

## SCHOOL OF SOCIAL WORK

5447 WOODWARD DETROIT, MI 48202

ADDENDUM 1 - 20 January 2015

HAMILTON ANDERSON PROJECT NUMBER: 2013088.01 WAYNE STATE UNIVERSITY PROJECT NUMBER: 063-233732

#### HamiltonAnderson architecture landscape architecture urban design

Hamilton Anderson Associates, Inc 1435 Randolph Suite 200 Detroit, Michigan 48226 p 313 964 0270 f 313 964 0170 www.hamilton-anderson.com

# LOCATION MAP: DESAI/NASR CONSULTING **ENGINEERS**

#### PROJECT CONTACTS:

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PETER BASSO ASSOCIATES 5145 LIVERNOIS TROY, MI 48098 248.879.5666 www.pbanet.com

#### STRUCTURAL ENGINEER:

6765 DALY RD WEST BLOOMFIELD, MI 48322 313.932.2010 www.desainasr.com

TERRAZZO STAIR &

LANDING TO REMAIN.

FIRST FLOOR DEMOLITION PLAN

#### **DEMOLITION SCOPE**

WHERE CEILING IS INDICATED TO REMAIN: REMOVE ALL CEILING MOUNTED EQUIPMENT. REMOVE DUST, DIRT AND DEBRIS. REMOVE ALL LOOSE AND PEELING PAINT FROM PLASTER OR GYP BOARD CEILINGS BY SCRAPING.

REMOVE ALL CEILINGS & SOFFITS UNLESS OTHERWISE INDICATED: REMOVE ALL CEILING MOUNTED EQUIPMENT, RAILS, LIGHTS, GRILLES, PANELS, TILES, FRAMING AND SUSPENSION SYSTEMS. REMOVE ALL ORIGINAL PLASTER AND LATH CEILINGS TO EXPOSE CONCRETE STRUCTURE

⟨ C.3 ⟩ PLASTER CEILINGS IN STAIRWELLS AND LANDINGS TO REMAIN. U.N.O.

WHERE COLUMNS AND EXISTING PLASTER, GYP BOARD, CMU OR CONCRETE WALLS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.

WHERE TILE ON WALLS OR COLUMNS IS INDICATED TO REMAIN, GENTLY CLEAN WITH WATER AND DETERGENT.

W.3 REMOVE EXISTING TILE AND GROUT FROM WALLS REMOVE EXISTING WALL PANELS AND FASTENERS. PATCH

W.4 ALL HOLES AND PREP WALL FOR NEW FINISH.

EXISTING BRICK WALL TO REMAIN. REMOVE ANY ITEMS AFFIXED TO WALL

FEATURE WALL TO REMAIN; GENTLY CLEAN HAND PAINTED

#### FLOORS:

EXISTING VINYL/RESILIENT OR LINOLEUM TILE INDICATED TO REMAIN: REMOVE ALL DEBRIS, DUST AND DIRT. CLEAN WITH WATER AND DETERGENT. PREPARE SURFACE FOR NEW FINISH.

REMOVE ALL EXISTING CERAMIC OR CLAY TILE FLOORS AND ⟨ F.2 ⟩ BASE DOWN TO STRUCTURAL SLAB. PREPARE SURFACE FOR NEW FINISH

REMOVE EXISTING WALL BASE, AND REMOVE FLOOR FINISH DOWN TO STRUCTURAL SLAB. PREPARE FLOOR FOR NEW FINISH.

REMOVE ALL CARPET, WALL BASE AND ADHESIVE DOWN TO STRUCTURAL SLAB.

#### **OPENINGS**:

WHERE EXISTING PAINTED AND FRAMED DOORS ARE TO REMAIN: O.1 REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED IN THE DOOR SCHEDULE.

REMOVE DOOR, HARDWARE AND FRAME IN ITS ENTIRETY. REMOVE SIDELIGHTS & TRANSOMS WHERE APPLICABLE.

WHERE WINDOWS ARE INDICATED TO REMAIN: REMOVE ALL ⟨ O.3 ⟩ LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER

AND DETERGENT. REMOVE DOOR, FRAME TO REMAIN. REPLACE SOLID TRANSOM

EXISTING STAINED DOORS ARE TO BE REMOVED & NUMBERED ⟨ O.5 ⟩ FOR REINSTALLATION OR RELOCATION. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED; PREP AND REFINISH

REMOVE INDICATED PORTION OF THE PARTITION FOR INSTALLATION OF NEW LINTEL AND FRAME; SEE DOOR SCHEDULE SHEET A7.1.0 FOR DOOR SIZES AND SHEET A7.4.2 FOR NEW

ALL CABINETRY AND MILLWORK IS TO BE REMOVED IN ITS ENTIRETY.

REMOVE PLUMBING, KITCHEN EQUIPMENT, CABINETS AND COUNTER TOPS COMPLETE

ALL SINKS, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, TUB/SHOWERS AND WALL-MOUNTED TOILET ROOM ACCESSORIES ARE TO BE REMOVED. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

> REMOVE TOILET PARTITIONS AND SUPPORTS

SLAB ABOVE &/OR BELOW; SEE SHEET A7.5.2

⟨ M.5 ⟩ REMOVE LOCKERS & RAISED BASE

⟨M.6⟩ REMOVE WOOD CUBBIES

REMOVE DUMBWAITER AND SHAFT

REMOVE MECHANICAL SHAFT; FILL HOLES IN CONCRETE

PANELS WITH GLASS WHERE APPLICABLE.

OWNER IS RESPONSIBLE FOR HAZARDOUS MATERIAL REMEDIATION TO BE COMPLETED PRIOR TO THE START OF GENERAL DEMOLITION.

#### **DEMOLITION GENERAL NOTES**

1. CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.

2. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT

3. VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION, NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.

4. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS

5. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK

AND OTHER CONTRACTORS RETAINED BY THE OWNER.

6. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH **DEMOLITION & CONSTRUCTION.** 

7. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS

8. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.

9. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY

10. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.

11. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

14. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION

12. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES. 13. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING,

AND FRAMES, THAT ARE TO REMAIN (TYP.)

REQUIREMENTS.

#### **DEMOLITION LEGEND**

REMOVE WALL COMPLETE

**EXISTING STUD CONSTRUCTION TO REMAIN** 

EXISTING CMU CONSTRUCTION TO REMAIN REMOVE DOOR, FRAME, AND HARDWARE COMPLETE

EXISTING DOOR AND FRAME TO REMAIN

TERRAZZO STAIR / LANDING

#### MISC. CONT.:

PER ELEVATOR CONTRACTOR, REMOVE SELECTIVE **ELEVATOR EQUIPMENT & CAB FOR REPLACEMENT** INCLUDING:

> 1. POWER UNITS, CONTROLLER, PUMP UNIT, DOOR OPERATOR, HATCH DOOR EQUIPMENT AND RELATED EQUIPMENT/FIXTURES

2. CAB ALTERNATIVES: A. REMOVE EXISTING CAB FOR REPLACEMENT B. NEW CAB INTERIOR ONLY

3. PROVIDE AN ALTERNATIVE FOR REMOVING & REPLACING THE JACK ASSEMBLY

#### **GENERAL:**

1. ALL SURFACES THAT ARE TO REMAIN ARE TO BE CLEANED W/ WATER & DETERGENT PRIOR TO INSTALLATION OF NEW FINISHES

2. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

3. WHEN REMOVING MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, REMOVE ALL ASSOCIATED FASTENERS, CABLE, RODS, ETC.

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## WAYNE STATE JNIVERSITY

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5454 Cass Avenue Detroit, Michigan

Key Plan

20 JAN 2015

19 DEC 2014

26 NOV 2014

31 OCT 2014

08 OCT 2014

26 AUG 2014

ADDENDUM · FOR BIDS 98% CONSTRUCTION DOCUMENTS 50% CONSTRUCTION DOCUMENTS **DESIGN DEVELOPMENT** SCHEMATIC DESIGN

SCHOOL OF SOCIAL **WORK** 5447 Woodward, Detroit, MI

**FIRST LEVEL** 

**DEMOLITION PLAN** 

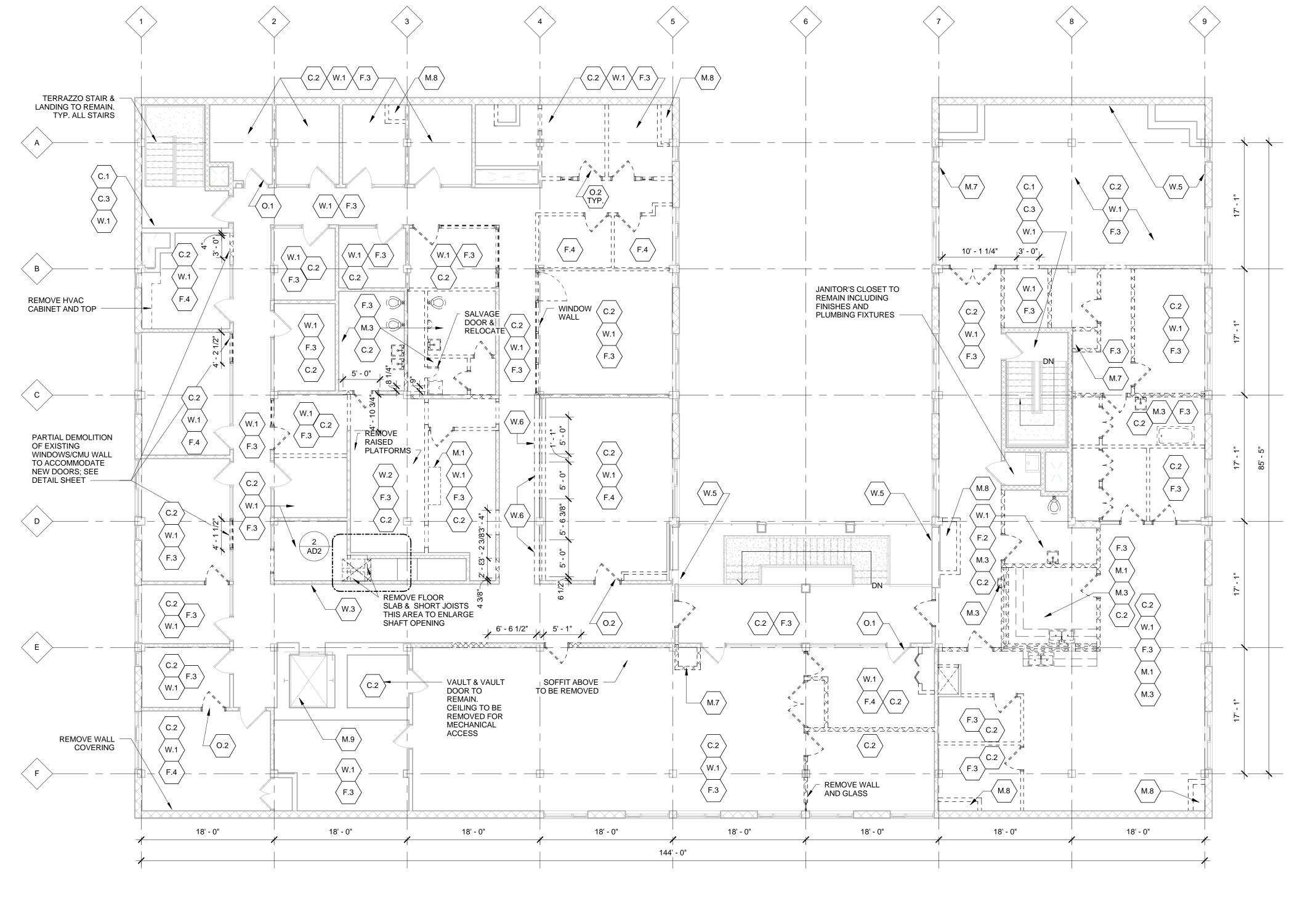
eject Number: 2013088.01	WSU Project No: 063-2337

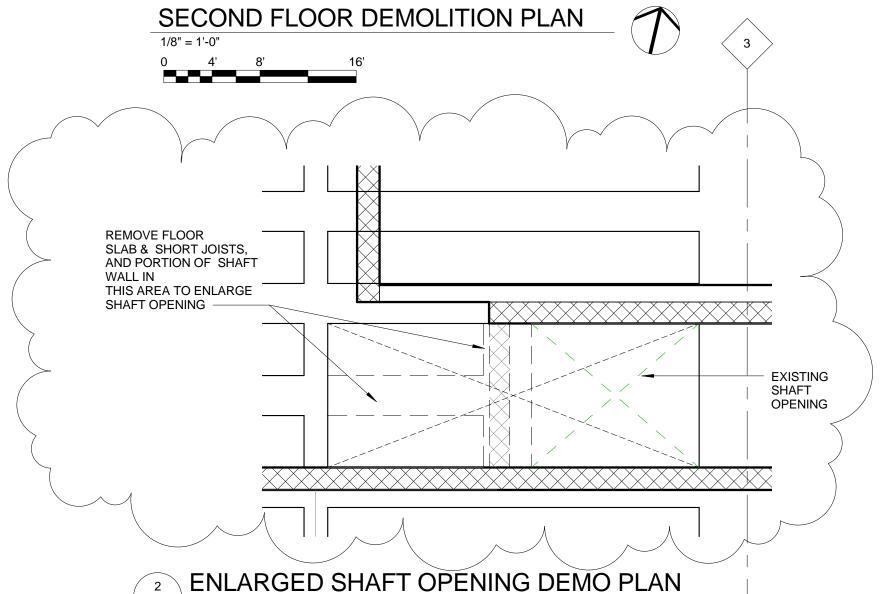
Approved By: RH Drawn By: JF

Scale: 1/8" = 1'-0"

Seal:

Signature:





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- ⟨ W.2 ⟩ WHERE TILE ON WALLS OR COLUMNS IS INDICATED TO REMAIN, GENTLY CLEAN WITH WATER AND DETERGENT.
- W.3 > REMOVE EXISTING TILE AND GROUT FROM WALLS
- REMOVE EXISTING WALL PANELS AND FASTENERS. PATCH ALL HOLES AND PREP WALL FOR NEW FINISH.
- EXISTING BRICK WALL TO REMAIN. REMOVE ANY ITEMS W.5 AFFIXED TO WALL
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AND FRAMES.

REQUIREMENTS.

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architecture landscape architecture urban design

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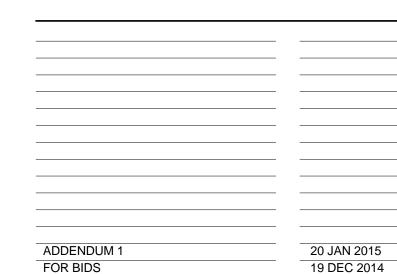
Desai/Nasr Consulting Engineer 6765 Daly Rd West Bloomfield, MI 48322 248.932.2010

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Key Plan



98% CONSTRUCTION DOCUMENTS 50% CONSTRUCTION DOCUMENTS **DESIGN DEVELOPMENT** SCHEMATIC DESIGN

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**SECOND LEVEL** 

**DEMOLITION PLAN** 

Project Number: 2013088.01 WSU Project No: 063-233732

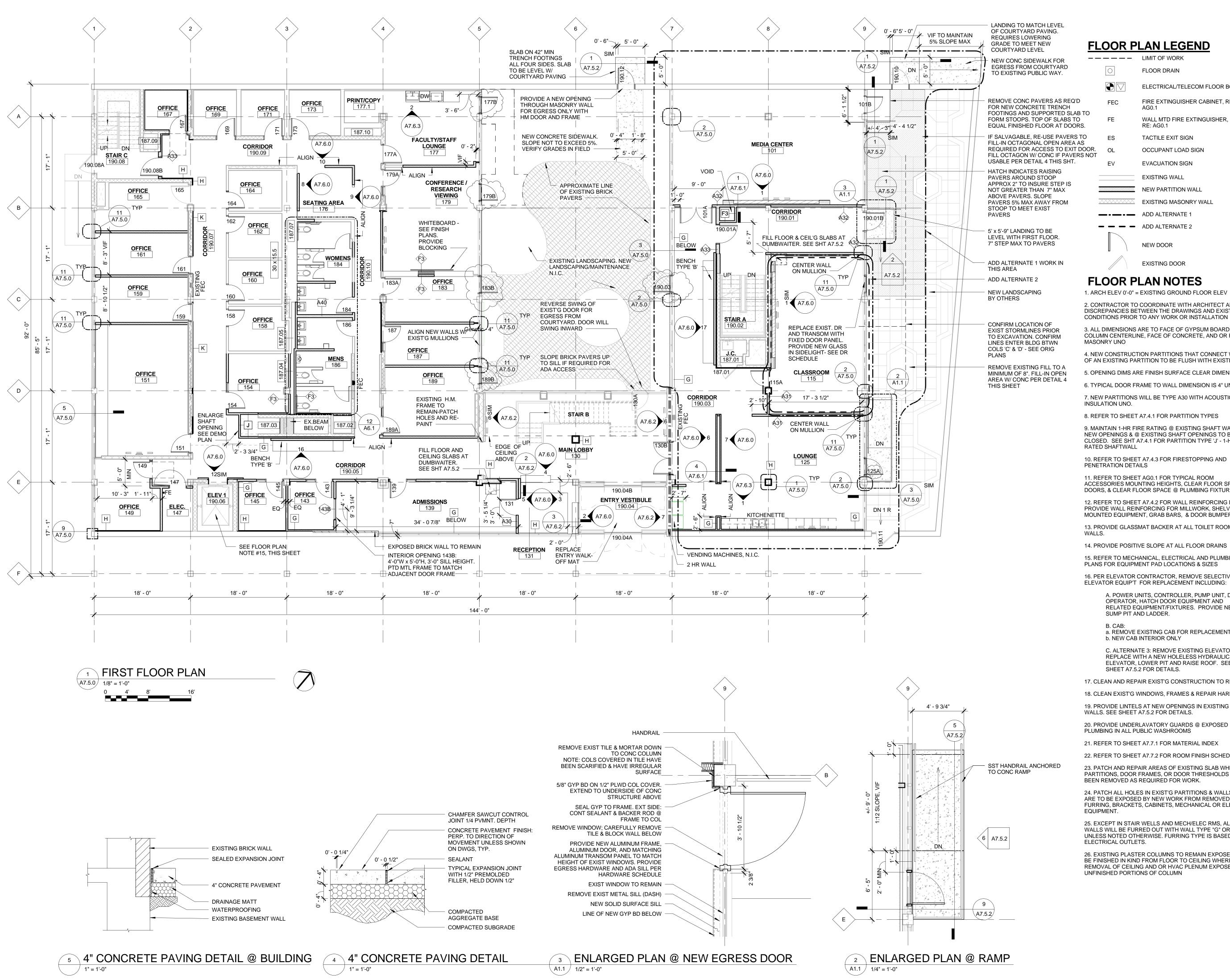
Drawn By: JF

Approved By: RH

Scale: As indicated

Signature:





#### FLOOR PLAN LEGEND

---- LIMIT OF WORK FLOOR DRAIN ELECTRICAL/TELECOM FLOOR BOX FIRE EXTINGUISHER CABINET, RE: FE WALL MTD FIRE EXTINGUISHER, RE: AG0.1 TACTILE EXIT SIGN OCCUPANT LOAD SIGN **EVACUATION SIGN** EXISTING WALL **NEW PARTITION WALL EXISTING MASONRY WALL** — • — ADD ALTERNATE 1 **— — —** ADD ALTERNATE 2 **NEW DOOR** 

#### **FLOOR PLAN NOTES**

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV

2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING

**EXISTING DOOR** 

3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF

MASONRY UNO 4. NEW CONSTRUCTION PARTITIONS THAT CONNECT W/ END

OF AN EXISTING PARTITION TO BE FLUSH WITH EXISTING UNO. 5. OPENING DIMS ARE FINISH SURFACE CLEAR DIMENSIONS

6. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UNO.

7. NEW PARTITIONS WILL BE TYPE A30 WITH ACOUSTICAL INSULATION UNO.

8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES

9. MAINTAIN 1-HR FIRE RATING @ EXISTING SHAFT WALLS W/ NEW OPENINGS & @ EXISTING SHAFT OPENINGS TO BE CLOSED. SEE SHT A7.4.1 FOR PARTITION TYPE 'J' - 1-HR RATED SHAFTWALL

10. REFER TO SHEET A7.4.3 FOR FIRESTOPPING AND PENETRATION DETAILS

11. REFER TO SHEET AGO.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE @ DOORS, & CLEAR FLOOR SPACE @ PLUMBING FIXTURES

12. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DTLS PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WAL MOUNTED EQUIPMENT, GRAB BARS, & DOOR BUMPERS

13. PROVIDE GLASSMAT BACKER AT ALL TOILET ROOM TILE

14. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS

15. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS & SIZES

16. PER ELEVATOR CONTRACTOR, REMOVE SELECTIVE ELEVATOR EQUIP'T FOR REPLACEMENT INCLUDING:

> A. POWER UNITS, CONTROLLER, PUMP UNIT, DOOR OPERATOR, HATCH DOOR EQUIPMENT AND RELATED EQUIPMENT/FIXTURES. PROVIDE NEW SUMP PIT AND LADDER.

a. REMOVE EXISTING CAB FOR REPLACEMENT b. NEW CAB INTERIOR ONLY

C. ALTERNATE 3: REMOVE EXISTING ELEVATOR & REPLACE WITH A NEW HOLELESS HYDRAULIC

ELEVATOR, LOWER PIT AND RAISE ROOF. SEE

SHEET A7.5.2 FOR DETAILS. 17. CLEAN AND REPAIR EXIST'G CONSTRUCTION TO REMAIN.

18. CLEAN EXIST'G WINDOWS, FRAMES & REPAIR HARDWARE.

19. PROVIDE LINTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A7.5.2 FOR DETAILS.

20. PROVIDE UNDERLAVATORY GUARDS @ EXPOSED PLUMBING IN ALL PUBLIC WASHROOMS

21. REFER TO SHEET A7.7.1 FOR MATERIAL INDEX

22. REFER TO SHEET A7.7.2 FOR ROOM FINISH SCHEDULE

23. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE BEEN REMOVED AS REQUIRED FOR WORK.

24. PATCH ALL HOLES IN EXIST'G PARTITIONS & WALLS THAT ARE TO BE EXPOSED BY NEW WORK FROM REMOVED FURRING, BRACKETS, CABINETS, MECHANICAL OR ELECTRICAL EQUIPMENT.

25. EXCEPT IN STAIR WELLS AND MECH/ELEC RMS, ALL CMU WALLS WILL BE FURRED OUT WITH WALL TYPE "G" OR "H" UNLESS NOTED OTHERWISE. FURRING TYPE IS BASED ON ELECTRICAL OUTLETS.

26. EXISTING PLASTER COLUMNS TO REMAIN EXPOSED WILL BE FINISHED IN KIND FROM FLOOR TO CEILING WHERE REMOVAL OF CEILING AND OR HVAC PLENUM EXPOSES UNFINISHED PORTIONS OF COLUMN

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FIRST LEVEL FLOOR **PLAN** 

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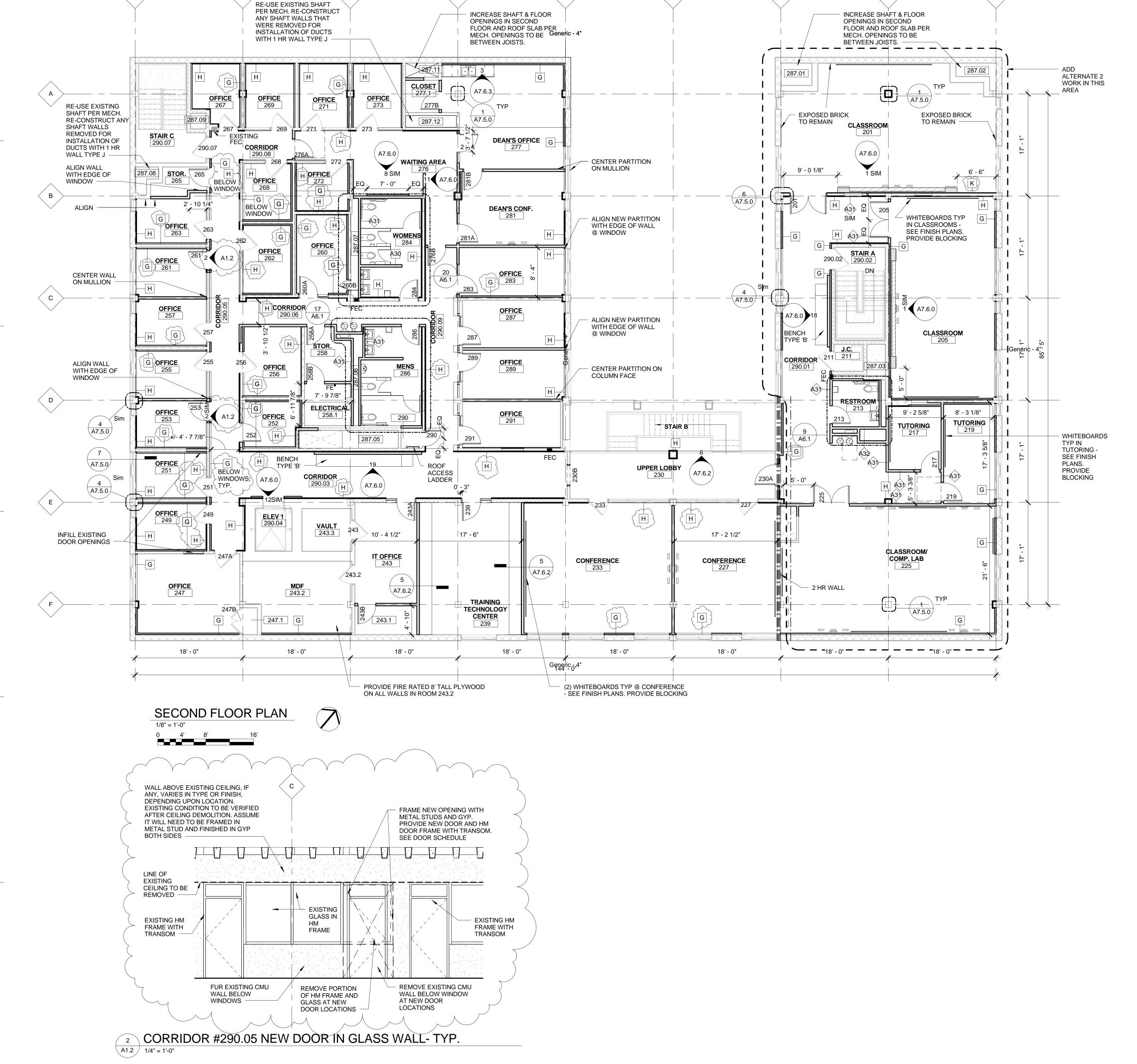
Drawn By: CB Approved By: RH

Scale: As indicated

Seal:

Drawing No:

Signature:



#### **FLOOR PLAN LEGEND**

---- LIMIT OF WORK

ELECTRICAL/TELECOM FLOOR BOX

FEC FIRE EXTINGUISHER CABINET, RE: AG0.1

FE WALL MTD FIRE EXTINGUISHER, RE: AG0.1

ES TACTILE EXIT SIGN

OL OCCUPANT LOAD SIGN

EV EVACUATION SIGN

EXISTING WALL

NEW PARTITION WALL

EXISTING MASONRY WALL

ADD ALTERNATE 1

ADD ALTERNATE 2

NEW DOOR

EXISTING DOOR

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ELEVATOR EQUIP'T FOR REPLACEMENT INCLUDING:

A. POWER UNITS, CONTROLLER, PUMP UNIT, DOOR OPERATOR, HATCH DOOR EQUIPMENT AND

RELATED EQUIPMENT/FIXTURES. PROVIDE NEW

B. CAB:

a. REMOVE EXISTING CAB FOR REPLACEMENT b. NEW CAB INTERIOR ONLY

C. ALTERNATE 3: REMOVE EXISTING ELEVATOR & REPLACE WITH A NEW HOLELESS HYDRAULIC ELEVATOR, LOWER PIT AND RAISE ROOF. SEE SHEET A7.5.2 FOR DETAILS.

17. CLEAN AND REPAIR EXIST'G CONSTRUCTION TO REMAIN.

18. CLEAN EXIST'G WINDOWS, FRAMES & REPAIR HARDWARE.

19. PROVIDE LINTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A7.5.2 FOR DETAILS.

20. PROVIDE UNDERLAVATORY GUARDS @ EXPOSED PLUMBING IN ALL PUBLIC WASHROOMS

21. REFER TO SHEET A7.7.1 FOR MATERIAL INDEX

22. REFER TO SHEET A7.7.2 FOR ROOM FINISH SCHEDULE23. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE

BEEN REMOVED AS REQUIRED FOR WORK.

24. PATCH ALL HOLES IN EXIST'G PARTITIONS & WALLS THAT ARE TO BE EXPOSED BY NEW WORK FROM REMOVED

FURRING, BRACKETS, CABINETS, MECHANICAL OR ELECTRICAL

PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE

25. EXCEPT IN STAIR WELLS AND MECH/ELEC RMS, ALL CMU WALLS WILL BE FURRED OUT WITH WALL TYPE "G" OR "H" UNLESS NOTED OTHERWISE. FURRING TYPE IS BASED ON ELECTRICAL OUTLETS.

EQUIPMENT.

26. EXISTING PLASTER COLUMNS TO REMAIN EXPOSED WILL BE FINISHED IN KIND FROM FLOOR TO CEILING WHERE REMOVAL OF CEILING AND OR HVAC PLENUM EXPOSES UNFINISHED PORTIONS OF COLUMN

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MEP Engineer

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# WAYNE STATE UNIVERSITY

## WAYNE STATE UNIVERSITY FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

ADDENDUM 1 20 JAN 2015
FOR BIDS 19 DEC 2014
98% CONSTRUCTION DOCUMENTS 26 NOV 2014
50% CONSTRUCTION DOCUMENTS 31 OCT 2014
DESIGN DEVELOPMENT 08 OCT 2014

Project

SCHEMATIC DESIGN

SCHOOL OF SOCIAL WORK 5447 Woodward, Detroit, MI

26 AUG 2014

# SECOND LEVEL FLOOR PLAN

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: CB Approved By: RH

Scale: As indicated

Scale. As indicate

Seal:

Drawing No:

Signature:

A1.2

NOTE:
OWNER IS RESPONSIBLE FOR HAZARDOUS MATERIAL
REMEDIATION TO BE COMPLETED PRIOR TO THE START OF
GENERAL DEMOLITION.

#### **DEMOLITION GENERAL NOTES**

 CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.

2. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS.

3. VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION, NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.

4. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS

5. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK

AND OTHER CONTRACTORS RETAINED BY THE OWNER.

6. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION & CONSTRUCTION.

7. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.

8. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.

9. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.

10. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO

11. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

12. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.

13. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)

14. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

#### **ROOF PLAN LEGEND**

RELOCATED WALK PADS/ REPLACE AS NEEDED
EXISTING WALK PADS TO REMAIN

NEW OR RELOCATED EQUIPMENT- SEE MECH

NEW CAP AT EXISTING ROOF CURB

DEMOLISHED WALK PAD

EXISTING EXHAUST FAN / VENT CURB OPENING

EXISTING ROOF HATCH

EXHAUST FAN

O VENT THRU ROOF

DISTURBED ROOF AREAS AT NEW CURBS OR POSTS (KEEP MINIMAL) TO BE FLASHED AND PATCHED

#### **ROOF PLAN NOTES**

ROOF. SEE SHEET A7.5.2 FOR DETAILS

1. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

2. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS
FOR ADDITIONAL INFORMATION INCLUDING DEMOLITION, RELOCATED EQUIPMENT, EQUIPMENT PAD LOCATIONS & SIZES

3. ALTERNATE 3: REMOVE EXISTING ELEVATOR & REPLACE W/ A
NEW HOLELESS HYDRAULIC ELEVATOR, LOWER PIT AND RAISE

4. AT NEW ROOF PENETRATIONS: REMOVE MIN AREA OF EXIST ROOFING SYSTEM DOWN TO STRUCTURE AS REQUIRED FOR NEW OPG. INFILL REMOVED AREA OF INSULATION W/ MATCHING TYPE & THICKNESS. REFER TO DETAIL 2/A1.3 FOR VENT PENETRATION & DETAIL 4/A1.3 FOR GUARD RAIL PENETRATION

5. INSTALL INSULATED WEATHERTIGHT CAP W/ MIN R19 THERMAL PERFORMANCE AT ALL ABANDONED CURBS. REFER TO DETAIL 6/A1.3

TPO ROOF CONST @ CAP TO EXIST CURB, TYP. SEE 5/A1.3 FOR SIM NOTES @ ROOF LAYERS & ROOF EDGE FLASHING

5/16" GALV STL BENT PLATE ANCHORED TO EXIST CURB W/ EXPANSION ANCHORS

EXIST MTL FLASH TO REMAIN. WD BLK & STL PLATE TO COVER TOP LEG EXIST BUILT UP ROOF EXIST CONC ROOF SLAB

03 ROOF

22" - 8"

EXIST CONC CURB 6" MTL STUDS @ EXIST OPENING

6 SECTION DETAIL @ CAP TO EXIST ROOF CURB

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SCHEMATIC DESIGN

SCHOOL OF SOCIAL WORK 5447 Woodward, Detroit, MI

# ROOF PLAN & DETAILS

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: CB Approved By: RH

Scale: As indicated

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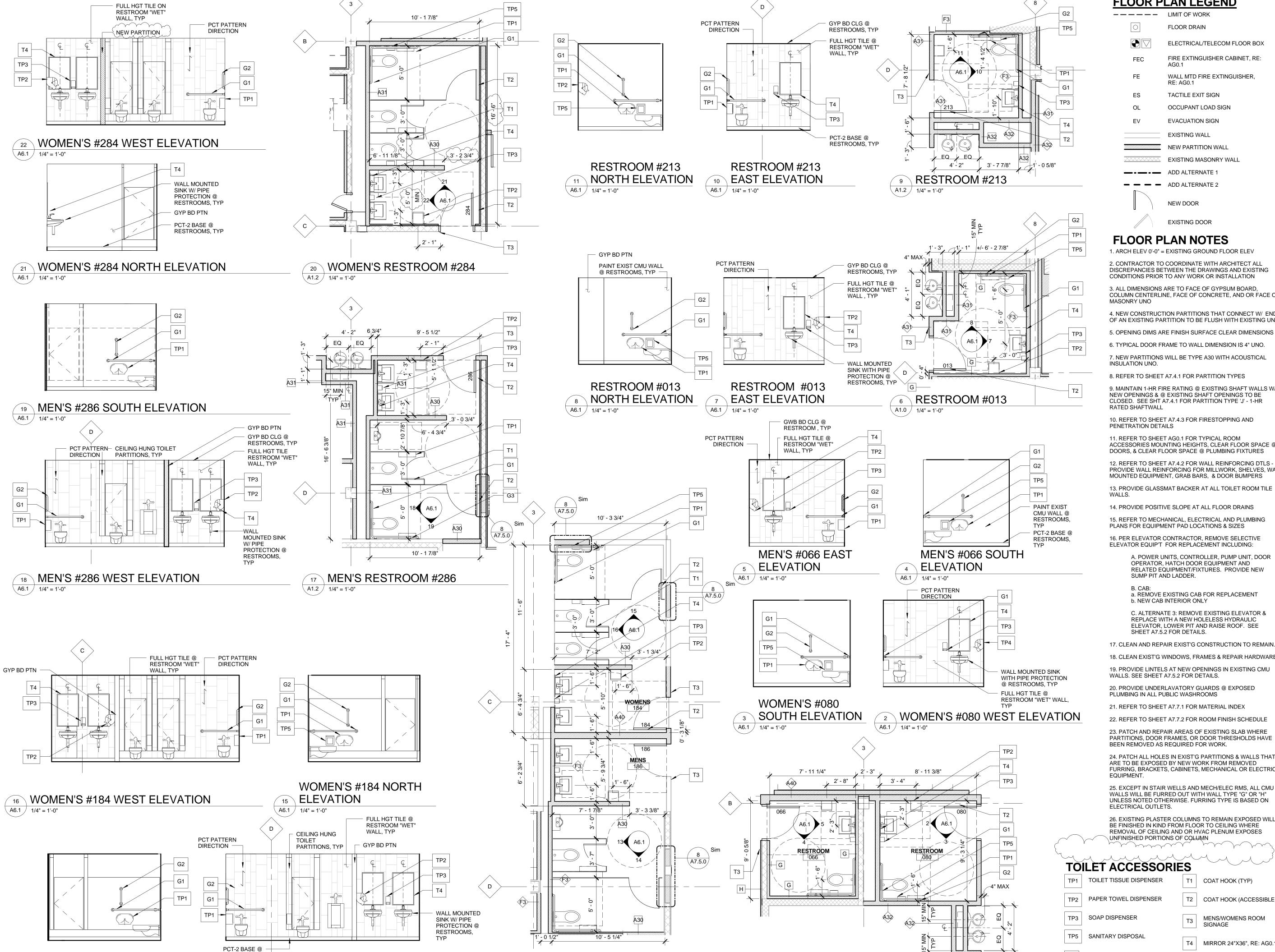
Seal:

Signature:

Drawing No:

A1.3





FLOOR PLAN LEGEND HamiltonAnderson

---- LIMIT OF WORK FLOOR DRAIN ELECTRICAL/TELECOM FLOOR BOX FIRE EXTINGUISHER CABINET, RE: WALL MTD FIRE EXTINGUISHER, RE: AG0.1 TACTILE EXIT SIGN OCCUPANT LOAD SIGN **EVACUATION SIGN EXISTING WALL NEW PARTITION WALL EXISTING MASONRY WALL ──** • **─** ADD ALTERNATE 1 ADD ALTERNATE 2 **NEW DOOR** 

**EXISTING DOOR FLOOR PLAN NOTES** 

CONDITIONS PRIOR TO ANY WORK OR INSTALLATION 3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF

MASONRY UNO 4. NEW CONSTRUCTION PARTITIONS THAT CONNECT W/ END OF AN EXISTING PARTITION TO BE FLUSH WITH EXISTING UNO.

5. OPENING DIMS ARE FINISH SURFACE CLEAR DIMENSIONS 6. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UNO.

7. NEW PARTITIONS WILL BE TYPE A30 WITH ACOUSTICAL INSULATION UNO.

8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES

9. MAINTAIN 1-HR FIRE RATING @ EXISTING SHAFT WALLS W/ NEW OPENINGS & @ EXISTING SHAFT OPENINGS TO BE CLOSED. SEE SHT A7.4.1 FOR PARTITION TYPE 'J' - 1-HR RATED SHAFTWALL

10. REFER TO SHEET A7.4.3 FOR FIRESTOPPING AND PENETRATION DETAILS

11. REFER TO SHEET AGO.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE @ DOORS, & CLEAR FLOOR SPACE @ PLUMBING FIXTURES

12. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DTLS -PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT, GRAB BARS, & DOOR BUMPERS

13. PROVIDE GLASSMAT BACKER AT ALL TOILET ROOM TILE

14. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS

15. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS & SIZES

16. PER ELEVATOR CONTRACTOR, REMOVE SELECTIVE ELEVATOR EQUIP'T FOR REPLACEMENT INCLUDING:

A. POWER UNITS, CONTROLLER, PUMP UNIT, DOOR OPERATOR, HATCH DOOR EQUIPMENT AND RELATED EQUIPMENT/FIXTURES. PROVIDE NEW SUMP PIT AND LADDER.

a. REMOVE EXISTING CAB FOR REPLACEMENT

b. NEW CAB INTERIOR ONLY C. ALTERNATE 3: REMOVE EXISTING ELEVATOR & REPLACE WITH A NEW HOLELESS HYDRAULIC

ELEVATOR, LOWER PIT AND RAISE ROOF. SEE

SHEET A7.5.2 FOR DETAILS. 17. CLEAN AND REPAIR EXIST'G CONSTRUCTION TO REMAIN. 18. CLEAN EXIST'G WINDOWS, FRAMES & REPAIR HARDWAR

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FURRING, BRACKETS, CABINETS, MECHANICAL OR ELECTRICAL EQUIPMENT. 25. EXCEPT IN STAIR WELLS AND MECH/ELEC RMS, ALL CMU

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26. EXISTING PLASTER COLUMNS TO REMAIN EXPOSED WILL BE FINISHED IN KIND FROM FLOOR TO CEILING WHERE REMOVAL OF CEILING AND OR HVAC PLENUM EXPOSES

T1 COAT HOOK (TYP)

SIGNAGE

T2 COAT HOOK (ACCESSIBLE)

MENS/WOMENS ROOM

T4 | MIRROR 24"X36", RE: AG0.1

## WAYNE STATE **JNIVERSITY**

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SCHOOL OF SOCIAL **WORK** 

08 OCT 2014

5447 Woodward, Detroit, MI

**ENLARGED TOILET ROOM PLANS & ELEVATIONS** 

Project Number: 2013088.01	WSU Project No: 063-23373
Drawn By: CC	Approved By: RH

Scale: As indicated

**DESIGN DEVELOPMENT** 

Signature:

Drawing No:

MEN'S #186 SOUTH ELEVATION MEN'S #186 WEST ELEVATION

A6.1 1/4" = 1'-0"

RESTROOMS, TYP

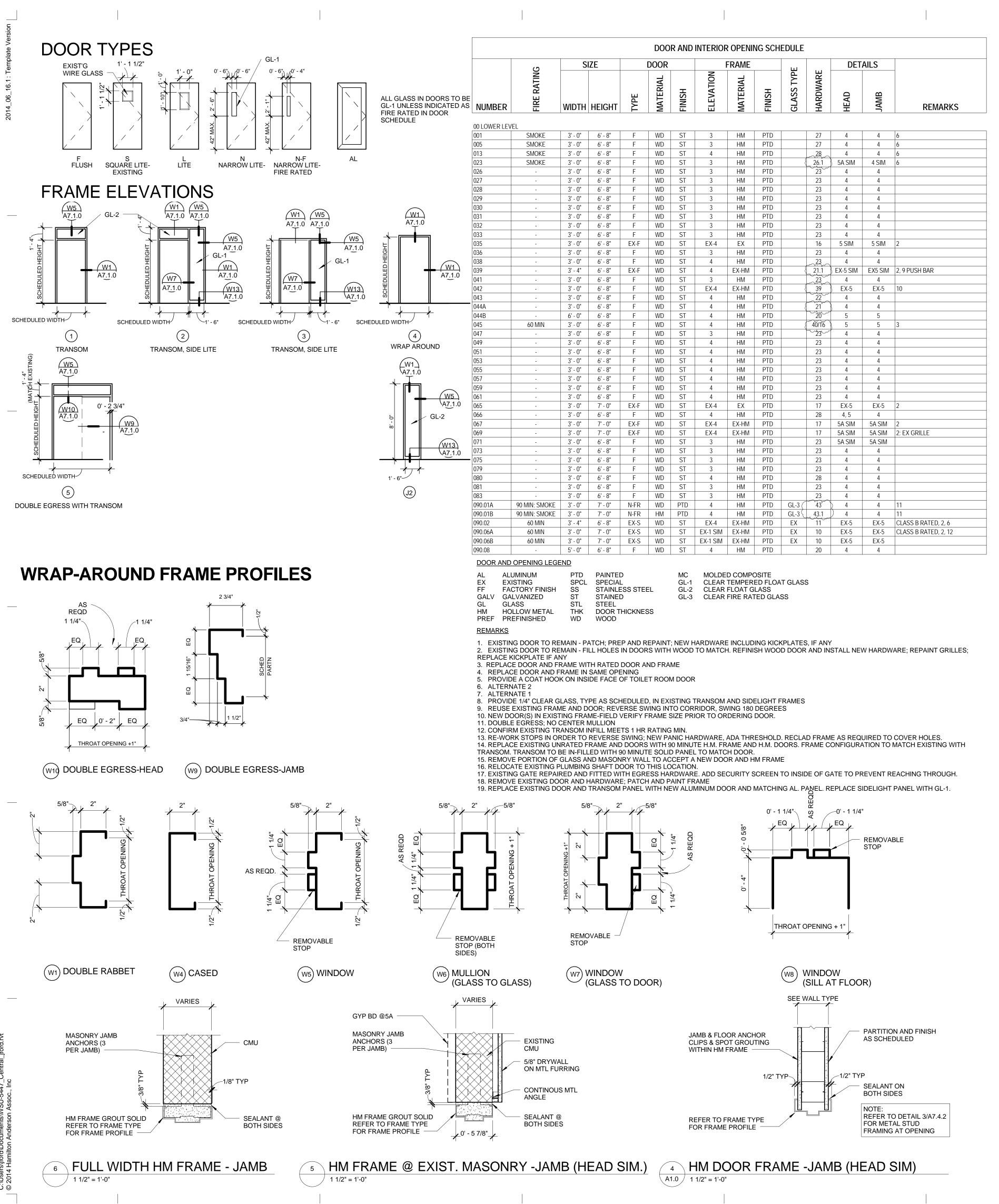
WOMEN'S RESTROOM #184 & MEN'S RESTROOM #186 1/4" = 1'-0"

MEN'S RESTROOM #066 & WOMEN'S RESTROOM #080 A1.0 / 1/4" = 1'-0"

RE: AG0.1 G2 GRAB BAR 18", RE: AG0.1

G1

TWO-WALL GRAB BAR 42" & 36",



	9	S	IZE		DOOR	I		FRAME	I	·ш	ш	DET	AILS	
NUMBER	FIRE RATING	WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	ELEVATION	MATERIAL	FINISH	GLASS TYPE	HARDWARE	HEAD	JAMB	REMARKS
1 FIRST FLOO	)R													
01A	SMOKE	6' - 0"	6' - 8"	N	WD	ST	1	HM	PTD	GL-1	13	4	4	7
01B 15A	- SMOKE	3' - 0" 3' - 0"	6' - 8" 6' - 8"	F N	AL WD	AL ST	EX-2 SIM	EX-AL HM	EX-AL PTD	GL-1	27	6 EX 4	EX 4	7, 19
25A	-	3' - 0"	6' - 8"	F	AL	AL	EX-2 SIM	EX-AL	EX-AL	8	(Lui)	EX	EX	7, 19
30A 30B	90 MIN; SMOKE	3' - 0" 6' - 0"	6' - 8" 6' - 8"	EX-AL N-FR	AL WD	AL PTD	EX-1 SIM 1 SIM	EX-AL HM	EX-AL PTD	GL-3	34	EX 4, 5	EX 4 SIM	13
31	-	3' - 0"	6' - 8"	F	WD	ST	4	HM	PTD		23	4	4	
39 43	-	3' - 0" 3' - 0"	6' - 8" 6' - 8"	F F	WD WD	ST ST	2	HM HM	PTD PTD		23	4	4	
l 45 l 47	-	3' - 0" 3' - 0"	6' - 8" 6' - 8"	F F	WD WD	ST ST	2 4	HM HM	PTD PTD		23 21	4	4 4	PUSH BAR
49	-	3' - 0"	6' - 8"	F	WD	ST	1	HM	PTD		23	4	4	FUSITIBAN
51 54	-	3' - 4" 3' - 0"	6' - 8" 7' - 0"	F F	WD WD	ST ST	EX-1	EX-HM HM	PTD PTD	,	17	EX-5A	EX-5A 4	8, 10
58	-	3' - 0"	7' - 0"	F	WD	ST	EX-4	EX-HM	PTD		17	EX-4	EX-4	10
59 60	-	3' - 0" 3' - 0"	6' - 8" 7' - 0"	F F	WD WD	ST ST	1 EX-4	HM EX-HM	PTD PTD		31 17	5A EX-4	5A EX-4	10
61	-	3' - 0"	6' - 8"	F	WD	ST	1	HM	PTD		31	5A	5A	
62 64	-	3' - 0" 3' - 0"	7' - 0" 7' - 0"	F F	WD WD	ST ST	EX-4	EX-HM EX-HM	PTD PTD		17 17	EX-4	EX-4 EX-4	10
65	-	3' - 4" 3' - 0"	6' - 8"	F	WD	ST	EX-1	EX-HM	PTD		17	EX-5A	EX-5A	8, 10
67 69	-	3' - 4"	6' - 8" 6' - 8"	F	WD WD	ST ST	4 EX-1	HM EX-HM	PTD PTD		31	5A EX-5A	5A EX-5A	8, 10
71 73	-	3' - 4" 3' - 4"	6' - 8" 6' - 8"	F F	WD WD	ST ST	EX-1 EX-1	EX-HM EX-HM	PTD PTD		17 17	EX-5A EX-5A	EX-5A EX-5A	8, 10
77A	-	3' - 4"	6' - 8"	N N	WD	ST	EX-1	EX-HIVI	PTD	GL-1	35	EX-5A EX-5A	EX-5A EX-5A	8, 10 8, 10
77B 79A	-	3' - 0" 3' - 0"	6' - 8" 6' - 8"	F	AL WD	AL ST	EX-2 SIM	EX-AL HM	EX-AL PTD		7 7	EX 5A	EX 5A	7, 19
79B	-	3' - 0"	6' - 8"	F	AL	AL	EX-2 SIM	EX-AL	EX-AL		[ 18.	EX	EX	7, 19
83A 83B	-	3' - 0" 3' - 0"	6' - 8" 6' - 8"	F F	WD AL	ST AL	1 EX-2 SIM	HM EX-AL	PTD EX-AL	,	23	5A EX	5A EX	7, 19
184	-	3' - 0"	6' - 8"	F	WD	ST	4	HM	PTD		30	4	4	, ,
86 87	-	3' - 0"	6' - 8" 6' - 8"	F F	WD WD	ST ST	2	HM HM	PTD PTD		30	5	4 5	
87.01	SMOKE	3' - 0"	6' - 8"	EX-F	WD	ST	EX-1	HM	PTD		16	EX-5	EX-5	2, 7
89A 89B	-	3' - 0" 3' - 0"	6' - 8" 6' - 8"	F F	WD AL	ST AL	2 EX-2 SIM	HM EX-AL	PTD EX-AL		23	4, 5 EX	4 EX	7, 19
90.01A	60 MIN, SMOKE	3' - 4"	6' - 8"	N-FR	WD	ST	4	HM	PTD	GL-3	14	4	4	7
90.01B 90.03	-	3' - 4" 3' - 0"	6' - 8" 6' - 8"	F F	AL AL	AL AL	1 SIM EX-2 SIM	AL EX-AL	AL EX-AL		1 3	- \ EX	- EX	7, 15 MATCH EX FRAME DETAILS 7, 19
90.04A	-	16' - 0"	6' - 8"	EX	AL	EX	EX	HM	EX-AL	EX	32	EX	EX	CLEAN & REPAIR PER SPEC
90.04B 90.08A	-	16' - 0" 3' - 4"	6' - 8" 6' - 8"	EX N	AL HM	EX PTD	EX EX-1	HM EX-HM	EX, AL PTD	EX EX	32	EX-4	EX EX-4	CLEAN & REPAIR PER SPEC 10
90.08B 90.10	60 MIN	3' - 4" 3' - 0"	6' - 8" 7' - 0"	N-FR F	WD	ST	4 4	HM	PTD PTD	GL-3	14	4	4 F CIM	7 EVIEDIOD COUDT FODESS
90.10	-	3' - 4"	6' - 8"	EX	HM EX	PTD PTD	EX	HM EX	PTD	}	38 - 37 T	5 SIM -	5 SIM -	7, EXTERIOR COURT EGRESS 7, 17, EX. MTL GATE RETROFIT TO
190.12	_	3' - 0"	7' - 0"	F	HM	PTD	4	HM	PTD	}	38 1	6 SIM	6	ACCEPT HDWR  7, EXTERIOR COURT EGRESS
02 SECOND FL				•						1				
201	SMOKE	6' - 0"	6' - 8"	N	WD	ST	EX-1 SIM	EX-HM	PTD	GL-1	GL-1 9 5A SIM 5A 6,10,TRANSOM TO BE WITH FURRING AND G GL-1 13 4 4 6 16 EX-5A EX-5A 2, 6 29 4 4 5, 6 GL-1 24 4 4 6		6,10,TRANSOM TO BE COVERED WITH FURRING AND GYP	
205 211	SMOKE SMOKE	6' - 0" 3' - 0"	6' - 8" 6' - 8"	N EX-F	WD WD	ST ST	4 EX-1 SIM	HM HM	PTD PTD	37 - 7, 17, EX. MTL GATE REACCEPT HDWR  38 6 SIM 6 7, EXTERIOR COURT EG  GL-1 9 5A SIM 5A 6,10,TRANSOM TO BE COURT FURRING AND GN  GL-1 13 4 4 6  16 EX-5A EX-5A 2, 6 29 4 4 5, 6		-		
213	SMOKE	3' - 0"	6' - 8"	F	WD	ST	4	HM	PTD	ACCEPT HDWR   38   6 SIM   6   7, EXTERIOR COURT EN				
217 219	SMOKE SMOKE	3' - 0" 3' - 0"	6' - 8" 6' - 8"	N N	WD WD	ST ST	1	HM HM	PTD PTD	GL-1	24	4	4	6
225	SMOKE	6' - 0"	6' - 8"	N	WD	ST	1	HM	PTD	GL-1	13	4	4	6
227 230A	90 MIN; SMOKE	3' - 0" 3' - 4"	6' - 8" 6' - 8"	EX-F N-FR	WD WD	ST PTD	EX-1 SIM 1 SIM	EX-HM HM	PTD PTD	GL-3	18 13	EX 5A SIM	EX 5A SIM	2; EX GRILLE
230B	70 MINV, SMOKE	0' - 0"	0' - 0"	-	-	110	EX-1	EX-HM	PTD	8	719	EX	EX	8, 18, EX FRAME TO REMAIN; NO
233		3' - 0"	6' - 8"	EX-F	WD	ST	EX-1	EX-HM	PTD		18	EX	EX	DR 2; EX GRILLE
239		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	8	36	5A	5A	REUSE SALVAGED DOOR
243 243.2		3' - 0" 3' - 0"	6' - 8" 6' - 8"	EX EX-F	WD	EX ST	EX-1 SIM	EX-HM	EX PTD		15	- 5A	5A	EXISTING VAULT-NO WORK  2; EX GRILLE
243A 243B		3' - 0" 3' - 0"	6' - 8" 7' - 0"	F	WD WD	ST ST	2 4	HM HM	PTD PTD		23 23	5A 4	5A 4	REUSE SALVAGED DOOR REUSE SALVAGED DOOR
243B 247A		3' - 4"	6' - 8"	EX-F	WD	ST	EX-1	HM	PTD		17	EX-5A	EX-5A	2; EX GRILLE
247B 249		4' - 0" 3' - 0"	7' - 0" 6' - 8"	F EX-F	WD WD	ST ST	EX-1 EX-1 SIM	HM HM	PTD PTD	}	5 17	EX-5A	EX-5A EX-5A	2, 8; EX GRILLE
251		3' - 0"	6' - 8"	EX-F	WD	ST	EX-1 SIM	HM	PTD		17	EX-5A	EX-5A	2; 8, EX GRILLE
252 253		3' - 0" 3' - 0"	6' - 8" 6' - 8"	F F	WD WD	ST ST	EX-1 SIM	EX-HM HM	PTD PTD		31	EX -	EX -	10, REUSE SALVAGED DOOR 15, REUSE SALVAGED DOOR
255		3' - 0"	6' - 8"	EX-F	WD	ST	EX	HM	PTD		17	EX	EX	2; EX GRILLE
256 257		3' - 4" 3' - 0"	6' - 8" 6' - 8"	EX-F EX-F	WD WD	ST ST	EX EX	HM HM	PTD PTD		17	EX EX	EX EX	2 2
58A		3' - 0"	6' - 8"	F	WD	PTD	4	НМ	PTD	(	22	4	4	REUSE SALVAGED DOOR
258B 260A		3' - 0"	6' - 8" 6' - 8"	F F	WD WD	PTD ST	2	HM HM	PTD PTD	<u> </u>	22 23	4 5A	4 5A	REUSE SALVAGED DOOR REUSE SALVAGED DOOR
160B		1' - 6"	4' - 0"	EX	WD	ST	EX	HM	PTD		33	5A SIM	5A SIM	UTILITY DOOR
261 262		3' - 0" 3' - 4"	6' - 8" 6' - 8"	F EX-F	WD WD	ST ST	1 SIM EX	HM HM	PTD PTD		31 17	-	-	15, REUSE SALVAGED DOOR 2
163		3' - 0" 3' - 0"	7' - 0" 6' - 8"	EX-F	WD WD	ST ST	EX 4	HM HM	PTD PTD		17 22	- 5A	- 4	2 REUSE SALVAGED DOOR
265 267		3' - 0"	6' - 8"	EX-F	WD	ST	EX-1 SIM	НМ	PTD		17	- <u>-</u>	-	2
168 169		3' - 4" 3' - 4"	6' - 8" 6' - 8"	EX-F EX-F	WD WD	ST ST	EX EX	HM HM	PTD PTD		17 17	-	-	2 2
271		3' - 4"	6' - 8"	EX-F	WD	ST	EX	HM	PTD		17	<u>-</u>	-	2
172 173		3' - 4" 3' - 4"	6' - 8" 6' - 8"	EX-F EX-F	WD WD	ST ST	EX EX	HM HM	PTD PTD		17 17	-	-	2 2
?76A		3' - 0"	6' - 8"	N	WD	ST	1	HM	PTD	GL-1	25	4	4	<u></u>
276B 277A		3' - 0" 3' - 0"	6' - 8" 6' - 8"	N F	WD WD	ST ST	1	HM HM	PTD PTD	GL-1	23	4	4	REUSE SALVAGED DOOR
.77B		3' - 0"	6' - 8"	F	WD	ST	4	HM	PTD		42	4	4	REUSE SALVAGED DOOR
281A 281B		3' - 0" 3' - 0"	6' - 8" 6' - 8"	F F	WD WD	ST ST	2 4	HM HM	PTD PTD		23 23	4	4	REUSE SALVAGED DOOR REUSE SALVAGED DOOR
183		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD		23	4	4	REUSE SALVAGED DOOR
284 286		3' - 0" 3' - 0"	6' - 8" 6' - 8"	F F	WD WD	ST ST	4	HM HM	PTD PTD		30 30	5A SIM 4	5A SIM 4	REUSE SALVAGED DOOR REUSE SALVAGED DOOR
187		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD		23	5A	5A	REUSE SALVAGED DOOR
289		3' - 0" 2' - 8"	6' - 8" 6' - 8"	F F	WD WD	ST ST	2 4	HM HM	PTD PTD		23	5A 5A	5A 5A	REUSE SALVAGED DOOR
	1			•	WD	ST	EX-1	HM	PTD	EX	11	EX-5A	EX-5A	2, 6 EX. B LABEL
290 290.02 290.07	60 MIN 60 MIN	3' - 4" 3' - 4"	6' - 8" 6' - 8"	EX-S EX-S	WD	ST	EX-1	HM	PTD	EX	11	EX-5A	EX-5A	2, EX B LABEL

DOOR AND INTERIOR OPENING SCHEDULE

### HamiltonAnderson

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MEP Engineer

Peter Basso Associates 5145 Livernois Troy, MI 48098 248.879.5666

Structural Engineer

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## WAYNE STATE IJNIVERSITY

**WAYNE STATE UNIVERSITY** FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

ADDENDUM 1 20 JAN 2015 FOR BIDS 19 DEC 2014 98% CONSTRUCTION DOCUMENTS 26 NOV 2014

SCHOOL OF SOCIAL WORK 5447 Woodward, Detroit, MI

DOOR SCHEDULE

50% CONSTRUCTION DOCUMENTS

DESIGN DEVELOPMENT

Project Number: 2013088.01

WSU Project No: 063-233732

31 OCT 2014

08 OCT 2014

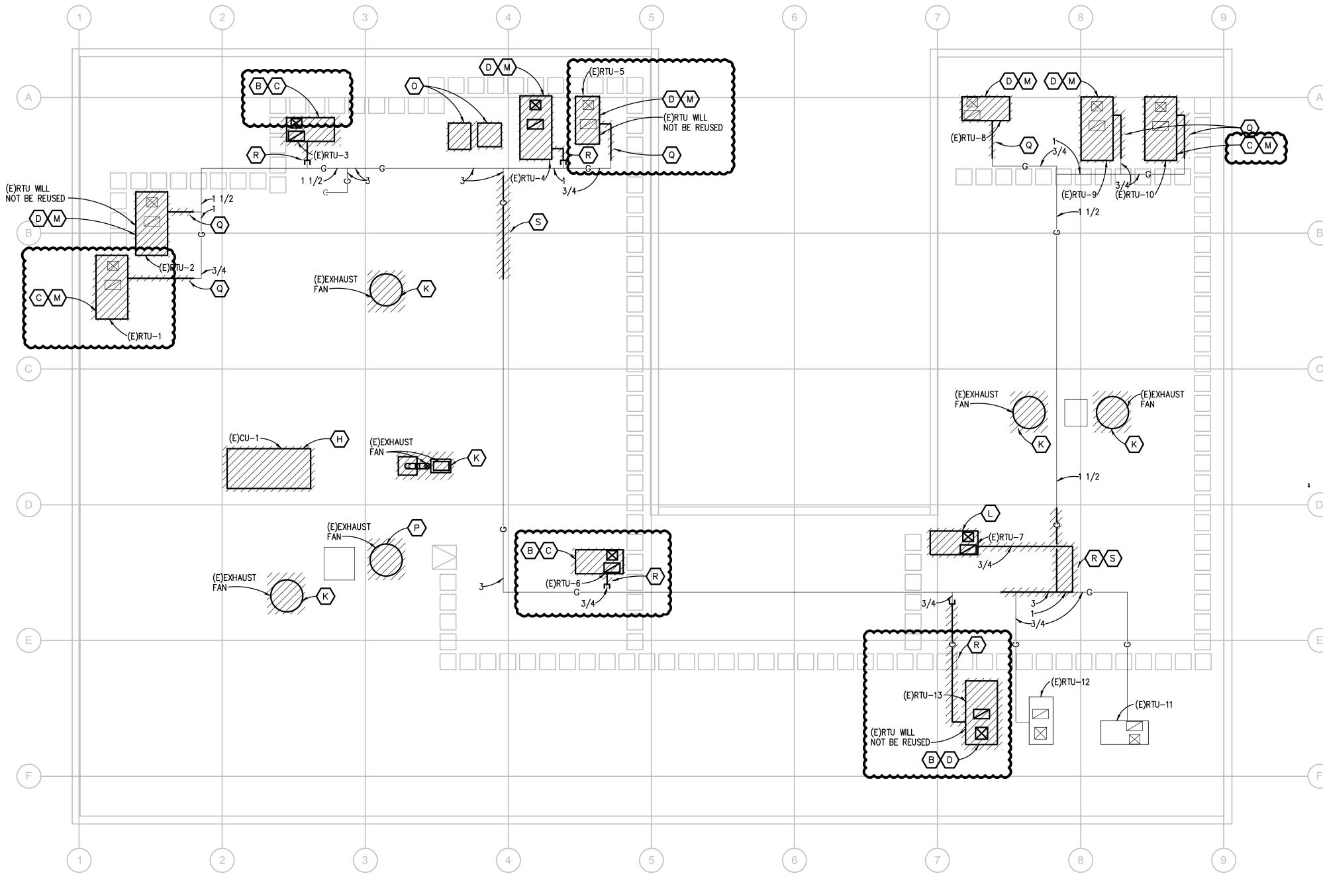
Drawn By: CB

Approved By: RH

Scale: As indicated

Seal:

Signature:



ROOF MECHANICAL DEMOLITION PLAN
SCALE: 1/8" - 1' - 0"

#### MECHANICAL GENERAL DEMOLITION NOTES:

- 1. THE SCOPE OF MECHANICAL WORK FOR THIS PROJECT IS THE REPLACEMENT OF THE MECHANICAL AND PLUMBING SYSTEMS WITHIN THE BUILDING. ALL MECHANICAL AND PLUMBING SYSTEMS ARE TO BE REMOVED WITH THE EXCEPTION OF SPECIFIC ITEMS NOTED TO REMAIN OR TO BE RELOCATED.
- 2. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
- 3. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. THEY ARE BASED ON LIMITED EXISTING DRAWINGS AND ON LIMITED SITE SURVEY. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. REFER TO ORIGINAL BUILDING DRAWINGS INCLUDED IN THIS BID SET. VISIT THE SITE PRIOR TO BIDS TO OBSERVE THE EXISTING CONDITIONS.
- 4. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
- ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.

#### **#** DEMOLITION KEY NOTES:

- A. SCOPE OF WORK INCLUDES REPLACEMENT OF HVAC AND PLUMBING SYSTEMS.
  REMOVE ALL EXISTING HVAC AND PLUMBING EQUIPMENT, DUCTWORK, PIPING,
  HANGERS, CONTROLS, AND ASSOCIATED COMPONENTS COMPLETE UNLESS NOTED
  OTHERWISE ON THESE DRAWINGS. NOTE ALL DUCTWORK, PIPING, AND EQUIPMENT IS
  NOT INDICATED ON THESE DRAWINGS. EXISTING DRAWINGS ARE ISSUED FOR
  REFERENCE. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS TO
- B. REMOVE RTU AND ASSOCIATED DUCTWORK, PATCH CONCRETE ROOF DUCT PENETRATIONS, CAP EXISTING ROOF CURB WITH WEATHER TIGHT INSULATED (MINIMUM R-19) ROOF CURB CAP. PROVIDE ROOF REPAIRS.
- (C.) RELOCATE EXISTING RTU. REFER TO DRAWING M4.3 FOR NEW LOCATION.
- (D.) EXISTING RTU TO BE REMOVED AND TURNED OVER TO THE OWNER.
- REMOVE EXISTING WATER METER ASSEMBLY. RELOCATE EXISTING WATER METER. REFER TO NEW WORK PLANS FOR DETAILS OF RECONFIGURED WATER SERVICE ENTRANCE AND EXTENSION OF THIS SYSTEM.
- F. REMOVE EXISTING GAS METER ASSEMBLY. REMOVE ABANDONED PORTION OF PIPING ROUTED DOWN CORRIDOR. EXISTING GAS PIPING SERVING ROOFTOPS TO REMAIN. REFER TO NEW WORK PLANS FOR EXTENSION/MODIFICATION OF THIS SYSTEM.
- G. REMOVE EXISTING ELECTRIC WATER HEATER AND DELIVER TO OWNER.
- H. REMOVE EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERATION PIPING AND ROOF SUPPORTS.
- REMOVE EXISTING HOSE BIBB AND ASSOCIATED PIPIGN COMPLETE. PATCH EXTERIOR WALL TO MATCH EXISTING.
- J. REMOVE EXISTING IRRIGATION VACUUM BREAKER AND ASSOCIATED PIPING.
- REMOVE EXISTING ROOF MOUNTED EXHAUST FAN INCLUDING ELECTRIC WIRING AND CONTROL COMPLETE, PROVIDE WEATHER TIGHT INSULATED (MINIMUM R-19) ROOF
- L. ROTATE UNIT AS REQUIRED TO PROVIDE NEW SUPPLY AND RETURN LOCATIONS AS SHOWN ON M4.2. PATCH CONCRETE ROOF DUCT PENETRATIONS, PREPARE ROOF CURB AS REQUIRED FOR NEW UNIT, AND PROVIDE ROOFING REPAIRS.
- (M.) REMOVE UNIT AND PREPARE ROOF CURB AND DUCTWORK FOR NEW/RELOCATED UNIT.
- REMOVE EXISTING CABINET UNIT HEATER, ASSOCIATED CONTROLS, WIRING, PIPING, AND ALL OTHER COMPONENTS. PREPARE OPENING FOR NEW UNIT.
- O. REMOVE EXISTING ROOF SHAFT ACCESS HATCH, ENLARGE OPENING AND PREPARE OPENING FOR NEW CONSTRUCTION. REFER TO M4.3 FOR OPENING SIZE
- REQUIREMENTS. PROVIDE ROOF REPAIRS.

  P. REMOVE EXISTING ROOF MOUNTED EXHAUST FAN INCLUDING ELECTRIC WIRING AND CONTROLS COMPLETE. ENLARGE AND PREPARE ROOF CURB AND OPENING AS
- CONTROLS COMPLETE. ENLARGE AND PREPARE ROOF CURB AND OPENING AS REQUIRED FOR NEW CONSTRUCTION. PROVIDE ROOF REPAIRS.
- Q. REMOVE GAS PIPING FROM ROOF TOP UNIT AS INDICATED AND PREPARE FOR NEW CONNECTION.
- R. REMOVE GAS PIPING FROM ROOF TOP UNIT AS INDICATED AND CAP AS INDICATED.
- S. REMOVE SECTION OF GAS PIPING AND PREPARE EXISTING PIPING TO REMAIN FOR NEW
- T. REMOVE EXISTING MULTI-ZONE AIR HANDLING UNIT, AND ASSOCIATED DUCTWORK, PIPING, CONTROLS, ETC.
- U.) REMOVE EXISTING DUCTWORK AND ASSOCIATED ELECTRIC REHEAT COILS COMPLETE
- V. REMOVE EXISTING THERMOSTATS (TYP).
- W. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED PIPING COMPLETE (TYP).
- X. REMOVE EXISTING ROOFTOP AIR HANDLING UNIT DUCTWORK COMPLETE (TYP).
- SAWCUT EXISTING FLOOR AS REQUIRED AND REMOVE SECTION OF UNDERGROUND PIPING. PREPARE FOR NEW CONNECTION OR CAP AS INDICATED. PATCH FLOOR TO MATCH EXISTING GRADE AND FINISH.
- Z. REMOVE RAIN CONDUCTOR PIPING AS INDICATED. PREPARE EXISTING TO REMAIN FOR NEW CONNECTION.

## HamiltonAnderson architecture landscape architecture urban design

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| Structural Engineer | Desai/Nasr Cor

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# WAYNE STATE UNIVERSITY

Client

## WAYNE STATE UNIVERSITY FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

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ADDENDUM 1	20 JAN 2015
BIDS	19 DEC 2014
98% CONSTRUCTION DOCUMENTS	26 NOV 2014
50% CONSTRUCTION DOCUMENTS	31 OCT 2014
DESIGN DEVELOPMENT	08 OCT 2014

26 AUG 2014

SCHOOL OF SOCIAL WORK

5447 Woodward, Detroit, MI Drawing Title

## ROOF MECHANICAL DEMOLITION PLAN

| Project Number: 2013088.01 | WSU Project No: 063-233732 |
| Drawn By: JTC | Approved By: BMR

Scale: As indicated

SCHEMATIC DESIGN

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Signature:

Drawing No:

MD1.3



#### SHEET METAL GENERAL NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL
- 5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

#### **#** CONSTRUCTION KEY NOTES:

- PROVIDE CURB ADAPTER AS REQUIRED FOR PROPER CONNECTION TO EXISTING ROOF CURB AND DUCTWORK PENETRATIONS.
- 2. RELOCATED RTU
- 3. PROVIDE NEW EQUIPMENT SUPPORT CURBS. REPAIR ROOF AS REQUIRED.
- 4. LAG DUCTWORK CONNECTING TO RTU PRIOR TO THE NEW SOUND ATTENUATOR OR FOR 10'-0 OF DUCT (MEASURED AT THE CENTER LINE)
- 5. PROVIDE NEW ROOF CURB. CURB HEIGHT AS REQUIRED TO ACCOMMODATE DUCT TRANSITIONS.
- (6.) EXTEND GAS PIPING AS REQUIRED AND CONNECT TO ROOF TOP UNIT
- 5. SEAL SEAMS WATER TIGHT ON OUTDOOR AIR INTAKE DUCTWORK FROM HERE TO MECHANICAL ROOM.
- 8. PROVIDE NEW TRANSFER DUCT, SEE PLANS FOR DUCT SIZE
- 9. 3 WATER HEATER INTAKE AND EXHAUST
- PROVIDED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR
- 6 BOILER INTAKE(S) AND EXHAUST(S)

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# WAYNE STATE UNIVERSITY

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## WAYNE STATE UNIVERSITY FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

ADDENDUM 1

BIDS

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19 DEC 2014

26 NOV 2014

31 OCT 2014

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26 AUG 2014

SCHOOL OF SOCIAL WORK

**DESIGN DEVELOPMENT** 

SCHEMATIC DESIGN

5447 Woodward, Detroit, MI

LOWER LEVEL SHEET METAL PLAN

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: JTC App

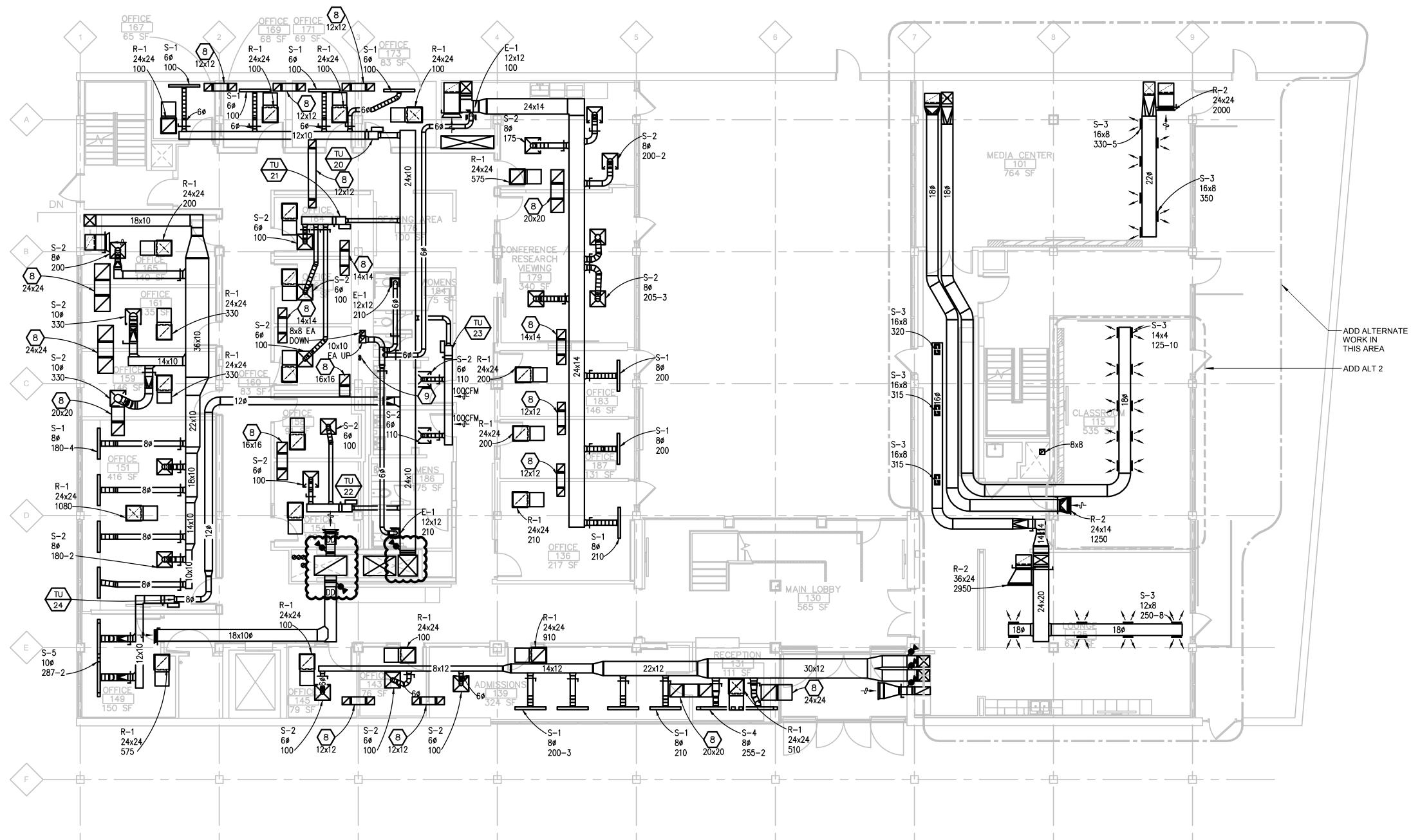
Scale: As indicated

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Drawing No:

M4.0

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



FIRST FLOOR SHEET METAL PLAN
SCALE: 1/8' - 1' - 0'

#### SHEET METAL GENERAL NOTES:

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  - 5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

#### **EXAMPLE 2** CONSTRUCTION KEY NOTES:

- PROVIDE CURB ADAPTER AS REQUIRED FOR PROPER CONNECTION TO EXISTING ROOF CURB AND DUCTWORK PENETRATIONS.
- (2.) RELOCATED RTU
- (3.) PROVIDE NEW EQUIPMENT SUPPORT CURBS. REPAIR ROOF AS REQUIRED.
- 4. LAG DUCTWORK CONNECTING TO RTU PRIOR TO THE NEW SOUND ATTENUATOR OR FOR 10'-0 OF DUCT (MEASURED AT THE CENTER LINE)
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- 6. EXTEND GAS PIPING AS REQUIRED AND CONNECT TO ROOF TOP UNIT
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- 9. 3 WATER HEATER INTAKE AND EXHAUST
- PROVIDED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR
- 6 BOILER INTAKE(S) AND EXHAUST(S)

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MEP Engineer

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Desai/Nasr Consulting Engineer 6765 Daly Rd West Bloomfield, MI 48322 248.932.2010

#### **WAYNE STATE UNIVERSITY** FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

ADDENDUM 1 98% CONSTRUCTION DOCUMENTS 26 NOV 2014 50% CONSTRUCTION DOCUMENTS 31 OCT 2014

08 OCT 2014

26 AUG 2014

SCHOOL OF SOCIAL WORK

5447 Woodward, Detroit, MI

FIRST FLOOR SHEET **METAL PLAN** 

Project Number: 2013088.01 WSU Project No: 063-233732

**DESIGN DEVELOPMENT** 

SCHEMATIC DESIGN

Scale: As indicated

Drawing No: M4.1

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SECOND FLOOR SHEET METAL PLAN
SCALE: 1/8" - 1' - 0"

#### SHEET METAL GENERAL NOTES:

- 1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
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- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 5. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

#### **\*** CONSTRUCTION KEY NOTES:

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# WAYNE STATE UNIVERSITY

Client

## WAYNE STATE UNIVERSITY FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

ADDENDUM 1

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SCHOOL OF SOCIAL WORK

**DESIGN DEVELOPMENT** 

SCHEMATIC DESIGN

5447 Woodward, Detroit, MI

SECOND FLOOR SHEET METAL PLAN

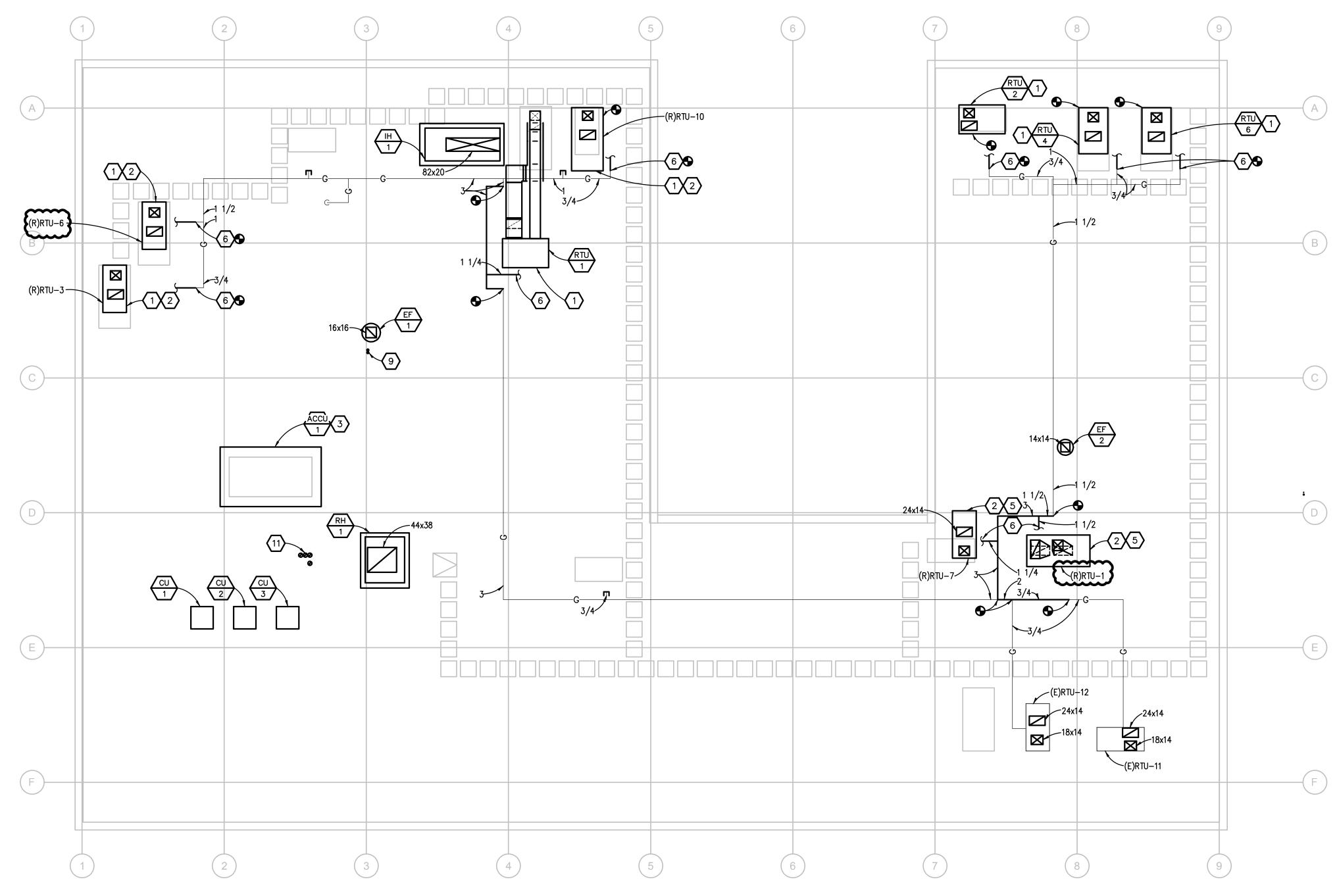
Project Number: 2013088.01 WSU Project No: 063-233732

Orawn By: JTC Approved By: BMF

Scale: As indicated

Drawing No:

M4.2



ROOF MECHANICAL PLAN
SCALE: 1/8" - 1' - 0"

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# WAYNE STATE UNIVERSITY

Client

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5454 Cass Avenue Detroit, Michigan

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## SCHOOL OF SOCIAL WORK

DESIGN DEVELOPMENT SCHEMATIC DESIGN

5447 Woodward, Detroit, MI

ROOF MECHANICAL PLAN

| Project Number: 2013088.01 | WSU Project No: 063-233732 | Drawn By: JTC | Approved By: BMR

Seal:

Scale: As indicated

Seal.

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Drawing No: M4.3

							CONE	DENSINO	BOILE	RS	SCH	EDU	LE							
UNIT IDENTIFICATION	TURNDOWN		FUEL	AGA INPUT		PRESSURE RATING PSIG		DIMENSIONS			W	TER		MODULATION/ CONTROL TYPE		ELE	ECTRICAL		MODEL NUMBER	REMARKS
		TYPE	INLET PRESSURE AT GAS TRAIN	MBH	MBH		WIDTH	LENGTH	HEIGHT	E.W.T. F	L.W.T. °F	FLOW GPM	W.P.D. FT		VOLTS	PHASE	FLA	OPTIONS/ ACCESSORIES		
B-1	1: 24.5	NAT GAS	3.5"-10.5" IN WC	1123.5	993–1067	160	51.2	30.3	45.3	100	140	99	8.3	AUTO	120	1	15	В	MLX EXT 1123	
B-2	1: 24.5	NAT GAS	3.5"-10.5" IN WC	1123.5	993–1067	160	51.2	30.3	45.3	100	140	99	8.3	AUTO	120	1	15	В	MLX EXT 1123	

NOTE:

1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE AERCO.
3. REFER TO ELECTRICAL STANDARD SCHEDULES.
4. 120 VOLT 1 PHASE 20 AMP CIRCUIT FOR BOILER CONTROLS 5. PROVIDE BOILER WITH 75 PSIG PRESSURE RELIEF VALVE

6. PROVIDE ONE SPARE IGNITER FOR EACH BOILER

															FAN	SCHE	EDULE																	
UNIT IDENTIFICATION	SYSTEM SERVED	TYPE	AIRFLOW CFM	T.S.P. IN. W.G.	MINIMUM WHEEL	RPM	CLASS	ARRANGEMENT	OUTLET VELOCITY		М	OTOR		MODULATION/ CONTROL TYPE		ELI	ECTRICAL							N	IAXIMUM SO	UND POWER	LEVELS						MODEL NUMBER	REMARKS
					DIAMETER INCHES				FPM	BHP	HP	RPM	DRIVE TYPE		VOLTS	PHASE	FLA	OPTIONS/ ACCESSORIES			UNIT DISCH	ARGE Lw	BY OCTAVE E	AND				UNIT INLET	Lw BY OCTA	VE BAND				
																		,,,,,,,	63 HZ (DB)	125 HZ (DB)	250 50 HZ H (DB) (D	00 100 Z H: B) (Di	7 (00)	Z 4000 HZ (DB)	8000 HZ (DB)	63 HZ (DB)	125 HZ (DB)	250 500 HZ HZ (DB) (DB	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)		
AHU-SF	AHU-1	PLENUM FAN	5000	6	20	2236		FAN ARRAY	N/A	6.75	7.5	1800	DIRECT	VFC	208	3	19.5		90	86	88 8	9 8	82	80	71	86	81	80 80	73	68	59	47 IN	SOLUTION IDOOR AIR HANDLER 84x96	JOHNSON CONTROL — TYPICAL FOR 4
RF-1	AHU-1	INLINE	18000	2.2	32	2036	II	9	2899	14.84	20	1725	BELT	VFC	208	3			91	92	95 9	7 9	5 91	89	84	83	87	94 94	83	89	88	83 QEI-	-24-II-200	GREENHECK— MOTOR MOUNTED AT 45 DEGREES
EF-1	RESTROOM EXHAUST	CENTRIFUGAL ROOF MOUNTED	1080	0.5	11.125	1562		DOWNBLAST	1200	0.24	1/4	1725	BELT	AUTO	120	1		D								71	72	74 68	61	59	54			GREENHECK
EF-2	RESTROOM EXHAUST	CENTRIFUGAL ROOF MOUNTED	200	0.375	11.188	970		DOWNBLAST	208	0.05	1/6	1725	BELT	AUTO	120	1		D								66	64	61 54	50	45	38	36 G	GB-081-6	GREENHECK

NOTE:

1. REFER TO SCHEDULES GENERAL NOTES. 2. FOR MODEL NUMBERS SEE REMARKS.

		MODUL	AR AIR	HANDL	ING UN	IT COM	PONEN	T SCHE	DULE	
UNIT IDENTIFICATION	POSITION NUMBER 1	POSITION NUMBER 2	POSITION NUMBER 3	POSITION NUMBER 4	POSITION NUMBER 5	POSITION NUMBER 6	POSITION NUMBER 7	POSITION NUMBER 8	MAXIMUM UNIT LENGTH (INCHES)	REMARKS
AHU-1	AIR BLENDER	FILTER	HEATING COIL	ACCESS	COOLING COILS	SUPPLY PLENUM	SUPPLY FAN	DISCHARGE PLENUM	214	

1. MODULES SELECTED BASED ON JCI SOLUTION INDOOR AIR HANDLING UNIT.
2. POSITION NUMBERS ARE INDICATED IN THE DIRECTION OF AIRFLOW FROM RETURN AIR INLET TO SUPPLY AIR DISCHARGE.

							Α	IR-COO	LED CC	NDEN	ISING	UNIT S	CHEDULE	Ξ							
UNIT IDENTIFICATION	SYSTEM SERVED	TOTAL CAPACITY	MINIMUM EER	REFRIGERATION TYPE	NUMBER OF CIRCUITS	NUMBER OF CONTROL	CONDI	ENSER	SUCTION TEMPERATURE	CONDENS	SER FAN	СОМІ	PRESSOR	MODULATION/ CONTROL TYPE			ELECTRICA	L		MODEL NUMBER	REMARKS
		МВН				STAGES	DESIGN AMBIENT TEMPERATURE F	MINIMUM AMBIENT TEMPERATURE F	F F	QUANTITY	HP EACH	NUMBER OF COMPRESSORS	TYPE OF COMPRESSOR		VOLTS	PHASE	MCA	MOP	OPTIONS/ ACCESSORIES		
ACCU-1	AHU-1	882	10.78	R-410A	2	4	95	50	45	4	5	4	SCROLL	AUTO	208	3	323.8	600	В	YCUL0072EE46	

REFER TO SCHEDULES GENERAL NOTES.
 MODEL NUMBERS ARE JCI UNLESS OTHERWISE NOTED.

3. EFFICIENCY RATING SHALL BE IN ACCORDANCE WITH ARI-STANDARD 340/360-2004.

																	UN	NITA	ARY	RO	OFT	ГОР	AIR	COI	VDIT	TION	IING UN	IIT SCHED	ULE															
NIT AREA D. SERVED			SUPPLY FAM	N			EXHAUS	T/RELIEF	FAN				CC	OLING SEC	CTION — D	OX					RAL AIR- CONDENS SECTION	SING			HEATI	ING SECT	TION — GAS FIRE	ED (NATURAL GAS)		FILT	TER SECTIO	DN		CURB		MAXIMUM	I UNIT DIMEN	INSIONS	MAXIMUM UNIT OPERATING	TOTAL I	UNIT ELEC	ECTRICAL	MODEL NO.	NOTES
				P. FAN . SPEED	D I I	HP AIRFLO	OW E.S.F M IN.	P. FAN SPEED S. RPM	BHP	IP MIXE	O AIR	UNIT LEAVING	AIR CO	INIT COOLI	NG G AIR	NET UNIT	NU	JMBER F OF RCUITS	REFRIG. TYPE	AMBIFNT	MIN.	NO. OF CAPACIT CONTRO	Y AIR	TEMP.	CAP/	ACITY (BH)	GAS PRESSURE TO GAS TRAIN IN. W.C.	MAXIMUM ALLOWABLE OUTPUT AT MINIMUM FIRING RATE	MIN. NO. OF CAPACITY CONTROL	TYPE MER	V AIR PR	RESS. DROP	,	TYPE	HEIGHT	LENGTH	HEIGHT (WITH CURB)	WIDTH W	WEIGHT LBS. (WITH CURB)	VOLTS F	PHASE M	MCA MOP		
		FLOW CFM		2.   INI W			11.0.			E.D.B. F	E.W.B. F	L.D.B. L	.W.B. L. F	D.B. L.\ F	W.B. TO F M	TAL SENS BH M		(00115		TF	F	STAGES	E.A.T.	L.A.T. F	INPUT	OUTPUT	, IIV. W.O.	(MBH)	STAGES		INITIAL IN. W.G	_ FINAL G. IN. W.G.	STANDARD	VIBRATION ISOLATION SPRING CURB										
1 FACULTY LOUNGE	1800	515	1 1.5	5 1179	1.1	1 550	0 0.25	5 1075	0.29 1,	/3 81.02	66.8	58.46 5	66.09 5	6.11 55	5.15 56	6.9 42	2.5	1 F	R-410A	95	40	1	49	105.5	130	104	7–14"	104	1	2" 8	0.18	0.2	FLAT	N/A	14	70	50	44	824	208	3 2	27.4 40	YSC060	
-2 CLASSROC 129CL		245	1 1.5	5 1029	1.4	1 420	0 0.25	5 1075	0.28 1,	/3 78.8	65.8	59.9	56.9 5	57.9 5	6.1 34	4.6 2	6.1	1 F	R-410A	95	40	1	56	103.3	80	64	7–14"	64	1	2" 8	0.09	0.2	FLAT	N/A	14	70	50	44	734	208	3 2	21.4 30	YSC036	
4 MEDIA CENTER 13	2000	560	1 1.6	5 1264	1.4	1 600	0 0.25	5 1075	0.30 1,	/3 80.6	66.1	59.4	56.8 5	57.0 5	5.8 57	7.4 46	6.5	1 F	R-410A	95	40	1	57.4	105.8	130	104	7–14"	104	1	2" 8	0.22	0.2	FLAT	N/A	14	70	50	44	824	208	3 2	27.4 40	YSC060	
-6 CLASSROC 239	1300	270	1 1.5	5 1057	0.75	1 430	0 0.25	5 1075	0.30 1,	/3 79.1	66.1	57.9	55 5	5.6 5	4.0 44	4.0 30	0.4	1 F	R-410A	95	40	1	55.5	101.3	80	64	7–14"	64	1	2" 8	0.11	0.2	FLAT	N/A	14	70	50	44	774	208	3 2	24.1 35	YSC048	
J-1 LOUNGE 1	30 2700	465				1 EXISTIN	ING RTU W	WITH NO R	RETURN F	AN 78.4	65.1	55 :	53.8 5	52.2 5.	2.2 10	)3.2 76	6.8	1	R-22						200	162													822	208	3 '	42 50		REBALANCE EXISTING UNIT ONLY
J-3 2ND FLOO OFFICES	R 1540	85				1 EXISTIN	NG RTU W	WITH NO R	RETURN F	AN 76.1	61.7	55	52.3 5	50.5 5	0.5 49	9.1 42	2.7	1	R-22						120	96												<b></b>	505	208	3 2	25.3 35		REBALANCE EXISTING UNIT ONLY
J-6 1ST FL00 OFFICES	R 1920	85			.	1 EXISTIN	NG RTU W	MITH NO R	RETURN F	AN 75.5	61.3	55	53 5	51.5 5	1.5 54	4.3 5	50	1	R-22						130	104												<b>  </b>	522	208	3 3	30.3 45		REBALANCE EXISTING UNI ONLY
J-7 CLASSROO	2200	400			.	1 EXISTIN	NG RTU W	MTH NO R	RETURN F	AN 78.6	66	55	54 5	53.4 5	3.4 68	8.8 4	19	1	R-22						130	104												<u> </u>	522	208	3 3	30.3 45		REBALANCE EXISTING UNI ONLY
J-10 DEAN'S 22 AND 228	1380	140				1 EXISTIN	NG RTU W	MITH NO R	RETURN F	AN 77.5	64.7	55	54	53 5	53 37	7.5 29	9.2	1	R-22						120	96												<u> </u>	480	208	3 2	20.6 30		REBALANCE EXISTING UNI ONLY
TU-11 COMPUTE LAB 236	R 1825	485				1 EXISTIN	NG RTU W	MTH NO R	RETURN F	AN 80.3	66.8	55	54.6	53.8 5	3.8 7	3.1 52	2.5	1	R-22						130	104												<u> </u>	522	208	3 3	30.3 45		REBALANCE EXISTING UNI ONLY
RTU-12 1ST FLOO ADMISSION	R IS 1800	95			.	1 EXISTIN	NG RTU W	MTH NO R	RETURN F	AN 76	63.1	55	54 5	53.4 5	3.4 49	9.4 4	4.1	1	R-22						130	104													522	208	3 3	30.3 45		REBALANCE EXISTING UNIT ONLY
REFER TO SCH	EDITIES CEN	NEDAL NOTES	•	7								•	•	•	•	•	•	-	•		-		•			•		-	•	•	•	7		-		•								

1. REFER TO SCHEDULES GENERAL NOTES.

3. DESIGN MINIMUM OUTSIDE AIRFLOW CFM (VENTILATION) LISTED IS BASED ON THE ESTIMATED MAXIMUM OCCUPANT LOAD. REFER TO TEMPERATURE CONTROL DRAWINGS FOR OUTSIDE AIR CONTROL SEQUENCE.

4. MERV DESIGNATES THE "MINIMUM EFFICIENCY REPORTING VALUE" AS EVALUATED UNDER ASHRAE STANDARD 52.2 1999.

5. AIR HANDLING UNIT TOTAL STATIC PRESSURE FOR VARIABLE AIR VOLUME SYSTEMS IS BASED ON THE FILTER DIRTY AIR PRESSURE DROP AND AVERAGE/MIDLIFE FILTER AIR PRESSURE DROP FOR CONSTANT VOLUME SYSTEMS UNLESS NOTED OTHERWISE.

6. UNIT SHALL HAVE A SINGLE POINT FLECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECT MEANS STARTERS AND CONTROLS

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**WAYNE STATE UNIVERSITY** FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

20 JAN 2015
19 DEC 2014
26 NOV 2014
31 OCT 2014
08 OCT 2014
26 AUG 2014

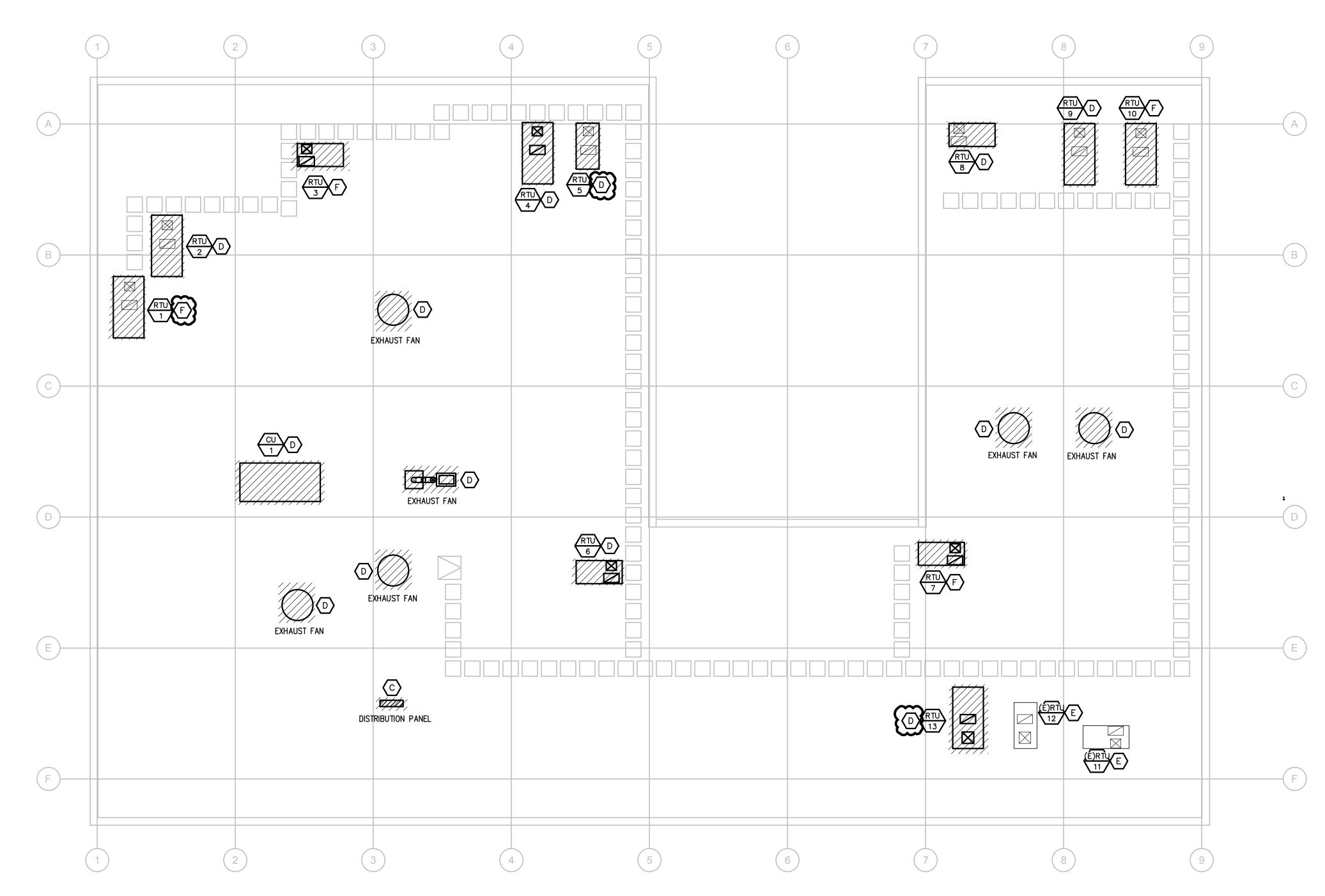
SCHOOL OF SOCIAL WORK

5447 Woodward, Detroit, MI

MECHANICAL SCHEDULES

Project Number: 20130	088.01   VVS	SU Project No: 063-233732
Drawn By: JTC	Approved By:	BMR
Scale: As indicated		

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.





ROOF ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" - 1' - 0"

#### **GENERAL DEMOLITION NOTES:**

- 1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
- 2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
- 3. REMOVE LIGHTING FIXTURES AND ELECTRICAL DEVICES AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE DEVICES SHOWN.
- 4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
- 5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
- 6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
- 7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
- 8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
- 9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
- 10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
- 11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS
- 12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
- 13. COORDINATE UTILITY SHUT DOWN AND REQUIREMENTS WITH UTILITY COMPANY. PROVIDE TEMPORARY BUILDING POWER AND ALL ASSOCIATED EQUIPMENT AND CABLES AS REQUIRED TO KEEP BUILDING OPERATIONAL FOR CONSTRUCTION

#### **#** DEMOLITION NOTES:

- A. REMOVE ELECTRICAL SYSTEM COMPONENTS AND DEVICES COMPLETE, INCLUDING, BUT NOT LIMITED TO: LIGHT FIXTURES, LIGHT SWITCHES, SWITCHBOARDS, POWER DISTRIBUTION PANELBOARDS, PANELBOARDS, RECEPTACLES, TELECOMMUNICATIONS OUTLETS, TELECOMMUNICATIONS WIRING, FIRE ALARM DEVICES, AUDIO/VISUAL SYSTEMS, JUNCTION BOXES, AND CONDUIT AND WIRING, UNLESS OTHERWISE NOTED.
- B. REMOVE DEVICE AND WIRING BACK TO SOURCE. CONDUIT AND BACK BOX TO
- (C.) REMOVE DISTRIBUTION PANEL AND FEEDER COMPLETE.
- D. REMOVAL OF UNIT BY OTHERS. REMOVE ALL ASSOCIATED ELECTRICAL COMPONENTS (DISCONNECTS. STARTERS. CONDUIT AND WIRING, ETC) COMPLETE.
- E. EXISTING RTU TO REMAIN. EXISTING STARTER AND DISCONNECT TO REMAIN AS APPLICABLE. REMOVE CONDUIT AND WIRING BACK TO SOURCE.
- F. RTU RELOCATED BY OTHERS. EXISTING STARTER AND DISCONNECT TO REMAIN AS APPLICABLE. REMOVE CONDUIT AND WIRING BACK TO SOURCE.
- (G.) REMOVE CAMERA AND WIRING BACK TO SOURCE. CONDUIT TO REMAIN.
- H. REPLACE LIGHTING FIXTURE IN EXISTING LOCATION. REMOVE WIRING BACK TO SOURCE. CONDUIT TO REMAIN FOR RE—USE IN NEW WORK.
- I. REMOVE EXTERIOR LIGHTING CONTACTOR, TIME CLOCK, CONDUIT AND WIRING TO

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Structural Engineer

MEP Engineer

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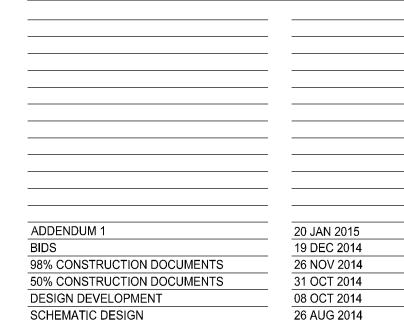
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#### **WAYNE STATE UNIVERSITY** FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan



### SCHOOL OF SOCIAL WORK

5447 Woodward, Detroit, MI Drawing Title

**ROOF ELECTRICAL DEMOLITION PLAN** 

Project Number: 2013088.01 WSU Project No: 063-233732

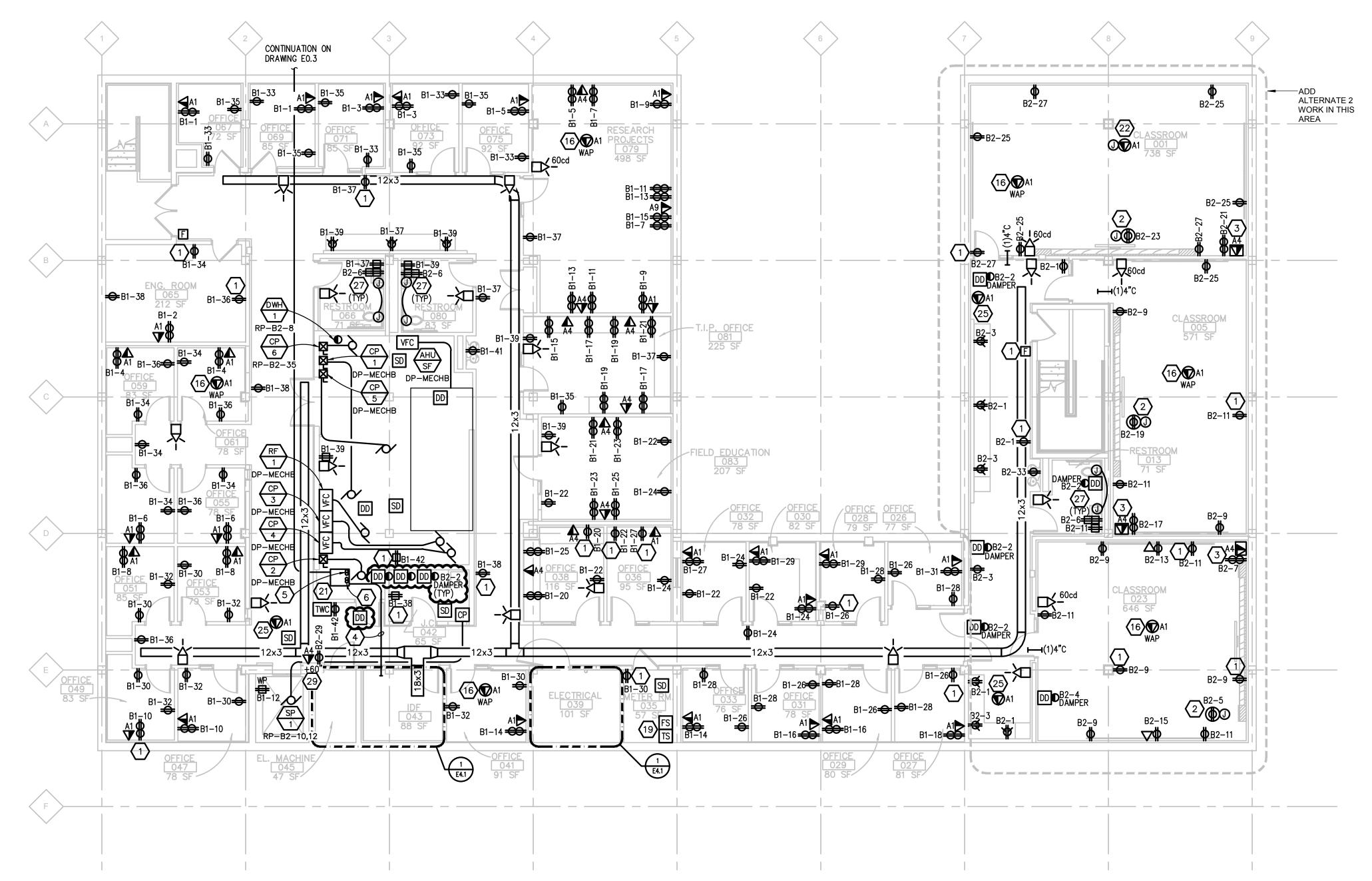
Scale: As indicated

ED1.3

SCHEMATIC DESIGN

Drawn By: WGH Approved By: MSG

THE FOLLOWING DIMENSION EQUALS
ONE INCH WHEN PRINTED TO SCALE.



LOWER LEVEL POWER AND AUXILIARY SYSTEMS PLAN

#### **GENERAL NOTES:**

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES AND LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND THE TRADES INSTALLING THE WORK.
- 8. COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- 9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- 10. PROVIDE EXTENSION RINGS AS REQUIRED ON ALL EXISTING FIRE ALARM, RECEPTACLE, TELECOMMUNICATIONS, EMPTY, ETC. BOXES ON WALLS THAT ARE BEING FIRRED OUT. EXTEND WIRING AS REQUIRED.
- 11. PROVIDE ALL JUNCTION BOXES, CONDUIT, AND FITTINGS AS REQUIRED FOR SECURITY DEVICES. REFER TO SECURITY DRAWINGS FOR SIZES, LOCATIONS, AND ADDITIONAL

#### (#) CONSTRUCTION KEY NOTES:

- 1. PROVIDE NEW DEVICE AND WIRING. REUSE EXISTING BACK BOX AND CONDUIT.
- 2. WALL MOUNTED MONITOR. WALL MOUNT AND MONITOR PROVIDED BY OTHERS. COORDINATE EXACT LOCATION WITH A/V DRAWINGS AND INSTALLING TRADES.
- 73. PROVIDE FSR BOX MODEL NUMBER WB-X3-SMCVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- (2)4"C FOR TELECOMMUNICATION WIRING. ROUTE CONDUIT IN SHAFT SPACE AS INDICATED ON E3.1 AND E3.2. STUB CONDUIT ABOVE FIRST FLOOR CABLE TRAY. REFER TO DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING 3.2.
- (2)4" C FOR MAIN TELECOMMUNICATION WIRING. CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWINGS E3.1 AND E3.2. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.2.
- (2)4"C FOR TELECOMMUNICATION WIRING. CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF IDF 043. REFER TO DRAWING E3.0. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.1.
- 7. PROVIDE FSR BOX MODEL NUMBER WB-X3-CVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- 8. CIRCUIT TO DP-MECH2 IN ELECTRICAL 235-B. REFER TO DRAWING E3.2 FOR
- (9.) 12" WIDE CABLE RUNWAY MOUNTED 12" ABOVE TOP OF TELECOM RACK.
- DISCONNECT SWITCH FOR ELEVATOR CONTROLLER. PROVIDE SHUNT TRIP ON SWITCH SO THAT UPON ACTIVATION OF HEAT DETECTORS IN ELEVATOR SHAFT, ELEVATOR CONTROLLER CAN OPEN SWITCH. PROVIDE 2#12 AND 1#12(G) 3/4"C. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR CAB LIGHTING. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR AND AUXILIARY CONTROLS. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- (13.) COORDINATE WITH MECHANICAL TRADES FOR SIAMESE CONNECTION LOCATION.
- 14.) REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE A ON DRAWING E8.1.
- 15.) REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE B ON DRAWING E8.1.
- MIRELESS ACCESS POINT. COIL ADDITIONAL 50' OF CABLING IN CEILING SPACE TO ALLOW FOR DEVICE RELOCATION AS REQUIRED TO ACHIEVE OPTIMAL COVERAGE. COORDINATE EXACT LOCATIONS WITH OWNER.
- EXTEND EXISTING CONDUIT AND CONDUCTORS FOR EXTERIOR LIGHTING TO NEW CONTACTOR AS REQUIRED. REFER TO BUILDING MOUNTED LIGHTING CONTROLLER DETAIL ON DRAWING E7.2 FOR CIRCUITING.
- (18.) REFER TO TWO WAY COMMUNICATION SYSTEM DIAGRAM ON DRAWING E7.2.
- PROVIDE FIRE ALARM SYSTEM COMPONENTS AS REQUIRED AND PROVIDE CABLE IN CONDUIT AND MAKE CONNECTIONS TO EACH TAMPER AND FLOW SWITCH PROVIDED WITH THE FIRE PROTECTION SYSTEM. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.
- 20) REFER TO SPLIT SYSTEM A/C UNIT POWER WIRING DIAGRAM ON DRAWING E7.2.
- 21. 26"L x 28"W x 7"D TELECOMMUNICATION PULLBOX.
- (22) CEILING MOUNTED CAMERA PROVIDED BY OTHERS.
- MOUNT FIRE ALARM APPLIANCE ON EXTERIOR BRICK WITH NO EXTERIOR EXPOSED CONDUIT. COORDINATE WITH EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 4"C ROOF PENETRATION FOR AT&T CABLING. COORDINATE EXACT LOCATION OF
- PENETRATION WITH AT&T.

  25. SECURITY CAMERA PROVIDED BY OTHERS. COORDINATE WITH SECURITY DRAWINGS AND TRADES FOR EXACT LOCATION.
- 26. REFER TO DETAIL ON DRAWING E8.2 FOR MONITORS IN COMP. LAB 225.
- PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL FOR URINAL/TOILET SENSORS. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL
- PROVIDE NEW TELECOMMUNICATIONS WIRING IN EXISTING EXTERIOR CONDUIT FOR EXTERIOR CAMERA. SECURITY CAMERA PROVIDED BY OTHERS.
- PROVIDE (1) UTP TO ADJACENT MDF 243.2 OR IDF 043 ROOM AND (1) STP TO MDF ROOM 243.2

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## WAYNE STATE UNIVERSITY FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

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ADDENDUM 1	
BIDS	19 DEC 2014
98% CONSTRUCTION DOCUMENTS	26 NOV 2014
50% CONSTRUCTION DOCUMENTS	31 OCT 2014
DESIGN DEVELOPMENT	08 OCT 2014

26 AUG 2014

## SCHOOL OF SOCIAL WORK

SCHEMATIC DESIGN

5447 Woodward, Detroit, MI Drawing Title

# LOWER LEVEL POWER AND AUXILIARY SYSTEMS PLAN

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: WGH Approved By: MSG

Scale: As indicated

Seal:

Signature:

Drawing No:

E3.0

FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

#### **GENERAL NOTES:**

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES AND LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND THE TRADES INSTALLING THE WORK.
- 8. COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- 9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- 10. PROVIDE EXTENSION RINGS AS REQUIRED ON ALL EXISTING FIRE ALARM, RECEPTACLE, TELECOMMUNICATIONS, EMPTY, ETC. BOXES ON WALLS THAT ARE BEING FIRRED OUT. EXTEND WIRING AS REQUIRED.
- 11. PROVIDE ALL JUNCTION BOXES, CONDUIT, AND FITTINGS AS REQUIRED FOR SECURITY DEVICES. REFER TO SECURITY DRAWINGS FOR SIZES, LOCATIONS, AND ADDITIONAL REQUIREMENTS

#### **#** CONSTRUCTION KEY NOTES:

- 1. PROVIDE NEW DEVICE AND WIRING, REUSE EXISTING BACK BOX AND CONDUIT.
- 2. WALL MOUNTED MONITOR. WALL MOUNT AND MONITOR PROVIDED BY OTHERS. COORDINATE EXACT LOCATION WITH A/V DRAWINGS AND INSTALLING TRADES.
- 73. PROVIDE FSR BOX MODEL NUMBER WB-X3-SMCVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- (2)4"C FOR TELECOMMUNICATION WIRING. ROUTE CONDUIT IN SHAFT SPACE AS INDICATED ON E3.1 AND E3.2. STUB CONDUIT ABOVE FIRST FLOOR CABLE TRAY. REFER TO DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING 3.2.
- (2)4" C FOR MAIN TELECOMMUNICATION WIRING. CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWINGS E3.1 AND E3.2. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.2.
- (2)4"C FOR TELECOMMUNICATION WIRING. CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF IDF 043. REFER TO DRAWING E3.0. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.1.
- PROVIDE FSR BOX MODEL NUMBER WB-X3-CVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- 8. CIRCUIT TO DP-MECH2 IN ELECTRICAL 235-B. REFER TO DRAWING E3.2 FOR
- (9.) 12" WIDE CABLE RUNWAY MOUNTED 12" ABOVE TOP OF TELECOM RACK.
- DISCONNECT SWITCH FOR ELEVATOR CONTROLLER. PROVIDE SHUNT TRIP ON SWITCH SO THAT UPON ACTIVATION OF HEAT DETECTORS IN ELEVATOR SHAFT, ELEVATOR CONTROLLER CAN OPEN SWITCH. PROVIDE 2#12 AND 1#12(G) 3/4"C. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR CAB LIGHTING. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR AND AUXILIARY CONTROLS. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- (13.) COORDINATE WITH MECHANICAL TRADES FOR SIAMESE CONNECTION LOCATION.
- (14.) REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE A ON DRAWING E8.1.
- 15. REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE B ON DRAWING E8.1.
- WIRELESS ACCESS POINT. COIL ADDITIONAL 50' OF CABLING IN CEILING SPACE TO ALLOW FOR DEVICE RELOCATION AS REQUIRED TO ACHIEVE OPTIMAL COVERAGE. COORDINATE EXACT LOCATIONS WITH OWNER.
- EXTEND EXISTING CONDUIT AND CONDUCTORS FOR EXTERIOR LIGHTING TO NEW CONTACTOR AS REQUIRED. REFER TO BUILDING MOUNTED LIGHTING CONTROLLER DETAIL ON DRAWING E7.2 FOR CIRCUITING.
- 18. REFER TO TWO WAY COMMUNICATION SYSTEM DIAGRAM ON DRAWING E7.2.
- PROVIDE FIRE ALARM SYSTEM COMPONENTS AS REQUIRED AND PROVIDE CABLE IN CONDUIT AND MAKE CONNECTIONS TO EACH TAMPER AND FLOW SWITCH PROVIDED WITH THE FIRE PROTECTION SYSTEM. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.
- 20 REFER TO SPLIT SYSTEM A/C UNIT POWER WIRING DIAGRAM ON DRAWING E7.2.
- 21. 26"L x 28"W x 7"D TELECOMMUNICATION PULLBOX.
- 22) CEILING MOUNTED CAMERA PROVIDED BY OTHERS.
- MOUNT FIRE ALARM APPLIANCE ON EXTERIOR BRICK WITH NO EXTERIOR EXPOSED CONDUIT. COORDINATE WITH EXACT LOCATION WITH ARCHITECTURAL DRAWNGS.
- 4"C ROOF PENETRATION FOR AT&T CABLING. COORDINATE EXACT LOCATION OF
- PENETRATION WITH AT&T.
- SECURITY CAMERA PROVIDED BY OTHERS. COORDINATE WITH SECURITY DRAWINGS AND TRADES FOR EXACT LOCATION.

  26. REFER TO DETAIL ON DRAWING E8.2 FOR MONITORS IN COMP. LAB 225.
- PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL FOR URINAL/TOILET SENSORS. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL
- PROVIDE NEW TELECOMMUNICATIONS WIRING IN EXISTING EXTERIOR CONDUIT FOR EXTERIOR CAMERA. SECURITY CAMERA PROVIDED BY OTHERS.
- PROVIDE (1) UTP TO ADJACENT MDF 243.2 OR IDF 043 ROOM AND (1) STP TO MDF ROOM 243.2

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Structural Engineer

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Desai/Nasr Consulting Engineer 6765 Daly Rd West Bloomfield, MI 48322

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## WAYNE STATE UNIVERSITY FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

ADDENDUM 1	20 JAN 2015
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DESIGN DEVELOPMENT	08 OCT 2014
SCHEMATIC DESIGN	26 AUG 2014

## SCHOOL OF SOCIAL WORK

5447 Woodward, Detroit, MI Drawing Title

# FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: WGH Approved By: MSG

Scale: As indicated

Seal:

Signature:

Drawing No:

E3.1



SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN
SCALE: 1/8" - 1" - 0"

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- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL
- 5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES AND LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND THE TRADES INSTALLING THE WORK.
- 8. COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
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- 10. PROVIDE EXTENSION RINGS AS REQUIRED ON ALL EXISTING FIRE ALARM, RECEPTACLE, TELECOMMUNICATIONS, EMPTY, ETC. BOXES ON WALLS THAT ARE BEING FIRRED OUT. EXTEND WIRING AS REQUIRED.
- 11. PROVIDE ALL JUNCTION BOXES, CONDUIT, AND FITTINGS AS REQUIRED FOR SECURITY DEVICES. REFER TO SECURITY DRAWINGS FOR SIZES, LOCATIONS, AND ADDITIONAL REQUIREMENTS

#### **(#)** CONSTRUCTION KEY NOTES:

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- 73. PROVIDE FSR BOX MODEL NUMBER WB-X3-SMCVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- (2)4"C FOR TELECOMMUNICATION WIRING. ROUTE CONDUIT IN SHAFT SPACE AS INDICATED ON E3.1 AND E3.2. STUB CONDUIT ABOVE FIRST FLOOR CABLE TRAY. REFER TO DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING 3.2.
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- 7. PROVIDE FSR BOX MODEL NUMBER WB-X3-CVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- 8. CIRCUIT TO DP-MECH2 IN ELECTRICAL 235-B. REFER TO DRAWING E3.2 FOR
- (9.) 12" WIDE CABLE RUNWAY MOUNTED 12" ABOVE TOP OF TELECOM RACK.
- DISCONNECT SWITCH FOR ELEVATOR CONTROLLER. PROVIDE SHUNT TRIP ON SWITCH SO THAT UPON ACTIVATION OF HEAT DETECTORS IN ELEVATOR SHAFT, ELEVATOR CONTROLLER CAN OPEN SWITCH. PROVIDE 2#12 AND 1#12(G) 3/4°C. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
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- (18.) REFER TO TWO WAY COMMUNICATION SYSTEM DIAGRAM ON DRAWING E7.2.
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- 20) REFER TO SPLIT SYSTEM A/C UNIT POWER WIRING DIAGRAM ON DRAWING E7.2.
- 21) 26"L x 28"W x 7"D TELECOMMUNICATION PULLBOX.
- 22 CEILING MOUNTED CAMERA PROVIDED BY OTHERS.
- MOUNT FIRE ALARM APPLIANCE ON EXTERIOR BRICK WITH NO EXTERIOR EXPOSED CONDUIT. COORDINATE WITH EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 4"C ROOF PENETRATION FOR AT&T CABLING. COORDINATE EXACT LOCATION OF PENETRATION WITH AT&T.
- SECURITY CAMERA PROVIDED BY OTHERS. COORDINATE WITH SECURITY DRAWINGS AND TRADES FOR EXACT LOCATION.
- 26) REFER TO DETAIL ON DRAWING E8.2 FOR MONITORS IN COMP. LAB 225.
- PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL FOR URINAL/TOILET SENSORS.
  PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL
- PROVIDE NEW TELECOMMUNICATIONS WIRING IN EXISTING EXTERIOR CONDUIT FOR EXTERIOR CAMERA. SECURITY CAMERA PROVIDED BY OTHERS.
- PROVIDE (1) UTP TO ADJACENT MDF 243.2 OR IDF 043 ROOM AND (1) STP TO MDF ROOM 243.2

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SCHEMATIC DESIGN	26 ALIG 2014

## SCHOOL OF SOCIAL WORK

5447 Woodward, Detroit, MI Drawing Title

#### SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: WGH Approved By: MSG

Scale: As indicated

Seal:

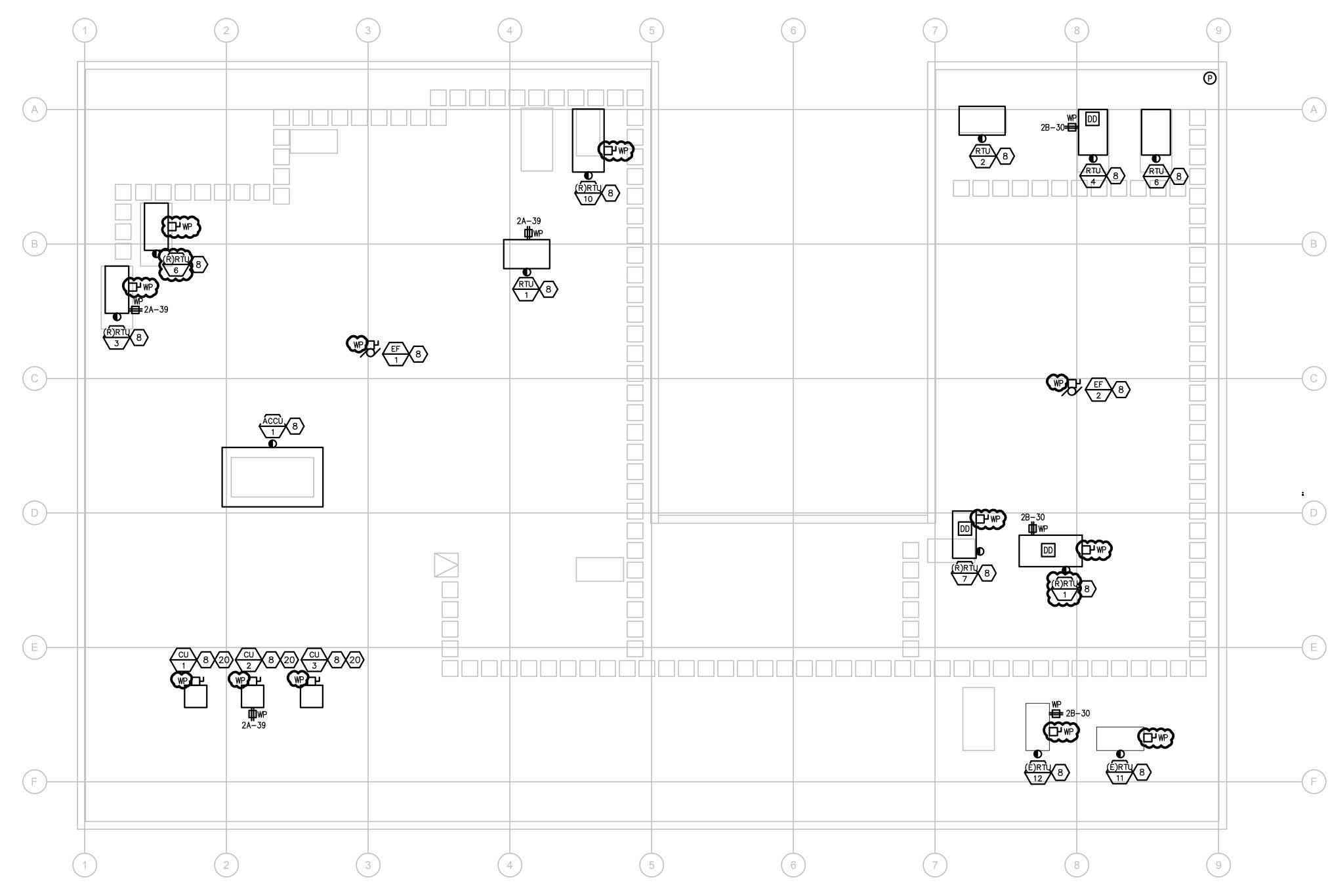
'

Signature:

Drawing No:

E3.2

THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE.



ROOF POWER AND AUXILIARY SYSTEMS PLAN

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- PROVIDE FSR BOX MODEL NUMBER WB-X3-SMCVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
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- 8. CIRCUIT TO DP-MECH2 IN ELECTRICAL 235-B. REFER TO DRAWING E3.2 FOR LOCATION.
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SCHOOL OF SOCIAL WORK

SCHEMATIC DESIGN

5447 Woodward, Detroit, MI Drawing Title

ROOF POWER AND AUXILIARY SYSTEMS PLAN

Project Number: 2013088.01 WSU Project No: 063-233732

Drawn By: WGH | Approved By: MSG

Scale: As indicated

Seal:

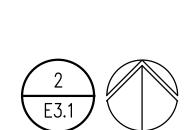
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Drawing No:

Signature:

g:\2013\2013-0358-00\Cad\2013-0358-E3-PP3.dwg, E3.3, 1/15/2015 10:13:31 AM, Gerard Hentrich, DWF6 ePlot.pc3 ,1.76067, Peter Ba

LOWER LEVEL ELEVATOR MACHINE, IDF AND ELECTRICAL ROOMS

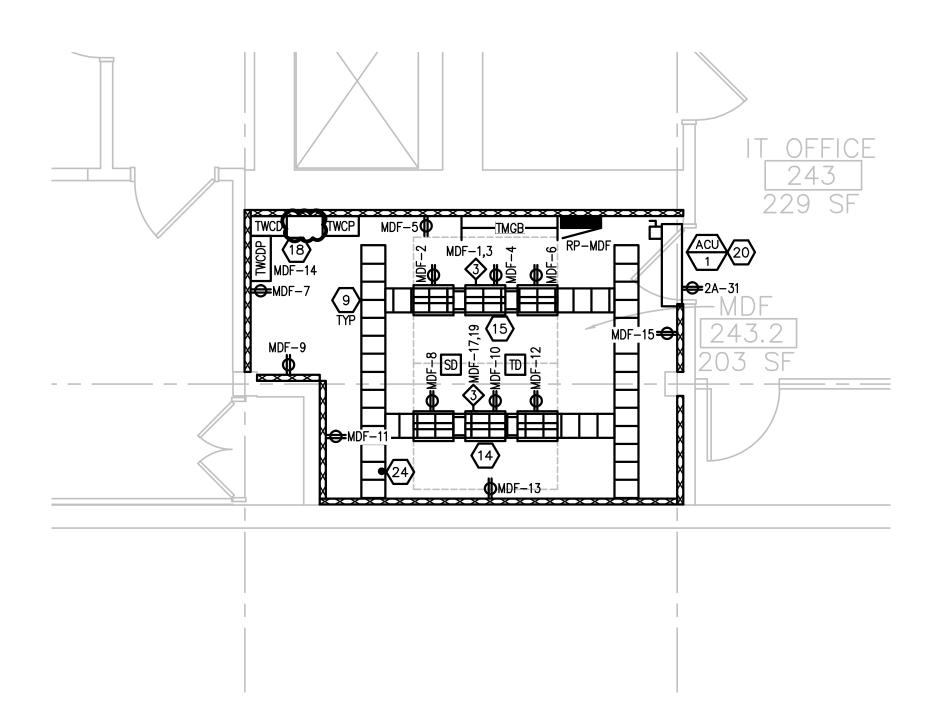


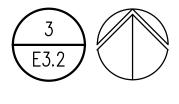
149

147

FIRST FLOOR ELECTRICAL ROOM 147 SCALE: 1/4" - 1' - 0"

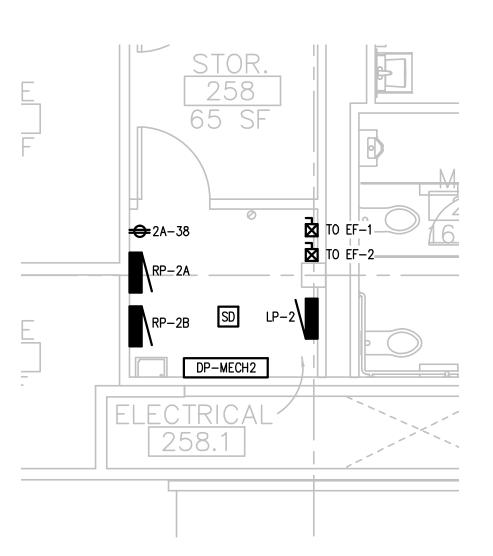
LP-1

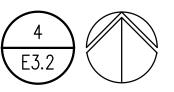




SCALE: 1/4" = 1' - 0"

**SECOND FLOOR MDF ROOM 243.2** 





**SECOND FLOOR ELECTRICAL ROOM 258.1** 

#### **GENERAL NOTES:**

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.

TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.

- 2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- 3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER
- 4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- 5. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH TRANSFORMER CIRCUIT SIZING SCHEDULE SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 6. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
- 7. COORDINATE THE MOUNTING HEIGHTS OF DEVICES AND LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND THE TRADES INSTALLING THE WORK.
- 8. COORDINATE EXACT LOCATIONS OF ALL FLOOR BOXES WITH FINAL FURNITURE LAYOUT DRAWINGS.
- 9. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
- 10. PROVIDE EXTENSION RINGS AS REQUIRED ON ALL EXISTING FIRE ALARM, RECEPTACLE, TELECOMMUNICATIONS, EMPTY, ETC. BOXES ON WALLS THAT ARE BEING FIRRED OUT. EXTEND WIRING AS REQUIRED.
- 11. PROVIDE ALL JUNCTION BOXES, CONDUIT, AND FITTINGS AS REQUIRED FOR SECURITY DEVICES. REFER TO SECURITY DRAWINGS FOR SIZES, LOCATIONS, AND ADDITIONAL

#### (#) CONSTRUCTION KEY NOTES:

- (1.) PROVIDE NEW DEVICE AND WIRING. REUSE EXISTING BACK BOX AND CONDUIT.
- (2.) WALL MOUNTED MONITOR. WALL MOUNT AND MONITOR PROVIDED BY OTHERS. COORDINATE EXACT LOCATION WITH A/V DRAWINGS AND INSTALLING TRADES.
- 73. PROVIDE FSR BOX MODEL NUMBER WB-X3-SMCVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- 4. (2)4"C FOR TELECOMMUNICATION WIRING. ROUTE CONDUIT IN SHAFT SPACE AS INDICATED ON E3.1 AND E3.2. STUB CONDUIT ABOVE FIRST FLOOR CABLE TRAY. REFER TO DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING 3.2.
- 5. (2)4" C FOR MAIN TELECOMMUNICATION WIRING, CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWINGS E3.1 AND E3.2. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.2.
- (2)4"C FOR TELECOMMUNICATION WIRING. CORE AND SEAL CEILING OF J.C. 042 AS REQUIRED. ROUTE CONDUIT IN SHAFT ABOVE AS INDICATED ON DRAWING E3.1. STUB CONDUIT IN ABOVE CEILING SPACE OF IDF 043. REFER TO DRAWING E3.0. STUB CONDUIT IN ABOVE CEILING SPACE OF MDF 243.2. REFER TO DRAWING E3.1.
- 7. PROVIDE FSR BOX MODEL NUMBER WB-X3-CVR-WHT. REFER TO DETAIL ON E8.2 FOR REQUIREMENTS.
- 8. CIRCUIT TO DP-MECH2 IN ELECTRICAL 235-B. REFER TO DRAWING E3.2 FOR LOCATION.
- 9. 12" WIDE CABLE RUNWAY MOUNTED 12" ABOVE TOP OF TELECOM RACK.
- 10. DISCONNECT SWITCH FOR ELEVATOR CONTROLLER. PROVIDE SHUNT TRIP ON SWITCH SO THAT UPON ACTIVATION OF HEAT DETECTORS IN ELEVATOR SHAFT, ELEVATOR CONTROLLER CAN OPEN SWITCH. PROVIDE 2#12 AND 1#12(G) - 3/4"C. COORDINATE EXACT REQUIREMENTS WITH ELEVATOR MANUFACTURER.
- PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR CAB LIGHTING. CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR.
- 12.) PROVIDE 20A/1P ENCLOSED CIRCUIT BREAKER CAPABLE OF BEING LOCKED OFF FOR ELEVATOR AND AUXILIARY CONTROLS. CIRCUIT AS INDICATED. COORDINATE EXACT
- MOUNTING LOCATION AND REQUIREMENTS WITH ELEVATOR CONTRACTOR. (13.) COORDINATE WITH MECHANICAL TRADES FOR SIAMESE CONNECTION LOCATION.
- (14.) REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE A ON DRAWING E8.1.
- (15.) REFER TO TELECOMMUNICATIONS RACK ELEVATION TYPE B ON DRAWING E8.1.
- WIRELESS ACCESS POINT. COIL ADDITIONAL 50' OF CABLING IN CEILING SPACE TO ALLOW FOR DEVICE RELOCATION AS REQUIRED TO ACHIEVE OPTIMAL COVERAGE. COORDINATE EXACT LOCATIONS WITH OWNER.
- EXTEND EXISTING CONDUIT AND CONDUCTORS FOR EXTERIOR LIGHTING TO NEW CONTACTOR AS REQUIRED. REFER TO BUILDING MOUNTED LIGHTING CONTROLLER DETAIL ON DRAWING E7.2 FOR CIRCUITING.
- (18.) REFER TO TWO WAY COMMUNICATION SYSTEM DIAGRAM ON DRAWING E7.2.
- 19. PROVIDE FIRE ALARM SYSTEM COMPONENTS AS REQUIRED AND PROVIDE CABLE IN CONDUIT AND MAKE CONNECTIONS TO EACH TAMPER AND FLOW SWITCH PROVIDED WITH THE FIRE PROTECTION SYSTEM. COORDINATE EXACT LOCATIONS, QUANTITIES, AND REQUIREMENTS WITH FIRE SUPPRESSION CONTRACTOR.
- (20) REFER TO SPLIT SYSTEM A/C UNIT POWER WIRING DIAGRAM ON DRAWING E7.2.
- (21.) 26"L x 28"W x 7"D TELECOMMUNICATION PULLBOX.
- (22) CEILING MOUNTED CAMERA PROVIDED BY OTHERS.
- MOUNT FIRE ALARM APPLIANCE ON EXTERIOR BRICK WITH NO EXTERIOR EXPOSED CONDUIT. COORDINATE WITH EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
- 4"C ROOF PENETRATION FOR AT&T CABLING. COORDINATE EXACT LOCATION OF PENETRATION WITH AT&T.
- 25) SECURITY CAMERA PROVIDED BY OTHERS. COORDINATE WITH SECURITY DRAWINGS AND TRADES FOR EXACT LOCATION.
- 26. REFER TO DETAIL ON DRAWING E8.2 FOR MONITORS IN COMP. LAB 225.  $\langle 27. \rangle$  provide two gang junction box flush in wall for urinal/toilet sensors. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL
- 28. PROVIDE NEW TELECOMMUNICATIONS WIRING IN EXISTING EXTERIOR CONDUIT FOR EXTERIOR CAMERA. SECURITY CAMERA PROVIDED BY OTHERS.
- PROVIDE (1) UTP TO ADJACENT MDF 243.2 OR IDF 043 ROOM AND (1) STP TO MDF ROOM 243.2

HamiltonAnderson architecture landscape architecture urban design

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#### **WAYNE STATE UNIVERSITY** FP&M

5454 Cass Avenue Detroit, Michigan

Key Plan

ADDENDUM 1 19 DEC 2014 98% CONSTRUCTION DOCUMENTS 26 NOV 2014 50% CONSTRUCTION DOCUMENTS 31 OCT 2014 DESIGN DEVELOPMENT 08 OCT 2014 SCHEMATIC DESIGN 26 AUG 2014

## SCHOOL OF **SOCIAL WORK**

5447 Woodward, Detroit, MI Drawing Title

#### **ENLARGED ELECTRICAL PLANS**

Project Number: 2013088.01 WSU Project No: 063-233732 Drawn By: WGH Approved By: MSG

Scale: As indicated

Seal:

Signature:

-EXISTING DTE NETBANK

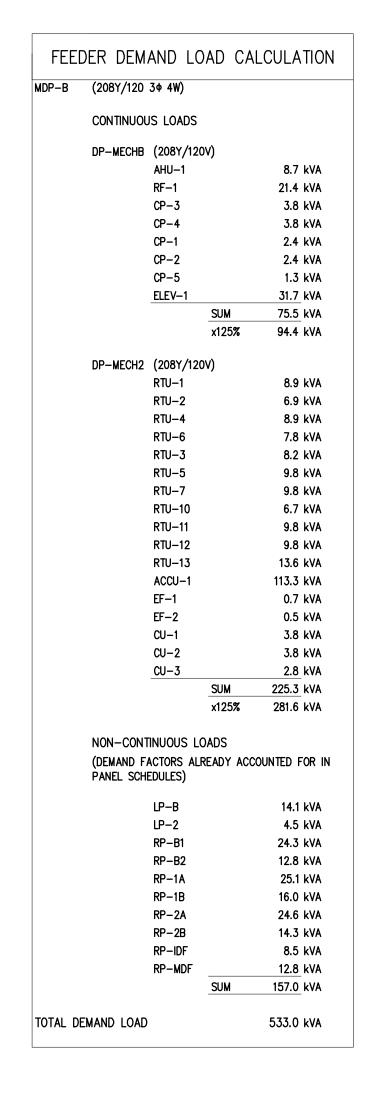
## ONE LINE DIAGRAM

#### **GENERAL NOTES:**

- 1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
- 2. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- 3. TRANSFORMER SECONDARY CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "TRANSFORMER CIRCUIT SIZING SCHEDULE—GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
- 5. BASIS OF DESIGN IS SQUARE D DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT FROM OTHER APPROVED MANUFACTURERS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THE LAYOUT AND CLEARANCE REQUIREMENTS IN ALL SPACES CONTAINING ELECTRICAL EQUIPMENT AND PROVIDE EQUIPMENT MEETING THE SPECIFICATIONS AND ACHIEVING CODE REQUIRED CLEARANCES WITHIN THE SPACE PROVIDED.
- 6. SELECTIVE COORDINATION (PER NEC ARTICLE 700.27) IS BASED ON SQUARE D DISTRIBUTION EQUIPMENT AND ASCO TRANSFER SWITCHES. ELECTRICAL CONTRACTOR SHALL SUBMIT SELECTIVE COORDINATION STUDY WITH TIME CURRENT CHARACTERISTIC CURVES (AND TABLES FOR TESTED PAIR INSTANTANEOUS COORDINATION) FOR THE EMERGENCY SYSTEMS. ELECTRICAL CONTRACTORS SHALL RECEIVE APPROVED SHOP DRAWINGS BACK FROM ENGINEER OF RECORD PRIOR TO PURCHASING OR INSTALLING ANY ELECTRICAL DISTRIBUTION EQUIPMENT. BREAKERS MUST BE COORDINATED WITH AUTOMATIC TRANSFER SWITCHES 3—CYCLE WITHSTAND RATING. ALTERNATE MANUFACTURERS SHALL MEET SELECTIVE COORDINATION CRITERIA AT NO ADDITIONAL COST TO THE PROJECT.
- 7. BRANCH CIRCUIT CONDUCTORS, FEEDERS, AND BRANCH CIRCUIT OVERCURRENT PROTECTION ARE SIZED AT 125% OF THE TOTAL CONTINUOUS AND NON CONTINUOUS LOAD FOR LIGHTING AND MOTOR LOADS THAT RUN CONTINUOUSLY FOR THREE HOURS OR MORE (NEC 210.19 A, 210.20 A, AND 215.2 A). DEMAND AND CONNECTED LOADS ARE CALCULATED PER NEC 220.
- 8. VARIABLE FREQUENCY CONTROLLERS (VFC) PROVIDED BY MECHANICAL TRADES. ELECTRICAL CONTRACTOR SHALL INSTALL VFC, PROVIDE POWER FEEDER FROM DISTRIBUTION EQUIPMENT TO VFC AND PROVIDE POWER FEEDER FROM VFC TO MOTOR. REFER TO SPECIFICATIONS FOR APPLICATION OF VFC POWER CABLE FROM VFC TO MOTOR.
- COORDINATE UTILITY SHUT DOWN AND REQUIREMENTS WITH UTILITY COMPANY. PROVIDE TEMPORARY BUILDING POWER AND ALL ASSOCIATED EQUIPMENT AND CABLES AS REQUIRED TO KEEP BUILDING OPERATIONAL FOR CONSTRUCTION PURPOSES.

#### **#** CONSTRUCTION KEY NOTES:

- DTE METERING CABINET WITHIN NEW SWITCHBOARD. PROVIDE DTE METERING (PARK DETROIT, OR ENGINEER APPROVED EQUAL). COORDINATE EXACT REQUIREMENTS WITH
- 2. RE-CONNECT EXISTING DTE SECONDARY CABLING. COORDINATE EXACT REQUIREMENTS WITH DTE.



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# WAYNE STATE UNIVERSITY

Client

## WAYNE STATE UNIVERSITY FP&M

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Key Plan

ADDENDUM 1

BIDS

98% CONSTRUCTION DOCUMENTS

50% CONSTRUCTION DOCUMENTS

DESIGN DEVELOPMENT

SCHEMATIC DESIGN

20 JAN 2015

19 DEC 2014

26 NOV 2014

31 OCT 2014

26 AUG 2014

26 AUG 2014

### SCHOOL OF SOCIAL WORK

5447 Woodward, Detroit, MI

ONE LINE DIAGRAM

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| Drawn By: WGH | Approved By: MSG |
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Signature: \_

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E5.1