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MILWAUKEE PUBLIC LIBRARY: MULTI-BUILDING ALTERATIONS

ATKINSON STREET BRANCH
CENTER STREET BRANCH
CENTRAL LIBRARY

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
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KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	NE
PROJECT NUMBER	201829-01
DATE	06-03-2019

FLOOR PLANS - ATKINSON STREET BRANCH

A101

GENERAL NOTES

- EXISTING CONDITIONS: EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACT.
- REFER TO SHEET XXXX FOR WALL TYPES AND THIS SHEET FOR TYPICAL MOUNTING HEIGHTS. REFER TO INTERIOR ELEVATION SHEETS FOR ROOM SPECIFIC FIXTURE MOUNTING HEIGHTS.
- DIMENSIONS FOR STUD WALLS ARE TO CENTERLINE OF STUD, UNLESS OTHERWISE INDICATED. CMU WALLS ARE DIMENSIONED TO FACE OF WALL.
- ALL WALL MOUNTED EQUIPMENT TO BE EITHER BY CONTRACTOR OR BY OWNER WILL REQUIRE PROPER BLOCKING. WALL MOUNTED EQUIPMENT WILL INCLUDE CABINETS, TRIM, COAT HOOKS, COUNTERTOPS, ETC. SEE SPECIFICATION FOR DESCRIPTION OF BLOCKING.
- FIRE STOP ALL PENETRATIONS THRU RATED WALLS.
- REFER TO REFLECTED CEILING PLANS & CLERESTORY PLANS FOR THE LOCATIONS OF WINDOW SHADES.
- REQUIRED MEANS OF EGRESS FROM THE EXISTING BUILDING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION WHEN THE BUILDING REMAINS OCCUPIED. IN THE EVENT THAT AN EXISTING MEANS OF EGRESS CANNOT BE MAINTAINED, THE GENERAL CONTRACTOR SHALL PROVIDE AN APPROVED TEMPORARY MEANS OF EGRESS.

DEMO FLOOR PLAN KEYNOTES

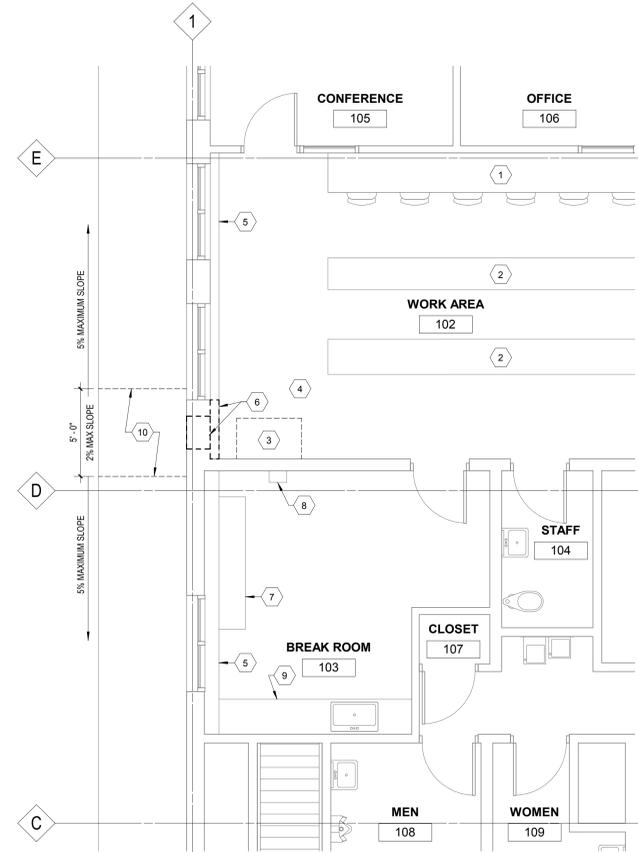
- 1 COUNTERTOP TO REMAIN
- 2 BOOKSHELVES TO REMAIN
- 3 DATA CABINET TO BE RELOCATED BY OWNER
- 4 SALVAGE EXISTING CARPET TILE IN WORK AREA 102 FOR REUSE IN STORAGE 101
- 5 RADIANT HEATER TO REMAIN
- 6 MODIFY RADIANT HEATER AND CUT OPENING IN EXTERIOR WALL FOR BOOK DROP
- 7 LOCKERS AND COAT RACK TO REMAIN
- 8 WALL MOUNTED CABINET TO REMAIN
- 9 CASEWORK TO REMAIN
- 10 CONCRETE WALK REPLACEMENT BY OWNER; EXISTING GRADES AND CONCRETE WALK AT BOOK DROP LOCATION MUST BE MODIFIED TO PROVIDE A MAX SLOPE OF 2%; CURRENT SLOPE IS 3.4%

FLOOR PLAN KEYNOTES

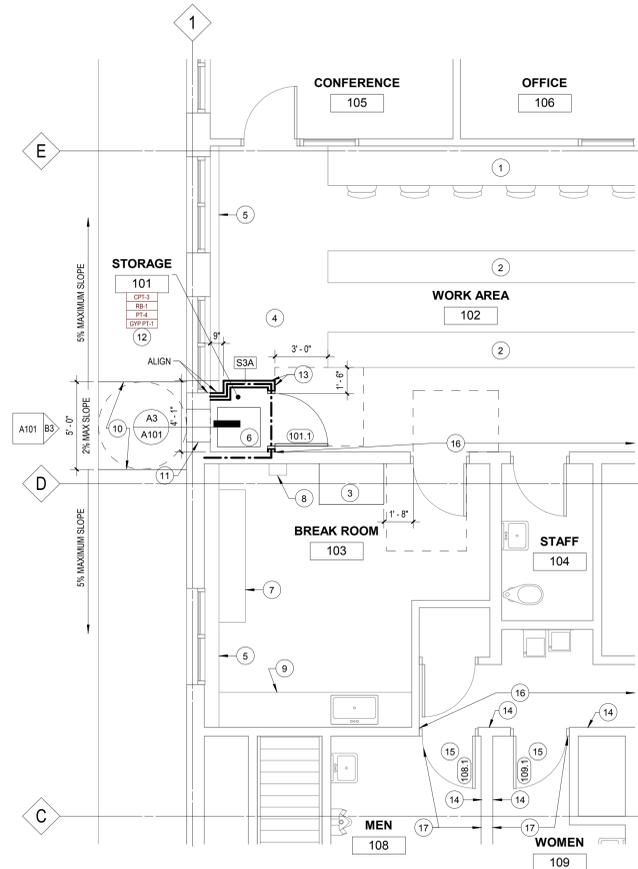
- 1 COUNTERTOP TO REMAIN
- 2 BOOKSHELVES TO REMAIN
- 3 RELOCATED DATA CABINET BY OWNER
- 4 EXISTING LAY-IN CEILING TILE AND GRID TO REMAIN; MODIFY TO ACCOMMODATE NEW CONSTRUCTION
- 5 RADIANT HEATER TO REMAIN
- 6 CART PROVIDED BY OWNER
- 7 LOCKERS AND COAT RACK TO REMAIN
- 8 WALL MOUNTED CABINET TO REMAIN
- 9 CASEWORK TO REMAIN
- 10 CONCRETE WALK REPLACEMENT BY OWNER; EXISTING GRADES AND CONCRETE WALK AT BOOK DROP LOCATION MUST BE MODIFIED TO PROVIDE A MAX SLOPE OF 2%; CURRENT SLOPE IS 3.4%
- 11 BOOK DROP: 10-8100 EASE SINGLE THRUWALL WITH 19-0001 THICK WALL EXTENSION KIT BY KINGSLEY
- 12 1 HOUR RATED GYP BOARD CEILING ASSEMBLY, SEE B6/G-001
- 13 PT-4 ON NEW WALL CONSTRUCTION
- 14 ACCESSIBLE AUTOMATIC DOOR OPENER; REFER TO ELECTRICAL
- 15 PROVIDE ASSOCIATED HARDWARE FOR AUTOMATIC OPENER
- 16 PAINT EXISTING WALL FULL HEIGHT TO NEAREST CORNER IN BOTH DIRECTIONS IF WALL PATCHING IS NOT CONCEALED BY NEW CONSTRUCTION. MATCH EXISTING PAINT COLOR AND SHEEN. EXISTING WALL BASE TO REMAIN
- 17 EXISTING CERAMIC WALL TILE TO REMAIN. LIMIT DAMAGE TO AREA CONCEALED BY DOOR OPENER AND CONTROLS

FINISH TAG

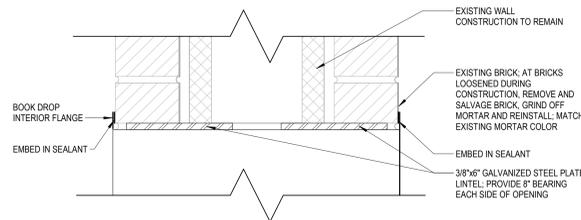
FLOOR
BASE
WALL
CEILING



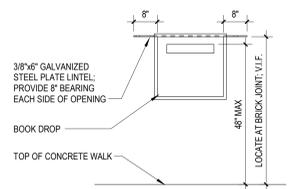
C5 ATKINSON STREET BRANCH - LEVEL 1 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



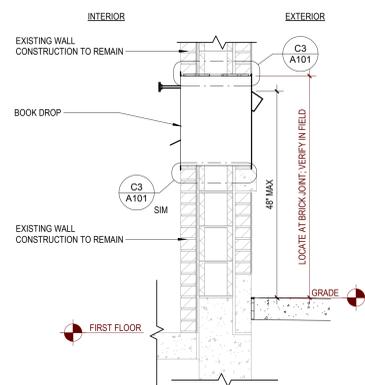
A5 ATKINSON STREET BRANCH - LEVEL 1 - FLOOR PLAN
1/4" = 1'-0"



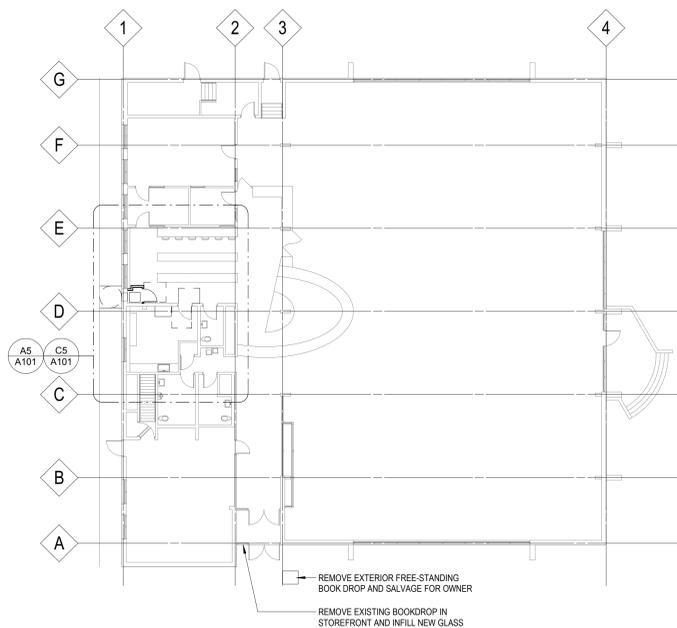
C3 BOOK DROP HEAD - ATKINSON STREET
3/8" = 1'-0"



B3 ATKINSON BOOK DROP
1/2" = 1'-0"



A3 BOOK DROP - ATKINSON STREET
3/4" = 1'-0"



A1 OVERALL FLOOR PLAN - ATKINSON STREET BRANCH
1/16" = 1'-0"



PROJECT INFORMATION

MILWAUKEE PUBLIC LIBRARY:
MULTI-BUILDING ALTERATIONS

ATKINSON STREET BRANCH
CENTER STREET BRANCH
CENTRAL LIBRARY

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
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KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	NE
PROJECT NUMBER	201829-01
DATE	06-03-2019

FLOOR PLANS -
CENTER STREET
BRANCH

A102

GENERAL NOTES

- EXISTING CONDITIONS: EXISTING CONDITIONS SHOWN ON DRAWINGS REPRESENT CURRENT BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. REPORT ANY DISCREPANCIES TO THE ARCHITECT FOR REVIEW. WORK DONE WITHOUT RESOLUTION OF DISCREPANCIES MUST BE REDONE AT THE REQUEST OF THE ARCHITECT AT NO ADDITIONAL COST TO THE CONTRACT.
- REFER TO SHEET XXX FOR WALL TYPES AND THIS SHEET FOR TYPICAL MOUNTING HEIGHTS. REFER TO INTERIOR ELEVATION SHEETS FOR ROOM SPECIFIC FIXTURE MOUNTING HEIGHTS.
- DIMENSIONS FOR STUD WALLS ARE TO CENTERLINE OF STUD, UNLESS OTHERWISE INDICATED. CMU WALLS ARE DIMENSIONED TO FACE OF WALL.
- ALL WALL MOUNTED EQUIPMENT TO BE EITHER BY CONTRACTOR OR BY OWNER WILL REQUIRE PROPER BLOCKING. WALL MOUNTED EQUIPMENT WILL INCLUDE CABINETS, TRIM COAT HOOKS, COUNTERTOPS, ETC. SEE SPECIFICATION FOR DESCRIPTION OF BLOCKING.
- FIRE STOP ALL PENETRATIONS THRU RATED WALLS.
- REFER TO REFLECTED CEILING PLANS & CLERESTORY PLANS FOR THE LOCATIONS OF WINDOW SHADES.
- REQUIRED MEANS OF EGRESS FROM THE EXISTING BUILDING SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION WHEN THE BUILDING REMAINS OCCUPIED. IN THE EVENT THAT AN EXISTING MEANS OF EGRESS CANNOT BE MAINTAINED, THE GENERAL CONTRACTOR SHALL PROVIDE AN APPROVED TEMPORARY MEANS OF EGRESS.

BID ALTERNATES

- AUTOMATIC OPENERS AT CENTER STREET TO BE BID AS AN ALTERNATE; REFER TO KEYNOTES 12 AND 13 ON SHEET A102

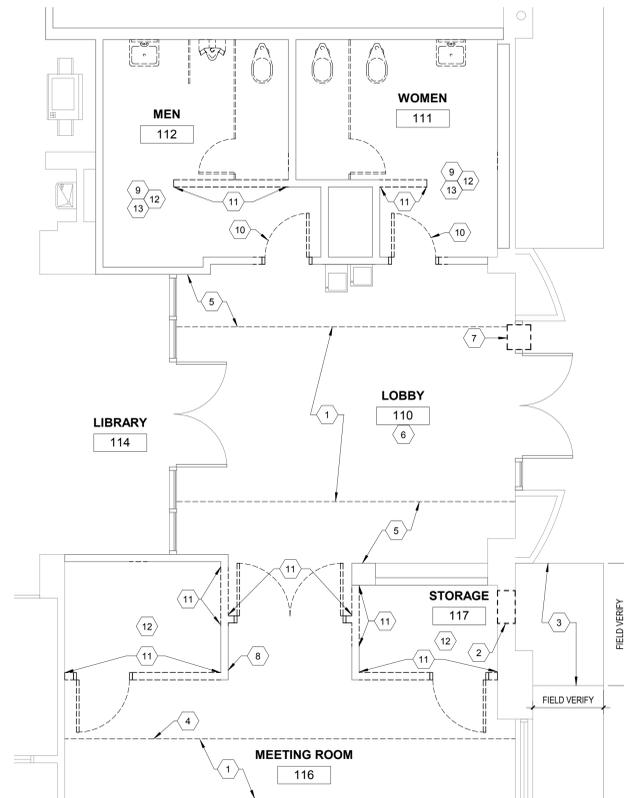
DEMO FLOOR PLAN KEYNOTES

- EXISTING FLOORING TO REMAIN; SALVAGE EXISTING CARPET TILE FOR REUSE
- CUT OPENING IN EXTERIOR WALL FOR BOOK DROP
- REMOVE EXISTING TREE, LANDSCAPING, PLANTER FENCING AND TOP SOIL TO PREPARE FOR NEW CONCRETE WALK AT BOOK DROP APPROACH
- REMOVE CARPET TO EXTENTS SHOWN
- REMOVE CERAMIC FLOOR TILE TO EXTENTS SHOWN; REMOVE TO NEAREST EXISTING GROUT JOINT
- REMOVE ALL CERAMIC TILE WALL BASE IN LOBBY
- REMOVE EXISTING BOOKDROP FROM EXISTING STOREFRONT AND PREP OPENING FOR NEW GLASS; REMOVE EXISTING BOOK DROP FIRE SUPPRESSION SYSTEM OVERHEAD
- REMOVE AND SALVAGE SIGN FOR REINSTALLATION
- REMOVE EXISTING CERAMIC WALL, FLOOR TILE AND BASE
- REMOVE EXISTING DOOR AND FRAME; ENLARGE EXISTING OPENING
- REMOVE EXISTING WALL
- REMOVE EXISTING CEILING
- REMOVE EXISTING FIXTURES, PARTITIONS AND ACCESSORIES

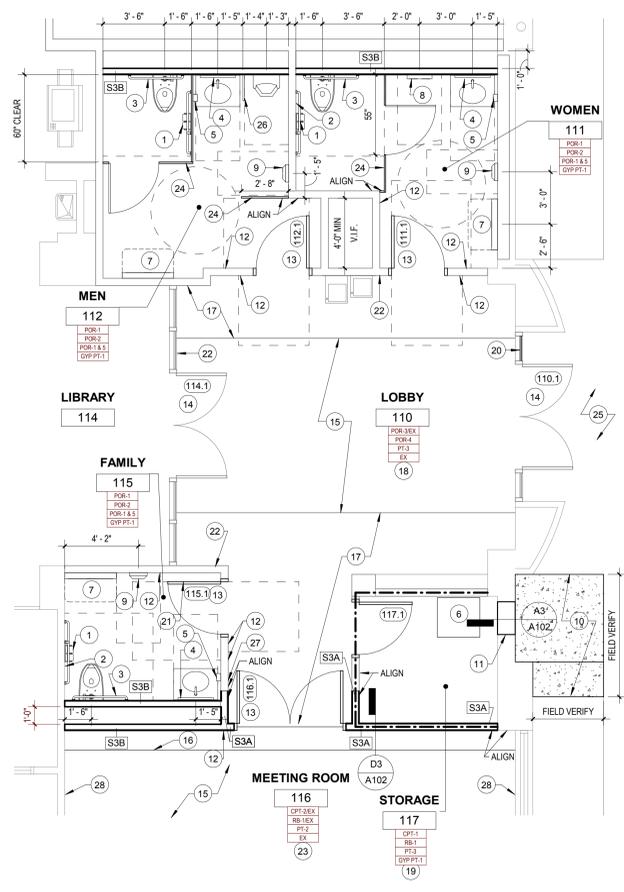
FLOOR PLAN KEYNOTES

- TOILET PAPER DISPENSER; TP-1
- SANITARY NAPKIN DISPOSAL; ND-1
- GRAB BARS
- 24X36 MIRROR; MR-1
- LIQUID SOAP DISPENSER; SD-1
- CART PROVIDED BY OWNER
- BABY CHANGING STATION; CH-1
- SANITARY NAPKIN DISPENSOR; VR-1
- ELECTRIC HAND DRYER; HD-1
- 5" THICK CONCRETE PAVING ON 6" DENSE GRADED AGGREGATE BASE (3/4") ON COMPACTED SUBGRADE; DOWEL INTO EXISTING CONCRETE AT 2' O.C. AT PERIMETER; MATCH EXISTING TOP OF CONCRETE ELEVATIONS; PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING; 2% SLOPE MAX.
- BOOK DROP; 10-1100 EASE SINGLE THRU WALL BY KINGSLEY
- ACCESSIBLE AUTOMATIC DOOR OPENER; REFER TO ELECTRICAL
- PROVIDE ASSOCIATED HARDWARE FOR AUTOMATIC OPENER
- PROVIDE ELECTRIFIED HARDWARE; COORDINATE WITH CARD ACCESS. SEE ELECTRICAL.
- EXISTING FLOORING AND WALK-OFF MAT AND GRATE TO REMAIN
- PATCH IN NEW CARPET
- PATCH IN NEW PORCELAIN FLOOR TILE
- PROVIDE PORCELAIN TILE BASE IN LOBBY
- 1 HOUR RATED GYP BOARD CEILING ASSEMBLY; SEE B6/G-001
- INFILL GLASS AND REPAIR STOREFRONT TO MATCH SURROUNDING STOREFRONT AT LOCATION OF REMOVED BOOKDROP
- COAT HOOK ON CENTERED ON BACK OF DOOR; MR-1
- EXISTING MURALS TO REMAIN; STOP PAINT AT STOREFRONT HEAD HEIGHT
- PAINT NORTH WEST WALL
- TOILET PARTITION
- EXISTING CONCRETE TO REMAIN
- URNAL SCREEN
- REINSTALL SALVAGED SIGN
- PAINT EXISTING WALL FULL HEIGHT TO NEAREST CORNER IN BOTH DIRECTIONS IF WALL PATCHING IS NOT CONCEALED BY NEW CONSTRUCTION. MATCH EXISTING PAINT COLOR AND SHEEN. EXISTING WALL BASE TO REMAIN

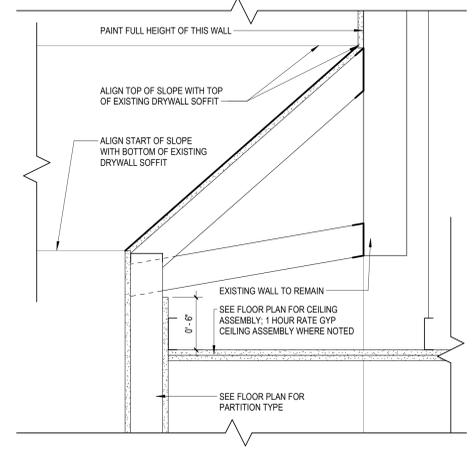
FINISH TAG
FLOOR
BASE
WALL
CEILING



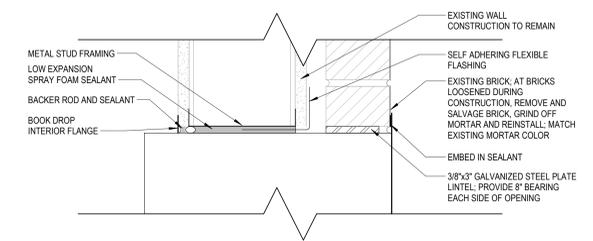
C5 CENTER STREET BRANCH - LEVEL 1 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



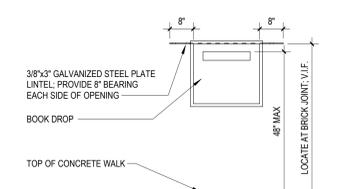
A5 CENTER STREET BRANCH - LEVEL 1 - FLOOR PLAN
1/4" = 1'-0"



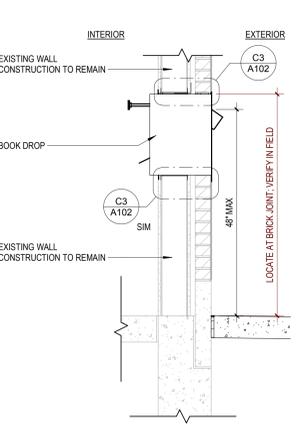
D3 TOP OF WALL
1/2" = 1'-0"



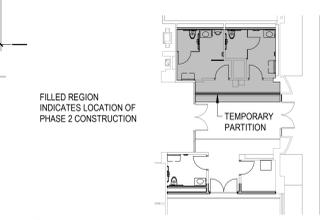
C3 BOOK DROP HEAD - CENTER STREET
3" = 1'-0"



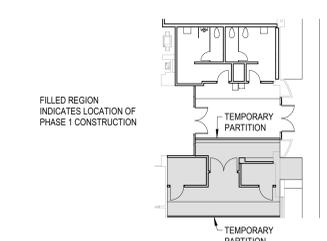
B3 CENTER STREET BOOK DROP
1/2" = 1'-0"



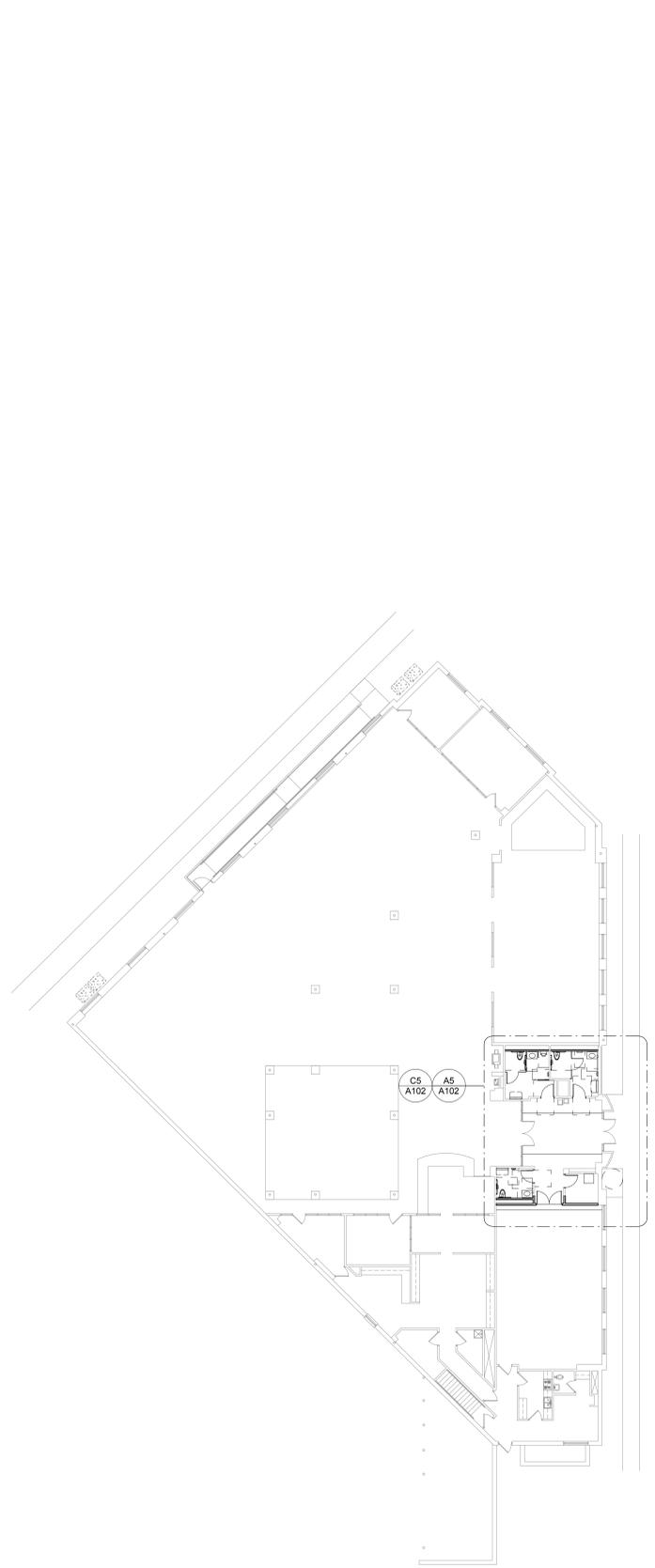
A3 BOOK DROP - CENTER STREET
3/4" = 1'-0"



B4 CENTER STREET BRANCH - PHASE 2
1/16" = 1'-0"



A4 CENTER STREET BRANCH - PHASE 1
1/16" = 1'-0"



A1 OVERALL FLOOR PLAN - CENTER STREET BRANCH
1/16" = 1'-0"

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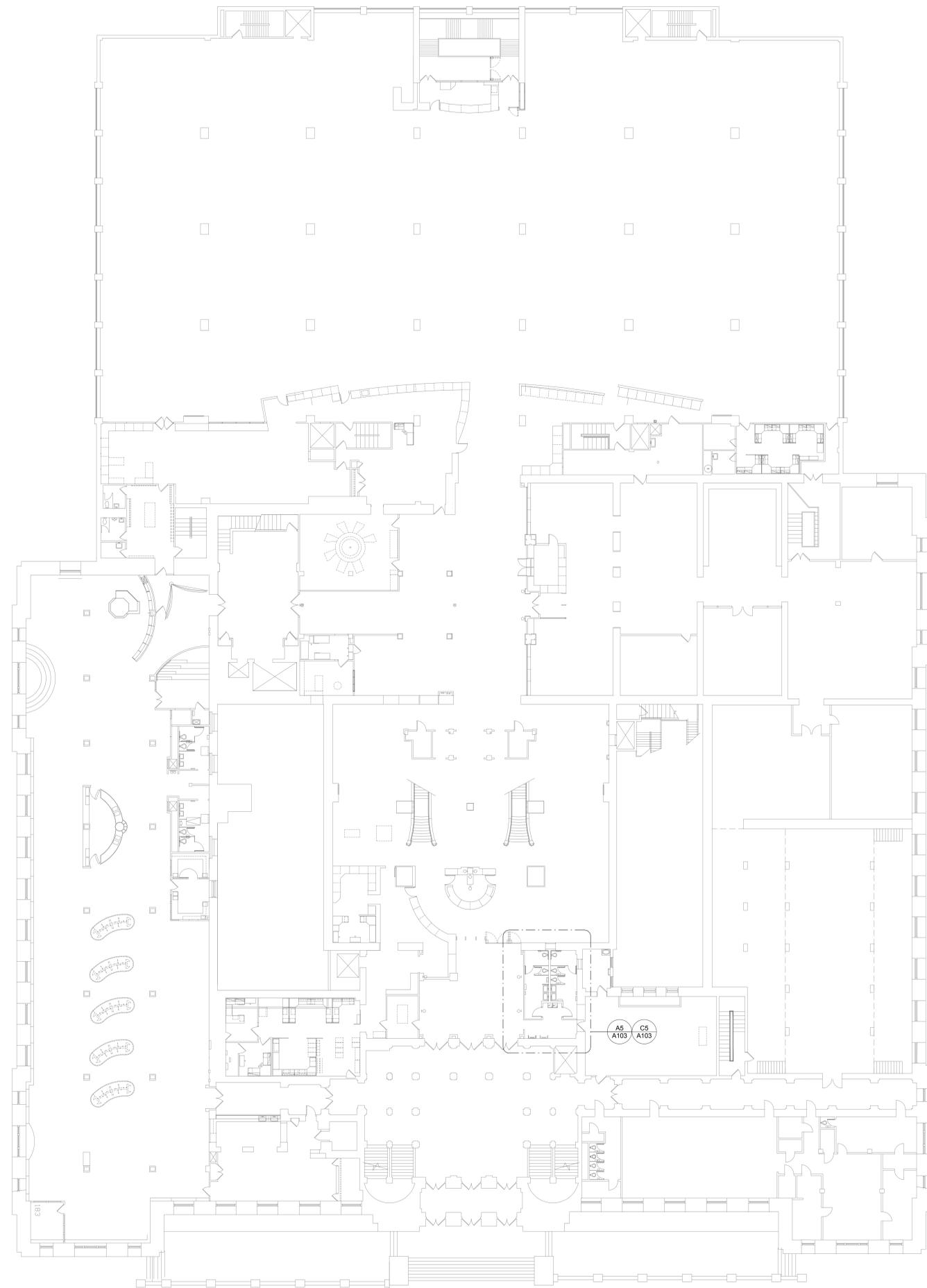
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A1 OVERALL FLOOR PLAN - CENTRAL LIBRARY
1/16" = 1'-0"

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GENERAL NOTES

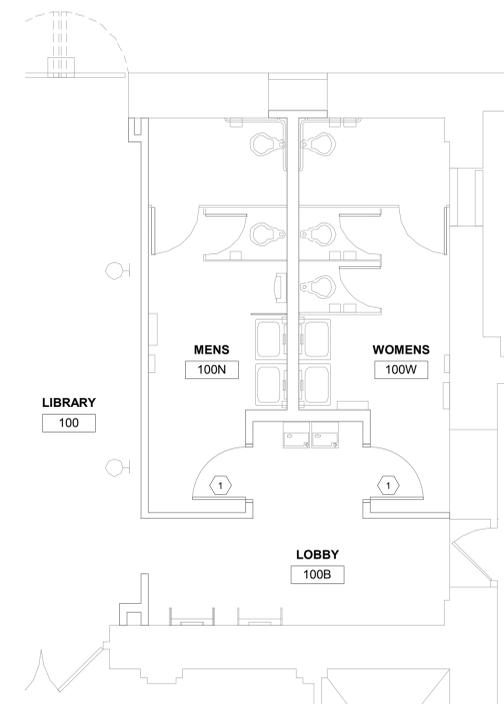
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DEMO FLOOR PLAN KEYNOTES

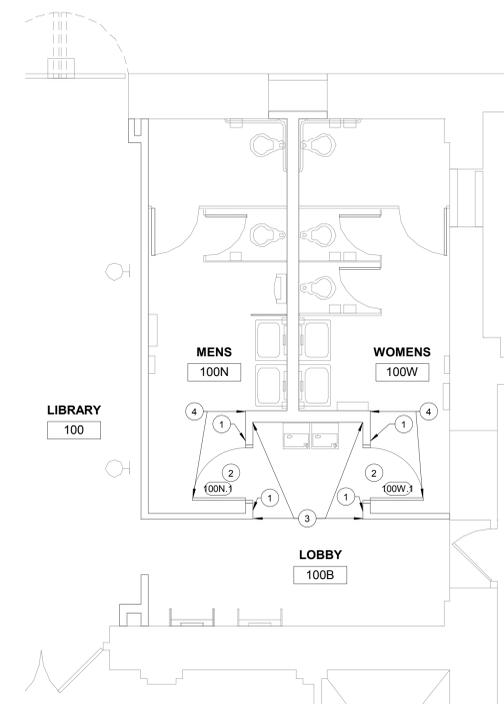
- REMOVE DOOR HARDWARE AS REQUIRED FOR TO PREPARE FOR NEW HARDWARE

FLOOR PLAN KEYNOTES

- ACCESSIBLE AUTOMATIC DOOR OPENER; REFER TO ELECTRICAL
- PROVIDE ASSOCIATED HARDWARE FOR AUTOMATIC OPENER
- PAINT EXISTING WALL FULL HEIGHT TO NEAREST CORNER IN BOTH DIRECTIONS IF WALL PATCHING IS NOT CONCEALED BY NEW CONSTRUCTION. MATCH EXISTING PAINT COLOR AND SHEEN. EXISTING WALL BASE TO REMAIN.
- EXISTING CERAMIC WALL TILE TO REMAIN; LIMIT DAMAGE TO AREA CONCEALED BY DOOR OPENER AND CONTROLS



C5 CENTRAL LIBRARY - LEVEL 1 - DEMOLITION FLOOR PLAN
1/4" = 1'-0"



A5 CENTRAL LIBRARY - LEVEL 1 - FLOOR PLAN
1/4" = 1'-0"



PROJECT INFORMATION
MILWAUKEE PUBLIC LIBRARY:
 MULTI-BUILDING ALTERATIONS
 ATKINSON STREET BRANCH
 CENTER STREET BRANCH
 CENTRAL LIBRARY

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
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KEY PLAN

SHEET INFORMATION

PROJECT MANAGER NE
 PROJECT NUMBER 201829-01
 DATE 06-03-2019

FLOOR PLANS - CENTRAL LIBRARY

A103

MATERIAL SCHEDULE									
CODE	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR	FINISH	SIZE	CONTACT	REMARKS	
C									
CPT-1	CARPET (MODULAR)	PATCRAFT	SCHOLASTIC II (MODULAR)	STUDENT LOANS 00701		24" X 24"			CENTER ST - STORAGE RMS
CPT-2	CARPET (MODULAR)	EXISTING	EXISTING	EXISTING		EXISTING			CENTER ST - SALVAGE EXISTING FOR USE AS REOD FOR PATCHING
CPT-3	CARPET (MODULAR)	EXISTING	EXISTING	EXISTING		EXISTING			ATKINSON - SALVAGE EXISTING FOR USE AS REOD FOR PATCHING
P									
POR-1	PORCELAIN TILE	CROSSVILLE	BASALT	AV294 MAFIC		12" X 24"			CENTER ST - TOILET RM FLOOR & WET WALLS; 1/3 RUNNING BOND PATTERN
POR-2	PORCELAIN TILE BASE	CROSSVILLE	BASALT	AV294 MAFIC		6" X 12"			CENTER ST - TOILET RMS
POR-3	PORCELAIN TILE	ATLAS CONCORDE	MARVEL GEMS	TERRAZZO BLACK	POLISHED	12" X 12"			CENTER ST - VESTIBULE FLOOR
POR-4	PORCELAIN TILE BASE	ATLAS CONCORDE	MARVEL GEMS	TERRAZZO BLACK	POLISHED	4" X 12"			CENTER ST - VESTIBULE WALL BASE
POR-5	PORCELAIN TILE	ROCA USA INC	COLOR COLLECTIONS	BISCUIT	MATTE	3" X 6"			CENTER ST - TOILET RMS NON-WET WALLS; RUNNING BOND PATTERN; INSTALL FLUSH WITH TILE BASE
PT-1	PAINT	SHERWIN WILLIAMS		SW 7005 PURE WHITE					ATKINSON & CENTER ST - ALL CEILINGS
PT-2	PAINT			MATCH EXISTING					MATCH EXISTING CENTER ST - MEETING ROOM
PT-3	PAINT			MATCH EXISTING					MATCH EXISTING CENTER ST - ENTRY AND STORAGE RM
PT-4	PAINT			MATCH EXISTING					MATCH EXISTING ATKINSON - ALL
R									
RB-1	RESILIENT BASE	NOVUS 9	VINYL COVE	MAHOGANY 16		4"			ATKINSON & CENTER ST
S									
ST-1	STAIN			MATCH EXISTING	MATCH EXISTING				MATCH EXISTING ATKINSON - DOOR STAIN COLOR
ST-2	STAIN			MATCH EXISTING	MATCH EXISTING				MATCH EXISTING CENTER ST - DOOR STAIN COLOR

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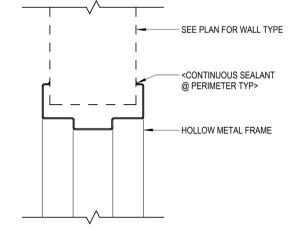
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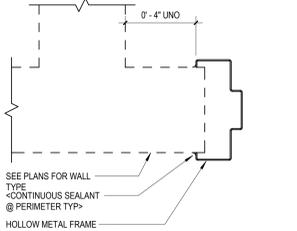
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DOOR AND FRAME SCHEDULE														
NUMBER	DOOR							FRAME				HDWE TAG	RATING (MIN)	REMARKS
	SIZE		TYPE	MAT	FIN	TYPE	MAT	FIN	HEAD	JAMB	SILL			
	LEAF QTY	WIDTH												
100N.1	EX	EXISTING	EXISTING	EX	EX	EX	EX	EX	EX			09		EXISTING DOOR AND FRAME TO REMAIN; PROVIDE NEW HARDWARE
100W.1	EX	EXISTING	EXISTING	EX	EX	EX	EX	EX	EX			09		EXISTING DOOR AND FRAME TO REMAIN; PROVIDE NEW HARDWARE
101.1	1	3'-0"	7'-0"	F	WD	ST-1	01	HM	PT	D5/A600	C5/A600	06	45 MIN	EXISTING DOOR AND FRAME TO REMAIN; PROVIDE NEW HARDWARE
108.1	EX	EXISTING	EXISTING	EX	EX	EX	EX	EX	EX			10		EXISTING DOOR AND FRAME TO REMAIN; PROVIDE NEW HARDWARE
109.1	EX	EXISTING	EXISTING	EX	EX	EX	EX	EX	EX			10		EXISTING DOOR AND FRAME TO REMAIN; PROVIDE NEW HARDWARE
110.1	EX	EXISTING	EXISTING	EX	EX	EX	EX	EX	EX			11		EXISTING DOOR AND FRAME TO REMAIN; PROVIDE NEW HARDWARE
111.1	1	3'-0"	7'-0"	F	WD	ST-2	01	HM	PT	D5/A600	C5/A600	08	(7 ALT)	
112.1	1	3'-0"	7'-0"	F	WD	ST-2	01	HM	PT	D5/A600	C5/A600	08	(7 ALT)	
114.1	EX	EXISTING	EXISTING	EX	EX	EX	EX	EX	EX			12		EXISTING DOOR AND FRAME TO REMAIN; PROVIDE NEW HARDWARE
115.1	1	3'-0"	7'-0"	F	WD	ST-2	01	HM	PT	D5/A600	C5/A600	04	(3 ALT)	
116.1	2	3'-0"	7'-0"	F	WD	ST-2	02	HM	PT	D5/A600	C5/A600	02	(1 ALT)	6'-0" PAIR OF DOORS
117.1	1	3'-0"	7'-0"	F	WD	ST-2	01	HM	PT	D5/A600	C5/A600	05	45 MIN	



D5 HM DOOR HEAD - GYP BD
3' x 1'-0"



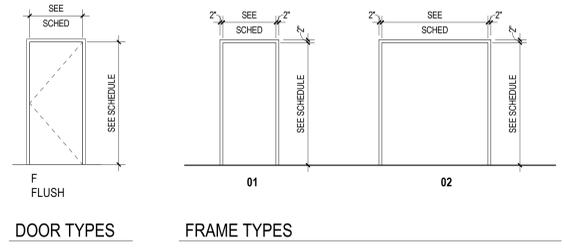
C5 HM DOOR JAMB - GYP BD
3' x 1'-0"

REMARKS

- DOOR STAIN TO MATCH EXISTING DOORS IN RESPECTIVE LIBRARIES
- FRAME PAINT COLOR TO MATCH ADJACENT WALL COLOR.

BID ALTERNATES

- AUTOMATIC OPENERS AT CENTER STREET TO BE BID AS AN ALTERNATE; REFER TO KEYNOTES 12 AND 13 ON SHEET A102



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PROJECT INFORMATION

MILWAUKEE PUBLIC LIBRARY:
MULTI-BUILDING ALTERATIONS

ATKINSON STREET BRANCH

CENTER STREET BRANCH

CENTRAL LIBRARY

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

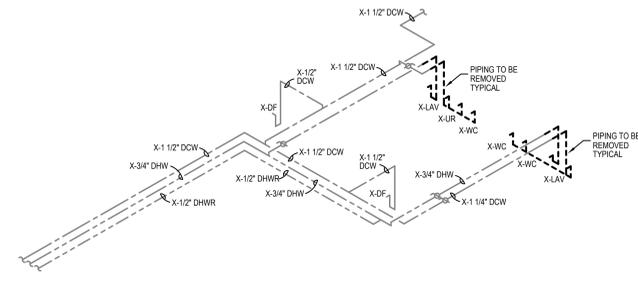
SHEET INFORMATION

PROJECT MANAGER	NE
PROJECT NUMBER	201829-01
DATE	06-03-2019

SCHEDULES AND DOOR DETAILS

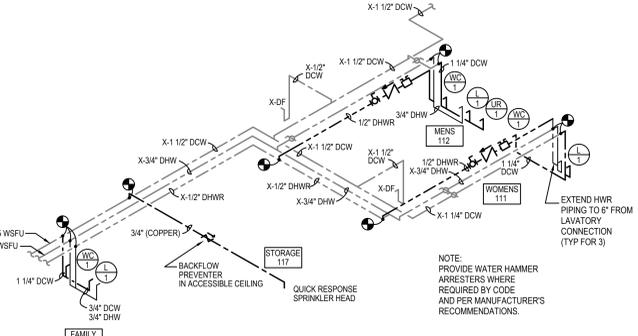
A600

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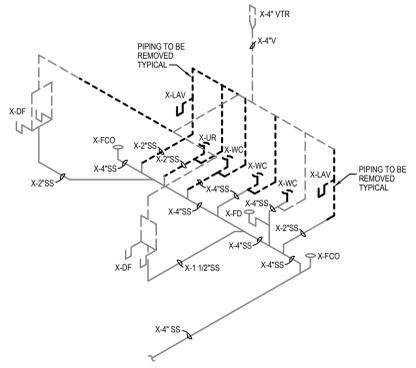
1 DOMESTIC WATER RISER DIAGRAM - DEMOLITION
N.T.S.

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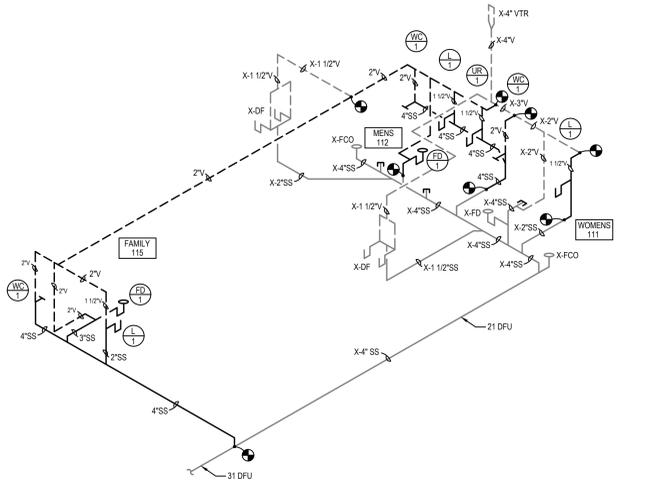
2 DOMESTIC WATER RISER DIAGRAM - NEW WORK
N.T.S.

C



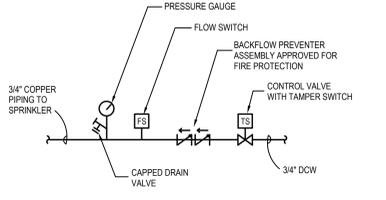
3 SANITARY / VENT RISER DIAGRAM - DEMOLITION
N.T.S.

B



4 SANITARY / VENT RISER DIAGRAM - NEW WORK
N.T.S.

A



5 DETAIL AT BACKFLOW PREVENTER
N.T.S.

ABBREVIATIONS		PLUMBING PIPING LEGEND	
AD	AREA DRAIN	[Symbol]	NEW PLUMBING EQUIPMENT
AF	ABOVE FINISHED FLOOR ACCESS PANEL	[Symbol]	EXISTING PLUMBING COMPONENT
AP	ACCESS PANEL	[Symbol]	DEMOLISHED PLUMBING COMPONENT
BOP	BOTTOM OF PIPE	[Symbol]	PLUMBING EQUIPMENT SERVICE AREA
CA	COMBUSTION AIR CLEANOUT	[Symbol]	KEY NOTE
CD	CLEANOUT	[Symbol]	NEW DOMESTIC HOT WATER
DN	DOWN	[Symbol]	EXISTING DOMESTIC COLD WATER
ET	EXPANSION TANK	[Symbol]	NEW DOMESTIC HOT WATER
EWC	ELECTRIC WATER COOLER	[Symbol]	EXISTING DOMESTIC HOT WATER
FCO	FLOOR CLEANOUT	[Symbol]	NEW DOMESTIC HOT WATER RETURN
FD	FLOOR DRAIN	[Symbol]	EXISTING DOMESTIC HOT WATER RETURN
GI	GREASE INTERCEPTOR	[Symbol]	NEW DOMESTIC TEMPERED WATER
HB	HOSE BIBB	[Symbol]	EXISTING DOMESTIC TEMPERED WATER
HWRP	HOT WATER RECIRCULATION PUMP	[Symbol]	NEW FIRE PROTECTION - CHEMICAL PIPE
IWH	INSTANTANEOUS WATER HEATER	[Symbol]	NEW FIRE PROTECTION - DRY PIPE
L	LAVATORY	[Symbol]	NEW FIRE PROTECTION - WET PIPE
MB	MOP BASIN	[Symbol]	EXISTING FIRE PROTECTION
NC	NORMALLY CLOSED	[Symbol]	NEW IRRIGATION
NO	NORMALLY OPEN	[Symbol]	EXISTING IRRIGATION
OD	OVERFLOW DRAIN	[Symbol]	NEW SANITARY SEWER
RD	ROOF DRAIN	[Symbol]	EXISTING SANITARY SEWER
S	SINK	[Symbol]	NEW SANITARY VENT
SH	SHOWER	[Symbol]	EXISTING SANITARY VENT
SP	SUMP PUMP	[Symbol]	NEW STORM OVERFLOW
SS	SERVICE SINK	[Symbol]	EXISTING STORM OVERFLOW
ST	STORAGE TANK	[Symbol]	NEW STORM SEWER
STP	SOLAR THERMAL PANEL	[Symbol]	EXISTING STORM SEWER
UR	URINAL	[Symbol]	DEMOLISHED PIPING (ALL SYSTEMS)
VFD	VARIABLE FREQUENCY DRIVE	[Symbol]	PLUMBING EQUIPMENT TAG ELECTRICALLY POWERED
WC	WATER CLOSET	[Symbol]	PLUMBING EQUIPMENT TAG NOT ELECTRICALLY POWERED
WCQ	WALL CLEANOUT	[Symbol]	
WH	WATER HEATER	[Symbol]	
WHWP	WATER-TO-WATER HEAT PUMP	[Symbol]	
X	EXISTING	[Symbol]	
YCO	YARD CLEANOUT	[Symbol]	

GENERAL NOTES

- DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED OFFSETS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES.
- ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL, CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT.
- REMOVAL AND REINSTALLATION OF EXISTING CEILING IS REQUIRED. REPLACE ALL DAMAGED CEILING WITH NEW, EQUAL TO EXISTING.

PLUMBING SHEET INDEX

NUMBER	SHEET NAME
P001	PLUMBING SCHEDULES, NOTES, LEGENDS AND ABBREVIATIONS
P101	PLUMBING FLOOR PLAN - ATKINSON STREET BRANCH
P102	PLUMBING FLOOR PLAN - CENTER STREET BRANCH

PLUMBING FIXTURE SCHEDULE

MARK	MANUFACTURER	MODEL	DESCRIPTION	WSFU			DFU VALUE
				HW	CW	TOTAL	
FD-1	WATTS	FD-104A6	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY & SECONDARY WEEPHOLES, ADJUSTABLE ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO HUB (STANDARD) OUTLET.	-	-	-	4.0
L-1	BRADLEY	OMNIDECK 3000 SERIES LD3010	LAVATORY: SINGLE BOWL, SOLID SURFACE ASSEMBLY, OVERALL UNIT SIZE 30 x 22. SEE SPECIFICATIONS FOR DETAILS. FAUCET: SLOAN ET-880, SENSOR OPERATED DIRECT WIRE (24V AC TRANSFORMER REQUIRED EL-244-40), DRAIN: KOHLER K-7126 BRASS GRID DRAIN AND 1 1/4" TAILPIECE, KEENEY 530PC80TR P-TRAP, STOP/SUPPLIES: MCGUIRE LPH-2166 LK ANGLE VALVE WITH LOOSE KEY HANDLE, 1/2" FEMALE INLET, 1/2" OD X 1/2" RISER CARRIER: ZURN Z126 LAVATORY SUPPORT SYSTEM WITH DURA-COATED RECTANGULAR STEEL UPRIGHTS WITH WELDED FEET, CAST IRON ADJUSTABLE HEADERS, ACID RESISTANT EPOXY COATED CAST IRON ARMS, ALIGNMENT TRUSS, AND MOUNTING FASTENERS.	0.5	0.5	1.0	1.0
UR-1	KOHLER	K4891-ET BARDON	WASHOUT WALLMOUNT 0.125GPF URINAL WITH 3/4" TOP SPUD. FLUSH VALVE: SLOAN OPTIMA 8186-0.5, 0.50 GPF BATTERY OPERATED INFRARED SENSOR, CHROME PLATED VALVE. CARRIER: WATTS CA-311 - COMMERCIAL GRADE, ADJUSTED FOR STANDARD HEIGHT OR ADA HEIGHT AS REQUIRED. SEE ARCHITECTURAL PLANS FOR ADA LOCATIONS.	-	4.0	4.0	2.0
WC-1	KOHLER	K4325 KINGSTON	VITREOUS CHINA, WALLMOUNT, SIPHON JET 1.28 GPF WATER CLOSET WITH ELONGATED BOWL, 1 1/2" TOP SPUD. FLUSH VALVE: SLOAN UPPERCUT WES-115 MANUAL, DUAL FLASH. SEAT: BEMIS 190555CT HEAVY DUTY, PLASTIC OPEN FRONT WITH STAINLESS STEEL SELF-SUSTAINING CHECK HINGE. CARRIER: WATTS ADJUSTED FOR STANDARD HEIGHT OR ADA HEIGHT AS REQUIRED. SEE ARCHITECT PLANS FOR ADA LOCATIONS.	-	6.5	6.5	6.0

NOTES: CONTRACTOR IS RESPONSIBLE FOR COORDINATING NECESSARY ELECTRICAL PROVISION WITH DIVISION 26 CONTRACTOR. DIVISION 22 CONTRACTOR IS RESPONSIBLE FOR ALL LOW VOLTAGE (24V) WIRING FOR ALL PLUMBING FIXTURES AND EQUIPMENT. PROVIDE ALL NECESSARY TRANSFORMERS TO ACCOMMODATE POWER SUPPLIES INDICATED ON ELECTRICAL DRAWINGS. PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY POWER SUPPLY PROVISIONS BEYOND WHAT IS INDICATED ON THE ELECTRICAL DRAWINGS.

WATER CALCULATION WORKSHEET

Information Needed for Water Service Sizing

- 39 Demand of addition in gallons per minute.
- 79 Low pressure at main before meter.
- 8 Difference in elevation from main to meter (or external pressure tank to building control valve).
- 1.5 Size of water meter (if applicable).
- 7.5 Developed length from main to meter (or external pressure tank to building control valve).

First Find Available Pressure After the Water Meter
(or at building control valve)

- 1.5 Find pressure loss due to friction in 2 inch diameter water service.
- 1.0 Find pressure loss due to elevation, main to meter (or external pressure tank to building control valve). Multiply the difference in elevation by .434 psi/ft.
- 3 Find pressure loss due to meter. (from manufacturer or AWWA)
- 73.5 Subtract the loss due to friction (Step 6), loss due to elevation (Step 7), and loss due to meter (Step 8) from the low main pressure (or low pressure at external pressure tank) (Step 2). This calculation is the available pressure after the water meter (or at the building control valve). This answer is entered in Line B, below.

Information Needed for Water Distribution Sizing
Using the following formula, find the pressure available for uniform loss (psi/100' of pipe)

$$A = [B - (C + D + E)] / F \times 100$$

- 13.3 Pressure available for uniform loss (psi/100' of pipe).
- 73.5 Available pressure after water meter (at the building control valve or low pressure at internal pressure tank). (See step 9 above)
- 3.5 Pressure needed at controlling fixture.
- 8.7 Difference in elevation between water meter (building control valve or internal pressure tank) and controlling fixture in feet 20 x .434 psi/ft.
- 0 Pressure loss due to water softeners, water treatment devices, instantaneous water heaters and backflow preventors which serve the controlling fixture. Conventional water heaters usually do not have a pressure loss.
- 22.5 Developed length from water meter (building control valve or internal pressure tank) to controlling fixture in feet 150 x 1.5



PROJECT INFORMATION

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MULTI-BUILDING ALTERATIONS

ATKINSON STREET BRANCH

CENTER STREET BRANCH

CENTRAL LIBRARY

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
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KEY PLAN

SHEET INFORMATION

PROJECT MANAGER

PROJECT NUMBER 201829-01

DATE 06.03.2019

PLUMBING SCHEDULES, NOTES, LEGENDS, ABBREVIATIONS & RISER DIAGRAMS

P001



1

2

3

4

5

6

7

KEY NOTES

P1	PROVIDE BACKFLOW PREVENTER APPROVED FOR FIRE PROTECTION USE. SEE DETAIL SP001
P2	PROVIDE A STANDARD COVERAGE QUICK RESPONSE SPRINKLER HEAD FROM VIKING CORPORATION.
P3	CONNECT TO 1/2" DCW PIPING SERVING EXISTING MOP BASIN. FIELD VERIFY EXACT POINT OF CONNECTION. CUT / PATCH CEILING OR WALL AS NECESSARY. MATCH EXISTING FINISHES.



PROJECT INFORMATION

MILWAUKEE PUBLIC LIBRARY: MULTI-BUILDING ALTERATIONS

ATKINSON STREET BRANCH

CENTER STREET BRANCH

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ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
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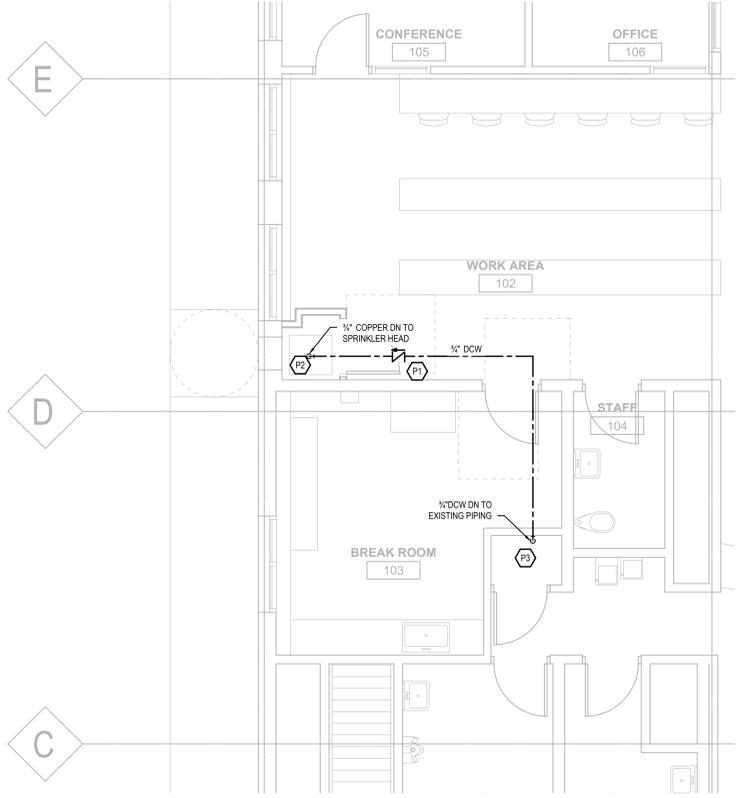
KEY PLAN

SHEET INFORMATION

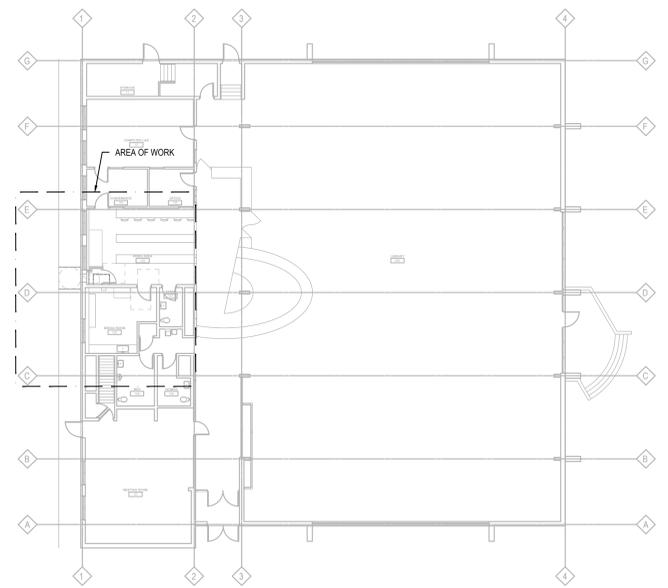
PROJECT MANAGER	
PROJECT NUMBER	201829-01
DATE	06.03.2019

PLUMBING FLOOR PLAN - ATKINSON STREET BRANCH

P101



2 ATKINSON STREET BRANCH - LEVEL 1 - PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"



1 OVERALL FLOOR PLAN - ATKINSON STREET BRANCH
SCALE: 1/16" = 1'-0"

1

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7



THIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS

1

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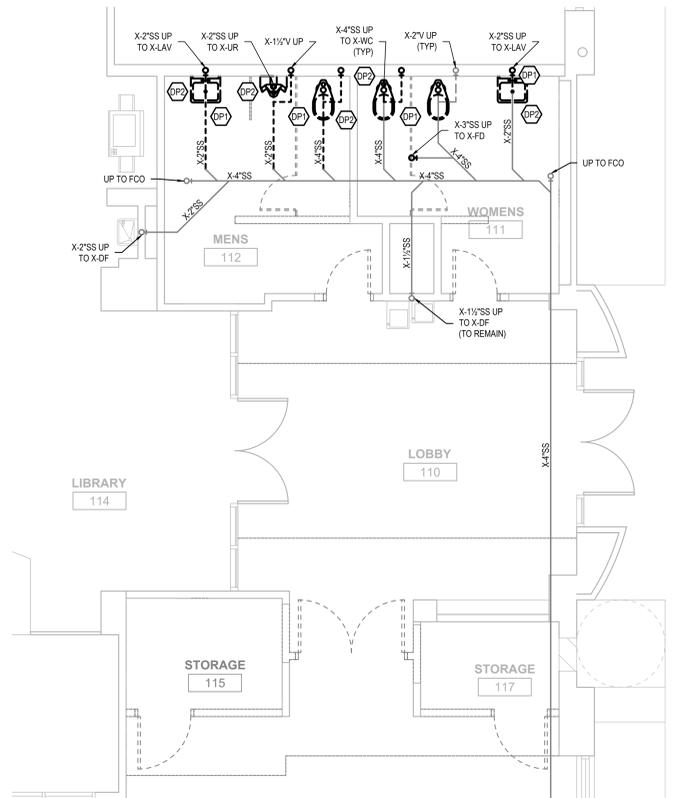
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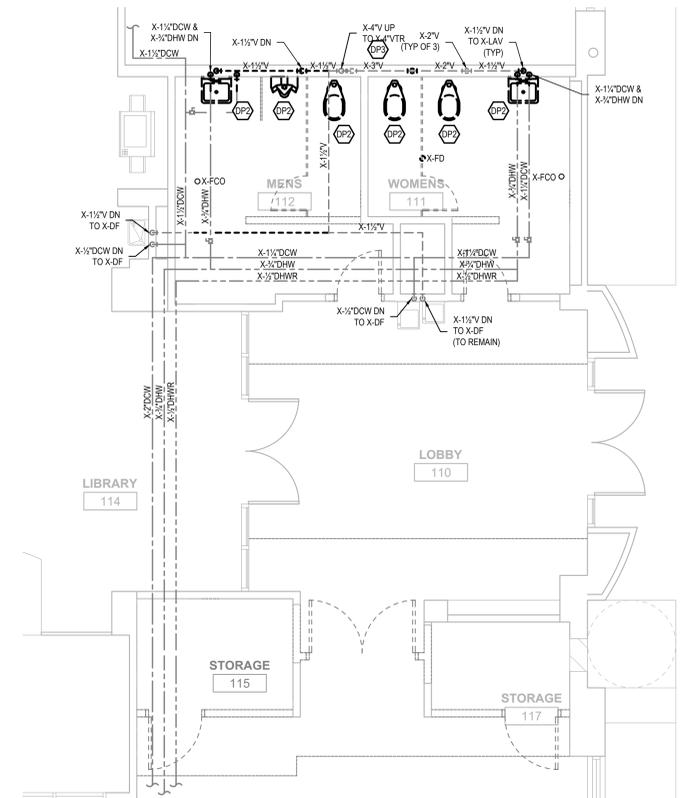
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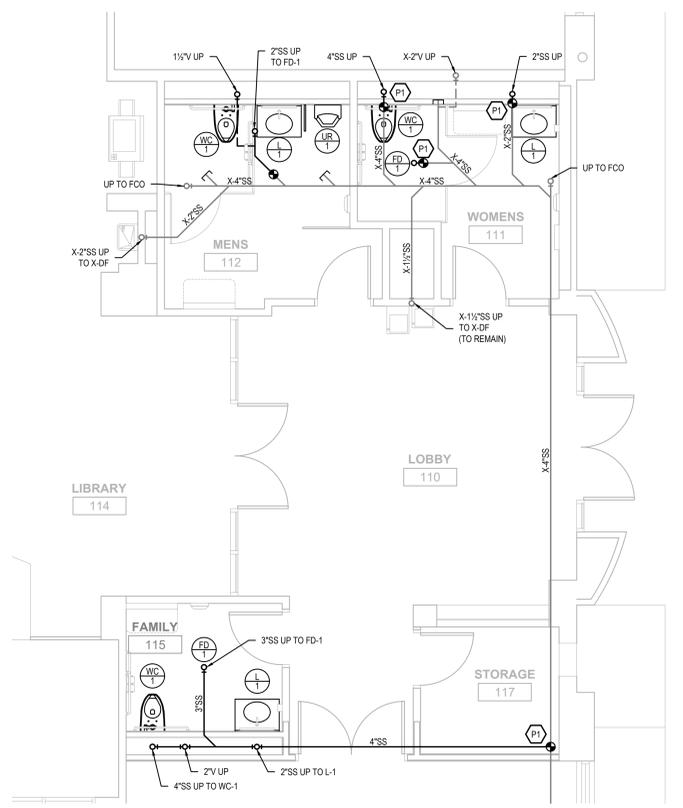
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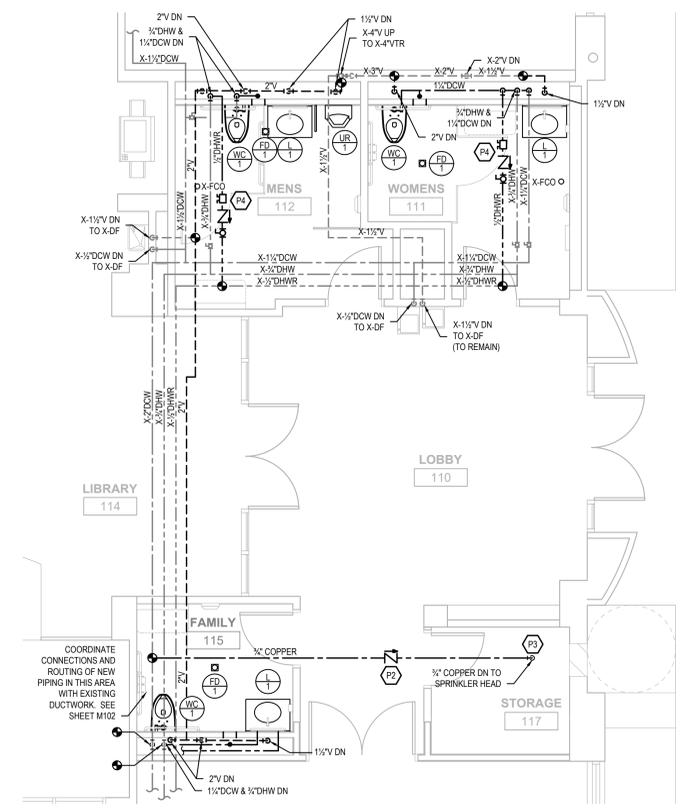
3 CENTER STREET BRANCH - LEVEL 1 -
UNDERSLAB PLUMBING DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"



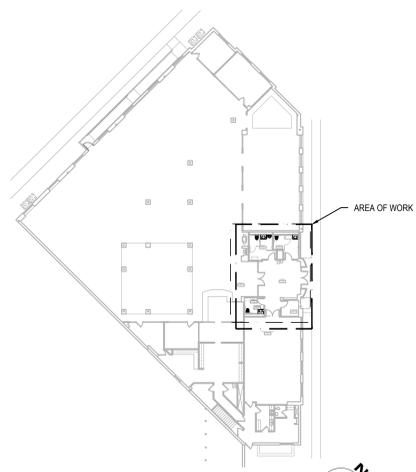
5 CENTER STREET BRANCH - LEVEL 1 -
ABOVE-SLAB PLUMBING DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 CENTER STREET BRANCH - LEVEL 1 -
UNDERSLAB PLUMBING NEW FLOOR PLAN
SCALE: 1/4" = 1'-0"



4 CENTER STREET BRANCH - LEVEL 1 -
ABOVE-SLAB PLUMBING NEW FLOOR PLAN
SCALE: 1/4" = 1'-0"



1 KEY PLAN
N.T.S.

DEMOLITION NOTES	
DP1	REMOVE EXISTING SANITARY AND VENT PIPING TO ACCOMMODATE NEW WORK. FIELD VERIFY LOCATION OF ALL EXISTING PIPING PRIOR TO DEMOLITION. CUT EXISTING CONCRETE SLAB AS REQUIRED FOR ALL WORK AND REPAIR.
DP2	REMOVE EXISTING RESTROOM FIXTURES AND FLOOR DRAIN.
DP3	REMOVE ALL WATER PIPING SERVING FIXTURES IN EXISTING WALL.

SHEET NOTES	
1.	PROVIDE LOCKABLE 12x12 ACCESS PANELS IN DRYWALL CEILINGS AND WALLS TO ACCESS ANY VALVES, AIR VENTS, EQUIPMENT, ETC. COORDINATE EXACT LOCATIONS WITH LIGHTING AND FIRE ALARM DEVICES.

KEY NOTES	
P1	FIELD VERIFY EXACT CONNECTION TO EXISTING PIPING.
P2	PROVIDE BACKFLOW PREVENTER APPROVED FOR FIRE PROTECTION USE. SEE DETAIL 5-P001.
P3	PROVIDE A STANDARD COVERAGE QUICK RESPONSE SPRINKLER HEAD FROM VIKING CORPORATION.
P4	SET CIRCUIT SETTER TO 0.5 GPM.



PROJECT INFORMATION
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 ATKINSON STREET BRANCH
 CENTER STREET BRANCH
 CENTRAL LIBRARY

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	
PROJECT NUMBER	201829-01
DATE	06.03.2019

PLUMBING FLOOR PLANS - CENTER STREET BRANCH

P102

VENTILATION SCHEDULE

ROOM TAG	ROOM NAME	OCCUPANCY CLASSIFICATION	ROOM AREA (SF)	VENTILATION REQUIREMENTS			ACTUAL SPACE VENTILATION			SERVED BY		REMARKS
				NUMBER OF OCC. / FIXTURE	EXHAUST RATE REQUIREMENTS	EXHAUST (CFM / UNIT)	MIN. SUPPLY (CFM)	O.A. (CFM)	EXHAUST (CFM)	SUPPLY	EXHAUST	
	FAMILY RESTROOM	TOILET	66	1	75	NA	NA	75	NA	NA	EF-1	
	MENS TOILET	TOILET	127	2	150	NA	NA	150	NA	NA	EF-1	
	WOMENS TOILET	TOILET	103	1	75	NA	NA	75	NA	NA	EF-1	
			307	4	300	0	0	300				

1. PROVIDE TIME CLOCK AND SET FOR TYPICAL BUSINESS HOURS

ELECTRIC CEILING HEATER (ECH)

MARK	MANUFACTURER	MODEL	CONFIGURATION	FAN		HEATING		UNIT ELECTRICAL		PHYSICAL DATA				REMARKS	
				SUPPLY AIRFLOW (CFM)	RPM	KW	RISE (DEG F)	MCA	MOP	VOLTS / PH	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)		
ECH-1	QMARK	EFF1500	SURFACE MOUNT	150	1,400	2	42	12.5	20	120	10	15.375	3.75	18.75	ALL

1. UNIT SHALL INCLUDE DISCONNECT
2. PROVIDE SURFACE MOUNT NORTHERN WHITE FRAME
3. PROVIDE WITH INTEGRAL THERMOSTAT AND SET TO 68 DEGREES

CONVECTORS

MARK	MANUFACTURER	MODEL	HEATING CAPACITY (BTUH)	WATER COIL				REMARKS
				GPM	MAX PRESS. DROP	SBT (DEG F)	LWT (DEG F)	
CONV-1	STERLING	FW-A 4-28-24	4,255	0.4	5.0	180	160	ALL
CONV-2	STERLING	FW-A 4-28-24	4,255	0.4	5.0	180	160	ALL
CONV-3	STERLING	WA 4-28-20	4,465	0.4	5.0	180	160	ALL

1. PROVIDE PIPING PACKAGE INCLUDING ISOLATION VALVES, BALANCING VALVE, UNION CONNECTIONS AND TWO-WAY MODULATING CONTROL VALVE.
2. PROVIDE VANDAL RESISTANT ACCESS DOOR
3. PROVIDE TAMPER RESISTANT DAMPER

DIFFUSERS AND GRILLES

MARK	MANUFACTURER	MODEL	TYPE	SERVICE	MATERIAL	CONFIGURATION							FINISH	REMARKS	
						FACE SIZE (IN)	PATTERN	SLOTS QTY	WIDTH (IN)	THICKNESS (IN)	SPACING (IN)	ANGLE			MOUNTING / FRAME
E-1	TITUS	30FS	LOUVERED GRILLE	EXHAUST	ALUMINUM	8x8	-	-	-	3/4	35°	EXTERNAL SCREW	NO	WHITE	

FANS

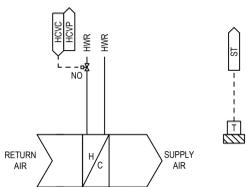
TYPE MARK	MARK	MANUFACTURER	MODEL	TYPE	SERVICE	LOCATION	DRIVE	AIRFLOW (CFM)	ESP (IN WC)	RPM	MOTOR		UNIT ELECTRICAL		WEIGHT (LBS)	REMARKS	
											HP	BHP	VOLTS / PH	STARTER			DISCONNECT
EF	1	GREENHECK	G-68B-VG	DOWNBLAST	RESTROOMS	EXISTING ROOF	DIRECT	300	0.50	1188	1/5	NA	120/1Ø	MAGNETIC	NON-FUSED	47	ALL

1. PROVIDE WITH STARTER/DISCONNECT
2. PROVIDE WITH CURB ADAPTOR
3. MOTORIZED BACKRAFT DAMPER
4. PROVIDE WITH TIMECLOCK

SYSTEM POINT LIST: CONVECTORS

POINT DESCRIPTION	ABBREV	HARDWARE POINT				REMARKS
		VIRTUAL POINT	HARDWARE INTERLOCK	ALARM	MONITOR TRENDS	
FOR EACH CONVECTOR						
Space Temperature	ST	AI			5 min	
Hot Water Coil Valve Control	HVCV	AO			5 min	
Hot Water Coil Valve Position	HCVF	AI			5 min	
Space Occupied Heating Setpoint						
Space Unoccupied Heating Setpoint					90 deg	

CONTROL SEQUENCE:
 A. CONVECTORS:
 1. ON CALL FOR HEATING FROM SPACE SENSOR:
 a. MODULATE HOT WATER CONTROL VALVE TO MAINTAIN SPACE SET POINT TEMPERATURE.

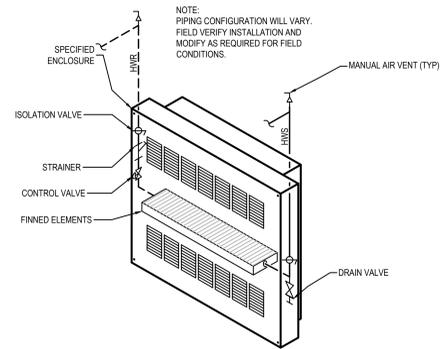


3 CONTROL DIAGRAM CONVECTORS
N.T.S.

ABBREVIATIONS		HVAC LEGEND		GENERAL NOTES	
AFF	ABOVE FINISHED FLOOR ACCESS PANEL	[Symbol]	NEW HVAC EQUIPMENT	1. DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW ALL REQUIRED OFFSETS FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL INSTALL MATERIAL AND EQUIPMENT TO CONFORM TO THE STRUCTURE, EQUIPMENT CONNECTIONS AND SHALL MAINTAIN APPROPRIATE CLEARANCES. 2. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, LOCAL CODES, FEDERAL AND STATE REGULATIONS, AND ALL REQUIREMENTS OF THE LOCAL AUTHORITIES HAVING JURISDICTION. 3. CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION. 4. THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE FULL EXTENT OF WORK AND PROJECT CONDITIONS. FAILURE TO DO SO WILL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. 5. COORDINATE EXACT LOCATION OF CEILING DIFFUSERS AND GRILLES WITH REFLECTED CEILING PLAN. 6. ALL BRANCH DUCTS SHALL MATCH DIFFUSER NECK SIZES UNLESS OTHERWISE NOTED. 7. ALL CONTROL WIRING SHALL BE RUN IN CONDUIT. 8. KEYNOTES PERTAIN ONLY TO THE DRAWING THEY ARE LOCATED ON. 9. DUCT SIZES ARE CLEAR INSIDE DIMENSIONS. 10. CONNECT NEW CONVECTORS AND EXHAUST FAN TO EXISTING JOHNSON CONTROLS DDC SYSTEM FOR CENTER STREET LOCATION. FIELD VERIFY MAIN CONTROL PANEL FOR CONNECTION.	
AP	ACCESS PANEL	[Symbol]	NEW DUCTWORK		
BOD	BOTTOM OF DUCT	[Symbol]	EXISTING MECHANICAL COMPONENT		
BOP	BOTTOM OF PIPE	[Symbol]	DEMOLISHED MECHANICAL COMPONENT		
CA	COMBUSTION AIR	[Symbol]	MECHANICAL EQUIPMENT SERVICE AREA		
COND	CONDENSATE DRAIN	[Symbol]	KEY NOTE		
CHWS	CHILLED WATER RETURN	[Symbol]	SUPPLY AIR DUCT UP		
OR	LOW PRESSURE STEAM CONDENSATE	[Symbol]	SUPPLY AIR DUCT DOWN		
RETURN	CONDENSER WATER RETURN	[Symbol]	RETURN AIR DUCT UP		
CWR	CONDENSER WATER SUPPLY	[Symbol]	RETURN AIR DUCT DOWN		
CWS	CONDENSER WATER SUPPLY	[Symbol]	OUTSIDE AIR DUCT UP		
DE	DISHWASHER EXHAUST	[Symbol]	OUTSIDE AIR DUCT DOWN		
DN	DOWN	[Symbol]	EXHAUST AIR DUCT UP		
EA	EXHAUST AIR	[Symbol]	EXHAUST AIR DUCT DOWN		
GSHXR	GROUND SOURCE HEAT EXCHANGER	[Symbol]	ELBOW WITH TURNING VANES		
RETURN	GROUND SOURCE HEAT EXCHANGER	[Symbol]	EXHAUST AIR DUCT DOWN		
GSHXS	GROUND SOURCE HEAT EXCHANGER	[Symbol]	EXHAUST AIR DUCT DOWN		
SUPPLY	SUPPLY	[Symbol]	DOOR UNDER CUT		
HPS	HIGH PRESSURE STEAM	[Symbol]	TRANSFER/DOOR GRILLE		
HWR	HOT WATER RETURN	[Symbol]	NEW SUPPLY DIFFUSER		
HWS	HOT WATER SUPPLY	[Symbol]	NEW RETURN/TRANSFER GRILLE		
KE	KITCHEN EXHAUST	[Symbol]	NEW EXHAUST GRILLE		
LPS	LOW PRESSURE STEAM	[Symbol]	THERMOSTAT		
MPS	MEDIUM PRESSURE STEAM	[Symbol]	THERMOSTAT /CO2 SENSOR		
NC	NORMALLY CLOSED	[Symbol]	THERMOSTAT /CO2 SENSOR		
NG	NATURAL GAS	[Symbol]	TEMPERATURE /CO2 SENSOR		
NO	NORMALLY OPEN	[Symbol]	TEMPERATURE /CO2 SENSOR		
OA	OUTSIDE AIR	[Symbol]	POINT OF CONNECTION		
RA	RETURN AIR	[Symbol]	DUCT OFFSET		
RCOVR	ENERGY RECOVERY RETURN	[Symbol]	HVAC EQUIPMENT TAG ELECTRICALLY POWERED		
ROOVS	ENERGY RECOVERY SUPPLY	[Symbol]	HVAC EQUIPMENT TAG NOT ELECTRICALLY POWERED		
REL	RELIEF AIR	[Symbol]	DIFFUSER/GRILLE TAG		
RL	REFRIGERATION LIQUID	[Symbol]			
RS	REFRIGERATION SUCTION	[Symbol]			
SA	SUPPLY AIR	[Symbol]			
SOLR	SOLAR THERMAL RETURN	[Symbol]			
SOLR	SOLAR THERMAL SUPPLY	[Symbol]			
TA	TRANSFER AIR	[Symbol]			
VFD	VARIABLE FREQUENCY DRIVE	[Symbol]			
X	EXISTING	[Symbol]			

MECHANICAL SHEET INDEX

NUMBER	SHEET NAME
M001	MECHANICAL SCHEDULES, NOTES, LEGENDS, ABBREVIATIONS AND DETAILS
M101	MECHANICAL FLOOR PLANS - ATKINSON STREET BRANCH
M102	MECHANICAL FLOOR PLANS - CENTER STREET BRANCH

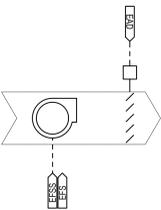


1 CONVECTOR HOT WATER PIPING DETAIL
N.T.S.

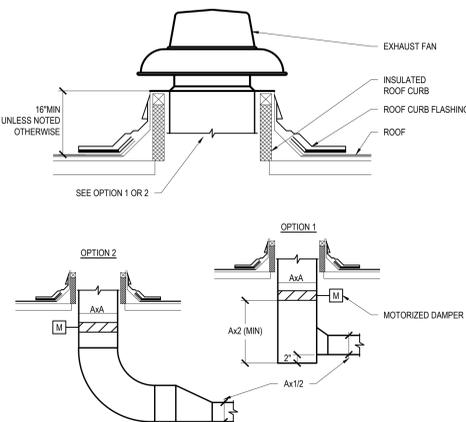
SYSTEM POINT LIST: EXHAUST FANS

POINT DESCRIPTION	ABBREV	HARDWARE POINT				REMARKS
		VIRTUAL POINT	HARDWARE INTERLOCK	ALARM	MONITOR TRENDS	
FOR ALL EXHAUST FANS:						
Exhaust Fan Start/Stop	EFSS	BO			COV	
Exhaust Fan Status	EFS	BI			5 Min	
Exhaust Fan Damper	EAD	AO			5 Min	

CONTROL SEQUENCE:
 A. EF-1:
 1. DURING OCCUPIED MODE:
 a. FAN SHALL BE 'ON' AND EXHAUST AIR DAMPER SHALL BE OPEN.
 1. DURING UNOCCUPIED MODE:
 a. FAN SHALL BE 'OFF' AND EXHAUST AIR DAMPER SHALL BE CLOSED.



4 CONTROL DIAGRAM - EXHAUST FAN
N.T.S.



2 ROOF MOUNTED EXHAUST FAN
N.T.S.



THIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS



PROJECT INFORMATION
MILWAUKEE PUBLIC LIBRARY: MULTI-BUILDING ALTERATIONS

ATKINSON STREET BRANCH
 CENTER STREET BRANCH
 CENTRAL LIBRARY

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION
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KEY PLAN

SHEET INFORMATION

PROJECT MANAGER
 PROJECT NUMBER 201829-01
 DATE 06.03.2019

MECHANICAL SCHEDULES, NOTES, LEGENDS, ABBREVIATIONS & DETAILS

M001

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DEMOLITION NOTES	
DM1	REMOVE SECTION OF EXISTING SUPPLY PLENUM BOX AND GRILLE. CAP OFF END SECTION.



PROJECT INFORMATION
MILWAUKEE PUBLIC LIBRARY:
 MULTI-BUILDING ALTERATIONS

ATKINSON STREET BRANCH
 CENTER STREET BRANCH
 CENTRAL LIBRARY

ISSUANCE AND REVISIONS

#	DATE	DESCRIPTION

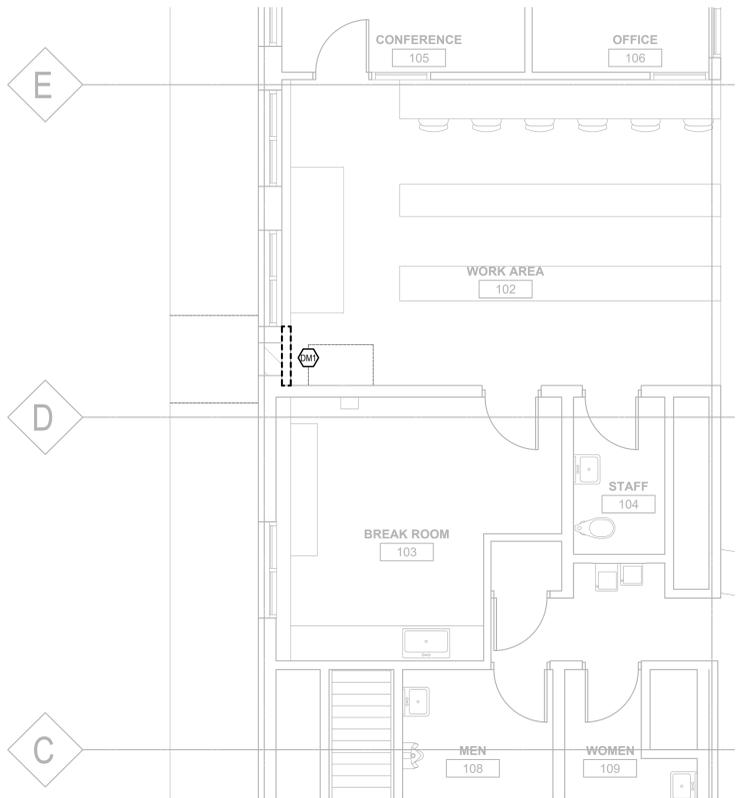
KEY PLAN

SHEET INFORMATION

PROJECT MANAGER	
PROJECT NUMBER	201829-01
DATE	06.03.2019

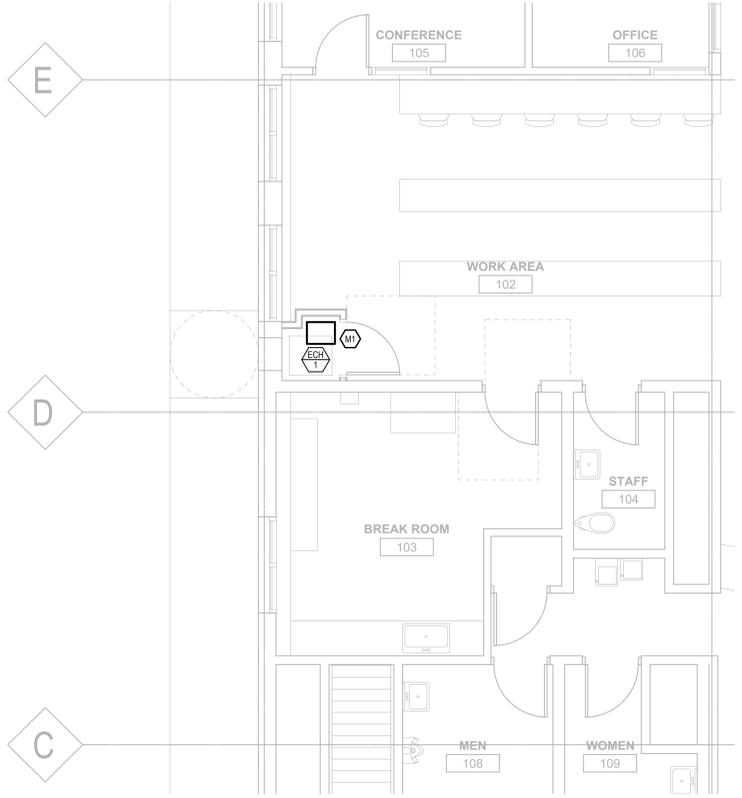
MECHANICAL FLOOR PLANS - ATKINSON STREET BRANCH

M101

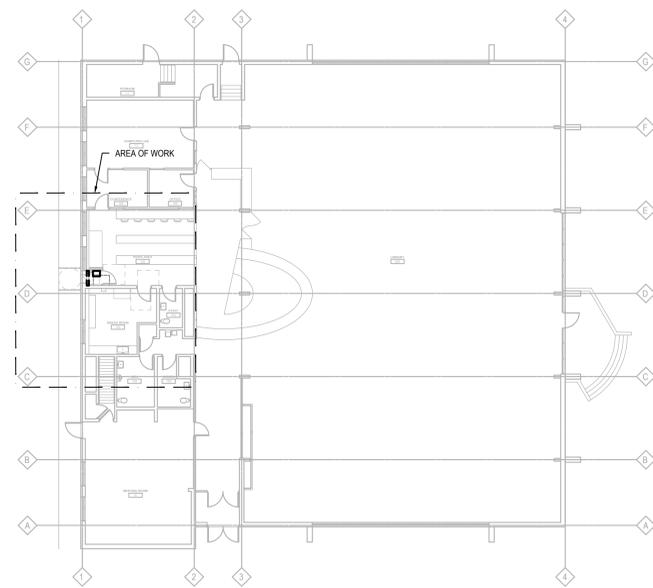


3 ATKINSON STREET BRANCH - LEVEL 1 - MECHANICAL DEMOLITION FLOOR PLAN
 SCALE: 1/4" = 1'-0"

KEY NOTES	
M1	COORDINATE EXACT LOCATION WITH NEW LIGHT AND SPRINKLER HEAD.



2 ATKINSON STREET BRANCH - LEVEL 1 - MECHANICAL NEW FLOOR PLAN
 SCALE: 1/4" = 1'-0"



1 ATKINSON STREET BRANCH - OVERALL FLOOR PLAN
 SCALE: 1/16" = 1'-0"

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PROJECT INFORMATION

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MECHANICAL FLOOR PLANS - CENTER STREET BRANCH

M102

DEMOLITION NOTES

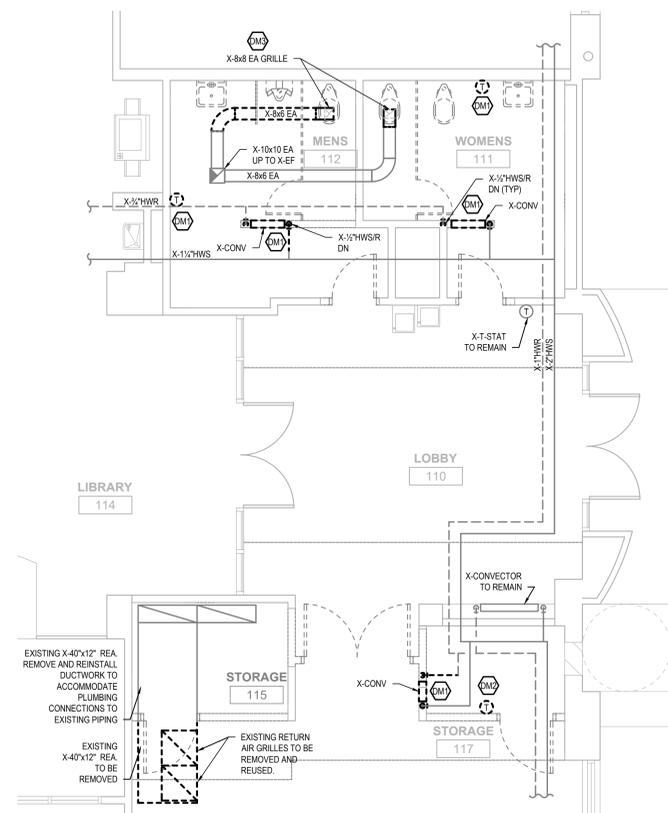
DM1	REMOVE EXISTING CONVECTORS AND CONTROLS. KEEP EXISTING PIPING IN THE CEILING TO ACCOMMODATE NEW CONVECTORS.
DM2	REMOVE EXISTING THERMOSTAT.
DM3	REMOVE EXISTING EXHAUST GRILLES AND DUCTWORK.

SHEET NOTES

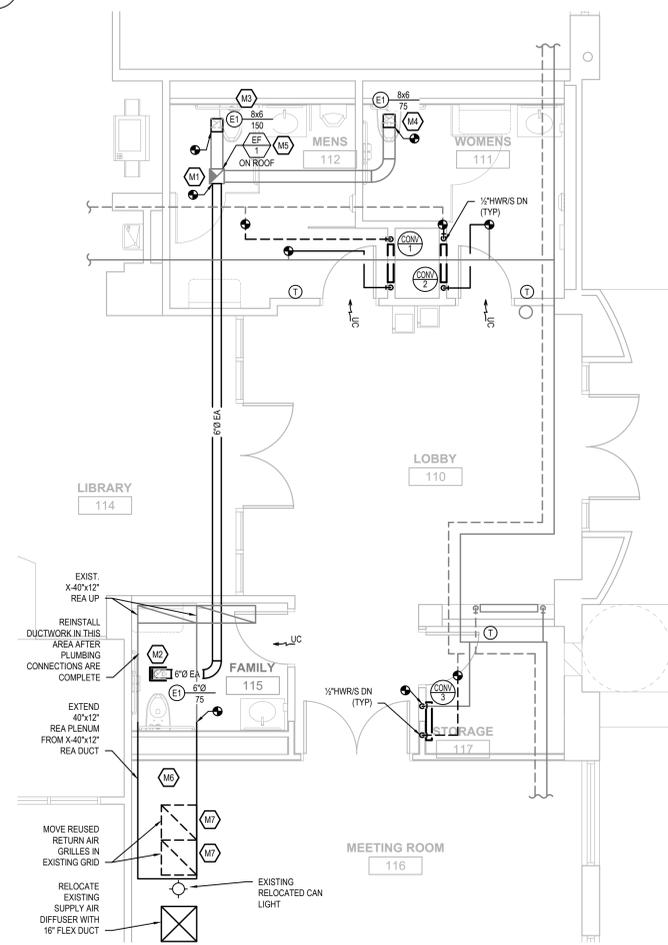
1. PROVIDE LOCKABLE 12x12 ACCESS PANELS IN DRYWALL CEILINGS AND WALLS TO ACCESS ANY VALVES, AIR VENTS, EQUIPMENT, ETC. COORDINATE EXACT LOCATIONS WITH LIGHTING AND FIRE ALARM DEVICES

KEY NOTES

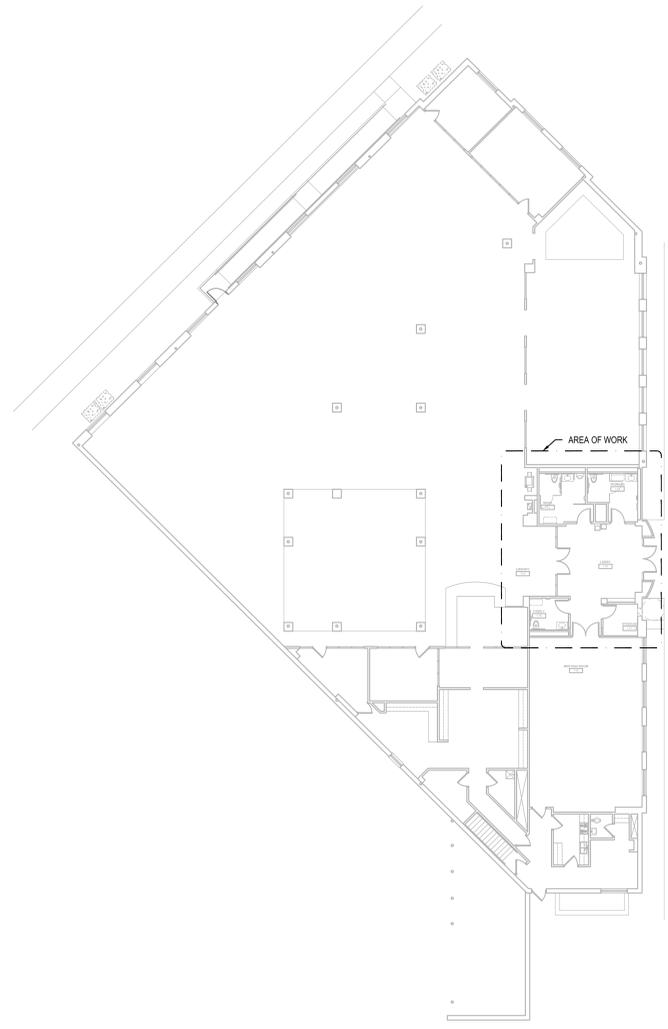
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|----|--|
| M1 | CONNECT TO X-10x10 EA DUCTWORK AND PROVIDE MANUAL BALANCING DAMPER. |
| M2 | PROVIDE NEW EXHAUST GRILLE. |
| M3 | PROVIDE NEW GRILLE AND REBLANCE TO 150 CFM. |
| M4 | PROVIDE NEW GRILLE AND REBLANCE TO 75 CFM. |
| M5 | PROVIDE NEW EXHAUST FAN AND PROVIDE CURB ADAPTOR AS REQUIRED TO REUSE EXISTING CURB. |
| M6 | WHEN EXTENDING DUCT DO NOT BLOCK ELECTRICAL JUNCTION BOXES LOCATED IN SOFFIT. |
| M7 | CLEAN AND REUSE EXISTING X-24"x24" EGG CRATE GRILLES |



CENTER STREET BRANCH - LEVEL 1 - MECHANICAL DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"



CENTER STREET BRANCH - LEVEL 1 - MECHANICAL NEW FLOOR PLAN
SCALE: 1/4" = 1'-0"



CENTER STREET BRANCH - OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"

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PROJECT INFORMATION

**MILWAUKEE PUBLIC LIBRARY:
MULTI-BUILDING ALTERATIONS**

ATKINSON STREET BRANCH
CENTER STREET BRANCH
CENTRAL LIBRARY

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KEY PLAN

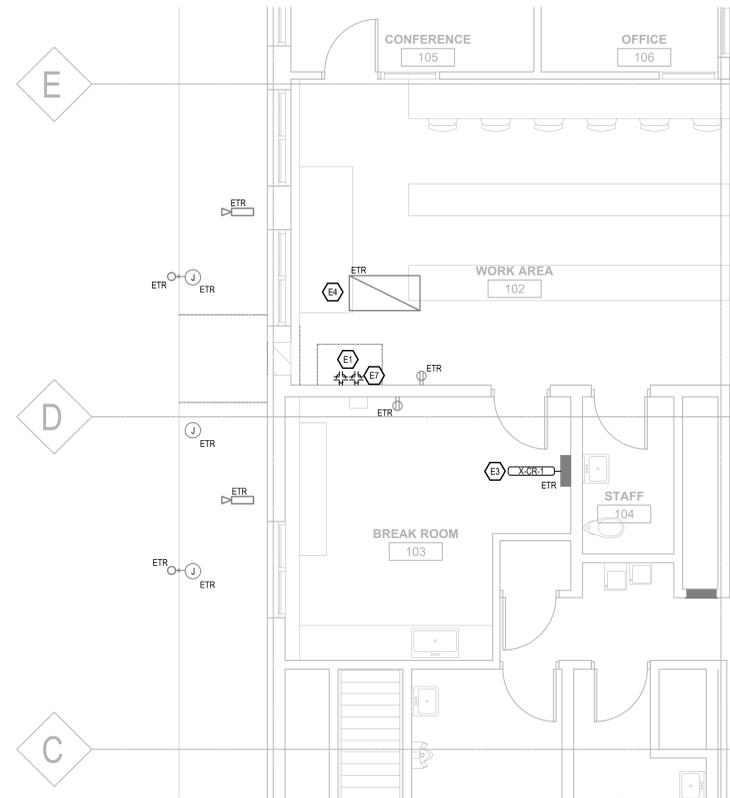
SHEET INFORMATION

PROJECT MANAGER	
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DATE	06.03.2019

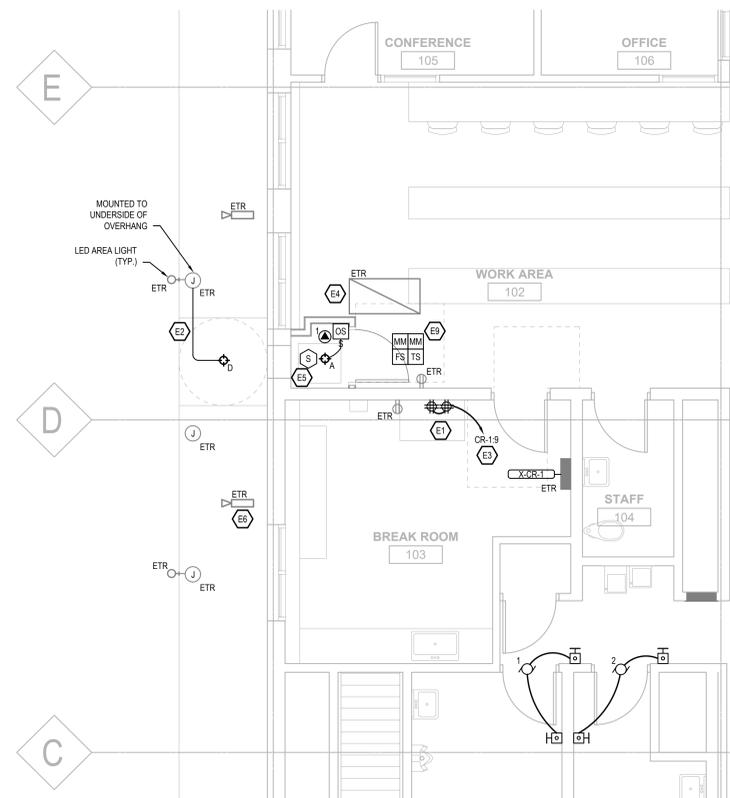
ELECTRICAL FLOOR PLANS - ATKINSON STREET BRANCH

E101

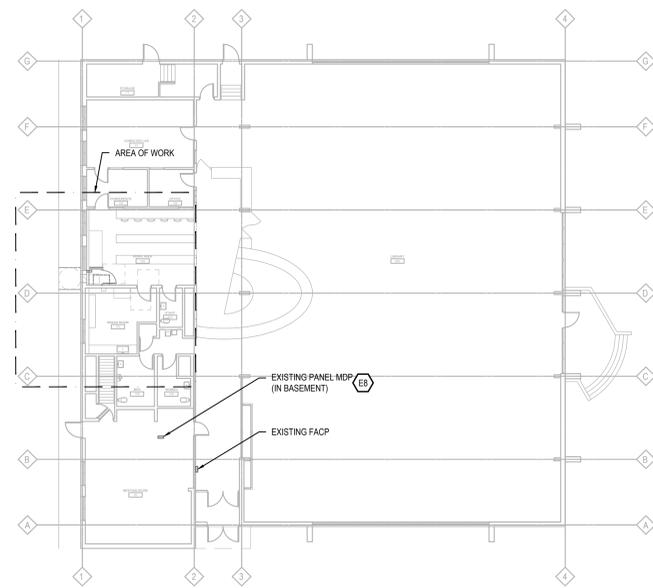
KEY NOTES	
E1	RELOCATION OF EXISTING DATA RACK AND ALL ASSOCIATED DATA CABLING TO BE DONE BY MPL.
E2	EXTEND EXISTING EXTERIOR LIGHT CIRCUIT TO NEW LIGHT FIXTURE ABOVE BOOK DROP.
E3	EXISTING PANEL CR-1, SIEMENS TYPE S1. PROVIDE NEW 20A/1P CIRCUIT FOR DATA CABINET RECEPTACLES.
E4	TEMPORARILY REMOVE EXISTING LIGHT FIXTURE, IF REQUIRED, TO ACCOMMODATE NEW WALL CONSTRUCTION.
E5	PROVIDE SMOKE DETECTOR IN NEW BOOK DROP CLOSET. CONNECT TO EXISTING FIRE ALARM SYSTEM.
E6	ADJUST AMING OF CAMERA TO PROVIDE COVERAGE OF BOOK DROP AREA.
E7	DISCONNECT AND REMOVE EXISTING RECEPTACLES, INCLUDING ALL ASSOCIATED CONDUIT AND WIRING BACK TO PANEL.
E8	EXISTING 400A, 120/240V, 1PH, 3W - PANEL "MDP" (SQUARE D TYPE NQ00) LOCATED IN BASEMENT. PROVIDE (2) NEW 20A/1P BREAKERS TO SERVE NEW CIRCUITS.
E9	PROVIDE ADDRESSABLE MONITORING MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES. CONNECT TO EXISTING FIRE ALARM SYSTEM. COORDINATE QUANTITY OF SWITCHES WITH FIRE PROTECTION SYSTEM CONTRACTOR.



3 ATKINSON STREET BRANCH - LEVEL 1 -
ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 ATKINSON STREET BRANCH - LEVEL 1 -
ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



1 ATKINSON STREET BRANCH - OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"

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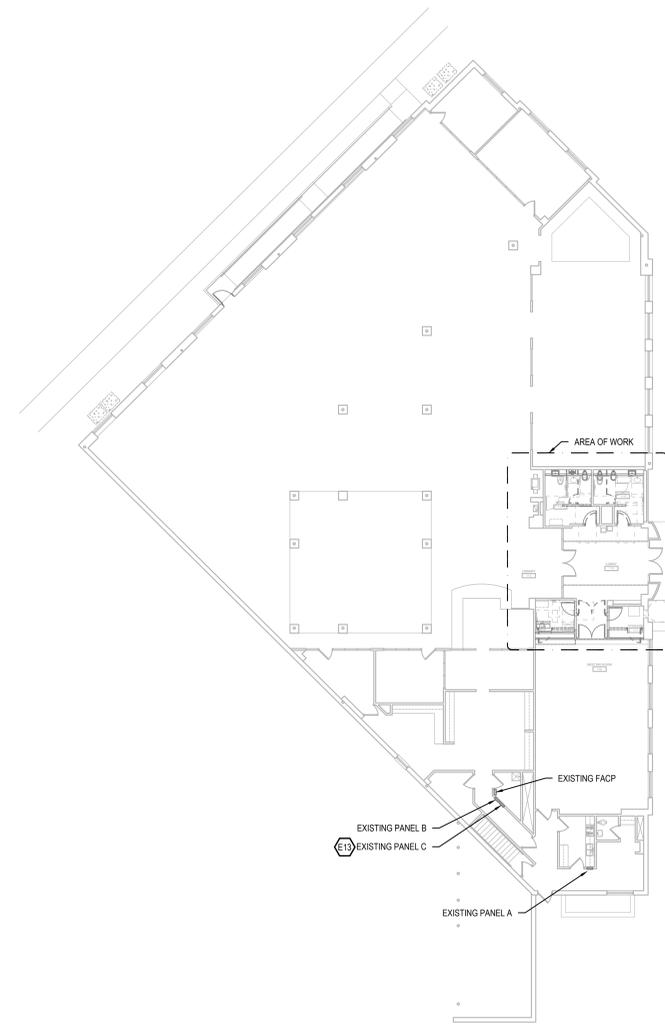
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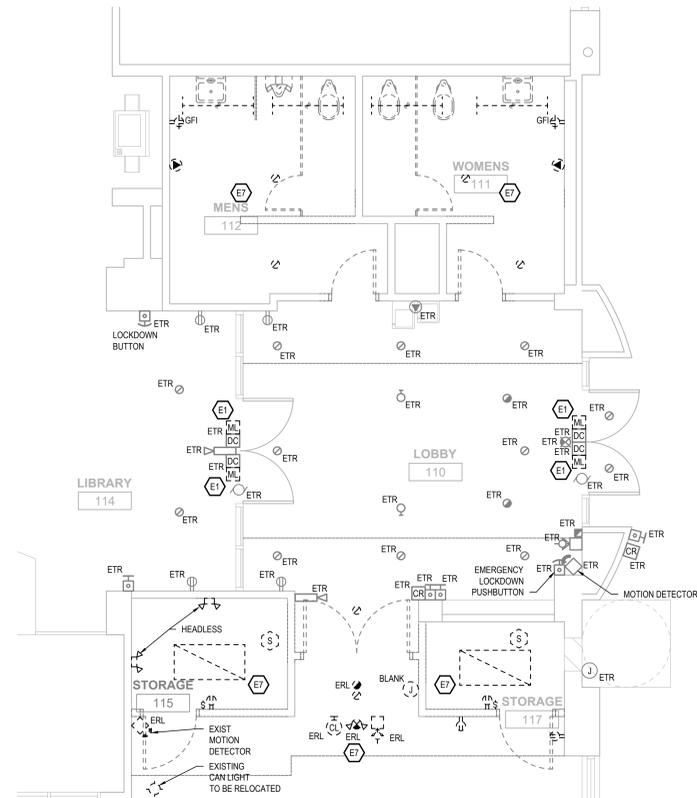
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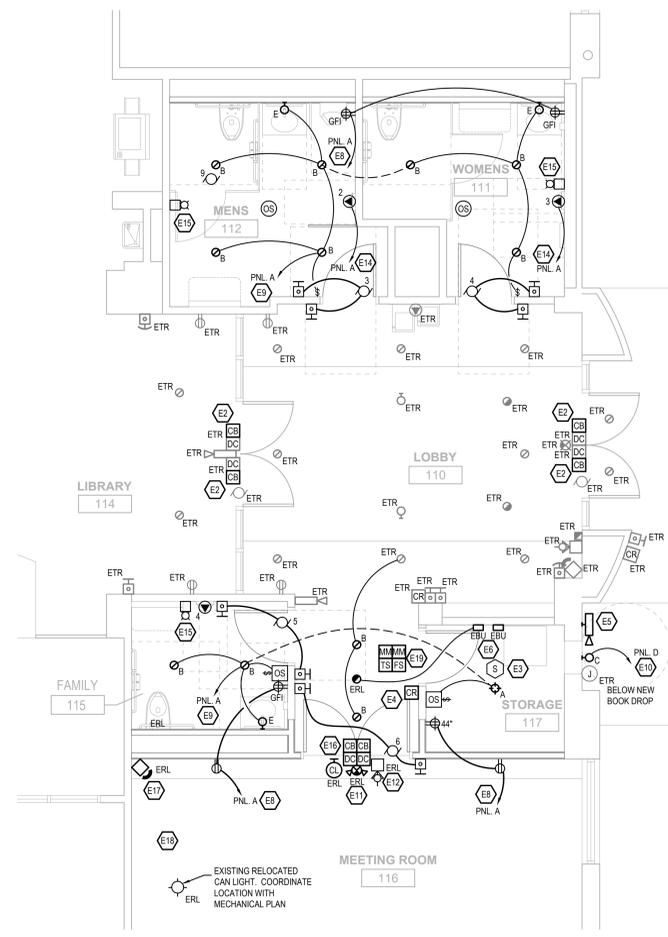
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1 CENTER STREET BRANCH - OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"



3 CENTER STREET BRANCH - LEVEL 1 -
ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 CENTER STREET BRANCH - LEVEL 1 -
ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES	
E1	DISCONNECT AND REMOVE EXISTING MAG LOCK AND WIRING.
E2	PROVIDE NEW WIRING TO CONNECT ELECTRIFIED CRASH BAR/LOCK TO EXISTING SECURITY AND ACCESS CONTROL SYSTEM.
E3	PROVIDE SMOKE DETECTOR IN NEW BOOK DROP CLOSET. CONNECT TO EXISTING FIRE ALARM SYSTEM.
E4	PROVIDE NEW CARD READER (HID CLASS #120) FOR DOUBLE DOORS INTO COMMUNITY ROOM. CONNECT TO EXISTING SECURITY AND ACCESS CONTROL SYSTEM.
E5	PROVIDE NEW CAMERA (AXIS #P3367-VE) FOR BOOK DROP. CONNECT TO EXISTING SECURITY/CAMERA SURVEILLANCE SYSTEM.
E6	RECONNECT EXISTING EMERGENCY LIGHT CIRCUITS TO NEW EBUS.
E7	DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL ITEMS IN THIS AREA. EXISTING BRANCH CIRCUITS TO REMAIN TO SERVE NEW WORK.
E8	RECONNECT TO EXISTING RECEPTACLE CIRCUIT SERVING THIS SPACE.
E9	RECONNECT TO EXISTING LIGHT CIRCUIT SERVING THIS SPACE.
E10	CONNECT TO EXISTING EXTERIOR LIGHT CIRCUIT.
E11	RECONNECT TO EXISTING EXIT LIGHT CIRCUIT.
E12	RECONNECT TO EXISTING FIRE ALARM NAC CIRCUIT.
E13	EXISTING PANEL "C" (WESTINGHOUSE PRL1 PANELBOARD). PROVIDE (3) NEW 20A/1P BREAKERS TO SERVE NEW CIRCUITS.
E14	RECONNECT TO EXISTING HAND DRYER CIRCUIT.
E15	PROVIDE NEW FIRE ALARM STROBE. CONNECT TO EXISTING FIRE ALARM SYSTEM.
E16	PROVIDE NEW DOOR SECURITY ALARM CONTACTS (HONEYWELL #7945). CONNECT TO EXISTING SECURITY SYSTEM.
E17	EXISTING MOTION SENSOR RELOCATED FROM DEMOLITION. RECONNECT TO EXISTING SECURITY SYSTEM.
E18	REMOVE AND REINSTALL COMMUNICATION CABLE TO ACCOMMODATE DUCTWORK EXTENSION IN THIS AREA.
E19	PROVIDE ADDRESSABLE MONITORING MODULES FOR SPRINKLER FLOW AND TAMPER SWITCHES. CONNECT TO EXISTING FIRE ALARM SYSTEM. COORDINATE QUANTITY OF SWITCHES WITH FIRE PROTECTION SYSTEM CONTRACTOR.



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MILWAUKEE PUBLIC LIBRARY:
MULTI-BUILDING ALTERATIONS
 ATKINSON STREET BRANCH
 CENTER STREET BRANCH
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KEY PLAN

SHEET INFORMATION

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DATE	06.03.2019

ELECTRICAL FLOOR PLANS - CENTER STREET BRANCH

E102



THIS BAR APPEARS 2" LONG ON FULL SIZE SHEETS

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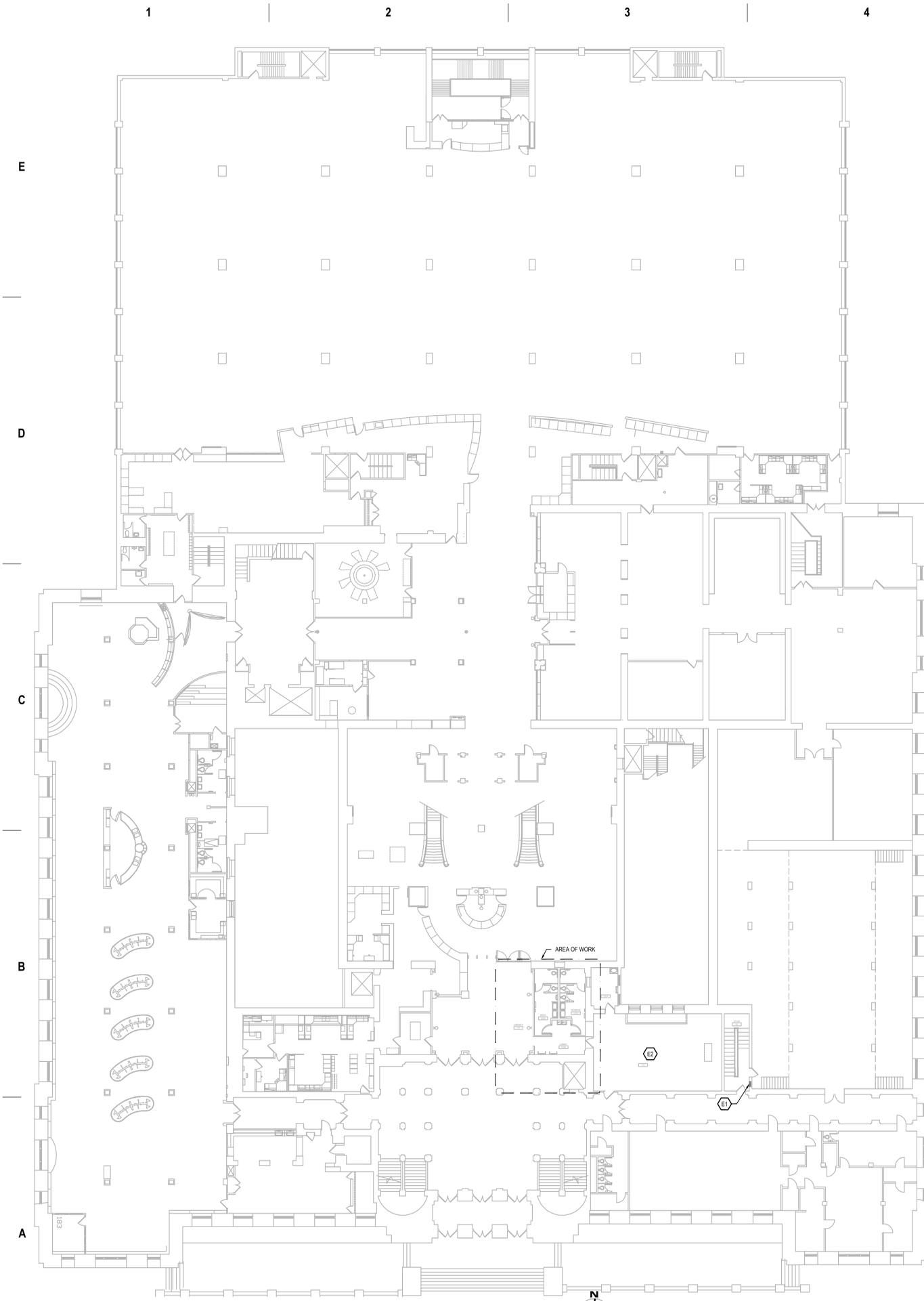
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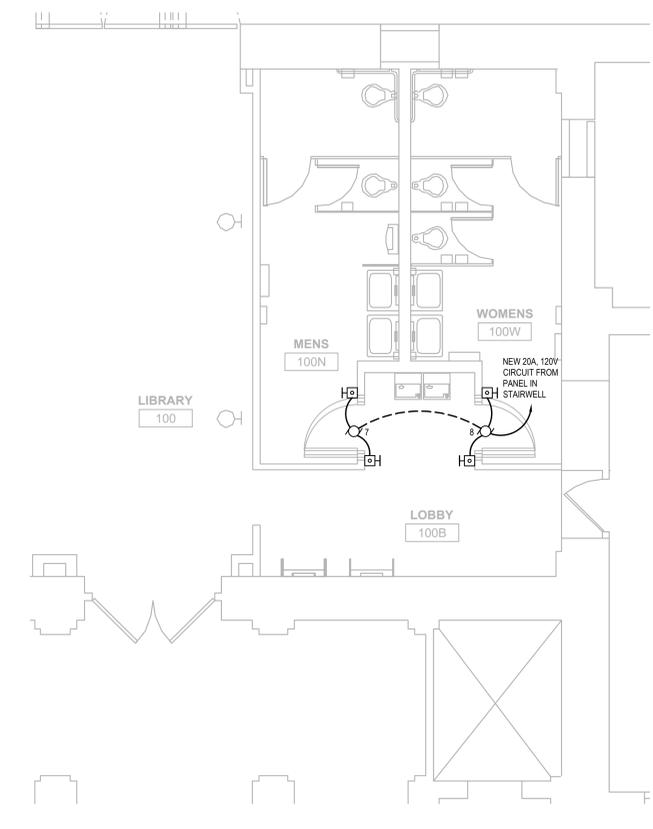
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1 CENTRAL LIBRARY - OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"

KEY NOTES	
E1	EXISTING SQUARE D LOAD CENTER LOCATED IN STAIRWELL. PROVIDE 20A, 1P BREAKER TO SERVE DOOR OPERATORS. ROUTE CONDUIT OUT OF TOP OF PANEL, UP TO CEILING AND ACROSS STAIRWELL INTO CEILING SPACE OF MEETING ROOM.
E2	ROUTE CONDUIT ABOVE CEILING OF MEETING ROOM, OVER TO LOBBY 100B, THEN DOWN TO DOOR OPERATORS.



2 CENTRAL LIBRARY - LEVEL 1 - ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



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MILWAUKEE PUBLIC LIBRARY:
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ELECTRICAL FLOOR PLANS - CENTRAL LIBRARY

E103

LIGHTING FIXTURE SCHEDULE

FIKT.	DESCRIPTION	LAMPING		VOLT	MANUFACTURER	CATALOG NUMBER	MOUNTING	SEE NOTE
		TYPE	INPUT					
A	2 FT. SURFACE MOUNTED LED STRIP	2410 LUMENS, 4000K LED	20.1 VA	UNV.	METALUX	25NLED-LD5-23SL-LW-UNV-L&M-CD1	SYRFACE MOUNTED ON CEILING	
B	4" DIA. RECESSED LED DOWNLIGHT	1000 LUMENS, 4000K LED	12 VA	UNV.	FOCAL POINT	FLC4D-R0-1000L-120LD1-TLC4-RD-1000L-4K-ON-CD-WP	RECESSED	
C	EXTERIOR WALL BRACKET	1216 LUMENS, 4000K LED	17 VA	UNV.	BEGA	24 502-K4-BRZ	WALL MOUNTED - 12" ABOVE GRADE	
D	EXTERIOR CANDOPY MOUNT	1674 LUMENS, 4000K LED	20 VA	UNV.	BEGA	66 159-K4-BRZ	SURFACE MOUNTED ON SOFFIT	
E	2" LED VANITY	1510 LUMENS, 3500K LED	20.5 VA	UNV.	WAC LIGHTING	WS-77624-35-AL	SURFACE WALL, HORIZONTAL 6" ABOVE MIRROR	
EBU	EMERGENCY BATTERY UNIT (TWO HEADS)	-	20 VA	120 V	DUAL LITE	AS80-12V-1-0	WALL MOUNTED - 8" A.F.F.	1

REMARKS:
 A. CONTRACTOR SHALL CONFIRM CEILING TYPE REQUIREMENTS PRIOR TO THE RELEASE OF THE ORDER.
 B. CATALOG NUMBERS ARE TO PROVIDE GUIDANCE ONLY AND MAY NOT BE COMPLETE.
 C. FIXTURES SPECIFIED TO MEET DESIGN INTENT. EQUALS MAY BE SUBSTITUTED SUBJECT TO DESIGN TEAM'S APPROVAL.
 D. PROVIDE ALL PARTS AND PIECES NECESSARY FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
 E. ARCHITECT/GENERAL CONTRACTOR TO DETERMINE ALL FINISHES.

NOTES:
 1. COORDINATE VOLTAGE OUTPUT OF EBU WITH EXISTING RECESSED EMERGENCY LIGHT FIXTURES

SPECIAL PURPOSE OUTLET SCHEDULE

MARK	TO FEED	LOCATION	KW	FLA	VOLT	PH	FEED FROM		BREAKER		SEE NOTE
							PANEL	CIRCUIT	SIZE	POLE	
1	ELECTRIC CEILING HEATER ECH-	ATKINSON ST. - BOOK DROP CLOSET	2	12.5	120	1	MPD	22	20	1	
2	HAND DRYER	CENTER ST. - MEN'S 112	1.725	15	120	1	A	EXIST	20	1	1
3	HAND DRYER	CENTER ST. - WOMEN'S 111	1.725	15	120	1	A	EXIST	20	1	1
4	HAND DRYER	CENTER ST. - FAMILY 115	1.725	15	120	1	C	2	20	1	

NOTES:
 1. RECONNECT TO EXISTING CIRCUIT

MOTOR WIRING SCHEDULE

NO.	DRIVING	LOC.	HP	FLA	VOLT	PH	FEED FROM		BREAKER		SEE NOTE
							PANEL	CIRCUIT	SIZE	POLE	
1	AUTO DOOR OPERATOR	ATKINSON ST. - MEN'S ROOM			120	1	MPD	20	20	1	
2	AUTO DOOR OPERATOR	ATKINSON ST. - WOMEN'S ROOM			120	1	MPD	20	-	-	
3	AUTO DOOR OPERATOR	CENTER ST. - MEN'S 112			120	1	C	1	20	1	
4	AUTO DOOR OPERATOR	CENTER ST. - WOMEN'S 111			120	1	C	1	-	-	
5	AUTO DOOR OPERATOR	CENTER ST. - FAMILY 115			120	1	C	3	20	1	
6	AUTO DOOR OPERATOR	CENTER ST. - COMMUNITY RM.			120	1	C	3	-	-	
7	AUTO DOOR OPERATOR	CENTRAL - MEN'S 100N			120	1	EXIST	40	20	1	
8	AUTO DOOR OPERATOR	CENTRAL - WOMEN'S 100W			120	1	EXIST	40	-	-	
9	EXHAUST FAN EF-1	CENTER ST. - MEN'S 112	1/5		120	1	A	EXIST	20	1	1

NOTES:
 1. RECONNECT TO EXISTING CIRCUIT



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ELECTRICAL SCHEDULES



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