BID PACKAGE #2-REBID & BID PACKAGE #3: ADDENDUM NUMBER 1

MILWAUKEE COUNTY CENTRAL FLEET MAINTENANCE BUILDING MODIFICATION: OFFICE ADDITION AND RENOVATION: BID PACKAGE #2-REBID& BID PACKAGE #3
Site #365, Bldg. #5600
10320 W. Watertown Plank Rd.
Wauwatosa, Wisconsin 53226

Project Number: O230-13636

Date of Addendum: May 20, 2014

This Addendum to the Contract Documents is issued to modify, explain or correct the original documents, dated May 2, 2014, and is hereby made part of the Contract Documents.

MODIFICATIONS & CLARIFICATIONS TO SPECIFICATIONS

1. Project Manual Volume 1: Bid Package #2-Rebid & Bid Package #3:

   a. 00800 Supplementary Conditions: page 00800-2, 3.7 PERMITS, FEES AND NOTICES, **REVISE** "*Contractor for Contract-1 shall secure and pay cost of permits*" **TO** "*Contractors for Contract-2 and Contract-3 or Contractor for Contract-4, shall secure and pay cost of permits*"

   b. Specification Section 01330 Submittal Procedures: page 01330-2, part 1.3 CONSTRUCTION PROGRESS SCHEDULES, A, **REVISE** "*Contract 1 – Foundation Contractor shall prepare and be responsible for construction schedule*" **TO** "*Contractors for Contract-2 and Contract-3 or Contractor for Contract-4 shall prepare and be responsible for construction schedule*".

   c. Specification Section 01700 Execution Requirements: page 01700-5, part 1.12 TESTING, ADJUSTING AND BALANCING, A, **CLARIFICATION ADD,** "*unless noted otherwise in technical specifications*".

2. Project Manual Volume 2: Bid Package #2-Rebid:

   a. Specification Section 08 41 13 Aluminum Framed Entrances and Storefronts: page 084113-11, part 2.9 ALUMINUM FINISHES, A, 1, **REVISE** specification as follows,

      "*1. Color and Gloss: Match architects sample as a painted Champagne color to match a color anodic finish of champagne. Architects sample is Effco color Ultradize Mica Champagne A13.*"

3. Project Manual Volume 3: Bid Package #3:

   a. Specification Section 08 80 00 Glazing: page 088000-11, part 3.8 MONOLITHIC GLASS SCHEDULE, C, **REVISE** specification as follows,

      "C. Glass Type GL-5: Clear Fully Tempered Float Glass.
      1. *Minimum Thickness: ¼" inch thick (6mm)*
      2. *Safety Glazing Required"*

b. Specification Section 21 13 19 Pre-action Double Interlock Integrated Sprinkler system: **REMOVE** this specification section from the project.

4. Project Manual Volume 4: Bid Package #3:

   a. Specification Section 22 05 14 Plumbing Specialties: **ADD** this specification section to the project (Specification attached).

MODIFICATIONS & CLARIFICATIONS TO DRAWINGS

1. Drawings: Bid Package #2:

   a. Drawing Sheet A101 dated 5/2/14: **REVISE** Demolition Key Note "8" as follows,

      "REMOVE EXISTING WINDOWS, FRAMES, HARDWARE, WINDOW SILL, SOFFIT, PLASTER RETURNS AND ACCESSORIES. ALSO REMOVE ALL WINDOW TREATEMENTS AND RELATED BRACKETS AND ANCHORS. THE WINDOWS AND FRAMES WILL BE REMOVED BY ABATEMEN CONTRACTOR. GC IS RESPONSIBLE FOR SCHEDULE COORDINATION OF REMOVAL AND ALL REQUIRED TEMPORARY ENCLOSURES."

   b. Drawing Sheet S201 dated 5/2/14: **REVISE** Slab on Grade Text Notes from *"COORDINATE WITH UNDERFROUND UTILITIES OF BID PACKAGE 2"* **TO** *"COORDINATE WITH UNDERFROUND UTILITIES OF BID PACKAGE 3"*

2. Drawings: Bid Package #3:

   a. Drawing Sheet A121 dated 5/2/14: **REVISE** Demolition Key Note "8" as follows,

      "REMOVE EXISTING TRANSACTION WINDOW/COUNTER, FRAMES, HARDWARE, WINDOW SILL, SOFFIT, PLASTER RETURNS AND ACCESSORIES. ALSO REMOVE ALL WINDOW TREATEMENTS AND RELATED BRACKETS AND ANCHORS. TRANSACTION WINDOW/COUNTER IS TO BE TEMPORARILY REINSTALLED INTO TEMPORARY PARTITION AS INDICATED IN DRAWINGS."

   b. Drawing Sheet A802 dated 5/2/14: **REVISE** Door Schedule as follows,

      i. Door 151-1: **REVISE** door height from 2'-8" **TO** 6'-8".
      ii. Door 151-2: **REVISE** door height from 2'-8" **TO** 6'-8".
      iii. **REMOVE** door schedule title "Door and Frame Schedule Bid Package 3 Phase 3" from the project.

   c. Replace the following Drawing Sheets dated 3/7/14 with the ones dated 5/16/14 (Drawings attached).

      i. Electrical Sheet E002, dated 5/16/14
      ii. Electrical Sheet E100, dated 5/16/14
      iii. Electrical Sheet E101, dated 5/16/14
      iv. Electrical Sheet E102, dated 5/16/14
      v. Electrical Sheet E201, dated 5/16/14
      vi. Electrical Sheet E202, dated 5/16/14

vii. Electrical Sheet E203, dated 5/16/14
viii. Electrical Sheet E301, dated 5/16/14
ix. Electrical Sheet E302, dated 5/16/14
x. Electrical Sheet E303, dated 5/16/14
xi. Electrical Sheet E601, dated 5/16/14
xii. Electrical Sheet E602, dated 5/16/14
xiii. Electrical Sheet E603, dated 5/16/14

End of Addendum No. 1

SECTION 22 05 14
PLUMBING SPECIALTIES

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes
1. Floor drains.
2. Roof drains.
3. Cleanouts.
4. Backflow preventers
5. Water hammer arrestors.
6. Miscellaneous plumbing specialties.

B. Related Sections
1. Applicable provisions of Division 01 shall govern all work under this Section.
2. Section 22 05 00 – Basic Plumbing Materials and Methods: Material and method requirements.
3. Section 22 11 00 - Facility Water Distribution.
4. Section 22 13 00 - Facility Sanitary Sewerage.
5. Section 22 14 00 - Facility Storm Drainage.

1.2 REFERENCES

A. American Society of Mechanical Engineers: (ASME)
1. ASME A112.14.1 - Backwater Valves
2. ASME A112.21.1M - Floor Drains.
3. ASME A112.21.2M - Roof Drains.

B. American Society of Safety Engineers: (ASSE)
1. ASSE 1001 - Pipe Applied Atmospheric Type Vacuum Breakers.
2. ASSE 1010 - Water Hammer Arrestors.
3. ASSE 1011 - Hose Connection Vacuum Breakers.
4. ASSE 1012 - Backflow Preventers with Intermediate Atmospheric Vent.
5. ASSE 1013 - Reduced Pressure Principle Backflow Preventers.
6. ASSE 1018 - Trap Seal Primer Valves.
7. ASSE 1019 - Wall Hydrants, Frost Proof Automatic Draining, Anti-Backflow Type.

C. ASTM International: (ASTM)
1. ASTM A48 – Specification for Gray Iron Castings.
2. ASTM A443 - Specification for Joints for Circular Concrete Sewer and Culvert Pipe, Using Rubber Gaskets.
3. ASTM A478 - Specification for Precast Reinforced Concrete Manhole Sections.
4. ASTM C923 - Standard Specification for Resilient Connectors Between Reinforced Concrete Manhole Structures, Pipes and Laterals.
5. ASTM C990 - Specification for Joints for Concrete Pipe, Manholes and Precast Box Sections Using Preformed Flexible Joint Sealants.

D. Plumbing and Drainage Institute: (PDI)
1. PDI-WH-201 - Water Hammer Arrestors.

1.3 SUBMITTALS

A. Division 01 – General Requirements: Requirements for submittals.

B. Shop Drawings: Include data concerning dimensions, capacities, materials of

construction, ratings, certifications, weights, and manufacturer's performance limitations.

C. Submit manufacturer's installation requirements.

1.4 QUALITY ASSURANCE

A. Plumbing products requiring approval by State and local authorities must be approved at time of shop drawing submission.

PART 2 PRODUCTS

2.1 FLOOR DRAINS

A. Manufacturers:
1. Josam Company.
2. Jay R. Smith Manufacturing Company.
3. Tyler Pipe/Wade Division.
4. Watts Water Technologies.
5. Zurn Plumbing Products.
6. Or approved equal.

B. Reference Plumbing Drain and Cleanout Schedule on Drawings.

2.2 FLOOR SINKS

A. Manufacturers:
1. Josam Company.
2. Jay R. Smith Manufacturing Company.
3. Tyler Pipe/Wade Division.
4. Watts Water Technologies.
5. Zurn Plumbing Products.
6. Or approved equal.

B. Reference Plumbing Drain and Cleanout Schedule on Drawings.

2.3 HUB DRAINS

A. Manufacturers:
1. Josam Company.
2. Jay R. Smith Manufacturing Company.
3. Tyler Pipe/Wade Division.
4. Watts Water Technologies.
5. Zurn Plumbing Products.
6. Or approved equal.

B. Reference Plumbing Drain and Cleanout Schedule on Drawings.

2.4 TRENCH DRAINS

A. Manufacturers:
1. ACO Polymer Products.
2. Josam Company.
3. Jay R. Smith Manufacturing Company.
4. Watts Water Technologies.
5. Zurn Plumbing Products.
6. Or approved equal.

B. Reference Plumbing Drain and Cleanout Schedule on Drawings.

2.5 CLEANOUTS

A. Manufacturers:
1. Josam Company.
2. Jay R. Smith Manufacturing Company.
3. Tyler Pipe/Wade Division.
4. Watts Water Technologies.
5. Zurn Plumbing Products.
6. Or approved equal.

B. Reference Plumbing Drain and Cleanout Schedule on Drawings.

2.6 BACKWATER VALVES

A. Manufacturers:
1. Josam Company: Josam 67500.
2. Jay R. Smith Manufacturing Company: Smith 7012.
3. Watts Water Technologies: Watts BV-200.
4. Zurn Plumbing Products: Zurn Z1090.
5. Or approved equal.

B. Hub and spigot or No-Hub inlet and outlet cast iron body, cast iron gasketed bolted access cover, bronze valve. Flapper to hang in closed position during non-operation period.

PART 3 EXECUTION

3.1 INSTALLATION - GENERAL

A. Coordinate location and setting of plumbing specialties with adjacent construction. Install in accordance with manufacturers recommendations.

B. Set floor drains, roof drains, trench drains, and cleanouts level and plumb adjusted to finished floor elevation, roof elevation or finished wall location. Locate where serviceable. Allow minimum of 18-inch clearance around cleanouts for rodding.

C. Lubricate threaded cleanout plugs with graphite and oil, teflon tape, or waterproof grease. Install trap primer connections where indicated. Provide deep seal traps on floor drains.

D. Set backwater valves on undisturbed soil or compacted granular backfill, level and plumb with top adjusted to finished floor elevation.

E. Test and adjust valve for proper operation. Allow minimum 18-inch clearance for servicing.

F. Install subsoil drain tile receivers where indicated.

G. Adjust receiver height to drain tile inlet and outlet elevations and cleanout to finished floor elevation.

H. Provide indirect waste piping with air gap installation from relief opening to above hub drain or floor drain.

END OF SECTION

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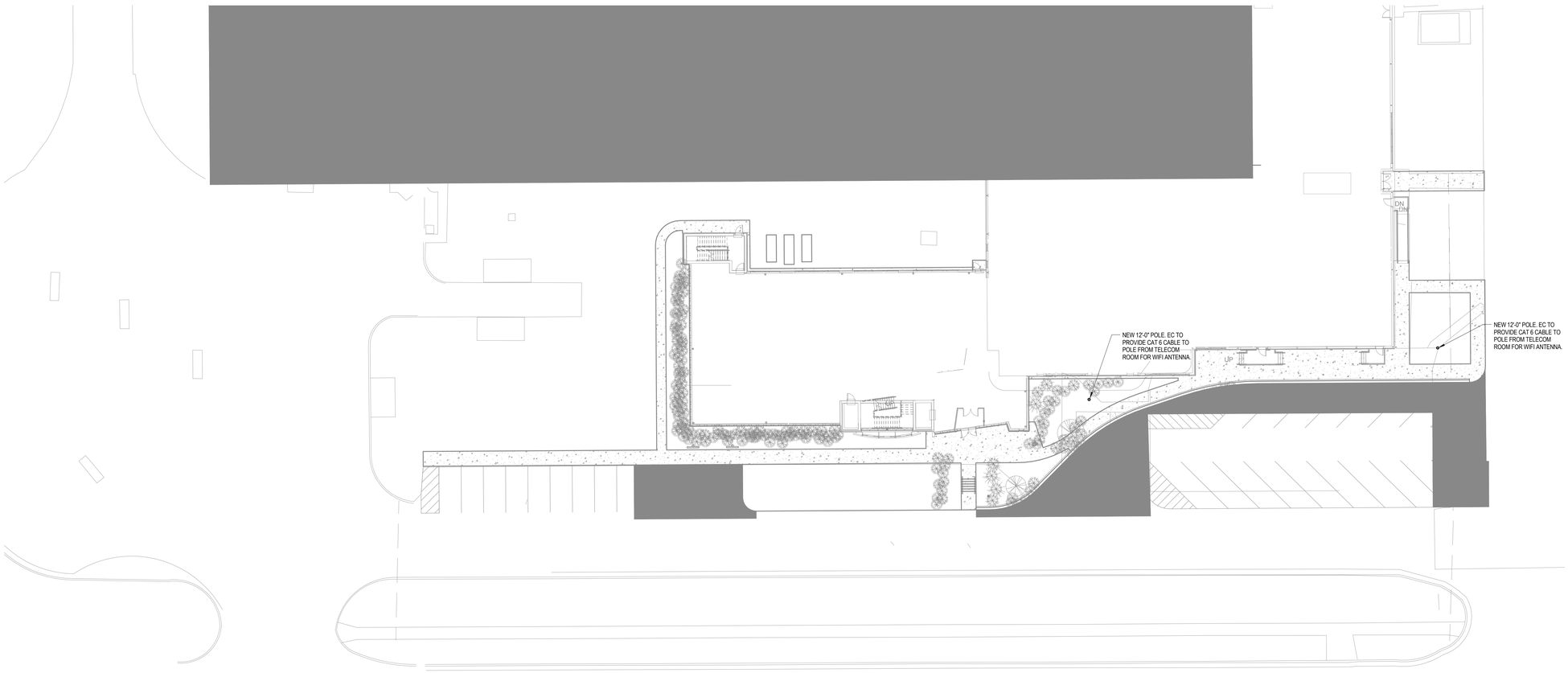

1 ELECTRICAL SITE PLAN

1" = 20'-0"

0 5' 20' 40'

GENERAL NOTES:

1. E.C. SHALL PROVIDE ALL RACEWAYS FROM ACCESSIBLE BUILDING INTERIOR LOCATION, UNDERGROUND, AND WITHIN POLE TO ACCOMMODATE NEW CABLING. PROVIDE AND INSTALL ALL WEATHERPROOF FITTINGS, BOXES, AND CONDUITS AS REQUIRED AS COORDINATED WITH MILWAUKEE COUNTRY IMSD DEPARTMENT.
2. ACTUAL WIFI DEVICES ARE PROVIDED BY MILWAUKEE COUNTRY IMSD DEPARTMENT.

MILWAUKEE COUNTY CENTRAL FLEET MAINTENANCE BUILDING MODIFICATION

CENTRAL FLEET MAINTENANCE BUILDING

10320 W. WATERTOWN PLANK ROAD, WAUWATOSA, WISCONSIN 53226

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CITY CAMPUS 2711 W. WELLS ST. 2ND FLOOR MILWAUKEE, WI 53208

REVISIONS:
1. 05/ 16/ 2014
2.
3.
4.

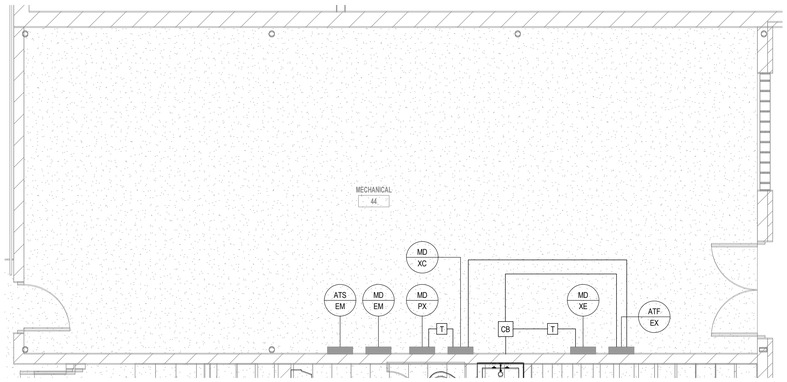
DATE: 03/07/2014

PROJECT: 0230-13636

SITE NO: 365

BUILDING NO: 5600

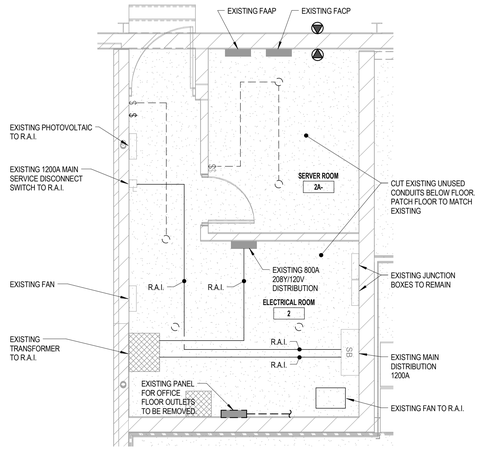
E002



3 EXISTING MECHANICAL ROOM PLAN - ELECTRICAL DEMOLITION

1/4" = 1'-0"

0 2' 4' 8'



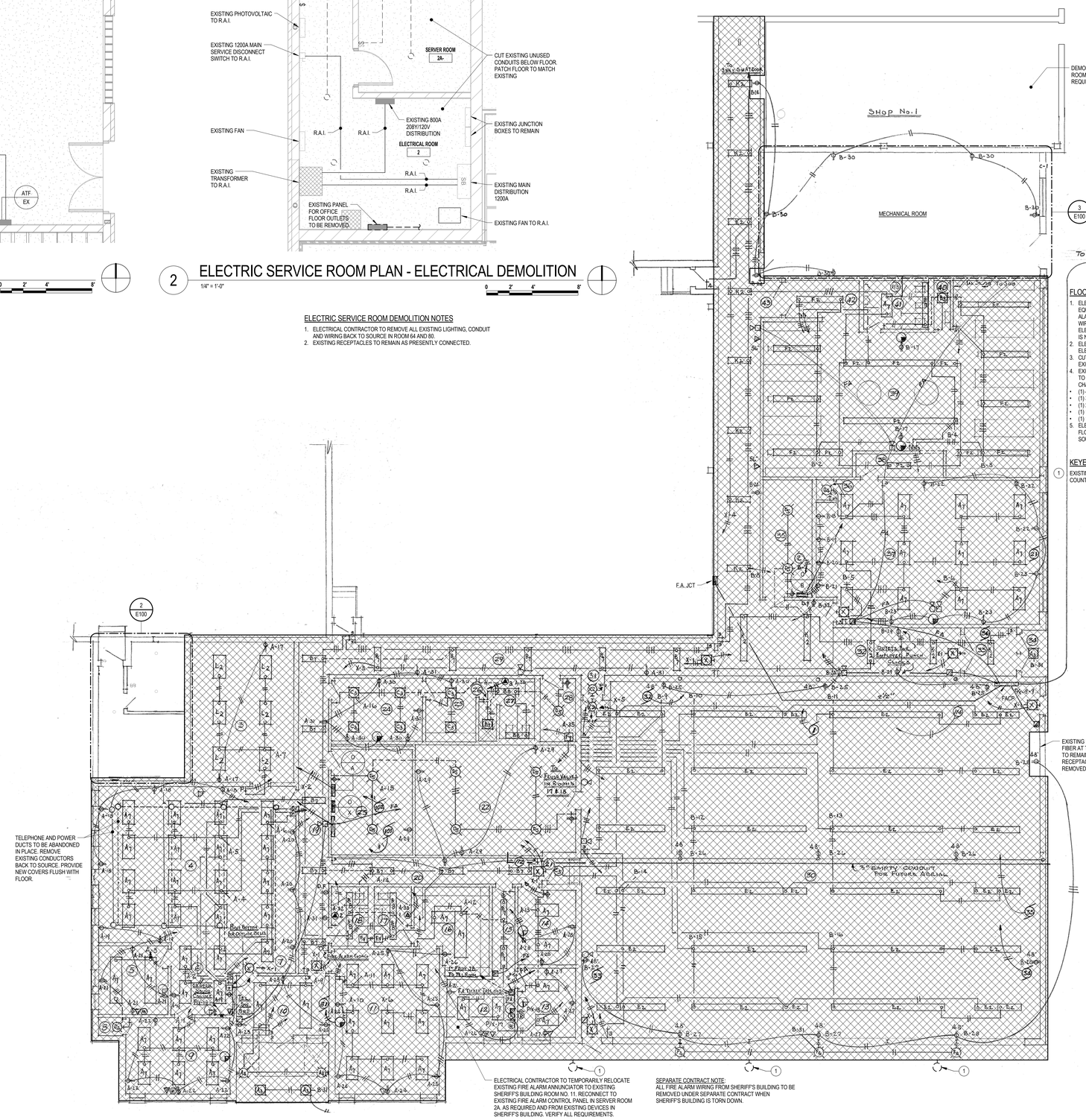
2 ELECTRIC SERVICE ROOM PLAN - ELECTRICAL DEMOLITION

1/4" = 1'-0"

0 2' 4' 8'

ELECTRIC SERVICE ROOM DEMOLITION NOTES

1. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING LIGHTING, CONDUIT AND WIRING BACK TO SOURCE IN ROOM 64 AND 80.
2. EXISTING RECEPTACLES TO REMAIN AS PRESENTLY CONNECTED.



1 ELECTRICAL DEMOLITION - PHASE 2

1/8" = 1'-0"

0 4' 8' 16'

FLOOR PLAN DEMOLITION NOTES

1. ELECTRICAL CONTRACTOR TO REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, LIGHTING, RECEPTACLES, SWITCHES, PANELS, SPEAKERS, FIRE ALARM STATIONS, FIRE ALARM HORN STROBES, TELEPHONES, DATA CLOCKS, WIRING THROUGHS, MOTORS, JUNCTION BOXES, AND MISCELLANEOUS ELECTRICAL EQUIPMENT WITHIN THE HATCHED AREA SHOWN. ALL EQUIPMENT IS NOT SHOWN.
2. ELECTRICAL CONTRACTOR TO REMOVE ALL CONDUIT AND WIRING FROM ALL ELECTRICAL ITEMS BEING REMOVED BACK TO THEIR SOURCE.
3. CUT OFF ALL ABANDONED CODUITS BELOW FLOOR. PATCH FLOOR TO MATCH EXISTING.
4. EXISTING CONDUITS FROM SHERIFF'S BUILDING TO OFFICE BEING REMODELED TO REMAIN IN PLACE. VERIFY AND HAVE APPROVED ANY TEMPORARY CHANGES WITH OWNER.
   - (1) 4" TELEPHONE CONDUIT
   - (1) 3" FIRE ALARM CONDUIT
   - (1) 2-1/2" FEEDER TO MD/F
   - (1) 1-1/2" FEEDER TO F/XC
   - (1) 1-1/2" FEEDER TO F/X
5. ELECTRICAL CONTRACTOR TO REMOVE EXISTING PANEL "PANEL FOR OFFICE FLOOR OUTLETS". REMOVE EXISTING FEEDER AND CONDUCTORS BACK TO SOURCE.

KEYED NOTES THIS SHEET

1 EXISTING EXTERIOR FIXTURE TO BE REMOVED AND TURNED OVER TO THE COUNTY. DEMO BOXES AND WIRING BACK TO SOURCE.

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DATE: 03/07/2014

PROJECT: 0230-13636

SITE NO: 365

BUILDING NO: 5600

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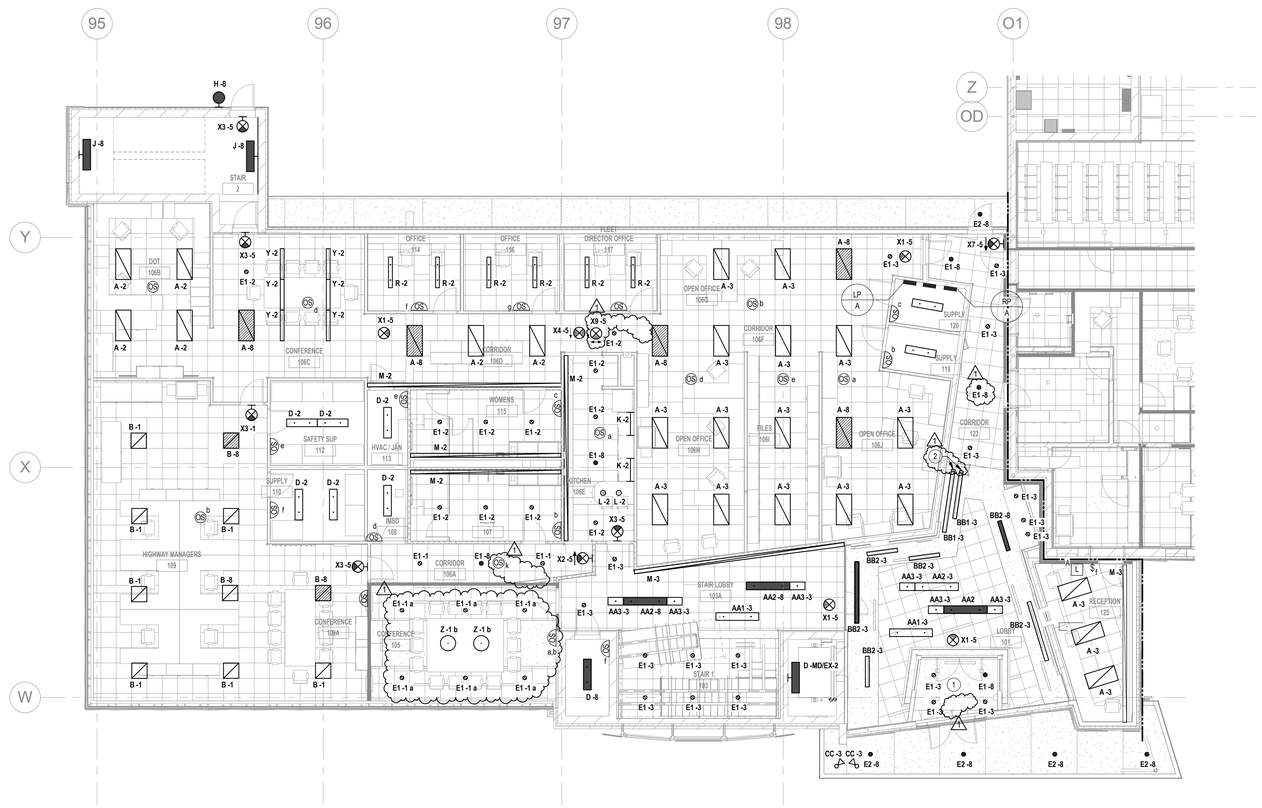

GENERAL NOTES:

1. NORMAL LIGHTING CIRCUITS FED FROM PANEL "LP/A" LOCATED IN SUPPLY ROOM 120.
2. EXIT LIGHTS AND EGRESS LIGHTING CIRCUITS FED FROM PANEL "MD/EM" IN MECHANICAL ROOM 44. TO BE CONNECTED AHEAD OF ALL SWITCHES AND CONTROL DEVICES

KEYED NOTES THIS SHEET

1. EVERYTHING IN VESTIBULE MUST BE FED FROM SLAB BELOW.
2. FIXTURE CONTINUES DOWN WALL VERTICALLY. SEE ARCHITECTURAL ELEVATIONS FOR MORE INFORMATION.

1 NEW WORK PLAN - LEVEL 01 - LIGHTING - BID PACKAGE 3 PHASE 1

1/8" = 1'-0"

0 4' 8' 16'

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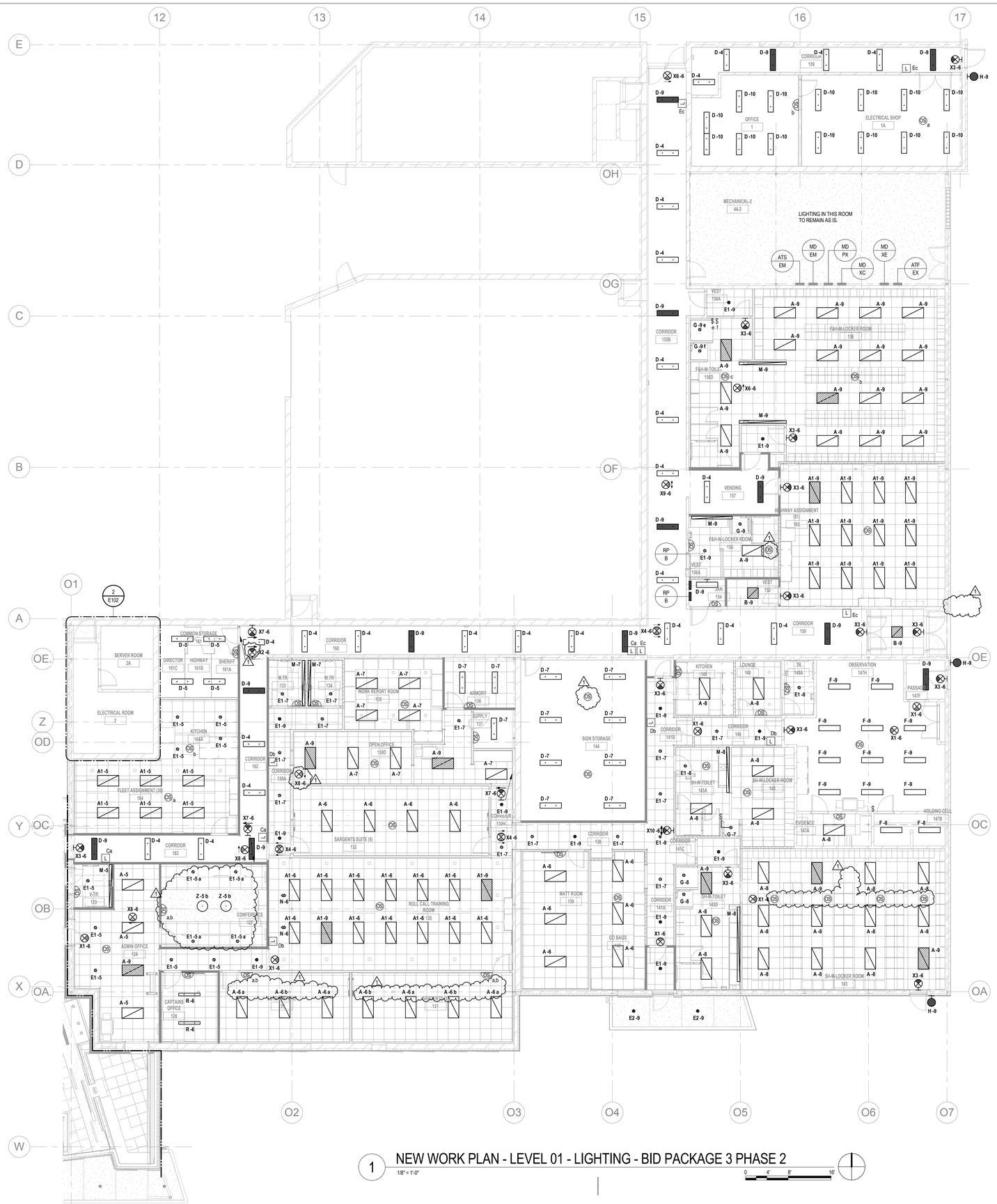
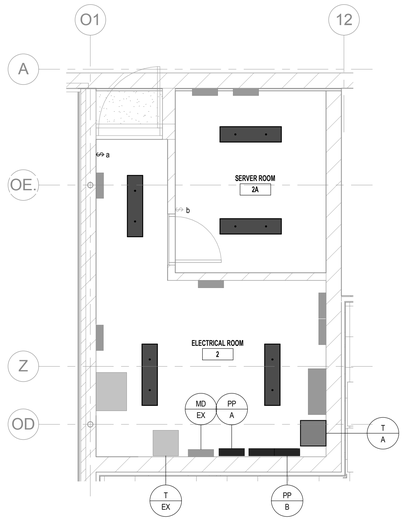


1 NEW WORK PLAN - LEVEL 01 - LIGHTING - BID PACKAGE 3 PHASE 2

1/8" = 1'-0"



2 ENLARGED SERVER AND TRANOMETER ROOM

1/4" = 1'-0"

GENERAL NOTES

1. NORMAL LIGHTING CIRCUITS FED FROM PANEL "LP/A" LOCATED IN SUPPLY 120.
2. EXIT LIGHTS AND EGRESS LIGHTING CIRCUITS FED FROM EXISTING PANEL "MD/EM" IN MECHANICAL ROOM 44. TO BE CONNECTED AHEAD OF ALL SWITCHES AND CONTROL DEVICES

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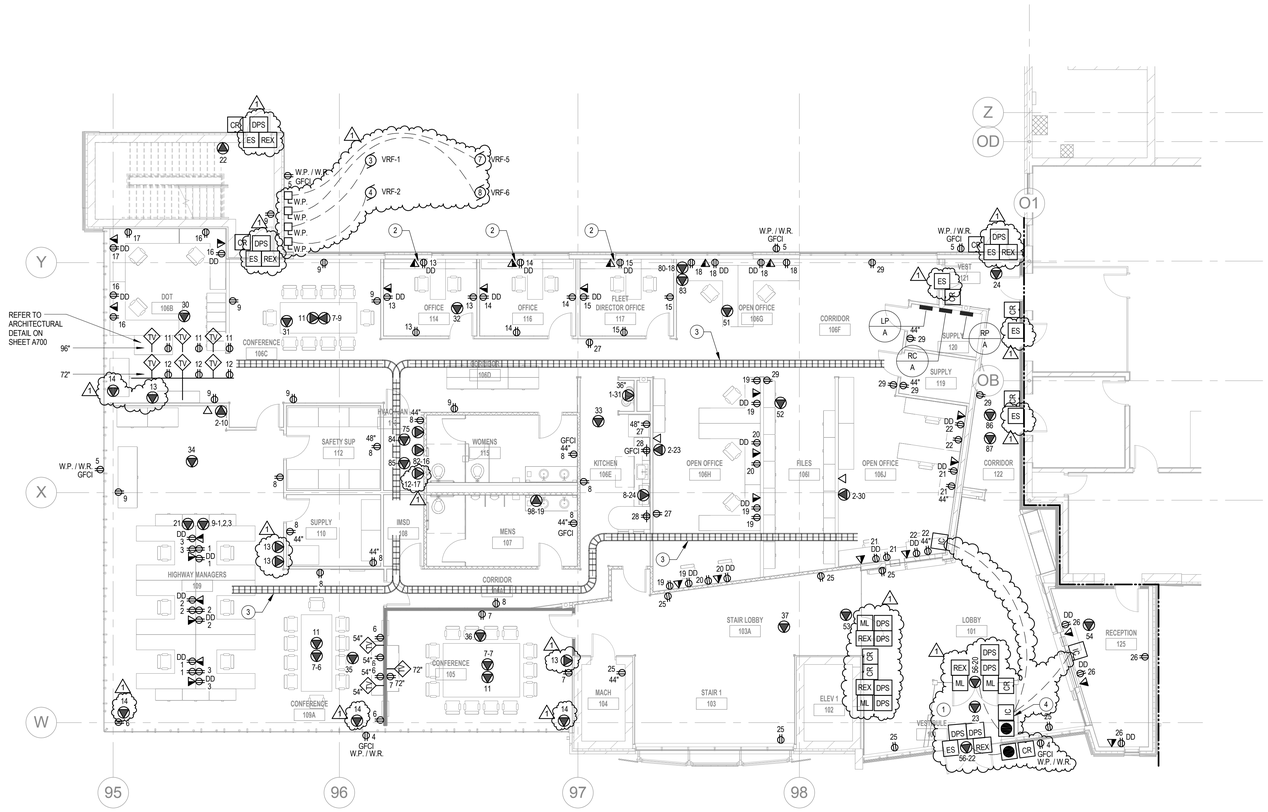


1 NEW WORK PLAN - LEVEL 01 - POWER & SYSTEMS - BID PACKAGE 3 PHASE 1
1/8" = 1'-0"

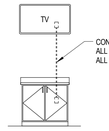
0 4' 8' 16'

GENERAL NOTES

1. NORMAL RECEPTACLE CIRCUITS FED FROM PANEL "RP/A" IN SUPPLY ROOM 120.
2. PROVIDE CONDUIT IN WALL FOR ALL TVS. SEE DETAIL 2/E201.
3. PROVIDE CIRCUITS FOR TRAP PRIMERS. COORDINATE LOCATIONS AND QUANTITY WITH PLUMBING CONTRACTOR. ASSUME THREE 20 AMP 1 POLE 120V BREAKERS. FEED FROM PANEL "PP/B" IN ELECTRICAL ROOM 2.

KEYED NOTES THIS SHEET

1. EVERYTHING IN VESTIBULE MUST BE FED FROM SLAB BELOW.
2. COORDINATE LOCATION OF RECEPTACLE AND DATA OUTLET WITH FURNITURE.
3. 12" X 4" BASKET CABLE TRAY.
4. INTERCOM MODEL NUMBER "DA-4DS".



2 TV CONDUIT DETAIL
NTS

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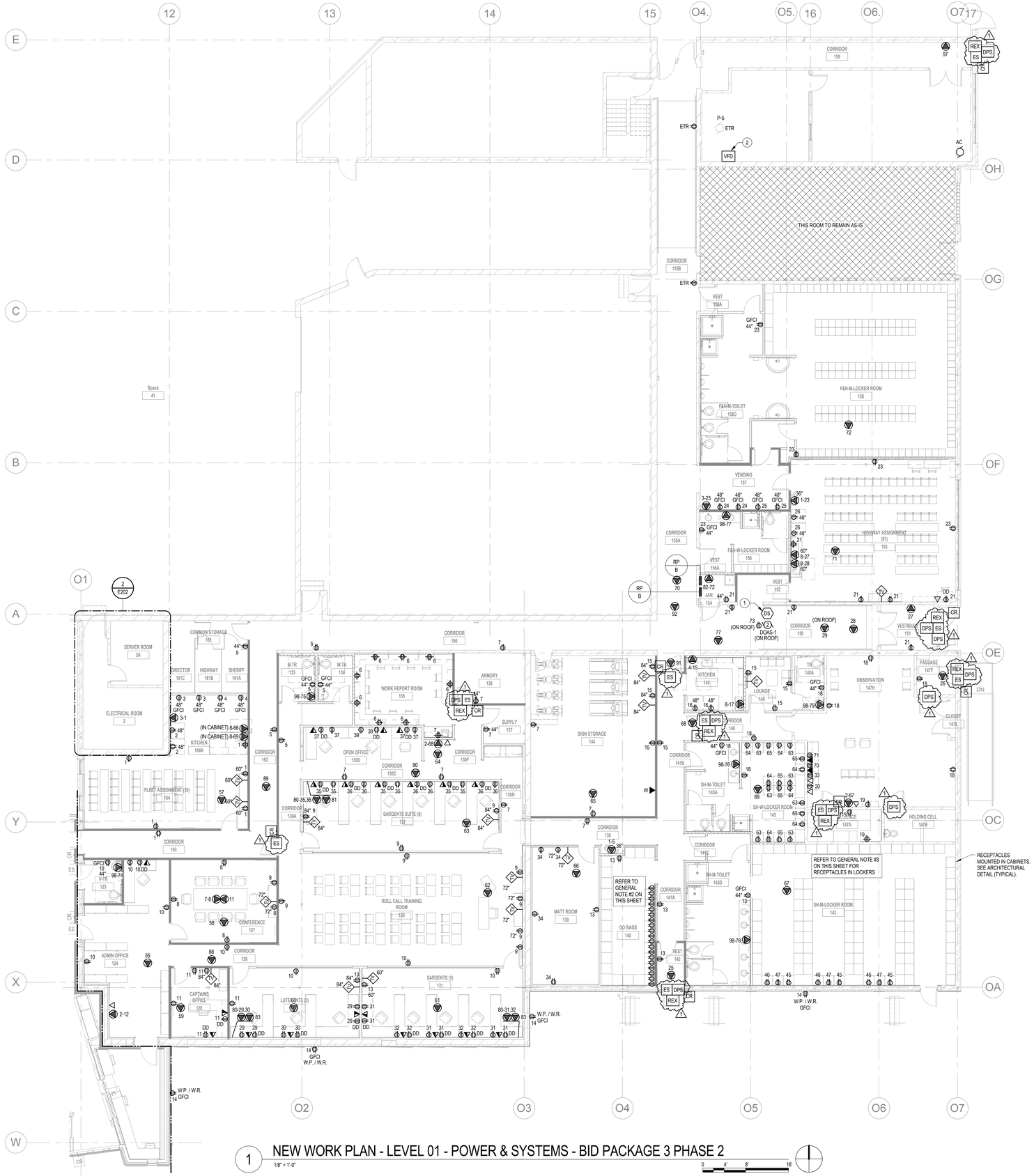
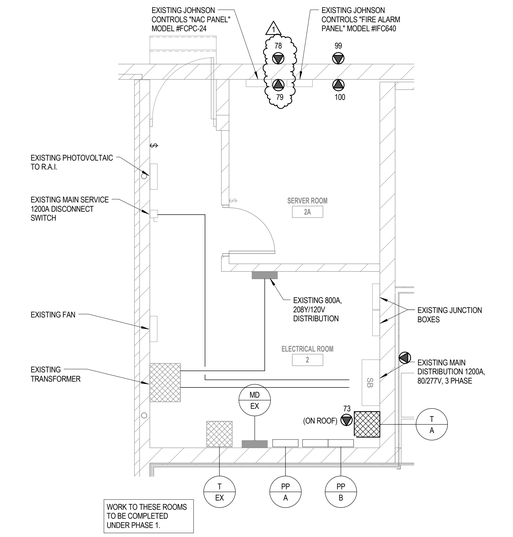


1 NEW WORK PLAN - LEVEL 01 - POWER & SYSTEMS - BID PACKAGE 3 PHASE 2

1/8" = 1'-0"



2 ENLARGED SERVER AND TRANOMETER ROOM

1/4" = 1'-0"

GENERAL NOTES

1. NORMAL RECEPTACLE CIRCUITS FED FROM PANEL "RP/B" IN JANITOR ROOM 154.
2. ELECTRICAL CONTRACTOR TO PROVIDE WIREMOLD WITH DUPLEX RECEPTACLES 12" ON CENTER. SEE SPECIFICATIONS FOR MANUFACTURER AND CATALOG NUMBERS. PROVIDE (6) 120V CIRCUITS FROM PANEL "RP/B". ALTERNATE CIRCUITS TO RECEPTACLES.
3. ELECTRICAL CONTRACTOR TO PROVIDE WIRING SYSTEM AS SPECIFIED IN SPECIFICATION. CIRCUIT AS SHOWN ON PLANS.
4. PROVIDE CONDUIT IN WALL FOR ALL TVS. SEE DETAIL 2/E201.
5. "PANEL FOR OFFICE FLOOR OUTLETS" TO BE REMOVED AFTER EXISTING LOADS ARE RECONNECTED OR REMOVED.

KEYED NOTES THIS SHEET

1. E.C. SHALL PROVIDE AND INSTALL DUCT SMOKE DETECTOR IN THE EXHAUST AIR DUCT GOING UP TO DOAS-1.
2. NEW VARIABLE FREQUENCY DRIVE FOR EXISTING PUMP (X)P-5. FURNISHED BY MECHANICAL CONTRACTOR.

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Milwaukee County Dept. of Administrative Services
FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services
CITY CAMPUS 2711 W. WELLS ST. 2ND FLOOR MILWAUKEE, WI 53208

REVISIONS:
1. 05/ 16/ 2014
2.
3.
4.

DATE: 03/07/2014
PROJECT: 0230-13636
SITE NO: 365
BUILDING NO: 5600

E202

GRAEF

One Honey Creek Corporate Center
125 South 84th Street, Suite 401
Milwaukee, WI 53214-1470
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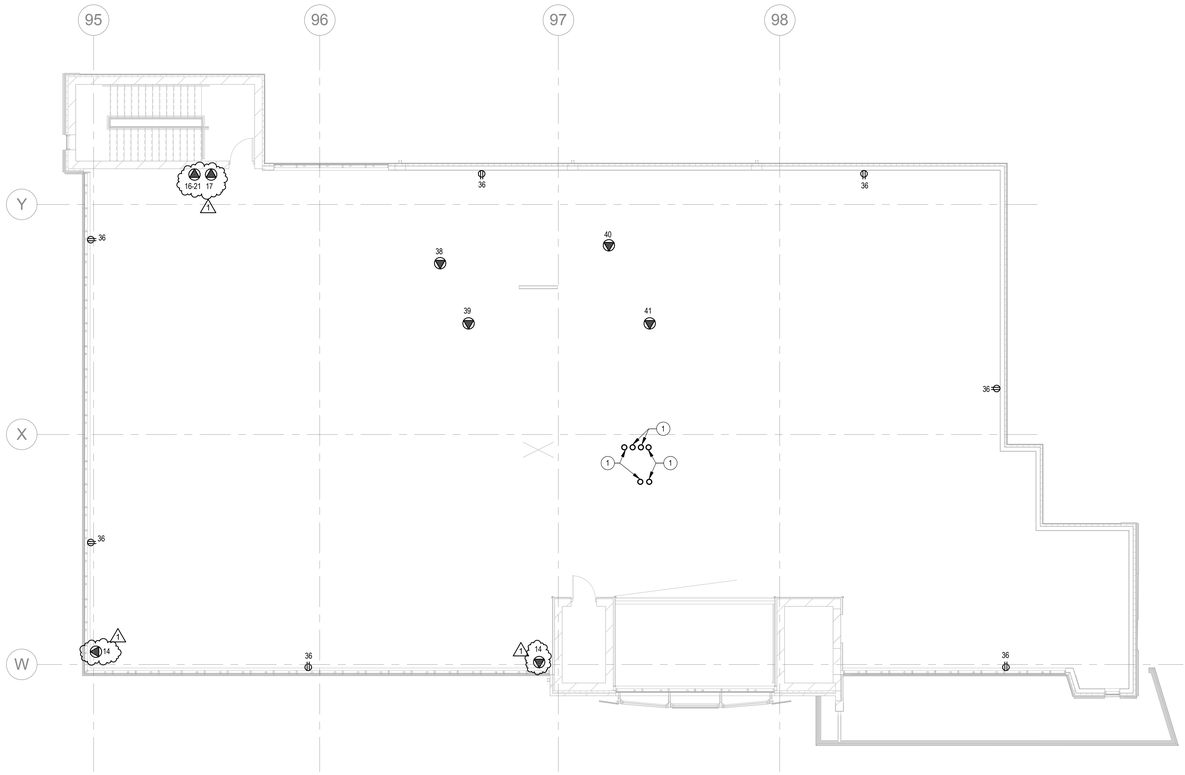

1 NEW WORK PLAN - LEVEL 02 - POWER & SYSTEMS - BID PACKAGE 3 PHASE 1

1/8" = 1'-0"

0 4' 8' 16'

GENERAL NOTES

1. NORMAL RECEPTACLE CIRCUITS FED FROM PANEL "RP/A" IN SUPPLY ROOM 120.
2. ELECTRICAL CONTRACTOR TO COORDINATE POKE THRU LOCATIONS WITH IN FLOOR RADIANT HEAT CONTRACTOR. LOCATING SLEEVE FOR POKE THRU OR FLUSH FLOOR BOXES AS REQUIRED PRIOR TO CONCRETE POUR.

KEYED NOTES THIS SHEET

1 4" SLEEVES FOR FUTURE ELECTRICAL EQUIPMENT.

MILWAUKEE COUNTY CENTRAL FLEET MAINTENANCE BUILDING MODIFICATION

CENTRAL FLEET MAINTENANCE BUILDING

10320 W. WATERTOWN PLANK ROAD, WAUWATOSA, WISCONSIN 53226

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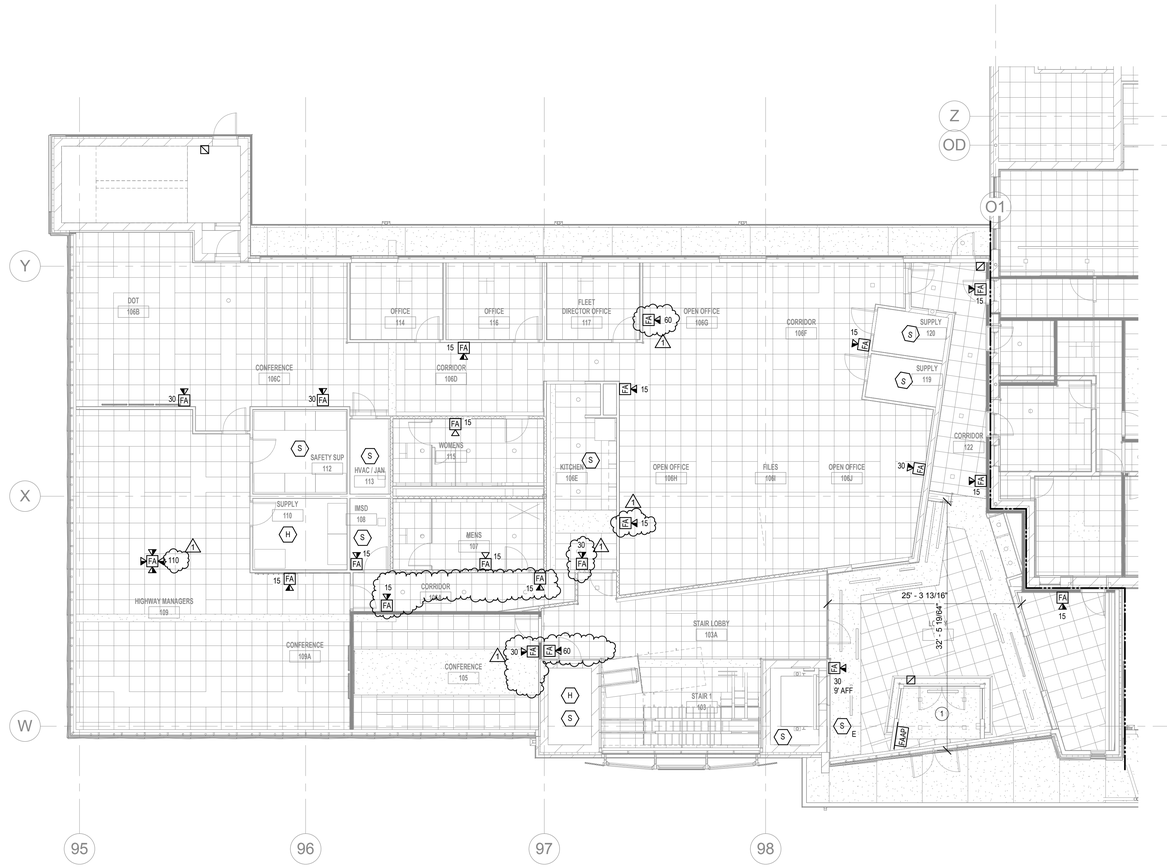
KEYED NOTES THIS SHEET

1. EVERYTHING IN VESTIBULE MUST BE FED FROM SLAB BELOW.



1 NEW WORK PLAN - LEVEL 01 - FIRE ALARM - BID PACKAGE 3 PHASE 1

1/8" = 1'-0"

0 4' 8' 16'

MILWAUKEE COUNTY CENTRAL FLEET MAINTENANCE BUILDING MODIFICATION

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PROJECT: 0230-13636

SITE NO: 365

BUILDING NO: 5600

E301

1 NEW WORK PLAN - LEVEL 01 - FIRE ALARM - BID PACKAGE 3 PHASE 2

1/8" = 1'-0"

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MILWAUKEE COUNTY CENTRAL FLEET MAINTENANCE BUILDING MODIFICATION

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DATE: 03/07/2014

PROJECT: 0230-13636

SITE NO: 365

BUILDING NO: 5600

E302

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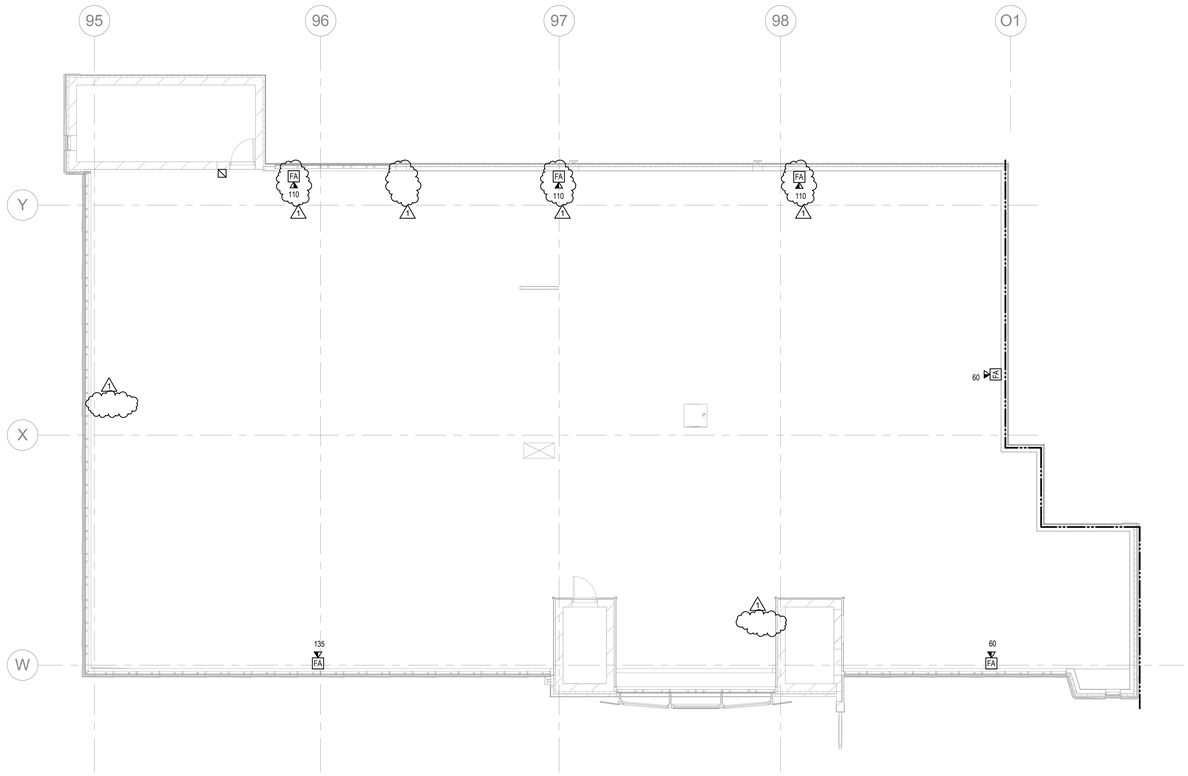

1 NEW WORK PLAN - LEVEL 02 - FIRE ALARM - BID PACKAGE 3 PHASE 1
1/8" = 1'-0"

0 4' 8' 16'

MILWAUKEE COUNTY CENTRAL FLEET MAINTENANCE BUILDING MODIFICATION

CENTRAL FLEET MAINTENANCE BUILDING

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DATE:
03/07/2014

PROJECT:
0230-13636

SITE NO:
365

BUILDING NO:
5600

E303

SPECIAL PURPOSE OUTLET SCHEDULE

#	SERVING	LOC	FEED FROM		BREAKER		WIRING			VOLT	PHASE	LOAD	SEE NOTE
			PANEL	CIRCUIT	SIZE	POLE	#	SIZE	COND				
1	ELECTRIC WATER COOLER	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1	-	1
2	COPY MACHINE	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1	-	2
3	COIN MACHINE	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1	-	1
4	DISH WASHER	KITCHEN 149	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1		2
5	NOT USED												
6	NOT USED												
7	FLUSH FLOOR MOUNTED RECEPTACLE	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1		4
8	MICROWAVE	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1		5
9	FLUSH FLOOR BOX TO FEED PARTITION (POWER)	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1		10
10	NOT USED												
11	FLUSH MOUNTED DATA/TELE	SEE PLANS	-	-	-	-	-	-	(2)3/4"	-	-		14
12	SUN GLASS CONTROL ENCLOSURE	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1		27
13	SUN GLASS WALL SWITCH	SEE PLANS											27
14	SUN GLASS "IGU"	SEE PLANS											27
15	NOT USED												
19	NOT USED												
20	NOT USED												
21	FLUSH FLOOR BOX TO FEED PARTITION (DATA/TELE)	SEE PLANS	-	-	-	-	-	-	3/4"	-	-		13
22	CABINET UNIT HEATER NO. 1 CUH-1	STAIR 2	PP/B	43	20	1	2 1	12 12G	3/4"	120	1	1/30 HP	24
23	CABINET UNIT HEATER NO. 2 CUH-2	VESTIBULE 100, CLG	PP/B	45	20	1	2 1	12 12G	3/4"	120	1	1/40 HP	24
24	CABINET UNIT HEATER NO. 3 CUH-3	VESTIBULE 121, CLG	PP/B	47	20	1	2 1	12 12G	3/4"	120	1	1/40 HP	24
25	CABINET UNIT HEATER NO. 4 CUH-4	VESTIBULE 142, CLG	PP/B	49	20	1	2 1	12 12G	3/4"	120	1	1/40 HP	24
26	CABINET UNIT HEATER NO. 5 CUH-5	PASSAGE 147F, CLG	PP/B	51	20	1	2 1	12 12G	3/4"	120	1	1/40 HP	24
27	CABINET UNIT HEATER NO. 6 CUH-6	VESTIBULE 151	PP/B	53	20	1	2 1	12 12G	3/4"	120	1	1/40 HP	24
28	CABINET UNIT HEATER NO. 7 CUH-7	CORRIDOR 150	PP/B	55	20	1	2 1	12 12G	3/4"	120	1	1/25 HP	24
29	GROUNDABLE DUPLEX RECEPTACLE ON ROOF	ROOF	RP/B	22	20	1	2 1	12 12G	3/4"	120	1		18
30	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-01	DOT 106B	PP/B	2,4	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
31	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-02	CONF. 106C	PP/B	2,4	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
32	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-03	OFFICE 114	PP/B	2,4	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
33	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-04	KITCHEN 106E	PP/B	2,4	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
34	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-05	HIGHWAY 109	PP/B	6,8	20	2	2 1	12 12G	3/4"	208	1	3.0 A	20
35	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-06	CONF. 109A	PP/B	6,8	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
36	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-07	CONF. 105	PP/B	6,8	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
37	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-08	STAIR LOBBY 103A	PP/B	6,8	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
38	UNIT HEATER	LEVEL 2	PP/B	27	20	1	2 1	12 12G	3/4"	120	1		3
39	UNIT HEATER	LEVEL 2	PP/B	27	20	1	2 1	12 12G	3/4"	120	1		3
40	UNIT HEATER	LEVEL 2	PP/B	27	20	1	2 1	12 12G	3/4"	120	1		3
41	UNIT HEATER	LEVEL 2	PP/B	27	20	1	2 1	12 12G	3/4"	120	1		3
51	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-22	OPEN OFFICE 106G	PP/B	22,24	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
52	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-23	FILES 106I	PP/B	22,24	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
53	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-24	STAIR LOBBY 103A	PP/B	22,24	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
54	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-25	RECEPTION 125	PP/B	22,24	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
55	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-26	ADMIN 124	PP/B	26,28	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
56	ADA OPERATOR	VESTIBULE 100	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1		26
57	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-28	FLEET 164	PP/B	26,28	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
58	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-29	CONF. 127	PP/B	26,28	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
59	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-30	CAPTAINS 128	PP/B	26,28	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
60	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-31	LUTENANTS 129	PP/B	30,32	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20

NOTES:

1. PROVIDE (1) 20 AMP. GFCI RECEPTACLE SEE ARCH. DETAILS FOR MTG. HT.
2. PROVIDE (1) 20A GROUNDABLE DUPLEX RECEPTACLE 18" A.F.F.
3. DISCONNECT FURNISHED BY MECHANICAL CONTRACTOR. E.C. TO INSTALL AND WIRE DISCONNECT SWITCH.
4. PROVIDE FLUSH FLOOR BOX WITH (1) FLUSH MTD. GROUNDABLE DUPLEX RECEPTACLE & FLUSH COVER. EC TO COORDINATE FLOOR PENETRATIONS WITH IN FLOOR RADIANT HEATING.
5. PROVIDE (1) GFCI, GROUNDABLE DUPLEX RECEPTACLE ON DEDICATED CIRCUIT.
6. NOT USED
7. E.C. TO PROVIDE SINGLE GANG FLUSH MOUNTED BOX. SUN GLASS TO PROVIDE SWITCH AND FACEPLATE.
8. NOT USED
9. NOT USED
10. NOT USED
11. NOT USED
12. NOT USED
13. PROVIDE FLUSH FLOOR BOX WITH (2) 1" WHIPS FOR DATA/TELE TO PARTITION. STUB (2) 1" C UP INTO ACCESSIBLE CEILING CAVITY. EC TO COORDINATE FLOOR PENETRATIONS WITH IN FLOOR RADIANT HEATING.
14. PROVIDE FLUSH FLOOR BOX WITH FLUSH MOUNTED DATA & TELE JACKS & FLUSH COVER. STUB (1) 3/4" C UP INTO ACCESSIBLE CEILING CAVITY. EC TO COORDINATE FLOOR PENETRATIONS WITH IN FLOOR RADIANT HEATING.
15. PROVIDE (1) 4" SQ. BOX FLUSH IN WALL WITH (1) 3/4" WHIP TO FEED RECEPTACLES IN PARTITION.
16. PROVIDE (1) 4" SQ. BOX FLUSH IN WALL WITH (1) 1" WHIP TO FEED DATA/TELE OUTLETS IN PARTITION. PROVIDE (1) 1" C TO ACCESSIBLE CEILING CAVITY. CABLE TO BE PLENUM RATED CAT. 6.
17. PROVIDE (2) 4" SQ. BOXES FLUSH IN WALL WITH (1) 1" WHIP EACH TO FEED DATA/TELE OUTLETS IN PARTITIONS. PROVIDE (1) 1" C TO ACCESSIBLE CEILING CAVITY. CABLE TO BE PLENUM RATED CAT. 6.
18. PROVIDE (1) WEATHER RESISTIANT GFCI RECEPTACLE IN W.P. BOX 12" ABOVE FINISHED ROOF.
19. PROVIDE THE NUMBER OF CIRCUITS SHOWN.
20. FULL VOLTAGE, NON-REVERSING STARTER FURNISHED BY EQUIPMENT MANUFACTURER. NON-FUSED DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR.
21. NON-FUSED DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR. E.C. TO INSTALL AND WIRE DISCONNECT SWITCH.
22. MANUAL STARTER SWITCH FURNISHED BY MECHANICAL CONTRACTOR. NON-FUSED DISCONNECT SWITCH FURNISHED BY EQUIPMENT MANUFACTURER.
23. MANUAL STARTER SWITCH FURNISHED BY MECHANICAL CONTRACTOR. NON-FUSED DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR.
24. MANUAL STARTER SWITCH FURNISHED BY EQUIPMENT MANUFACTURER. NON-FUSED DISCONNECT SWITCH FURNISHED BY EQUIPMENT MANUFACTURER.
25. MANUAL STARTER SWITCH FURNISHED BY EQUIPMENT MANUFACTURER. NON-FUSED DISCONNECT SWITCH FURNISHED BY MECHANICAL CONTRACTOR.
26. COORDINATE BUTTON LOCATION WITH ARCHITECT. E.C. TO INSTALL AND PROVIDE WIRING AND RACEWAY.
27. SUN GLASS PART OF ALTERNATE #1.

SPECIAL PURPOSE OUTLET SCHEDULE

#	SERVING	LOC	FEED FROM		BREAKER		WIRING			VOLT	PHASE	LOAD	SEE NOTE
			PANEL	CIRCUIT	SIZE	POLE	#	SIZE	COND				
61	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-32	SARGENTS 131	PP/B	30,32	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
62	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-33	ROLL CALL 130	PP/B	30,32	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
63	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-34	SARGENTS SUITE 132	PP/B	30,32	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
64	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-35	CORRIDOR 130F	PP/B	34,36	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
65	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-36	EXERCISE 144	PP/B	34,36	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
66	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-37	MATT ROOM 139	PP/B	34,36	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
67	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-38	SH-M LOCKER 143	PP/B	34,36	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
68	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-39	CORRIDOR 141B	PP/B	38,40	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
69	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-40	SH-W LOCKER 145	PP/B	38,40	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
70	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-41	CORRIDOR 155A	PP/B	38,40	20	2	2 1	12 12G	3/4"	208	1	0.92 A	20
71	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-42	HIGHWAY 153	PP/B	38,40	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
72	VARIABLE REFRIGERANT FLOW INDOOR HEAT PUMP HP-43	F&H-M LOCKER 158	PP/B	38,40	20	2	2 1	12 12G	3/4"	208	1	2.3 A	20
73	EXHAUST FAN - EF-1	ROOF	PP/B	1	20	1	2 1	12 12G	3/4"	120	1	1/3 HP	22
75	PUMP - P-1	HVAC/JAN 113	PP/B	5	20	1	2 1	12 12G	3/4"	120	1	1/10 HP	23
76	NOT USED												
77	PUMP - P-3	CORRIDOR 150	PP/B	9	20	1	2 1	12 12G	3/4"	120	1	1/25 HP	23
78	DUCTLESS SPLIT SYSTEM A/C UNIT ACCU-1	SERVER 2A	PP/B	11,13	20	2	2 1	10 10G	3/4"	208	1	19 MCA	25
79	DUCTLESS SPLIT SYSTEM A/C UNIT AC-1	SERVER 2A	PP/B	11,13	20	2	2 1	10 10G	3/4"	208	1	19 MCA	25
80	WALL MOUNTED PARTITION FEED (POWER)	SEE PLANS	SEE PLANS	SEE PLANS			1	3/4"	WHIP			VARIES	15,19
81	WALL MOUNTED PARTITION FEED (DATA/TEL)	SEE PLANS	-	-	-	-	1	1"	WHIP	-	-	-	16
82	CONTROL PANEL	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1		
83	WALL MOUNTED PARTITION FEED (DATA/TEL)	SEE PLANS	-	-	-	-	2	1"	WHIPS	-	-	-	17
84	HEAT RECOVERY BOX - HR-1	HVAC/JAN 113	PP/B	19,21	20	2	2 1	12 12G	3/4"	208	1	0.16 A	21
85	HEAT RECOVERY BOX - HR-2	HVAC/JAN 113	PP/B	19,21	20	2	2 1	12 12G	3/4"	208	1	0.16 A	21
86	HEAT RECOVERY BOX - HR-3	CORRIDOR 122	PP/B	19,21	20	2	2 1	12 12G	3/4"	208	1	0.16 A	21
87	HEAT RECOVERY BOX - HR-4	CORRIDOR 122	PP/B	19,21	20	2	2 1	12 12G	3/4"	208	1	0.08 A	21
88	HEAT RECOVERY BOX - HR-5	CORRIDOR 126	PP/B	19,21	20	2	2 1	12 12G	3/4"	208	1	0.16 A	21
89	HEAT RECOVERY BOX - HR-6	CORRIDOR 162	PP/B	23,25	20	2	2 1	12 12G	3/4"	208	1	0.08 A	21
90	HEAT RECOVERY BOX - HR-7	CORRIDOR 130C	PP/B	23,25	20	2	2 1	12 12G	3/4"	208	1	0.16 A	21
91	HEAT RECOVERY BOX - HR-8	CORRIDOR 150	PP/B	23,25	20	2	2 1	12 12G	3/4"	208	1	0.16 A	21
92	HEAT RECOVERY BOX - HR-9	CORRIDOR 155A	PP/B	23,25	20	2	2 1	12 12G	3/4"	208	1	0.12 A	21
97	CABINET UNIT HEATER NO. 8 CUH-8	CORRIDOR 159	PP/B	57	20	1	2 1	12 12G	3/4"	120	1	1/40 HP	24
98	LAVATORY FAUCETS	SEE PLANS	SEE PLANS	SEE PLANS	20	1	2 1	12 12G	3/4"	120	1		
99	DUCTLESS SPLIT SYSTEM A/C UNIT ACCU-2	SERVER 2A	PP/B	15,17	20	2	2 1	10 10G	3/4"	208	1	19 MCA	25
100	DUCTLESS SPLIT SYSTEM A/C UNIT AC-2	SERVER 2A	PP/B	15,17	20	2	2 1	10 10G	3/4"	208	1	19 MCA	25
101													
102													
103													
104													
105													
106													
107													
108													
109													
110													
111													
112													
113													

SWITCH STATION SCHEDULE

STATION DESIGNATION	SWITCH DESIGNATION	RELAY CONTROLLED	AREA CONTROLLED	SEE NOTE
A	d	1	STAIR LOBBY 103A	
A	e	2	LOBBY 101 CORR 122	
C	a	3	CORR 160, 162, 163	
D	b	4	CORR 130A, 130D, 130H, 138, 141A, 141B, 141C, 146	
E	c	5	CORR 150, 155B, 159	

LOW VOLTAGE RELAY CABINET SCHEDULE

CABINET DESIGNATION:

RELAY #	CIRCUIT CONTROLLED	CONTROLLED BY	
		SWITCH STATION	SWITCH DESIGNATION
1	LP/A-3	A	d
2	LP/A-3	A	e
3	LP/A-4	Ca	a
4	LP/A-7	Db	b
5	LP/A-4	Ec	c
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

MOTOR STARTER SCHEDULE

GENERAL ABBREVIATIONS:		STARTER TYPES:		DISCONNECT TYPES:		FURNISHED BY:	
N/A	NOT APPLICABLE	MAN	MANUAL STARTER SWITCH	FDS	FUSIBLE DISCONNECT SWITCH	EM	EQUIPMENT MANUFACTURE
FLA	FULL LOAD AMPS	FVNR	FULL VOLTAGE NON-REVERSING	NFDS	NON-FUSED DISCONNECT SWITCH	EC	ELECTRICAL CONTRACTOR
KVA	KILOVOLT AMPERE	FVR	FULL VOLTAGE REVERSING	CBD	CIRCUIT BREAKER DISCONNECT	MC	MECHANICAL CONTRACTOR
KW	KILOWATT	VFD	VARIABLE FREQUENCY DRIVE	COMB	COMBINATION STARTER/FDS	PC	PLUMBING CONTRACTOR
HP	HORSEPOWER	TS2W	TWO SPEED, 2 WINDING	CAP	CORD AND PLUG	FPC	FIRE PROTECTION CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS	TS1W	TWO SPEED, 1 WINDING				

GENERAL NOTES

A. OBTAIN SUPPLIERS SHOP DRAWINGS/WIRING DIAGRAMS TO VERIFY LOCATION AND REQUIREMENTS PRIOR TO ROUGH-IN

B. FURNISH HACR TYPE BREAKERS FOR ALL HVAC EQUIPMENT

C. ELECTRICAL CONTRACTOR SHALL INSTALL ALL STARTERS AND DISCONNECTS AND PROVIDE ALL WIRING AND CONDUIT NEEDED FOR COMPLETE SYSTEM.

D. ALL MOTORS SHALL BE PROVIDED WITH A DISCONNECT SWITCH LOCATED PER NEC REQUIREMENTS.

#	LOAD	VOLT	PHASE	LOCATION	DRIVING	FEED FROM		BREAKER		BRANCH WIRING				STARTER		DISCONNECT		SEE NOTES
						PANEL	CIRCUIT	SIZE	POLE	#	SIZE	GND	CONDUIT	TYPE	FURNISHED BY	TYPE	FURNISHED BY	
DOAS-1	44.9 MCA	480	3	150	DEDICATED OUTDOOR AIR SYSTEM	PP/A	1,3,5	50	3	3	8	10	3/4"	VFD	EM	NFDS	EM	
VRF-1	31.6 MCA	480	3	SEE PLANS	VARIABLE REFRIGERANT 1	PP/A	2,4,6	40	3	3	8	10	3/4"	FVNR	EM	NFDS	MC	
VRF-2	31.6 MCA	480	3	SEE PLANS	VARIABLE REFRIGERANT 2	PP/A	7,9,11	40	3	3	8	10	3/4"	FVNR	EM	NFDS	MC	
VRF-5	31.6 MCA	480	3	SEE PLANS	VARIABLE REFRIGERANT 5	PP/A	14,16,18	40	3	3	8	10	3/4"	FVNR	EM	NFDS	MC	
VRF-6	31.6 MCA	480	3	SEE PLANS	VARIABLE REFRIGERANT 6	PP/A	19,21,23	40	3	3	8	10	3/4"	FVNR	EM	NFDS	MC	
AC	1/3 HP	120	1	1A	AIR COMPRESSOR	MD/EX	3	15	1	3	12	12	3/4"					

LIGHT FIXTURE SCHEDULE

NOTE: SEE SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION REGARDING FIXTURE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED "OPTIONS / ACCESSORIES". MANUFACTURES LISTED AS ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.

ABBREVIATIONS: DW = DRYWALL, ES = EXPOSED STRUCTURE, LG = LAY-IN GRID, P = PENDANT, PL = PLASTER, PO = POLE, R = RECESS, S = SURFACE, W = WALL MOUNTED, V = VARIES

DES	LAMP DATA			DESCRIPTION	LIGHT FIXTURE		VOLTS	MOUNT	CEILING TYPE	FIXTURE DEPTH	OPTIONS / ACCESSORIES	ACCEPTABLE EQUALS	SEE NOTE
	QTY	TYPE	LAMP COLOR		MANUFACTURER	CATALOG SERIES							
A	2	28WT5	3500K	2'x4' VOLUMETRIC	LITHONIA	2RT5-28T5-MVOLT-GEB95-LPM835P	277	R	LG			METALUX ACCORD	
A1	2	28WT5	3500K	2'x4' DIMMING VOLUMETRIC	LITHONIA	2RT5-28T5-MVOLT-GEB95S-LPM835P	277	R	LG			METALUX ACCORD	
B	2	14WT5	3500K	2'x2' VOLUMETRIC	LITHONIA	2RT5-14T5-MVOLT-GEB115-LP835	277	R	LG			METALUX ACCORD	
D	2	32WT8	-	4' STRIP	LITHONIA	DMW-2-32-277-GEB10IS	277	V	ES			METALUX VT3	
E1	-	LED	3500K	RECESSED DOWNLIGHT	LITHONIA	DOM6LED-900L-35K-277-D06	277	R	LG			HALO ML56	
E2	-	LED	3500K	CANOPY RECESSED DOWNLIGHT	LITHONIA	DOM6LED-900L-35K-277-DL61	277	R	LG			HALO ML56	
F	2	32WT8	-	1'X4" HEAVY DUTY	LITHONIA	SL-2-32-277	277	S	ES			METALUX SMF	
G	-	LED	3500K	SHOWER LIGHT	LITHONIA	DOM6LED-900L-35K-277-DL61	277	R	LG			HALO ML56	
H	-	LED	-	EXTERIOR WALL BRACKET	LIGMAN	U31601-277-02	277	W	-			FC FCCSQ605	
J	-	LED	4000K	STAIRWELL	KENALL	TES5-48-50L40K-DCC-DV	277	W	-			LUMINAIRE TSL9	
K	-	LED	3500K	UNDERCABINET LIGHT	LITHONIA	UCL-3-LD2-35-A-12125-ED-277V-RSW	277	S	-			FAILSAFE UCL	
L	-	LED	3000K	PENDANT OVER COUNTER	BRUCK	135-721-1-CH-M-MP	277	P	LG			DESIGNPLAN ALPHA	
M	-	T8	3500K	PERIMETER WALL LIGHTING	LITE CONTROL	85N-2-T8-F-FP-CWM-ELB-277	277	R	LG			COOPER NEO-RAY	
N	-	LED	3500K	RECESSED WALL WASH	LITHONIA	LDN6-35-06-LW6-CL-277	277	R	LG			HALO ML56	
R	-	T5	3500K	3.5" LINEAR PENDANT	ARCHITECTURAL LIGHTING WORKS	LPL35S-I-1-HP7-3500-UNV-WH	277	P	LG			AXIS BMD	
Y	-	LED	3500K	6" LINEAR RECESSED	ARCHITECTURAL LIGHTING WORKS	LPLR6T-1-4'-1-HP7-3500-277-WH	277	P	LG			AXIS B6RLED	
Z	-	LED		PENDANT	LITE CONTROL	P-ID-3630BX39-21-2D-FP-TCWM-EKB-277	277	P	LG			ADVENT AIP8892	
AA1	-		3500K	ONDA SINGLE DOWNWARDS PENDANT	LEUCOS		277	P	LG				1
AA2	-		3500K	ONDA DOWNWARDS CENTRAL PENDANT	LEUCOS		277	P	LG				1
AA3	-		3500K	ONDA UPWARDS TERMINAL PENDANT	LEUCOS		277	P	LG				1
BB1	-	LED	3500K	3.5" LINEAR RECESSED WALL TO CEILING	ARCHITECTURAL LIGHTING WORKS	LPLR3.5T-1-HP7-3500-UNV-WH	277	R	V				1
BB2	-	LED	3500K	3.5" LINEAR RECESSED	ARCHITECTURAL LIGHTING WORKS	LPLR3.5T-1-HP7-3500-UNV-WH	277	R	LG				1
CC	-	LED		CANOPY UPLIGHT FOR SIGN	LITHONIA	DSXF1 LED	277	S	ES			LUMARK CROSSTOUR	
X1	-	LED		EXIT LIGHT - SINGLE FACE NO ARROWS	LITHONIA	LWM-W-3-R-120/277	277	S	LG			COOPER SURE-LITES	
X2	-	LED		EXIT LIGHT - SINGLE FACE ARROW LEFT	LITHONIA	LWM-W-3-R-120/277	277	W	-			COOPER SURE-LITES	
X3	-	LED		EXIT LIGHT - SINGLE FACE NO ARROWS	LITHONIA	LWM-W-3-R-120/277	277	W	-			COOPER SURE-LITES	
X4	-	LED		EXIT LIGHT - DOUBLE FACE ARROW RIGHT, ARROW LEFT	LITHONIA	LWM-W-3-R-120/277	277	S	LG			COOPER SURE-LITES	
X5	-	LED		EXIT LIGHT - DOUBLE FACE ARROW RIGHT AND LEFT	LITHONIA	LWM-W-3-R-120/277	277	S	LG			COOPER SURE-LITES	
X6	-	LED		EXIT LIGHT - SINGLE FACE ARROW RIGHT	LITHONIA	LWM-W-3-R-120/277	277	S	LG			COOPER SURE-LITES	
X7	-	LED		EXIT LIGHT - SINGLE FACE ARROW RIGHT	LITHONIA	LWM-W-3-R-120/277	277	W	-			COOPER SURE-LITES	
X8	-	LED		EXIT LIGHT - SINGLE FACE ARROW LEFT	LITHONIA	LWM-W-3-R-120/277	277	S	LG			COOPER SURE-LITES	
X9	-	LED		EXIT LIGHT - SINGLE FACE ARROW RIGHT AND LEFT	LITHONIA	LWM-W-3-R-120/277	277	S	LG			COOPER SURE-LITES	
X10	-	LED		EXIT LIGHT - SINGLE FACE ARROW RIGHT AND LEFT	LITHONIA	LWM-W-3-R-120/277	277	W	-			COOPER SURE-LITES	

LIGHT FIXTURE SCHEDULE NOTES

1 NO SUBSTITUTIONS ACCEPTED.

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REVISIONS:
1 05/ 16/ 2014
2
3
4

DATE: 03/07/2014
PROJECT: 0230-13636
SITE NO: 365
BUILDING NO: 5600

E601

ELECTRICAL SCHEDULES

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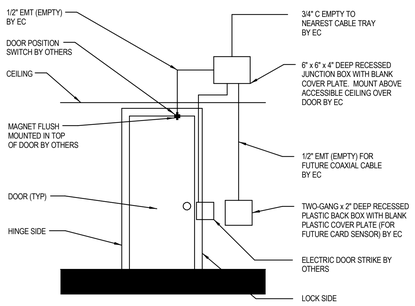
FEEDER SCHEDULE

FEEDER AMPACITY	CONDUCTOR SIZE (kcmil)		CONDUIT SIZE	
	PH AND N	GRD	(3) AND (3G)	(4) AND (4G)
5O	#8	#1O	3/4"	1"
7O	#4	#8	1-1/4"	1-1/4"
8O	#4	#8	1-1/4"	1-1/4"
1OO	#3	#8	1-1/4"	1-1/4"
11O	#2	#6	1-1/4"	1-1/2"
125	#1	#6	1-1/2"	2"
15O	#1/O	#6	1-1/2"	2"
175	#2/0	#6	2"	2"
2OO	#3/0	#6	2"	2-1/2"
225	#4/0	#4	2"	2-1/2"
25O	#250	#4	2-1/2"	3"
3OO	#350	#4	3"	3"
35O	#500	#3	3"	3-1/2"
38O	#500	#3	3"	3-1/2"
4OO	(2) #3/0	(2) #3	(2) 2"	(2) 2-1/2"
45O	(2) #4/0	(2) #2	(2) 2"	(2) 2-1/2"
5OO	(2) #250	(2) #2	(2) 2-1/2"	(2) 3"
6OO	(2) #350	(2) #1	(2) 3"	(2) 3"
7OO	(2) #500	(2) #1/0	(2) 3"	(2) 3-1/2"
8OO	(2) #600	(2) #1/0	(2) 3-1/2"	(2) 4"
1OOO	(3) #4OO	(3) #2/0	(3) 3"	(3) 3-1/2"
12OO	(3) 6OO	(3) #3/0	(3) 3-1/2"	(3) 4"
16OO	(4) 6OO	(4) #4/0	(4) 3-1/2"	(4) 4"
2OOO	(5) 6OO	(5) #25O	(5) 3-1/2"	(5) 4"

GENERAL NOTES:

1. THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.
2. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 31O-16 OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THWN.
3. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVERSIZED FOR VOLTAGE DROP.

2OO - 4G — FEEDER DESIGNATION
SYSTEM DESCRIPTION
(3) 3PH, 3W
(3G) 3PH, 3W + GRD
(4) 3PH, 4W
(4G) 3PH, 4W + GRD
CONDUCTOR AMPACITY (SEE FEEDER SCHEDULE)



NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE CONDUITS AND BOXES.
2. EMPTY CONDUITS TO CONTAIN NYLON PULL STRING ENTIRE LENGTH.
3. HARDWARE CONTRACTOR TO PROVIDE DOOR POSITION SWITCH, MAGNET, AND ELECTRIC DOOR STRIKE.
4. SEE ARCHITECTURAL DOOR SCHEDULE FOR DOORS REQUIRING SECURITY DEVICES.

2 DOOR SECURITY ROUGH IN
NTS

PANELBOARD SCHEDULE: MD/EM (EXISTING LIFE SAFETY)

VOLTAGE:	**480/277**	MAIN TYPE:	**MLO**
PHASE/WIRE:	**3P / 4W**	MAIN RATING:	
SVC. ENTRANCE LABEL:	**NO**	TVSS	**NO**
MINIMUM AIC:	**42,000 AMPS**	FEED-THRU LUGS:	**NO**
IS SERIES RATED ALLOWED:	**NO**	MOUNTING:	**SURFACE**

BUS MATERIAL:			
BUS RATING:			
ENCLOSURE:	**NEMA 1**		
200% NEUTRAL:	**NO**		
PANELBOARD TYPE:	**BRANCH CIRCUIT**		

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
1		EXISTING		20/1	A	A	20/1			EXISTING	2
3		EXISTING		20/1	B	B	20/1			EXISTING	4
5	L	EXIT LIGHTS - LEVEL 01	500	20/1	C	C	20/1	500	L	EXIT LIGHTS LEVEL 01	6
7		SPARE		20/1	A	A	20/1	1,250	L	EGRESS LIGHTINGS - LEVEL 01	8
9	L	EGRESS LIGHTING - LEVEL 01	2,400	20/1	B	B	20/1	500	L	EGRESS LIGHTING - LEVEL 02	10
11	E	TRANSFORMER 'EX'	5,000	30/3	C	C	20/1			SPARE	12
13	E	X	5,000	X	A	A	20/1			SPARE	14
15	E	X	5,000	X	B	B	20/1			SPARE	16
17		SPARE		20/1	C	C	20/1			SPARE	18
19		SPARE		20/1	A	A	20/1			SPARE	20
21		SPARE		20/1	B	B	20/1			SPARE	22
23		SPARE		20/1	C	C	20/1			SPARE	24
25		SPARE		20/1	A	A	20/1			SPARE	26
27		SPARE		20/1	B	B	20/1			SPARE	28
29		SPARE		20/1	C	C	20/1			SPARE	30
31					A	A					32
33					B	B					34
35					C	C					36
37					A	A					38
39					B	B					40
41					C	C					42

ABBREVATIONS:		PHASE	A	B	C		
ST	= SHUNT TRIP		6,250	7,900	6,000	TOTAL CONNECTED (VA):	**20,150**
GFCI	= GROUND FAULT CIRCUIT INTERRUPTOR					TOTAL CONNECTED (A):	**24.24**
HACR	= HEATING AND AIR-CONDITIONING RATED	LOAD TYPE ABBREVATIONS				TOTAL DEMAND (VA):	**20,150**
HB	= HANDLE-BLOCKING DEVICE	R = RECEPTACLE	M = MOTOR			TOTAL DEMAND (A):	**24.24**
		L = LIGHTING	LM = LARGEST MOTOR				
		E = EQUIPMENT	K = KITCHEN				

PANELBOARD SCHEDULE: MD/EX (LIFE SAFETY)

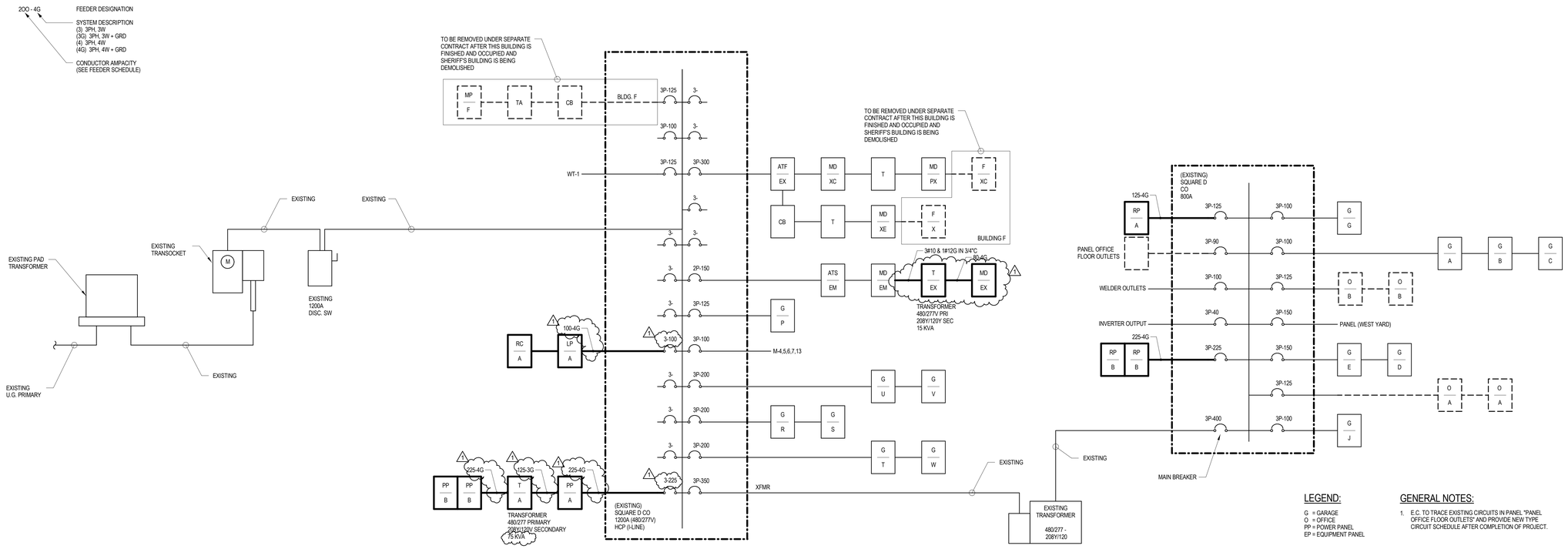
VOLTAGE:	**208/120**	MAIN TYPE:	**MCB**
PHASE/WIRE:	**3P / 4W**	MAIN RATING:	**80 AMPS**
SVC. ENTRANCE LABEL:	**NO**	TVSS	**NO**
MINIMUM AIC:	**42,000 AMPS**	FEED-THRU LUGS:	**NO**
IS SERIES RATED ALLOWED:	**NO**	MOUNTING:	**SURFACE**

BUS MATERIAL:	**COPPER**		
BUS RATING:	**100 AMPS**		
ENCLOSURE:	**NEMA 1**		
200% NEUTRAL:	**NO**		
PANELBOARD TYPE:	**BRANCH CIRCUIT**		

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
1	E	FIRE ALARM PANEL TELE RM ***		20/1	A	A	20/1	180	L	ELEV. PIT LIGHTING	2
3	E	AC	864	15/1	B	B	20/1			SPARE	4
5		SPARE		20/1	C	C	20/1			SPARE	6
7		SPARE		20/1	A	A	20/1			SPARE	8
9		SPARE		20/1	B	B	20/1			SPARE	10
11		SPARE		20/1	C	C	20/1			SPARE	12
13		SPARE		20/1	A	A	20/1			SPARE	14
15		SPARE		20/1	B	B	20/1			SPARE	16
17					C	C					18
19					A	A					20
21					B	B					22
23					C	C					24
25					A	A					26
27					B	B					28
29					C	C					30
31					A	A					32
33					B	B					34
35					C	C					36
37					A	A					38
39					B	B					40
41					C	C					42

ABBREVATIONS:		PHASE	A	B	C		
ST	= SHUNT TRIP		180	864	0	TOTAL CONNECTED (VA):	**1,044**
GFCI	= GROUND FAULT CIRCUIT INTERRUPTOR					TOTAL CONNECTED (A):	**2.90**
HACR	= HEATING AND AIR-CONDITIONING RATED	LOAD TYPE ABBREVATIONS				TOTAL DEMAND (VA):	**1,044**
HB	= HANDLE-BLOCKING DEVICE	R = RECEPTACLE	M = MOTOR			TOTAL DEMAND (A):	**2.90**
		L = LIGHTING	LM = LARGEST MOTOR				
		E = EQUIPMENT	K = KITCHEN				

PANEL SCHEDULE NOTES:
1. *** EXISTING CIRCUIT RELOCATED FROM "PANEL OFFICE FLOOR OUTLETS"



1 DISTRIBUTION LINE DIAGRAM
NTS

LEGEND:

G = GARAGE
O = OFFICE
PP = POWER PANEL
EP = EQUIPMENT PANEL

GENERAL NOTES:

1. E.C. TO TRACE EXISTING CIRCUITS IN PANEL "PANEL OFFICE FLOOR OUTLETS" AND PROVIDE NEW TYPE CIRCUIT SCHEDULE AFTER COMPLETION OF PROJECT.

MILWAUKEE COUNTY CENTRAL FLEET MAINTENANCE BUILDING MODIFICATION
CENTRAL FLEET MAINTENANCE BUILDING
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REVISIONS:
1. 05/ 16/ 2014
2.
3.
4.

DATE: 03/07/2014
PROJECT: 0230-13636
SITE NO: 365
BUILDING NO: 5600

E602

GRAEF

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PANELBOARD SCHEDULE: PP/A

VOLTAGE:	480/277	MAIN TYPE:	MLO	BUS MATERIAL:	COPPER
PHASE/WIRE:	3P / 4W	MAIN RATING:	350 AMPS	BUS RATING:	350 AMPS
SVC. ENTRANCE LABEL:	NO	TVSS	NO	ENCLOSURE:	NEMA 1
MINIMUM AIC:	42,000 AMPS	FEED-THRU LUGS:	YES	200% NEUTRAL:	NO
IS SERIES RATED ALLOWED:	NO	MOUNTING:	SURFACE	PANELBOARD TYPE:	BRANCH CIRCUIT

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
1	M	DOAS-1	12,422	50/3	A	A	35/3	9,683	M	VRF-1	2
3	M	X	12,422	X	B	B	X	9,683	M	X	4
5	M	X	12,422	X	C	C	X	9,683	M	X	6
7	M	VRF-2	11,066	40/3	A	A	40/3			SPARE	8
9	M	X	11,066	X	B	B	X				10
11	M	X	11,066	X	C	C	X				12
13		SPARE		35/3	A	A	35/3	9,683	M	VRF-5	14
15				X	B	B	X	9,683	M	X	16
17				X	C	C	X	9,683	M	X	18
19	M	VRF-6	11,066	40/3	A	A					20
21	M	X	11,066	X	B	B					22
23	M	X	11,066	X	C	C					24
25	E	TRANSFORMER "TA"	10,426	125/3	A	A					26
27	E	X	11,367	X	B	B					28
29	E	X	12,827	X	C	C					30
31					A	A					32
33					B	B					34
35					C	C					36
37					A	A					38
39					B	B					40
41					C	C					42

PHASE	A	B	C
	64,346	65,287	66,747

TOTAL CONNECTED (VA): 196,380
TOTAL CONNECTED (A): 236.21
TOTAL DEMAND (VA): 196,380
TOTAL DEMAND (A): 236.21

ABBREVATIONS:
ST = SHUNT TRIP
GFCI = GROUND FAULT CIRCUIT INTERRUPTOR
HACR = HEATING AND AIR-CONDITIONNG RATED
HB = HANDLE-BLOCKING DEVICE

LOAD TYPE ABBREVIATIONS
R = RECEPTACLE
L = LIGHTING
E = EQUIPMENT
M = MOTOR
LM = LARGEST MOTOR
K = KITCHEN

PANELBOARD SCHEDULE: PP/B (TUB 1)

VOLTAGE:	208/120	MAIN TYPE:	MLO	BUS MATERIAL:	COPPER
PHASE/WIRE:	3P / 4W	MAIN RATING:	225 AMPS	BUS RATING:	225 AMPS
SVC. ENTRANCE LABEL:	NO	TVSS	NO	ENCLOSURE:	NEMA 1
MINIMUM AIC:	42,000 AMPS	FEED-THRU LUGS:	YES	200% NEUTRAL:	NO
IS SERIES RATED ALLOWED:	NO	MOUNTING:	SURFACE	PANEL TYPE	BRANCH CIRCUIT

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
1	M	EXHAUST FAN EF-1	864	20/1	A	A	20/2	1,040	E	HP-01 THRU HP-04	2
3		SPARE		20/1	B	B	X	1,040	E	X	4
5	M	PUMP P-1	696	20/1	C	C	20/2	1,040	E	HP-05 THRU HP-08	6
7		SPARE		20/1	A	A	X	1,040	E	X	8
9	M	PUMP P-3	696	20/1	B	B	20/1			SPARE	10
11	M	ACCU-1/AC-1	3,952	30/2	C	C	20/1			SPARE	12
13	M	X	3,952	X	A	A	20/1			SPARE	14
15	M	ACCU-2/AC-2	3,952	30/2	B	B	20/1			SPARE	16
17	M	X	3,952	X	C	C	20/1			SPARE	18
19	E	HR-1 THRU HR-5	83	20/2	A	A	20/1			SPARE	20
21	E	X	83	X	B	B	20/2	1,040	E	HP-22 THRU HP-25	22
23	E	HR-6 THRU HR-9	67	20/2	C	C	X	1,040	E	X	24
25	E	X	67	X	A	A	20/2	1,040	E	HP-26 THRU HP-30	26
27	E	UNIT HEATERS - LEVEL 2	1,176	20/1	B	B	X	1,040	E	X	28
29		SPARE		20/1	C	C	20/2	1,040	E	HP-31 THRU HP-34	30
31		SPARE		20/1	A	A	X	1,040	E	X	32
33		SPARE		20/1	B	B	20/2	1,040	E	HP-35 THRU HP-38	34
35		SPARE		20/1	C	C	X	1,040	E	X	36
37					A	A	20/2	1,300	E	HP-39 THRU HP-43	38
39					B	B	X	1,300	E	X	40
41					C	C	20/1			SPARE	42

PHASE	A	B	C
	10,426	11,367	12,827

TUB 1 CONNECTED (VA): 34,620
TUB 1 CONNECTED (A): 96.09
TOTAL CONNECTED (VA): 40,188
TOTAL CONNECTED (A): 111.55
TOTAL DEMAND (VA): 40,188
TOTAL DEMAND (A): 111.55

ABBREVATIONS:
ST = SHUNT TRIP
GFCI = GROUND FAULT CIRCUIT INTERRUPTOR
HACR = HEATING AND AIR-CONDITIONNG RATED
HB = HANDLE-BLOCKING DEVICE

LOAD TYPE ABBREVIATIONS
R = RECEPTACLE
L = LIGHTING
E = EQUIPMENT
M = MOTOR
LM = LARGEST MOTOR
K = KITCHEN

PANELBOARD SCHEDULE: PP/B (TUB 2)

VOLTAGE:	208/120	MAIN TYPE:	MLO	BUS MATERIAL:	COPPER
PHASE/WIRE:	3P / 4W	MAIN RATING:	225 AMPS	BUS RATING:	225 AMPS
SVC. ENTRANCE LABEL:	NO	TVSS	NO	ENCLOSURE:	NEMA 1
MINIMUM AIC:	42,000 AMPS	FEED-THRU LUGS:	NO	200% NEUTRAL:	NO
IS SERIES RATED ALLOWED:	NO	MOUNTING:	SURFACE	PANEL TYPE:	BRANCH CIRCUIT

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
43	E	CUH-1	696	20/1	A	A	20/1			SPARE	44
45	E	CUH-2	696	20/1	B	B	20/1			SPARE	46
47	E	CUH-3	696	20/1	C	C	20/1			SPARE	48
49	E	CUH-4	696	20/1	A	A	20/1			SPARE	50
51	E	CUH-5	696	20/1	B	B					52
53	E	CUH-6	696	20/1	C	C					54
55	E	CUH-7	696	20/1	A	A					56
57	E	CUH-8	696	20/1	B	B					58
59		SPARE		20/1	C	C					60
61		SPARE		20/1	A	A					62
63		SPARE		20/1	B	B					64
65		SPARE		20/1	C	C					66
67					A	A					68
69					B	B					70
71					C	C					72
73					A	A					74
75					B	B					76
77					C	C					78
79					A	A					80
81					B	B					82
83					C	C					84

PHASE	A	B	C
	10,426	11,367	12,827

TUB 2 CONNECTED (VA): 5,568
TUB 2 CONNECTED (A): 15.46

ABBREVATIONS:
ST = SHUNT TRIP
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HACR = HEATING AND AIR-CONDITIONNG RATED
HB = HANDLE-BLOCKING DEVICE

LOAD TYPE ABBREVIATIONS
R = RECEPTACLE
L = LIGHTING
E = EQUIPMENT
M = MOTOR
LM = LARGEST MOTOR
K = KITCHEN

PANELBOARD SCHEDULE: RP/A

VOLTAGE:	208/120	MAIN TYPE:	MLO	BUS MATERIAL:	COPPER
PHASE/WIRE:	3P / 4W	MAIN RATING:	125 AMPS	BUS RATING:	125 AMPS
SVC. ENTRANCE LABEL:	NO	TVSS	NO	ENCLOSURE:	NEMA 1
MINIMUM AIC:	42,000 AMPS	FEED-THRU LUGS:	YES	200% NEUTRAL:	NO
IS SERIES RATED ALLOWED:	NO	MOUNTING:	SURFACE	PANELBOARD TYPE:	BRANCH CIRCUIT

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
1	R	PARTITIONS SP-9	1,080	20/1	A	A	20/1	1,080	R	PARTITIONS SP-9	2
3	R	PARTITIONS SP-9	1,080	20/1	B	B	20/1	360	R	OUTSIDE RECEPTACLES	4
5	R	OUTSIDE RECEPTACLES	720	20/1	C	C	20/1	1,080	R	RECEPT. RM 108, 108A	6
7	R	RECEPTS. RM 105	900	20/1	A	A	20/1	1,800	R	RECEPT. RM 106, 106E, 107, 109, 110, 112, 115, 123	8
9	R	RECEPTS. RM 106B, 106C, 106D, 108	1,440	20/1	B	B	20/1	500	E	COPIER SP-2	10
11	R	TV RECEPT. RM 106B	540	20/1	C	C	20/1	540	R	TV RECEPT. RM 106B	12
13	R	RECEPT. OFFICE 113	1,080	20/1	A	A	20/1	1,080	R	RECEPT. RM 114	14
15	R	RECEPT. OFFICE 117	1,080	20/1	B	B	20/1	500	E	CONTROL PANEL	16
17	E	SUN GLASS CONTROL ENCLOSURE LVL 1	500	20/1	C	C	20/1	1,080	R	PARTITION SP-80	18
19	E	LAVATORY FAUCET	500	20/1	A	A	20/1	500	E	ADA OPERATOR	20
21	E	SUN GLASS CONTROL ENCLOSURE LVL 2	500	20/1	B	B	20/1	500	E	ADA OPERATOR	22
23	E	COPIER SP-2	500	20/1	C	C	20/1	500	R	MICROWAVE SP-8	24
25	R	RECEPT. RM 103A, 161	1,260	20/1	A	A	20/1	1,260	R	RECEPT. RM 125	26
27	R	RECEPT. RM 106E	720	20/1	B	B	20/1	360	R	RECEPT. RM 106E	28
29	R	RECEPT. RM 119, 120, 122	900	20/1	C	C	20/1	500	E	COPIER SP-2	30
31	R	WATER COOLER RM 106E	180	20/1	A	A	20/1			FAN ***	32
33	M	CAMD EQH FAN ***		20/3	B	B	20/1			TOOL ROOM ***	34
35	M	X		X	C	C	20/1	1,260	R	LEVEL 2 RECEPTACLES	36
37	M	X		X	A	A	20/1			SPARE	38
39		SPARE		20/1	B	B	20/1			SPARE	40
41					C	C					42

PHASE	A	B	C
	10,720	7,040	8,120

TOTAL CONNECTED (VA): 25,880
TOTAL CONNECTED (A): 71.84
TOTAL DEMAND (VA): 20,190
TOTAL DEMAND (A): 56.04

ABBREVATIONS:
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LOAD TYPE ABBREVIATIONS
R = RECEPTACLE
L = LIGHTING
E = EQUIPMENT
M = MOTOR
LM = LARGEST MOTOR
K = KITCHEN

PANEL SCHEDULE NOTES:
1. ***CIRCUITS RELOCATED FROM "PANEL OFFICE FLOOR OUTLETS."

PANELBOARD SCHEDULE: RP/B (TUB 1)

VOLTAGE:	208/120	MAIN TYPE:	MLO	BUS MATERIAL:	COPPER
PHASE/WIRE:	3P / 4W	MAIN RATING:	225 AMPS	BUS RATING:	225 AMPS
SVC. ENTRANCE LABEL:	NO	TVSS	NO	ENCLOSURE:	NEMA 1
MINIMUM AIC:	42,000 AMPS	FEED-THRU LUGS:	YES	200% NEUTRAL:	NO
IS SERIES RATED ALLOWED:	NO	MOUNTING:	SURFACE	PANEL TYPE	BRANCH CIRCUIT

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
1	R	RECEPTACLES RM 163	1,440	20/1	A	A	20/1	360	R	REFRIGERATORS RM 163	2
3	R	VENDING RECEPT. RM 163A	360	20/1	B	B	20/1	360	R	VENDING RECEPT. RM 163A	4
5	R	RECEPT. RM. 130A, 162, 134, 135, SP-1	1,080	20/1	C	C	20/1	1,440	R	RECEPT. RM 133	6
7	R	RECEPT. RM 136, 137, 144, 160	1,080	20/1	A	A	20/1	1,080	R	RECEPT. RM 127	8
9	R	RECEPT. RM 130	1,440	20/1	B	B	20/1	1,260	R	RECEPT. RM 124, 126, 129, 131	10
11	R	RECEPT. RM 128, 129	1,440	20/1	C	C	20/1	500	E	COPIER	12
13	R	RECEPT. RM 129, 131, 139, 141A	1,080	20/1	A	A	20/1	720	R	OUTSIDE RECEPTACLES	14
15	R	RECEPT. RM 141B, 149, 148	1,260	20/1	B	B	20/1	360	R	REFRIGERATORS RM 149	16
17	R	MICROWAVE - RM 149	180	20/1	C	C	20/1	1,620	R	RECEPT. RM 145A, 146, 147	18
19	R	RECEPT. RM 147, 147A	540	20/1	A	A	20/1	180	R	RECEPT. RM 147	20
21	R	RECEPT. RM 150, 153	1,640	20/1	B	B	20/1	180	E	RECEPT. ON ROOF SP-29	22
23	R	RECEPT. RM 153, 156, 157	1,080	20/1	C	C	20/1	360	R	VENDING RECEPT. RM 157	24
25	R	VENDING RECEPT. RM 157	360	20/1	A	A	20/1	360	R	REFRIGERATORS RM 153	26
27	R	MICROWAVE RM 153	180	20/1	B	B	20/1	180	R	MICROWAVE RM 153	28
29	R	PARITION SP-85	720	20/1	C	C	20/1	360	R	PARITION SP-85	30
31	R	PARITION SP-85	1,620	20/1	A	A	20/1	1,080	R	PARITION SP-85	32
33	R	RECEPT. RM 147	180	20/1	B	B	20/1	540	R	RECEPT. RM 139	34
35	R	PARITION SP-85	1,620	20/1	C	C	20/1	1,620	R	PARITION SP-85	36
37	R	PARITION SP-85	1,080	20/1	A	A	20/1	540	R	PARITION SP-85	38
39	R	WIREMOLD - GO BAGS 149	900	20/1	B	B	20/1	900	R	WIREMOLD - GO BAGS 149	40
41	R	WIREMOLD - GO BAGS 149	900	20/1	C	C	20/1	900	R	WIREMOLD - GO BAGS 149	42

PHASE	A	B	C
	11,520	9,740	13,820

TUB 1 CONNECTED (VA): 35,080
TUB 1 CONNECTED (A): 97.37
TOTAL CONNECTED (VA): 64,780
TOTAL CONNECTED (A): 179.81
TOTAL DEMAND (VA): 39,980
TOTAL DEMAND (A): 110.97

ABBREVATIONS:
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HB = HANDLE-BLOCKING DEVICE

LOAD TYPE ABBREVIATIONS
R = RECEPTACLE
L = LIGHTING
E = EQUIPMENT
M = MOTOR
LM = LARGEST MOTOR
K = KITCHEN

PANELBOARD SCHEDULE: RP/B (TUB 2)

VOLTAGE:	208/120	MAIN TYPE:	MLO	BUS MATERIAL:	COPPER
PHASE/WIRE:	3P / 4W	MAIN RATING:	225 AMPS	BUS RATING:	225 AMPS
SVC. ENTRANCE LABEL:	NO	TVSS	NO	ENCLOSURE:	NEMA 1
MINIMUM AIC:	42,000 AMPS	FEED-THRU LUGS:	NO	200% NEUTRAL:	NO
IS SERIES RATED ALLOWED:	NO	MOUNTING:	SURFACE	PANEL TYPE:	BRANCH CIRCUIT

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
43	R	WIREMOLD - GO BAGS 149	900	20/1	A	A	20/1	900	R	WIREMOLD - GO BAGS 149	44
45	R	IN LOCKERS	1,260	20/1	B	B	20/1	1,080	R	IN LOCKERS	46
47	R	IN LOCKERS	1,080	20/1	C	C	20/1	1,080	R	IN LOCKERS	48
49	R	IN LOCKERS	1,080	20/1	A	A	20/1	1,080	R	IN LOCKERS	50
51	R	IN LOCKERS	1,080	20/1	B	B	20/1	1,080	R	IN LOCKERS	52
53	R	IN LOCKERS	1,080	20/1	C	C	20/1	1,260	R	IN LOCKERS	54
55	R	IN LOCKERS	1,080	20/1	A	A	20/1	1,080	R	IN LOCKERS	56
57	R	IN LOCKERS	900	20/1	B	B	20/1	900	R	IN LOCKERS	58
59	R	IN LOCKERS	900	20/1	C	C	20/1	1,080	R	IN LOCKERS	60
61	R	IN LOCKERS	900	20/1	A	A	20/1	900	R	IN LOCKERS	62
63	R	IN LOCKERS	1,260	20/1	B	B	20/1	1,260	R	IN LOCKERS	64
65	R	IN LOCKERS	1,080	20/1	C	C	20/1	180	R	MICROWAVE RM 164A	66
67	E	COPIER	500	20/1	A	A	20/1	500	E	COPIER	68
69	R	MICROWAVE RM 164A	180	20/1	B	B	20/1	180	R	RECEPT. RM 147	70
71	R	RECEPT. RM 147	180	20/1	C	C	20/1	500	E	CONTROL PANEL	72
73	R	RECEPT. NEAR DOAS-1 ON ROOF	180	20/1	A	A	20/1	500	E	LAVATORY FAUCETS	74
75	E	LAVATORY FAUCETS	500	20/1	B	B	20/1	500	E	LAVATORY FAUCETS	76
77	E	LAVATORY FAUCETS	500	20/1	C	C	20/1	500	E	LAVATORY FAUCETS	78
79	E	LAVATORY FAUCETS	500	20/1	A	A	20/1			SPARE	80
81		SPARE		20/1	B	B	20/1			SPARE	82
83					C	C					84

PHASE	A	B	C
	11,520	9,740	13,820

TUB 2 CONNECTED (VA): 29,700
TUB 2 CONNECTED (A): 82.44

ABBREVATIONS:
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LOAD TYPE ABBREVIATIONS
R = RECEPTACLE
L = LIGHTING
E = EQUIPMENT
M = MOTOR
LM = LARGEST MOTOR
K = KITCHEN

PANELBOARD SCHEDULE: LP/A

VOLTAGE:	480/277	MAIN TYPE:	MLO	BUS MATERIAL:	COPPER
PHASE/WIRE:	3P / 4W	MAIN RATING:	100 AMPS	BUS RATING:	100 AMPS
SVC. ENTRANCE LABEL:	NO	TVSS	NO	ENCLOSURE:	NEMA 1
MINIMUM AIC:	42,000 AMPS	FEED-THRU LUGS:	NO	200% NEUTRAL:	NO
IS SERIES RATED ALLOWED:	NO	MOUNTING:	SURFACE	PANELBOARD TYPE:	BRANCH CIRCUIT

CCT #	LOAD TYPE	LOAD DESCRIPTION	VA	TRIP / POLE			TRIP / POLE	VA	LOAD TYPE	LOAD DESCRIPTION	CCT #
1	L	LIGHTING - LEVEL 1	2,050	20/1	A	A	20/1	2,100	L	LIGHTING - LEVEL 1	2
3	L	LIGHTING - LEVEL 1	2,700	20/1	B	B	20/1	1,250	L	LIGHTING - LEVEL 1	4
5	L	LIGHTING - LEVEL 1	2,000	20/1	C	C	20/1	2,100	L	LIGHTING - LEVEL 1	6
7	L	LIGHTING - LEVEL 1	1,750	20/1	A	A	20/1	2,000	L	LIGHTING - LEVEL 1	8
9	L	LIGHTING - LEVEL 1	1,750	20/1	B	B	20/1	700	L	LIGHTING - LEVEL 1	10
11	L	LIGHTING - LEVEL 2	1,100	20/1	C	C	20/1			SPARE	12
13		SPARE		20/1	A	A	20/1			SPARE	14
15		SPARE		20/1	B	B	20/1			SPARE	16
17		SPARE		20/1	C	C	20/1			SPARE	18
19		SPARE		20/1	A	A	20/1			SPARE	20
21		SPARE		20/1	B	B	20/1			SPARE	22
23		SPARE		20/1	C	C	20/1			SPARE	24
25		SPARE		20/1	A	A	20/1			SPARE	26
27		SPARE		20/1	B	B	20/1			SPARE	28
29					C	C					30
31					A	A					32
33					B	B					34
35					C	C					36
37					A	A					38
39					B	B					40
41					C	C					42

PHASE	A	B	C
	7,900	6,400	5,200

TOTAL CONNECTED (VA): 19,500
TOTAL CONNECTED (A): 23.45
TOTAL DEMAND (VA): 19,500
TOTAL DEMAND (A): 23.45

ABBREVATIONS:
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MILWAUKEE COUNTY CENTRAL FLEET MAINTENANCE BUILDING MODIFICATION
CENTRAL FLEET MAINTENANCE BUILDING
10320 W. WATERTOWN PLANK ROAD, WAUWATOSA, WISCONSIN 53226

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FACILITIES MANAGEMENT DIVISION
Architectural, Engineering & Environmental Services
CITY CAMPUS 2711 W. WELLS ST, 2ND FLOOR MILWAUKEE, WI 53208

REVISIONS:
1 05/ 16/ 2014
2
3
4

DATE: 03/07/2014
PROJECT: 0230-13636
SITE NO: 365
BUILDING NO: 5600

E603

PANELBOARD SCHEDULES