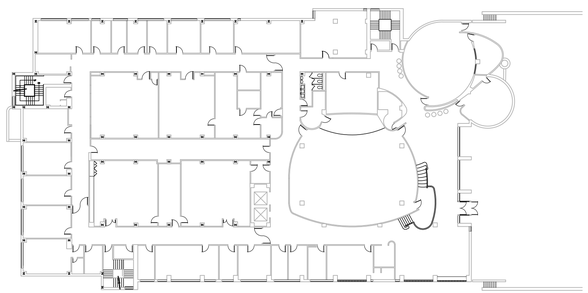
RESTROOM RENOVATION
PURCHASE COLLEGE

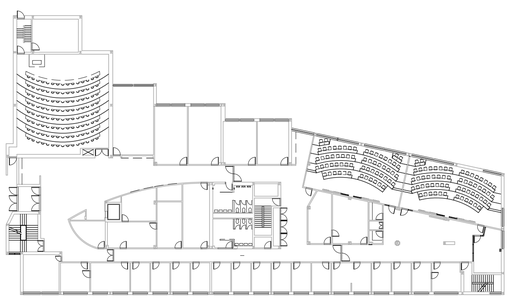
STATE UNIVERSITY OF NEW YORK

735 Anderson Hill Rd.
Purchase, NY 10577

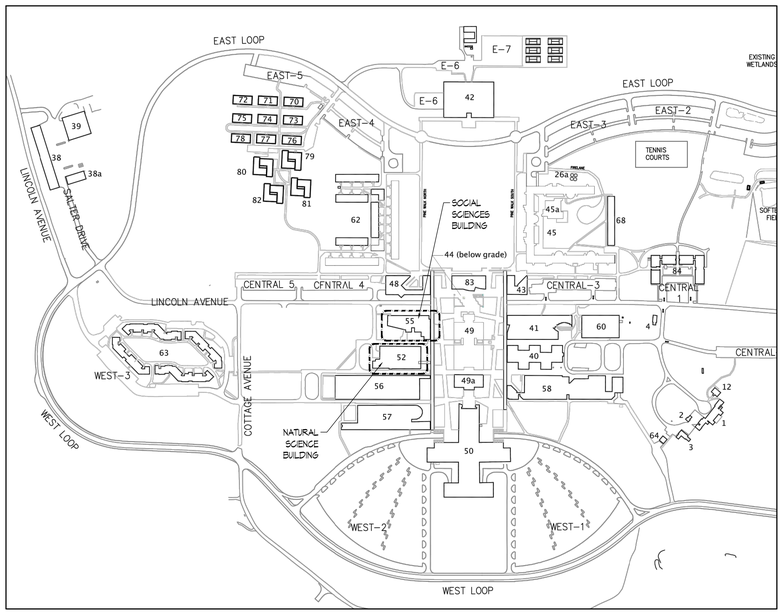
PHASE 1
SOCIAL SCIENCES BUILDING
NATURAL SCIENCE BUILDING



2 NATURAL SCIENCE BUILDING FIRST FLOOR KEYPLAN
NTS



2 SOCIAL SCIENCES BUILDING FIRST FLOOR KEYPLAN
NTS



1 PURCHASE COLLEGE CAMPUS PLAN
NTS

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Conditions

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Rev	Date	Issue
	2/27/2020	Issue for SD Review
	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	6/30/2020	Pre-Bid Documents
	11/17/2020	Issue to Bid

Title

TITLE, KEYPLANS AND LOCATION MAP

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

DOB Rev
A-001.00
1

ABBREVIATIONS

ACM	Asbestos Containing Material
A.F.F.	Above Finish Floor
AP	Access panel
ACT	Acoustical Ceiling Tile
ADD'L	Additional
ADJ	Adjacent, Adjustable
AC	Air Conditioning
ALUM	Aluminum
&	And
∠	Angle
ANOD	Anodized
ARCH, ARCH'T	Architect(ural)
@	At
AXO	Axonometric
B	Base
BSMT	Basement
BM	Beam
BR	Bedroom
BTWN	Between
BLK'G	Blocking
BD	Board
B.S.&A.	Board of Standards and Appeals
BOTT, B.O.	Bottom (of)
BLDG	Building
CAB'T	Cabinet, Cabinetry
C.H.	Ceiling Height
CPT	Carpet
CLG	Ceiling
CMU	Concrete Masonry Unit
CTR	Center
℄	Center Line
CT	Ceramic Tile
CL	Closet
CLR	Clear
COL	Column
COORD	Coordinate
CONC	Concrete
COND	Condition
CONSTR	Construction
CONT	Continuous
CORR	Corridor
DTL	Detail
DIA	Diameter
DIFF	Diffuser
DIM	Dimension
DR	Door
DBL	Double
DN	Down
DW	Dish Washer
DWR	Drawer
DWG	Drawing
EA	Each
EL	Elevation
ELEV	Elevator
ELEC	Electrical
ENCST	Encaustic
EQ	Equal
EX'G	Existing
EXT	Exterior
EXTR	Extruded
F.O.	Face of
FSTN	Fasten
FIN	Finish
FIXT	Fixture
FL	Floor
FL'G	Flooring
FLUOR	Fluorescent
FPSC	Fire Proof Self-Closing Door
FRM'G	Framing
FT	Foot or Feet
FURR	Furring
GC	General Contractor
GL	Glass
GFI	Ground Fault Interrupter
GWB	Gypsum Wall Board
HC	Handicapped
HWR	Hardware
HWD	Hardwood
HDR	Handrail
HT	Height
HM	Hollow Metal
INCAND	Incandescent
INCL	Including
INT	Interior
JAN	Janitor
JT	Joint
LAM'D	Laminated
LT	Light
LWT	Lightweight
LIN	Linear, Linen
LP	Low Point
MFR	Manufacturer
MBR	Master Bedroom
MAT	Material
MAX	Maximum
MC	Medicine Cabinet
MTL	Metal
M	Meter
MICRO	Microwave
MIN	Minimum
MIR	Mirror
MTD	Mounted
NEC	Necessary
NOM	Nominal
N.I.C.	Not in Contract
N.T.S.	Not to Scale
O.C.	On center
OP'G	Opening
OPP	Opposite
PT, PTD	Paint, Painted
PNL	Panel
PART'N, PTN	Partition
PLAS	Plaster
P. LAM	Plastic Laminate
PL	Plate
PLEXI	Plexiglas
PLY	Plywood
QTY	Quantity
R	Relocated
RAD	Radius, Radiator
RECT	Rectangular
REF	Refrigerator
RCP	Reflected Ceiling Plan
REQ'D	Required
RM	Room
SCHED	Schedule
SECT	Section
SH	Shelf
SIM	Similar
S.C.	Solid Core
SP	Solid Surfacing
SPEC	Specification
S.S.	Stainless steel
ST	Stone
STL	Steel
STN	Stain
STOR	Storage
STRUCT	Structural, Structure
SURR.	Surround
SUSP	Suspended
T	Tile
TEL	Telephone
TERR	Terrazzo
THK	Thick, Thickness
T.B.D.	To Be Determined
T&B	Top and Bottom
T.O.	Top of
TYP	Typical
U.O.N.	Unless Otherwise Noted
U/S	Underside
VCT	Vinyl Composition Tile
VERT	Vertical
VEN	Veneer
V.I.F.	Verify In Field
W	Width
W/	With
W.C.	Water Closet
W/D	Washer/Dryer
WP	Waterproof(ing)
WT	Weight
WNDW	Window
WD	Wood

SAFETY NOTES

1. GENERAL:

A) ALL DEMOLITION, REPAIRS & ALTERATIONS TO BE DONE IN ACCORDANCE WITH THE NY STATE BLDG CODE & ALL OTHER REGULATIONS & AGENCIES HAVING JURISDICTION.

B) ANY DAMAGES TO WALL & FLOOR FINISHES IN ANY OF THE COMMON AREAS OF THE BLDG AFFECTED BY THE WORK SHALL BE REPAIRED BY GC.

C) GC TO PROVIDE REQUIRED TEMPORARY BRACING & SHORING WHEREVER ANY STRUCTURAL WORK IS INVOLVED.

2. MEANS OF EGRESS:

A) ALL EX'G MEANS OF EGRESS FROM THE BLDG TO BE MAINTAINED CLEAR & FREE OF ALL OBSTRUCTIONS SUCH AS BLDG MATERIALS, TOOLS, ETC.

3. FIRE SAFETY:

A) ALL BLDG MATERIALS STORED AT THE CONSTR. AREA & OR ANY AREA OF THE BLDG ARE TO BE SECURED IN A LOCKED AREA IN AN ORDERLY FASHION. ACCESS TO SUCH AREAS TO BE CONTROLLED BY OWNER AND/OR GC.

B) ALL FLAMMABLE MATERIALS ARE TO BE KEPT TIGHTLY SEALED IN THEIR MFR'S CONTAINERS, TO BE KEPT AWAY FROM HEAT & IN AN ADEQUATELY VENTILATED SPACE.

C) ALL ELECTRICAL POWER TO BE SHUT OFF WHERE CONDUIT IS EXPOSED. ALL ELECTRICAL POWER IN THE CONSTRUCTION AREA TO BE SHUT OFF AFTER WORKING HOURS.

D) AT ALL TIMES, GC TO MAKE SURE THERE IS NO LEAKAGE OF NATURAL GAS OR ANY FLAMMABLE GAS USED IN CONSTR. IN THE BLDG.

4. DUST CONTROL, WORK HOURS, PROTECTION AND NOISE:

A) GC SHALL MINIMIZE & CONFINE TO THE IMMEDIATE CONSTR. AREA DEBRIS, DIRT & DUST FROM PERMEATING OTHER PARTS OF THE BLDG DURING CONSTR. ALL MATERIALS & RUBBISH WILL BE PLACED IN BARRELS OR BAGS BEFORE BEING REMOVED FROM THE AREA OF WORK.

B) DEBRIS, DUST & DIRT WILL BE CLEARED FROM THE BLDG REGULARLY TO AVOID ANY EXCESSIVE ACCUMULATION.

C) IF LEAD PAINT OR ACM IS ENCOUNTERED, IT SHALL BE HANDLED & ABATED BY LICENSED CONTRACTOR IN ACCORDANCE WITH FEDERAL & NY STATE LAWS.

5. CONSTRUCTION THAT REQUIRES INTERRUPTION OF HEATING, WATER OR ELECTRICAL SERVICES IN THE BLDG, SHALL BE COORDINATED BETWEEN GC AND THE COLLEGE & SHALL NOT DELAY SCHEDULE.

6. CAMPUS REQUIRES A MIN OF 72 HOURS ADVANCED NOTICE FOR ANY REQUESTED SHUTDOWNS OR DISRUPTIONS TO CAMPUS UTILITIES.

7. STRUCTURAL SAFETY: NO STRUCTURAL WORK SHALL BE DONE THAT MAY ENDANGER THE OCCUPANTS.

PURCHASE COLLEGE NOTES

1. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL WEAR VISIBLE, EASILY IDENTIFIABLE ID BADGES.

2. LOUD, NOISY, DISRUPTIVE WORK (DRILLS, SAWS, POWER TOOLS, ETC.) SHALL BE COORDINATED WITH COLLEGE REPRESENTATIVE TO MINIMALLY DISTURB FUNCTIONING IN THE REST OF THE BLDG.

3. REFER TO APPENDIX "A" SPECIAL CONDITIONS FOR CONSTRUCTION FOR ADDITIONAL REQUIREMENTS BY THE COLLEGE.

4. ALL ADJOINING PROPERTY AFFECTED BY ANY OPERATIONS SHALL BE PROTECTED PER REQUIREMENTS OF CHAPTER 33 OF THE NY STATE BUILDING CODE.

5. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF CONDITIONS & MATERIALS WITHIN & ADJACENT TO THE PROPOSED CONSTR. AREA. THE CONTRACTOR SHALL DESIGN & INSTALL ADEQUATE SHORING & BRACING FOR ALL CONSTR. OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.

6. THE CONTRACTOR SHALL PROVIDE, INSTALL & MAINTAIN AIR FILTERS TO PROTECT FRESH AIR INTAKES, LOUVERS & HVAC UNITS AS REQ'D AT LOCATIONS DETERMINED BY THE COLLEGE.

FEMA FLOOD DATA & USGS GROUNDWATER DATA

1. PER THE FEMA FLOOD INSURANCE RATE MAP, 2013 "PRELIMINARY," AS WELL AS THE 2007 MAP NUMBER 36119C0287F, EFFECTIVE ON 09/28/2007, THIS BUILDING LIES OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.
2. GROUND WATER IS NOT OF CONCERN IN THIS PROJECT, AS THE PROPOSED WORK IS CONFINED ENTIRELY TO SELECTED INTERIOR UPGRADE OF SELECTED BUILDINGS, ABOVE GRADE.
3. THE BLDG IS NOT LOCATED IN A SPECIAL FLOOD HAZARD AREA.

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

1. STATEMENT OF COMPLIANCE:
   TO THE BEST OF MY KNOWLEDGE, BELIEF & PROFESSIONAL JUDGMENT, ALL WORK UNDER THIS APPLICATION IS IN COMPLIANCE WITH THE 2020 NYS ECCC.
2. COM-CHECK ANALYSIS FOR INTERIOR LIGHTING ARE PROVIDED ON ELECTRICAL DRAWINGS.
3. REFER TO MEP DRAWINGS FOR SPECIFIC ENERGY CODE COMPLIANCE PER TRADE.

BUILDING DEPARTMENT NOTES

1. ALL DOORS MUST COMPLY WITH NYS REGULATIONS REGARDING INCOMBUSTIBLE MATERIALS.
2. ALL WOOD TO BE USED IN THE CONSTR. SHALL BE FIRE RETARDANT TREATED WOOD.
3. FIRE-STOPPING SHALL BE AS REQ'D BY NYS BLDG CODE CHAPTER 17 SECTION 1705.17.
4. ALL INTERIOR FINISHES SHALL COMPLY W/ THE NYS BLDG CODE CHAPTER 8 INTERIOR FINISHES.
5. ALL MATERIALS, ASSEMBLIES, FORMS & METHODS OF CONST & SERVICE EQUIP SHALL COMPLY W/ THE NY STATE BLDG CODE CHAPTER 1 SECTION 104: MATERIALS, EQUIPMENT & METHODS OF CONSTRUCTION.
7. ALL WORK MUST COMPLY W/ CHAPTER 11 OF THE 2020 NYS BUILDING CODE, ANSI A117.1/2009 & ALL CODES ASSOCIATED WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
9. ALL PARTITIONS OF PUBLIC CORRIDORS, HALL PASSAGES, & OTHER PERMANENT PARTITIONS TO BE OF 1 HOUR FIRE RESISTIVE RATING WITH 3/4 HOUR APPROVED TYPE DOOR.
10. ALL MECHANICAL SPACES & SHAFTS TO BE OF 2 HOUR FIRE RESISTIVE RATING WITH 1 ½ HOUR APPROVED TYPE DOOR.
11. HUNG CEILING TO CONFORM WITH NYS BLDG CODE CHAPTER 7 FOR CLASS 1 FIREPROOFING.
12. ALL METAL STUD PARTITIONS TO BE CONSTRUCTED IN ACCORDANCE NYS BUILDING CODE CHAPTER 7 & 22 & ALL APPLICABLE INDUSTRY STANDARDS.
13. SPECIAL & PROGRESS INSPECTIONS SHALL BE CARRIED OUT IN ACCORDANCE W/ CHAPTER 17 OF THE NYS BUILDING CODE.

SPECIAL INSPECTION	CODE REF.
1. FIRE RESISTANT PENETRATIONS & JOINTS PROGRESS INSPECTION	CODE REF. BC 1705.17
2. ENERGY CODE COMPLIANCE	CODE REF. BC 109.3.5
3. FINAL	CODE REF. IRCNY 101-10

IN ADDITION TO ABOVE INSPECTIONS, REFER TO MEP DWGS FOR REQUIRED SPECIAL INSPECTIONS PER EACH TRADE.

14. CONTRACTOR IS RESPONSIBLE FOR ARRANGING SPECIAL INSPECTIONS REQ'D FOR FINAL SIGN-OFFS W/ AUTHORITIES HAVING JURISDICTION. OWNER SHALL RETAIN TESTING FIRMS & SPECIAL INSPECTION AGENCIES.

ACCESSIBILITY DESIGN NOTES:

ACCESSIBILITY REGULATION AS PER:

- CHAPTER 11 OF 2020 NYS BUILDING CODE
- ICC/ANSI A 117.1 -2009 AND ADA
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

1. ACCESSIBLE ROUTE: ALL SANITARY FACILITIES SHALL BE ON ACCESSIBLE ROUTE, WITH MIN WIDTH OF 36".
2. ALL DOORWAYS LEADING TO SUCH SANITARY FACILITIES SHALL HAVE:

A) A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32"

B) A LEVEL & CLEAR AREA FOR A MIN DEPTH OF 60" IN THE DIRECTION OF THE DOOR SWING AS MEASURED AT RIGHT ANGLES TO THE PLANE OF THE DOOR IN ITS CLOSED POSITION, & 48" WHERE THE DOOR SWINGS AWAY FROM THE LEVEL & CLEAR AREA.

C) DOOR MANEUVERING CLEARANCES, AS PER 2009 404.2.3, FIG. 404.2.3.2 & TABLE 404.2.3.2, SEE SHEET A-003

D) PERMITTED CHANGE IN LEVEL IN FLOOR SURFACES SHALL NOT EXCEED 1/4" BEFORE MAX HEIGHT OF BEVEL 1/4" AS PER ANSI 2009 303, SEE ADA DETAIL ON SHEET A-502.

E) IF PROVIDED, THRESHOLDS AT DOORWAYS SHALL BE 1/2" MAX IN HEIGHT.

EXCEPTION: AN EX'G OR ALTERED THRESHOLD SHALL BE PERMITTED TO BE 3/4" MAX IN HEIGHT PROVIDED THAT THRESHOLD HAS A BEVELED EDGE ON EACH SIDE WITH A MAX SLOPE OF 1:2 FOR THE HEIGHT EXCEEDING 1/4". (SEE ANSI 2009 404.2.4)

3. SINGLE ACCOMMODATION TOILET FACILITIES: THERE SHALL BE SUFFICIENT SPACE IN TOILET ROOM FOR A WHEELCHAIR MEASURING 30"X48" TO ENTER THE ROOM & PERMIT THE DOOR TO CLOSE. AS PER ANSI 2009 404.3, CLEARANCE AROUND A W.C. SHALL BE 60" MIN IN WIDTH, MEASURED PERPENDICULAR FROM THE SIDEWALL & SHALL BE 56" IN DEPTH, MEASURED PERPENDICULAR FROM THE REAR WALL. THE REQ'D CLEARANCE AROUND THE W.C. SHALL BE PERMITTED TO OVERLAP THE W.C, ASSOCIATED GRAB BARS, PAPER DISPENSERS, SANITARY NAPKIN RECEPTACLES, COAT HOOKS, SHELVES, ACCESSIBLE ROUTES, CLEAR FLOOR SPACE AT OTHER FIXTURES & THE TURNING SPACE. NO OTHER FIXTURES OR OBSTRUCTIONS SHALL BE WITHIN THE REQUIRED W.C. CLEARANCE. (SEE ANSI 2009 FIG.604.3)
4. GRAB BARS LOCATED ON REAR & SIDE WALL OF DESIGNATED ACCESSIBLE TOILETS SHALL BE MOUNTED BETWEEN 33"-36" (MEASURED TO THE TOP SURFACE OF THE GRAB BAR) FROM THE FINISHED FLOOR, PARALLEL TO THE FLOOR & AT LEAST 1.5" ABOVE THE FLUSHOMETERS. MIN GRAB BAR DIMS, INSTALLATION REQUIREMENTS & CLEARANCES TO FOLLOW ADA STANDARD DETAILS ON SHEET A-003 AND A-004.
5. A CLEAR FLOOR SPACE 30"X48" SHALL BE PROVIDED IN FRONT OF A LAVATORY TO ALLOW FRONT APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE & SHALL EXTEND INTO KNEE & TOE SPACE UNDERNEATH THE LAVATORY.
6. A CLEAR FLOOR SPACE 30"X48" SHALL BE PROVIDED IN FRONT OF AN URINAL TO ALLOW FORWARD APPROACH. SUCH CLEAR FLOOR SPACE SHALL ADJOIN OR OVERLAP AN ACCESSIBLE ROUTE.
7. DOORS & HARDWARE:

A) MAX DOOR OPENING FORCE FOR ALL INTERIOR DOORS SHALL NOT EXCEED 5 LBS.

B) AS PER ANSI 2009 404.2.5, HANDLES, PULLS, LATCHES, LOCKS, & OTHER OPERABLE PARTS ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND & DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MIN & 48" MAX ABOVE THE FLOOR. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED & USABLE FROM BOTH SIDES.

8. FIXTURES:

A) WATER CLOSETS: THE W.C. SHALL BE LOCATED WITH A WALL OR PARTITION TO THE REAR & TO ONE SIDE. THE CENTERLINE OF THE W.C. SHALL BE 16" MIN AND 18" MAX FROM THE SIDE WALL OR PARTITION. (SEE ANSI 2009 FIG. 604.2) THE HEIGHT OF W.C. SHALL BE MIN OF 17" & A MAX OF 19" MEASURED TO THE TOP OF THE TOILET SEAT.

B) URINALS: THE HEIGHT OF WALL HUNG URINAL RIM SHALL BE AT MAX 17" ABOVE THE FLOOR AS PER ANSI 2009 605. FLUSH CONTROL SHALL BE MOUNTED NO MORE THAN 44" ABOVE THE FLOOR.

ACCESSIBILITY DESIGN NOTES CONT'D:

C) LAVATORIES: LAVATORIES ADJACENT TO A WALL SHALL BE MOUNTED WITH A MIN DISTANCE OF 18" FROM THE CENTER LINE OF THE FIXTURE. ALL ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34" ABOVE THE FLOOR & WITH A CLEARANCE OF AT LEAST 29" FROM THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MIN OF 30" IN WIDTH 8" MIN DEPTH AT THE TOP. TOE CLEARANCE SHALL BE THE SAME WIDTH & MIN 17" DEEP FROM THE FRONT OF THE LAVATORY & MIN 9" HEIGHT FROM THE FLOOR AS PER ANSI 2009 606.3. (SEE ANSI 2009 FIG. 606.3)

D) HOT WATER & PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.

E) FAUCET CONTROLS & OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND & SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST AS PER ANSI 2009 606.4.

F) FORCE REQ'D TO ACTIVATE CONTROLS CANNOT EXCEED 5LBS.

G) MIRRORS SHALL BE MOUNTED WITH THE BOTTOM OF THE REFLECTING SURFACE NO HIGHER THAN 40" ABOVE THE FLOOR (BETTER 39.5").

9. CLEAR FLOOR SPACE IS THE MIN SPACE REQUIRED TO ACCOMMODATE A STATIONARY WHEELCHAIR & ITS OCCUPANT WHICH IS MIN 30"X48". THE MIN CLEAR FLOOR SPACE MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT. IT MAY BE A PART OF THE KNEE SPACE REQ'D UNDER SOME OBJECTS.

10. REACH RANGES:

A) FORWARD REACH: WHEN FORWARD APPROACH IS PROVIDED, THE OBJECT IS IN FRONT OF THE WHEELCHAIR.

a) UNOBSTRUCTED FORWARD REACH:

WHERE A FORWARD REACH IS UNOBSTRUCTED, THE HIGH FORWARD REACH SHALL BE 48" MAX & THE LOW FORWARD REACH SHALL BE 15" MIN ABOVE THE FLOOR. (SEE ANSI 2009 FIG. 208.2.1)

b) OBSTRUCTED HIGH FORWARD REACH:

WHERE A HIGH FORWARD REACH IS OVER AN OBSTRUCTION, THE CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 OF ANSI 2009 SHALL EXTEND BENEATH THE ELEMENT FOR A DISTANCE NOT LESS THAN THE REQ'D REACH DEPTH OVER THE OBSTRUCTION. THE HIGH FORWARD REACH SHALL BE 40" MAX ABOVE THE FLOOR WHERE THE REACH DEPTH IS 20" MAX. WHERE THE REACH DEPTH EXCEEDS 20", THE HIGH FORWARD REACH SHALL BE 44" MAX ABOVE THE FLOOR, & THE REACH DEPTH SHALL BE 25" MAX. (SEE ANSI 2009 FIG. 308.2.2)

B) SIDE REACH: WHEN PARALLEL APPROACH IS PROVIDED, THE OBJECT IS ON THE SIDE OF THE WHEELCHAIR.

a) UNOBSTRUCTED SIDE RECH:

WHERE A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 OF ANSI 2009 ALLOWS A PARALLEL APPROACH TO AN ELEMENT & THE EDGE OF THE CLEAR FLOOR SPACE IS 10" MAX FROM THE ELEMENT, THE HIGH SIDE REACH SHALL BE 48" MAX & THE LOW SIDE REACH SHALL BE 15" ABOVE THE FLOOR. (SEE ANSI 2009 FIG. 308.3.1).

EXCEPTION: EX'G ELEMENTS THAT ARE NOT ALTERED SHALL BE PERMITTED AT 54" MAX ABOVE THE FLOOR.

b) OBSTRUCTED HIGH SIDE REACH:

WHERE A CLEAR FLOOR SPACE COMPLYING WITH SECTION 305 OF ANSI 2009 ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34" ABOVE THE FLOOR AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24" MAX. THE HIGH SIDE REACH SHALL BE 48" MAX ABOVE THE FLOOR FOR A REACH DEPTH OF 10" MAX WHERE THE REACH DEPTH EXCEEDS 10", THE HIGH SIDE REACH SHALL BE 46" MAX ABOVE THE FLOOR FOR A REACH DEPTH OF 24" MAX. (SEE ANSI 2009 FIG. 308.3.2)

11. SIGNAGE:

INTERIOR & EXTERIOR SIGNS IDENTIFYING PERMANENT ROOMS & SPACES SHALL BE ACCESSIBLE & CONTAIN RAISED CHARACTERS & BRAILLE. WHERE ACCESSIBLE SIGN IS PROVIDED AT A DOOR, THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE IT IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE AN ACCESSIBLE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES, THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT-HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE ON THE NEAREST ADJACENT WALL. ACCESSIBLE SIGNS SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18" MIN BY 18" MIN, CENTERED ON THE RAISED CHARACTERS IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. (SEE ANSI 2009 FIG. 703.3.11)

EXCEPTION: SIGNS CONTAINING RAISED CHARACTERS & BRAILLE SHALL BE PERMITTED ON THE PUSH SIDE OF DOORS WITH CLOSERS AND WITHOUT HOLD-OPEN DEVICES.

A) VISUAL CHARACTERS: THEY SHOULD HAVE CHARACTER HEIGHT PROPORTIONAL TO THE VIEWING DISTANCE. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS SHALL CONTRAST WITH THEIR BACKGROUND, WITH EITHER LIGHT CHARACTERS ON A DARK BACKGROUND, OR DARK CHARACTERS ON A LIGHT BACKGROUND. (SEE ANSI 2009 TABLE 703.2.4)

B) RAISED CHARACTERS SHALL BE RAISED 1/32" (0.8 MM) MIN ABOVE THEIR BACKGROUND, SHALL BE IN UPPERCASE AND IN SANS SERIF. RAISED CHARACTERS SHALL BE 48" MIN ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE LOWEST RAISED CHARACTER AND 60" MAX ABOVE THE FLOOR MEASURES TO THE BASELINE OF THE HIGHEST RAISED CHARACTER. (SEE ANSI 2009 FIG. 703.3.5, 703.3.10)

C) BRAILLE: CONTRACTED (GRADE 2) BRAILLE SHALL BE PROVIDED BELOW THE ENTIRE TEXT. IT SHALL BE MOUNTED 48" MIN & 60" MAX ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE BRAILLE CELLS. (SEE ANSI 2009 FIG. 703.4.3, TABLE 703.4.3)

D) PICTOGRAMS: WHERE PICTOGRAMS ARE INSTALLED TO DESIGNATE A PERMANENT INTERIOR ROOM SUCH A TOILET ROOMS, THE PICTOGRAM SHALL HAVE TEXT DESCRIPTION IN RAISED CHARACTERS & BRAILLE LOCATED DIRECTLY BELOW THE PICTOGRAM FIELD. (SEE ANSI 2009 FIG. 703.5)

GENERAL NOTES

GENERAL NOTES:

1. SCOPE OF WORK SHALL NOT BE LIMITED BY THE DRAWINGS BUT SHALL INCLUDE ANY & ALL WORK NECESSARY TO FACILITATE THE INTENT OF THE DOCUMENTS.
2. ALL WORK CALLED FOR ON THESE DWGS SHALL BE IN COMPLIANCE WITH CODES, RULES & REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION. THIS INCLUDES BUT IS NOT LIMITED TO THE: INTERNATIONAL BUILDING CODE 2018 (IBC 2018), 2020 BUILDING CODE OF NEW YORK STATE, 2020 EXISTING BUILDING CODE OF NYS WITH AMENDMENTS FROM INTERNATIONAL EXISTING BUILDING CODE 2018 (IEBC 2018), 2020 PLUMBING, MECHANICAL, FUEL GAS AND FIRE CODE OF NYS, 2020 ENERGY CONSERVATION CODE OF NYS WITH AMENDMENTS FROM INTERNATIONAL ENERGY CONSERVATION CODE 2018 (IECC 2018),OSHA GUIDELINES AND THE AMERICANS WITH DISABILITIES ACCESSIBILITY GUIDELINES (ADA)
3. GC SHALL CHECK & VERIFY IN FIELD ALL DIMS, NOTES & CONDITIONS SHOWN ON DWGS BEFORE ANY CONSTRUCTION WORK IS STARTED & SHALL NOTIFY ARCHITECT OF DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS BEFORE PROCEEDING. ALL WORK TO BE DONE IN ACCORDANCE WITH CODE, INCLUDING ADMINISTRATIVE ARTICLES & ALL OTHER REGULATIONS OF ALL OTHER AGENCIES HAVING JURISDICTION.
4. GC MUST COMPLY WITH ALL RULES AND REGULATIONS OF AGENCIES HAVING JURISDICTION. THIS COMPLIANCE INCLUDES, BUT IS NOT LIMITED TO, ALL CITY, STATE, AND FEDERAL CONSTRUCTION, SAFETY, SANITARY LAWS, STATUTES, CODES & ORDINANCES & BUILDING STANDARD SPECIFICATIONS. GENERAL CONTRACTOR SHALL SECURE & PAY FOR ALL REQ'D PERMITS & INSPECTIONS NECESSARY FOR PROPER EXECUTION, APPROVALS & COMPLETION OF WORK.
5. ALL DIMS ARE TO FINISH FACE UON.
6. DO NOT SCALE DWGS - WRITTEN DIMS GOVERN. LARGE SCALE DWGS GOVERN SMALL SCALE.
7. ALL PLAN DIMS ARE TO THE NEAREST 1/4".
8. GC IS REQ'D TO COORDINATE ALL WORK & DELIVERIES WITH BLDG MANAGEMENT & SECURITY.
9. ALL CORRESPONDENCE & PROJECT COMMUNICATION TO BE THROUGH ARCHITECT.
10. PREP ALL SURFACES AS REQ'D TO RECEIVE NEW FINISHES. INTERIOR FINISHES SHALL COMPLY WITH THE NY STATE BUILDING CODE.
11. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER & ACCEPTABLE CONSTRUCTION, INSTALLATION OR OPERATION OF ANY PART OF THE WORK AS DETERMINED BY THE ARCHITECT SHALL BE INCLUDED IN THE WORK THE SAME AS IF HEREIN SPECIFIED OR INDICATED.
12. FIRE PROTECTION TO COMPLY WITH SECTION CHAPTER 7 OF NYS BUILDING CODE.
13. FIRE RATED DOORS SHALL BEAR THE LABEL OF THE BOARD OF STANDARD AND APPEALS OR THE M.E.A. DIVISION.
14. PLUMBING FIXTURES SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS INCLUDING ADA GUIDELINES FOR FIXTURES AND INSTALLATION.
15. ALL SHUT-OFF VALVES SHALL BE ACCESSIBLE BY ACCESS PANEL.
16. PLUMBING FIXTURES SHALL BE INSTALLED & PLUMBED TO FULL WORKING ORDER.
17. GC TO PROVIDE BLOCKING AT ALL NECESSARY AREAS - INCLUDING AT GRAB BARS, EQUIPMENT, WALL MOUNTED VANITY UNITS AND SINKS, ACCESSORIES , FIXTURES AND APPLIANCES.
18. ALL ELECTRICAL WORK TO BE PERFORMED BY LICENSED CONTRACTORS.
19. 'PROVIDE' MEANS TO FURNISH & INSTALL. 'SUPPLIED BY OWNER' MEANS MAIN MATERIAL TO BE SUPPLIED BY OWNER AND CONTRACTOR IS TO INSTALL IT AS DIRECTED. 'NIC' MEANS NOT IN CONTRACT AND WILL BE FURNISHED & INSTALLED BY OTHERS.
20. NO CHANGE IN EGRESS, USE OR OCCUPANCY.
21. THE OVERLOADING OF FLOORS WITH BUILDING MATERIALS IS PROHIBITED.
22. CUTTING, TRENCHING, CHANNELING FLOOR OR CEILING, OR CORE DRILLING IS NOT PERMITTED. REVIEW WITH ARCHITECT WHERE NECESSARY.
23. GC MUST PROVIDE TWO (2) 10LB FIRE EXTINGUISHERS, AT EACH CONSTRUCTION SITE, DURING START OF DEMO & MUST BE KEPT IN PLAIN SIGHT & ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.
24. CLEANING:
    - MAINTAIN PREMISES & PUBLIC PROPERTIES FREE FROM ACCUMULATIONS OF WASTE, DEBRIS & RUBBISH, CAUSED BY OPERATIONS. DEBRIS SHALL BE REMOVED FROM JOB SITE DAILY. ALL DEBRIS TO BE STORED IN METAL, CLOSED CONTAINERS.
    - AT COMPLETION OF WORK, REMOVE TEMPORARY FACILITIES, WASTE MATERIALS, RUBBISH, ALL TOOLS, EQUIPMENT, MACHINERY & SURPLUS MATERIALS, & CLEAN ALL SIGHT EXPOSED SURFACES.
25. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK & VERIFY ALL DIMS AND EX'G CONDITIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH WORK. ANY WORK STARTED BEFORE CONSULTATION AND ACCEPTANCE BY THE ARCHITECT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBJECT TO CORRECTIONS BY HIM WITHOUT ADDITIONAL COMPENSATION.
26. DAMAGE CAUSED BY EXECUTION OF THIS CONTRACT, TO EXISTING STRUCTURE, PIPES, DUCTS, WINDOWS, WALLS, ROOFING ETC. SHALL BE REPAIRED TO ORIGINAL CONDITION OR REPLACED BY THE CONTRACTOR AT NO EXTRA CHARGE TO THE OWNER.
27. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND COMPLETION OF THE WORK WITH APPROVED MATERIALS.
28. BY SUBMITTING A PROPOSAL OR AGREEMENT TO PERFORM WORK, THE CONTRACTOR AGREES THAT HE IS SKILLED & EXPERIENCED IN THE USE & INTERPRETATION OF PLANS & SPECS. HE HAS CAREFULLY REVIEWED THE PLANS AND SPECS FOR THIS & HAS FOUND THEM TO BE FREE OF AMBIGUITIES AND SUFFICIENT FOR BID PURPOSES. FURTHER, HE HAS CAREFULLY EXAMINED THE SITE OF THE WORK & FROM HIS OWN OBSERVATIONS HAS SATISFIED HIMSELF AS TO THE NATURE & LOCATION OF THE WORK; THE CHARACTER, QUALITY, & QUANTITY OF MATERIALS; THE DIFFICULTIES LIKELY TO BE ENCOUNTERED, & OTHER ITEMS WHICH MAY AFFECT THE PERFORMANCE OF WORK.

DRAWING LIST

ARCHITECTURAL

A-001	TITLE, KEYPLANS, LOCATION MAP
A-002	NOTES, LEGEND, DRAWING LIST
A-003	ADA RESTROOM DETAILS
A-004	ADA DOOR DETAILS
A-101	SOCIAL SCIENCES PLANS
A-102	NATURAL SCIENCE PLANS
A-111	FLOOR TILE LAYOUTS
A-201	SOCIAL SCIENCES INTERIOR ELEVATIONS
A-202	NATURAL SCIENCE INTERIOR ELEVATIONS
A-501	DETAILS\
A-502	DETAILS
A-601	SCHEDULES

FIRE PROTECTION

F-001	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
F-101	FIRST FLOOR PLANS - SOCIAL SCIENCES - FIRE PROTECTION
F-701	FIRE PROTECTION DETAILS

PLUMBING

P-001	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
P-101	FIRST FLOOR PLANS - SOCIAL SCIENCES - PLUMBING
P-102	FIRST FLOOR PLANS - NATURAL SCIENCE - PLUMBING
P-501	PLUMBING RISER DIAGRAMS
P-601	PLUMBING SCHEDULES
P-701	PLUMBING DETAILS

MECHANICAL

M-001	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
M-101	FIRST FLOOR PLANS - SOCIAL SCIENCES - MECHANICAL
M-102	FIRST FLOOR PLANS - NATURAL SCIENCE - MECHANICAL
M-501	MECHANICAL RISER DIAGRAMS
M-601	MECHANICAL SCHEDULES
M-701	MECHANICAL DETAILS

ELECTRICAL

E-001	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
E-101	FIRST FLOOR PLANS - SOCIAL SCIENCES - ELECTRICAL
E-102	FIRST FLOOR PLANS - NATURAL SCIENCE - ELECTRICAL
E-103	FIRST FLOOR PLANS - NATURAL SCIENCE - ELECTRICAL
E-501	ELECTRICAL POWER RISER DIAGRAM
E-502	ELECTRICAL POWER RISER DIAGRAM
E-601	ELECTRICAL SCHEDULES
E-602	ELECTRICAL PANEL SCHEDULES
E-701	ELECTRICAL DETAILS
E-702	ELECTRICAL DETAILS

DRAWING SYMBOLS

Drawing No. / TITLE / SCALE — DRAWING TITLE

COLUMN LINES — ABC / 1 2 3

Drawing No. / X-### / Sheet No. — SECTION KEY

Drawing No. / Sheet No. — INTERIOR ELEVATION

ROOM NAME AND NUMBER (AS NEEDED)

SF — AREA OF SPACE

Drawing No. / # / A-XXX / Sheet No. — DETAIL KEY

DOOR NUMBER

WINDOW NUMBER

X — PARTITION TYPE

ACCESSORY NUMBER

REVISION NUMBER

FIRE EXTINGUISHER

DIMENSION

DATUM, CONTROL ELEVATION

MAIN ENTRY

ALTERNATE ENTRY

N — NORTH ARROW

EP — ELECTRICAL PANEL

E	DENOTES EX'G DEVICE TO REMAIN
N	DENOTES NEW DEVICE IN NEW LOCATION
R	DENOTES RELOCATION OF EX'G DEVICE
NE	DENOTES NEW DEVICE IN EXG' LOCATION
#"	HEIGHT OF DEVICE

RCP LEGEND

SURFACE MTD CEILING FIXTURE

RECESSED CLG FIXTURE

OVERSIZE PENDANT CEILING FIXTURE

PENDANT LED/FLUOR. & LENGTH

MOTION SENSOR SWITCH

$ — DENOTES SINGLE POLE SWITCH

CLG ELEVATION

RETURN AIR DIFFUSER

SPRINKLER

FIRE ALARM STROBE

BUILDING LEGEND

DENOTES EXG TO REMAIN

DENOTES EXTENT OF DEMOLITION

DENOTES NEW WALL CONSTRUCTION

DENOTES NEW PARTIAL HEIGHT WALL CONSTRUCTION

HIDDEN

OVERHEAD

FURNITURE

RESTROOM RENOVATION PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

735 Anderson Hill Rd.
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Rev	Date	Issue
	2/27/2020	Issue for SD Review
	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	6/30/2020	Pre-Bid Documents
	11/17/2020	Issue to Bid

Title

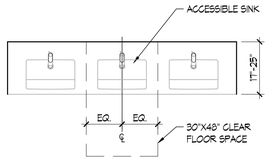
NOTES, LEGEND AND DRAWING LIST

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

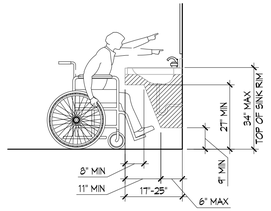
DOB Rev

A-002.00

2



ACCESSIBLE LAVATORY WITH MILLWORK



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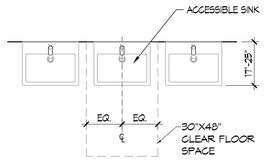

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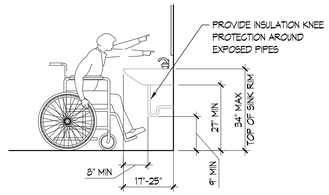

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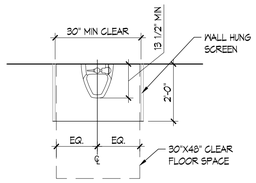

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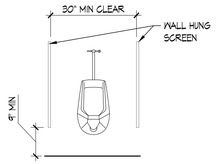

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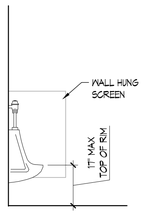

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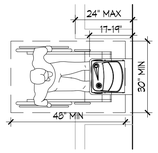

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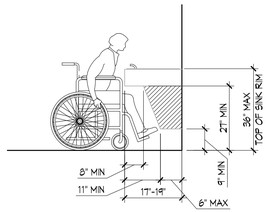

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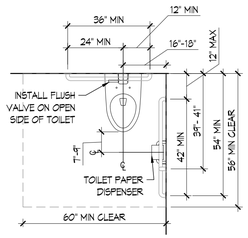
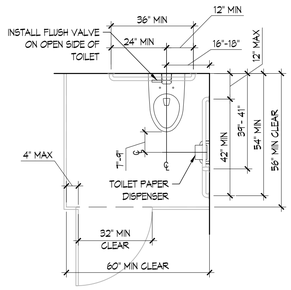
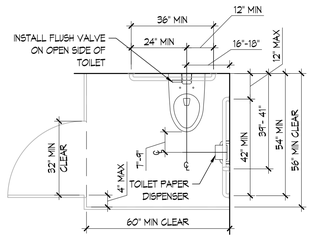


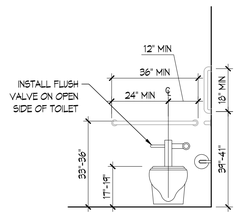
ACCESSIBLE WATER CLOSET



ACCESSIBLE WATER CLOSET (FRONT ENTRY)

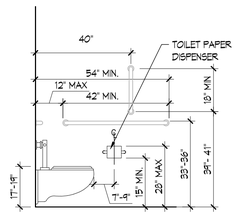


ACCESSIBLE WATER CLOSET (SIDE ENTRY)



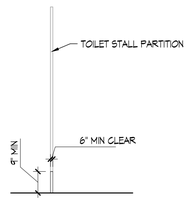
ACCESSIBLE WATER CLOSET

NOTE: ENSURE THAT TOP OF TOILET DIMENSION INCLUDES HEIGHT OF TOILET SEAT



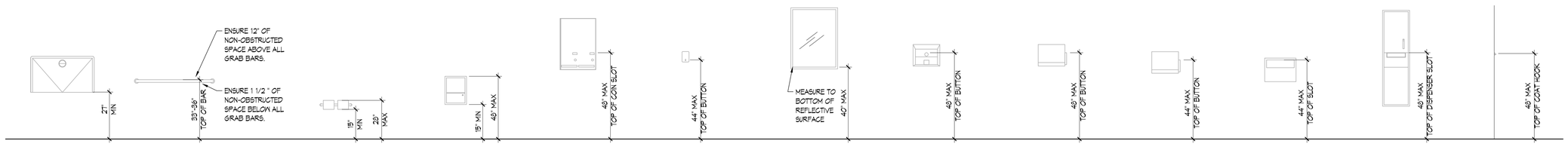
ACCESSIBLE WATER CLOSET

NOTE: ENSURE 12" OF NON-OBSTRUCTED SPACE ABOVE ALL GRAB BARS.
NOTE: ENSURE 1 1/2 " OF NON-OBSTRUCTED SPACE BELOW ALL GRAB BARS.



ACCESSIBLE STALL PARTITION TOE CLEARANCE

2 MOUNTING HEIGHTS AND LOCATIONS FOR PLUMBING FIXTURES
NOT TO SCALE



1 MOUNTING HEIGHTS AND LOCATIONS FOR RESTROOM ACCESSORIES
NOT TO SCALE

RESTROOM RENOVATION PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

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Rev	Date	Issue
	2/27/2020	Issue for SD Review
	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	6/30/2020	Pre-Bid Documents
	11/17/2020	Issue to Bid

Title

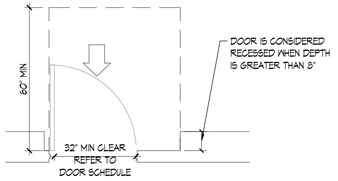
ADA RESTROOM DETAILS

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

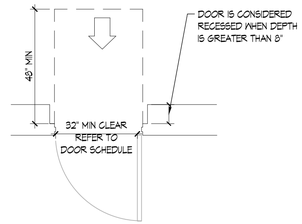
DOB Rev

A-003.00

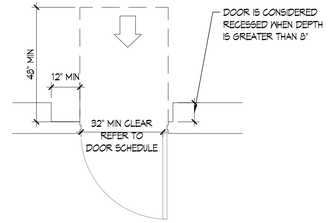
3



RECESSED DOOR
PULL SIDE, FRONT APPROACH
(WITH OR WITHOUT CLOSER)

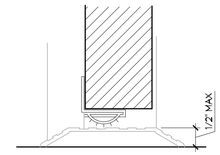


RECESSED DOOR
PUSH, FRONT APPROACH
(WITHOUT CLOSER)



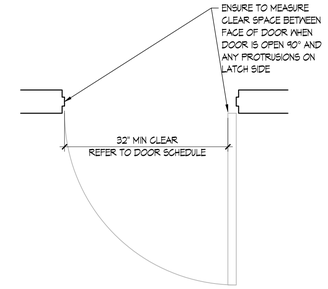
RECESSED DOOR
PUSH, FRONT APPROACH
(WITH CLOSER)

4 ADA RECESSED DOOR CLEARANCES
NOT TO SCALE



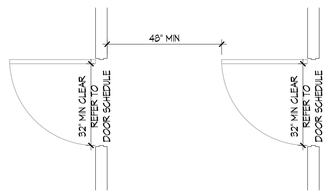
THRESHOLD

3 ADA THRESHOLD
NOT TO SCALE

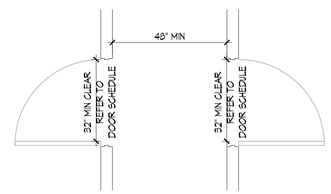


CLEARANCE THROUGH DOOR

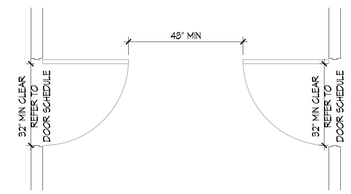
2 ADA DOOR WIDTH
NOT TO SCALE



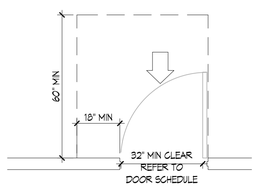
TWO DOORS IN SERIES CLEARANCES



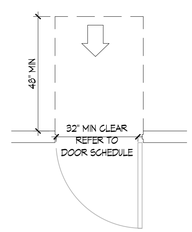
TWO DOORS IN SERIES CLEARANCES



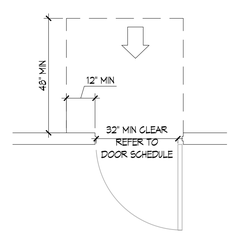
TWO DOORS IN SERIES CLEARANCES



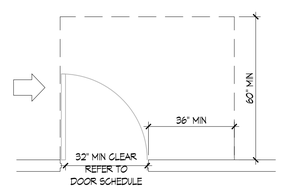
PULL SIDE, FRONT APPROACH
(WITH OR WITHOUT CLOSER)



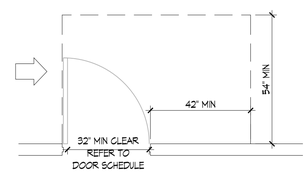
PUSH SIDE, FRONT APPROACH
(WITHOUT CLOSER)



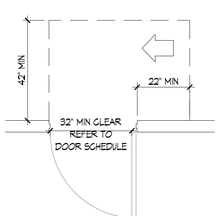
PUSH SIDE, FRONT APPROACH
(WITH CLOSER)



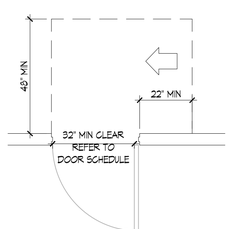
PULL SIDE, HINGE APPROACH - ALTERNATE 1
(WITH OR WITHOUT CLOSER)



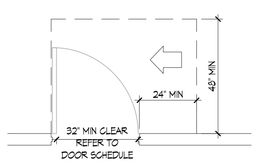
PULL SIDE, HINGE APPROACH - ALTERNATE 2
(WITH OR WITHOUT CLOSER)



PUSH SIDE, HINGE APPROACH
(WITHOUT CLOSER)



PUSH SIDE, HINGE APPROACH
(WITH CLOSER)



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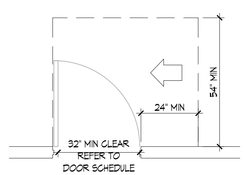
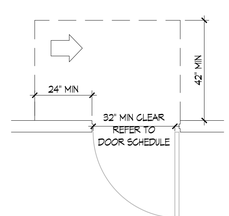
(WITHOUT CLOSER)



PULL SIDE, LATCH APPROACH
(WITH CLOSER)



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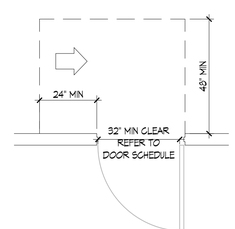
(WITHOUT CLOSER)



PUSH SIDE, LATCH APPROACH
(WITH CLOSER)

1 ADA DOOR CLEARANCES
NOT TO SCALE

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Title

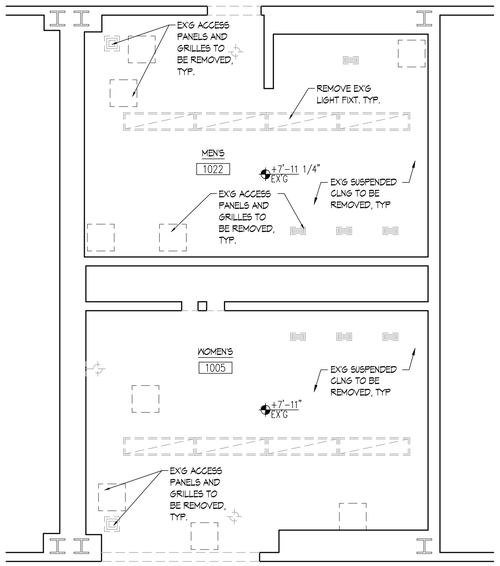
ADA DOOR DETAILS

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

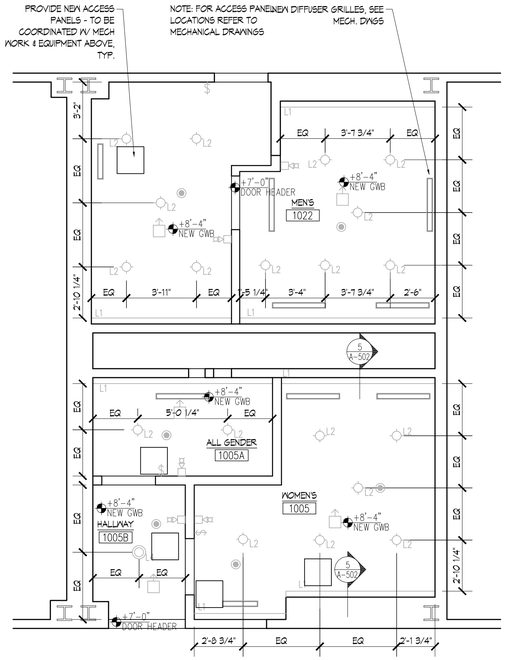
DOB Rev

A-004 .00

4



4 FIRST FLOOR DEMOLITION RCP
1/4" = 1'-0"



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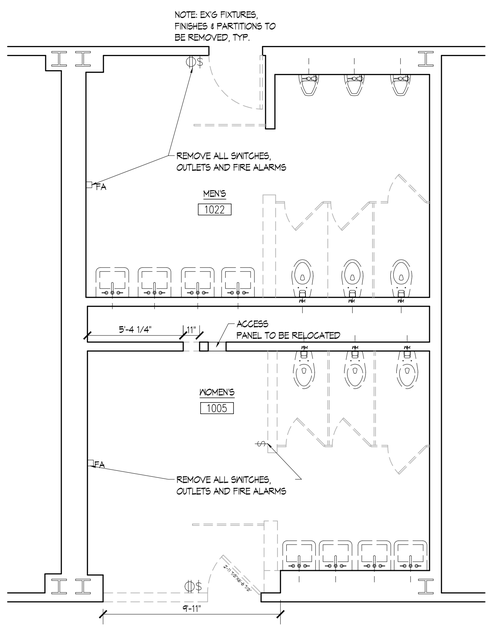
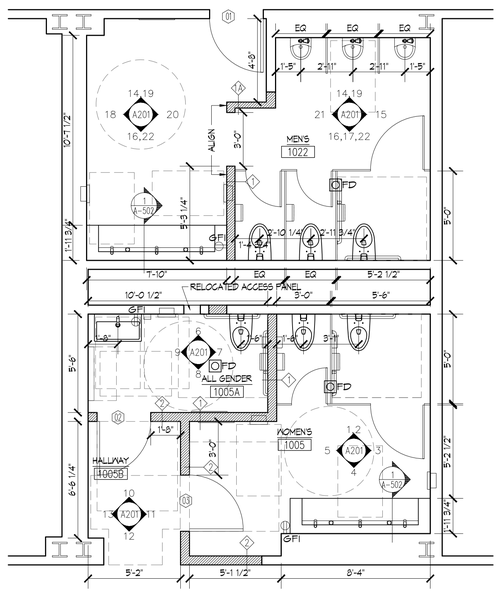
1/4" = 1'-0"



2 FIRST FLOOR DEMOLITION PLAN
1/4" = 1'-0"



1 FIRST FLOOR CONSTRUCTION PLAN
1/4" = 1'-0"

DEMOLITION PLAN NOTES

1. PROTECT ALL EXG CONDITIONS TO REMAIN.
2. SCOPE OF DEMO & REMOVAL WORK SHALL NOT BE LIMITED BY THESE DWGS BUT SHALL INCLUDE ALL WORK NECESSARY TO FACILITATE CONSTRUCTION.
3. GC TO REMOVE & LEGALLY DISPOSE OF ALL APPLIANCES, PLUMBING FIXTURES & MISC. CONSTR. DEBRIS SCHEDULED TO BE DEMOLISHED. CONTACT COLLEGE REPRESENTATIVE FOR RIGHT OF FIRST REFUSAL FOR ITEMS BEING REMOVED.
4. REMOVE WALLS, DOORS, TOILET PARTITIONS, ETC. AS INDICATED.
5. NOTIFY ARCHITECT IF FIXTURES OR DEVICES EXIST WHICH ARE NOT NOTED ON THE PLAN.
6. GC TO NOTIFY ARCHITECT OF ALL RISERS, & PIPING EXPOSED DURING DEMO.
7. ALL DEMO TO BE DONE W/ MINIMAL IMPACT ON WORK ENVIRONMENT. AREAS TO BE LEFT CLEAN & SAFE AT END OF EACH SHIFT.
8. DEMO OF LOAD-BEARING WALLS IS PROHIBITED.
9. CONTRACTOR TO SEAL ALL VENTS DURING DEMO.
10. ALL PIPING NOT BEING REUSED, TO BE CAPPED AT RISER.
11. NO JACKHAMMERS TO BE USED ON THIS PROJECT.
12. NO CUTTING OR CHANNELING OF BUILDING STRUCTURE IS PERMITTED FOR ANY WORK.
13. ALL TILES & WALL COVERING ON EXG WALLS TO BE REMOVED TO EXPOSE CMU, PLASTER WALLS, TYP.
14. REMOVE LT FIXTURES AS NOTED.
15. ASBESTOS REMOVAL TO BE COORDINATED WITH SUNY. CONTRACTOR IS RESPONSIBLE FOR ASBESTOS ABATEMENT, SUNY TO PROVIDE ABATEMENT PLANS & TEST RESULTS.
16. REMOVE ALL LT SWITCHES, OUTLETS & FIRE ALARMS, & INSTALL NEW AT EXG & NEW LOCATIONS AS PER ELECTRICAL PLANS. ALL ELECTRICAL OUTLETS TO BE 15" AFF U.O.N.
17. IF GAS SERVICE IS PRESENT IN A WALL SCHEDULED TO BE DEMO'D, THE EXG RISERS MAY NOT BE ALTERED IN ANY WAY.
18. ALL EXG FINISHED FLOORING TO BE REMOVED DOWN TO SLAB.

CONSTRUCTION PLAN NOTES

1. ALL EXPOSED, EXG SURFACES, INCLUDING WALLS & CEILINGS, SHOULD BE SKIM COATED TO MATCH SIMILAR QUALITY OF NEW PARTITIONS.
2. REFER TO PLUMBING DRAWINGS & SPECS FOR REQ'D PIPING & CONNECTION MATERIALS & SCOPE OF WORK.
3. BURY ALL WIRING & PATCH EXG SURFACES WHICH HAVE BEEN CHANNELED FOR ELEC. OR OTHER INVASIVE WORK. PREPARE & PAINT/TILE WALLS ACCORDING TO FINISH SCHED.
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5. ALL RATED PARTITIONS SHALL EXTEND TO THE SLAB ABOVE. CEILING HEIGHT PARTITIONS SHALL BE BRACED TO THE SLAB ABOVE.
6. PATCH & REPAIR ANY AREAS DAMAGED BY LEAKAGE PRIOR TO NEW FINISHES & CONSTRUCTION.
7. REFER TO PLUMBING DWGS & SPECS FOR REQ'D PIPING & CONNECTIONS, MATERIALS & SCOPE OF WORK.
8. GC TO PROVIDE FIRESTOPPING AT ALL NEW & EXG PENETRATIONS TO REMAIN @ RATED PARTITIONS. ALL RATED PARTITION & SHAFT WALLS TO BE RESTORED.
9. SCRAPE CLEAN & REPAIR WALLS, CEILINGS & FLOORS WITHIN SCOPE OF WORK AREA. PREP FOR NEW FINISHES & PAINT PER SPEC REQUIREMENTS. COLORS TO BE APPROVED BY ARCH.
10. ENSURE A SMOOTH & EVEN SUBSURFACE FOR APPLICATION OF NEW FINISHES.
11. OUTLETS TO BE MOUNTED AT 15" A.F.F. UNLESS OTHERWISE NOTED FOR CONVENIENCE OUTLETS. REFER TO ELEC. DWGS FOR NEW OUTLET LOCATIONS.
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13. IF NEW RESTROOMS REQUIRE WORK ON FLOOR BELOW TO GET TO PLUMBING, DISTURBED SPACES TO BE RESTORED TO ORIGINAL CONDITION AT CONCLUSION OF WORK.
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5. INSTALL NEW GWB CEILING AND ALL ASSOCIATED COMPONENTS INCLUDING LIGHTING FIXTURES, DIFFUSERS, ACCESS HATCHES, FIRE ALARM DEVICES, ETC. COORDINATE WITH ELECTRICAL, MECHANICAL AND FIRE PROTECTION.
6. INSTALL CEILING MOUNTED OCCUPANCY SENSORS, COORDINATE WITH ELECTRICAL.

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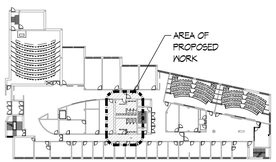
Keyplan

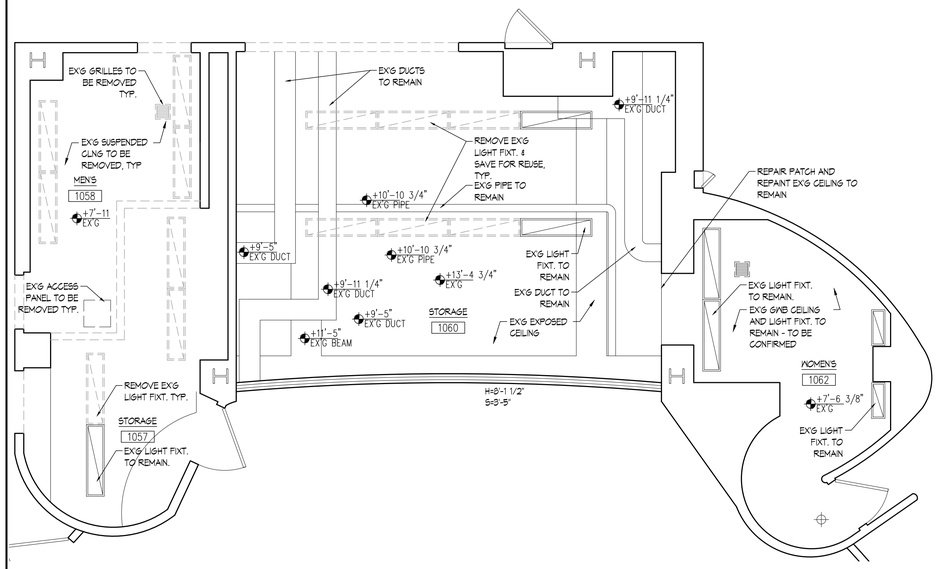


Title

PLANS
SOCIAL SCIENCES

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

DOB Rev
A-101.00
5



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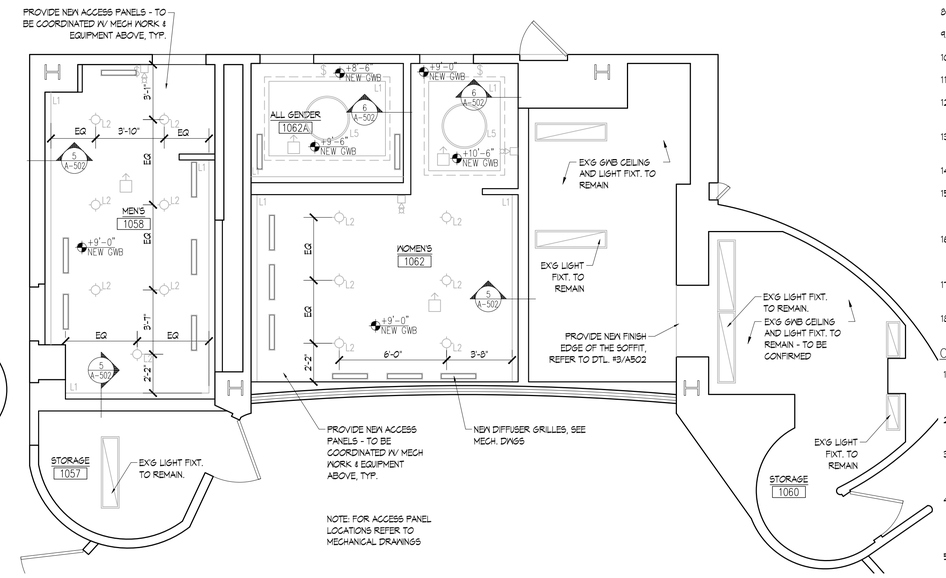
1/4" = 1'-0"



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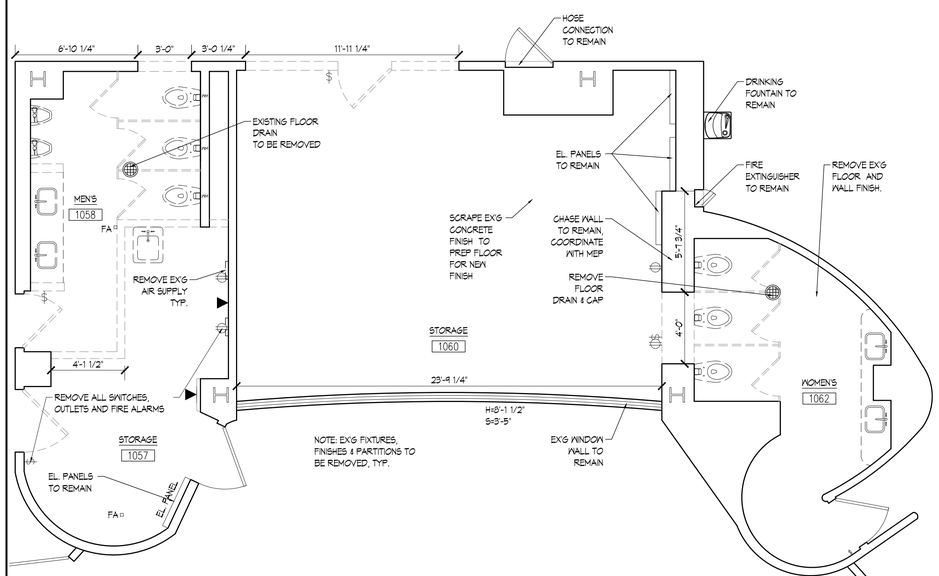

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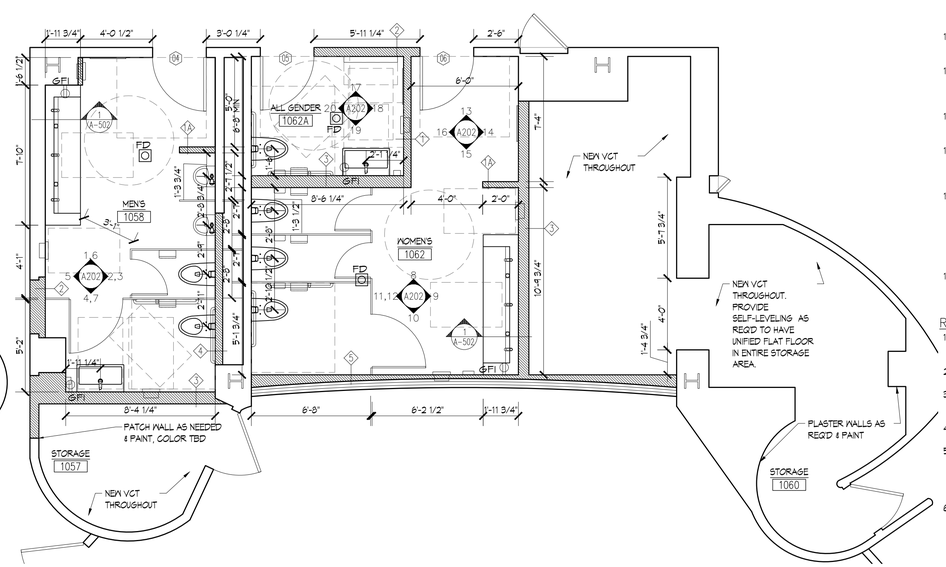

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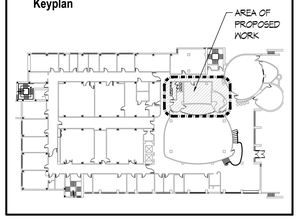
Keyplan

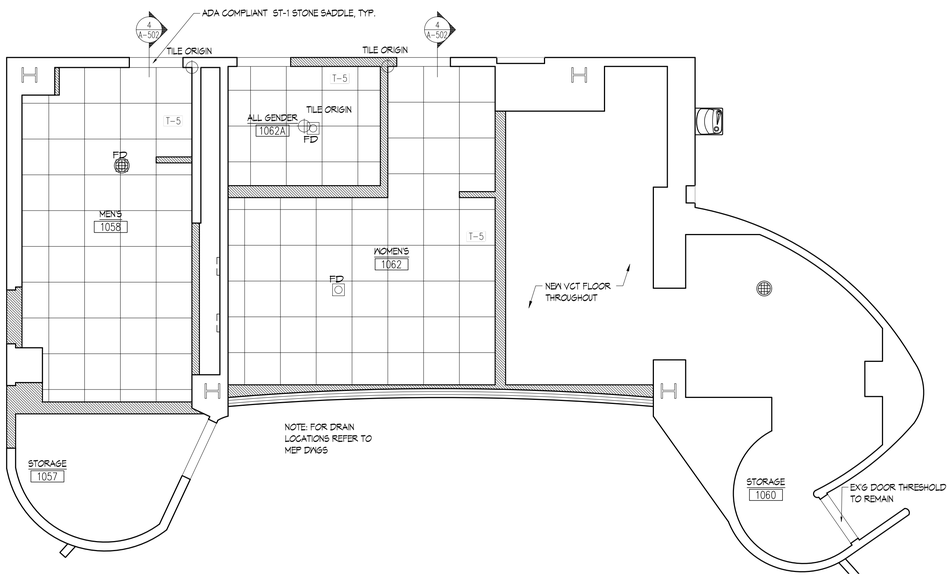


Title

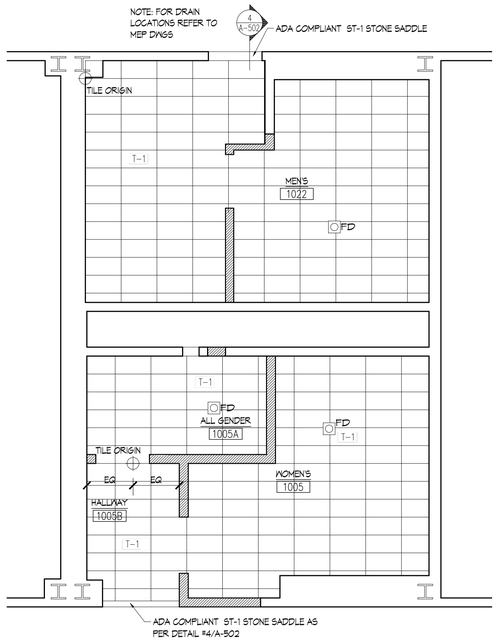
PLANS
NATURAL SCIENCE

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

DOB Rev
A-102.00
6



2 NATURAL SCIENCE FIRST FLOOR
1/4" = 1'-0"



1 SOCIAL SCIENCES FIRST FLOOR
1/4" = 1'-0"

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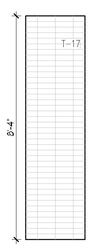
Title

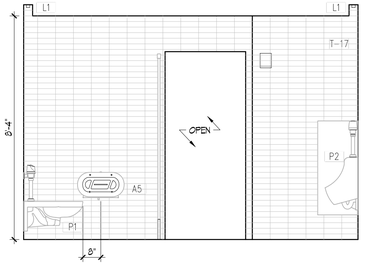
FLOOR FINISH PLANS

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

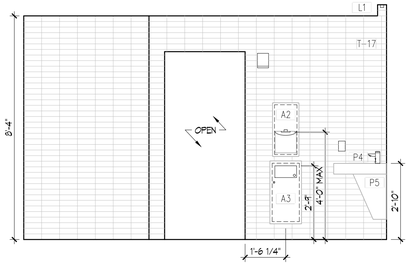
DOB Rev
A-111.00
7



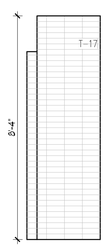
22 MEN'S 1022 EAST
3/8" = 1'-0"



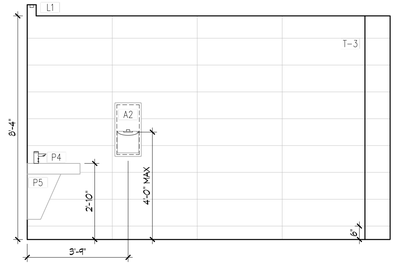
21 MEN'S 1022 SOUTH
3/8" = 1'-0"



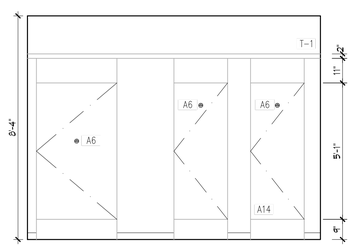
20 MEN'S 1022 NORTH
3/8" = 1'-0"



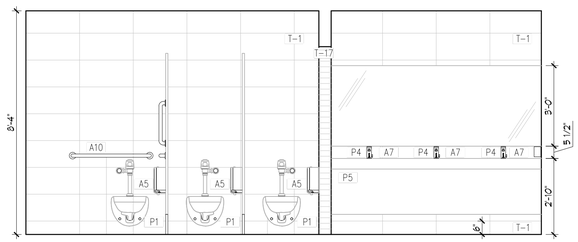
19 MEN'S 1022 WEST
3/8" = 1'-0"



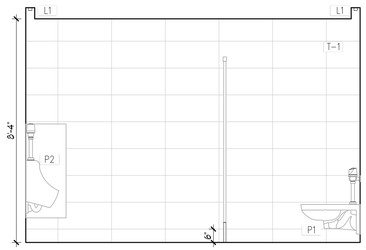
18 MEN'S 1022 SOUTH
3/8" = 1'-0"



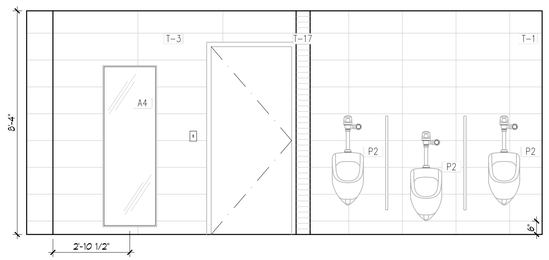
17 MEN'S 1022 EAST
3/8" = 1'-0"



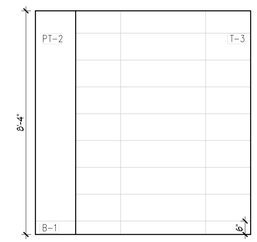
16 MEN'S 1022 EAST
3/8" = 1'-0"



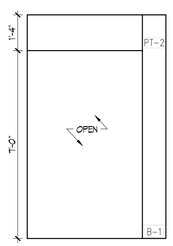
15 MEN'S 1022 NORTH
3/8" = 1'-0"



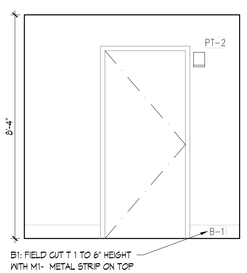
14 MEN'S 1022 WEST
3/8" = 1'-0"



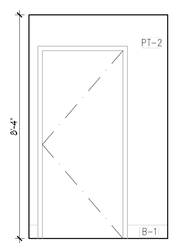
13 HALLWAY 1005B SOUTH
3/8" = 1'-0"



12 HALLWAY 1005B EAST
3/8" = 1'-0"



11 HALLWAY 1005B NORTH
3/8" = 1'-0"



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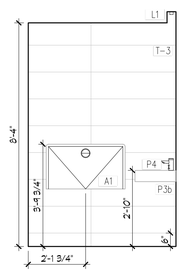
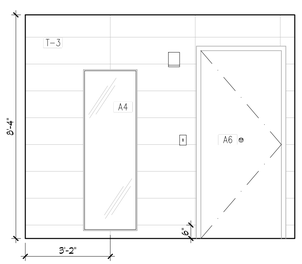
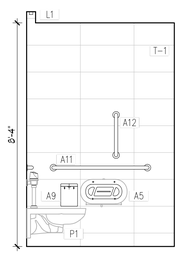
3/8" = 1'-0"



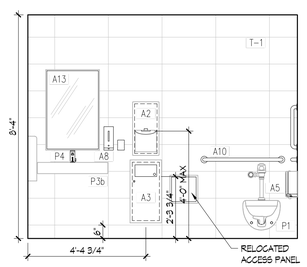
9 ALL GENDER 1005A SOUTH
3/8" = 1'-0"



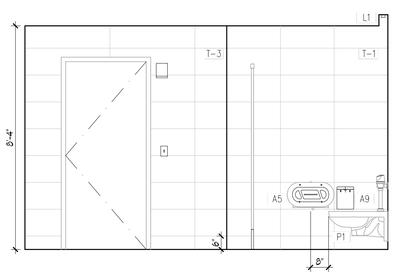
8 ALL GENDER 1005A EAST
3/8" = 1'-0"



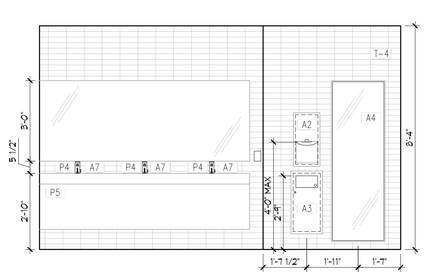
7 ALL GENDER 1005A NORTH
3/8" = 1'-0"



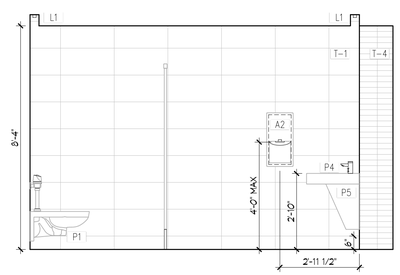
6 ALL GENDER 1005A WEST
3/8" = 1'-0"



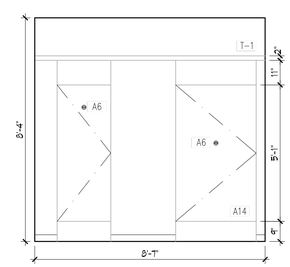
5 WOMEN'S 1005 SOUTH
3/8" = 1'-0"



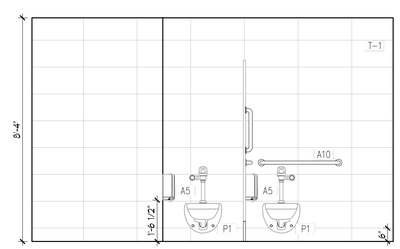
4 WOMEN'S 1005 EAST
3/8" = 1'-0"



3 WOMEN'S 1005 NORTH
3/8" = 1'-0"



2 WOMEN'S 1005 WEST
3/8" = 1'-0"



1 WOMEN'S 1005 WEST
3/8" = 1'-0"

RESTROOM RENOVATION PURCHASE COLLEGE

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735 Anderson Hill Rd.
Purchase, NY 10577

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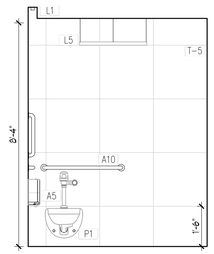
Rev	Date	Issue
	2/27/2020	Issue for SD Review
	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	6/30/2020	Pre-Bid Documents
	11/17/2020	Issue to Bid

Title

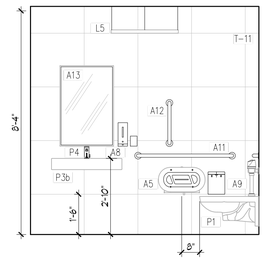
INTERIOR ELEVATIONS SOCIAL SCIENCES

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

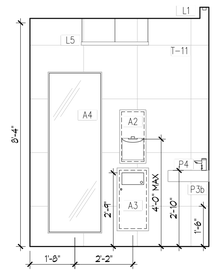
DOB Rev
A-201.00
8



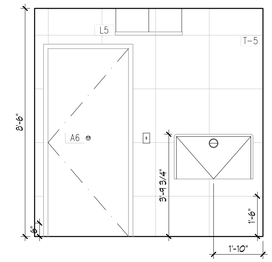
20 ALL GENDER 1062A SOUTH
3/8" = 1'-0"



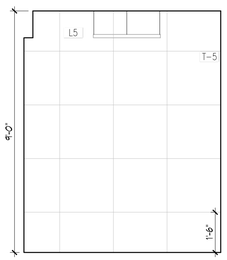
19 ALL GENDER 1062A EAST
3/8" = 1'-0"



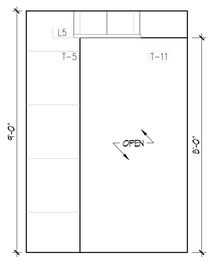
18 ALL GENDER 1062A NORTH
3/8" = 1'-0"



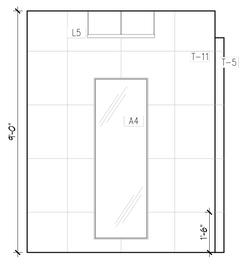
17 ALL GENDER 1062A WEST
3/8" = 1'-0"



16 WOMEN'S 1062 SOUTH
3/8" = 1'-0"



15 WOMEN'S 1062 EAST
3/8" = 1'-0"



14 WOMEN'S 1062 NORTH
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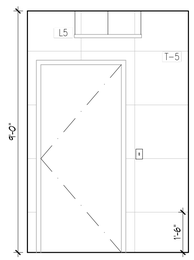
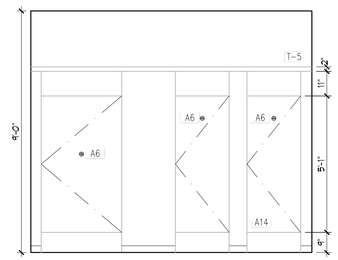
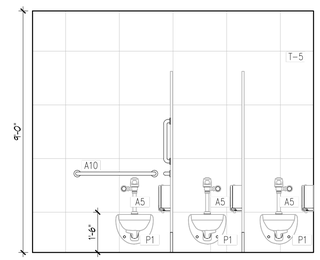


13 WOMEN'S 1062 WEST
3/8" = 1'-0"



12 WOMEN'S 1062 SOUTH
3/8" = 1'-0"



11 WOMEN'S 1062 SOUTH
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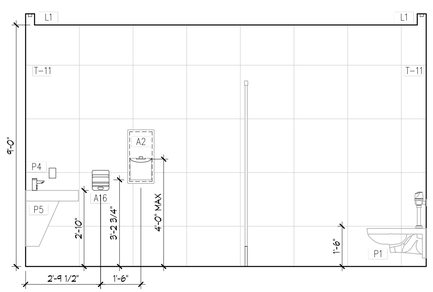

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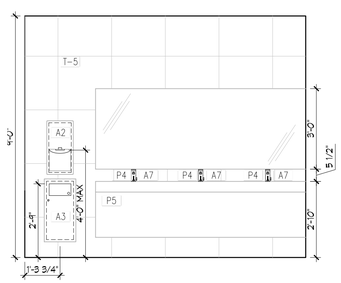
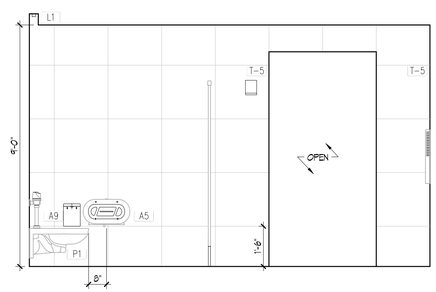
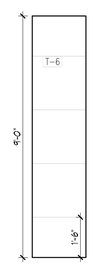


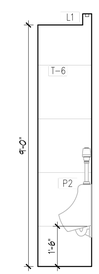
9 WOMEN'S 1062 NORTH
3/8" = 1'-0"



8 WOMEN'S 1062 WEST
3/8" = 1'-0"



7 MEN'S 1058 EAST
3/8" = 1'-0"



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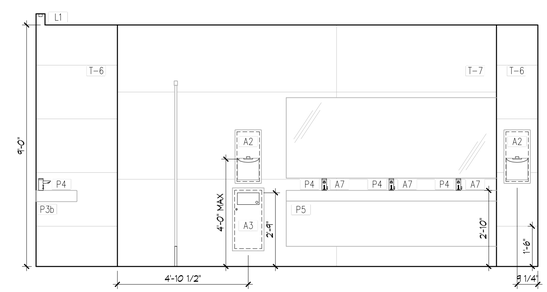

5 MEN'S 1058 SOUTH
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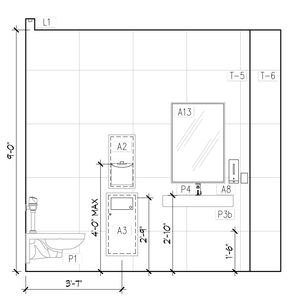
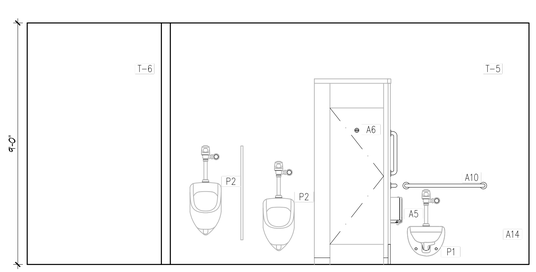
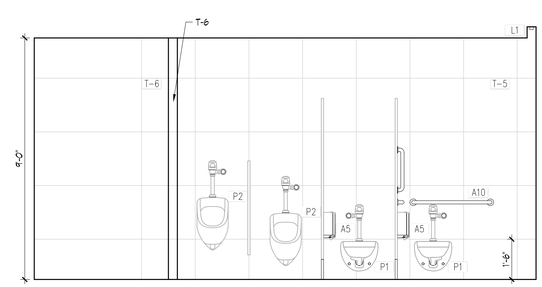


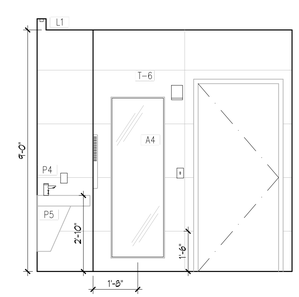
4 MEN'S 1058 EAST
3/8" = 1'-0"



3 MEN'S 1058 NORTH
3/8" = 1'-0"



2 MEN'S 1058 NORTH
3/8" = 1'-0"



1 MEN'S 1058 WEST
3/8" = 1'-0"

RESTROOM RENOVATION
PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

735 Anderson Hill Rd.
Purchase, NY 10577

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Ronnette Riley *Architect*

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MEP Engineer

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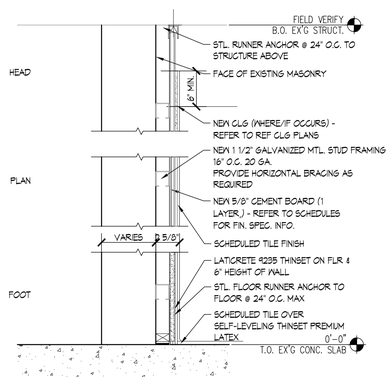
Rev	Date	Issue
	2/27/2020	Issue for SD Review
	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	6/30/2020	Pre-Bid Documents
	11/17/2020	Issue to Bid

Title

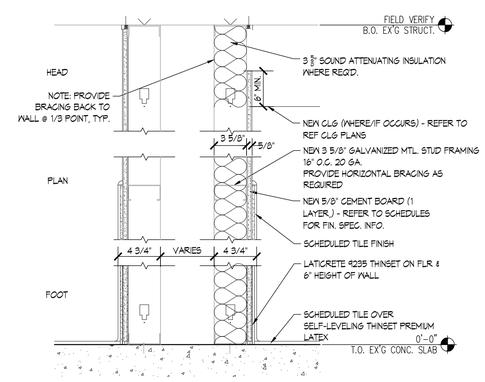
INTERIOR ELEVATIONS
NATURAL SCIENCE

Date	01-16-2020
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

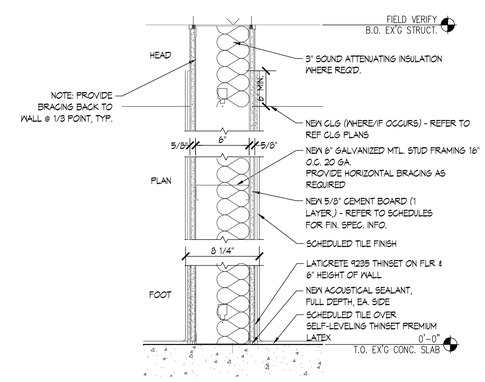
DOB Rev
A-202.00
9



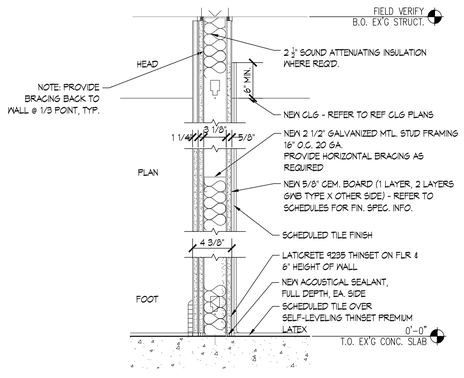
5 TYP. WALL FURRING
1-1/2"=1'-0"
NON FIRE-RATED



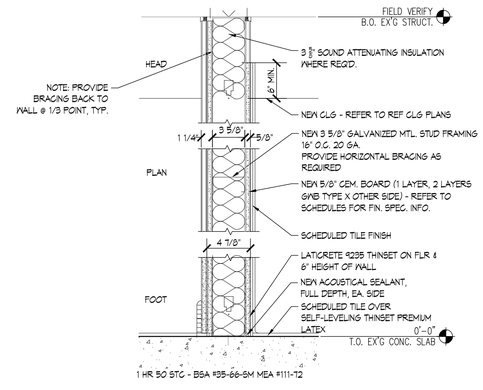
4 PLUMBING WALL
1-1/2"=1'-0"
NON FIRE-RATED



3 PLUMBING WALL
1-1/2"=1'-0"
NON FIRE-RATED

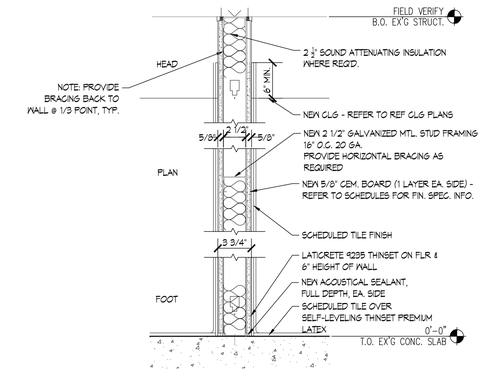


2A TYP. WALL
1-1/2"=1'-0"
1 HR FIRE-RATED

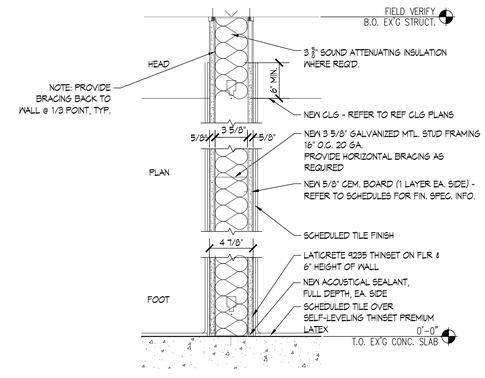


1 HR 50 STC - BSA #35-66-SM MEA #111-72

2 TYP. WALL @ CORRIDOR
1-1/2"=1'-0"
1 HR FIRE-RATED



1A TYP. WALL
1-1/2"=1'-0"
NON FIRE-RATED



1 TYP. WALL
1-1/2"=1'-0"
NON FIRE-RATED

1 TYPICAL PARTITION WALLS
1 1/2" = 1'-0"

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Title

DETAILS

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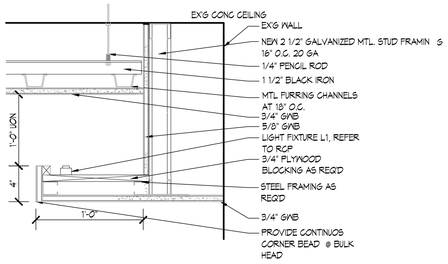
Project No.	1944
Drawing By	SJ
CHK By	SN
Scale	AS NOTED

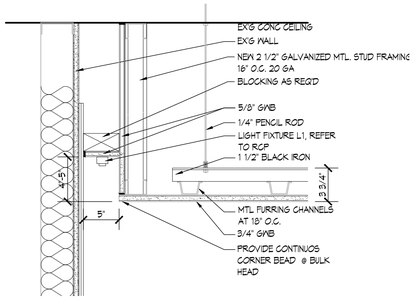
DOB Rev

A-501.00

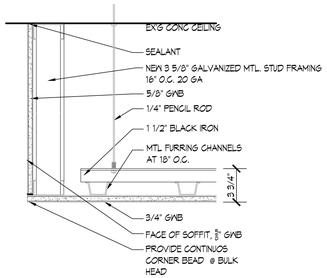
10



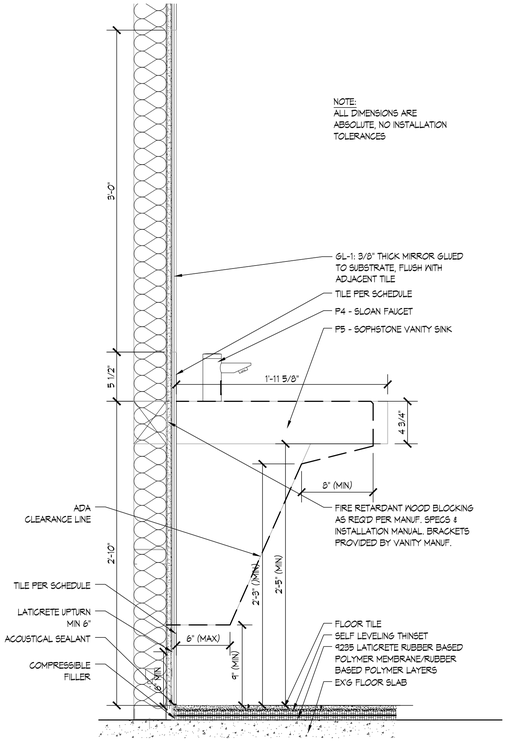
6 CENTRAL CEILING COVE
1 1/2" = 1'-0"



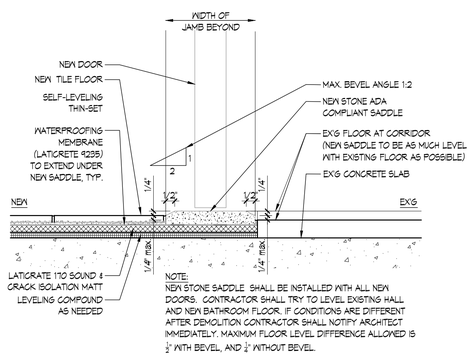
5 CEILING COVE
1 1/2" = 1'-0"



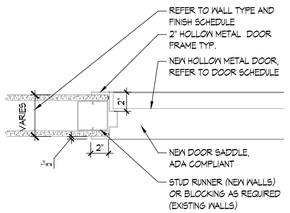
3 SUSPENDED CEILING
1 1/2" = 1'-0"



1 TYP WET FLOOR/WALL FINISH / VANITY / MIRROR
1 1/2" = 1'-0"



4 ADA FLOOR SADDLE
3" = 1'-0"



2 DOOR JAMB
1 1/2" = 1'-0"

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PLUMBING SCHEDULE

TAG	ITEM	MANUF	STYLE	MODEL	DIM/DESCRIP	FIN	QTY	NOTES
P1	WALL MOUNTED TOILET	SLOAN	---	ST-2459	---	WHITE	12	
P1a	SOLAR POWERED DUAL FLUSH	SLOAN	----	8111-1.6/1.1	---	---	12	
P2	URINAL/FLUSH VALVE COMBO	SLOAN	----	WEUS-1000.1201	---	---	5	
P3a	WALL MOUNTED SINK	DURAVIT	----	VERO	24" WIDE	---	NOT USED	
P3b	WALL MOUNTED SINK	DURAVIT	----	VERO	31" WIDE	---	3	
P3c	WALL MOUNTED SINK	DURAVIT	----	VERO	20" WIDE	---	NOT USED	
P4	FAUCET	SLOAN	----	OPTIMA SOLIS EAF-2751	---	CHROME	15	
P5	VANITY SINK	SOPHSTONE	----	SOPH-ST94	94"X23 5/8"	COTTON & PEARL	4	
P6	MOP SINK	FIAT PRODUCTS	----	MSB 24X24	24X24"	---	NOT USED	
P7	MOP SINK WALL MOUNTED FAUCET	FIAT PRODUCTS	----	FIAT 830-A4	---	---	NOT USED	
P8	DRINKING FOUNTAIN	ELKAY	----	LZS8WSLP	---	---	NOT USED	

ACCESSORY SCHEDULE

TAG	ITEM	MANUF	STYLE	MODEL	DIM/DESCRIP	FIN	QTY	NOTES
A1	BABY CHANGING STATION	KOALA	---	KB110-SSWM	---	SS	2	
A2	HAND DRYER	BOBRICK	---	B-3125	---	SS	10	
A3	RECESSED TRASH RECEPTACLE	BOBRICK	---	B-35633	---	SS	6	
A4	FULL LENGTH MIRROR	BOBRICK	---	B-290	24"X72"	SS	6	
A5	TOILET PAPER HOLDER	BOBRICK	---	B-2892	---	SS	12	
A6	COAT HOOK	BOBRICK	---	B-548	---	SS	12	
A7	AUTOMATIC SOAP DISPENSER	SLOAN	SURFACE MOUNT	OPTIMA ESD400	---	---	12	
A8	AUTOMATIC SOAP DISPENSER	BOBRICK	WALL MOUNT	B-2013	---	---	3	
A9	SANITARY NAPKIN DISPOSAL	BOBRICK	---	B-270	---	SS	7	WOMEN'S/ALL GENDER ONLY
A10	GRAB BAR	BOBRICK	---	B-5806	36"	SS	6	
A11	GRAB BAR	BOBRICK	---	B-5806	42"	SS	6	
A12	GRAB BAR	BOBRICK	---	B-5806	18"	SS	6	
A13	MIRROR	BOBRICK	---	B-290	24"X36"	SS	3	
A14	TOILET PARTITIONS	BOBRICK	OVERHEAD BRACED	HPL	---	TBD	---	SEE DRAWINGS
A15	MIRROR	BOBRICK	---	B-290	18"X36"	SS	NOT USED	
A16	KLUTCH HOLDER/HOOK	BOBRICK	---	B-695	---	SS	1	

NOTES:
- CONTRACTOR SHALL VERIFY ALL COUNTS & LOCATIONS SO THAT EACH BATHROOM IS PROVIDED WITH REQUISITE NUMBER OF ACCESSORIES TO SUIT FIXTURES & LAYOUT.
- TOILET COMPARTMENT/PARTITIONS TO BE FABRICATED AFTER FIELD VERIFICATION ACCOUNTING FOR INSTALLED FINISHES & APPROVED SHOP DRAWINGS.
- INSTALLATION OF ACCESSORIES TO FOLLOW ADA STANDARDS AS PER SHEET A-003

LIGHT SCHEDULE

TAG	TYPE	MFR	MODEL	FIN	WATTAGE	LAMP	QTY	NOTES
L1	TAPE LIGHT	LUCETTA LIGHTING	CELESTE LINEAR	TBD	1.8W/FT	LED	148 FT	QTY IS IN LINEAR FEET
L2	4" RECESSED ROUND	CONTRASTE LIGHTING	UR4C	WHITE	10W	LED	33	
L3	PENDANT	---	---	---	---	LED	2	REUSED FROM NATURAL SCIENCE BUILDING
L4	FLUSH MOUNT ROUND	TANGO LIGHTING	BOOP 14 1/2"	WHITE	23W	LED	1	
L5	OVERSIZE PENDANT	YLIGHTING	DISCOVERY LED	SS	27W	LED	2	

FINISH SCHEDULE

				ELEVATIONS																					
ROOM #	ROOM	FLOOR	BASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	CLNG	NOTES
SS 1005	WOMEN'S	T-1	--	T-1	T-1	T-1	T-4	T-1 T-3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	PT-1	
SS 1005A	ALL GENDER	T-1	--	--	--	--	--	--	T-1	T-1	T-3	T-3	--	--	--	--	--	--	--	--	--	--	--	--	--	PT-1	
SS 1005B	HALLWAY	T-1	B-1	--	--	--	--	--	--	--	--	--	PT-2	PT-2	PT-2	PT-2 T-3	--	--	--	--	--	--	--	--	--	PT-1	
SS 1022	MEN'S	T-1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	T-1, T-3 T-17	T-1	T-1 T-17	T-1	T-3	T-17	T-17	T-17	T-17	PT-1	
NS 1058	MEN'S	T-5	--	T-6	T-5 T-6	T-5 T-6	T-5 T-6	T-6 T-7	T-6	T-6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	PT-1	
NS 1062	WOMEN'S	T-5	--	--	--	--	--	--	--	--	T-5	T-5	T-11	T-5	T-5	T-5	T-11	T-5	T-6	--	--	--	--	--	--	PT-1	
NS 1062A	ALL GENDER	T-5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	T-5	T-11	T-11	T-5	--	--	PT-1	
NS 1051	STORAGE	VCT	VCT	PT-2	PT-2	PT-2	PT-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	PT-1	
NS 1060	STORAGE	VCT	VCT	PT-2	PT-2	PT-2	PT-2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	PT-1	

DOOR SCHEDULE

LOCATION			DOOR								FRAME				THRESHOLD		HWR	
MARK	FROM	TO	TYPE	WIDTH	HEIGHT	THK	FIRE RATING	MAT	FIN	HEAD	JAMB	MAT	FIN	MAT	DTL	SET	COMMENTS
01	MAIN CORR.	1022	B	3'-0"	7'-0"	1 3/4"	45 MIN	MTL	PT-3	---	---	MTL	PT-3	ST-1	7/A-501	1	LOUVER SIZE 18"X12"
02	1005B	1005A	C	3'-0"	7'-0"	1 3/4"	45 MIN	MTL	PT-3	---	---	MTL	PT-3	---	---	2	NO SADDLE, NEW FLOOR BOTH SIDES OF DOOR.
03	1005B	1005B	B	3'-0"	7'-0"	1 3/4"	45 MIN	MTL	PT-3	---	---	MTL	PT-3	---	---	1	NO SADDLE, NEW FLOOR BOTH SIDES OF DOOR, LOUVER SIZE 18"X12"
04	MAIN CORR.	1058	A	3'-0"	7'-0"	1 3/4"	45 MIN	MTL	PT-3	---	---	MTL	PT-3	ST-1	7/A-501	1	
05	MAIN CORR.	1062A	A	3'-0"	7'-0"	1 3/4"	45 MIN	MTL	PT-3	---	---	MTL	PT-3	ST-1	7/A-501	2	
06	MAIN CORR.	1062	A	3'-0"	7'-0"	1 3/4"	45 MIN	MTL	PT-3	---	---	MTL	PT-3	ST-1	7/A-501	1	

NOTES:
ALL DOORS TO RECEIVE METAL KICK PLATES

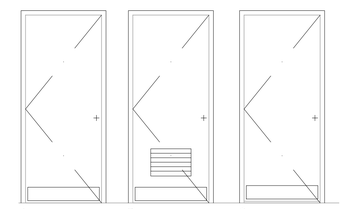
DOOR LEGEND:

A NEW METAL DOOR & FRAME
COUNT: 3
B NEW METAL LOUVERED DOOR & FRAME
COUNT: 2
C NEW METAL DOOR & FRAME, DOOR UNDERCUT 3/4"
COUNT: 1

HARDWARE LEGEND:

1 PASSAGE
COUNT: 4
2 PRIVACY
COUNT: 2
3 LOCK KEY
COUNT: NOT USED HERE

NOTES:
FOR DOORS AND HARDWARE DETAILS
REFER TO SPECIFICATIONS, TYP.



A — MTL DOOR & FRAME
B — MTL LOUVERED DOOR & FRAME
C — MTL DOOR & FRAME UNDERCUT 3/4"

1 DOOR TYPES
3/8" = 1'-0"

FINISH LEGEND

STONE:
ST-1 DOOR SADDLE
CAESARSTONE #2030 HAZE, HONED FINISH

TILE:
T-1 NEMO TILE BUILD, GRAY, 12"X24"
T-2 NOT USED
T-3 NEMO TILE BUILD, EFFECT, GRAY, 12"X36"
T-4 NEMO TILE CADENCE, JADE 2 1/2"X9"
T-5 MIRAGE LEMMY, 05 AFTERGLOW 24"X24"
~~T-5ALT NEMO TILE AREA, OFF WHITE, 12"X24"~~
T-6 MIRAGE LEMMY, 01 INDIO 24"X48"
T-7 NEMO TILE PORCELAIN SLAB FUSION, IRIS NATURAL 59"X95"
T-8 MIRAGE LEMMY, 01 PALLADIUM 24"X24" - NOT USED HERE
T-9 TAU CERAMICA, METAL, SEAGREEN - 24"X48"NOT USED HERE
T-10 NEMO TILE CADENCE, PINOT 2 1/2"X9" - NOT USED HERE
T-11 ARTISTIC TILE, OXO VERDIGRIS, 24"X24"
T-12 MIRAGE LEMMY, 02 NIMBUS 24"X24" - NOT USED HERE
T-13 TAU CERAMICA, METAL, TITANIUM 24"X48" - NOT USED HERE
T-14 NEMO TILE CADENCE, PINOT 2 1/2"X9" - NOT USED HERE
T-15 MIRAGE LEMMY, 05 AFTERGLOW 24"X24" - NOT USED HERE
T-16 TAU CERAMICA, METAL, SILVER 24"X48" - NOT USED HERE
T-17 NEMO TILE CADENCE, ROSE 2 1/2"X9"
T-20 NEMO TILE VERVE, CEMENT GLAY 12"X24" - NOT USED HERE

METAL:
M-1 ANI- 100 SCHLUTER JOLLY (OUTSIDE CORNERS AND EDGES WHERE REQUIRED, TOP OF THE T1 FIELD CUT FLOOR BASE AND MISC. EDEGES REQUIRED
FINISH: ST. STEEL

PAINT:
PT-1 BENJAMIN MOORE, DECORATOR'S WHITE, FLAT: CLG TYP.
PT-2 BENJAMIN MOORE, COLOR TBD, SATIN: WALL TYP.
PT-3 BENJAMIN MOORE, CHINA WHITE, SEMI-GLOSS: CASING TYP.

MISCELLANEOUS

BASE:
B-1: T-1 WALL TILE FILED CUT TO 6" HEIGHT, WITH M-1 SCHLUTER ON TOP
VCT: VINYL COMPOSITION TILE, TO MATCH SUNY STANDARD, COLOR TBD
GL-1: 3/8" THICK MIRROR, GLUED DIRECTLY TO SUBSTRATE

FINISH NOTES

1. TILE LAYOUTS TO BE CONFIRMED AFTER CONSTRUCTION AND VERIFIED WITH ARCHITECT. NO LESS THAN HALF TILE AT EDGES AND CORNERS UNLESS PREVIOUSLY CONFIRMED BY ARCHITECT, TYP.

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GENERAL FIRE PROTECTION NOTES

1. AUTOMATIC SUPERVISED SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED THROUGHOUT THE SCOPE OF WORK AREA IN ACCORDANCE WITH THE CODES AND STANDARDS LISTED BELOW.
2. SPRINKLERS IN THE SCOPE OF WORK AREA SHALL BE REMOVED AND REPLACED WITH NEW TO ACCOMMODATE THE NEW ARCHITECTURAL LAYOUT IN ACCORDANCE WITH THE CODES AND STANDARDS LISTED BELOW. REFER TO ARCHITECTURAL DRAWINGS FOR COMPLETE SCOPE OF WORK.
3. IT IS THE INTENT OF THESE DOCUMENTS TO PROVIDE DESIGN, MATERIALS, AND EQUIPMENT FOR A FULLY FUNCTIONING AND OPERATING SPRINKLER SYSTEM, INCLUDING THE PROPER INTERFACE AND COORDINATION WITH MECHANICAL, ELECTRICAL, PLUMBING, ARCHITECTURAL, AND STRUCTURAL SYSTEMS.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AND APPROVALS OF THE AUTHORITY HAVING JURISDICTION.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE LOCATIONS OF SPRINKLERS AND SLOPED PIPING WITH LIGHTING FIXTURES, DIFFUSERS, DUCTWORKS, CLEARANCE REQUIRED FOR EQUIPMENT ACCESS, CONDUITS, PIPES, STRUCTURAL MEMBERS, AND ALL OTHER OBSTRUCTIONS FOR A CODE COMPLIANT COVERAGE IN ACCORDANCE WITH NFPA 13.
6. STRUCTURAL MEMBERS SHALL NOT BE CUT OR PENETRATED UNLESS APPROVED BY THE PROJECT ARCHITECT AND STRUCTURAL ENGINEER.
7. PIPING LAYOUTS, WHERE SHOWN, ARE DIAGRAMMATIC AND SHOWS SYSTEM INTENT ONLY. THE CONTRACTOR SHALL PROVIDE FINAL LAYOUT AND HYDRAULIC CALCULATIONS IN ACCORDANCE WITH THE STATE BUILDING CODE AND REFERENCED NFPA 13.
8. SPRINKLER PIPING SHALL BE INSTALLED SO THAT ALL PORTIONS OF THE SYSTEM CAN BE DRAINED THROUGH THE MAIN DRAIN VALVES FOR THE SYSTEM. WHERE TRAPPED SECTIONS OF PIPING CANNOT BE AVOIDED, AUXILIARY DRAINS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13.
9. DO NOT INSTALL PIPING BELOW HVAC EQUIPMENT OR THAT INTERFERES WITH ANY TYPE OF ACCESS PANELS.
10. SPRINKLERS LOCATED IN AREAS EXPOSED TO STRUCTURE ABOVE SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 REQUIREMENTS FOR OBSTRUCTED OR UNOBSTRUCTED CONSTRUCTION CLASSIFICATIONS.
11. SPRINKLERS SHALL BE PROVIDED BELOW DUCTWORK OR EQUIPMENT GREATER THAN 4 FEET IN WIDTH AND COMPLY WITH ALL APPLICABLE OBSTRUCTION RULES OF NFPA 13.
12. WHERE CEILING TILES ARE PROVIDED, SPRINKLERS SHALL BE CENTERED IN CEILING TILES.
13. SPRINKLER GUARDS SHALL BE PROVIDED ON SPRINKLERS IN AREAS SUBJECT TO MECHANICAL DAMAGE AND ON SPRINKLERS LOCATED LESS THAN 7 FEET ABOVE FINISHED FLOOR.
14. PROVIDE ORDINARY TEMPERATURE SPRINKLERS IN ALL AREAS EXCEPT WHERE INTERMEDIATE OR HIGH TEMPERATURE SPRINKLERS ARE SPECIFICALLY REQUIRED BY NFPA 13.
15. SPRINKLERS THAT HAVE BEEN PAINTED OVER WITH PAINT FROM OTHER THAN THE SPRINKLER MANUFACTURER SHALL BE REPLACED WITH NEW.
16. ALL PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH NFPA 13.

DEMOLITION GENERAL NOTES

1. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR FULL EXTENT OF DEMOLITION SCOPE OF WORK.
2. CONTRACTOR IS STRONGLY ENCOURAGED TO VISIT THE SITE AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND SCOPE OF WORK PRIOR TO SUBMITTING BIDS.
3. EXISTING CONDITIONS, WHERE SHOWN, IS BASED ON AVAILABLE AS-BUILT DOCUMENTATION FROM THE OWNER AND SITE SERVEYS. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS ACTUAL CONDITIONS MAY VARY.
4. EXISTING FIRE PROTECTION SYSTEM COMPONENTS IN THE SCOPE OF WORK AREA THAT ARE FOUND TO BE DAMAGED OR NOT IN REUSABLE CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND REPLACED WITH NEW.
5. CONTRACTOR SHALL COORDINATE ALL REMOVAL, DISPOSAL, AND STORAGE OF EXISTING EQUIPMENT WITH THE OWNER.
6. SHUTDOWN OF SPRINKLER SYSTEM TO PERFORM REQUIRED WORK SHALL BE KEPT TO A MINIMUM AND COORDINATED WITH THE OWNER AT LEAST THREE DAYS IN ADVANCE. SPRINKLER SYSTEM SHALL NOT BE SHUTDOWN WITHOUT OWNER APPROVAL.
7. EXISTING SPRINKLER SYSTEMS LOCATED OUTSIDE OF THE WORK AREA SHALL NOT BE AFFECTED AND REMAIN FULLY OPERATIONAL DURING THE COURSE OF THE RENOVATION. WHERE THIS CANNOT BE AVOIDED, TEMPORARY FIRE PROTECTION MEASURES SHALL BE PROVIDED IN THE AFFECTED AREAS IN THE FORM STRATEGICALLY LOCATED TEMPORARY CONTROL VALVES, APPROVED FIRE WATCH OR OTHER APPROVED METHODS ACCEPTABLE TO THE AHJ.

DESIGN CRITERIA

SPRINKLER SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH NFPA 13 HAZARD CLASSIFICATIONS AND THEIR CORRESPONDING DESIGN DENSITY, DESIGN AREA, AND HOSE STREAM REQUIREMENTS. PIPE SCHEDULE METHOD IS NOT PERMITTED TO BE USED. MINIMUM SAFETY FACTOR OF 10 PSI SHALL BE PROVIDED.

1. LIGHT HAZARD: HALLWAY, ALL GENDER, MEN'S, WOMEN'S RESTROOM AND SIMILAR SPACES SHALL BE DESIGNED USING 0.1 GPM/SF OVER 1500 SQUARE FEET WITH 100 GPM HOSE STREAM. MAXIMUM SPRINKLER PROTECTION AREA SHALL NOT EXCEED 225 SQUARE FEET.

ABBREVIATIONS

AAV	AUTO AIR VENT
ABV	ABOVE
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
BLDG	BUILDING
BLW	BELOW
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CONN	CONNECTION
CONT	CONTINUATION
CW	COLD WATER
D	DEMOLISH / REMOVAL
DCWASA	D.C. WATER AND SEWER AUTHORITY
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
E	EXISTING
EA	EACH
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
F	FIRE
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FHC	FIRE HOSE CABINET
FHV	FIRE HOSE VALVE
FL	FLOOR
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FS	FLOW SWITCH
FT	FEET
GAL	GALLON
GPM	GALLONS PER MINUTE
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
IN	INCH
INV	INVERT
KW	KILOWATT
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
N	NEW
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO.	NUMBER
OS&Y	OUTSIDE STEM AND YOLK
P	PUMP
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
QR	QUICK RESPONSE
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY/WASTE PIPE
SF	SQUARE FEET
SS	STAINLESS STEEL
STP	STANDPIPE
STRUC	STRUCTURAL
TDA	TEST AND DRAIN ASSEMBLY
TEMP	TEMPERATURE
TYP	TYPICAL
W	WATT
WM	WATER METER
WTR	WATER
W/	WITH
W/O	WITHOUT

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

FIRE PROTECTION SYMBOLS

PIPE FITTINGS

- ECCENTRIC
- CONCENTRIC
- CAPPED CONNECTION
- PIPE UNION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE DOWN
- SHUT-OFF VALVE IN RISER
- PIPE WITH HEAT TRACE

ANNOTATIONS

- FIRE RISER DESIGNATION
- REVISION NUMBER
- POINT OF DEMOLITION
- POINT OF CONNECTION

DETAIL ANNOTATIONS

2 / FP7.01 — DETAIL NUMBER; WHERE THE DETAIL IS DRAWN

2 / FP1.01 FP7.01 — DETAIL NUMBER; WHERE THE DETAIL IS DRAWN; WHERE THE DETAIL REFERENCED

- N — NEW CONCEALED / PENDENT SPRINKLER HEAD WITH CEILING PLATE
- E — EXISTING CONCEALED / PENDENT SPRINKLER HEAD WITH CEILING PLATE
- D — DEMOLITION CONCEALED / PENDENT SPRINKLER HEAD WITH CEILING PLATE
- N — NEW PENDENT SPRINKLER HEAD
- E — EXISTING PENDANT SPRINKLER HEAD
- D — DEMOLITION PENDANT SPRINKLER HEAD
- F — DEMOLITION FIRE PIPE

PIPE REPRESENTATION

- F — FIRE PROTECTION PIPING
- X" F

PIPE VALVES AND ACCESSORIES

- BUTTERFLY VALVE W/ TAMPER SWITCH
- OS&Y VALVE W/ TAMPER SWITCH
- DOUBLE CHECK VALVE / DETECTOR BACKFLOW PREVENTER (ASSE 1015, 1048)
- BALL VALVE
- CHECK VALVE
- PRESSURE REDUCING VALVE
- FS — FLOW SWITCH
- STRAINER

NOTE: ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

CODES AND STANDARDS

2020	NYS BUILDING CODE
2020	NYS EXISTING BUILDING CODE
2020	NYS FIRE CODE
NFPA 13	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, 2013

SPRINKLER LEGEND

SYMBOL	MODEL	K FACTOR	TYPE	ORFICE	RESPONSE	FINISH	TEMP.
○	VICTAULIC V3801	5.6	CONCEALED	1/2"	QUICK	BRASS	155° F
◉	VIKING VK3021	5.6	PENDENT	1/2"	QUICK	BRASS	155° F

FIRE PROTECTION DRAWING LIST

SHEET	DRAWING	TITLE
1	F-001	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	F-101	FIRST FLOOR PLANS - SOCIAL SCIENCES - FIRE PROTECTION
3	F-701	FIRE PROTECTION DETAILS

RESTROOM RENOVATION
PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

735 Anderson Hill Rd.
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	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	7/1/2020	Pre-Bid Documents
	11/17/2020	Issued for Bid

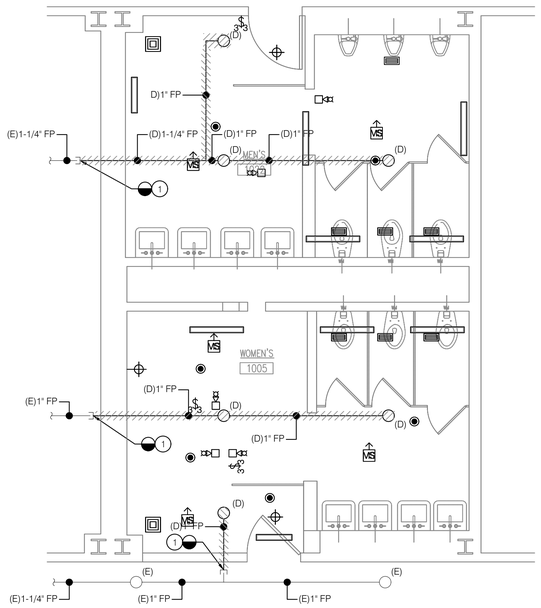
Key Plan

Title GENERAL NOTES, SYMBOLS & ABBREVIATIONS

Date	01-16-2020
Project No.	1944
Drawing By	CHS
CHK By	KB
Scale	AS NOTED

DOB Rev

F-001



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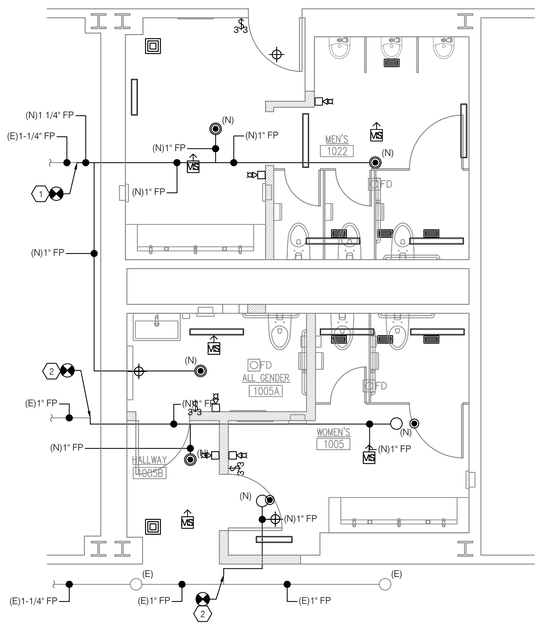
F-101

FIRST FLOOR PLAN - FIRE PROTECTION DEMOLITION

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

N



2
F-101

FIRST FLOOR PLAN - FIRE PROTECTION

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

N

GENERAL NOTES

1. CONTRACTOR IS REQUIRED TO COORDINATE THE SYSTEM SHUT-DOWN AT THE NEAREST FLOOR CONTROL VALVE ASSEMBLY BEFORE BEGINNING TO WORK ON THE DEMOLITION AND NEW WORK IN THE SCOPE AREAS. CONTRACTOR IS RESPONSIBLE TO PROVIDE AT LEAST 72 HR. NOTICE TO THE SCHOOL BEFORE PERFORMING SYSTEM SHUT DOWN.
2. CONTRACTOR SHALL ENSURE TO PROVIDE PATCHING AND/OR FIRE STOPPING OF PENETRATION AT LOCATIONS OF DEMOLISHED/REMOVED PIPING AT SITE.

DEMOLITION KEY NOTES

1. CUT AND CAP EXISTING FIRE PROTECTION PIPE . CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.

NEW WORK KEY NOTES

1. CONNECT NEW 1-1/4" FIRE PROTECTION PIPE TO EXISTING 1-1/4" FIRE PROTECTION PIPE.CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PIPES BEFORE MAKING THE CONNECTION.
2. CONNECT NEW 1" FIRE PROTECTION PIPE TO EXISTING 1" FIRE PROTECTION PIPE. CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PIPES BEFORE MAKING THE CONNECTION.

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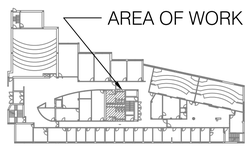
Key Plan

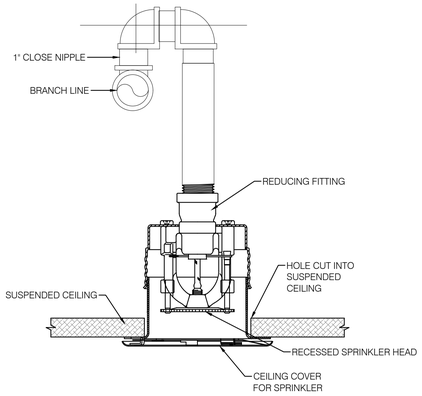


Title FIRST FLOOR PLANS - SOCIAL SCIENCES - FIRE PROTECTION

Date	01-16-2020
Project No.	1944
Drawing By	CHS
CHK By	KB
Scale	AS NOTED

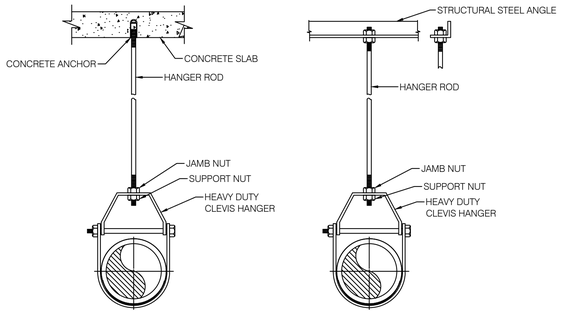
DOB Rev

F-101



3 / FP-701 CONCEALED SPRINKLER DETAIL

SCALE: NOT TO SCALE

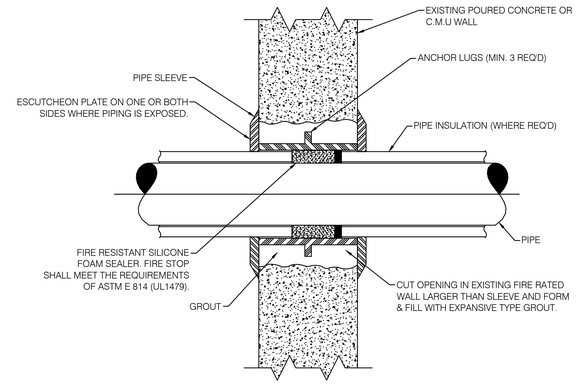


MAXIMUM DISTANCE BETWEEN HANGERS (FEET - INCHES)											
NOMINAL PIPE SIZE (IN INCHES)											
	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	5	6	8
STEEL PIPE EXCEPT THREADED LIGHT WALL	12 - 0	12 - 0	15 - 0	15 - 0	15 - 0	15 - 0	15 - 0	15 - 0	15 - 0	15 - 0	15 - 0
THREADED LIGHTWALL STEEL PIPE	12 - 0	12 - 0	12 - 0	12 - 0	12 - 0	12 - 0	N/A	N/A	N/A	N/A	N/A

2 / FP-701 PIPE SUPPORT DETAIL

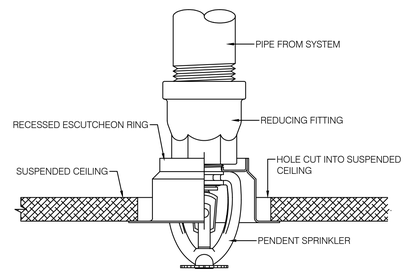
SCALE: NOT TO SCALE

NOTE:
1. PIPING SLEEVE IS TO BE SCHEDULE 40 STEEL PIPING.



1 / FP-701 PIPE PENETRATION THROUGH FIRE RATED WALL

SCALE: NOT TO SCALE



4 / FP-701 PENDANT TYPE SPRINKLER HEAD

SCALE: NOT TO SCALE

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Key Plan

Title FIRE PROTECTION DETAILS

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Project No.	1944
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Scale	AS NOTED

DOB Rev

F-701

GENERAL PLUMBING NOTES

1. DETERMINE EXACT LOCATIONS OF EXISTING UTILITY IN FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.
2. ALL PLUMBING WORK SHALL COMPLY WITH THE 2020 NEW YORK STATE PLUMBING CODE .
3. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES, INCLUDING (BUT NOT LIMITED TO), ELECTRICAL, HVAC PROCESS PIPING, SPRINKLER, PLUMBING STRUCTURAL AND GENERAL ARCHITECTURE.
4. ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE CAMPUS AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
5. NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE CAMPUS AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
6. ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH CHROME (STAINLESS WHERE NOTED) PLATED ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHER TIGHT. PIPING PENETRATING RATED PARTITIONS SHALL BE PROTECTED AS REQUIRED BY LOCAL CODE AUTHORITY. (SEE DETAILS)
7. MANUFACTURER'S MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS.
8. PROVIDE ACCESS PANELS FOR EQUIPMENT THAT REQUIRES PERIODIC SERVICE.
9. TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
10. CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN HEREIN.
11. PROVIDE SHUTOFF VALVES ON ALL BRANCH PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS. ALL VALVES SHALL BE ACCESSIBLE.
12. ALL SLEEVES THROUGH CONCRETE FLOORS AND ALL CORE DRILLING OF CONCRETE FLOORS AND WALLS SHALL BE BY THE CONTRACTOR.
13. CONCRETE PADS AND PLATFORMS FOR WORK OF THIS SECTION WILL BE PROVIDED BY GENERAL CONTRACTOR. PROVIDE INFORMATION AND HARDWARE AS NECESSARY TO COORDINATE WORK.
14. SCHEDULE WORK OF THIS SECTION TO AVOID INTERFERENCE WITH FIREPROOFING WORK.
15. COORDINATE ROOF PENETRATIONS WITH WORK OF OTHER SECTIONS AND WITH FLASHING REQUIREMENTS.
16. RUN PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS.
17. STRUCTURAL WELDING SHALL BE 1/4-INCH FILLET UNLESS REQUIRED OTHERWISE.
18. PROVIDE CLAMPS, OFFSETS, EXPANSION JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.
19. PROVIDE BALANCING VALVES AT SYSTEM LOOP RETURNS AND AT RETURN RISERS. PROVIDE SHUTOFF VALVES AT SYSTEM LOOP SUPPLIES AND SUPPLY RISERS.
20. PROVIDE GAUGE FITTINGS AND THERMOMETER WELLS AT HOT WATER SUPPLY AND RETURN BRANCHES AND PUMP INLETS AND OUTLETS.
21. VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
22. PIPING SHALL NOT RUN OVER ELECTRICAL PANELS AND SHALL BE COORDINATED WITH WORK OF OTHER TRADES.
23. THE DRAWINGS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF THE BUILDING AND EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.
24. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES AND TAXES.
25. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR ANY SITE DPW PERMIT AND NOTIFICATION.
26. CONTRACTOR SHALL MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE DESIGN ARCHITECT AND DESIGN ENGINEER.
27. ALL MATERIAL AND EQUIPMENT INDICATED ON THE PLANS OR DESCRIBED IN THE SPECIFICATIONS OR BOTH SHALL BE PROVIDED BY THE CONTRACTOR AND SHALL BE IN NEW CONDITION AT ACCEPTANCE OF WORK, EXCEPT AS APPROVED BY THE SUCF CAMPUS AUTHORITY.
28. CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPE, FIXTURES, ETC. TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. CONTRACTOR SHALL FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS. NOTIFY THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH ALL WORK. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.
29. DO NOT CUT STRUCTURAL MEMBERS WITHOUT THE APPROVAL OF THE DESIGN ARCHITECT AND DESIGN STRUCTURAL ENGINEER AND PERFORM CUTTING IN A MANNER AS DIRECTED BY THE DESIGN ARCHITECT AND DESIGN STRUCTURAL ENGINEER.
30. PROVIDE SLEEVES FOR ALL FLOOR PENETRATIONS WITH TOP OF SLEEVE 2" ABOVE FINISHED FLOOR.
31. FLOOR TO BE SLOPED 1/8" TO FLOOR DRAINS. TOP OF DRAIN FLUSH WITH FINISHED FLOOR.
32. MAINTAIN WORK AREA CLEAN AT ALL TIMES DURING CONSTRUCTION. AFTER COMPLETING INSTALLATION OF WORK, CLEAN ALL FIXTURES OF ALL RUBBISH, PLASTER, DIRT AND OTHER DEBRIS.
33. TEST ALL SYSTEMS. ALL FIXTURES SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. REPORT ANY DEFICIENCIES TO THE DESIGN ENGINEER.
34. ALL PIPING SYSTEMS SHALL BE TESTED AT DESIGN PRESSURES FOR A PERIOD OF TIME AS PRESCRIBED BY THE LOCAL AUTHORITIES HAVING JURISDICTION.
35. ALL SANITARY DRAINAGE PIPING 3" AND LARGER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/8" FALL PER 1'-0" OF RUN.
36. ALL SANITARY DRAINAGE PIPING 2" AND LESS SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" FALL PER 1'-0" OF RUN.
37. TO THE BEST OF DESIGNER'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THE PLANS OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CODE.
38. ALL FLOOR DRAINS IN FINISHED AREAS SHALL BE LOCATED AS PER THE ARCHITECTURAL DRAWINGS.
39. THE CONTRACTOR SHALL VERIFY THE COMPATIBILITY OF THE DRAINS WITH THE APPROVED WATER PROOFING SYSTEMS PRIOR TO SUBMITTING SHOP DRAWINGS.
40. THE TOP OF CURVE OF ALL FLOOR DRAINS SHALL BE FLUSH WITH THE ADJACENT FINISHED FLOOR.

GENERAL PLUMBING DEMOLITION NOTES

1. WHERE EXISTING PLUMBING FIXTURES ARE INDICATED TO BE REMOVED, REMOVE EXISTING FIXTURE, TRIM, AND ALL ASSOCIATED PIPING AND HARDWARE. REMOVE SERVICE BRANCHES BACK TO NEAREST MAIN AND CAP. DEAD LEGS SHALL NOT EXCEED 2'-0" IN LENGTH.
2. REMOVAL SHALL BE PERFORMED IN SUCH A MANNER THAT WILL NOT DAMAGE ADJOINING SURFACES OR EQUIPMENT INDICATED TO REMAIN. WHERE SURFACES MUST BE REMOVED TO COMPLETE REMOVAL, THE CONTRACTOR SHALL REPLACE AND REPAIR THE SURFACES BACK TO THE ORIGINAL CONDITION.
3. WHERE REMOVAL WOULD AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING, THE CONTRACTOR SHALL NOTIFY THE DESIGN ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO PROCEEDING WITH REMOVAL.
4. ALL REMOVED FIXTURES AND TRIM SHALL REMAIN THE PROPERTY OF THE CAMPUS AND THE CONTRACTOR SHALL STORE ON SITE OR REMOVE FROM SITE SAID FIXTURES AS DIRECTED BY THE CAMPUS.
5. THE CONTRACTOR SHALL COORDINATE ALL REMOVAL REQUIRED WITH SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTION .WHERE SYSTEMS MUST REMAIN IN SERVICE DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE MEANS AND METHODS OF ISOLATING THE SYSTEMS TO BE REMOVED WITH THE SYSTEMS TO REMAIN IN SERVICE. MEANS AND METHODS SHALL INCLUDE TEMPORARY CAPS AND ISOLATION VALVES.

CODES / STANDARDS

2020 NEW YORK STATE BUILDING CODE

2020 NEW YORK STATE PLUMBING CODE

2020 NEW YORK STATE ENERGY CONSERVATION CODE

PLUMBING SYMBOLS

PIPE REPRESENTATION

- EXISTING CW
- EXISTING HW
- EXISTING HWR
- EXISTING SAN
- EXISTING SAN BELOW GROUND
- EXISTING VENT
- DEMOLITION CW
- DEMOLITION HW
- DEMOLITION HWR
- DEMOLITION SAN
- DEMOLITION VENT
- NEW CW
- NEW HW
- NEW HWR
- NEW SAN
- NEW SAN BELOW GROUND
- NEW VENT

PIPE VALVES AND ACCESSORIES

- REDUCED PRESSURE ZONE BACKFLOW PREVENTER(ASSE1013)
- DOUBLE CHECK VALVE ASSEMBLY(ASSE1015)
- BALL VALVE
- CHECK VALVE
- SOLENOID VALVE
- GATE VALVE
- PRESSURE REDUCING VALVE
- THERMOSTATIC MIXING VALVE
- PLUG VALVE
- BALANCING VALVE
- VACUUM RELIEF VALVE
- BACKFLOW PREVENTER (ASSE 1024)
- BACK WATER VALVE
- PUMP
- WATER HAMMER ARRESTOR ('A' = PDI SIZE)
- PRESSURE GAUGE
- THERMOMETER GAUGE
- AQUASTAT VALVE
- STRAINER

PIPE FITTINGS

- REDUCER/INCREASER
- CAPPED CONNECTION
- PIPE UNION
- ELBOW TURNED UP
- ELBOW TURNED DOWN
- TEE UP
- TEE DOWN
- SHUT-OFF VALVE IN RISER

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

- W 1 — DOMESTIC WATER RISER DESIGNATION
- S 1 — SANITARY WATER RISER DESIGNATION
- V 1 — VENT RISER DESIGNATION
- 1 — REVISION NUMBER
- POINT OF DEMOLITION
- POINT OF CONNECTION

DETAIL ANNOTATIONS

2 — DETAIL NUMBER
P101 — WHERE THE DETAIL IS DRAWN

MISCELLANEOUS

- CO — HORIZONTAL CLEANOUT
- WH — WALL HYDRANT
- HB — HOSE BIB
- M — WATER METER
- F — WATER FILTER
- VACCUM BREAKER
- TEMPERATURE AND PRESSURE RELIEF VALVE
- BREAK PIPE BELOW

DRAINS

- AD — AREA DRAIN
- FD — FLOOR DRAIN
- GD — GARAGE DRAIN
- FCO — FLOOR CLEAN OUT
- FS — FLOOR SINK DRAIN
- FUNNEL FLOOR DRAIN
- OSD — OPEN SITE DRAIN

NOTE:
ALL SYMBOLS MAY NOT APPEAR ON THE DRAWINGS.

ABBREVIATIONS

ABV	ABOVE
AD	AREA DRAIN
ADA	AMERICAN DISABILITY ACT
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
AAV	AIR ADMITTANCE VALVE
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BV	BACKWATER VALVE
CA	COMPRESSED AIR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING
CO	CLEANOUTS
CONT	CONTINUATION
CW	COLD WATER
(D)	DEMOLISH EXISTING
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DN	DOWN
DWG	DRAWING
DWH	DOMESTIC WATER HEATER
DF	DRINKING FOUNTAIN
(E)	EXISTING
EA	EACH
EQUIP	EQUIPMENT
EST	EMERGENCY STORM WATER
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
F	WATER FILTER
FD	FLOOR DRAIN
FL	FLOOR
FS	FLOW SWITCH
FT	FEET
GAL	GALLON
GCO	GRADE CLEANOUTS
GPM	GALLONS PER MINUTE
HB	HOSE BIB
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
HW	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HWSH	HOT WATER STORAGE/HEATER
IN	INCH
INV	INVERT
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
MTD	MOUNTED
(N)	NEW
NG	NATURAL GAS
NIC	NOT IN CONTRACT
NO.	NUMBER
NFWH	NON FREEZE WALL HYDRANT
P	PUMP
PH	PHASE (ELECTRICAL)
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
REF	REFRIGERATOR
RD	ROOF DRAIN
RPM	REVOLUTIONS PER MINUTE
SAN	SANITARY/WASTE PIPE
SF	SQUARE FEET
SFU	SUPPLY FIXTURE UNIT
SS	STAINLESS STEEL
ST	STORM WATER
STG	STORM FROM GREEN ROOF
STRUC	STRUCTURAL
TEMP	TEMPERATURE
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER TUBE
TW	TEMPERED WATER
TYP	TYPICAL
UR	URINAL
VTR	VENT THRU ROOF
W	WATT
WC	WATER CLOSET
WCO	WALL CLEANOUTS
WH	WALL HYDRANT
WM	WATER METER
WTR	WATER
W/	WITH
W/O	WITHOUT

NOTE: ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS.

PLUMBING DRAWING LIST

SHEET	DRAWING	TITLE
1	P-001	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	P-101	FIRST FLOOR PLANS - SOCIAL SCIENCES - PLUMBING
3	P-102	FIRST FLOOR PLANS - NATURAL SCIENCE - PLUMBING
4	P-501	PLUMBING RISER DIAGRAMS
5	P-601	PLUMBING SCHEDULES
6	P-701	PLUMBING DETAILS

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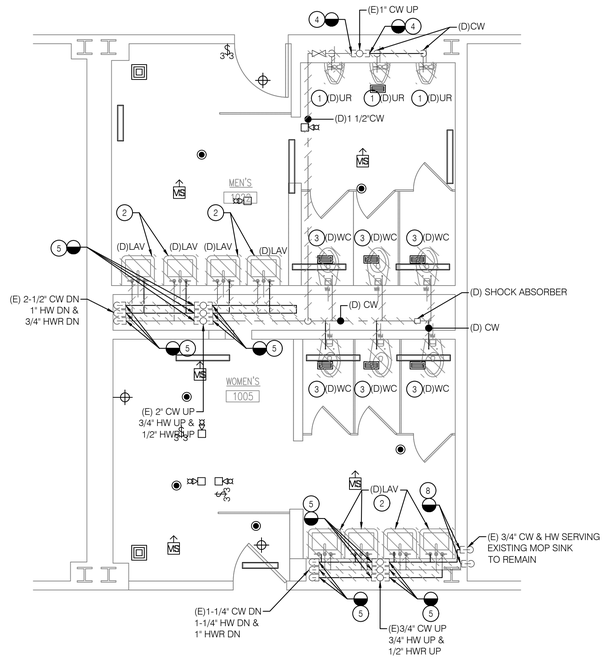
Key Plan

Title GENERAL NOTES, SYMBOLS & ABBREVIATIONS

Date	01-16-2020
Project No.	1944
Drawing By	CHS
CHK By	KB
Scale	AS NOTED

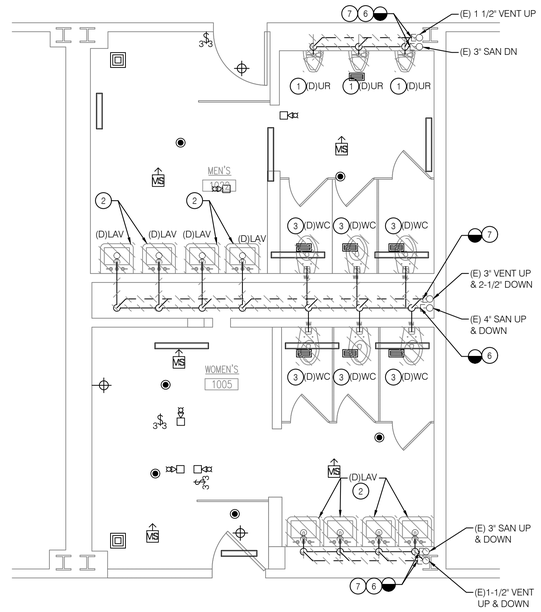
DOB Rev

P-001



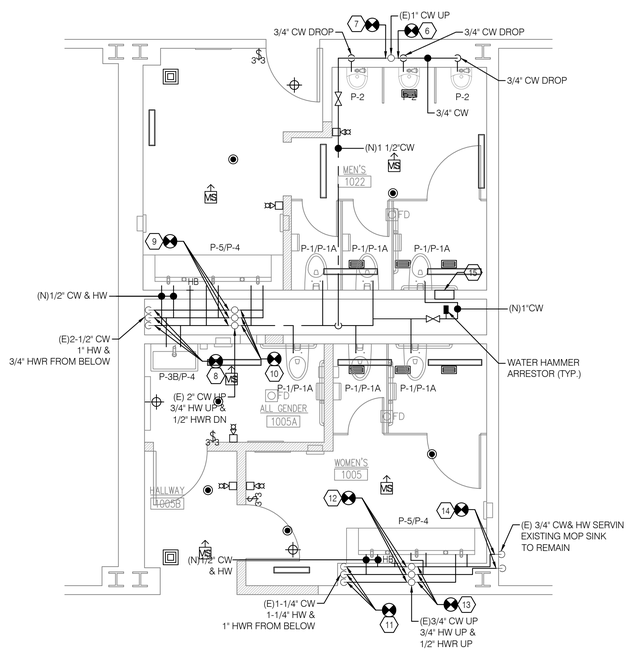
3 P-101 FIRST FLOOR PLAN - DOMESTIC WATER - PLUMBING DEMOLITION

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



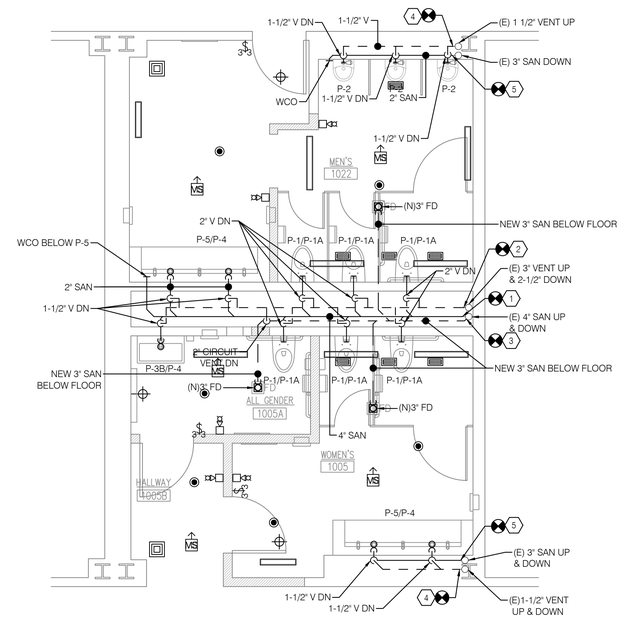
4 P-101 FIRST FLOOR PLAN - SANITARY - PLUMBING DEMOLITION

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



1 P-101 FIRST FLOOR PLAN - DOMESTIC WATER - PLUMBING

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



2 P-101 FIRST FLOOR PLAN - SANITARY - PLUMBING

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

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL FIXTURES AND PIPING PRIOR TO START OF DEMOLITION WORK.
2. EXISTING PLUMBING FIXTURE TO BE REMOVED ALONG WITH ASSOCIATED SUPPLY AND WASTE/VENT PIPING. COORDINATE WITH OWNER/ARCHITECT FOR DISPOSAL OR STORAGE OF EXISTING FIXTURE. ALL PATCH WORK SHALL BE COORDINATED WITH ARCHITECT.
3. CONTRACTOR SHALL FIELD VERIFY ALL INDICATED EXISTING RISERS AND PIPING LOCATION PRIOR TO START OF NEW WORK.
4. REFER TO P-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
5. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COMPLETE INSTALLATION OF FIXTURES / EQUIPMENT

DEMOLITION KEY NOTES

1. REMOVE EXISTING URINAL, FLUSH VALVE, CARRIER AND ASSOCIATED PIPES.
2. REMOVE EXISTING LAVATORY, FAUCET ALONG WITH P-TRAP CONNECTIONS AND ASSOCIATED PIPES.
3. REMOVE EXISTING WATER CLOSET, FLUSH VALVE, CARRIER AND ASSOCIATED PIPES.
4. CUT AND CAPPED EXISTING CW PIPE AT THIS LOCATION. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
5. CUT AND CAPPED EXISTING CW, HW & HWR PIPES AT THIS LOCATION CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
6. CUT AND CAPPED EXISTING SANITARY PIPE AT THIS LOCATION. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
7. CUT AND CAPPED EXISTING VENT PIPE AT THIS LOCATION. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
8. CUT AND CAPPED EXISTING CW & HW PIPE AT THIS LOCATION. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.

NEW WORK KEY NOTES

1. CONNECT NEW 4" SAN TO EXISTING 4" SAN .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
2. CONNECT NEW 2" V TO EXISTING 3" V .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
3. CONNECT NEW 3" SAN TO EXISTING 4" SAN .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
4. CONNECT NEW 1-1/2" V TO EXISTING 1-1/2" V .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
5. CONNECT NEW 2" SAN TO EXISTING 3" SAN .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
6. CONNECT NEW 1" CW TO EXISTING 1" CW .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
7. CONNECT EXISTING 1" CW TO NEW 1-1/2" CW . CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
8. CONNECT NEW 2-1/2" CW, 1" HW & 3/4" HWR TO EXISTING 2-1/2" CW, 1" HW & 3/4" HWR .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
9. CONNECT EXISTING 2" CW, 3/4" HW & 1/2" HWR TO NEW 2-1/2" CW, 1" HW & 3/4" HWR .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
10. CONNECT NEW 2" CW, 1/2" HW & 1/2" HWR TO EXISTING 2" CW, 1/2" HW & 1/2" HWR .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
11. CONNECT NEW 1" CW, 1" HW & 3/4" HWR TO EXISTING 1-1/4" CW, 1-1/4" HW & 1" HWR .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
12. CONNECT EXISTING 3/4" CW, 3/4" HW & 1/2" HWR TO NEW 1" CW, 1" HW & 3/4" HWR .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
13. CONNECT NEW 3/4" CW, 3/4" HW & 1/2" HWR TO EXISTING 3/4" CW, 3/4" HW & 1/2" HWR .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
14. CONNECT NEW 3/4" CW & 3/4" HW TO EXISTING 3/4" CW & 3/4" HW . CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
15. PROVIDE 12" X12" ACCESS PANEL. COORDINATE THE INSTALLATION OF ACCESS PANEL ON WALL IN FIELD. FINAL LOCATION SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION (TYP.)

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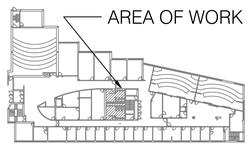
Key Plan

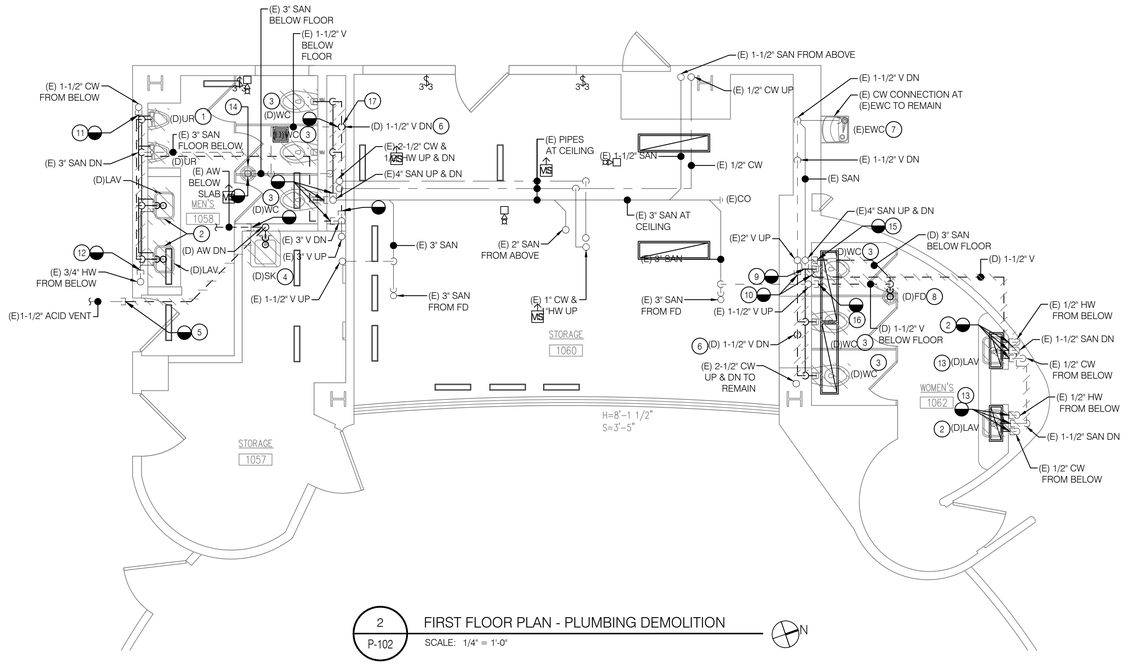


Title FIRST FLOOR PLANS - SOCIAL SCIENCES - PLUMBING

Date	01-16-2020
Project No.	1944
Drawing By	CHS
CHK By	KB
Scale	AS NOTED

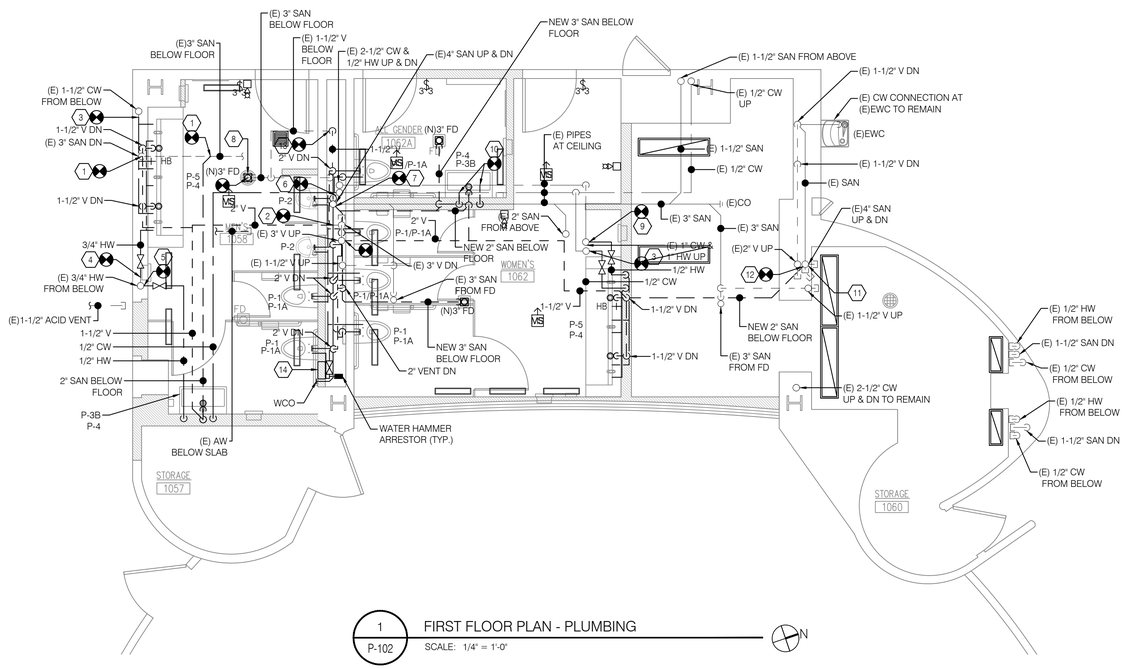
DOB Rev

P-101



2 / P-102 FIRST FLOOR PLAN - PLUMBING DEMOLITION

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



1 / P-102 FIRST FLOOR PLAN - PLUMBING

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

GENERAL NOTES

1. CONTRACTOR SHALL FIELD VERIFY ALL FIXTURES AND PIPING PRIOR TO START OF DEMOLITION WORK.
2. EXISTING PLUMBING FIXTURE TO BE REMOVED ALONG WITH ASSOCIATED SUPPLY AND WASTE/VENT PIPING. COORDINATE WITH OWNER/ARCHITECT FOR DISPOSAL OR STORAGE OF EXISTING FIXTURE. ALL PATCH WORK SHALL BE COORDINATED WITH ARCHITECT.
3. CONTRACTOR SHALL FIELD VERIFY ALL INDICATED EXISTING RISERS AND PIPING LOCATION PRIOR TO START OF NEW WORK.
4. REFER TO P-001 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
5. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COMPLETE INSTALLATION OF FIXTURES / EQUIPMENT

DEMOLITION KEY NOTES

1. REMOVE EXISTING URINAL, FLUSH VALVE, CARRIER AND ASSOCIATED PIPES.
2. REMOVE EXISTING LAVATORY ALONG WITH P-TRAP CONNECTIONS AND ASSOCIATED PIPES. CUT AND CAP PIPES BACK TO WALL.
3. REMOVE EXISTING LAVATORY , FAUCET ALONG WITH P-TRAP CONNECTIONS AND ASSOCIATED PIPES.
4. REMOVE EXISTING SINK, FAUCET ALONG WITH P-TRAP CONNECTIONS AND ASSOCIATED PIPE. CUT AND CAP EXISTING PLUMBING PIPE BACK TO MAIN.
5. CUT AND CAP EXISTING ACID VENT PIPE AT THIS LOCATION. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
6. CUT AND CAP EXISTING 1-1/2" VENT PIPE AT BASEMENT CEILING. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
7. EXISTING WATER COOLER AND ASSOCIATED PIPES TO REMAIN.
8. REMOVE EXISTING FLOOR DRAIN AND ALL ASSOCIATED PIPES. CUT AND CAP PIPES BACK TO MAIN.
9. CUT AND CAP EXISTING SAN AT THIS LOCATION. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
10. CUT AND CAP EXISTING VENT AT THIS LOCATION. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
11. CUT AND CAP EXISTING CW AT THIS LOCATION. CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
12. CUT AND CAP EXISTING HW AT THIS LOCATION . CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
13. EXISTING PIPES TO BE CAPPED AT WALL . CONTRACTOR TO FILED VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
14. EXISTING 3" FLOOR DRAIN TO BE REMOVED AND REPLACED WITH NEW 3" FLOOR DRAIN, ALL ASSOCIATED PIPING RELATED TO EXISTING FLOOR DRAIN TO REMAIN. COORDINATE WITH ARCHITECT/ OWNER FOR DISPOSAL OF EXISTING FLOOR DRAIN. SEE NEW WORK FOR NEW FLOOR DRAIN.
15. CUT AND CAP EXISTING SAN ON BELOW FLOOR "STOR 044". CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
16. CUT AND CAP EXISTING VENT ON BELOW FLOOR "STOR 044". CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING PIPE.
17. CUT AND CAP EXISTING VENT PIPE IN CHASE. SEE NEW PLAN FOR NEW CONNECTION.

NEW WORK KEY NOTES

1. CONNECT NEW 2" SAN TO EXISTING 3" SAN .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
2. CONNECT NEW 2" V TO EXISTING 3" V .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
3. CONNECT NEW 3/4" CW TO EXISTING CW .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
4. CONNECT NEW 3/4" HW TO EXISTING 3/4" HW .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
5. CONNECT NEW 1/2" HW TO EXISTING 3/4" HW .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
6. CONNECT NEW 2" CW TO EXISTING CW .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
7. CONNECT NEW 3" SANITARY TO EXISTING 4" SANITARY PIPE ON FLOOR BELOW. CONTRACTOR TO COORDINATE NEW PIPE ROUTING WITH EXISTING DUCTS/PIPING TO AVOID CLASHES ON FLOOR BELOW.
8. NEW 3" FLOOR DRAIN. REUSE THE EXISTING PLUMBING ROUGH-INS. CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
9. CONNECT NEW 3/4" HW TO EXISTING HW .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
10. CONNECT NEW 1/2" CW AND 1/2" HW TO EXISTING CW AND HW PIPES. CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
11. EXISTING 4" SANITARY AND 2" VENT RISER TO REMAIN. CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION.
12. CONNECT NEW 2" SANITARY TO EXISTING 4" SANITARY RISER ON FLOOR BELOW. CONTRACTOR TO COORDINATE NEW PIPE ROUTING WITH EXISTING DUCTS/PIPING TO AVOID CLASHES ON FLOOR BELOW.
13. CONNECT EXISTING 1-1/ 2" V TO NEW 1-1/2" V IN CHASE. SEE RISER DIAGRAM FOR CONNECTIONS .CONTRACTOR TO FIELD VERIFY THE EXACT SIZE AND LOCATION OF EXISTING PLUMBING PIPES BEFORE MAKING THE CONNECTION.
14. PROVIDE 12" X12" ACCESS PANEL. COORDINATE THE INSTALLATION OF ACCESS PANEL ON WALL IN FIELD. FINAL LOCATION SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION (TYP.)

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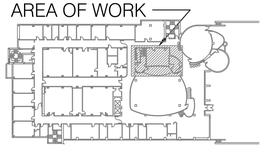
	11/17/2020	Issued for Bid

Key Plan

AREA OF WORK

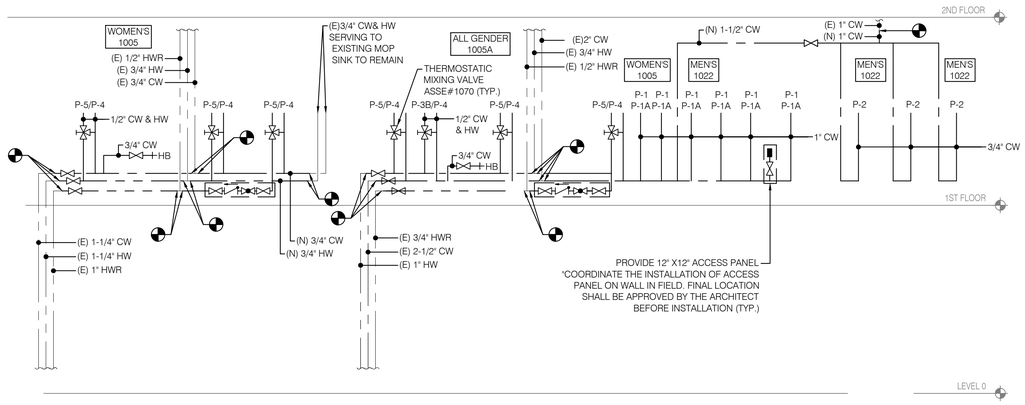


Title FIRST FLOOR PLANS - NATURAL SCIENCE - PLUMBING

Date	01-16-2020
Project No.	1944
Drawing By	CHS
CHK By	KB
Scale	AS NOTED

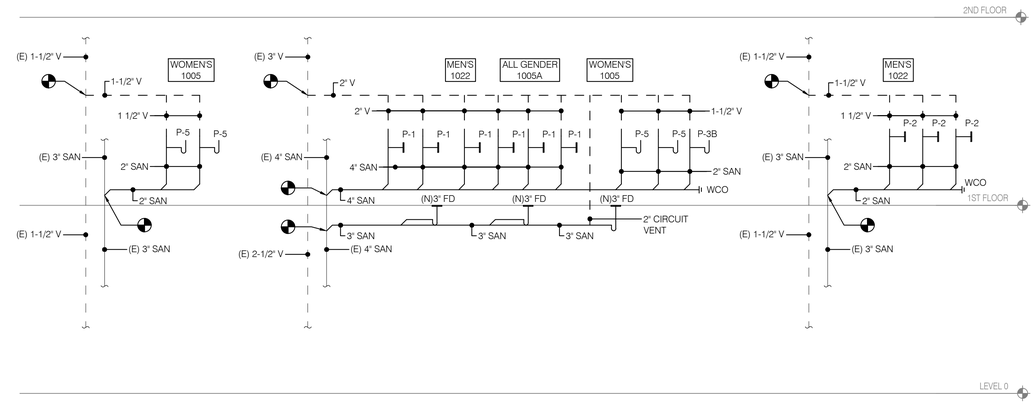
DOB Rev

P-102



1 / P-501 PARTIAL WATER RISER DIAGRAM (SOCIAL SCIENCE BUILDING)

SCALE: NOT TO SCALE



3 / P-501 PARTIAL SANITARY RISER DIAGRAM (SOCIAL SCIENCE BUILDING)

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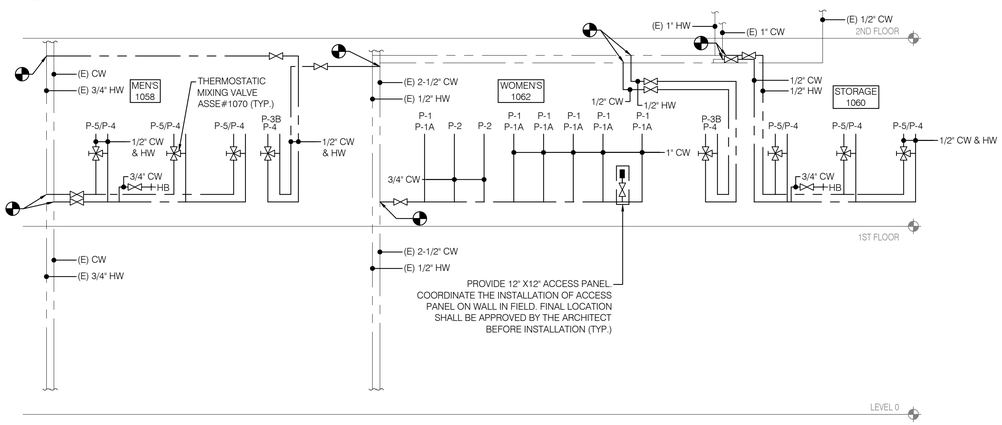

2 / P-501 PARTIAL WATER RISER DIAGRAM (NATURAL SCIENCE BUILDING)

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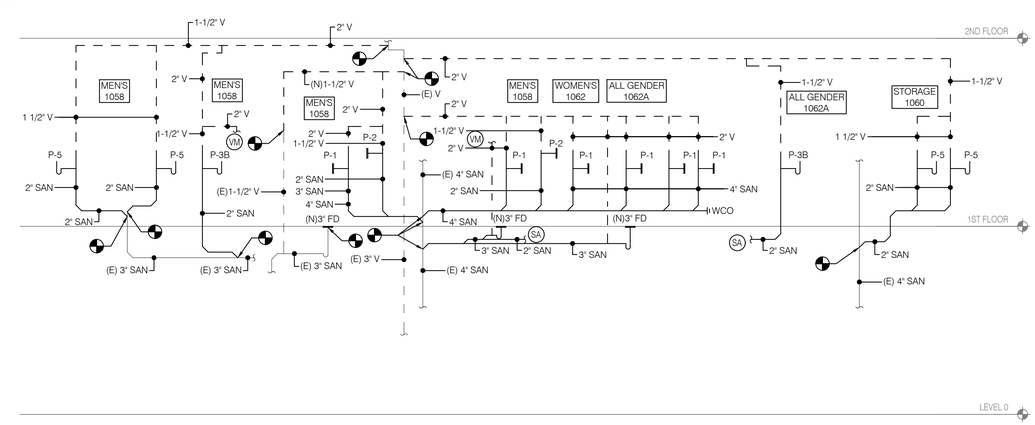

4 / P-501 PARTIAL SANITARY RISER DIAGRAM (NATURAL SCIENCE BUILDING)

SCALE: NOT TO SCALE

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Key Plan

Title PLUMBING RISER DIAGRAMS

Date	01-16-2020
Project No.	1944
Drawing By	CHS
CHK By	KB
Scale	AS NOTED

DOB Rev

P-501

PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	ADA	MANUFACTURER	MODEL	DESCRIPTION	MOUNTING	REMARKS	PLUMBING FIXTURE ROUGH-IN			
								CW	HW	WASTE	VENT
P-1	WALL MOUNTED TOILET	YES	SLOAN	ST-2459	WHITE VITREOUS CHINA, ELONGATED BOWL, WALL MOUNTED, WALL OUTLET, SIPHON JET FLUSHING ACTION ACHIEVES 1000g MAP SCORE WHEN USED WITH ANY SLOAN FLUSHOMETER , 1 1/2" I.P.S. TOP SPUD INLET, STATIC LOAD RATING OF 750 LBS. WATER SPOT AREA 10 1/8" X 9 3/8" (26 CM X24 CM).	WALL MOUNT	1.28 GPF, FLUSHOMETER TOILET, FOR ADA SEAT HEIGHT SET AT 17" TO 19" FROM FINISHED FLOOR	-	-	4"	2"
P-1A	SOLAR POWERED DUAL FLUSH	-	SLOAN	8111-1.6/1.1	EXPOSED, SOLAR POWERED, SENSOR ACTIVATED SLOAN SOLIS DUAL FLUSH MODEL WATER CLOSET FLUSHOMETER FOR WALL HUNG TOP SPUD BOWLS. FULL FLUSH (LARGE BUTTON) 1.6 GPF/6.0 LPF. REDUCED FLUSH (SMALL BUTTON) 1.1 GPF/4.2 LPF.	-	-	1"	-	-	-
P-2	URINAL/FLUSH VALVE COMBO	YES	SLOAN	WESU-7000.1201	WHITE VITREOUS CHINA, WASHDOWN FLUSHING ACTION, INTEGRAL FLUSHING RIM, 3/4" I.P.S. TOP SPUD INLET, 2" NPT OUTLET FLANGE , VANDAL RESISTANT STRAINER ASSEMBLY INCULDED,100% FACTORY FLUSH TESTED , FLUSH VOLUME 0.125 GPF, SU-7009 URINAL AND SOLIS 8186 FLUSHOMETER COMBO.	WALL MOUNT	0.125 GPF EXPOSED SENSOR URINAL FLUSHOMETER	3/4"	-	2"	1-1/2"
P-3A	WALL MOUNTED SINK	YES	DURAVIT	VERO	SINK DIMENSION 23 5/8" X 18 1/4" X 5 3/8" , WHITE VITREOUS CHINA WITH OVER FLOW, ORDER NO 045460..27	WALL MOUNT	-	-	-	2"	1-1/2"
P-3B	WALL MOUNTED SINK	YES	DURAVIT	VERO	SINK DIMENSION 31 1/2" X 18 1/4" X 5 3/8" , WHITE VITREOUS CHINA WITH OVER FLOW, ORDER NO 045480..25	WALL MOUNT	-	-	-	2"	1-1/2"
P-3C	WALL MOUNTED SINK	YES	DURAVIT	VERO	SINK DIMENSION 20" X 18 1/4" X 5 3/8" , WHITE VITREOUS CHINA WITH OVER FLOW, ORDER NO 0452500000	WALL MOUNT	-	-	-	2"	1-1/2"
P-4	WALL MOUNTED SINK FAUCET	-	SLOAN	OPTIMA SOLIS EAF-2751	SOLAR POWERED, SENSOR ACTIVATED , ELECTRONIC , CHROME PLATED CONSTRUCTED METAL , HAND WASHING FAUCET , MAGNETIC SOLENID VALVE, AUTOMATIC SELF ADAPTING SENSOR TECHNOLOGY, 6 VDC LITHIUM BATTERY BACK-UP POWER.	-	0.5 GPM FLOW RATE. PROVIDE ASSE #1070 THERMOSTSTIC MIXING VALVE	1/2"	1/2"	-	-
P-5	VATINITY SINK	YES	SOPHSTONE	SOPH-ST94	ADA COMPLIANT, SOPSSTONE COMPOSITE STONE WITH HONED FINISH, METICULOUSLY HAND CRAFTED, SMOOTH, EASY TO CLEAN SURFACE WITH STAIN RESISTANT QUALITIES. ECO- SENSITIVE WITH HIGH RECYCLED MATERIAL CONTENT.	WALL MOUNT	-	-	-	2"	1-1/2"
P-6	MOP SINK	-	FIAT PRODUCTS	MSB2424	THE MSB 2424 SHALL HAVE OVERALL OUTSIDE DIMENSION OF 24" X 24" X 10". THE MOLDING SHALL BE DONE IN MATCHED METAL DIES UNDER HEAT AND PRESSURE RESULTING IN A ONE PIECE HOMOGENEOUS PRODUCT WITH 3" DRAIN PIPE.	FLOOR MOUNT	-	-	-	3"	2"
P-7	MOP SINK WALL MOUNTED FAUCET	-	FIAT PRODUCTS	FIAT 830-AA	CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, 8" CENTER TO CENTER, FOUR ARM HUB HANDLES, VALVES CONTAIN RENEWABLE HUB, RENEWABLE SEATS, SWIVEL DISCS, ENCASED WASHERS AND BRASS WASHER SCREWS.	-	-	3/4"	3/4"	-	-
P-8	DRINKING FOUNTAIN	YES	ELKAY	LZS8WSLP	ELKAY ENHANCED EZH20 BOTTLE FILLING STATION & SINGLE ADA COOLER, FILTERED 8 GPH FINISH WITH LIGHT GREY GRANITE. 115V/60HZ , FULL LOAD 5 AMPS WITH CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50° F DRINKING WATER, HANDS FREE, AUTOMATIC FILTER STATUS RESET, ENERGY SAVINGS, GREEN TICKER, LAMINAR FLOW , ANTIMICROBIAL, REAL DRAIN	WALL MOUNT	-	1/2"	-	2"	1- 1/2"
3" FD	FLOOR DRAIN	-	PROSET	T45630-F-P	THE TRAP GUARD DEVICE IS AN INTERGRAL PART OF THE PROSET FLOOR DRAIN AND COMES AS A COMPLETE UNIT. THE DRAIN COMES WITH A PROTECTIVE PLASTIC STRAINER COVER AND A HEAVY PLUG UNDERNEATH THE STRAINER TOP.	FLOOR MOUNT	-	-	-	3"	2"
HB	HOSE BIB	-	ARROWHEAD	351-251 BFP	HEAVY DUTY RED BRASS CONSTRUCTION (83% COPPER),MAXIMUM PRESSURE 125 PSI,MINIMUM OPERATING TEMP 180° F, 8-9 GPM FLOW RATE	WALL MOUNT	-	3/4"	-	-	-

NOTE: *REFER TO ARCHITECTURAL PLANS FOR EXACT FIXTURE LOCATIONS, QUANTITIES AND ADA REQUIREMENTS. *PLUMBING FIXTURE SCHEDULE INDICATING THE SPECIFIED PRODUCT ARE BASIS OF DESIGN.

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Key Plan

Title PLUMBING SCHEDULES

Date	01-16-2020
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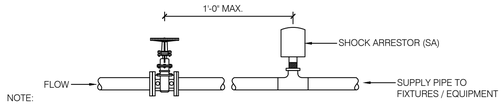
P-601



NOTE:

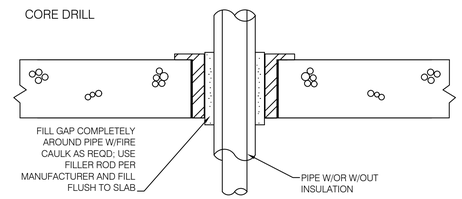
1. SHOCK ARRESTORS SHALL BE INSTALLED ON ALL BRANCH PIPING SERVING PLUMBING FIXTURES, QUICK-CLOSING, VALVES, EQUIPMENT, OR WALL HYDRANTS.
2. STOP VALVE AND SHOCK ARRESTORS SHALL BE ACCESSIBLE THROUGH A SINGLE ACCESS DOOR.
3. SHOCK ARRESTORS SHALL BE CERTIFIED BY THE PLUMBING AND DRAINAGE INSTITUTE (PDI).
4. SEE FLOOR PLANS AND RISER DIAGRAMS FOR SIZE AND SIZE AND CONTINUATION.
5. WHEN WORKING WATER PRESSURE EXCEEDS 65 PSI USE NEXT LARGEST SIZE.
6. MAXIMUM PIPING LENGTH COVERED BY ONE ARRESTOR SHALL BE 20 LINEAR FEET.

WATER HAMMER ARRESTOR SIZE SCHEDULE

SIZE OF PIPE	FIXTURE UNITS	HAMMER ARRESTOR SIZE (PDI REFERENCE)
1/2"	1-11	A
3/4	12-32	B
1	33-60	C
1 1/4	61-113	D
1 1/2	114-154	E
2	155-330	F

3 / P-701 SHOCK ARRESTOR DETAIL

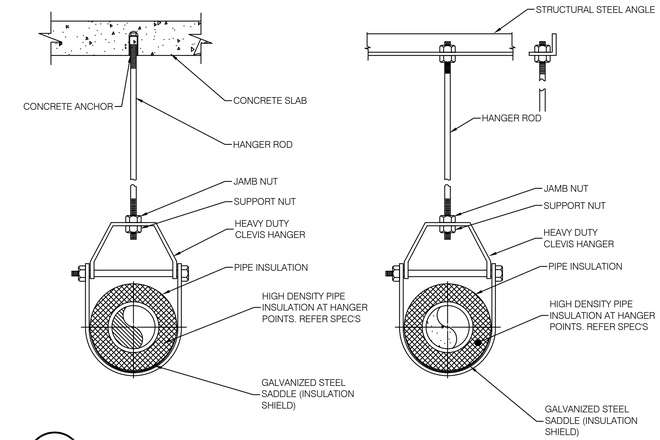
SCALE: NOT TO SCALE



NOTE: ALL PIPING SLEEVES WILL BE SCHEDULE 40 STEEL PIPE

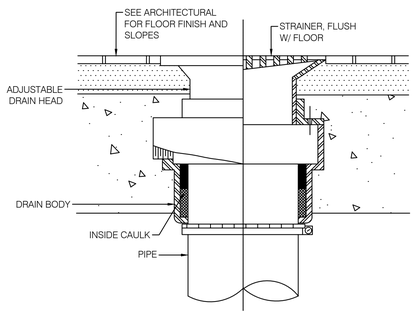
2 / P-701 PIPE PENETRATION THROUGH CONCRETE

SCALE: NOT TO SCALE



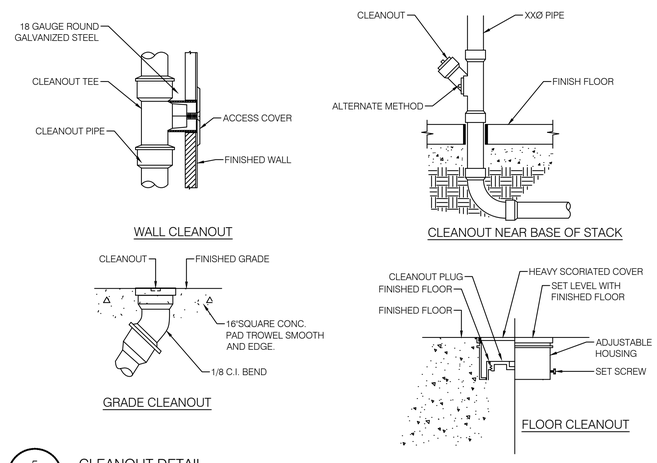
1 / P-701 PIPE SUPPORT DETAIL

SCALE: NOT TO SCALE



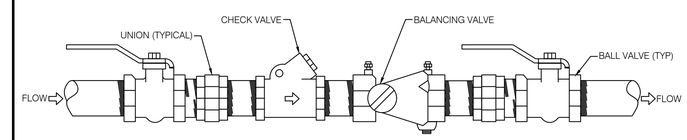
6 / P-701 FLOOR DRAIN

SCALE: NOT TO SCALE



5 / P-701 CLEANOUT DETAIL

SCALE: NOT TO SCALE

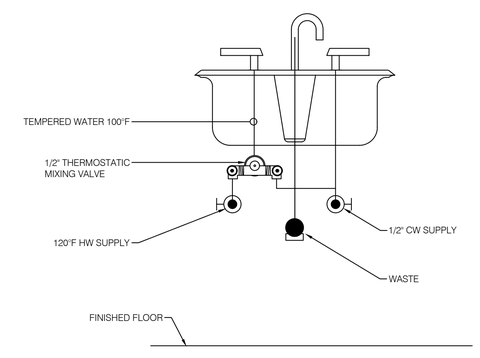


NOTES:

1. ALL THREADED PIPING BETWEEN UNIONS SHALL BE BRASS.
2. INSTALL DIE-ELECTRIC UNIONS FOR PIPING CONNECTIONS OF DISSIMILAR METALS.

4 / P-701 DOMESTIC HOT WATER RETURN BALANCING ASSEMBLY

SCALE: NOT TO SCALE



7 / P-701 POINT OF USE MIXING VALVE DETAIL

SCALE: NOT TO SCALE

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P-701

GENERAL NOTES

1. GENERAL NOTES

1.1. SYMBOLS, ABBREVIATIONS AND MECHANICAL GENERAL NOTES ARE COMPOSITE. ALL SYMBOLS, ABBREVIATIONS AND MECHANICAL NOTES MAY NOT BE USED ON THIS PROJECT.

1.2. WORK INDICATED ON THESE DRAWINGS IS DIAGRAMMATIC AND SHOULD NOT BE SCALED TO ESTABLISH LOCATION OF WORK. THE DRAWINGS ARE INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE GENERAL ARRANGEMENTS OF ENGINEERED SYSTEMS. THE CONTRACTOR SHALL VERIFY CONDITIONS IN THE FIELD AND MAKE ADJUSTMENTS AS NECESSARY TO COMPLETE THE WORK.

1.3. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES FOR ALL WORK, IN ACCORDANCE WITH PROVISIONS OF THE CONTRACT DOCUMENTS. ALTHOUGH SUCH WORK IS NOT SPECIFICALLY INDICATED, FURNISH AND INSTALL ALL SUPPLEMENTARY OR MISCELLANEOUS ITEMS, APPURTENANCES AND DEVICES INCIDENTAL TO OR NECESSARY FOR A SOUND, SECURE AND COMPLETE INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER.

1.4. IT IS THE INTENTION OF THE CONTRACT DOCUMENTS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF FIRST QUALITY.

1.5. CLEAN UP ALL WASTE AND DEBRIS AT THE END OF EACH WORKING DAY AND AS REQUIRED TO KEEP ALL BUILDING AREAS CLEAN, CLEAR AND UNOBSTRUCTED. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL TOOLS, APPLIANCES, SURPLUS MATERIAL AND SCRAP FROM THE JOB SITE. SEE ARCH. DWGS. FOR WASTE DISPOSAL REQUIREMENTS.

1.6. AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL CLEAN THE ENTIRE JOB SITE, INCLUDING ALL NEW SURFACES OF BUILDING, EQUIPMENT AND SYSTEMS, LEAVING THE AREA THOROUGHLY CLEAN, CLEAR AND READY FOR OCCUPANCY.

1.7. ALL SPECIFIED EQUIPMENT AND SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

1.8. WHEREVER THE WORD "PROVIDE" IS USED, IT SHALL MEAN "FURNISHED, INSTALL, BALANCE, ADJUST AND TEST, COMPLETE AND READY FOR USE".

2. WARRANTY

2.1. ALL WORK SHALL BE FREE OF DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF FIVE YEARS FROM DATE OF FINAL ACCEPTANCE. ALL DEFECTS THAT DEVELOP OR ARE DISCOVERED WITHIN THIS PERIOD WILL BE REPAIRED BY THE CONTRACTOR, TO THE SATISFACTION OF THEARCHITECT/ENGINEER AND AT NO ADDITIONAL COST TO THE OWNER.

3. SUBMITTALS

3.1. SUBMIT FOUR SETS OF SHOP DRAWINGS, TO ARCHITECT/ENGINEER AND OBTAIN APPROVAL, PRIOR TO ORDERING OF EQUIPMENT OR MATERIAL AND BEFORE FABRICATION OF COMPONENTS. SUBMIT SHOP DRAWINGS FOR THE FOLLOWING:

3.1.A. AIR DISTRIBUTION DEVICES AND ACCESSORIES.

3.1.B. ALL MANUFACTURED MECHANICAL EQUIPMENT.

4. COORDINATION AND SCHEDULING

4.1. COMPLETELY COORDINATE AND SCHEDULE WORK OF ALL TRADES, SO THAT CONFLICTS IN SCHEDULING AND LOCATION WILL NOT OCCUR.

4.2. CONTRACTOR SHALL REVIEW AND COORDINATE THE INSTALLATION OF NEW SYSTEM(S) AND EQUIPMENT. NO WORK SHALL BE PERFORMED PRIOR TO THE CONTRACTOR OBTAINING EXACT FIELD DIMENSIONS OF STRUCTURAL OBSTRUCTIONS, ETC., WHICH, MAY AFFECT INSTALLATION OF EQUIPMENT OR SYSTEMS.

4.3. NOTIFY THE OWNER, IN WRITING, AT LEAST SEVEN DAYS IN ADVANCE OF ANY REQUIRED SHUTDOWN OF ANY UTILITY. OBTAIN OWNER'S WRITTEN APPROVAL PRIOR TO SHUTDOWN.

4.4. CONTRACTOR SHALL THOROUGHLY EXAMINE PREMISES AND OBSERVE ALL CONDITIONS AND CIRCUMSTANCES UNDER WHICH THE WORK SHALL BE PERFORMED. NO ALLOWANCES WILL BE MADE FOR ERRORS OR NEGLIGENCE IN THIS RESPECT.

5. CODE PERMITS AND INSPECTIONS

5.1 ALL WORK SHALL BE DONE IN ACCORDANCE WITH LATEST APPLICABLE CODES, REGULATIONS AND STANDARDS. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS BY AUTHORITIES HAVING JURISDICTION

5.2 APPROVAL AND SIGN-OFF BY ALL AUTHORITIES HAVING JURISDICTION IS REQUIRED AT THE COMPLETION OF PROJECT. SECURE PERMIT AND INSPECTION CERTIFICATES AND TRANSMIT SAME TO THE OWNER AT THE COMPLETION OF THE PROJECT.

5.3 PERFORM ALL WORK IN ACCORDANCE WITH THE FOLLOWING CODES AND STANDARDS:

5.3.A. INTERNATIONAL MECHANICAL CODE: 2015 AS ADOPTED BY NEW YORK STATE.

5.3.B INTERNATIONAL FUEL GAS CODE: 2015 AS ADOPTED BY NEW YORK STATE.

5.3.C INTERNATIONAL FIRE CODE: 2015 AS ADOPTED BY NEW YORK STATE.

5.3.D INTERNATIONAL BUILDING CODE: 2015 AS ADOPTED BY NEW YORK STATE.

5.3.E INTERNATIONAL ENERGY CONSERVATION CODE: 2015 AS ADOPTED BY NEW YORK STATE.(2016 SUPPLEMENT APPLIES).

5.3.F INTERNATIONAL PLUMBING CODE:2015 AS ADOPTED BY NEW YORK STATE.

5.3.G ASHRAE STANDARD 90.1.2013.

5.3.H SMACNA DUCT CONSTRUCTION STANDARDS: LATEST EDITIONS (3RD EDITION).

5.4 CONTRACTOR SHALL COMPLY WITH ALL OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)AND ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS.

NOTE: 2017 NYS UNIFORM CODE SUPPLEMENT AMENDMENTS APPLY TO THE 2015 CODES.

6. RECORD (AS BUILT) DIAGRAMS

6.1. REPRODUCIBLE RECORD DRAWINGS SHALL BE SUPPLIED BY CONTRACTOR, UPON WHICH CORRECTIONS SHALL BE MADE, TO PROVIDE AN ACCURATE AND COMPLETE RECORD OF THE WORK, AS INSTALLED. ALL DUCTWORK, EQUIPMENT, PIPING AND AIR DISTRIBUTION DEVICES SHALL BE SHOWN AND DIMENSIONED ON THE RECORD DRAWINGS. CONTRACTOR SHALL PROVIDE LATEST AUTOCAD VERSION AS-BUILT DRAWINGS AT THE COMPLETION OF THE PROJECT.

6.2. FULL SIZE AS-BUILT DRAWINGS SHALL BE SUPPLIED AT THE COMPLETION OF THE JOB.

6.3. PROVIDE A COMPLETE SET OF DRAWINGS ON A CD WHEN THE JOB IS COMPLETE.

7. HVAC DESIGN PARAMETERS

1. INDOOR CONDITION:

SUMMER 75°F DB/50%RH

WINTER: 70°F DB

2. OUTDOOR CONDITION:

SUMMER: 89°F DB/ 77° FWB

WINTER: 9° F DB

3. MINIMUM OUTDOOR AIR SUPPLY BASED ON CHAPTER 4 "VENTILATION" IN 2015 NEW YORK STATE MECHANICAL CODE.

SYMBOLS

EXISTING DUCTWORK OR EQUIPMENT TO REMAIN

EQUIPMENT TO BE REMOVED

12x10 — NEW DUCT (1ST DIMENSION INDICATES TOP SHOWN, INSIDE CLEAR DIMENSIONS)

12x10 — DUCTWORK WITH SOUND LINING (DIMENSION INDICATES INSIDE CLEAR DIMENSIONS)

DUCT WORK WITH TRANSITION

RECTANGULAR/SQUARE DUCT TO ROUND DUCT SIZE TRANSITION

VD — MANUAL VOLUME DAMPER

SD — SMOKE DAMPER

M — MOTORIZED DAMPER

BDD — BACK DRAFT DAMPER

FD — FIRE DAMPER

SUPPLY AIR DUCT TO RISE UP

SUPPLY AIR DUCT TO DROP DOWN

RETURN AIR DUCT TO RISE UP

RETURN AIR DUCT TO DROP DOWN

EXHAUST DUCT TO RISE UP

EXHAUST DUCT TO DROP DOWN

ELBOW WITH TURNING VANES

SUPPLY AIR DEVICE

RETURN OR EXHAUST AIR DEVICE

EXHAUST AIR DEVICE

VD — DUCTWORK WITH DUCT BRANCH

VD — DUCTWORK WITH ROUND DUCT TAKE-OFF

OPEN END DUCT WITH CAP

ROUND DUCT TO RISE UP

ROUND DUCT TO DROP DOWN

OVAL DUCT TO RISE UP

OVAL DUCT TO DROP DOWN

FLEXIBLE ROUND DUCT

SIDE WALL GRILLE

CEILING SUPPLY AIR DIFFUSER

LINEAR SLOT DIFFUSER

RETURN AIR GRILLE OPEN TO CEILING

EXHAUST AIR GRILLE

T — EXISTING THERMOSTAT

T — NEW THERMOSTAT

CO2 — CARBON DIOXIDE SENSOR

U — UNDER CUT DOOR, 3/4" CLEAR

SD — DUCT MOUNTED SMOKE DETECTOR

RS — REFRIGERANT SUCTION

RL — REFRIGERANT LIQUID

RG — REFRIGERANT HOT GAS

CD — CONDENSATE DRAIN

1 / 1 — KEYED DRAWING NOTE

EQPM-01 / 100 — EQUIPMENT DESIGNATION TAG; AIR VOLUME IN CFM

AIR DEVICE TAG

EQPM-## / 100 — DIFFUSER TYPE; AIR VOLUME IN CFM

POINT OF DEMOLITION

POINT OF CONNECTION

1 / M-100 — SECTION NUMBER; SHEET NUMBER

ABBREVIATIONS

AC	AIR CONDITIONING UNIT
ACCU	AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP
ARC	AIR CURTAIN
ARCH	ARCHITECTURAL
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BHP	BRAKE HORSE POWER
BLDG	BUILDING
BLW	BELOW
BOD	BASIS OF DESIGN
BTUH	BRITISH THERMAL UNIT PER HOUR
CC	COOLING COIL
CD	CONDENSATE DRAIN
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CLG	CEILING
CS	CURRENT SWITCH
CU	CONDENSING UNIT
CWR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
D	DEMOLITION
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DI	DIGITAL INPUT
DIA	DIAMETER
DN	DOWN
DO	DIGITAL OUTPUT
DOAS	DEDICATED OUTSIDE AIR SYSTEM
DPS	DIFFERENTIAL PRESSURE SWITCH
DWG	DRAWING
E	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EER	ENERGY EFFICIENCY RATING
F	FAHRENHEIT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FL	FLOOR
FPM	FEET PER MINUTE
FT	FEET
FZ	FREEZE STAT
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HGRC	HOT GAS REHEAT COIL
HP	HORSE POWER
HR	HOUR
HS	HUMIDITY SENSOR
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
IN	INCH
KW	KILOWATT
LAN	LOCAL AREA NETWORK
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
LF	LINEAR FEET
LRD	LINEAR RETURN DIFFUSER
LSD	LINEAR SUPPLY DIFFUSER
LWT	LEAVING WATER TEMPERATURE
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MOCP	MAXIMUM OVER CURRENT PROTECTION
MTD	MOUNTED
MCU	MODE CONTROL UNIT
NC	NOISE CRITERIA
NOM	NOMINAL
No.	NUMBER
OA	OUTDOOR AIR
P	PUMP
PD	PRESSURE DROP
PS	PRESSURE SENSOR
R	RELOCATE
RA	RETURN AIR
RAD	RADIATOR
RD	RETURN DIFFUSER
RF	RETURN FAN
RG	RETURN GRILLE
RLA	RELIEF AIR
RLF	RELIEF FAN
RPM	REVOLUTION PER MINUTE
RTU	ROOF TOP UNIT
RWS	REHEAT WATER SUP.
RWR	REHEAT WATER RET.
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SD	SMOKE DETECTOR
SF	SUPPLY FAN
SG	SUPPLY GRILLE
SP	STATIC PRESSURE
T	THERMOSTAT
TS	TEMPERATURE SENSOR
TYP	TYPICAL
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
W	WATT
WB	WET BULB
WC	WATER COLUMN
W/	WITH
W/O	WITHOUT
WMS	WIRE MESH SCREEN

MECHANICAL DRAWING LIST

SHEET	DRAWING	TITLE
1	M-001	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	M-101	FIRST FLOOR PLANS - SOCIAL SCIENCES - MECHANICAL
3	M-102	FIRST FLOOR PLANS - NATURAL SCIENCE - MECHANICAL
4	M-103	MECHANICAL RISER DIAGRAMS
5	M-104	MECHANICAL SCHEDULES
6	M-501	MECHANICAL DETAILS

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Key Plan

Title GENERAL NOTES, SYMBOLS & ABBREVIATIONS

Date	01-16-2020
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Drawing By	SS
CHK By	SHS
Scale	AS NOTED

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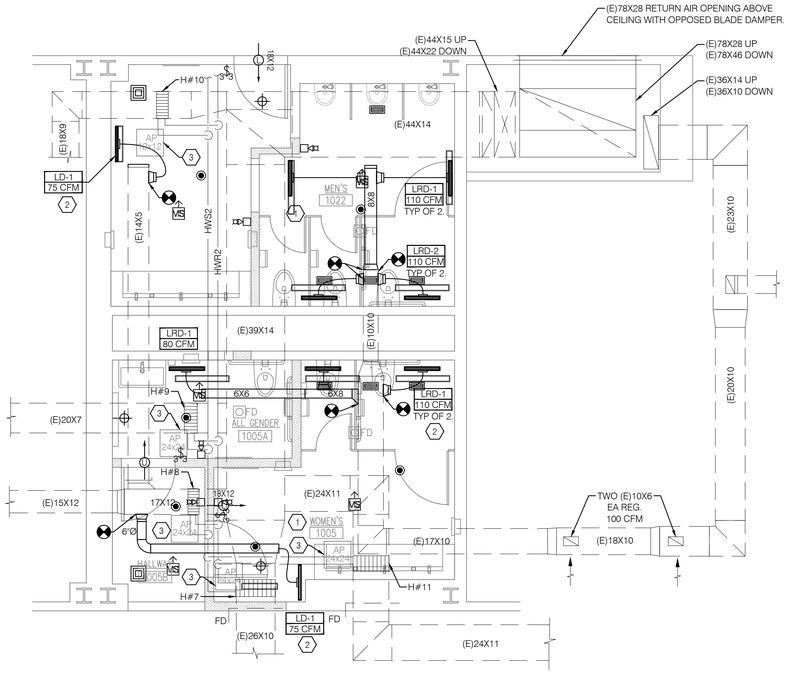
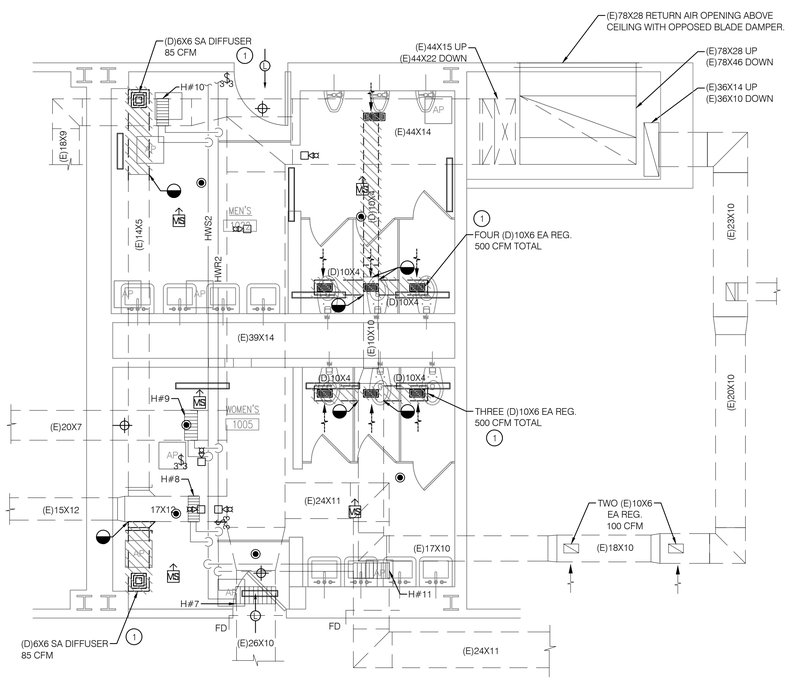


1
M-101

SOCIAL SCIENCES FIRST FLOOR PLAN - MECHANICAL NEW WORK

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

N



2
M-101

SOCIAL SCIENCES FIRST FLOOR PLAN - MECHANICAL DEMOLITION

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

N

GENERAL NOTES

A. PROVIDE ADEQUATE ACCESS TO ALL HVAC AND ALL OTHER EQUIPMENT.

B. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCTWORK OFFSETS, TRANSITIONS, ETC. AS REQUIRED FOR PROPER INSTALLATION.

C. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO PURCHASING EQUIPMENT.

D. ALL EXISTING RADIATORS AND NEW HOT WATER PIPING SHALL BE CHECKED FOR PROPER OPERATION AND PIPES AND ACCESSORIES SHALL BE CLEANED & REFURBISHED.

E. UNLESS OTHERWISE SHOWN AS (N) NEW OR (R) RELOCATED, ALL EXISTING RADIATOR TO REMAIN.

F. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING M001.

G. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SIZE AND LOCATION OF ACCESS PANEL WITH MECHANICAL DRAWINGS AND REFER ARCHITECTURAL DOCUMENTS FOR MATERIAL AND FINISH DETAILS.

DEMOLITION KEY NOTES

1. REMOVE DEMOLITION DUCTWORK, REGISTERS, GRILLES, DAMPERS, AIR DEVICES, HANGERS, AND SUPPORTS. ANY WALL PENETRATIONS CREATED BY THIS, SHALL BE CLOSED AND SEALED BY CONTRACTOR (TYPICAL).

NEW WORK KEY NOTES

1. ALL DUCTWORKS TO REMAIN UNLESS OTHERWISE NOTED. (TYPICAL).
2. PROVIDE NEW SUPPLY AND EXHAUST LINEAR DIFFUSER (TYPICAL).
3. PROVIDE NEW ACCESS PANEL (TYPICAL).

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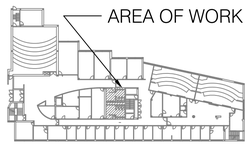

Title FIRST FLOOR PLANS - SOCIAL SCIENCES - MECHANICAL

Date	01-16-2020
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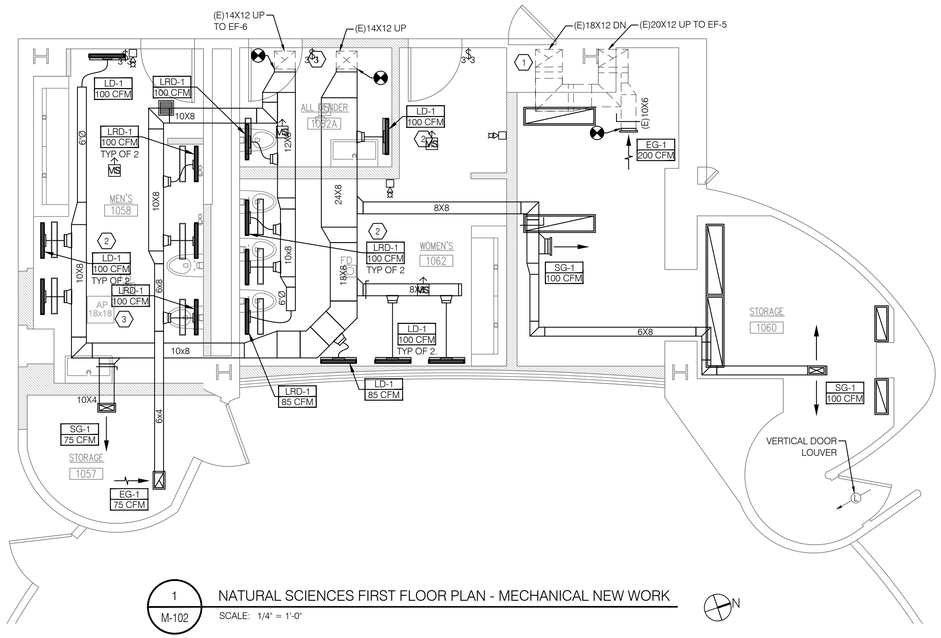
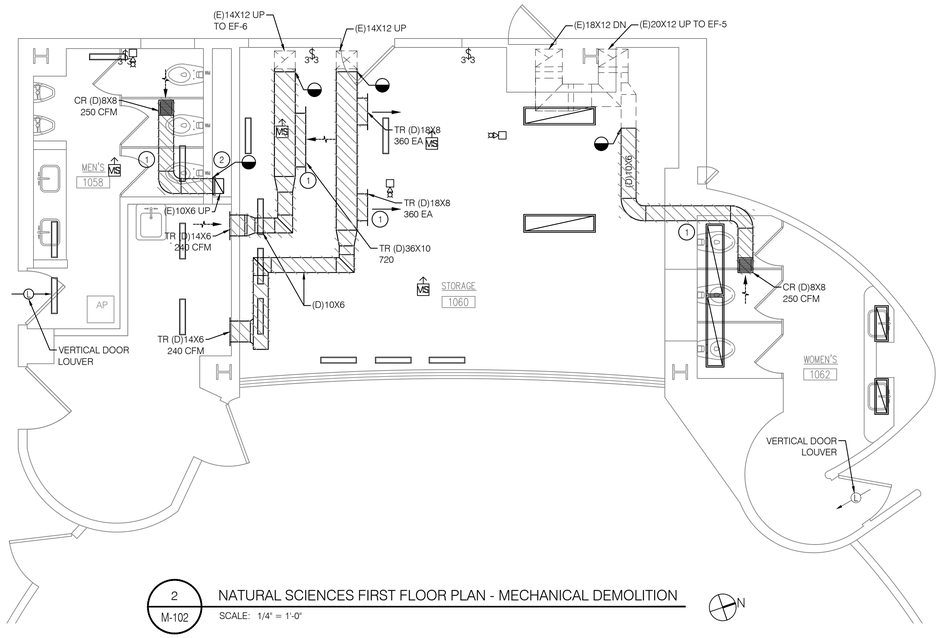


1 / M-102 NATURAL SCIENCES FIRST FLOOR PLAN - MECHANICAL NEW WORK

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



2 / M-102 NATURAL SCIENCES FIRST FLOOR PLAN - MECHANICAL DEMOLITION

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

GENERAL NOTES

A. PROVIDE ADEQUATE ACCESS TO ALL HVAC AND ALL OTHER EQUIPMENT.

B. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DUCTWORK OFFSETS, TRANSITIONS, ETC. AS REQUIRED FOR PROPER INSTALLATION.

C. CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT DIMENSIONS PRIOR TO PURCHASING EQUIPMENT.

D. ALL EXISTING RADIATORS AND NEW HOT WATER PIPING SHALL BE CHECKED FOR PROPER OPERATION AND PIPES AND ACCESSORIES SHALL BE CLEANED & REFURBISHED.

E. UNLESS OTHERWISE SHOWN AS (N) NEW OR (R) RELOCATED, ALL EXISTING RADIATOR TO REMAIN.

F. FOR SYMBOLS, ABBREVIATIONS AND GENERAL NOTES, SEE DRAWING M001.

G. CONTRACTOR IS RESPONSIBLE TO COORDINATE THE SIZE AND LOCATION OF ACCESS PANEL WITH MECHANICAL DRAWINGS AND REFER ARCHITECTURAL DOCUMENTS FOR MATERIAL AND FINISH DETAILS.

DEMOLITION KEY NOTES

1. REMOVE DEMOLITION DUCTWORK, REGISTERS, GRILLES, DAMPERS, AIR DEVICES, HANGERS, AND SUPPORTS. ANY WALL PENETRATIONS CREATED BY THIS, SHALL BE CLOSED AND SEALED BY CONTRACTOR (TYPICAL).
2. CAP AND SEAL EXISTING DUCT OPENING NOT IN USE. CONTRACTOR TO VERIFY IN FIELD.

NEW WORK KEY NOTES

1. ALL DUCTWORKS TO REMAIN UNLESS OTHERWISE NOTED. (TYPICAL).
2. PROVIDE NEW SUPPLY AND EXHAUST LINEAR DIFFUSER (TYP.)
3. PROVIDE NEW ACCESS PANEL (TYPICAL).

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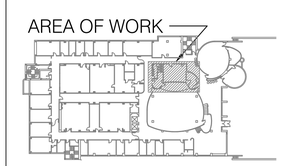

Title FIRST FLOOR PLANS - NATURAL SCIENCE - MECHANICAL

Date	01-16-2020
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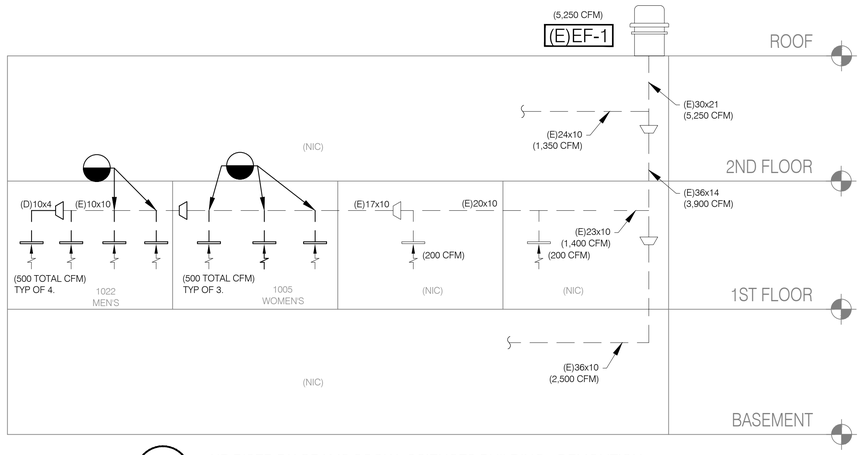
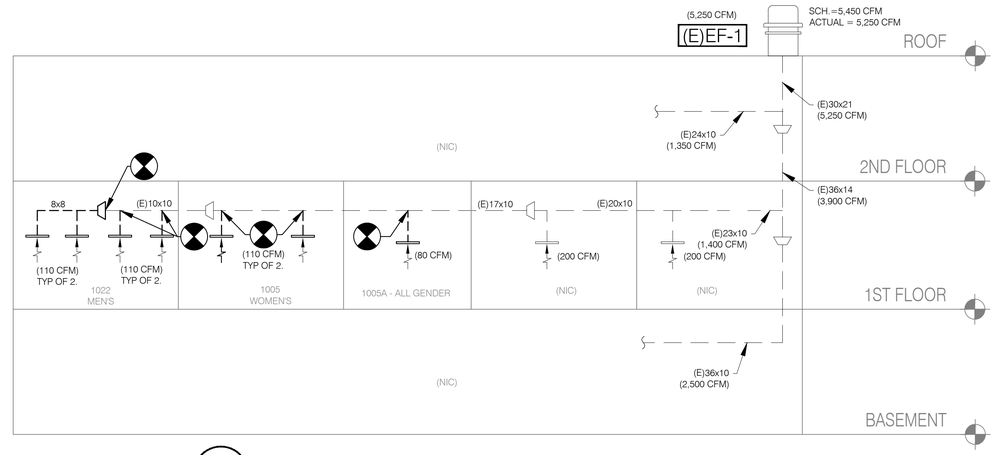


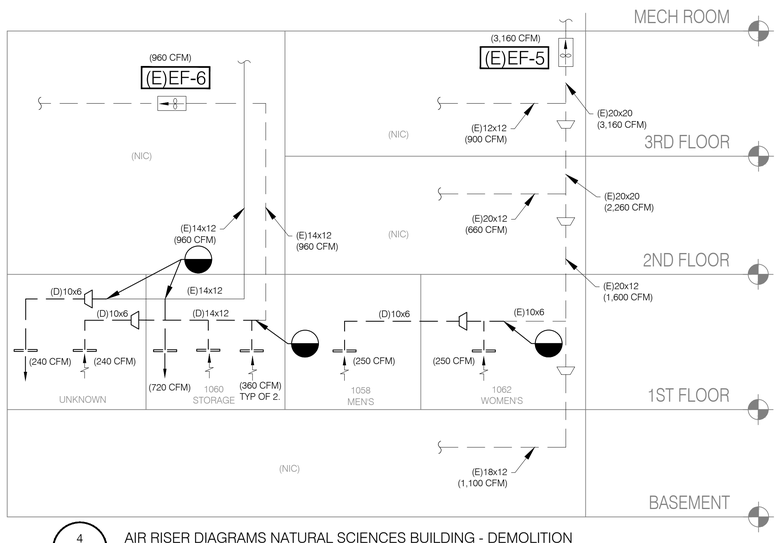
3 M-501 AIR RISER DIAGRAMS SOCIAL SCIENCES BUILDING - DEMOLITION

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



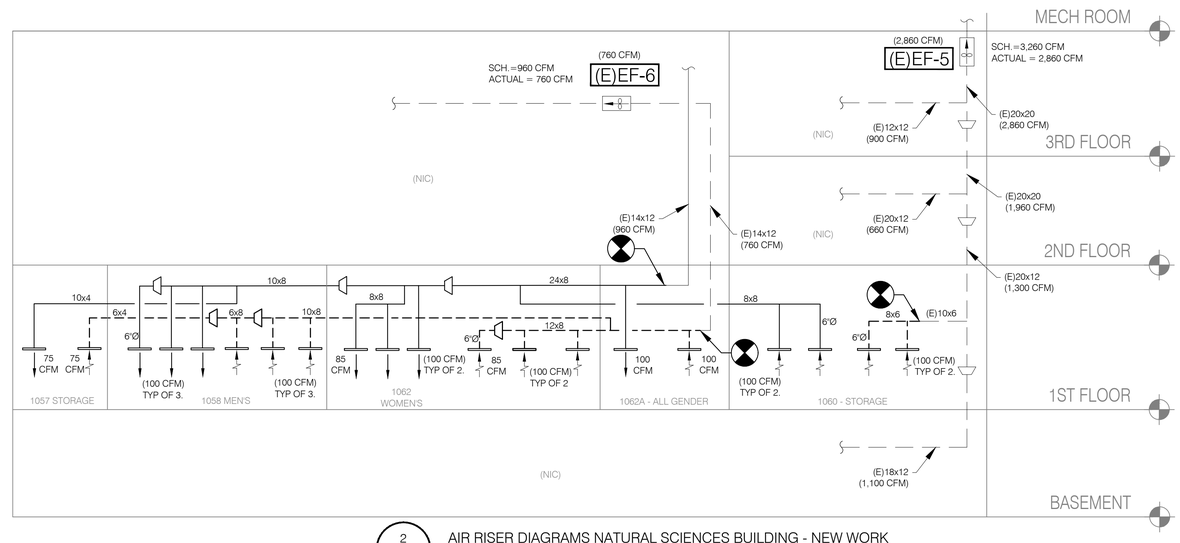
1 M-501 AIR RISER DIAGRAMS SOCIAL SCIENCES BUILDING - NEW WORK

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



4 M-501 AIR RISER DIAGRAMS NATURAL SCIENCES BUILDING - DEMOLITION

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



2 M-501 AIR RISER DIAGRAMS NATURAL SCIENCES BUILDING - NEW WORK

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

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Scale	AS NOTED

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AIR DEVICE SCHEDULE

UNIT TAG	SERVICE	CFM RANGE	MAX SP (IN WG)	MAX NC	NECK SIZE (IN)	SIZE	DEVICE TYPE	BASIS OF DESIGN	REMARKS
LD-1	SUPPLY	55 CFM/LF	0.1	23	-	2-SLOT, 1" SLOT WIDTH, 2' LENGTH	LINEAR SLOT DIFFUSER	TITUS-ML39	1,2,3,4,5
LRD-1	RETURN	60 CFM/LF	0.1	14	-	2-SLOT, 1" SLOT WIDTH, 2' LENGTH	LINEAR SLOT DIFFUSER	TITUS-MLR39	1,2,3,4,5
LR-1	RETURN	75 CFM/LF	0.1	22	-	2-SLOT, 1" SLOT WIDTH, 3' LENGTH	LINEAR SLOT DIFFUSER	TITUS-MLR39	1,2,3,4
SG-1	SUPPLY	0-100	0.1	-	10x4	12x6	SUPPLYY GRILLE	TITUS 300RL	1,2,3,4
EG-1	EXHAUST	0-200	0.1	-	10x6	12x8	EXHAUST GRILLE	TITUS 350RL	1,2,3,4

NOTES:
1. PROVIDE OPPOSED BLADE DAMPERS IN ALL DIFFUSERS & GRILLES WITH SCREWDRIVER ADJUSTMENT ACCESSIBLE THROUGH FACE OF THE GRILLE.
2. DIFFUSER/GRILLES SHALL BE TESTED IN ACCORDANCE WITH ANSI/ASHRAE STANDARD 70-2006.
3. DIFFUSER/GRILLES SHALL BE CONSTRUCTED OF 24 GAUGE STEEL.
4. PROVIDE FRAME/BORDER TYPE AS REQUIRED FOR INSTALLATION.
5. ML/MLR TYPE LINEAR DIFFUSERS SHALL BE PROVIDED WITH MP TYPE PLENUM BOX.

EXISTING EXHAUST FAN SCHEDULE (FOR REFERENCE ONLY)

UNIT NO	BLDG.	LOCATION	SERVICE	DRIVE	CFM	S.P IN WG	TIP VEL. F.P.M	FAN RPM	MOTOR (HP)	ELECTRICAL	SOUND RATING SONES	BASIS OF DESIGN	REMARKS
(E)EF-1	SOCIAL SCIENCES	ROOF	GENERAL EXH.	-	5,450	-	5,100	630	1-1/2	480/3/60	4.7	JENN-AIR-304 BCR	3, 7
(E)EF-5	NATURAL SCIENCE	MECH ROOM	TOILET EXH.	BELT	3,260	2	1,430	2,420	3	-	-	NEW YORK BLOWER - T157	1, 4, 7
(E)EF-6	NATURAL SCIENCE	MECH ROOM	PROJ. RM. EXH.	BELT	960	2	630	2162	3/4	-	-	NEW YORK BLOWER - T157	1, 5, 7

NOTES:
1. TYPE IN-LINE CENTRIFUGAL FAN.
2. EXISTING EF-1 VALUE IS SHOWN IN THE SCHEDULE AS 5,450 CFM. HOWEVER, THE EXISTING CONNECTED TOTAL CFM TO THE FAN IS 5,250 CFM AND THE NEW CONNECTED CFM TO THE FAN IS 5,250. BALANCE FAN TO 5,250 CFM VALUE.
3. EXISTING EF-5 VALUE IS SHOWN IN THE SCHEDULE AS 3,260 CFM. HOWEVER, THE EXISTING CONNECTED TOTAL CFM TO THE FAN IS 3,160 CFM AND THE NEW CONNECTED CFM TO THE FAN IS 2,860. BALANCE FAN TO 2,860 CFM VALUE.
4. EXISTING EF-6 VALUE IS SHOWN IN THE SCHEDULE AS 960 CFM. HOWEVER, THE EXISTING CONNECTED TOTAL CFM TO THE FAN IS 960 CFM AND THE NEW CONNECTED CFM TO THE FAN IS 760. BALANCE FAN TO 760 CFM VALUE.
5. ALL INFORMATION IN THIS TABLE HAS BEEN OBTAINED FROM EXIISTING DRAWINGS.

CONVECTORS SCHEDULE

UNIT NO	TYPE	SIZE			MBH	GPM	EWT (DEG.)	TEMP DROP (DEG.)	CFM	ELECTRICAL	BASIS OF DESIGN
		LENGTH	DEPTH	HEIGHT						V/PH/HZ	
C-1	RECESSED	32"	4"	24"	3.8	0.38	190	20	-	-	TRANE - RG
C-2	RECESSED	32"	4"	24"	3.6	0.36	190	20	-	-	TRANE - RG

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MECHANICAL SCHEDULES

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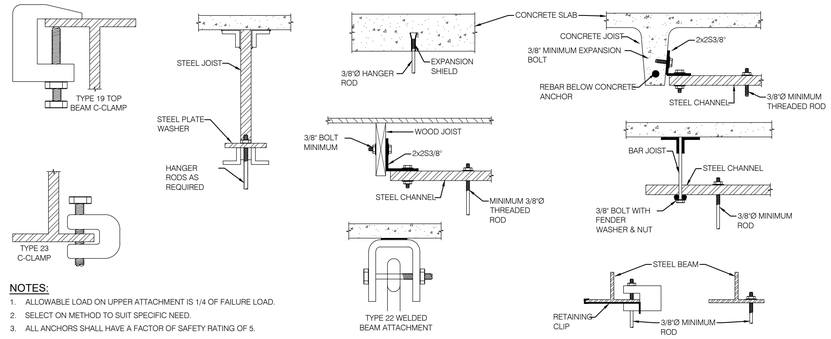
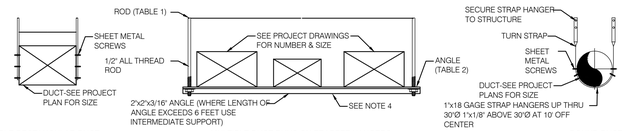


NOTES:

1. ALLOWABLE LOAD ON UPPER ATTACHMENT IS 1/4 OF FAILURE LOAD.
2. SELECT ON METHOD TO SUIT SPECIFIC NEED.
3. ALL ANCHORS SHALL HAVE A FACTOR OF SAFETY RATING OF 5.

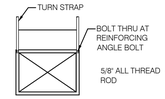
LOW PRESSURE DUCTWORK (UP THRU 2" WG)



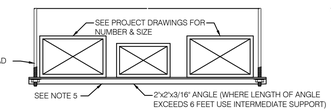
(TABLE 1)

MAXIMUM ALLOWABLE HANGER LOAD			
STRAPS	LBS	RODS	LBS
2-1"x22 GA	520	2-1/4" Ø	540
2-1"x20 GA	640	2-3/8" Ø	1360
2-1"x18 GA	840	2-1/2" Ø	2500
2-1"x16 GA	1400	2-5/8" Ø	4000

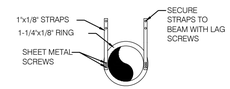
SINGLE RECTANGULAR DUCT



MULTIPLE DUCT RUNS ON TRAPEZE HANGERS



ROUND DUCT



(TABLE 2)

MAXIMUM ALLOWABLE TRAPEZE ANGLE LOAD		
L	2"X2"X1/4"	2-1/2"x2-1/2"x1/4"
36"	1200 LBS	1940 LBS
48"	1160 LBS	1900 LBS
60"	1060 LBS	1800 LBS
72"	900 LBS	1640 LBS
84"	660 LBS	1400 LBS
96"	320 LBS	1060 LBS

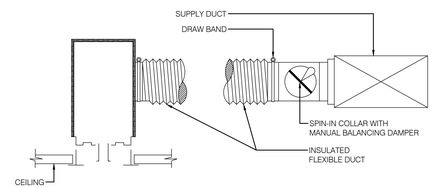
MEDIUM AND HIGH PRESSURE DUCTWORK (2" WG TO 10" WG)

NOTES:

1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOADS.
2. PROVIDE HIGH DENSITY INSERT AT TRAPEZE FOR INSULATED DUCTS.
3. SEE STRUCTURAL DRAWINGS FOR DETAILS FOR SECURING RODS TO STRUCTURE.
4. DUCTS SHALL BE SUPPORTED AT NOT LESS THAN 10 FT. OFF CENTER.
5. DUCTS SHALL BE SUPPORTED AT NOT LESS THAN 8 FT. OFF CENTER.

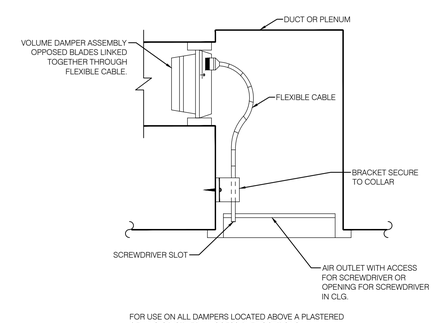
1 / M-701 TYPICAL DUCT HANGERS & SUPPORTS

SCALE: NOT TO SCALE



2 / M-701 TYPICAL LINEAR DIFFUSER DETAIL

SCALE: NOT TO SCALE



FOR USE ON ALL DAMPERS LOCATED ABOVE A PLASTERED CEILING OR OTHER INACCESSIBLE LOCATIONS.

3 / M-701 REMOTE DAMPER OPERATOR FOR INACCESSIBLE DAMPER LOCATIONS

SCALE: NOT TO SCALE

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Rev	Date	Issue
	2/27/2020	Issue for SD Review
	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	7/1/2020	Pre-Bid Documents
	11/17/2020	Issued for Bid

Key Plan

Title

MECHANICAL DETAILS

Date	01-16-2020
Project No.	1944
Drawing By	SS
CHK By	SHS
Scale	AS NOTED

DOB Rev

M-701.00

ELECTRICAL GENERAL NOTES

1. INSTALLATION OF ALL WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING REGULATIONS, CODES, ETC.
   A. LOCAL CODES AND ORDINANCES
   B. THE EDITION OF THE NATIONAL ELECTRICAL CODE NFPA 70 (NEC) IN EFFECT..
2. CONTRACTOR TO PROVIDE SUFFICIENT NOTICE TO THE OWNERS REPRESENTATIVE PRIOR TO ANY WORK TO ALLOW ADEQUATE TIME FOR COORDINATION OF EXISTING SITE ACTIVITIES WITH THE CONSTRUCTION WORK.
3. CONTRACTOR TO INCLUDE IN THEIR SCOPE ALL LABOR, MATERIALS, SERVICES, APPARATUS AND SHOP DRAWINGS IN ADDITION TO THE CONTRACT DOCUMENTS AS REQUIRED TO COMPLY WITH ALL APPLICABLE GOVERNING LAWS, CODES AND JURISDICTION REQUIREMENTS. PROVIDE ELECTRICAL EQUIPMENT WITH ALL ASSOCIATED ACCESSORIES, BRANCH CIRCUIT WIRING AND CONDUIT INFRASTRUCTURE AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
4. ALL MATERIALS AND WORK SHALL BE ACCORDING TO PROJECT SPECIFICATIONS.
5. IF MATERIAL OR EQUIPMENT IS INSTALLED BEFORE IT IS APPROVED, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL CHARGE IF IN THE OPINION OF THE ARCHITECT OR ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE DRAWINGS AND/OR SPECIFICATIONS.
6. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION, ELEVATION, MOUNTING HEIGHTS AND DETAILS OF ALL LIGHT FIXTURES AND DEVICES. REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
7. ALL NEW SLAB PENETRATIONS MUST BE X-RAYED OR RADAR PRIOR TO CORE DRILLING. OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO ANY CORE DRILLING.
8. CONTRACTOR TO PROVIDE ALL LIGHT FIXTURE AND EQUIPMENT WITH INTEGRAL OR REMOTE MOUNTED ACCESSORY DEVICES WITH ALL NECESSARY COMPONENTS, BRANCH CIRCUIT WIRING AND CONDUITS TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM. CONTRACTOR TO MAKE ALL FINAL CONNECTIONS TO THE EQUIPMENT.
9. ELECTRICAL SYSTEMS SHALL BE GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
10. PROVIDE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS INSTALLED IN RACEWAYS. THE DEDICATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED PER NEC SECTION 250.122. SOLE USE OF METAL RACEWAY AS A GROUNDING CONDUCTOR SHALL NOT BE ACCEPTABLE. WIRING METHODS SHALL BE IN ACCORDANCE WITH NEC SECTION 518.4 FOR ALL ASSEMBLY AREAS.
11. PROVIDE RED COLOR LOCKABLE TYPE BREAKERS FOR CIRCUITS SERVING LIFE SAFETY PANEL BOARDS.
12. NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. PROVIDE THE NUMBER AND SIZE AS NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER SPECIFICALLY INDICATED ON PLAN OR NOT.
13. PROVIDE EACH CIRCUIT HOMERUN WITH A DEDICATED NEUTRAL CONDUCTOR AND INSULATED EQUIPMENT GROUNDING CONDUCTOR.
14. GANG ALL SWITCHES INSTALLED AT THE SAME LOCATION UNDER A SINGLE COVER PLATE. PROVIDE BARRIERS WITHIN THE SWITCH BACK BOX AS REQUIRED TO SEPARATE 120V CIRCUITS FROM 277V CIRCUITS.
15. ALL BACK BOXES INSTALLED IN PARTITION WALLS SHALL BE STAGGERED. BACK-TO-BACK INSTALLATION IS NOT PERMITTED.
16. PROVIDE ACCESS PANELS FOR ALL INACCESSIBLE JUNCTION BOXES AS REQUIRED BY THE N.E.C.
17. PROVIDE PLASTER RING WITH PULL STRING TO SPACE ABOVE SUSPENDED CEILING FOR ALL TELEPHONE, DATA, FAX, MODEM, CATV, CARD READER, ETC. OUTLETS INSTALLED IN HOLLOW PARTITIONS. PROVIDE 3/4" EMPTY CONDUIT AND PULL STRING TO SPACE ABOVE SUSPENDED CEILING FOR THESE OUTLETS INSTALLED IN AN INSULATED PARTITION. PROVIDE 1" EMPTY CONDUIT WITH PULL STRINGS FOR DATA/TEL OUTLETS.
18. CONTRACTOR TO TEST AND VERIFY THE CAPACITY OF THE EXISTING FIRE ALARM SYSTEM SERVING BUILDING PRIOR TO STARTING ANY ASSOCIATED WORK. REPORT IN WRITING, THE TEST RESULTS INCLUDING ANY DEFICIENCIES IDENTIFIED WITHIN THE EXISTING SYSTEM. SUBMIT ASSOCIATED COSTS FOR OWNERS APPROVAL TO REPLACE AND/OR PROVIDE ADDITIONAL EQUIPMENT AND COMPONENTS AS REQUIRED TO ENSURE A COMPLETE AND OPERATIONAL SYSTEM.
19. PROVIDE FIRE ALARM INTERFACE HARDWARE, MODULES AND WIRING TO ALL ELECTRICALLY SECURED DOORS. COORDINATE WITH BUILDING SECURITY SYSTEM.
21. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL, PLUMBING AND OTHER TRADES TO PROVIDE ALL EQUIPMENT ASSOCIATED WITH THEIR RESPECTIVE TRADES WITH NECESSARY WIRING AND CONDUIT INFRASTRUCTURE FOR ALL SENSORS, CONTROL SYSTEMS AND REMOTE MOUNTED CONTROL PANELS AS REQUIRED.
22. CONTRACTOR TO PROVIDE DEDICATED CIRCUIT FOR CONNECTION TO EACH MECHANICAL, PLUMBING AND MISCELLANEOUS EQUIPMENT CONTROL PANELS AS REQUIRED. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH MECHANICAL AND CONTROLS CONTRACTORS.
23. CONTRACTOR TO COORDINATE ELECTRICAL WORK TO AVOID INTERFERENCE BETWEEN ALL TRADES.
   A. DETERMINE INTERFERENCE BEFORE WORK IS FABRICATED OR INSTALLED. THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL DETAILS OF WORK AND WORKING CONDITIONS AND COORDINATE WORK DURING PRELIMINARY STAGES TO ENSURE ACTUAL ERECTION WILL PROCEED WITHOUT INTERFERENCE. COORDINATION IS OF PARAMOUNT IMPORTANCE AND REQUESTS FOR ADDITIONAL PAYMENT WILL BE CONSIDERED WHERE REQUEST IS BASED ON INTERFERENCE.
   B. WHERE JOB CONDITIONS REQUIRE REASONABLE DEVIATIONS FROM CONTRACT DOCUMENTS, MAKE DEVIATIONS WITHOUT ADDITIONAL COST TO OWNER, AFTER OBTAINING APPROVAL OF ARCHITECT.
   C. PROVIDE MAXIMUM PRACTICAL SPACE FOR OPERATION, REPAIR, REMOVAL, AND TESTING OF ELECTRICAL EQUIPMENT. DEVIATIONS MAY BE MADE TO PROVIDE REQUIRED ACCESSIBILITY PROVIDED THEY ARE APPROVED BY THE OWNERS OR THE ARCHITECTS.
   D. KEEP CONDUITS, WIRE WAYS AND SIMILAR ITEMS AS CLOSE AS POSSIBLE TO CEILING, WALLS AND COLUMNS IN ORDER TO TAKE UP MINIMUM AMOUNT OF SPACE. ALL WORK TO BE IN STALLED IN A NEAT AND WORK MAN LIKE MANNER.
   E. PROVIDE OFFSETS, FITTINGS AND SIMILAR ITEMS NECESSARY TO ACCOMPLISH REQUIREMENTS OF COORDINATION WITHOUT ADDITIONAL EXPENSE TO OWNER.
   F. PROVIDE ACCESS TO AND CLEARANCES AROUND ELECTRICAL EQUIPMENT AS REQUIRED BY THE N.E.C.

120V BRANCH CIRCUIT WIRING CONDUCTOR SIZE

DEPENDING ON BRANCH CIRCUIT RUN LENGTH FROM PANELBOARD TO THE LAST DEVICE ON THE BRANCH CIRCUIT, THE CONTRACTOR SHALL INCREASE THE BRANCH CIRCUIT WIRE SIZE AS PER THE TABLE BELOW.

MAXIMUM #10 WIRE SHALL BE USED FOR GENERAL RECEPTACLE CIRCUIT WIRING.

LENGTH (FEET)	VOLTAGE (V)	AMPACITY (A)	WIRE SIZE (AWG TYP.)
0-66	120	20	#12
0-102	120	20	#10

V

ELECTRICAL GENERAL DEMOLITION NOTES

1. GENERAL:
   A. BEFORE SUBMITTING THEIR BID, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE TO VERIFY THE EXISTING CONDITIONS AND SCOPE OF WORK AREA. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT THE SITE, NOR FOR ANY ALLEGED MISUNDERSTANDING OF WORK TO BE PERFORMED. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL LABOR AND MATERIAL THAT MAY AFFECT HIS WORK.
   B. THE GENERAL EXTENT OF EXISTING ELECTRICAL WORK TO BE DISMANTLED AND REMOVED OR RELOCATED IS INDICATED ON THE DRAWINGS.
   C. ALL COMPONENTS ASSOCIATED WITH SYSTEMS AND EQUIPMENT TO BE REMOVED OR RELOCATED MAY NOT BE SPECIFICALLY INDICATED. REMOVE ALL ASSOCIATED ELECTRICAL ACCESSORIES AND COMPONENTS INCLUDING BUT NOT LIMITED TO HANGERS, WIRING, CONDUIT, BOXES AND ALL ADDITIONAL MISCELLANEOUS ITEMS RELATED TO THE EXISTING EQUIPMENT INDICATED TO BE REMOVED OR RELOCATED. REMOVE ALL ASSOCIATED WIRING AND CONDUIT BACK TO THE SOURCE OF SUPPLY IN EXISTING CIRCUITS WHICH ARE TO BE DEMOLISHED. UNLESS SPECIFICALLY INDICATED, NO EQUIPMENT, MATERIALS OR ASSOCIATED COMPONENTS SHALL BE ABANDONED IN PLACE.
   D. ABANDON ALL CONDUITS CONCEALED IN CONCRETE WALLS OR SLABS. REMOVE ALL WIRING FROM ABANDONED CONDUITS BACK TO SOURCE OF SUPPLY.
2. DISPOSAL OF DEMOLITION:
   A. CONTRACTOR SHALL CLEAN THE PROJECT SITE AT THE END OF EACH WORKING DAY. NOTIFY THE BUILDING OWNER PRIOR TO DISPOSAL OF DEMOLISHED MATERIALS TO ALLOW SALVAGE OF ANY USABLE MATERIALS. AFTER INSPECTION FROM THE OWNER'S REPRESENTATIVE, ALL UNUSED MATERIALS SHALL BE REMOVED FROM THE JOB SITE WITH DISPOSAL IN ACCORDANCE WITH APPLICABLE SPECIFICATIONS AND REGULATIONS.
3. PROTECTION:
   A. PROTECT FROM DAMAGE ALL EXISTING EQUIPMENT, DEVICES AND MATERIALS TO REMAIN. ANY EXISTING MATERIALS AND EQUIPMENT DAMAGED DURING THE COURSE OF THE CONSTRUCTION PROCESS SHALL BE REPLACED WITH MATERIALS AND EQUIPMENT CONFORMING TO EXISTING SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.
4. TERMINATION AND PATCHING:
   A. DISCONNECT EXISTING EQUIPMENT AND DEVICES WITH ASSOCIATED ACCESSORIES, CONDUIT AND WIRING BACK TO SOURCE OF SUPPLY.
   B. WHERE EXISTING FLOORS, WALLS AND ROOFS MUST BE CUT OR ARE DAMAGED DURING THE CONSTRUCTION PROCESS, PATCH THE CUT OR DAMAGED AREAS TO MATCH THE ADJACENT CONSTRUCTION.
   C. THE CONTINUITY OF ALL EXISTING CONDUITS AND FEEDERS SERVICING AREAS AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED. MODIFY THE EXISTING CIRCUITS IF REQUIRED IN ORDER TO MAINTAIN THE EXISTING CIRCUITRY.

FIRE ALARM SYMBOL LIST

AV / HAV — CEILING/WALL MOUNTED FIRE ALARM COMBINATION AUDIO (HORN)/VISUAL DEVICE, ADA COMPLIANT NUMBER DENOTES CANDELA INTENSITY RATING, MINIMUM 15cd, MOUNTING HEIGHT FROM 80" UP TO A MAXIMUM OF 96" AFF

V / HV — CEILING/WALL MOUNTED FIRE ALARM VISUAL DEVICE (STROBE), ADA COMPLIANT NUMBER DENOTES CANDELA INTENSITY RATING, MINIMUM 15cd, MOUNTING HEIGHT FROM 80" UP TO A MAXIMUM OF 96" AFF

COMcheck Software Version 4.1.3.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Restroom Renovation Purchase College
Project Type: Alteration

Construction Site:
735 Anderson Hill Road
Purchase, NY 10577

Owner/Agent:
Purchase College
735 Anderson Hill Road
Purchase, NY 10577

Designer/Contractor:
Setty and Associates
149W 36th Street
8th floor
New York, NY 10018

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Men's 1022 (Common Space Types:Restrooms)	244	0.85	207
2-Women's 1005 (Common Space Types:Restrooms)	143	0.85	122
3-Hallway 1005B (Common Space Types:Corridor/Transition <8 ft wide)	38	0.66	25
4-All Gender 1005A (Common Space Types:Restrooms)	55	0.85	47
5-Men's 1058 (Common Space Types:Restrooms)	171	0.85	145
6-Women's 1062 (Common Space Types:Restrooms)	208	0.85	177
7-All gender 1062A (Common Space Types:Restrooms)	64	0.85	54
		Total Allowed Watts =	777

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Men's 1022 (Common Space Types:Restrooms 244 sq.ft.)				
LED 1: L1: Celeste linear light: Other:	1	1	14	14
LED 2: L1: Celeste linear light: Other:	1	1	15	15
LED 3: L1: Celeste linear light: Other:	1	1	20	20
LED 4: L2: Round Shower Trim (UR4C): Other:	1	11	10	110
Women's 1005 (Common Space Types:Restrooms 143 sq.ft.)				
LED 6: L1: Celeste linear light: Other:	1	1	15	15
LED 7: L1: Celeste linear light: Other:	1	1	14	14
LED 8: L2: Round Shower Trim (UR4C): Other:	1	6	10	60
LED 7.1: L1: Celeste linear light: Other:	1	1	10	10
Hallway 1005B (Common Space Types:Corridor/Transition <8 ft wide 38 sq.ft.)				
LED 9: L4: Flush mount round (Boop): Other:	1	1	23	23
All Gender 1005A (Common Space Types:Restrooms 55 sq.ft.)				
LED 10: L1: Celeste linear light: Other:	1	1	18	18
LED 11: L2: Round Shower Trim (UR4C): Other:	1	2	10	20
Men's 1058 (Common Space Types:Restrooms 171 sq.ft.)				

Project Title: Restroom Renovation Purchase College — Report date: 11/16/20
Data filename: N:\SAP\2020\SAPX206002.00\26-SAPX206002.00_E\08-ENERGY MODELS-COMCHECK\2018 IECC COM CHECK WITHOUT VISUAL ARTS.cck — Page 1 of 7

ELECTRICAL SYMBOL LIST

(STANDARD SYMBOLS ONLY, ALL SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT)

1. REFER TO THE LIGHTING FIXTURE SCHEDULE ON DRAWING E601 FOR LIGHTING FIXTURE SPECIFICATIONS.
2. REFER TO DETAIL ON DRAWING E701 FOR TYPICAL DEVICE MOUNTING HEIGHTS.

EXIT SIGN LIGHTING FIXTURES ON EMERGENCY LIGHTING CIRCUIT

TYPICAL INTERIOR LIGHTING FIXTURES

EM — TYPICAL INTERIOR LIGHTING FIXTURES ON EMERGENCY LIGHTING CIRCUIT, FIXTURES MAY HAVE THE FOLLOWING SUBSCRIPTS:
EM : EMERGENCY
NL : NIGHT LIGHT

WALL-MOUNTED DUPLEX OR QUAD RECEPTACLE, 20A, 125V, NEMA 5-20R

$W — LUTRON 2-BUTTON PICO WIRELESS SWITCH. LOWERCASE LETTER SWITCHES MAY HAVE THE FOLLOWING SUBSCRIPTS:
a: LOWER CASE SUBSCRIPT INDICATES LIGHTING ZONE IDENTIFICATION. IF NO LETTER SHOWN, SWITCH SHALL CONTROL ALL LIGHT FIXTURES IN THE ROOM.

2 MS / MS — LUTRON WALL/CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR SWITCH CONFIGURED AS AUTO-ON, AUTO OFF, CONFIGURE TIME-OUT SETTING FOR 15 MINUTES UNLESS OTHERWISE NOTED, DEVICES MAY HAVE THE FOLLOWING SUBSCRIPTS:
2 : DUAL SWITCH
a,b : LIGHTING ZONE(S) CONTROLLED BY SENSOR

2 VS / VS — LUTRON WALL/CEILING MOUNTED LOW VOLTAGE VACANCY SENSOR SWITCH CONFIGURED AS MANUAL ON, AUTO OFF, CONFIGURE TIME-OUT SETTING FOR 15 MINUTES. UNLESS OTHERWISE NOTED, DEVICES MAY HAVE THE FOLLOWING SUBSCRIPTS:
a,b :LIGHTING ZONE(S) CONTROLLED BY SENSOR. IF NO LETTER SHOWN, SWITCH SHALL CONTROL ALL LIGHT FIXTURES IN THE ROOM

WALL/CEILING/FLOOR MOUNTED JUNCTION BOX. JUNCTION BOXES MAY HAVE THE FOLLOWING SUBSCRIPTS TO INDICATE THE FUNCTIONAL PURPOSE:
HD :HAND DRYER

NON-FUSIBLE DISCONNECT SWITCH

FUSIBLE DISCONNECT SWITCH

COMBINATION STARTER DISCONNECT SWITCH

T — DRY TYPE TRANSFORMER

120/208V ELECTRICAL PANEL

480/277V ELECTRICAL PANEL

PANEL-XX — CIRCUIT NUMBER DESIGNATION FEEDING ELECTRICAL DEVICES, FIXTURES AND EQUIPMENT.
PANEL : INDICATES THE PANEL NAME
XX : INDICATES THE CIRCUIT NUMBER

KEYED DRAWING NOTE

GROUND BUS BAR

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
LED 12: L1: Celeste linear light: Other:	1	1	25	25
LED 13: L1: Celeste linear light: Other:	1	1	23	23
LED 14: L1: Celeste linear light: Other:	1	1	14	14
LED 15: L2: Round Shower Trim (UR4C): Other:	1	7	10	70
Women's 1062 (Common Space Types:Restrooms 208 sq.ft.)				
LED 16: L1: Celeste linear light: Other:	1	2	8	16
LED 17: L2: Round Shower Trim (UR4C): Other:	1	6	10	60
LED 16.1: L1: Celeste linear light: Other:	1	2	19	38
LED 17.1: L5: LED pendant light: Other:	1	1	27	27
LED 16.2: L1: Celeste linear light: Other:	1	2	10	20
All gender 1062A (Common Space Types:Restrooms 64 sq.ft.)				
LED 18: L1: Celeste linear light: Other:	1	1	15	15
LED 19: L1: Celeste linear light: Other:	1	2	13	25
LED 20: L5: LED pendant light: Other:	1	1	27	27
LED 19.1: L1: Celeste linear light: Other:	1	2	8	17
			Total Proposed Watts =	698

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in *COMcheck* Version 4.1.3.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title _____ Signature _____ Date _____

Project Title: Restroom Renovation Purchase College — Report date: 11/16/20
Data filename: N:\SAP\2020\SAPX206002.00\26-SAPX206002.00_E\08-ENERGY MODELS-COMCHECK\2018 IECC COM CHECK WITHOUT VISUAL ARTS.cck — Page 2 of 7

ABBREVIATIONS

(NOTE : ALL ABBREVIATIONS MAY NOT APPEAR ON THE DRAWINGS)

A	AMPERE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CU	COPPER
D	EXISTING TO BE DEMOLISHED
DISC. SW.	DISCONNECT SWITCH
DWG	DRAWING
E, EX	EXISTING TO REMAIN
EM	DEVICE ON EMERGENCY CIRCUIT
EMT	ELECTRICAL METALLIC TUBING
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
FASP	FIRE ALARM SMOKE PURGE PANEL
FLA	FULL LOAD AMPS
G	GROUND
GFI	GROUND FAULT INTERRUPTER
GRS	GALVANIZED RESISTIVE CONDUIT
HP	HORSE POWER
IG	ISOLATED GROUND
KVA	KILOVOLT-AMPS
KW	KILOWATT
LM	LUMEN
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MDP	MAIN DISTRIBUTION PANEL
N	NEW
NEC	NATIONAL ELECTRICAL CODE
NFSS	NON FUSED SAFETY SWITCH
NL	NIGHT LIGHT FIXTURE
NTS	NOT TO SCALE
P	POLE
PH, Ø	PHASE
PNL	PANEL
R	RELOCATED AT NEW LOCATION
RR	REMOVE AND RELOCATE
SD	SOAP DISPENSER
S/N	SOLID NEUTRAL
SPD	SURGE PROTECTIVE DEVICE
SWBD	SWITCHBOARD
XFMR	TRANSFORMER
TYP.	TYPICAL
UON	UNLESS OTHERWISE NOTED
V	VOLTS
W	WATTS
WP	WEATHERPROOF

SUBSCRIPTS

RECEPTACLE OUTLETS AND JUNCTION BOX DEVICES MAY BE INDICATED WITH THE FOLLOWING SUBSCRIPTS:

EM : RECEPTACLE ON EMERGENCY POWER
GFI : GROUND FAULT INTERRUPTER
WP : WEATHER PROOF OUTLET WITH PROTECTIVE IN-USE COVER
MD : MOTORIZED DAMPER

LIGHT FIXTURE SUBSCRIPT DETAIL:

a HP-2
EM A

LIGHT FIXTURES MAY BE INDICATED WITH THE FOLLOWING SUBSCRIPTS:
EM : LIGHT FIXTURE ON EMERGENCY CIRCUIT
A : UPPER CASE SUBSCRIPT INDICATES LIGHT FIXTURE IDENTIFICATION TAG
a : LOWER CASE SUBSCRIPT INDICATES LIGHTING ZONE IDENTIFICATION
HP-2 : PANEL NAME AND CIRCUIT NUMBER SERVING LIGHT FIXTURE

ELECTRICAL DRAWING LIST

SHEET	DRAWING	TITLE
1	E-001	GENERAL NOTES, SYMBOLS & ABBREVIATIONS
2	E-101	FIRST FLOOR PLANS - SOCIAL SCIENCES - ELECTRICAL
3	E-102	FIRST FLOOR PLANS - NATURAL SCIENCE - ELECTRICAL
4	E-103	FIRST FLOOR PLANS - NATURAL SCIENCE - ELECTRICAL
5	E-501	ELECTRICAL POWER RISER DIAGRAM
6	E-502	ELECTRICAL POWER RISER DIAGRAM
7	E-601	ELECTRICAL SCHEDULES
8	E-602	ELECTRICAL PANEL SCHEDULES
9	E-701	ELECTRICAL DETAILS
10	E-702	ELECTRICAL DETAILS

RESTROOM RENOVATION
PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

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Purchase, NY 10577

Conditions

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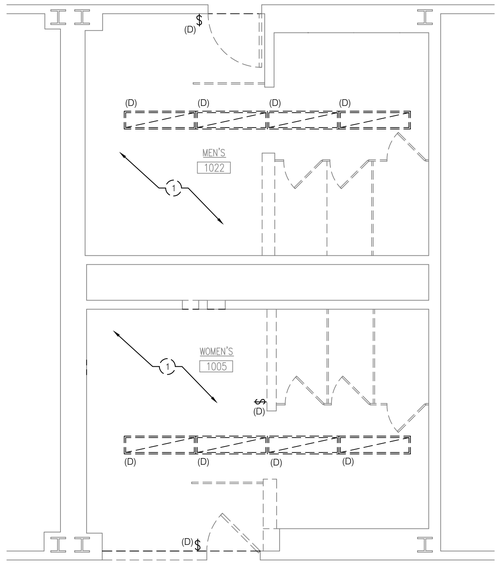
	2/27/2020	Issue for SD Review
	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	7/1/2020	Pre-Bid Documents
	11/17/2020	Issued for Bid

Key Plan

Title
GENERAL NOTES, SYMBOLS & ABBREVIATIONS

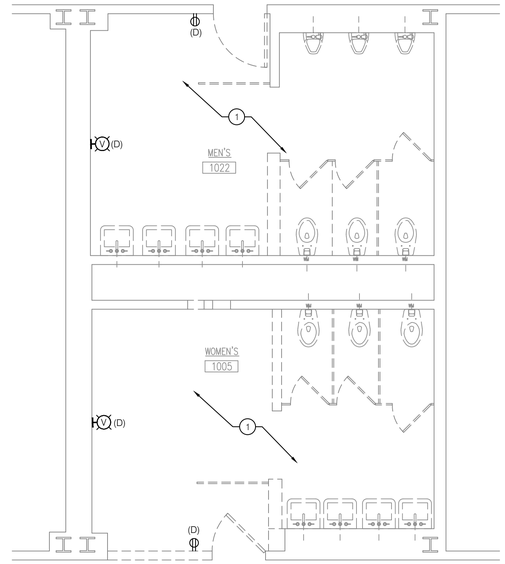
Date	01-16-2020
Project No.	1944
Drawing By	AH
CHK By	CO
Scale	AS NOTED

DOB Rev
E-001 .00
#



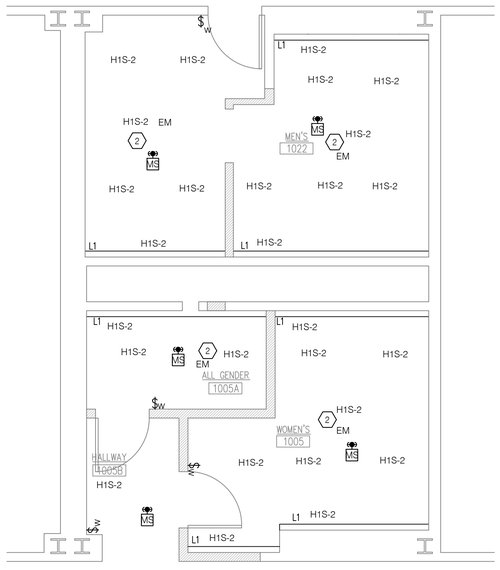
4 E-101 FIRST FLOOR PLAN - ELECTRICAL LIGHTING DEMOLITION

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



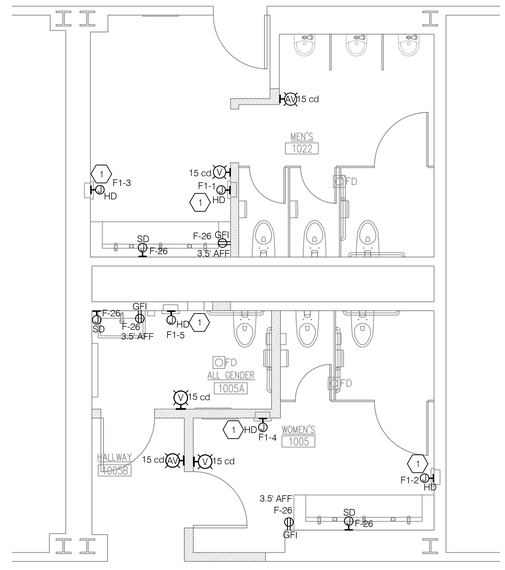
3 E-101 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

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



2 E-101 FIRST FLOOR PLAN - ELECTRICAL LIGHTING

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



1 E-101 FIRST FLOOR PLAN - ELECTRICAL POWER & FIRE ALARM

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

GENERAL NOTES

1. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.REFER TO DETAIL DRAWINGS FOR THE PROPOSED MOUNTING REQUIREMENTS OF TYPICAL FIRE ALARM DEVICES.
2. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS, DEVICES AND FIRE ALARM DEVICE INSTALLATION LOCATIONS.
3. COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
4. COORDINATE WITH ARCHITECT AND TECHNOLOGY CONSULTANT TO VERIFY EXTENT OF SCOPE AND REQUIREMENTS RELATED TO TELECOM, AV, SECURITY AND MISCELLANEOUS LOW VOLTAGE SYSTEMS. UNLESS OTHERWISE NOTED, ELECTRICAL CONTRACTOR TO PROVIDE ASSOCIATED BACK BOXES AND EMPTY CONDUITS WITH PULL STRING.
5. COORDINATE WITH MECHANICAL AND FIRE PROTECTION CONTRACT DOCUMENTS TO VERIFY THE EXACT LOCATION AND QUANTITY OF DUCT SMOKE DETECTORS AND ALL FLOW AND TAMPER SWITCHES RESPECTIVELY.
6. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT, EXISTING FIRE ALARM INITIATING DEVICE, NOTIFICATION APPLIANCE, SIGNALING LINE CIRCUITS AND FIXTURES TO REMAIN SHALL BE MAINTAINED.
7. ALL NEW OUTLETS, DEVICES AND FIRE ALARM DEVICES MUST BE FLUSH MOUNTED WITH CONCEALED CONDUITS. ANY SURFACE MD OUTLETS, DEVICES AND CONDUITS IN THE SCOPE OF WORK AREA MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
8. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
9. ALL NEW AND RELOCATED FIRE ALARM DEVICES MUST BE COMPATIBLE WITH AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM, ZONED BY FLOOR. EXTEND EXISTING WIRING AND CONDUIT FOR RELOCATED DEVICES TO NEW LOCATIONS AS REQUIRED.
10. WHERE MORE THAN TWO VISUAL (STROBE) NOTIFICATION APPLIANCES ARE IN THE FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION. PROVIDE EXTERNAL SYNC MODULE OR SYNC PROTOCOL BUILT IN TO THE FIRE ALARM CONTROL PANEL.
11. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS AND TO DRAWING E601 FOR THE LIGHTING FIXTURE SCHEDULE. REFER TO DRAWING E701 FOR THE LIGHTING CONTROL WIRING SCHEMATIC DIAGRAM.
12. LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
13. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
14. CONNECT ALL EMERGENCY LIGHTS TO THE DESIGNATED EMERGENCY INVERTER.
15. CLEAN, RE-LAMP AND RE-BALLAST ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES IN THE CONTRACT AREA AS REQUIRED. CONTRACTOR TO ENSURE THAT ALL REUSED FIXTURES ARE IN WORKING CONDITION.
16. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS, DEVICES, FIRE ALARM DEVICES, LIGHT FIXTURES AND CONTROL DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN.

DEMOLITION KEY NOTES

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES, CONDUITS, WIRING/BOXES, LIGHTING FIXTURE, SWITCHING SCHEME INCLUDING ALL TELEPHONE/DATA, RECEPTACLES (WALL/CEILING/FLOOR) SERVING THIS AREA ARE TO BE DEMOLISHED. MAINTAIN EXISTING CIRCUIT WIRING FROM LIGHTING FIXTURES FOR REUSE. ALL OTHER WIRING DEVICES, CONDUIT, AND FEEDERS SHALL BE REMOVED BACK TO SOURCE.

NEW WORK KEY NOTES

1. PROVIDE AUTOMATIC THERMAL-OVERLOAD SWITCH FOR DISCONNECTING MEANS.
2. CIRCUIT THE EMERGENCY FIXTURES TO THE NEAREST EMERGENCY PANEL. THE EM LIGHT FIXTURES ARE TO BE REMAIN UNSWITCHED.

RESTROOM RENOVATION PURCHASE COLLEGE

STATE UNIVERSITY OF NEW YORK

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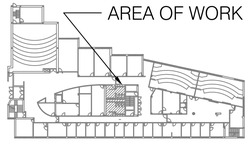
Key Plan



Title

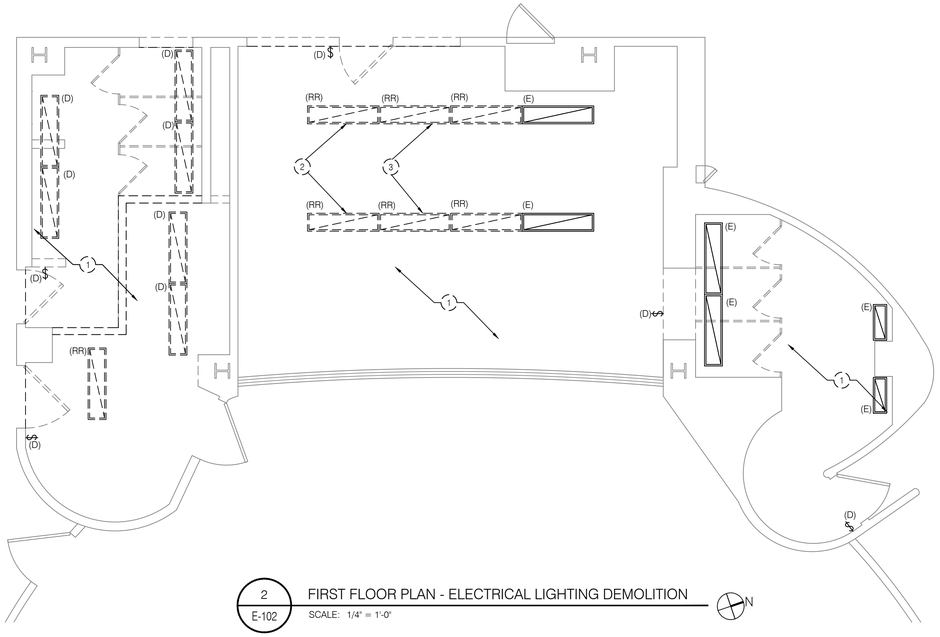
FIRST FLOOR PLANS - SOCIAL SCIENCES - ELECTRICAL

Date	01-16-2020
Project No.	1944
Drawing By	AH
CHK By	CO
Scale	AS NOTED

DOB Rev

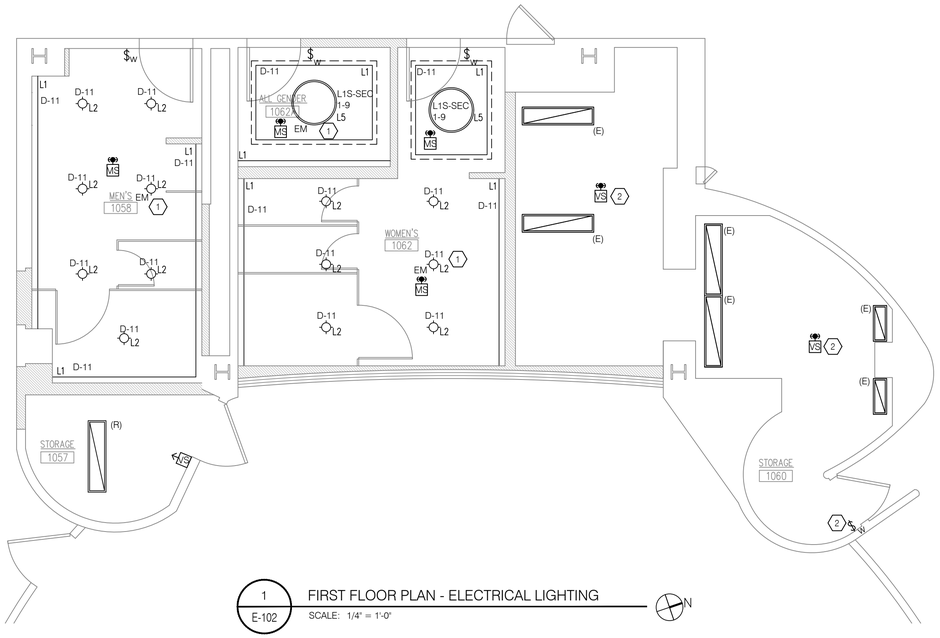
E-101 .00

#



2 E-102 FIRST FLOOR PLAN - ELECTRICAL LIGHTING DEMOLITION

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



1 E-102 FIRST FLOOR PLAN - ELECTRICAL LIGHTING

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

GENERAL NOTES

1. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS AND TO DRAWING E601 FOR THE LIGHTING FIXTURE SCHEDULE. REFER TO DRAWING E801 FOR THE LIGHTING CONTROL WIRING SCHEMATIC DIAGRAM.
2. LOCATION OF FIXTURES AND DEVICES SHOWN ON PLANS ARE DIAGRAMMATIC ONLY. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL FIXTURES AND DEVICES.
3. AT THE COMPLETION OF CONSTRUCTION, CLEAN LENSES AND REFLECTORS OF ALL LIGHTING FIXTURES IN THE CONTRACT AREA AND RENDER THEM FREE OF ANY MATERIAL, SUBSTANCE OR FILM FOREIGN TO THE FIXTURES. BLEMISHED, DAMAGED OR UNSATISFACTORY FIXTURES ARE TO BE REPLACED IN A SATISFACTORY MANNER.
4. CONNECT ALL EMERGENCY LIGHTS TO THE DESIGNATED EMERGENCY PANEL WITH 2 #10 AWG + 1 #10 G IN 3/4"C.
5. CLEAN, RE-LAMP AND RE-BALLAST ALL EXISTING TO REMAIN AND RELOCATED LIGHTING FIXTURES IN THE CONTRACT AREA AS REQUIRED. CONTRACTOR TO ENSURE THAT ALL REUSED FIXTURES ARE IN WORKING CONDITION.
6. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING FIXTURES, DEVICES AND EQUIPMENT TO REMAIN SHALL BE MAINTAINED.
7. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
8. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL LIGHT FIXTURES AND CONTROL DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. FIXTURES AND DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT TO REMAIN.

DEMOLITION KEY NOTES

1. UNLESS OTHERWISE NOTED, ALL LIGHTING CONTROLS DEVICES, CONDUITS, WIRING/BOXES, LIGHTING FIXTURE, SWITCHING SCHEME SERVING THIS AREA ARE TO BE DEMOLISHED. MAINTAIN EXISTING CIRCUIT WIRING FROM LIGHTING FIXTURES FOR REUSE. ALL OTHER WIRING DEVICES, CONDUIT, AND FEEDERS SHALL BE REMOVED BACK TO SOURCE.
2. LIGHT FIXTURES WITH (E) DESIGNATION ARE TO BE RELOCATED AND REUSED IN STORAGE ROOM.
3. LIGHT FIXTURES WITH (R) DESIGNATION ARE TO BE RELOCATED AND REUSED IN JANITORIAL CLOSETS OF VISUAL ARTS BUILDING.SEE DRAWINGS E-103 AND E-104 FOR NEW LOCATIONS.

NEW WORK KEY NOTES

1. CIRCUIT THE EMERGENCY FIXTURES TO THE NEAREST EMERGENCY PANEL. THE EM LIGHT FIXTURES ARE TO BE REMAIN UNSWITCHED.
2. FOR EXISTING LIGHT FIXTURE IN STORAGE 1060, REWORK LIGHTING CONTROLS TO RESPOND TO SWITCH AT ENTRANCE OF STORAGE 1060.

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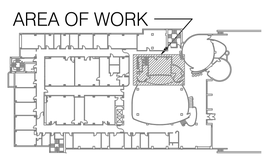
Key Plan

AREA OF WORK



Title

FIRST FLOOR PLANS - NATURAL SCIENCE - ELECTRICAL

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CHK By	CO
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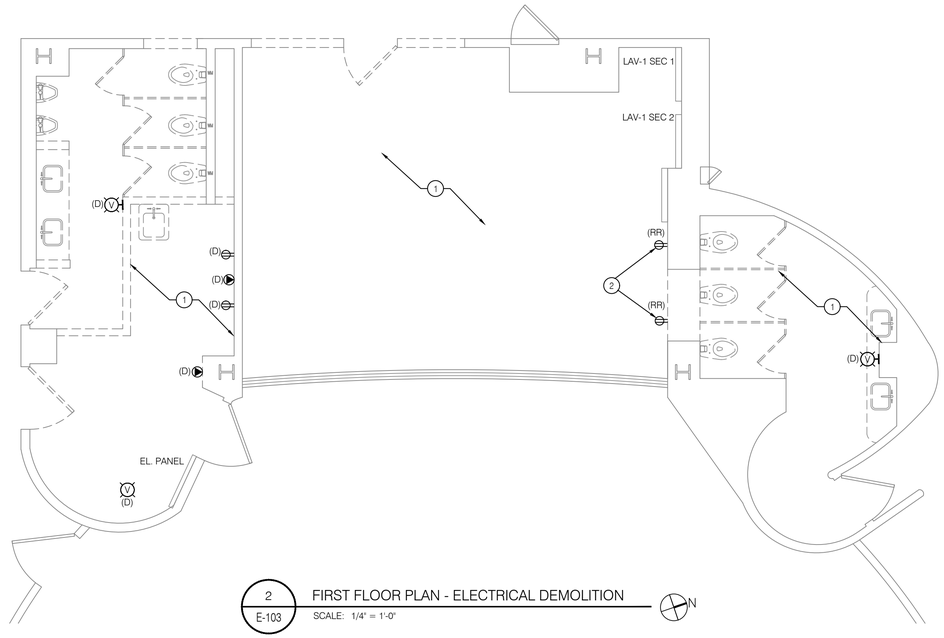
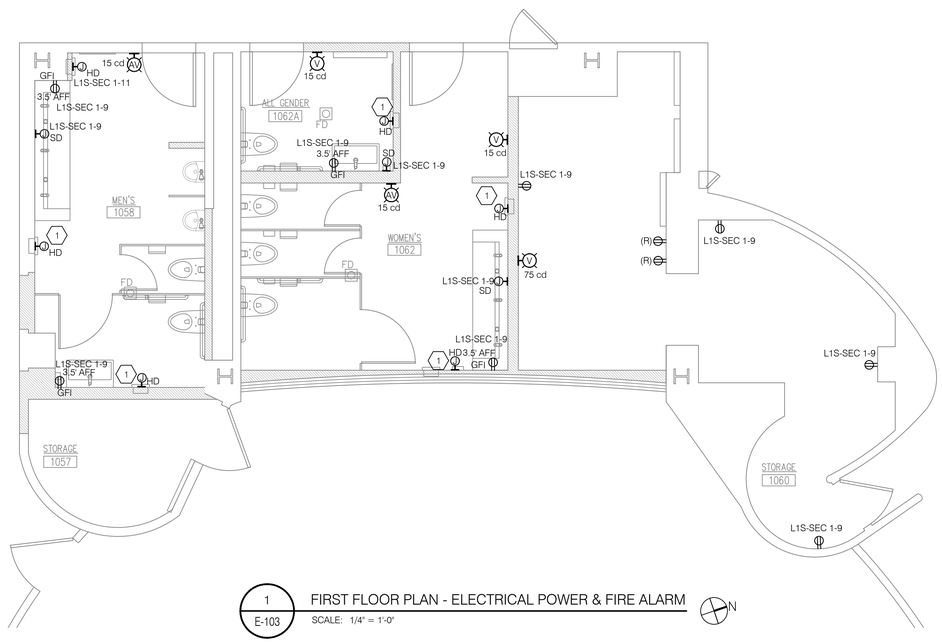


2 E-103 FIRST FLOOR PLAN - ELECTRICAL DEMOLITION

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



1 E-103 FIRST FLOOR PLAN - ELECTRICAL POWER & FIRE ALARM

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

GENERAL NOTES

1. REFER TO THE ELECTRICAL COVER SHEET DRAWING FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.REFER TO DETAIL DRAWINGS FOR THE PROPOSED MOUNTING REQUIREMENTS OF TYPICAL FIRE ALARM DEVICES.
2. REFER TO ARCHITECTURAL DRAWINGS TO VERIFY THE ELEVATIONS, DETAILS, LOCATION, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION PRIOR TO THE ROUGH-IN OF ELECTRICAL OUTLETS, DEVICES AND FIRE ALARM DEVICE INSTALLATION LOCATIONS.
3. COORDINATE WITH CONTRACT DOCUMENTS FOR ALL OTHER DISCIPLINES AND TRADES FOR EXACT LOCATION OF ASSOCIATED EQUIPMENT.
4. COORDINATE WITH ARCHITECT AND TECHNOLOGY CONSULTANT TO VERIFY EXTENT OF SCOPE AND REQUIREMENTS RELATED TO TELECOM, AV, SECURITY AND MISCELLANEOUS LOW VOLTAGE SYSTEMS. UNLESS OTHERWISE NOTED, ELECTRICAL CONTRACTOR TO PROVIDE ASSOCIATED BACK BOXES AND EMPTY CONDUITS WITH PULL STRING.
5. COORDINATE WITH MECHANICAL AND FIRE PROTECTION CONTRACT DOCUMENTS TO VERIFY THE EXACT LOCATION AND QUANTITY OF DUCT SMOKE DETECTORS AND ALL FLOW AND TAMPER SWITCHES RESPECTIVELY.
6. THE CONTINUITY OF EXISTING CIRCUITS SERVING EXISTING DEVICES AND EQUIPMENT, EXISTING FIRE ALARM INITIATING DEVICE, NOTIFICATION APPLIANCE AND SIGNALING LINE CIRCUITS TO REMAIN SHALL BE MAINTAINED.
7. ALL NEW OUTLETS, DEVICES AND FIRE ALARM DEVICES MUST BE
1. FLUSH MOUNTED WITH CONCEALED CONDUITS. ANY SURFACE MOUNTED OUTLETS, DEVICES AND CONDUITS IN THE SCOPE OF WORK AREA MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
8. ALL REUSED CIRCUIT NUMBERS INDICATED ON PLAN ARE BASED ON EXISTING DOCUMENTS AND MAY NOT MATCH THE AS-BUILT CONDITION OF THE EXISTING CIRCUITS SERVING THE AREA. CONTRACTOR TO VERIFY AND UPDATE THE CIRCUIT NUMBERS UTILIZED DURING CONSTRUCTION.
9. ALL NEW AND RELOCATED FIRE ALARM DEVICES MUST BE COMPATIBLE WITH AND CONNECTED TO THE EXISTING FIRE ALARM SYSTEM, ZONED BY FLOOR. EXTEND EXISTING WIRING AND CONDUIT FOR RELOCATED DEVICES TO NEW LOCATIONS AS REQUIRED.
10. WHERE MORE THAN TWO VISUAL (STROBE) NOTIFICATION APPLIANCES ARE IN THE FIELD OF VIEW, THEY SHALL FLASH IN SYNCHRONIZATION. PROVIDE EXTERNAL SYNC MODULE OR SYNC PROTOCOL BUILT IN TO THE FIRE ALARM CONTROL PANEL.
11. UNLESS OTHERWISE NOTED, IN THE SCOPE OF WORK AREA, ALL ELECTRICAL OUTLETS, DEVICES AND FIRE ALARM DEVICES SHOWN WITH A SUBSCRIPT "N" OR WITHOUT ANY SUBSCRIPT ARE NEW TO BE PROVIDED. DEVICES SHOWN WITH A SUBSCRIPT "E" INDICATE EXISTING EQUIPMENT AND DEVICES TO REMAIN.

DEMOLITION KEY NOTES

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL DEVICES, CONDUITS, WIRING/BOXES, LIGHTING FIXTURE, SWITCHING SCHEME INCLUDING ALL TELEPHONE/DATA, RECEPTACLES (WALL/CEILING/FLOOR) SERVING THIS AREA ARE TO BE DEMOLISHED. MAINTAIN EXISTING CIRCUIT WIRING FROM LIGHTING FIXTURES FOR REUSE. ALL OTHER WIRING DEVICES, CONDUIT, AND FEEDERS SHALL BE REMOVED BACK TO SOURCE.
2. RECEPTACLES AND 1°C TO BE RELOCATED DUE TO CHANGED WALL LOCATION. SEE NEW WORK PLAN IN THIS DRAWING FOR NEW LOCATION.

NEW WORK KEY NOTES

1. PROVIDE AUTOMATIC THERMAL-OVERLOAD SWITCH FOR DISCONNECTING MEANS. PROVIDE 20A ENCLOSED CIRCUIT BREAKER THAT ARE TAPPED OFF OF THE MAIN LUGS OF PANEL "L1S SEC I" AND CIRCUIT EACH HAND DRYER TO THE ENCLOSED CIRCUIT BREAKER.

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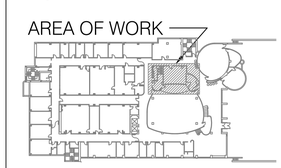
Key Plan

AREA OF WORK



Title

FIRST FLOOR PLANS - NATURAL SCIENCE - ELECTRICAL

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Drawing By	AH
CHK By	CO
Scale	AS NOTED

DOB Rev

E-103 .00

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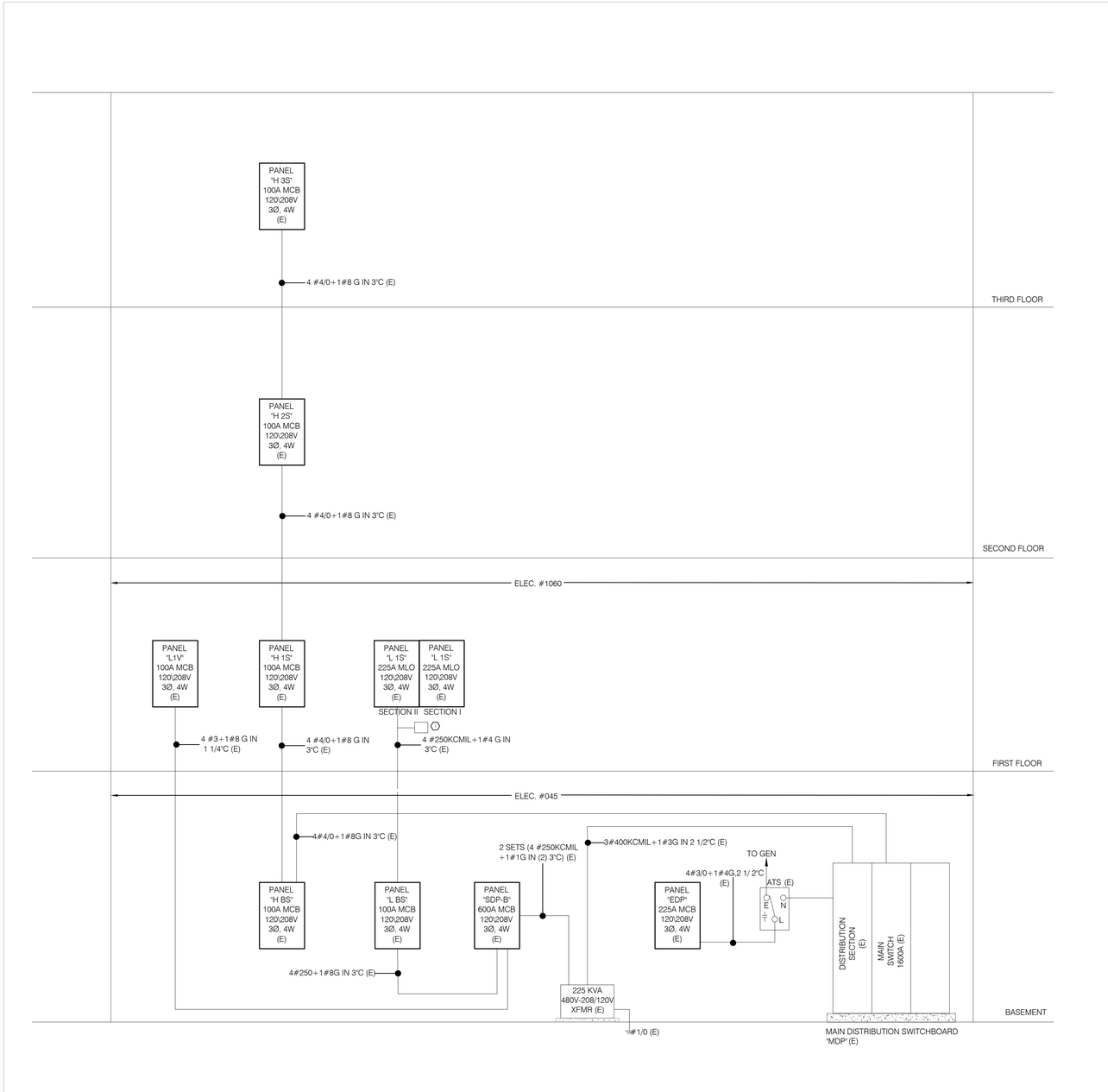

1
E-501

PARTIAL ELECTRICAL RISER (NATURAL SCIENCES BUILDING)

SCALE: NO SCALE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT, PANELS AND FEEDERS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

NEW WORK KEY NOTES

1. PROVIDE 20A ENCLOSED CIRCUIT BREAKER AS REQUIRED THAT ARE TAPPED OFF OF THE MAIN LUGS OF PANEL "L1S SEC I". EACH HAND DRYER IS TO HAVE A DEDICATED ENCLOSED CIRCUIT BREAKER. FEEDER TAP IS NOT TO EXCEED 10'.

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Key Plan

Title
ELECTRICAL POWER RISER DIAGRAM

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Drawing By	AH
CHK By	CO
Scale	AS NOTED

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E-501 .00
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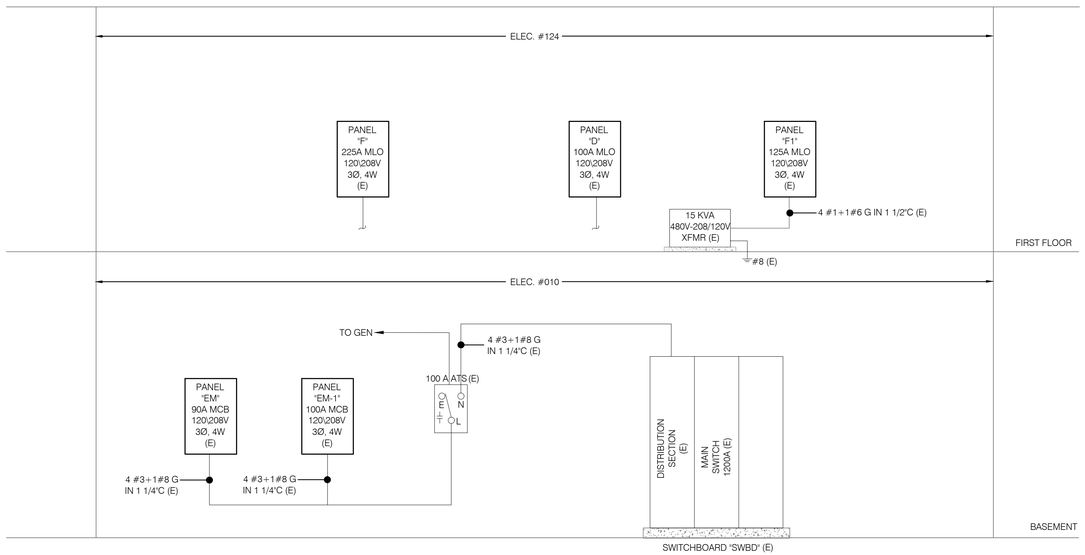

2
E-502

PARTIAL ELECTRICAL RISER (SOCIAL SCIENCES BUILDING)

SCALE: NO SCALE

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL EQUIPMENT, PANELS AND FEEDERS ARE EXISTING TO REMAIN AND SHOWN FOR REFERENCE ONLY.

NEW WORK KEY NOTES

1. PROVIDE 20A ENCLOSED CIRCUIT BREAKER THAT ARE TAPPED OFF OF THE MAIN LUGS OF PANEL 'P0-1 SECTION 1'. EACH HAND DRYER IS TO HAVE A DEDICATED ENCLOSED CIRCUIT BREAKER. FEEDER TAP IS NOT TO EXCEED 10'.

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E-502 .00
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LIGHTING FIXTURE SCHEDULE

TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LUMENS	LAMP	VOLTAGE	QUANTITY	REMARKS
L1		CELESTE LINEAR TAPE LIGHT	LUCETTA LIGHTING	VIP-24CEL150-30-XX-SLWH-3M-010	166 LM/FT	LED	277V	148 FT	FOR FIXTURE LENGTH, CHECK ARCHITECTURAL DRAWINGS
L2		4" RECESSED ROUND	CONTRASTE LIGHTING	UR4CF-11113090L	892	LED	277V	33	
L3		_	_	_	_	_	277V	2	REUSED FROM NATURAL SCIENCE BUILDING
L4		FLUSH MOUNT ROUND	TANGO LIGHTING	BOOP 14 1/2" (3000K,23W)	2000	LED	277V	1	
L5		LARGE SCALE PENDANT	TANGO LIGHTING	GKOP205202	2828	LED	277V	2	

PROJECT: SUNY PURCHASE COLLEGE - SOCIAL SCIENCES BUILDIN **PANEL VOLTAGE:** 277/480V **AIC RATING:** 14K
PANEL: D (E) **PHASE & WIRE:** 3PH, 4W **MOUNTING:** SURFACE
LOCATION 1ST FLOOR ELCTRICAL CLOSET 124 **BUS/MAIN (AMPS):** 100A MLO **NEMA TYPE:** 1

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	DESCRIPTION	OCD A	OCD P	CKT NO.
1	20	1	LIGHTING RMS. 128, 139 AND 140 (E)						0.0								LIGHTING RMS. 153, 154,155 AND 156 (E)	20	1	2
3	20	1	LIGHTING RMS. 141, 142, 143 AND 1404 (E)							0.0							LIGHTING RMS. 149, 150,151 AND 152 (E)	20	1	4
5	20	1	LIGHTING RMS. 145, 146, 147 AND 148 (E)								0.0						LIGHTING RMS. 157, 135,133,132 AND 131(E	20	1	6
7	20	1	LIGHTING RMS. 129 AND 128 (E)						0.0								LIGHTING RMS. 110, 111 (E)	20	1	8
9	20	1	LIGHTING RMS. 127 (E)							0.0							LIGHTING RMS. 108,109 (E)	20	1	10
11	**20**	**1**	**LIGHT RMS 112,113,115,117,118, TOILETS 1058-1062CLO123**					**0.4**			0.4						LIGHTING RMS. 107 (E)	30	3	12
13	20	1	LIGHTING CORRIDOR 125 (E)						0.0								/	/	/	14
15			SPACE							0.0							/	/	/	16
17			SPACE								0.0						SPACE			18
19			SPACE						0.0								SPACE			20
21			SPACE							0.0							SPACE			22
23			SPACE								0.0						SPACE			24
CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0				
25% OF LARGEST MOTOR (KVA)																				
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.4												
DEMAND FACTOR				1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	0		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	0.0	0.0	0.4									LINE CURRENT (AMPS)	1		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44) HWH - HOT WATER HEATER
1 SPARE CIRCUIT MADE AVAILABLE AFTER DEMOLITION 2 PROVIDE NEW CIRCUIT BREAKER

PROJECT: SUNY PURCHASE COLLEGE -SOCIAL SCIENCES BUILDIN **PANEL VOLTAGE:** 120/208V **AIC RATING:** 10K
PANEL: F (E) **PHASE & WIRE:** 3PH, 4W **MOUNTING:** SURFACE
LOCATION FIRST FLOOR ELECTRICAL CLOSET 124 **BUS/MAIN (AMPS):** 225A MLO **NEMA TYPE:** 1

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	DESCRIPTION	OCD A	OCD P	CKT NO.
1	20	1	RCPT. RM 138 (E)						0.0								RCPT. RMS. 141 AND 142 (E)	20	1	2
3	20	1	RCPT. RM 139 (E)							0.0							RCPT.RMS. 143 AND 144 (E)	20	1	4
5	20	1	RCPT. RM 140 (E)								0.0						RCPT. RMS. 145 AND 146 (E)	20	1	6
7	20	1	RCPT. RMS 147 AND 148 (E)						0.0								RCPT. RM 157 (E)	20	1	8
9	20	1	RCPT. RMS 149 AND 150 (E)							0.0							RCPT. RMS. 155 AND 156 (E)	20	1	10
11	20	1	RCPT. RMS 151 AND 152 (E)								0.0						RCPT. RMS. 153 AND 154 (E)	20	1	12
13	20	1	RCPT. RM 129 (E)						0.0								RCPT. RM 135, WATER CLR CORR 137 (E)	20	1	14
15	20	1	RCPT. RM 128 (E)							0.0							RCPT. RM 133 (E)	20	1	16
17	20	1	RCPT. RM 126 (E)								0.0						RCPT. RM 132 (E)	20	1	18
19	20	1	RCPT. RM 127 (E)						0.0								RCPT. RM 107, CORR 103 DISPLAY LTG. (E	20	1	20
21	20	1	RCPT. RM 127 (E)							0.0							RCPT.RMS. 108,109 (E)	20	1	22
23	20	1	RCPT. RMS. 130 AND 131 (E)								0.0						RCPT. RMS. 110,111 (E)	20	1	24
25	20	1	CPT. TELE AREA 102,112,WATER CLR. 103 (E)						0.8							**0.8**	**RCPT. 118,123,TLT RMS. 1005,1022 (SOAP)**	**20**	**1**	**26**
27	20	1	RCPT. RM 113 (E)							0.0							TELEPHONE RCPT. CLOSET 124 (E)	20	1	28
29	20	1	RCPT. RM 117 (E)								0.0						WATER CLR 125 CORR, VEST 101 HTR (E)	20	1	30
31	20	1	RCPT. RM 115 (E)						0.0								FLOOR RCPT. RM. 128 (E)	20	1	32
33	20	1	RCPT. RM 115 (E)							0.0							FLOOR RCPT. RM. 128 (E)	20	1	34
35	20	1	FIRST FLOOR FAN COIL UNITS (E)								0.0						RCPT. FIRST FLOOR CORR. (E)	20	2	36
37	20	1	FIRST FLOOR FAN COIL UNITS (E)						0.0								RCPT. FIRST FLOOR CORR. (E)	/	/	38
39	20	1	EXISTING LOAD							0.0							RCPT. RM 135 (E)	20	1	40
41	20	1	EXISTING LOAD								0.0						FUTURE RM 133 CHILLER UNIT (E)	20	1	42
CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.8	0.0				
25% OF LARGEST MOTOR (KVA)																				
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.8	0.0												
DEMAND FACTOR				1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	1		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	0.0	0.8	0.0									LINE CURRENT (AMPS)	2		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44) HWH - HOT WATER HEATER
1 SPARE CIRCUIT MADE AVAILABLE AFTER DEMOLITION 2 PROVIDE NEW CIRCUIT BREAKER

PROJECT: SUNY PURCHASE COLLEGE - SOCIAL SCIENCES BUILDING **PANEL VOLTAGE:** 120/208V **AIC RATING:** 10K
PANEL: EM (E) **PHASE & WIRE:** 3PH, 4W **MOUNTING:** SURFACE
LOCATION: BASEMENT MECHANICAL ROOM 010 **BUS/MAIN (AMPS):** 90A MCB **NEMA TYPE:** 1

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	DESCRIPTION	OCD A	OCD P	CKT NO.
1	20	1	STAIR S4&PASS 007 EMERGENCY (E)						0.0								STAIRWAY S-1 LTG. (E)	20	1	2
3	20	1	CORRIDOR 028 EMERGENCY LTG. (E)							0.0							STAIRWAY S-2 LTG. (E)	20	1	4
5	20	1	CORRIDOR 029 EMERGENCY LTG. (E)								0.0						STAIRWAY S-3 LTG. (E)	20	1	6
7	20	1	VEST. 018 AND 101 LTG. (E)						0.0								BUILDING EXIT LIGHTS SOUTH (E)	20	1	8
9	20	1	SPARE							0.0							BUILDING EXIT LIGHTS NORTH (E)	20	1	10
11	20	1	SECOND FLOOR CORR.EM LTG. (E)								0.0						EM. LTG. MCHN RM., LECT RM 182,CR (E)	20	1	12
13	20	1	ELEVATOR LIGHTS (E)						0.0								TELEPHONE RM. 010 RCPT. (E)	20	2	14
15	20	2	FIRE ALARM (E)							0.0							TELEPHONE RM. 010 RCPT. (E)	/	/	16
17	/	/	/								0.0						LIGHTS (E)	20	1	18
19	15	3	SUMP PUMP#1 (E)						0.0								LOBBY 103 EM. LTG. (E)	20	1	20
21	/	/	SUMP PUMP#1 (E)							0.0							SUMP PUMP#2 (E)	15	3	22
23	/	/	SUMP PUMP#1 (E)								0.0						SUMP PUMP#2 (E)	/	/	24
25	20	1	FIRST FLOOR CORR EM. LTG. (E)						0.0								SUMP PUMP#2 (E)	/	/	26
27	20	1	SPACE COMP. LTG (E)							0.0							HONEYWELL CONTROL CABINET (E)	20	1	28
29	20	1	SPACE COMP. LTG. (E)								0.0						EXISTING LOAD	20	1	30
31	20	1	EXISTING LOAD						0.0								MCB	90	3	32
33	20	1	EXISTING LOAD							0.0							/	/	/	34
35	20	1	EXISTING LOAD								0.0						/	/	/	36
37	20	1	EXISTING LOAD						0.0								COMPUTER LIGHTS (E)	20	1	38
CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25% OF LARGEST MOTOR (KVA)																				
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.0												
DEMAND FACTOR				1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	0		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	0.0	0.0	0.0									LINE CURRENT (AMPS)	0		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44) HWH - HOT WATER HEATER
1 SPARE CIRCUIT MADE AVAILABLE AFTER DEMOLITION 2 PROVIDE NEW CIRCUIT BREAKER

PROJECT: SUNY PURCHASE COLLEGE - SOCIAL SCIENCES BUILDIN **PANEL VOLTAGE:** 120/208V **AIC RATING:** 10K
PANEL: PANEL F1 (E) **PHASE & WIRE:** 3PH, 4W **MOUNTING:** SURFACE
LOCATION 1ST FLOOR ELECTRICAL CLOSET 124 **BUS/MAIN (AMPS):** 125A MLO **NEMA TYPE:** 1

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	DESCRIPTION	OCD A	OCD P	CKT NO.
1	**20**	**1**	**MEN'S 1022 HAND DRYER**	**1.0**					2.0			**1.0**					**WOMEN'S 1005 HAND DRYER**	**20**	**1**	**2**
3	**20**	**1**	**MEN'S 1022 HAND DRYER**	**1.0**						2.0		**1.0**					**WOMEN'S 1005 HAND DRYER**	**20**	**1**	**4**
5	**20**	**1**	**ALL GENDER 1005A HAND DRYER**	**1.0**							1.0						SPACE			6
7	20	1	OFFICE QUADS (E)						0.0								CONFR. RM. QUAD (E)	20	1	8
9	20	1	WATER FOUNTAIN (E)							0.0							RCPT. CONF ROOM (E)	20	1	10
11	20	1	EXISTING LOAD								0.0						RCPT. CONF ROOM (E)	20	1	12
13	20	1	AV QUAD (E)						0.0								RCPT. RM 127 (E)	20	1	14
15	20	1	AV QUAD (E)							0.0							PODIUM RM .127 (E)	20	1	16a
17	20	1	COPIER (E)								0.0						/	20	1	16b
19			SPACE														PODIUM RM. 127 (E)	20	1	18a
21																	/	20	1	18b
23									0.0								SPACE			20
CONNECTED LOAD (KVA)				3.0	0.0	0.0	0.0	0.0	2.0	2.0	1.0	2.0	0.0	0.0	0.0	0.0				
25% OF LARGEST MOTOR (KVA)																				
TOTAL CONNECTED LOAD (KVA)				5.0	0.0	0.0	0.0	0.0												
DEMAND FACTOR				1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	5		
TOTAL DEMAND LOAD (KVA)				5.0	0.0	0.0	0.0	0.0									LINE CURRENT (AMPS)	14		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44) HWH - HOT WATER HEATER
1 SPARE CIRCUIT MADE AVAILABLE AFTER DEMOLITION 2 PROVIDE NEW CIRCUIT BREAKER

KEY PANELS	
D (E)	F (E)
EM (E)	F1 (E)

RESTROOM RENOVATION PURCHASE COLLEGE

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Rev	Date	Issue
	2/27/2020	Issue for SD Review
	4/13/2020	Issue for DD Review
	5/4/2020	100% DD Submission
	7/1/2020	Pre-Bid Documents
	11/17/2020	Issued for Bid

Key Plan

Title
ELECTRICAL SCHEDULES

Date	01-16-2020
Project No.	1944
Drawing By	AH
CHK By	CO
Scale	AS NOTED

DOB Rev
E-601 .00
#

PROJECT: SUNY PURCHASE COLLEGE - NATURAL SCIENCES BUILDI PANEL VOLTAGE: 480/277V AIC RATING: 14K
PANEL: H1S (E) PHASE & WIRE: 3PH, 4W MOUNTING: SURFACE
LOCATION BASEMENT ELECTRICAL CLOSET 045 BUS/MAIN (AMPS): 100A MCB NEMA TYPE: 1

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	DESCRIPTION	OCD A	OCD P	CKT NO.
1	20	1	LIGHTING CORRIDOR (E)						0.3							0.3	LIGHTS RMS.1065,TOILET RMS 1005,1022	20	1	2
3	20	1	LIGHTING RMS. 1028,1049,1059 (E)							0.0							LIGHTING RMS.1057,1050 (E)	20	1	4
5	20	1	LIGHTING RMS.1023,1024,1025,1028,1027 (E)								0.0						LIGHTING RM. 1029 (E)	20	1	6
7	20	1	EXISTING LOAD						0.0								EXISTING LOAD	20	1	8
9	20	1	EXISTING LOAD							0.0							EXISTING LOAD	20	1	10
11	20	1	EXISTING LOAD								0.0						EXISTING LOAD	20	1	12
CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.3				
25% OF LARGEST MOTOR (KVA)																				
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.3												
DEMAND FACTOR				1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	0		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	0.0	0.0	0.4									LINE CURRENT (AMPS)	0		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44)
1 SPARE CIRCUIT MADE AVAILABLE AFTER DEMOLITION
2 PROVIDE NEW CIRCUIT BREAKER

PROJECT: SUNY PURCHASE COLLEGE-NATURAL SCIENCES BUILDI PANEL VOLTAGE: 120/208V AIC RATING: 10K
PANEL: L1S SEC 2 (E) PHASE & WIRE: 3PH, 4W MOUNTING: SURFACE
LOCATION ELECTRICAL CLOSET 1061 BUS/MAIN (AMPS): 225A MCB NEMA TYPE: 1

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	DESCRIPTION	OCD A	OCD P	CKT NO.
1	20	1	TRACK LIGHTS 1059 (E)						0.0								TRACK LIGHTS RM. 1059 (E)	20	1	2
3	20	1	TRACK LIGHTS 1059 (E)							0.0							TRACK LIGHTS RM. 1059 (E)	20	1	4
5	20	1	TRACK LIGHTS 1060 (E)								0.0						TRACK LIGHTS RM. 1059 (E)	20	1	6
7	20	1	TRACK LIGHTS 1059 (E)						0.0								TRACK LIGHTS RM. 1059 (E)	20	1	8
9	20	1	TRACK LIGHTS 1059 (E)							0.0							NORTH CANOPY HT. TRACING (E)	20	1	10
11	20	1	TRACK LIGHTS 1059 (E)								0.0						LTS. NORTH CANOPY (E)	20	1	12
13	20	1	TRACK LIGHTS 1059 (E)						0.0								LTS. SOUTH CANOPY (E)	20	1	14
15	20	1	TRACK LIGHTS 1059 (E)							0.0							SOUTH CANOPY HT. TRACING (E)	20	1	16
17	20	1	RCPT. EAST RM. 1001 (E)								0.0						SOUTH CANOPY HT. TRACING (E)	20	1	18
19	20	1	RCPT. EAST RM. 1002 (E)						0.0								HAND RAIL LTS (E)	20	1	20
21	20	1	RCPT. EAST RM.1001 (E)							0.0							COLUMN LTS LOBBY (E)	20	1	22
23	20	1	LIGHTS RM. 1063 (E)								0.0						RCPT. RM. 1066 (E)	20	1	24
25	20	1	LIGHTS DISPLAY RM. 1066 (E)						0.0								CIRC FOR SEATING RM. 1066 (E)	20	1	26
27	20	1	LIGHTS DISPLAY RM. 1066 (E)							0.0							CIRC FOR SEATING RM. 1067 (E)	20	1	28
29	30	1	EXISTING LOAD (E)								0.0						DIRECTORY LTS RM. 1066 (E)	20	1	30
CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25% OF LARGEST MOTOR (KVA)																				
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.0												
DEMAND FACTOR				1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	0		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	0.0	0.0	0.0									LINE CURRENT (AMPS)	0		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44) HWH - HOT WATER HEATER
1 SPARE CIRCUIT MADE AVAILABLE AFTER DEMOLITION
2 PROVIDE NEW CIRCUIT BREAKER

PROJECT: SUNY PURCHASE COLLEGE-NATURAL SCIENCES BUILDI PANEL VOLTAGE: 120/208V AIC RATING: 10K
PANEL: L1S SEC 1 (E) PHASE & WIRE: 3PH, 4W MOUNTING: SURFACE
LOCATION ELECTRICAL CLOSET 1061 BUS/MAIN (AMPS): 225A MLO NEMA TYPE: 1

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	DESCRIPTION	OCD A	OCD P	CKT NO.
1	20	1	RCPT. RM. 1059 (E)						0.0								CORR RCPT. (E)	20	1	2
3	20	1	CORR RCPT. 1059 (E)							0.0							RCPT. RM. 1063 (E)	20	1	4
5	20	1	RCPT.RM. 1059 (E)								0.0						RCPT. RM. 1063, 1065 (E)	20	1	6
7	20	1	RCPT.RM. 1065 (E)						0.0								RCPT. RM. 1063 (E)	20	1	8
9	**20**	**1**	**RCPT.,(SOAP),LGT. RM 1058,1062,1062A, 1060**				**1.7**	**0.1**		1.8							RCPT. RM. 1060 (E)	20	1	10
11	**20**	**1**	**HAND DRYER RM. MEN'S 1058**				**1.0**				1.0						RCPT. RM. 1060 (E)	20	1	12
13	20	1	HEATER RM. 1059 (E)						0.0								RCPT. RM. 1001, 1066 (E)	20	1	14
15	20	1	HEATER RM. 1060 (E)							0.0							RCPT. PNL (E)	20	1	16
17	20	1	TRACK LIGHTS RM. 1002 (E)								0.0						TRACK LIGHTS RM. 1067 (E)	20	1	18
19	20	1	TRACK LIGHTS RM. 1002 (E)						0.0								TRACK LIGHTS RM. 1067 (E)	20	1	20
21	20	1	TRACK LIGHTS RM. 1059 (E)							0.0							TRACK LIGHTS RM. 1066 (E)	20	1	22
23	20	1	TRACK LIGHTS RM. 1002 (E)								0.0						TRACK LIGHTS RM. 1066 (E)	20	1	24
25	20	1	TRACK LIGHTS RM. 1059 (E)						0.0								TRACK LIGHTS RM. 1066 (E)	20	1	26
27	20	1	TRACK LIGHTS RM. 1001 (E)							0.0							TRACK LIGHTS RM. 1066 (E)	20	1	28
29	20	1	TRACK LIGHTS RM. 1001 (E)								0.0						TRACK LIGHTS RM. 1066 (E)	20	1	30
31	20	1	TRACK LIGHTS RM. 1002 (E)						0.0								TRACK LIGHTS RM. 1066 (E)	20	1	32
33	20	1	TRACK LIGHTS RM. 1066 (E)							0.0							TRACK LIGHTS RM. 1059 (E)	20	1	34
35	20	1	TRACK LIGHTS RM. 1066 (E)								0.0						TRACK LIGHTS RM. 1059 (E)	20	1	36
37	20	1	TRACK LIGHTS RM. 1066 (E)						0.0								TRACK LIGHTS RM. 1002 (E)	20	1	38
39	20	1	TRACK LIGHTS RM. 1066 (E)							0.0							TRACK LIGHTS RM. 1002 (E)	20	1	40
41	30	1	FLOOR RCPT. 1059 (E)								0.0						PIPE TRAINING 1066 (E)	20	1	42
CONNECTED LOAD (KVA)				0.0	0.0	0.0	2.7	0.1	0.0	1.8	1.0	0.0	0.0	0.0	0.0	0.0				
25% OF LARGEST MOTOR (KVA)																				
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	0.0	2.7	0.1												
DEMAND FACTOR				1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	3		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	0.0	2.7	0.1									LINE CURRENT (AMPS)	8		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44) HWH - HOT WATER HEATER
1 SPARE CIRCUIT MADE AVAILABLE AFTER DEMOLITION
2 PROVIDE NEW CIRCUIT BREAKER

PROJECT: SUNY PURCHASE COLLEGE -NATURAL SCIENCES BUILDING PANEL VOLTAGE: 120/208V AIC RATING: 10K
PANEL: EDP (E) PHASE & WIRE: 3PH, 4W MOUNTING: SURFACE
LOCATION: BASEMENT MAIN ELECTRICAL ROOM 045 BUS/MAIN (AMPS): 225A MCB NEMA TYPE: 1

CKT NO.	OCD A	OCD P	DESCRIPTION	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	3 PH SEQUENCE A	B	C	LOAD (KVA) MISC	HWH	HVAC	REC	LTG	DESCRIPTION	OCD A	OCD P	CKT NO.
1			SPACE						0.0								SPACE			2
3	20	1								0.0							EXISTING LOAD	20	2	4
5			SPACE								0.0						EXISTING LOAD	/	/	6
7			SPACE						0.0								SPARE	100	3	8
9			SPACE							0.0							SPARE	/	/	10
11			SPACE								0.0						SPARE	/	/	12
13	100	3	EXISTING LOAD						0.0								EXISTING LOAD	20	1	14
15	/	/	/							0.0							EXISTING LOAD	20	1	16
17	/	/	/								0.0						EXISTING LOAD	20	1	18
19			SPACE						0.0								EXISTING LOAD	100	3	20
21			SPACE							0.0							EXISTING LOAD	/	/	22
23			SPACE								0.0						EXISTING LOAD	/	/	24
25			SPACE						0.0								SPACE			**26**
27			SPACE							0.0							SPACE			**28**
29			SPACE								0.0						SPACE			**30**
CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
25% OF LARGEST MOTOR (KVA)																				
TOTAL CONNECTED LOAD (KVA)				0.0	0.0	0.0	0.0	0.0												
DEMAND FACTOR				1.0	1.25	1.0	X	1.25									TOTAL DEMAND (KVA)	0		
TOTAL DEMAND LOAD (KVA)				0.0	0.0	0.0	0.0	0.0									LINE CURRENT (AMPS)	0		

X= 1ST 10KVA @ 100%, + REMAINDER @ 50% (N.E.C. 220-44) HWH - HOT WATER HEATER
1 SPARE CIRCUIT MADE AVAILABLE AFTER DEMOLITION
2 PROVIDE NEW CIRCUIT BREAKER

KEY PANELS	
H1S (E)	L1S SEC 1 (E)
L1S SEC 2 (E)	
EDP (E)	

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Key Plan

Title
ELECTRICAL PANEL SCHEDULES

Date	01-16-2020
Project No.	1944
Drawing By	AH
CHK By	CO
Scale	AS NOTED

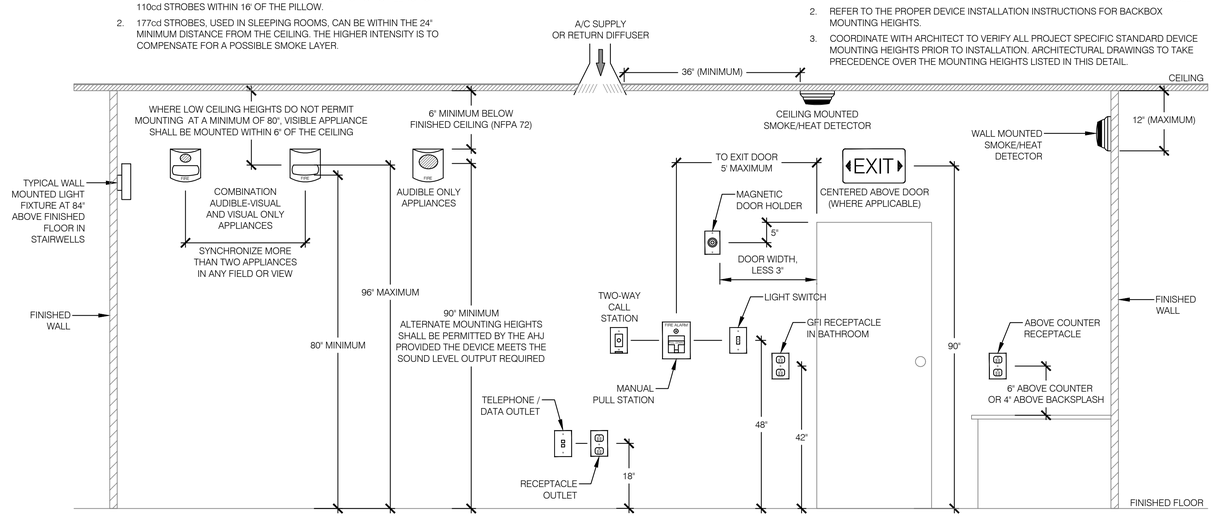
DOB Rev
E-602 .00
#

VISUAL APPLIANCE MOUNTING HEIGHT CONSIDERATIONS IN SLEEPING ROOMS

1. MINIMUM DISTANCE IN SLEEPING ROOMS IS 24' TO TOP OF LENS FOR 110cd STROBES WITHIN 16' OF THE PILLOW.
2. 177cd STROBES, USED IN SLEEPING ROOMS, CAN BE WITHIN THE 24" MINIMUM DISTANCE FROM THE CEILING. THE HIGHER INTENSITY IS TO COMPENSATE FOR A POSSIBLE SMOKE LAYER.

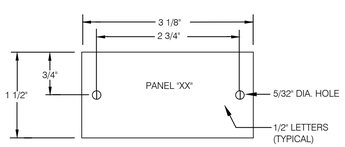
NOTES:

1. DEVICES SHALL BE INSTALLED ON A COMMON VERTICAL LINE WHEREVER POSSIBLE.
2. REFER TO THE PROPER DEVICE INSTALLATION INSTRUCTIONS FOR BACKBOX MOUNTING HEIGHTS.
3. COORDINATE WITH ARCHITECT TO VERIFY ALL PROJECT SPECIFIC STANDARD DEVICE MOUNTING HEIGHTS PRIOR TO INSTALLATION. ARCHITECTURAL DRAWINGS TO TAKE PRECEDENCE OVER THE MOUNTING HEIGHTS LISTED IN THIS DETAIL.



2 / E7.01 TYPICAL DEVICE MOUNTING HEIGHT

SCALE: NTS



NOTES:

1. REFER TO SPECIFICATIONS FOR ADDITIONAL NAMEPLATE REQUIREMENTS.
2. NAMEPLATE TO BE 1/16" THICK WHITE PLASTIC WITH BLACK CENTER LAMINATION. FACE SHALL BE WHITE, ENGRAVED LETTERS SHALL BE BLACK.
3. SECURE NAMEPLATE TO SURFACES WITH (2) FLAT HEAD BRASS SCREWS. ADHESIVE CEMENT SHALL NOT BE ALLOWED.

3 / E7.01 NAMEPLATE DETAIL

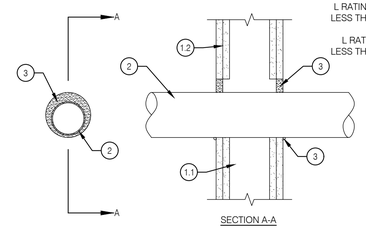
SCALE: NTS

GYPSUM WALLBOARD

F RATINGS - 1 AND 2 HR
T RATING - 0 HR

L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT

L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

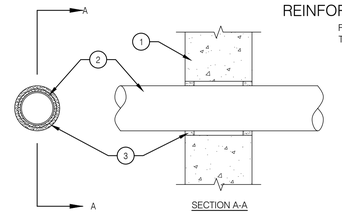


1. WALL ASSEMBLY - THE FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   - 1.1. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. OC.
   - 1.2. GYPSUM BOARD* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IN WOOD STUD WALLS IS 8 IN. MAX DIAM OF OPENING IN STEEL STUD WALLS IS 14 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANT - ONE METALLIC PIPE, CONDUIT OR TUBING TO BE INSTALLED WITHIN THE FIRESTOP SYSTEM. THE SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE A MIN 0 IN. (POINT CONTACT) TO A MAX 2 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED:
   - 2.1. STEEL PIPE - NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 5 (OR HEAVIER STEEL PIPE.
   - 2.2. IRON PIPE - NOM 12 IN. DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   - 2.3. CONDUIT - NOM 4 IN. DIAM (OR SMALLER) ELECTRICAL METALLIC TUBING, NOM 6 IN. DIAM (OR SMALLER) STEEL CONDUIT OR NOM 1 IN. DIAM (OR SMALLER) FLEXIBLE STEEL CONDUIT.
   - 2.4. COPPER TUBING - NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   - 2.5. COPPER PIPE - NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
3. FILL, VOID OR CAVITY MATERIAL* - CAULK - MIN 5/8 IN. THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. MIN 3/8 IN. DIAM BEAD OF FILL MATERIAL APPLIED AT POINT CONTACT LOCATION AT THE PENETRANT/GYPSUM BOARD INTERFACE ON BOTH SIDES OF WALL.

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2009. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.

REINFORCED CONCRETE

F RATING - 2 HR.
T RATING - 0 HR.



1. WALL ASSEMBLY - MIN 6 IN. (152 MM) THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF OR 1600-2400 KG/M3) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS*. MAX DIAM OF OPENING IS 25 IN. (635 MM). SEE CONCRETE BLOCKS (CAZT) CATEGORY IN THE FIRE RESISTANCE DIRECTORY FOR THE NAMES OF MANUFACTURERS.
2. THROUGH PENETRANT - ONE METALLIC PIPE, TUBING OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPES, TUBING OR CONDUITS AND PERIPHERY OF OPENING IS DEPENDENT UPON THE TYPE AND MAX DIAM OF THE THROUGH PENETRANT AS TABULATED BELOW. PIPE, TUBING OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, TUBING OR CONDUITS MAY BE USED:
   - 2.1. STEEL PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
   - 2.2. IRON PIPE - NOM 24 IN. (610 MM) DIAM (OR SMALLER) CAST OR DUCTILE IRON PIPE.
   - 2.3. COPPER TUBING - NOM 6 IN. (152 MM) DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
   - 2.4. COPPER PIPE - NOM 6 IN. (152 MM) DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.
   - 2.5. CONDUIT - NOM 4 IN. (102 MM) DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING, NOM 6 IN. (152 MM) DIAM GALV STEEL CONDUIT OR NOM 1 IN. DIAM FLEXIBLE STEEL CONDUIT.

TYPE OF THROUGH PENETRANT	MAX DIAM OF THROUGH PENETRANT, IN. (MM)	MIN & MAX ANNULAR SPACE, IN. (MM)
STEEL OR IRON PIPE	4 (102)	0, 1-1/2 (38)
STEEL TUBING OR CONDUIT	4 (102)	0, 1-1/2 (38)
STEEL CONDUIT	6 (152)	1/8 (3), 1/2 (13)
STEEL OR IRON PIPE	24 (610)	1/8 (3), 1/2 (13)
COPPER TUBING OR PIPE	6 (152)	1/8 (3), 1/2 (13)

3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. (16 MM) THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. AT THE POINT CONTACT LOCATION BETWEEN THROUGH PENETRANT AND CONCRETE. A MIN 3/8 IN. (10 MM) DIAM BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/THROUGH PENETRANT INTERFACE ON BOTH SURFACES OF WALL.

PENETRATIONS THROUGH STRUCTURE SHALL MAINTAIN FIRE RESISTANCE AND COMPLY WITH SECTION 713.4 OF THE IBC 2009. ALL ANNULAR SPACES BETWEEN RATED STRUCTURE/ENCLOSURE SHALL BE FILLED WITH APPROVED MATERIAL COMPLYING WITH REQUIREMENTS OF UL 1479.

1 / E7.01 THROUGH-PENETRATION FIRE STOP DETAILS

SCALE: NTS

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Key Plan

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ELECTRICAL DETAILS

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Project No.	1944
Drawing By	AH
CHK By	CO
Scale	AS NOTED

DOB Rev
E-701 .00
#

AS REQUIRED

UP TO 10 PER MODULE

LRF2-OCR2B-P-WH
434MHZ WIRELESS
OCCUPANCY/VACANCY SENSOR
3.57"[90,7mm] (DIA) X 1.13"[28,7mm] (D)
*DEVICE IS SURFACE-MOUNTED AND BATTERY POWERED, DOES NOT REQUIRE POWER FEED

LOCATION: AS PER PLANS

(OPTION:WITH L-CRMK-WH RECESS MOUNT KIT FOR NON-METALLIC CEILINGS)

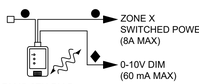
TYPICAL OVERRIDE - AS REQUIRED

UP TO 10 PER MODULE

PJ2-2B-GWH-XXX
434 MHZ PICO WIRELESS
2 BUTTON CONTROL
SHOWN WITH CW-1-WH
CLARO WALLPLATE
*SEE SPECIFICATION SHEET FOR DIMENSIONS, ENGRAVING OPTIONS, & MOUNTING INSTRUCTIONS

LOCATION: AS PER PLANS

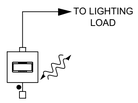
AS REQUIRED PER ZONE
FOR CONTROL OF 0-10V LOADS
FIXTURES: L1, L2



RMJS-8TN-DV-B
POWPAK DIMMING MODULE
120/277V~, 50/60 Hz
W/ 0-10 V CONTROL
DIMENSIONS:
3.42"(H) X 2.82"(W) X 1.25"(D)
(87mm X 72mm X 32mm)

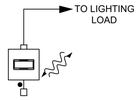
LOCATION: RESTROOMS

AS REQUIRED PER ZONE
FOR CONTROL OF ELV LOADS
FIXTURES: L5
DEVICE TO BE MOUNTED IN CEILING



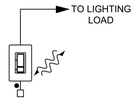
MRF2S-6ELV120-GR
MAESTRO WIRELESS
MULTI-LOCATION/SINGLE-POLE
DIGITAL FADE DIMMER
120V, 600W ELECTRONIC LOW-VOLTAGE
PLENUM RATED
(MOUNTS TO 2 GANG JBOX BY OTHERS)
LOCATION: RESTROOMS

AS REQUIRED PER ZONE
FOR CONTROL OF FWD PHASE LOADS
FIXTURES: L4
DEVICE TO BE MOUNTED IN CEILING



MRF2S-6ND-120-GR
MAESTRO WIRELESS
MULTI-LOCATION/SINGLE-POLE
SPEC GRADE DIMMER
120V, 600W/VA INCANDESCENT/HALOGEN
*NEUTRAL WIRE REQUIRED
PLENUM RATED
(MOUNTS TO 2 GANG JBOX BY OTHERS)
LOCATION: HALLWAY

AS REQUIRED PER ZONE
FOR CONTROL OF NON-DIM LOADS
IN CUSTODIAL CLOSETS



MRF2S-8SSV-WH
120/277V~, 50/60 Hz
MAESTRO SENSOR SWITCH
VACANCY SENSOR
SINGLE POLE/MULTI-LOCATION
*NEUTRAL WIRE REQUIRED
MANUAL ON/AUTO OFF
(1 GANG US BACKBOX BY OTHERS)

LOCATION: CUSTODIAL CLOSETS

WIRING LEGEND:

- INPUT POWER (NORMAL)
- 2 #12AWG (4 mm^2)
- 0-10V SIGNAL: 2 #18AWG (1.0 mm^2)
- 1-WAY RF COMMUNICATION
- 2-WAY RF COMMUNICATION

CONCEPT DRAWING NOTES:
CONTROL SYSTEM DRAWING IS PROVIDED FOR CONCEPTUAL PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION. EXACT EQUIPMENT REQUIREMENTS, INCLUDING LOCATIONS AND QUANTITIES, SHOULD BE VERIFIED IN ACCORDANCE WITH THE MOST UP-TO-DATE LIGHTING/ELECTRICAL REFLECTED CEILING PLANS, LIGHTING FIXTURE SCHEDULES, PANEL SCHEDULES, CONTROL INTENT AND SPECIFICATIONS. SHADE EQUIPMENT SHOULD BE VERIFIED IN ACCORDANCE WITH ARCHITECTURAL PLANS, SPECIFICATIONS AND WINDOW SCHEDULES/DETAILS.

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