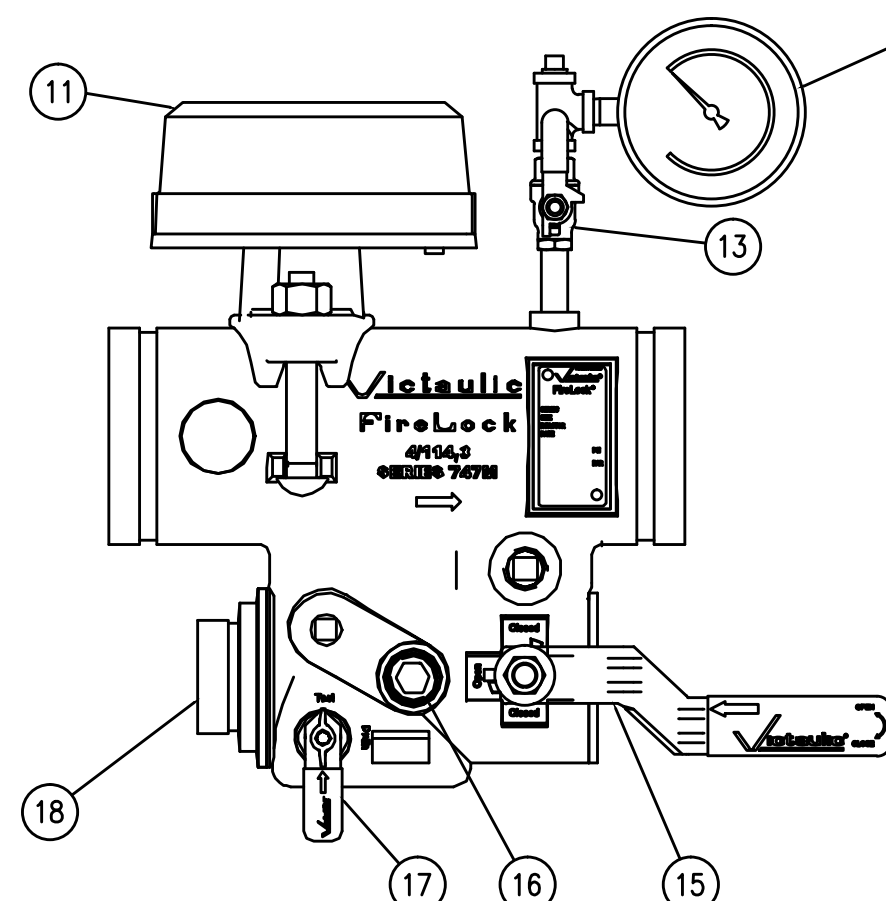
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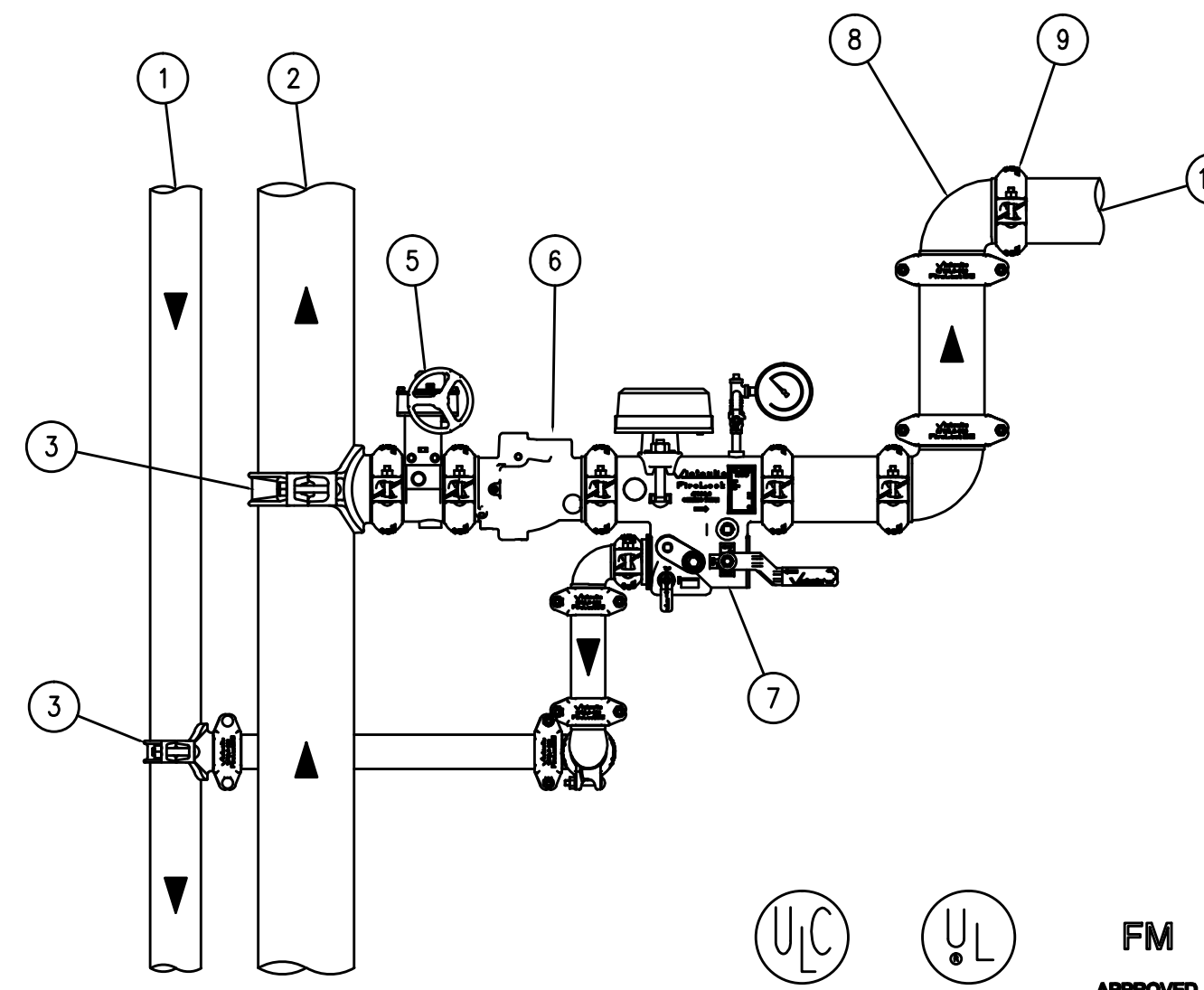
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PRODUCT LEGEND

- DRAIN RISER
- RISER
- VIC MECHANICAL TEE STYLE 920N
- NOT USED
- VIC FIRELOCK BUTTERFLY VALVE SERIES 705W
- VIC FIRELOCK CHECK VALVE SERIES 717
- VIC FIRELOCK ZONE CONTROL RISER MODULE SERIES 747M
- VIC FIRELOCK 90 DEG ELBOW No. 001
- VIC FIRELOCK EZ RIGID COUPLING STYLE 009 (OR) RIGID COUPLING STYLE 005
- TO SPRINKLER SYSTEM
- UL LISTED FM APPROVED FLOW SWITCH (SYSTEM SENSOR MODEL WFD)
- PRESSURE GAUGE
- ISOLATION VALVE FOR GAUGE
- NOT USED
- SHUT OFF VALVE (OFFSET HANDLE FOR ACCESS ON BOTH SIDES)
- SITE GLASS (VISIBLE FROM BOTH SIDES)
- TEST AND DRAIN VALVE (HANDLE ON BOTH SIDES)
- GROOVED DRAIN CONNECTION
- SEE VICTAULIC SUBMITTAL NUMBER 10.96



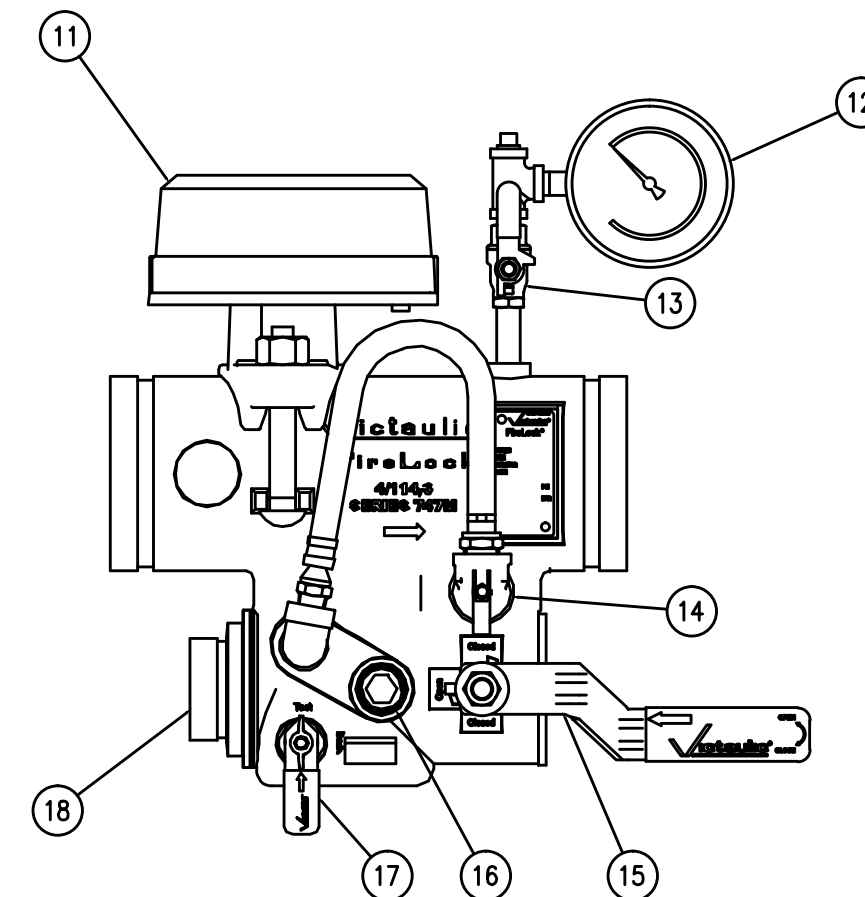
1 FIRELOCK ZONE CONTROL RISER MODULE
CAN BE MOUNTED IN THE HORIZONTAL OR VERTICAL UPFLOW POSITION



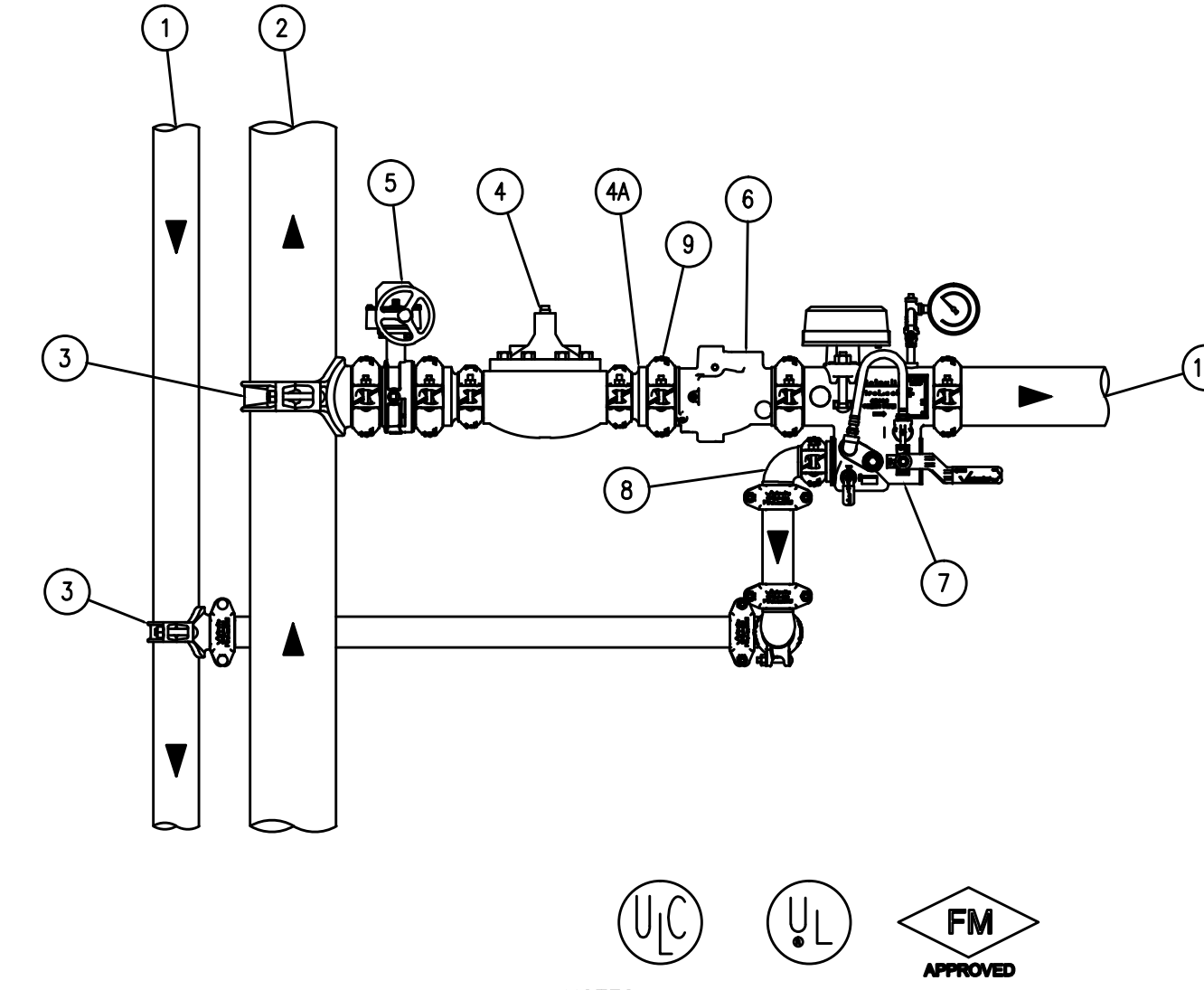
2 ZONE CONTROL RISER VALVE ASSEMBLY WITH ISOLATION VALVE & CHECK VALVE
NOT TO SCALE

PRODUCT LEGEND

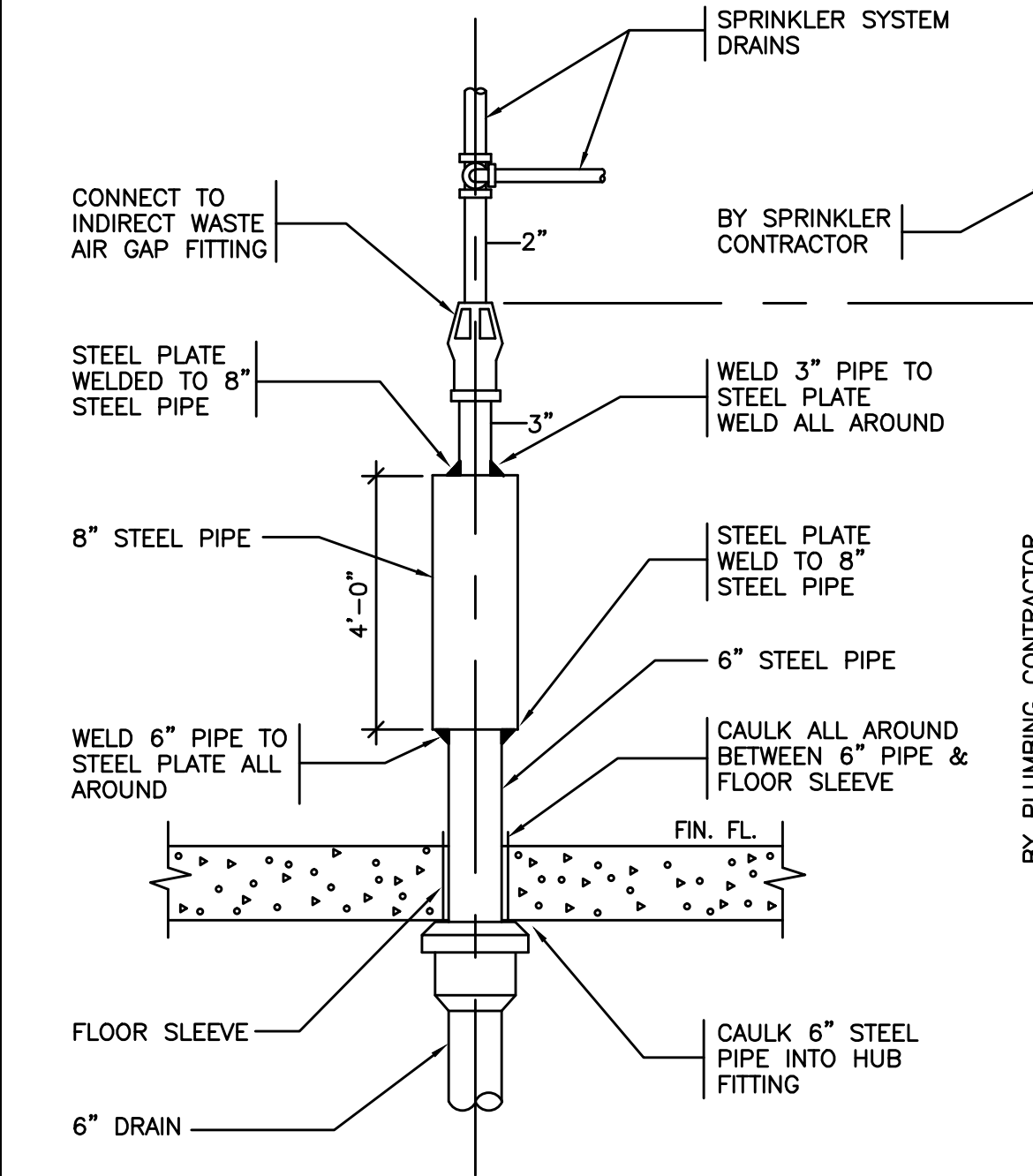
- DRAIN RISER
- RISER - VIC STYLE 75, 77 FLEXIBLE COUPLING FOR SEISMIC APPLICATION
- VIC MECHANICAL TEE STYLE 920N
- PRESSURE REDUCING VALVE (NOT VICTAULIC)
- VIC CONC. REDUCER No. 50
- VIC FIRELOCK BUTTERFLY VALVE SERIES 705
- VIC FIRELOCK CHECK VALVE SERIES 717
- VIC FIRELOCK ZONE CONTROL RISER MODULE SERIES 747M W/PSI RELIEF VALVE
- VIC FIRELOCK 90 DEG ELBOW No. 001
- VIC FIRELOCK EZ RIGID COUPLING STYLE 009H (OR) RIGID COUPLING STYLE 005
- TO SPRINKLER SYSTEM
- UL LISTED FM APPROVED FLOW SWITCH (SYSTEM SENSOR MODEL WFD)
- PRESSURE GAUGE
- ISOLATION VALVE FOR GAUGE
- PRESSURE RELIEF VALVE
- SHUT OFF VALVE (OFFSET HANDLE FOR ACCESS ON BOTH SIDES)
- SITE GLASS (VISIBLE FROM BOTH SIDES)
- TEST AND DRAIN VALVE (HANDLE ON BOTH SIDES)
- GROOVED DRAIN CONNECTION
- SEE VICTAULIC SUBMITTAL NUMBER 10.96



3 FIRELOCK ZONE CONTROL RISER MODULE W/ PSI RELIEF
CAN BE MOUNTED IN THE HORIZONTAL OR VERTICAL UPFLOW POSITION



4 ZONE CONTROL RISER VALVE ASSEMBLY WITH ISOLATION VALVE, CHECK VALVE, AND PRV

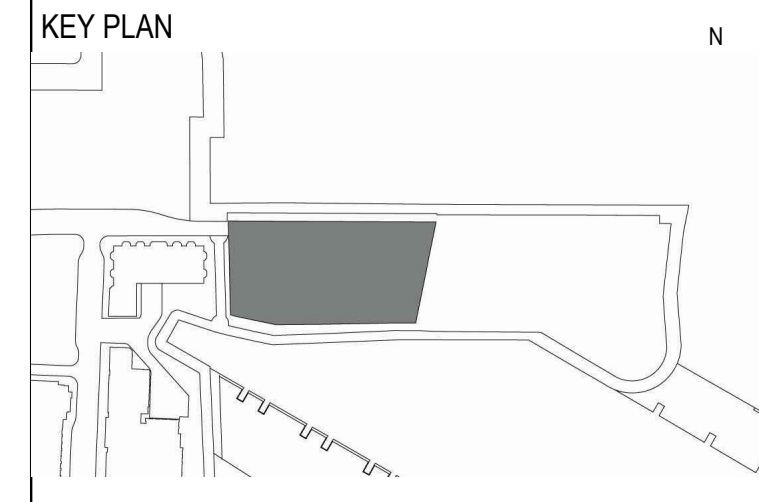


5 SPRINKLER DRAIN
F-601 N.T.S.

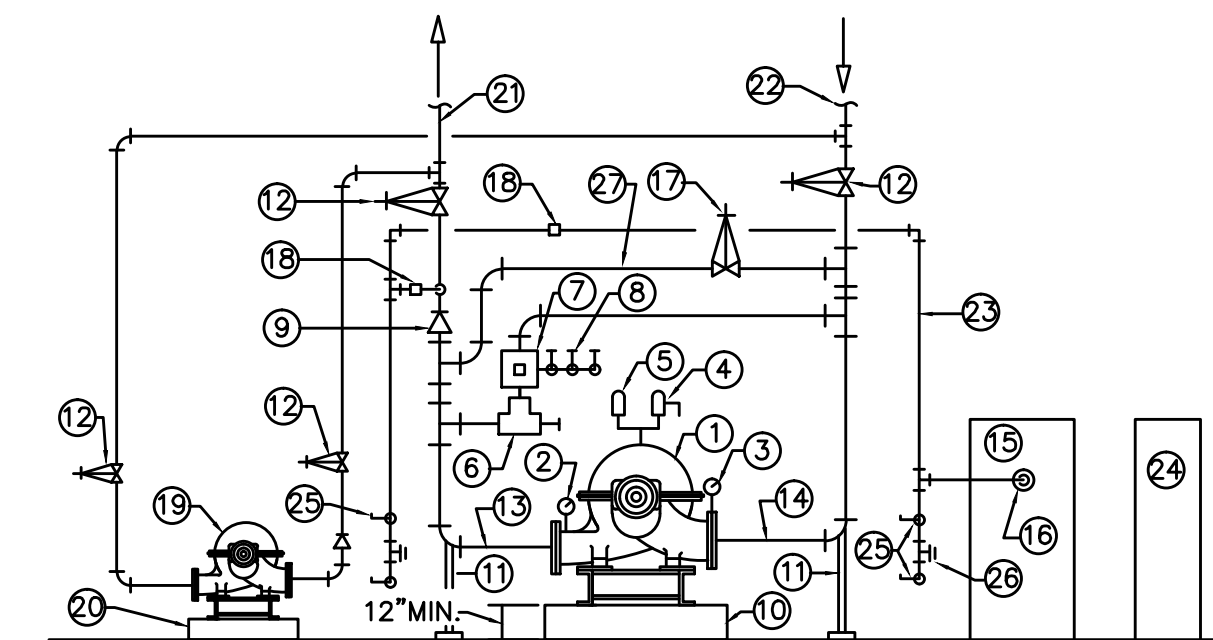


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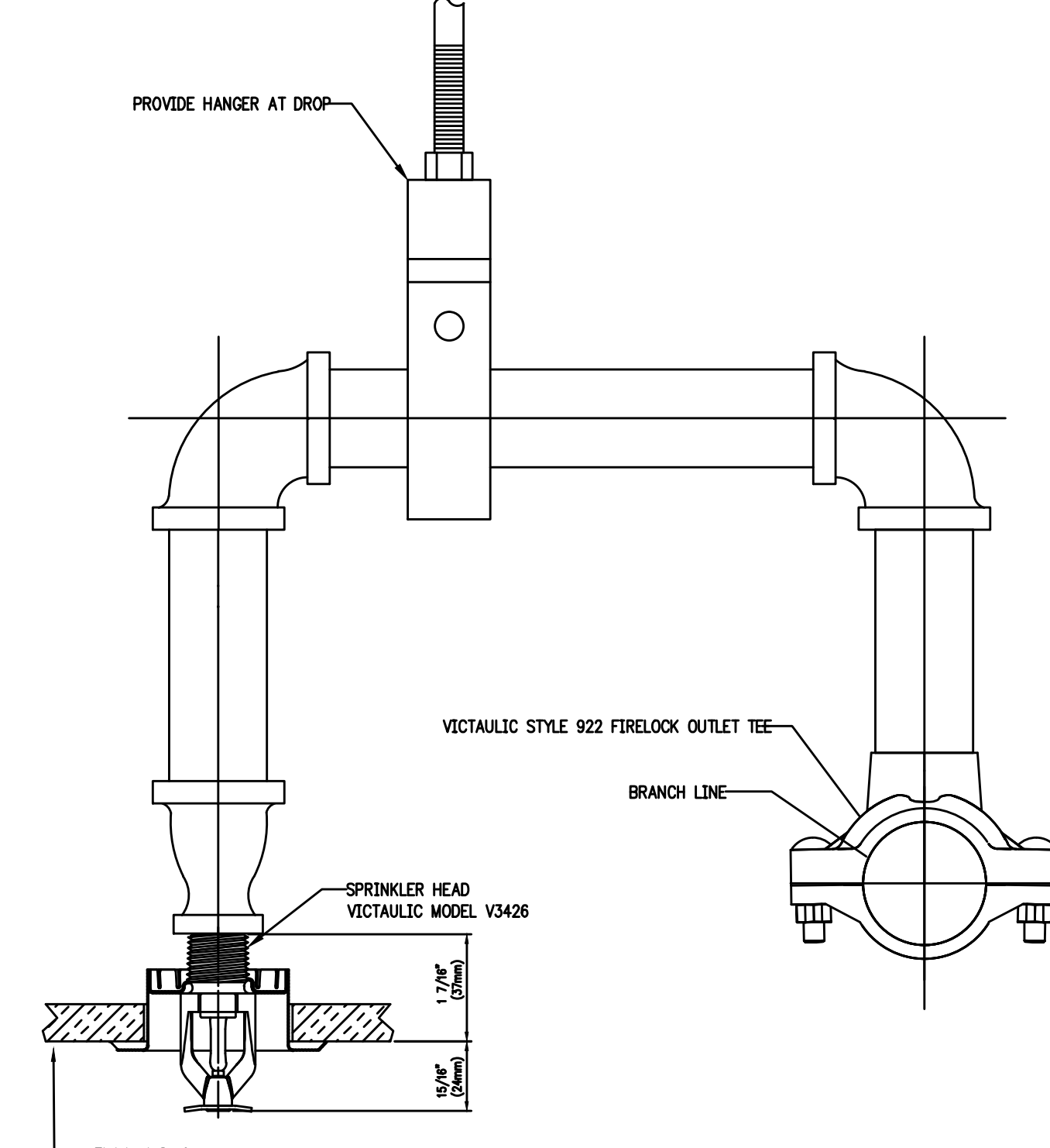
- CLIENT**
ELLIPSE BUILDING LLC
111 TOWN SQUARE PLACE, 15TH FLOOR
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100 FIFTH AVENUE, 10TH FLOOR
NEW YORK, NY 10011
- FAÇADE CONSULTANT**
FRANK SETA ASSOCIATES LLC
33 WEST 80TH STREET
NEW YORK, NY 10011
- STRUCTURAL ENGINEER**
MCNAMARA SALVIA
62 WEST 45TH STREET, 11TH FLOOR
NEW YORK, NY 10018
- PRECAST ENGINEER**
CIVILSMITH ENGINEERING, INC.
2100 SANDY DR., SUITE C
STATE COLLEGE, PA 16803
- CIVIL ENGINEER**
DRESDNER ROBIN
1 CHESTNUT PLAZA, SUITE 901
JERSEY CITY, NJ 07310
- MEP ENGINEER**
ICOR CONSULTING ENGINEERS
485C ROUTE 1 SOUTH, SUITE 200
ISELIN, NJ 08830
- VERTICAL TRANSPORTATION**
CBA ELEVATOR CONSULTANTS
190 MAIN STREET, SUITE 402
HACKENSACK, NJ 07601
- POOL DESIGN**
TRACE POOL DESIGN
333 WESTCHESTER AVENUE
WHITE PLAINS, NEW YORK 10604



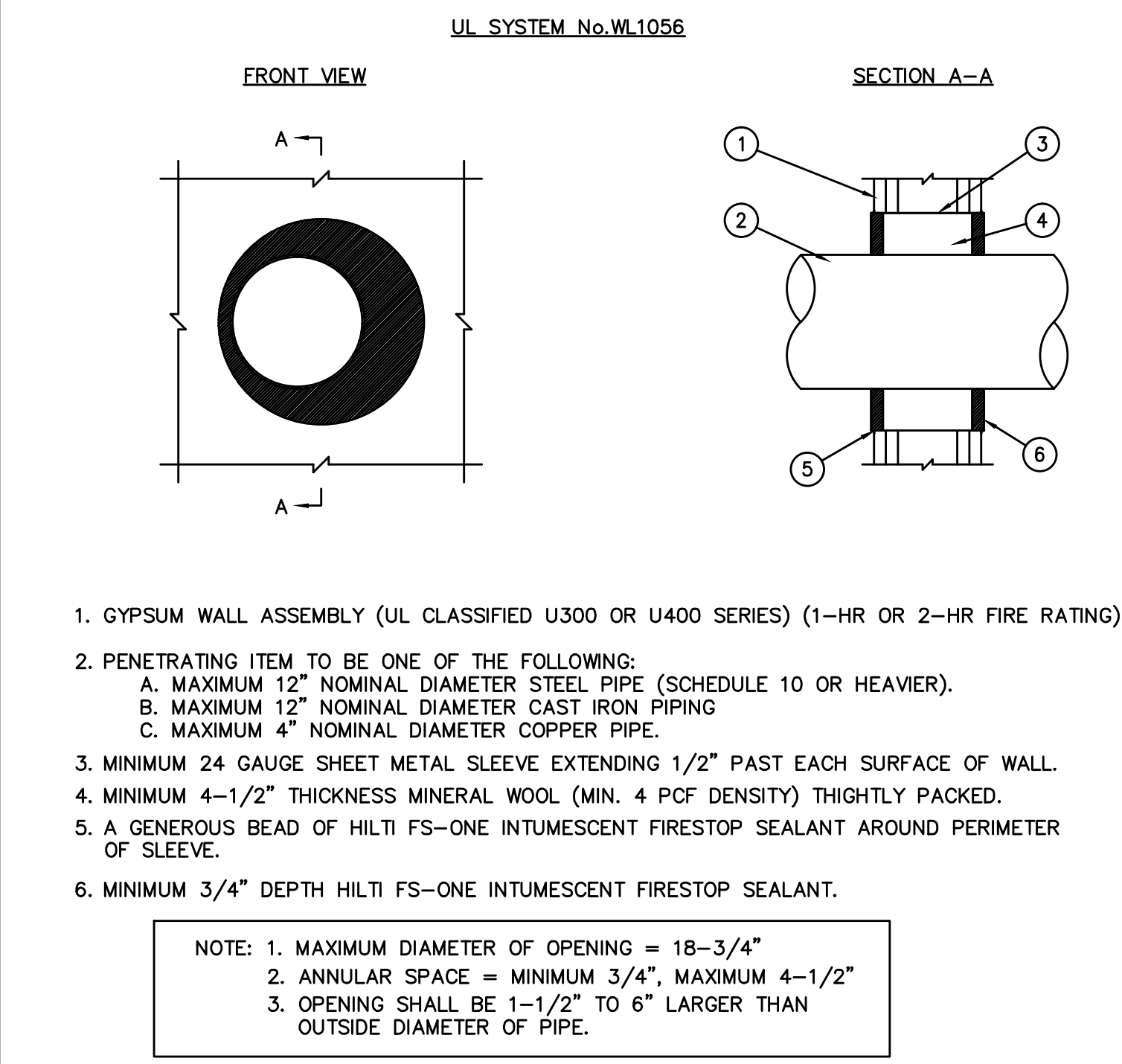
- AUTOMATIC FIRE PUMP
- DISCHARGE GAUGE
- SUCTION GAUGE
- CASING RELIEF VALVE
- PIPE DISCHARGE TO F.D.
- AIR RELEASE VALVE
- MAIN RELIEF VALVE
- SIGHT CONE & GLASS-W/ OPENING FOR TEST VALVES
- TEST VALVES
- CHECK VALVE (USE SPRING CHECK IN VERTICAL OR SWING CHECK IN HORIZONTAL POSITION)
- CONCRETE BASE MIN. 12" HIGH BASE TO EXTEND MIN. 4" BEYOND BEDPLATE
- SUPPORT ELBOW
- OS&Y GATE VALVE (W/ VALVED BY-PASS ON VALVES 6" & LARGER)
- CONCENTRIC DISCHARGE INCREASER
- (HOSE VALVE HEADER MAY BE INSTALLED IN THIS LOCATION IF DESIRED)
- ECCENTRIC SUCTION REDUCER
- CONTROL PANEL
- PRESSURE SWITCH
- O.S.&Y. GATE VALVE
- BRONZE CHECK VALVE W/ 3/32" ORIFICE IN CLAPPER
- JOCKEY PUMP
- CONCRETE BASE
- DISCHARGE TO SYSTEM
- SUCTION SUPPLY
- COPPER OR BRASS 1/2" PIPE SIZE
- JOCKEY PUMP CONTROLLER
- GLOBE VALVE
- 1/4" PLUG
- TEST BY-PASS

6 SCHEMATIC DIAGRAM OF AUTOMATIC FIRE PUMP
NOT TO SCALE

NOTE:
SUCTION AND DISCHARGE PIPING, FITTINGS, VALVES, ETC. TO BE SCREWED OR FLANGED TYPE

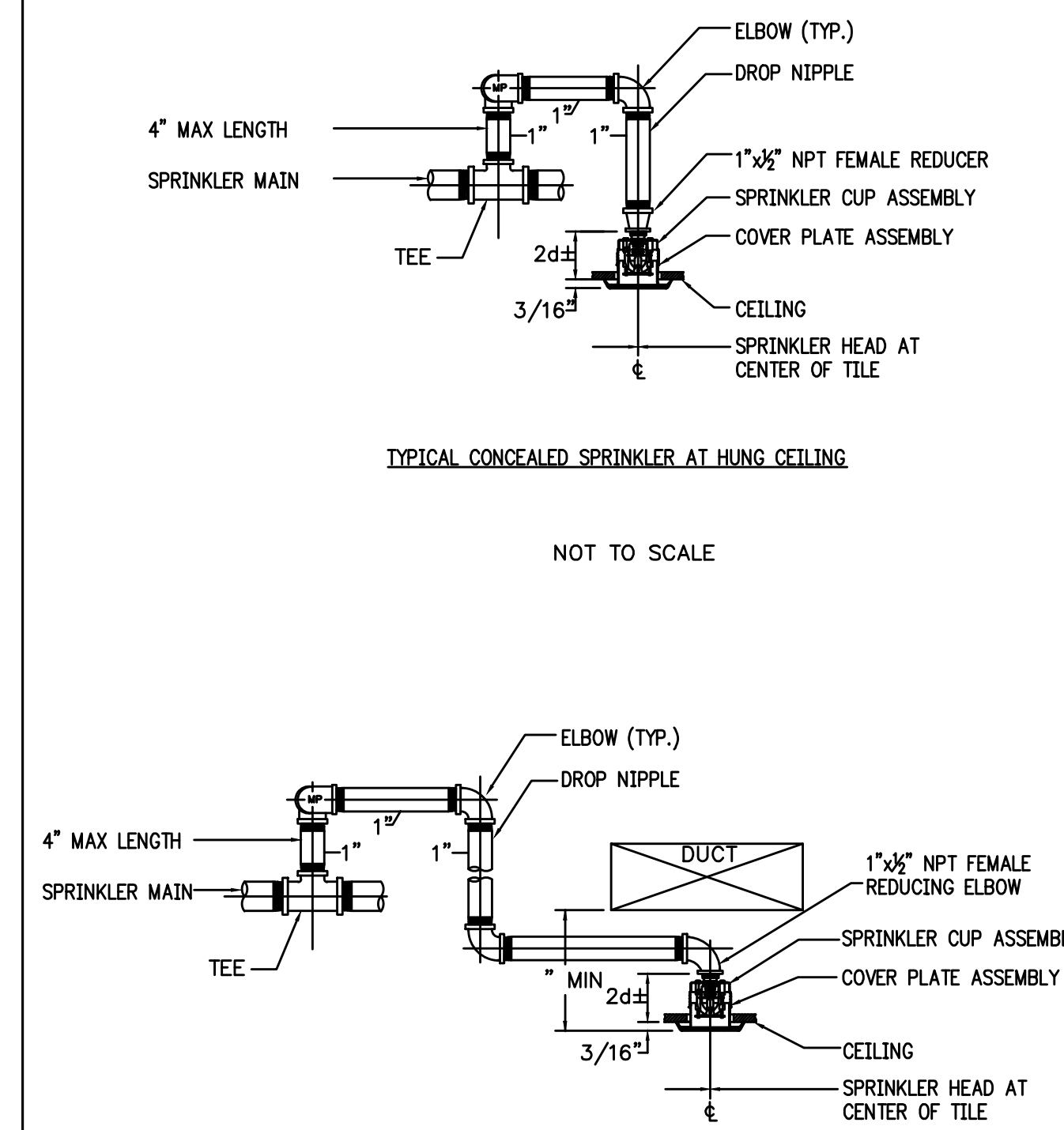


7 SPRINKLER HEAD CONNECTION DETAIL
NOT TO SCALE

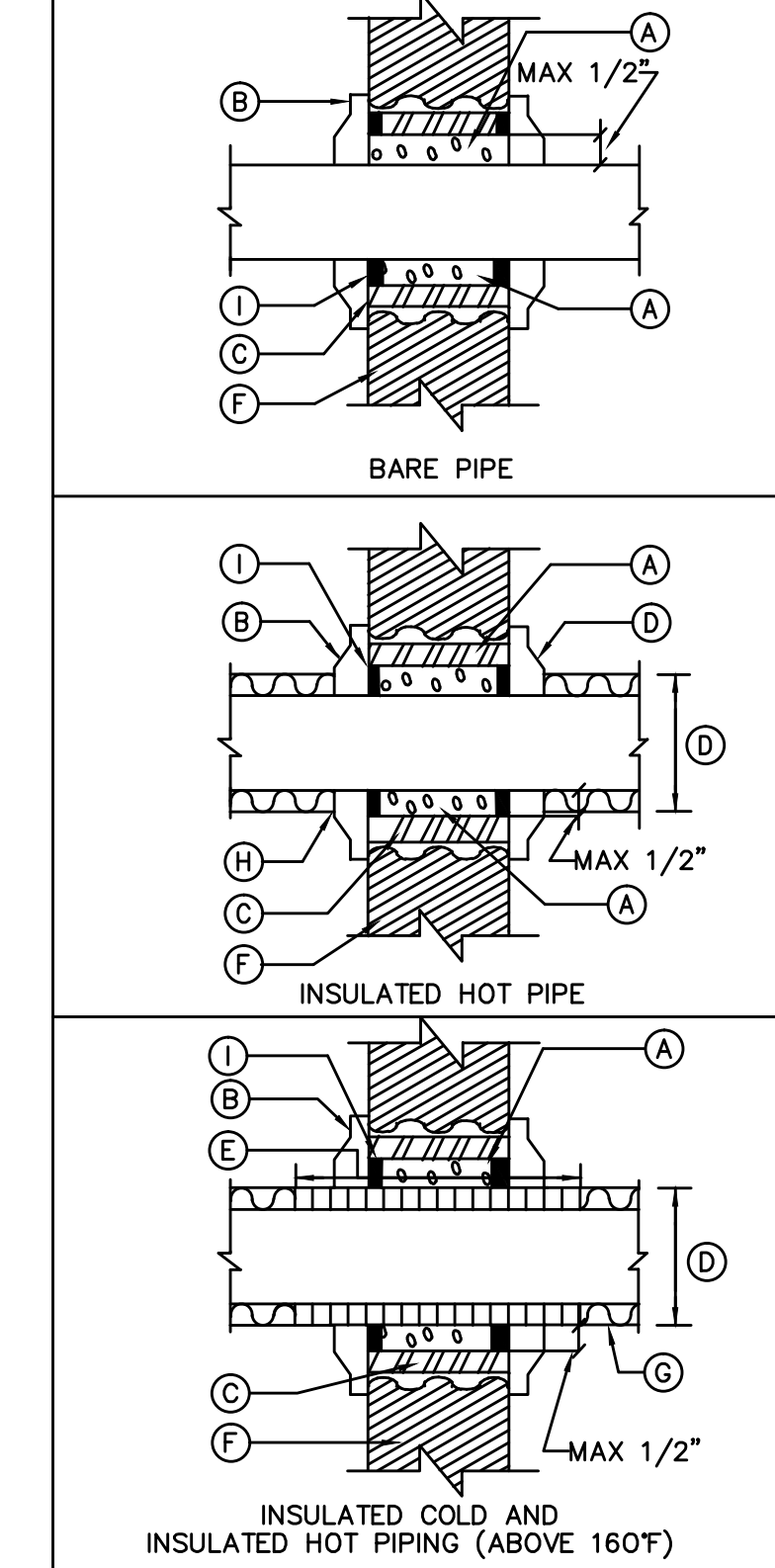


8 FIRESTOPPING OF METAL PIPE THROUGH 1-HR OR 2-HR RATED GYPSUM WALL.

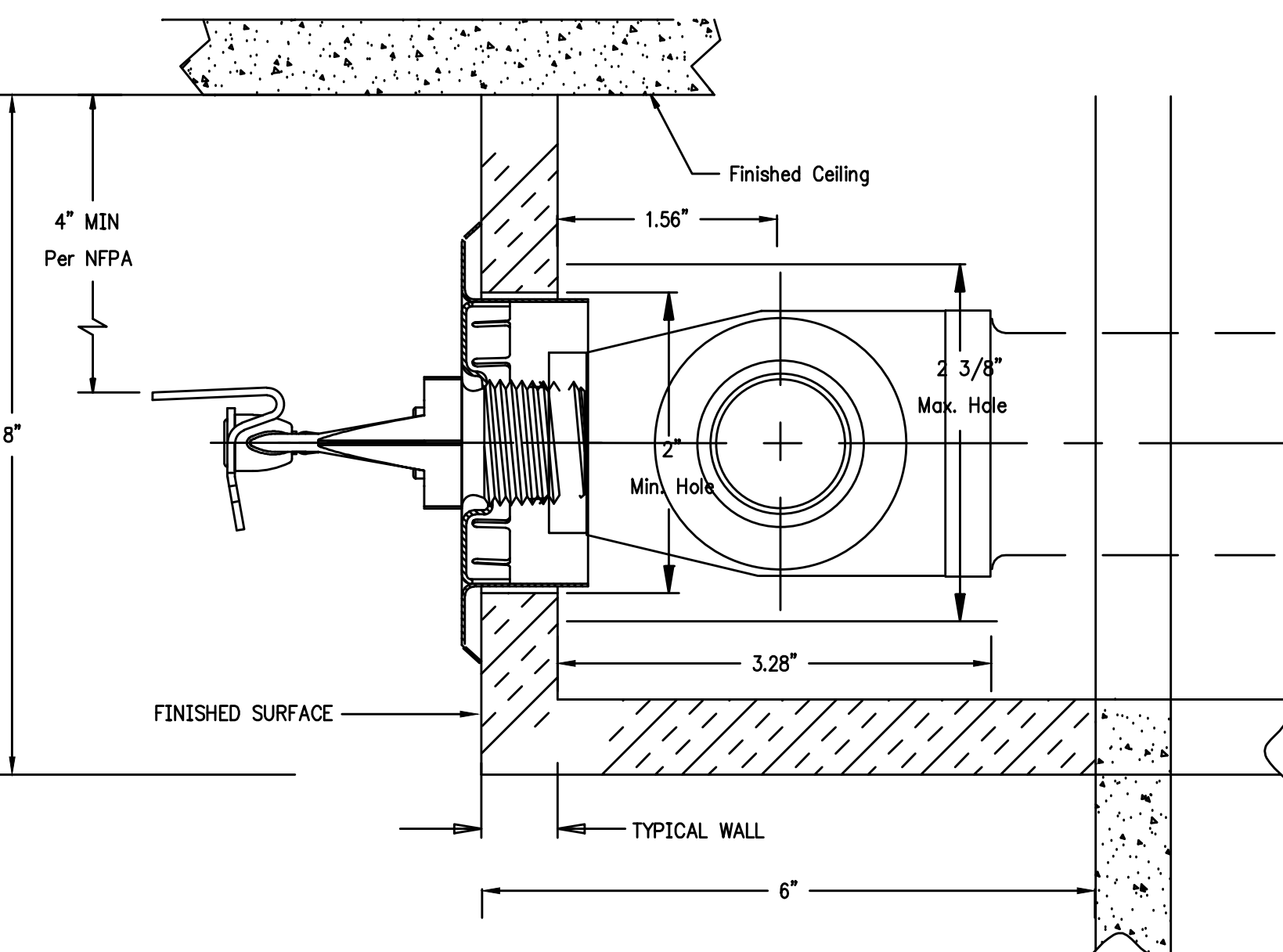
NOTE:
DETAIL IS BASED ON HILTI UL SYSTEM No. WL1056
OTHER MANUFACTURER WILL BE ACCEPTED.
REFER TO SPECIFICATIONS



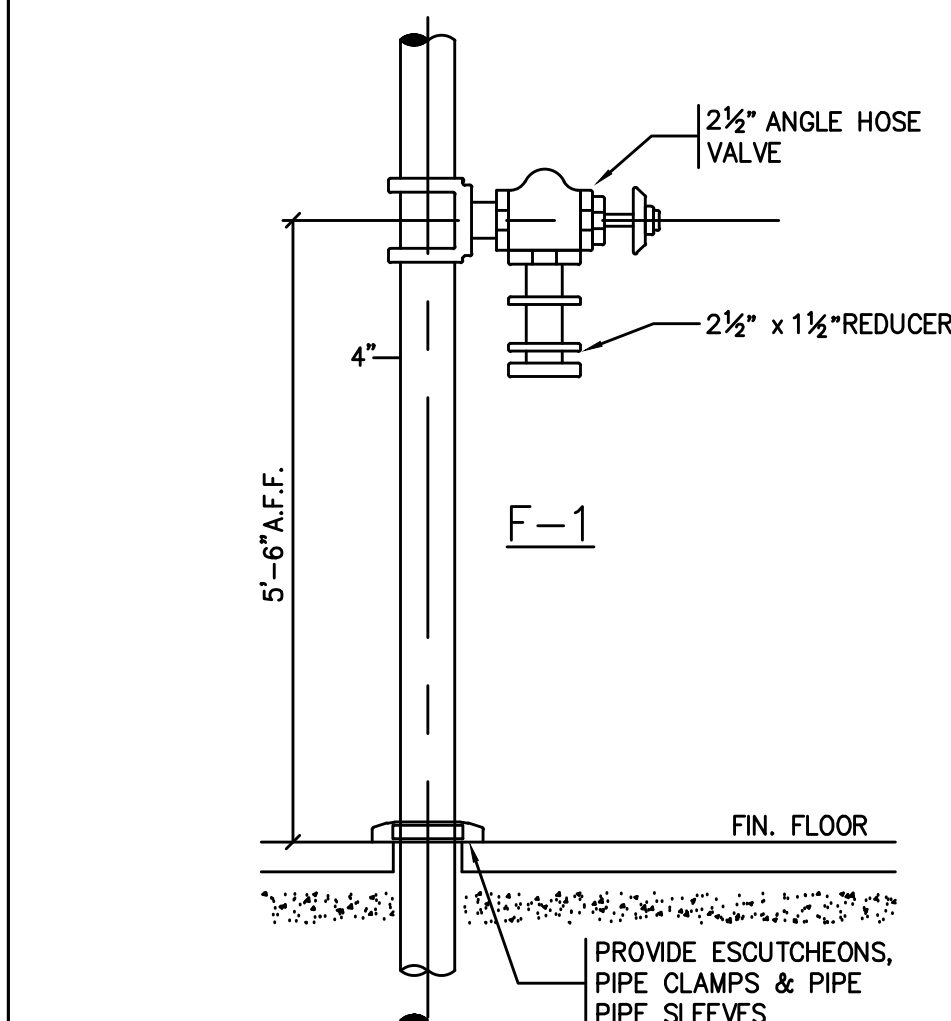
9 TYPICAL CONCEALED SPRINKLER BELOW DUCT AT HUNG CEILING
NOT TO SCALE



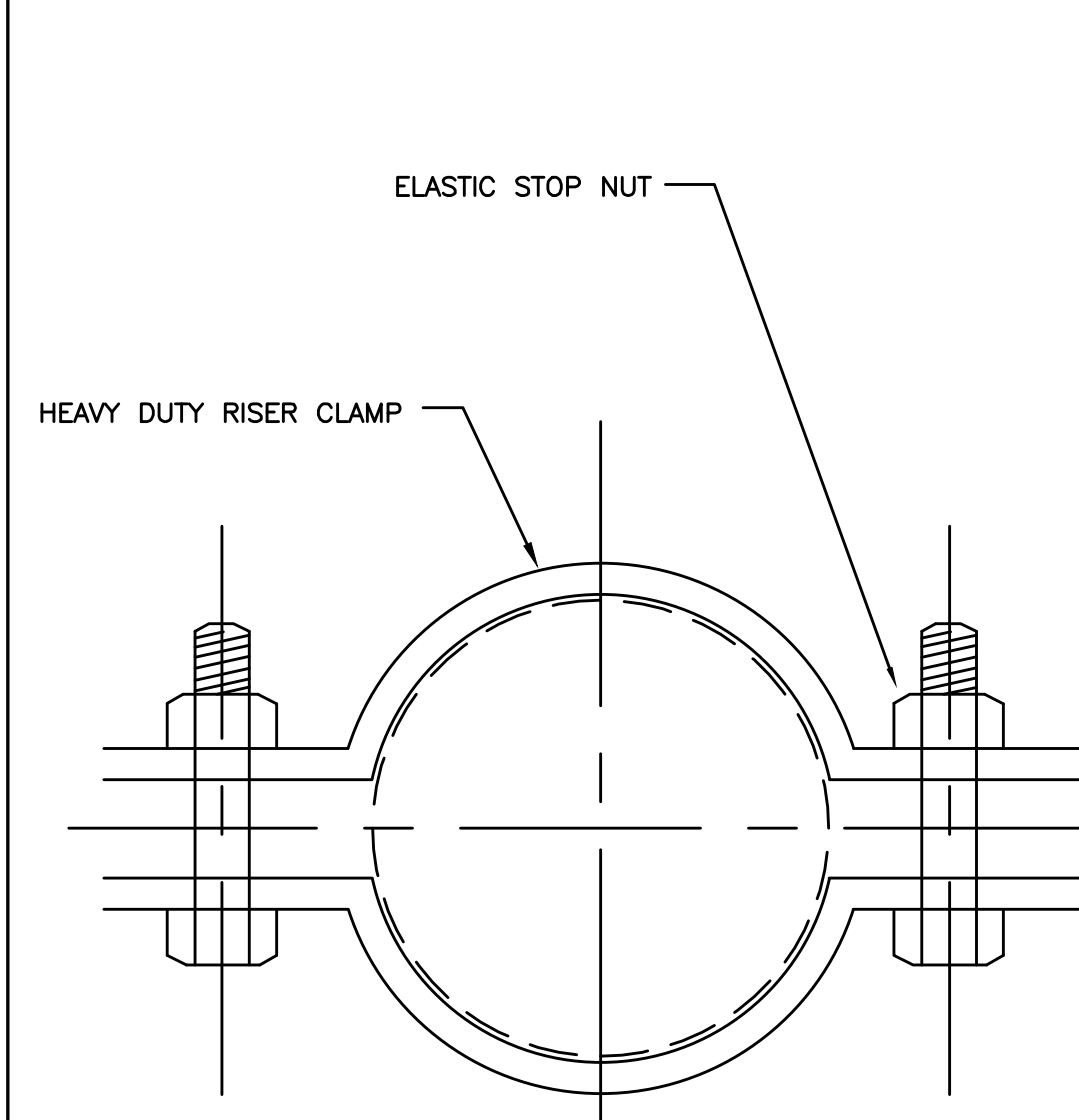
- 10**
F-601
- 11**
F-601
- 12**
F-601
- DETAIL OF PIPING PIERCING FIRE RATED PARTITIONS, WALLS AND FLOORS**
NO SCALE
- (A) ALL SPACES PACKED FULL DEPTH WITH MINERAL WOOL OR OTHER EQUALLY APPROVED FIRE RESISTIVE MATERIAL (ASBESTOS OR FIBERGLASS SHALL NOT BE USED)
- (B) FIRE RESISTANT FOAM SEALANT CHASE FOAM CTC P2-B55 (NYC MEA#58-79 M#1&11 MAY BE USED. INSTALLATION AS PER MANUFACTURER.)
- (C) ESCUTCHEON BOTH SIDES
- (D) SLEEVE
- (E) DIAMETER OF INSULATED PIPE
- (F) ANHYDROUS CALCIUM SILICATE INSULATION THRU SLEEVE
- (G) FIRE RATED PARTITION WALL OR FLOOR
- (H) FIBERGLASS INSULATION
- (I) TERMINATE INSULATION AT ESCUTCHEON
- (J) 1/2" DEPTH FIRE STOP FINISH SEALANT



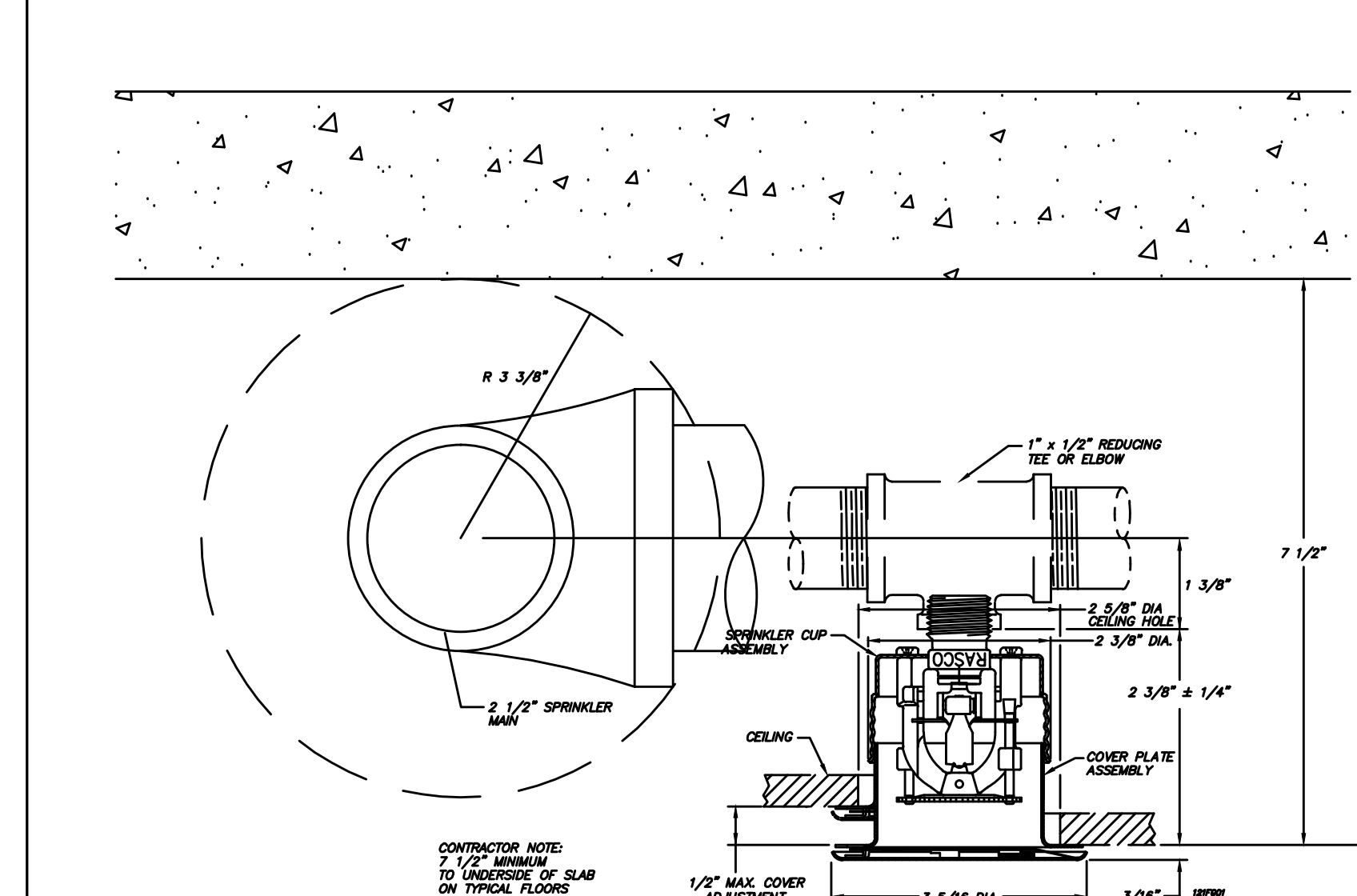
11 TYPICAL HORIZONTAL SIDEWALL SPRINKLER HEAD IN CEILING SOFFIT
N.T.S.



12 FIRE HOSE VALVE ASSEMBLY F-1
SCALE: NONE



13 HEAVY DUTY RISER CLAMP
NO SCALE



14 TYPICAL SPRINKLER SPACE REQUIREMENT
SCALE: NONE

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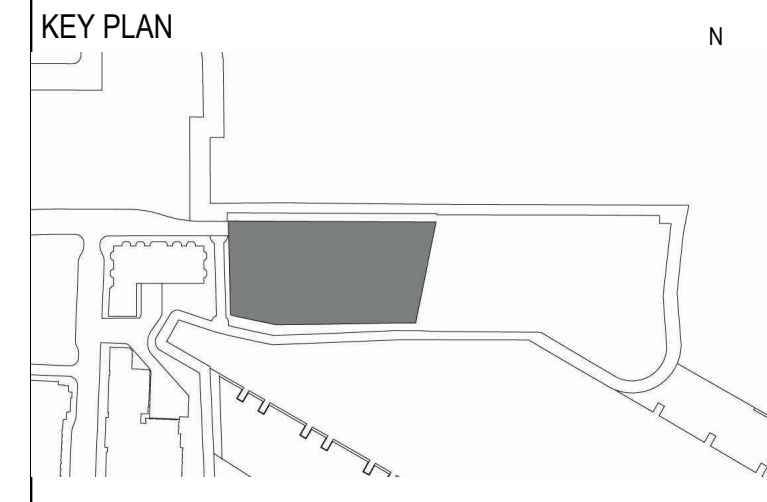
B

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ELLIPSE TOWER
25 Park Lane South
Jersey City, NJ 07310

NO.	DATE	ISSUE OR REVISION
11/20/15		ISSUED FOR BID
02/05/16		ISSUED FOR CONSTRUCTION
05/20/16		ISSUED FOR CONSTRUCTION



CLIENT
ELLIPSE BUILDING LLC
 111 TOWN SQUARE PLACE, 15TH FLOOR
 JERSEY CITY, NJ 07310

ARCHITECT OF RECORD
HLW INTERNATIONAL
 122 MAIN STREET
 MADISON, NJ 07940

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ARQUITECTONICA
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 190 MAIN STREET, SUITE 402
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POOL DESIGN
TRACE POOL DESIGN
 333 WESTCHESTER AVENUE
 WHITE PLAINS, NEW YORK 10604

Engineer of Record

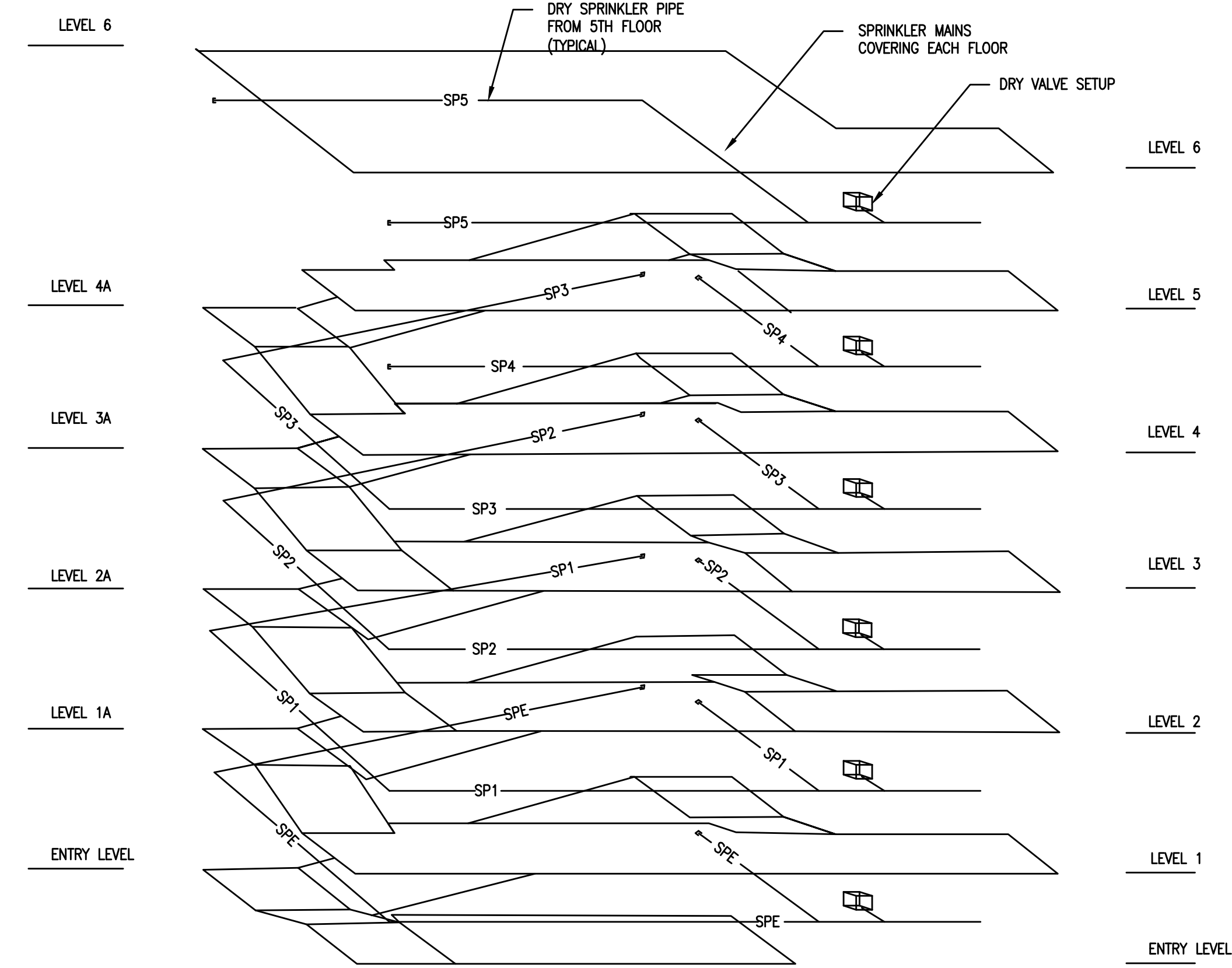
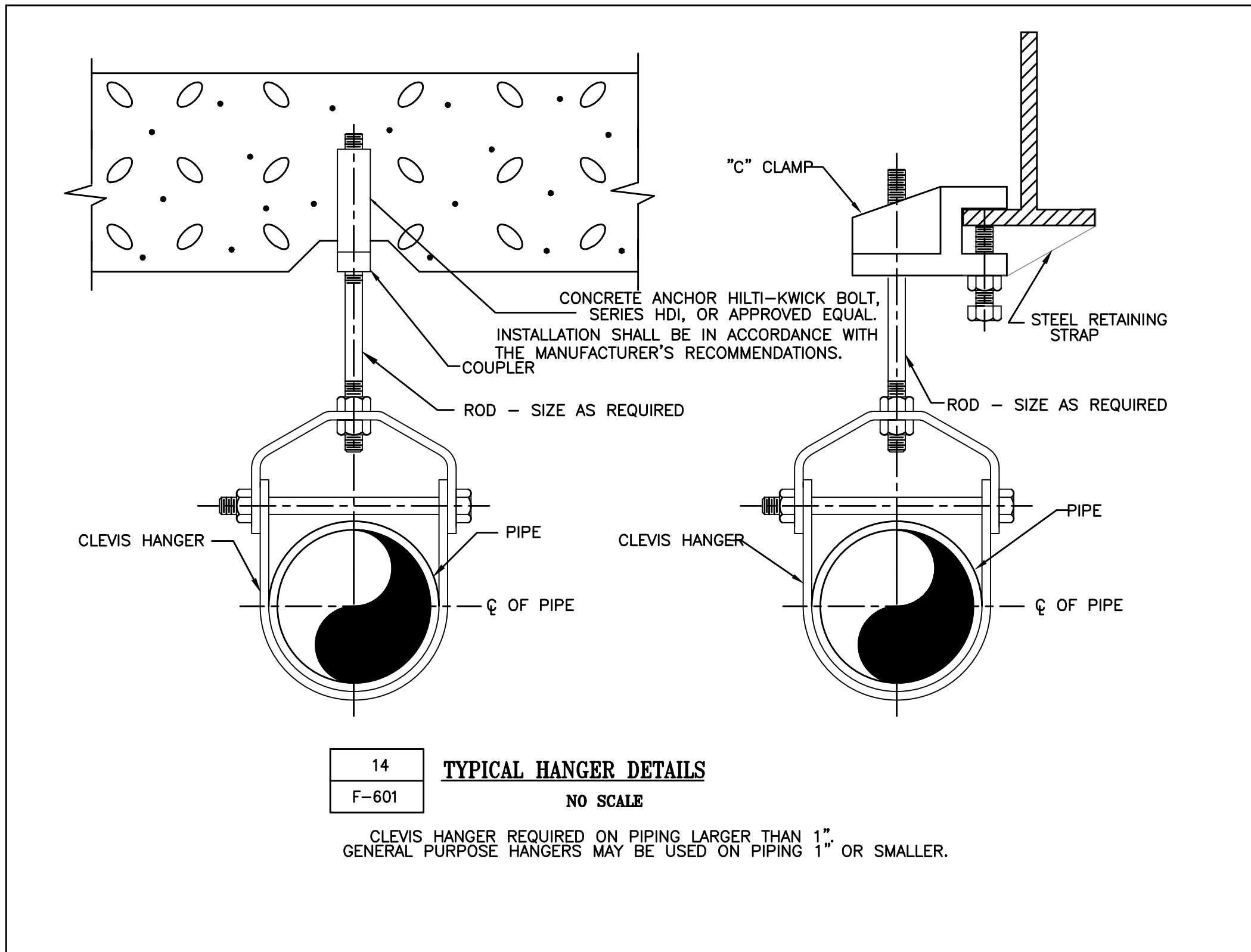
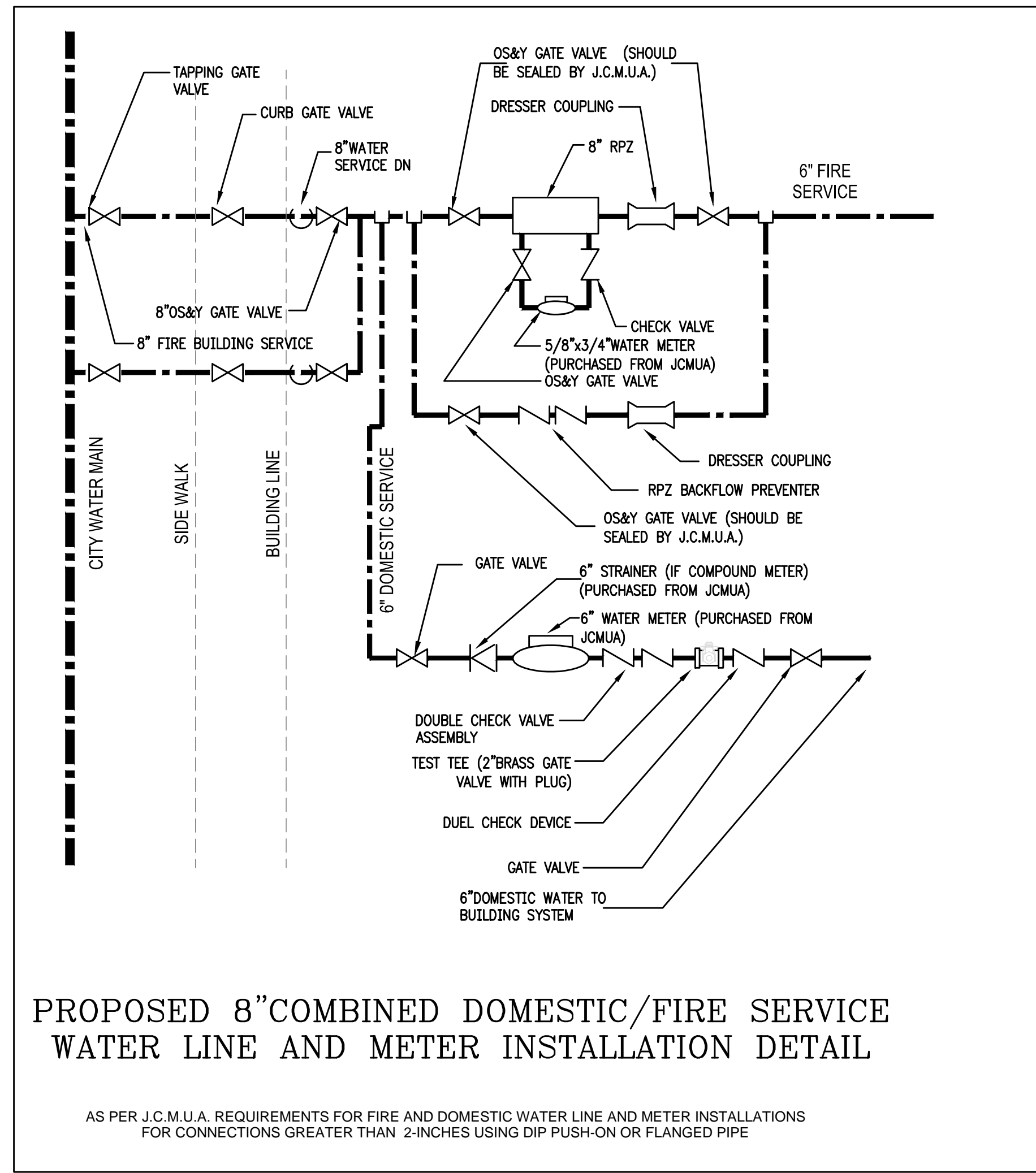
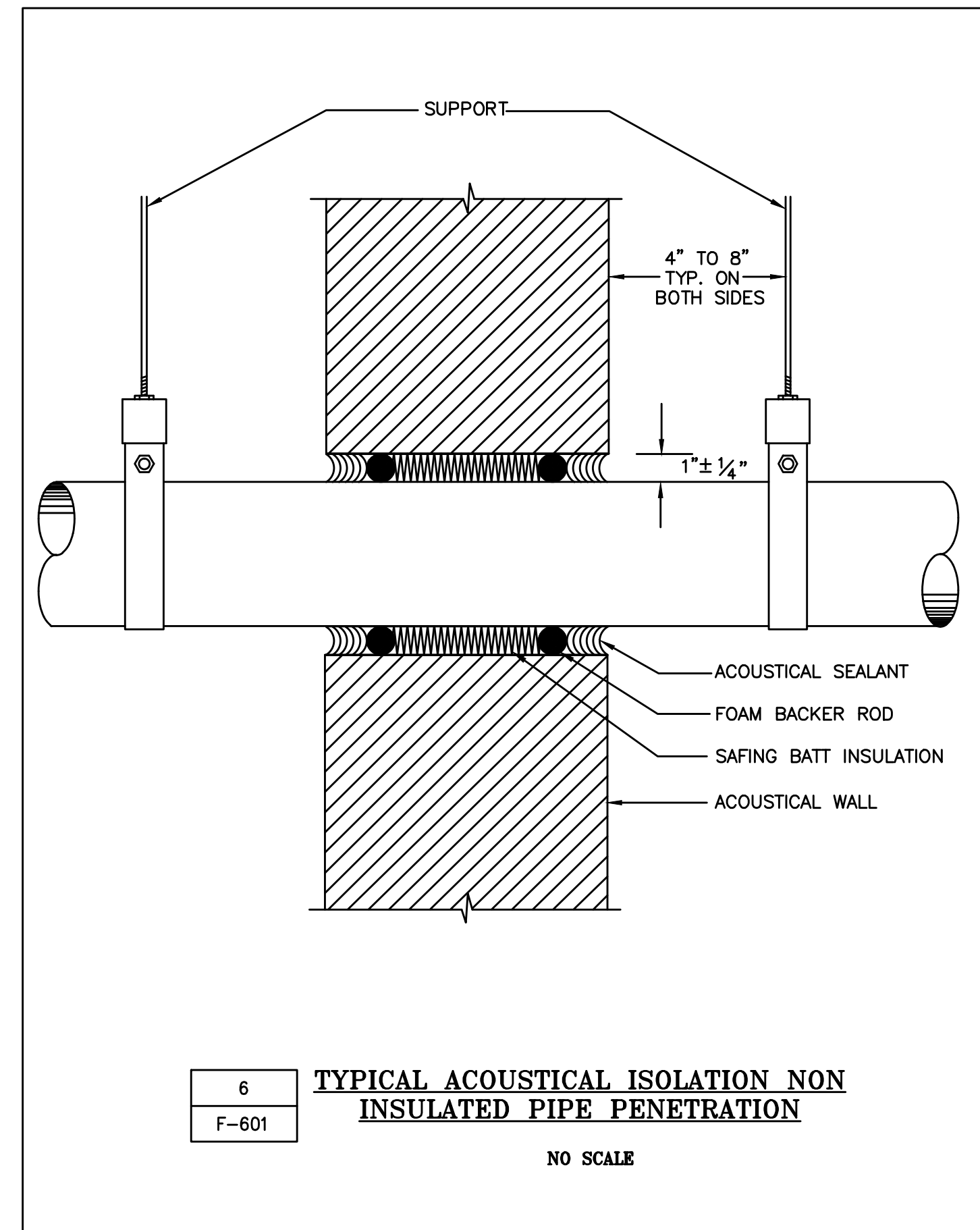
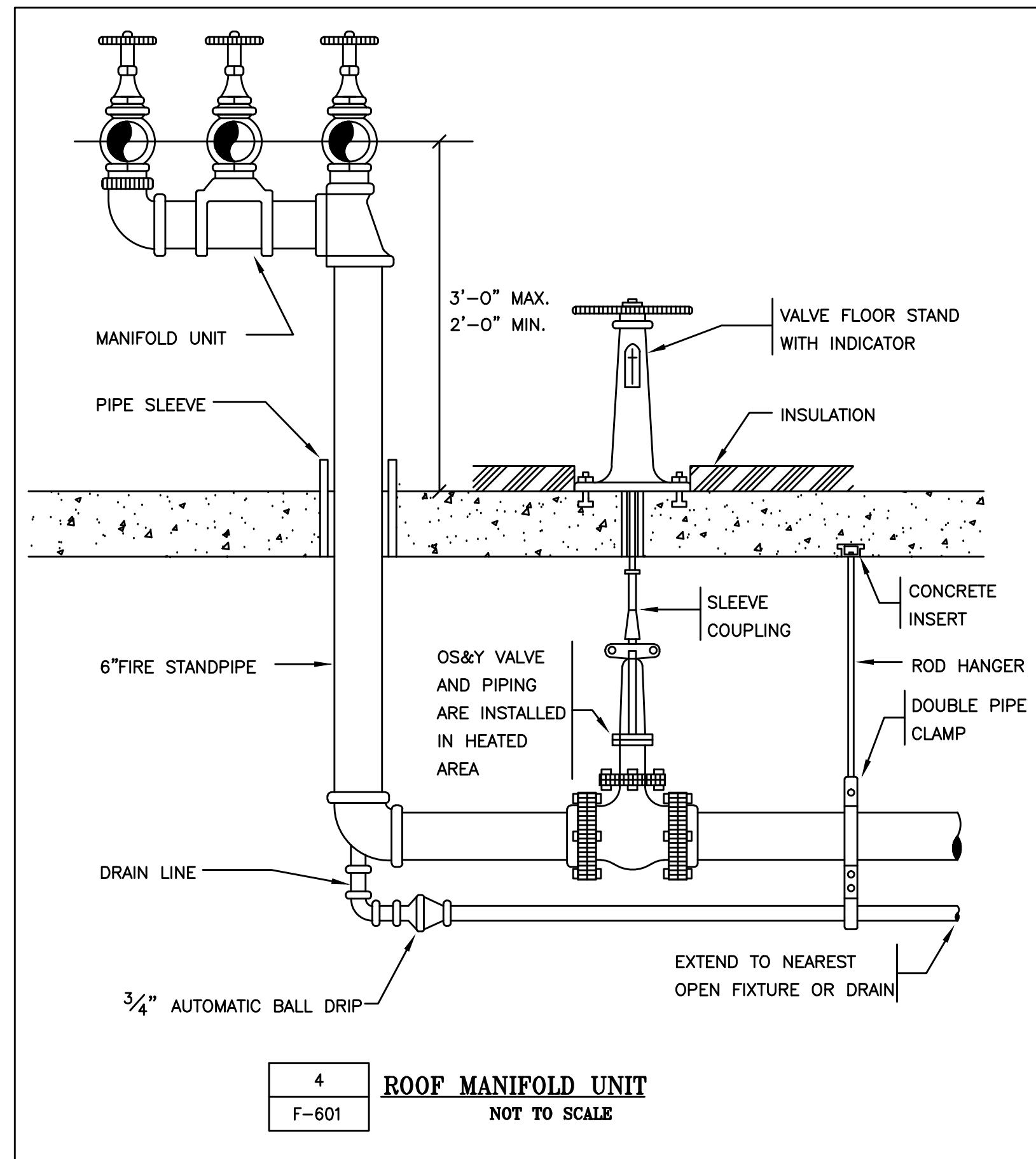
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 Iselin, NJ 08830
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 f: 908-272-4440
 website: www.icorassociates.com
 JOHN L. OSKWAREK, PROFESSIONAL ENGINEER
 NJ License No: 24GE044134000
 NJ Certificate of Authorization No: 24GA28188000

Drawing Title
SPRINKLER DETAILS

SCALE: NO SCALE	DATE: 05/20/2016
CHECKED BY: DS	PROJECT NO. 15029

DRAWING NO.

SP-602



Drawing Name: G:\0541\PLANS\Fire Protection\0541-SP-602.dwg -Mon, 23 May 2016 - 12:01 pm

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