

## **BIG RED BARN** ADA RESTROOM & OFFICE RENOVATION



# Cornell University

SITE PHOTO		
	GENERAL T-001 CIVIL C-001 C-101 C-301 ARCHITECTUR A-001 A-101 A-102 A-201	TITLE SHEET NOTES, LEGENDS AND ABBREVIATIONS RAMP DEMOLITION AND RENOVATION P DETAILS AL GENERAL NOTES, SYMBOLOGY, AND AE FIRST FLOOR DEMOLITION PLAN FIRST FLOOR RENOVATION PLAN FI EVATIONS
	FIRE PROTECT FP-001 FP-101 PLUMBING P-001 P-101 MECHANICAL M-001 M-101 M-501 ELECTRICAL E-001 E-101	TON FIRE PROTECTION GENERAL NOTES AN FIRE PROTECTION DEMOLITION AND RE PLUMBING GENERAL NOTES, SYMBOL L PLUMBING DEMOLITION AND RENOVATI MECHANICAL GENERAL NOTES AND SYM MECHANICAL DEMOLITION AND RENOVA MECHANICAL SCHEDULES GENERAL NOTES AND SYMBOL LEGENE ELECTRICAL DEMOLITION & RENOVATION
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POSE OF THIS PROJECT IS TO CREATE AN ADA ACCESSIBLE SINGLE-USER TOILET ROOM AND A NEW OFFICE IN THE BIG RED BARN (2040). THIS INCLUDES REPLACING THE EXTERIOR ENTRY STAIRS/ ADA RAMP, ADDING ADA OPERATORS TO THE MAIN ENTRY DOORS AND REPLACING THE R MAIN ENTRY DOORS (ALTERNATE).	1 1 1 1	EXTERIOR ELEVATION
	1/ A-101	PHOTO/ VIEW REFERENCE
	1 X-100	SECTION MARKER
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	#	CONSTRUCTION KEYED NOTE
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SHEET	INDEX		REVISIONS
			1         12/15/23         ISSUE FOR DD REVIEW           2         02/16/24         ISSUE FOR 95% REVIEW           3         03/21/24         ISSUE FOR CONSTRUCTION
ABBREVIATIONS D RENOVATION PLANS			
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L NOTES AND SYMBOL LEGENDS TON AND RENOVATION PLANS LES			
SYMBOL LEGENDS ION & RENOVATION PLANS			
			0' 4' 8' 12' 24' SCALE: 3/32" = 1'-0"
BOLS LEGEND	BUILDING CO	DDE SUMMARY	135 PRESIDENT'S DRIVE ITHACA, NEW YORK 14853
1 1 X-100 1 INTERIOR ELEVATION	APPLICABLE CODES 2020 NYS BUILDING CODE 2020 NYS EXISTING BUILDING CODE 2020 NYS FIRE CODE 2020 NYS PLUMBING CODE 2020 NYS MECHANICAL CODE 2020 NYS ENERGY CONSERVATION O 2009 ICC A117.1 ACCESSIBLE AND US 2010 AMERICANS WITH DISABILITIES	CODE SABLE BUILDINGS AND FACILITIES ACT (ADA)	BIG RED BARN ADA RESTROOM & OFFICE
ERENCE	PROJECT SUMMARY THIS PROJECT INCLUDES THE RENO DORMS). THE WORK IS ALTERATION FOR ALTERATION LEVEL INTERPRET	VATION OF (0,000) SF OF (LABS/OFFICES/ LEVEL (1/2/3) (INSERT JUSTIFICATION ATION HERE).	RENOVATION
	BUILDING LIMITATIONS CONSTRUCTION CLASSIFICATION: CLASSIFICATION OF HAZARDS: HIGH-RISE BUILDING: EXTINGUISHING REQUIREMENT:	V NONE NO THE EXISTING BUILDING IS FULLY SPRINKLERED	DATE:MARCH 21, 2024FACILITY:2040DESIGN:FE DESIGN
-	OCCUPANCY OCCUPANCY CLASSIFICATION:	ASSEMBLY (A)	DRAWN: JGC
EYED NOTE			
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IG TO REMAIN			
ITION / TO BE RELOCATED			T-001
PROVIDED / NEW			15921574

FACILITIES

ENGINEERING WWW.FCS.CORNELL.EDU ARCHITECTURAL, STRUCTURA CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICA ENGINEERING 201 HUMPHREYS SERVICE BLD ITHACA. NEW YORK 14853-370

T IS A VIOLATION OF NEW YORK STATE LAW FOR IY PERSON, UNLESS ACTING UNDER THE RECTION OF A LICENSED ARCHITECT OR NGINEER, TO ALTER THIS DOCUMENT IN ANY /AY. IF THIS DOCUMENT IS ALTERED, THE TERING ARCHITECT OR ENGINEER SHALL AFF SUCH DOCUMENT THEIR SEAL AND THE OTATION "ALTERED BY" FOLLOWED BY THEIF

GNATURE, THE DATE OF SUCH ALTERATION, A SPECIFIC DESCRIPTION OF THE ALTERATION

WARNING

ARCH/ CIVIL:

ELECTRICAL

MECHANICAL:

	UTILITY ABBREVIATIONS	SPECIAL INSPECTIONS	STRUCTURAL NOTES CONT'D	DIG SAFELY NOTES (UDig NY)	N UNIDA
	ABND ABANDONED BITUM BITUMINOUS CB CATCH BASIN	INSPECTIONS AND TESTS       INSPECTIONS AND TESTS       SPECIFICATION         (CONTINUOUS AND PERIODIC IS       CLARIFYING         AS DEFINED BY THE 2020 NYSBC       IL       O         AND ACI 318, LATEST ED.)       IL       IL	POST-INSTALLED ANCHORS 1. POST INSTALLED ANCHORS EMBEDDED IN CONCRETE SHALL USE HILTI HIT HY200R, DEWALT AC200+, DEWALT AC100+ GOLD, OR EQUAL.	1.0 CLICK OR CALL BEFORE YOU DIG. STATE LAW REQUIRES YOU TO PLACE A LOCATION REQUEST WITH UDig NY PRIOR TO DIGGING OR EXCAVATING. CALL 811 OR 1-800-962-7962, OR SUMBIT A REQUEST ONLINE AT UDIGNY.ORG. YOU WILL RECEIVE A LOCATION REQUEST NUMBER AND A LIST OF MEMBER UTILITY COMPANIES THAT WILL BE NOTIFIED OF YOUR PLANNED DIGGING PROJECT.	
	CONC CONCRETE COND CONDENSATE CW CITY WATER (CITY OF ITHACA DOMESTIC AND FIRE WATER) CWS/ CWR CHILLED WATER SUPPLY/ RETURN	OUCONCRETE CONSTRUCTION2020 BCNYS SECTION 1705.3 AND TABLE 1705.31. INSPECT REINFORCEMENT ANDXACI 318 CH. 20, 25.2, 25.3, 26.6.4 26.6.2 UPC 1008.4	<ul> <li><u>EARTHWORK</u></li> <li>THE VERTICAL BEARING PRESSURE IS ASSUMED TO BE 1500 PSF, THE LATERAL BEARING PRESSURE IS ASSUMED TO BE 100 PSF, AND THE COHESION IS ASSUMED TO BE 130 (PSF) PER THE 2020 BCNYS TABLE 1806.2 PRESUMPTIVE LOAD-BEARING VALUES. THE MAXIMUM BEARING PRESSURE IS FOR CLAY, SANDY CLAY, SILTY CLAY, CLAYEY SILT, SILT, AND SANDY SILT (CL, ML, MH AND CH) NO CENTECHNICAL INVESTIGATION HAS BEEN CONDUCTED AT THIS</li> </ul>	2.0 WAIT + LOCATE. ALLOW THE UTILITIES TIME TO LOCATE YOUR PROPOSED DIG SITE BY CONTACTING UDIg NY AT LEAST 2 AND NOT MORE THAN 10 FULL WORKING DAYS PRIOR TO STARTING YOUR WORK, NOT COUNTING THE DAY OF YOUR CALL, WEEKENDS, OR HOLIDAYS.	FACILITIES ENGINEERING
	DIA DIAMETER DW DOMESTIC WATER E ELECTRIC(AL) EL ELEVATION EXST EXISTING	VERIFY PLACEMENT.     26.6.1-26.6.3; IBC 1908.4       3. INSPECT ANCHORS CAST IN CONCRETE.     X       4. INSPECT ANCHORS POST-	<ul> <li>2. IF UNSUITABLE BEARING MATERIAL IS FOUND AT THIS LOCATION, FOUNDATIONS SHALL BE OVEREXCAVATED AND BEARING MATERIAL SHALL BE REPLACED WITH</li> </ul>	3.0 CONFIRM UTILITY RESPONSE. AFTER UDig NY HAS NOTIFIED MEMBER UTILITIES OF THE PENDING EXCAVATION, YOU ARE RESPONSIBLE FOR MAKING SURE EACH OPERATOR HAS RESPONDED PRIOR TO DIGGING ON YOUR STATED COMMENCEMENT DATE.	WWW.FCS.CORNELL.EDU ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL ENGINEERING
	FT FEET FW FIRE WATER (CORNELL UNIVERSITY FIRE AND DOMESTIC WATER)	a. ADHESIVE ANCHORS X ACL 318 CH 17.8.2.4	PSI. METAL HANDRAILS	<ul> <li>4.0 RESPECT THE MARKS. FAMILIARIZE YOURSELF WITH THE MARKINGS AND THE LOCATIONS OF BURIED FACILITIES AT THE SITE PRIOR TO EXCAVATION.</li> <li>5.0 DIG WITH CARE, DIG TEST HOLES TO VERIEY LOCATION, TYPE, SIZE</li> </ul>	201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
	HP HIGH POINT HYD HYDRANT ID INSIDE DIAMETER	INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	1. CONTRACTOR SHALL SUBMIT FOR REVIEW:     A. FINISH PRODUCT DATA AND COLOR SAMPLE     B. MILL TEST DATA WITH STRENGTH AND MATERIAL PROPERTIES     C SHOP DRAWING	DIRECTION-OF-RUN, AND DEPTH OF THE MARKED FACILITY.	WARNING IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY
	INVERT LP LOW POINT MH MANHOLE NG NATURAL GAS	b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINIED IN 40	2. ALL METAL MEMBERS SHALL BE INSTALLED WITH CAMBER UP, EXCEPT WHERE NOTED OTHERWISE ON DRAWINGS AND EXCEPT AT CANTILEVERS WHERE	CONCRETE CURING & FINISHING NOTES     RAMP FLATWORK AND CURB SHALL BE FLOATED AND HAND FINISHED. RAMP     SURFACE SHALL RECEIVE A MEDIUM BROOM FINISH PERPENDICULAR TO THE	WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
	ODOUTSIDE DIAMETERPCRPUMPED CONDENSATE RETURNPIVPOST INDICATOR AND VALVE	5. VERIFY USE OF REQUIRED         X         ACI 318 CH 19, 26.4.3, 26.4.4; IBC 1904.1, 1904.2, 1908.2	A     METAE MEMBERS SHALL BE INSTALLED WITH CAMBER DOWN.     METAE MEMBERS SHALL BE INSTALLED WITH CAMBER DOWN.     MORE AND FABRICATION SHALL PROCEED PRIOR TO SHOP DRAWING APPROVAL. SHOP     DRAWINGS MARKED "REJECTED" OR "REVISE AND RESUBMIT" MAY NOT BE     EABPLCATED WITHOUT ADDITIONAL CHANGES BEING MADE	<ul> <li>PATH OF TRAVEL. CURB SHALL BE TOOLED WITH A 1/2" EDGER ON TOP OF CURB ON BOTH EDGES AND A LIGHT BROOM FINISH ON THE TOP SURFACE.</li> <li>CURING SHALL EMPLOY A 7 DAY CONTINUOUS WET CURE WITH NO CONTACT FROM SHEET GOODS. BURLAP OR OTHER PRODUCTS. METHODS MAY INCLUDE</li> </ul>	ARCH/ CIVIL:
	PVMTPAVEMENTRRADIUSRDROADREFREFERENCEREQDREQUIRED	6. PRIOR TO CONCRETEXACI 318 CH 26.5, 26.12;PLACEMENT, FABRICATEASTM C172; ASTM C31;SPECIMENS FOR STRENGTHIBC 1908.10TESTS, PERFORM SLUMP AND AIRIBC 1908.10	<ul> <li>4. SHOP DRAWINGS SHALL INCLUDE DETAILS FOR APPLICATIONS AND ASSEMBLY OF ALL METAL MEMBERS; INCLUDE DETAILS OF CUTS, CONNECTIONS, HOLES, AND OTHER PERTINENT DATA; AND INDICATE WELDS BY STANDARD AWS 2.1 SYMBOLS SHOWING SIZE, LENGTH, AND TYPE OF EACH WELD. SHOP DRAWINGS SHALL BE SUBMITTED TO FOR FOR APPROVAL PRIOR TO FARPLICATION.</li> </ul>	MISTERS, SPRINKLERS AND/ OR TENTING TO MAINTAIN MOISTURE. FORMS MAY BE LEFT IN PLACE ON VERTICAL SURFACES UNTIL CONCRETE HAS HARDENED WHEN THEY SHALL BE STRIPPED, ANY IMPERFECTIONS PATCHED, AND ENTIRE WALL RUBBED. ONCE REPAIRS TO FINISH HAVE BEEN MADE THEY SHALL BE CONTINUOUSLY WET CURED WITH THE REMAINDER OF THE POUR. A PENETRATING SEALER SHALL BE APPLIED UPON COMPLETION OF CURING AND I	ELECTRICAL:
	STA STATION STM STEAM T TELEPHONE	THE TEMPERATURE OF THE CONCRETE.	<ul> <li>SHALL BE SUBMITTED TO EOR FOR APPROVAL PRIOR TO FABRICATION.</li> <li>SPLICING OF METAL MEMBERS WHERE NOT DETAILED ON THE CONTRACT DOCUMENTS IS PROHIBITED WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENCINEER AS TO LOCATION. TYPE OF SPLICE, AND CONNECTION TO BE MADE</li> </ul>	N ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS. REMOVE ANY EXCESS EXPANSION MATERIAL OR CAPS, AND CAULK ALL EXPANSION JOINTS WITH A CONCRETE CAULK UPON COMPLETION OF SEALING	TE OF NEW PO NUL ESHEPP NUL ESHEPP
	UDUNDERDRAINW/WITHW/OWITHOUTXSANITARY	PLACEMENT FOR PROPER     1908.6 - 1908.8       APPLICATION TECHNIQUES.     X       8. VERIFY MAINTENANCE OF     X	<ul> <li>6. ALL BOLT HOLES IN METAL MEMBERS SHALL BE 1/16" LARGER IN DIAMETER THAN THE NOMINAL SIZE OF THE BOLT USED, U.N.O. ON DRAWINGS.</li> </ul>	<ol> <li>PROVIDE SAWCUT JOINTS AT INTERVALS SHOWN ON PLANS FOR RAMP SURFACES AND CURBING WITHIN 8 HOURS OF PLACEMENT TO CONTROL SHRINKAGE CRACKS. CONCRETE SHALL REMAIN WET DURING CUTTING TO MAINTAIN PROPER CURING.</li> </ol>	A LICE A A A A A A A A A A A A A A A A A A A
	XX STORM WATER GENERAL ABBREVIATIONS	SPECIFIED CURING TEMPERATURE AND TECHNIQUES26.5.5; IBC 1908.911. VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OFXACI 318 CH 26.11.2	7. WELDING SHALL MEET THE REQUIREMENTS OF THE "STRUCTURAL WELDING CODE" AWS D1.1-2006. ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI AND BE LOW-HYDROGEN TYPE. THE LENGTH OF WELD SPECIFIED ON THE DRAWINGS IS THE MINIMUM EFFECTIVE LENGTH OF THE WELD. ALL WELDS	STRUCTURAL NOTES	PROFESSIONAL ET
	ADJ ADJACENT AFF ABOVE FINISHED FLOOR	SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.       12. INSPECT FORMWORK FOR       X       ACI 318 CH 26.11.1.2(b)	BASIS OF DESIGN:  ALL BRONZE SHALL BE COPPER ALLOY AND SHALL MEET THE REQUIREMENTS OF	CODES & GENERAL REQUIREMENTS     PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE 2020 NEW YORK     STATE EXISTING BUILDING CODE AND THE 2020 NEW YORK STATE BUILDING     CODE. THE FOLLOWING CODES AND STANDARDS ARE REFERENCED IN THE     PROJECT DOCUMENTS:	I       02/16/24       ISSUE FOR 95% REVIEW         2       03/21/24       ISSUE FOR CONSTRUCTION
	ALT ALTERNATE CC CENTER TO CENTER CLG CEILING CMU CONCRETE MASONRY UNIT	SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	<ul> <li>ASTM B455 ALLOY C38500 OR ASTM B36 ALLOY C28000.</li> <li>9. BRONZE FASTENERS AND THREADED RODS SHALL BE USED WITH BRONZE HANDRAIL. STEEL FASTENERS AND THREADED RODS SHALL BE USED WITH</li> </ul>	<ul> <li>A. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE</li> <li>B. AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS</li> <li>C. ASCE7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER</li> </ul>	
	COL COLUMN CONST CONSTRUCTION CONT CONTINUOUS	<ol> <li>NOTES:</li> <li>1. TESTING AND INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE 2020 BCNYS AND THE REQUIREMENTS OF</li> </ol>	<ul> <li>STEEL HANDRAIL. MINIMUM TENSILE STRENGTH OF THREADED RODS IS 50 KSI.</li> <li>10. ALL BRONZE HANDRAILS SHALL BE FABRICATED FROM SOLID BRONZE FLAT BARS WITH PATINA FINISH OF BLACK PATINA CB WITH ACRYLAQ-1045 FLAT LACQUER</li> </ul>	STRUCTURES WITH SUPPLEMENT NO. 1 2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF WORK.	
	DIM DIMENSION DTL DETAIL DWG DRAWING	<ol> <li>DESIGNATIONS FOR TESTING AND INSPECTION FREQUENCY:</li> <li>A. O - OBSERVE THESE ITEMS ON A RANDOM BASIS.</li> <li>OPERATIONS NEED NOT BE DELAYED BENDING THESE</li> </ol>	FROM SUR FIN CHEMICAL COMPANY OR APPROVED EQUAL. THOROUGHLY CLEAN AND PREPARE BRONZE BAR STOCK PRIOR TO FINISH APPLICATION. <i>ALTERNATE:</i>	TESTING & INSPECTIONS         1.       OWNER SHALL RETAIN THE SERVICES OF AN INSPECTION AGENCY TO         PERFORM THE FOLLOWING SERVICES. ADDITIONAL INSPECTIONS SHALL BE         PROVIDED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.	
	FF FINISHED GA GAUGE	B. P - PERFORM THESE TASKS FOR EACH WELDED JOINT OR MEMBER	11. ALL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC "STEEL CONSTRUCTION MANUAL" AND ALL WORK SHALL COMPLY WITH AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."	2. INSPECTION OF SUBGRADE BELOW ALL FOUNDATIONS AND SLAB ON GRADE TO VERIFY THE ADEQUACY OF THE BEARING MATERIAL.	
	H HEIGHT INCL INCLUDED INT INTERIOR		12. ALL STEEL HANDRAIL FABRICATION AND INSTALLATION SHALL COMPLY WITH AISC REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS).	CAST IN PLACE CONCRETE1.CLEAR COVER FOR REINFORCING STEEL SHALL BE PER THE TABLE ON THIS SHEET WHICH CONFORMS TO ACI 318-14 TABLE 20.6.1.3.1.	
	MAX MAXIMUM MIN MINIMUM MISC MISCELLANEOUS		<ol> <li>ALL STEEL NUTS SHALL MEET THE REQUIREMENTS OF ASTM A-563 DH OR ASTM A-194 2H.</li> <li>ALL STEEL WASHERS SHALL MEET REQUIREMENTS OF ASTM F-436.</li> </ol>	<ol> <li>CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD:</li> <li>A. SHOP DRAWINGS WITH REINFORCEMENT LAYOUT</li> <li>B. CEMENT PRODUCT DATA</li> </ol>	
	NICNOT IN CONTRACTNTSNOT TO SCALEOCON CENTERROROUGH OPENING		15. ALL STEEL HANDRAILS SHALL BE HOT DIP GALVANIZED AND POWDER COATED. FINISH COLOR SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE OFFICE OF THE UNIVERSITY ARCHITECT.	<ul> <li>a. PORTLAND CEMENT SHALL BE TYPE I, TYPE II, OR TYPE I-II AND SHALL MEET THE REQUIREMENTS OF ASTM C-150.</li> <li>C. AGGREGATE PRODUCT DATA INCLUDING GRADING</li> <li>D. MIX DESIGN PRODUCT DATA INCLUDING STRENGTH TESTS</li> <li>E. ADMIXTURE PRODUCT DATA</li> </ul>	
	SHT SHEET STD STANDARD STL STEEL TYP TYPICAL			a. WATER REDUCING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C-494. HIGH RANGE WATER REDUCING ADMIXTURES, OR SUPERPLASTICIZERS, SHALL MEET THE REQUIREMENTS OF ASTM C-494 TYPE F OR TYPE G.	
STRUCTURAL STELL GRADES	VERT VERTICAL VIF VERIFY IN FIELD W WIDTH			<ul> <li>AIR-ENTRAINING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C-260. AIR-ENTRAINMENT SHALL BE PER ACI 318-14 TABLE 19.3.3.1 WHERE AIR-ENTRAINING ADMIXTURES ARE USED.</li> <li>c. RETARDING AND ACCELERATING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C-494.</li> </ul>	
Image: Since Under Stell GRADES       Since Un				F. REINFORCEMENT MILL CERTIFICATES a. STEEL REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A-615 AND SHALL BE GRADE 60. EPOXY COATED STEEL REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM	
			WIDE FLANGE MEMBERS     A992, Fy = 50 KSI	A-175 AND SHALL DE GREADE 60. STAINLESS STEEL REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A-955. WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A-1064. STAINLESS STEEL WELDED WIRE FABRIC SHALL MEET THE DEOLUBEMENTS OF ASTM A 4000	135 PRESIDENT'S DRIVE ITHACA, NEW YORK 14853
			HSS RECTANGULAR MEMBERSA500 GRADE B, Fy = 46 KSIHSS ROUND MEMBERSA500 GRADE B, Fy = 42 KSI	G. CURING PRODUCTS H. LAYOUT OF ALL CONSTRUCTION JOINTS I. CURING METHODS I. HOT WEATHER PROCEDURES AND/OR COLD WEATHER PROCEDURES AND	BIG RED BARN
			CHANNELS AND ANGLESA36, Fy = 36 KSIPLATESA572. Fy = 50 KSI	APPLICABLE      FOR CONCRETE EXPOSED TO MOISTURE, 15% TO 20% OF THE CEMENTITIOUS     MATERIAL SHALL BE REPLACED WITH CLASS FELY ASH CONFORMING TO ASTA	ADA RESTROOM & OFFICE
EVENUE VOLUME     EVENUE VOLUME     EVENUE     EVE			PIPES         A53, Fy = 35 KSI           TUPEADED DODS         E1554 CDADE 26 EV = 26 KSI	<ul> <li>4. NORMAL WEIGHT AGGREGATES SHALL MEET THE REQUIREMENTS OF ASTM C-33</li> </ul>	RENOVATION
STUDETURAL GROIND       INTERPRETURATION       INTERPRETURATION <t< td=""><td></td><td></td><td>CONCRETE CLEAR COVER</td><td><ul> <li>a. COARSE AND FINE AGGREGATES MUST BE FROM A NYSDOT APPROVED SOURCE AND NOT BE FLAGGED FOR ASR.</li> <li>b. THE MINIMUM BULK SSD SPECIFIC GRAVITY OF THE COARSE AGGREGATE ON THE NEW YORK STATE DOT POSTED TEST RESULTS</li> </ul></td><td>DATE: MARCH 21, 2024</td></t<>			CONCRETE CLEAR COVER	<ul> <li>a. COARSE AND FINE AGGREGATES MUST BE FROM A NYSDOT APPROVED SOURCE AND NOT BE FLAGGED FOR ASR.</li> <li>b. THE MINIMUM BULK SSD SPECIFIC GRAVITY OF THE COARSE AGGREGATE ON THE NEW YORK STATE DOT POSTED TEST RESULTS</li> </ul>	DATE: MARCH 21, 2024
Image: Stable walls is able wall walls is able walls in the same walls is able walls is able walls is able walls in the same walls is able walls is able walls is able walls in the same walls is able walls is able walls in the same walls in the same walls is able walls in the same wall the same walls in the same walls in the same walls in the same			STRUCTURAL ELEMENTINTERIOR NOT IN CONTACT WITH GROUNDINTERIOR IN CONTACT WITH GROUND AND ALL EXTERIORALL CONCRETE CAST AGAINST AND	c. THE MAXIMUM ABSORPTION OF THE COARSE AGGREGATE ON THE NEW YORK STATE DOT POSTED TEST RESULTS SHALL BE 1.2%	FACILITY:2040DESIGN:OLSEN-BIEBER, TOFTE
			PERMANENTLY IN CONTACT WITH GROUND	<ol> <li>THE DENSITY OF THE CONCRETE MIX SHALL BE 145 PCF +/- 5 PCF FOR NORMAL WEIGHT CONCRETE.</li> <li>CONCRETE DURABILITY DESIGN CLASSIFICATIONS PER ACI 318-14 TABLE 19.3.1.1.</li> </ol>	DRAWN: EWK
ND JOISTS     AND JOISTS     1.1/2*     #14 & #18     2*     #6 THRU #18 BARS     6*     EXPOSURE CLASS AS STATED IN ACI 316-14 TABLE 19.3.2.1.     LEGENDS AND ABBREVIATIONS       BEAMS, COLUMNS, COLUMNS, AND TENSION TES     1.1/2*     #14 & #18     2*     #6 THRU #18 BARS     2*     #6 THRU #18 BARS     2*     #6 THRU #18 BARS     8     THE EXPOSURE CLASS AS STATED IN ACI 316-14 TABLE 19.3.2.1.     ABBREVIATIONS       BEAMS, COLUMNS, COLUMNS, COLUMNS, AND TENSION TES     PRIMARY HILS     1*1/2*     #14 & #18     2*     #6 THRU #18 BARS     3*     9     CONCRETE SHALL PROSURE CLASS AS STATED IN ACI 316-14 TABLE 19.3.2.1.     ABBREVIATIONS       BEAMS, COLUMNS, COLUMNS, TISS     1*1/2*     #14 & #18 BARS     2*     #6 THRU #18 BARS     3*     9     CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI UNLESS NOTED OTHERWISE.     C-001 15921574			3/4"     #11 & SMALLER     1-1/2"     #5 BAR, W31 OR D31 WIRE & SMALLER       SLABS, WALLS,     1-1/2"     #5 BAR, W31 OR D31 WIRE & SMALLER	<ul> <li>7. CONCRETE PRODUCER SHALL VERIFY THAT SUBMITTED CONCRETE MIXES DO NOT EXCEED THE MAXIMUM WATER-SOLUBLE CHLORIDE ION LIMITS PER THIS</li> </ul>	NOTES,
BEAMS, COLUMNS, PEDESTALS, AND TIES     PRIMARY EINFORCEMENT, SIPPALS, AND TIES     PRIMARY 1-1/2"     #5 BAR, W31 OR D31 WIRE & SMALLER     *     #5 BAR, W31 OR D31 WIRE & SMALLER     3"     Bengineer. CONTRACTOR IS REQUIRED TO CLEARLY NOTE ON THE DELIVERY CAN BE ADDITION FOR WITHHELD AT THE BATCHING PLANT THAT CAN BE ADDITION FOR THE DELIVERY CAN BE ADDITION FOR THE DELIVERY CA			AND JOISTS 1-1/2" #14 & #18 2" #6 THRU #18 BARS	<ul> <li>EXPOSURE CLASS AS STATED IN ACI 318-14 TABLE 19.3.2.1.</li> <li>8. THE WATER CEMENT RATIO SHALL BE 0.36 MINIMUM AND 0.40 MAXIMUM. THE CONTRACTOR IS NOT PERMITTED TO ADD MORE WATER THAN IS SPECIFIED ON THE SUBMITTED MIX DESIGNS WITHOUT APPROVAL FROM THE STRUCTURAL</li> </ul>	ABBREVIATIONS
PEDESIALS, AND TENSION TIES     1-1/2"     STIRRUPS, TIES, SPIRALS, AND HOOPS     3"     9.     CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000     C-001       2"     #6 THRU #18 BARS     2"     #6 THRU #18 BARS     3"     15921574			BEAMS, COLUMNS, DEFENSION COLUMNS, DEFENSION COLUMN	ENGINEER. CONTRACTOR IS REQUIRED TO CLEARLY NOTE ON THE DELIVERY TICKET THE QUANTITY OF WATER WITHHELD AT THE BATCHING PLANT THAT CAN BE ADDED ONSITE.	
			AND TENSION TIES 1-1/2" STIRRUPS, TIES, SPIRALS, AND HOOPS 2" #6 THRU #18 BARS 3"	PSI UNLESS NOTED OTHERWISE.	<b>C-UU1</b> 15921574

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POST-INST			٩Û	IES CONT	D				L UNIDA
	ALLED ANCHO ST INSTALLED 200R, DEWAL	<u>ORS</u> D ANCHORS EMBEDD T AC200+, DEWALT A(	ED IN C100+	CONCRETE SHALL U GOLD, OR EQUAL.	SE HILTI HIT	1.0	CLICK LOCAT OR 1-8 RECEI COMP	OR CALL BEFORE YOU DIG. STATE LAW REQUIRES YOU TO PLACE A ION REQUEST WITH UDIG NY PRIOR TO DIGGING OR EXCAVATING. CALL 811 00-962-7962, OR SUMBIT A REQUEST ONLINE AT UDIGNY.ORG. YOU WILL VE A LOCATION REQUEST NUMBER AND A LIST OF MEMBER UTILITY ANIES THAT WILL BE NOTIFIED OF YOUR PLANNED DIGGING PROJECT.	
LARTHWON 1. THE BEA ASS LOA SAN CH	SV EVERTICAL B RING PRESS UMED TO BE D-BEARING IDY CLAY, SIL	EARING PRESSURE I SURE IS ASSUMED TO 130 (PSF) PER THE 2 VALUES. THE MAXIMU TY CLAY, CLAYEY SII	S ASS ) BE 1( 2020 B JM BE LT, SIL	UMED TO BE 1500 PS 00 PSF, AND THE COH CNYS TABLE 1806.2 F ARING PRESSURE IS .T, AND SANDY SILT ( AS BEEN CONDUCTE	F, THE LATERAL IESION IS RESUMPTIVE FOR CLAY, CL, ML, MH AND	2.0	WAIT + BY CO PRIOR WEEK	LOCATE. ALLOW THE UTILITIES TIME TO LOCATE YOUR PROPOSED DIG SITE NTACTING UDIg NY AT LEAST 2 AND NOT MORE THAN 10 FULL WORKING DAYS TO STARTING YOUR WORK, NOT COUNTING THE DAY OF YOUR CALL, ENDS, OR HOLIDAYS.	FACILITIES ENGINEERING
LOC ASS 2. IF L SH/	ATION AND T SUMED. NSUITABLE E	BEARING MATERIAL IS	S FOU	ND AT THIS LOCATION	ES HAVE BEEN	3.0	CONFI THE PI OPERA COMM	RM UTILITY RESPONSE. AFTER UDig NY HAS NOTIFIED MEMBER UTILITIES OF ENDING EXCAVATION, YOU ARE RESPONSIBLE FOR MAKING SURE EACH ATOR HAS RESPONDED PRIOR TO DIGGING ON YOUR STATED ENCEMENT DATE.	WWW.FCS.CORNELL.EDU ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL ENGINEERING
LEA PSI	N CONCRETI	E WITH A MINIMUM 28	3 DAY	COMPRESSIVE STRE	NGTH OF 2000	4.0	RESPE LOCAT	CT THE MARKS. FAMILIARIZE YOURSELF WITH THE MARKINGS AND THE IONS OF BURIED FACILITIES AT THE SITE PRIOR TO EXCAVATION.	201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
METAL HAN I. CO A. B.	IDRAILS NTRACTOR S FINISH P MILL TES	HALL SUBMIT FOR RE RODUCT DATA AND C T DATA WITH STREN	EVIEW COLOF GTH A	: R SAMPLE ND MATERIAL PROPI	ERTIES	5.0	DIG W DIREC	TH CARE. DIG TEST HOLES TO VERIFY LOCATION, TYPE, SIZE, TION-OF-RUN, AND DEPTH OF THE MARKED FACILITY.	WARNING IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY
2. ALL		BERS SHALL BE INST		) WITH CAMBER UP, I		1		CRETE CURING & FINISHING NOTES	WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR
ME ME 3. NO DR	FABRICATION	S SHALL BE INSTALLE N SHALL PROCEED PI KED "REJECTED" OR	ED WI RIOR T "REVI	TH CAMBER DOWN.	PPROVAL. SHOP IAY NOT BE	2.	SURF PATH ON B CURI	ACE SHALL RECEIVE A MEDIUM BROOM FINISH PERPENDICULAR TO THE OF TRAVEL. CURB SHALL BE TOOLED WITH A 1/2" EDGER ON TOP OF CURB OTH EDGES AND A LIGHT BROOM FINISH ON THE TOP SURFACE. NG SHALL EMPLOY A 7 DAY CONTINUOUS WET CURE WITH NO CONTACT A SHEET GOODS, BURLAP, OR OTHER PRODUCTS, METHODS MAY INCLUDE	ARCH/ CIVIL:
4. SHO OF ANI SYN	OP DRAWING ALL METAL M O OTHER PER IBOLS SHOW	S SHALL INCLUDE DE IEMBERS; INCLUDE D RTINENT DATA; AND IN /ING SIZE, LENGTH, A	TAILS ETAILS DETAIL NDICA	FOR APPLICATIONS S OF CUTS, CONNEC TE WELDS BY STAND 'PE OF EACH WELD. S	AND ASSEMBLY TIONS, HOLES, ARD AWS 2.1 SHOP DRAWINGS		MISTI BE LE WHEI WALL CONT	ERS, SPRINKLERS AND/ OR TENTING TO MAINTAIN MOISTURE. FORMS MAY FT IN PLACE ON VERTICAL SURFACES UNTIL CONCRETE HAS HARDENED N THEY SHALL BE STRIPPED, ANY IMPERFECTIONS PATCHED, AND ENTIRE RUBBED. ONCE REPAIRS TO FINISH HAVE BEEN MADE THEY SHALL BE INUOUSLY WET CURED WITH THE REMAINDER OF THE POUR. A	ELECTRICAL: 27.K MECHANICAL:
5. SPI DO ENO	ALL BE SUBM ICING OF ME CUMENTS IS GINEER AS TO	ITTED TO EOR FOR A TAL MEMBERS WHEF PROHIBITED WITHOU D LOCATION, TYPE OI	.PPRO RE NO JT PRIO F SPLI	VAL PRIOR TO FABRI T DETAILED ON THE OR APPROVAL OF TH CE, AND CONNECTIO	CATION. CONTRACT E STRUCTURAL N TO BE MADE.	3	PENE N ACO RECO AND O COMP	TRATING SEALER SHALL BE APPLIED UPON COMPLETION OF CURING AND I CORDANCE WITH THE PRODUCT MANUFACTURER'S DIMMENDATIONS. REMOVE ANY EXCESS EXPANSION MATERIAL OR CAPS, CAULK ALL EXPANSION JOINTS WITH A CONCRETE CAULK UPON PLETION OF SEALING.	TEOFNEW FOR TEOFNEW FOR TOFNEW FOR TOFNE FOR TOFOE
). ALL THE	BOLT HOLES	S IN METAL MEMBERS ZE OF THE BOLT USE	S SHAL ED, U.N	LL BE 1/16" LARGER II N.O. ON DRAWINGS.	N DIAMETER THAN	0.	SURF SHRII MAIN	ACES AND CURBING WITHIN 8 HOURS OF PLACEMENT TO CONTROL NKAGE CRACKS. CONCRETE SHALL REMAIN WET DURING CUTTING TO TAIN PROPER CURING.	LICE
'. WE CO OF THE	LDING SHALL DE" AWS D1.1 70 KSI AND B E DRAWINGS	. MEET THE REQUIRE I-2006. ELECTRODES E LOW-HYDROGEN T IS THE MINIMUM EFF MUM 1/4" FILLET ME	MENT SHALI YPE. 1 ECTIV	S OF THE "STRUCTU L HAVE A MINIMUM TI THE LENGTH OF WEL E LENGTH OF THE W	RAL WELDING ENSILE STRENGTH D SPECIFIED ON ELD. ALL WELDS	005		STRUCTURAL NOTES	PROFESSION AL ET
BAS BAS	SIS OF DESIG	ALL BE COPPER ALLO		D SHALL MEET THE R	EQUIREMENTS OF	1.	<u>PES &amp; GE</u> PERF STAT CODE PROJ	ORM ALL CONSTRUCTION IN ACCORDANCE WITH THE 2020 NEW YORK E EXISTING BUILDING CODE AND THE 2020 NEW YORK STATE BUILDING THE FOLLOWING CODES AND STANDARDS ARE REFERENCED IN THE ECT DOCUMENTS:	REVISIONS         1       02/16/24       ISSUE FOR 95% REVIEW         2       03/21/24       ISSUE FOR CONSTRUCTION
AS 9. BR( HAI	M B455 ALLC DNZE FASTEN IDRAIL. STEE	NERS AND THREADED LERS AND THREADED L FASTENERS AND T	336 ALI D ROD HREA	LOY C28000. S SHALL BE USED WI DED RODS SHALL BE	TH BRONZE USED WITH		А. В. С.	ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ASCE7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER	
STE 10. ALL WIT FRG	EL HANDRAI BRONZE HAI H PATINA FIN M SUR FIN C	L. MINIMUM TENSILE NDRAILS SHALL BE FA NISH OF BLACK PATIN CHEMICAL COMPANY	STREI ABRIC IA CB <sup>V</sup> OR AF	NGTH OF THREADED ATED FROM SOLID B WITH ACRYLAQ-1045 PROVED FQUAL, TH	RODS IS 50 KSI. RONZE FLAT BARS FLAT LACQUER DROUGHLY	2. TEST		STRUCTURES WITH SUPPLEMENT NO. 1 RACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD R TO THE START OF WORK.	
CLE AL7	AN AND PRE	PARE BRONZE BAR S	STOCK	PRIOR TO FINISH AF	PLICATION.	1.	OWN PERF PROV	ER SHALL RETAIN THE SERVICES OF AN INSPECTION AGENCY TO ORM THE FOLLOWING SERVICES. ADDITIONAL INSPECTIONS SHALL BE IDED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.	
I1. ALL "ST "CC	STEEL SHAL EEL CONSTR DE OF STANI	L BE FABRICATED AN UCTION MANUAL" AN DARD PRACTICE FOR	ND ERI ID ALL R STEE	ECTED IN ACCORDAN WORK SHALL COMP EL BUILDINGS AND BF	ICE WITH AISC LY WITH AISC RIDGES."	2.	INSPE VERIF	ECTION OF SUBGRADE BELOW ALL FOUNDATIONS AND SLAB ON GRADE TO TY THE ADEQUACY OF THE BEARING MATERIAL.	
12. AL AIS (AE	L STEEL HANI C REQUIREM SS).	DRAIL FABRICATION A ENTS FOR ARCHITEC	AND IN TURA	ISTALLATION SHALL	COMPLY WITH CTURAL STEEL	<u>CAS</u> 1.	<u>T IN PLAC</u> CLEA SHEE	<u>CE CONCRETE</u> R COVER FOR REINFORCING STEEL SHALL BE PER THE TABLE ON THIS T WHICH CONFORMS TO ACI 318-14 TABLE 20.6.1.3.1.	
3. ALL A-1	STEEL NUTS 94 2H.	SHALL MEET THE RE	EQUIR	EMENTS OF ASTM A-	563 DH OR ASTM	2.	CONT THE E	RACTOR SHALL SUBMIT THE FOLLOWING FOR REVIEW AND APPROVAL BY INGINEER OF RECORD:	
4. ALL 5. ALL	STEEL WASH	HERS SHALL MEET RI	equir T dip (	EMENTS OF ASTM F-	436. WDER COATED.		B.	CEMENT PRODUCT DATA a. PORTLAND CEMENT SHALL BE TYPE I, TYPE II, OR TYPE I-II AND SHALL MEET THE REQUIREMENTS OF ASTM C-150.	
FIN OFI	SH COLOR S ICE OF THE I	HALL BE SUBMITTED UNIVERSITY ARCHITE	FOR F ECT.	REVIEW AND APPROV	AL BY THE		D. E.	AGGREGATE PRODUCT DATA INCLUDING GRADING MIX DESIGN PRODUCT DATA INCLUDING STRENGTH TESTS ADMIXTURE PRODUCT DATA a. WATER REDUCING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C-494. HIGH RANGE WATER REDUCING	
								ADMIXTURES, OR SUPERPLASTICIZERS, SHALL MEET THE REQUIREMENTS OF ASTM C-494 TYPE F OR TYPE G. b. AIR-ENTRAINING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C-260. AIR-ENTRAINMENT SHALL BE PER ACI 318-14 TABLE 19.3.3.1 WHERE AIR-ENTRAINING ADMIXTURES ARE USED.	
							F.	<ul> <li>c. RETARDING AND ACCELERATING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C-494.</li> <li>REINFORCEMENT MILL CERTIFICATES</li> <li>a. STEEL REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A 645 AND SHALL BE CRADE 60. EDOXY COATED STEEL</li> </ul>	
	STR	UCTURAL S	STE	EL GRADE	S			REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A-775 AND SHALL BE GREADE 60. STAINLESS STEEL REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM	135 PRESIDENT'S DRIVE
WIDE FLAM	IGE MEMBER	S	ŀ	A992, Fy = 50 KSI				A-955. WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM OF ASTM A-1064. STAINLESS STEEL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A-1022	ITHACA, NEW YORK 14853
HSS RECT	ANGULAR ME	EMBERS	/	A500 GRADE B, Fy = 4	6 KSI		G. H.	CURING PRODUCTS LAYOUT OF ALL CONSTRUCTION JOINTS	
		S		A500 GRADE B, Fy = 4	2 KSI		I. J.	HOT WEATHER PROCEDURES AND/OR COLD WEATHER PROCEDURES AS APPLICABLE	BIG RED BARN
				A572, Fy = 50 KSI		3.	FOR	CONCRETE EXPOSED TO MOISTURE, 15% TO 20% OF THE CEMENTITIOUS RIAL SHALL BE REPLACED WITH CLASS F FLY ASH CONFORMING TO ASTM	& OFFICE
PIPES				453, Fy = 35 KSI			C-618		RENOVATION
THREADE	RODS		F	-1554 GRADE 36, Fy =	36 KSI	4.	NORN AND	AL WEIGHT AGGREGATES SHALL MEET THE REQUIREMENTS OF ASTM C-33 THE FOLLOWING CRITERIA: COARSE AND FINE AGGREGATES MUST BE FROM A NYSDOT APPROVED	
	CO	NCRETE C	LE	AR COVER			b.	SOURCE AND NOT BE FLAGGED FOR ASR. THE MINIMUM BULK SSD SPECIFIC GRAVITY OF THE COARSE AGGREGATE ON THE NEW YORK STATE DOT DOSTED TEST DECUMTO	DATE: MARCH 21. 2024
	AL INTE	RIOR NOT IN	INTE	RIOR IN CONTACT	ALL CONCRETE		C.	SHALL BE 2.67. THE MAXIMUM ABSORPTION OF THE COARSE AGGREGATE ON THE NEW	FACILITY: 2040
IVILINI	GRO	UND	EXTE	ERIOR	AND PERMANENTLY IN CONTACT	5.		YORK STATE DUT POSTED TEST RESULTS SHALL BE 1.2% DENSITY OF THE CONCRETE MIX SHALL BE 145 PCF +/- 5 PCF FOR NORMAL	DESIGN: OLSEN-BIEBER, TOFTE DRAWN: EWK
	2///"	#11 & SMALLEP	1_1/2	#5 BAR, W31 OR	WITH GROUND	6.	CONC SHAL REQU	CRETE DURABILITY DESIGN CLASSIFICATIONS PER ACI 318-14 TABLE 19.3.1.1. L BE F3, C2, W1, AND S0. CONCRETE MIX DESIGNS SHALL MEET THE JIREMENTS OF ACI FOR THOSE CATEGORIES.	
SLABS, WA AND JOISTS	LLS,	" #1/ 9 #10	0"	#6 THRU #18	3"	7.	CONC NOT I EXPC	CRETE PRODUCER SHALL VERIFY THAT SUBMITTED CONCRETE MIXES DO EXCEED THE MAXIMUM WATER-SOLUBLE CHLORIDE ION LIMITS PER THIS SURE CLASS AS STATED IN ACI 318-14 TABLE 19.3.2.1.	NOTES, LEGENDS AND
	1-1/2	# 14 Q # 10	2	#5 BAR, W31 OR		8.	THE V CONT THE S ENGII TICKE	VATER CEMENT RATIO SHALL BE 0.36 MINIMUM AND 0.40 MAXIMUM. THE RACTOR IS NOT PERMITTED TO ADD MORE WATER THAN IS SPECIFIED ON SUBMITTED MIX DESIGNS WITHOUT APPROVAL FROM THE STRUCTURAL NEER. CONTRACTOR IS REQUIRED TO CLEARLY NOTE ON THE DELIVERY ET THE QUANTITY OF WATER WITHHELD AT THE BATCHING PLANT THAT	ADDREVIATIONS
3EAMS, COLUMNS, PEDESTAL	S, 1-1/2 ON	PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	2"	#6 THRU #18	3"	9.	CAN I CONC PSI U	BE ADDED ONSITE. CRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 NLESS NOTED OTHERWISE.	C-001

STRUCTURAL N	NOTES CONT'D	DIG SAFELY NOTES (UDig NY)	AL UNIVE
OST-INSTALLED ANCHORS POST INSTALLED ANCHORS EMBEDDE HY200R, DEWALT AC200+, DEWALT AC	ED IN CONCRETE SHALL USE HILTI HIT C100+ GOLD, OR EQUAL.	1.0 CLICK OR CALL BEFORE YOU DIG. STATE LAW REQUIRES YOU TO PLACE A LOCATION REQUEST WITH UDIG NY PRIOR TO DIGGING OR EXCAVATING. CALL 811 OR 1-800-962-7962, OR SUMBIT A REQUEST ONLINE AT UDIGNY.ORG. YOU WILL RECEIVE A LOCATION REQUEST NUMBER AND A LIST OF MEMBER UTILITY COMPANIES THAT WILL BE NOTIFIED OF YOUR PLANNED DIGGING PROJECT.	
THE VERTICAL BEARING PRESSURE IS BEARING PRESSURE IS ASSUMED TO ASSUMED TO BE 130 (PSF) PER THE 20 LOAD-BEARING VALUES. THE MAXIMU SANDY CLAY, SILTY CLAY, CLAYEY SIL CH). NO GEOTECHNICAL INVESTIGATION	S ASSUMED TO BE 1500 PSF, THE LATERAL BE 100 PSF, AND THE COHESION IS 020 BCNYS TABLE 1806.2 PRESUMPTIVE M BEARING PRESSURE IS FOR CLAY, T, SILT, AND SANDY SILT (CL, ML, MH AND ON HAS BEEN CONDUCTED AT THIS	2.0 WAIT + LOCATE. ALLOW THE UTILITIES TIME TO LOCATE YOUR PROPOSED DIG SITE BY CONTACTING UDig NY AT LEAST 2 AND NOT MORE THAN 10 FULL WORKING DAYS PRIOR TO STARTING YOUR WORK, NOT COUNTING THE DAY OF YOUR CALL, WEEKENDS, OR HOLIDAYS.	FACILITIES ENGINEERING
LOCATION AND THEREFORE THE LOW ASSUMED. IF UNSUITABLE BEARING MATERIAL IS SHALL BE OVEREXCAVATED AND BEA	FOUND AT THIS LOCATION, FOUNDATIONS	3.0 CONFIRM UTILITY RESPONSE. AFTER UDig NY HAS NOTIFIED MEMBER UTILITIES OF THE PENDING EXCAVATION, YOU ARE RESPONSIBLE FOR MAKING SURE EACH OPERATOR HAS RESPONDED PRIOR TO DIGGING ON YOUR STATED COMMENCEMENT DATE.	WWW.FCS.CORNELL.EDU ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL ENGINEERING
LEAN CONCRETE WITH A MINIMUM 28 PSI.	DAY COMPRESSIVE STRENGTH OF 2000	4.0 RESPECT THE MARKS. FAMILIARIZE YOURSELF WITH THE MARKINGS AND THE LOCATIONS OF BURIED FACILITIES AT THE SITE PRIOR TO EXCAVATION.	201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
ETAL HANDRAILS CONTRACTOR SHALL SUBMIT FOR RE A. FINISH PRODUCT DATA AND C B. MILL TEST DATA WITH STRENG	VIEW: OLOR SAMPLE GTH AND MATERIAL PROPERTIES	5.0 DIG WITH CARE. DIG TEST HOLES TO VERIFY LOCATION, TYPE, SIZE, DIRECTION-OF-RUN, AND DEPTH OF THE MARKED FACILITY.	WARNING IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY
ALL METAL MEMBERS SHALL BE INSTA	ALLED WITH CAMBER UP, EXCEPT WHERE	CONCRETE CURING & FINISHING NOTES         1.       RAMP FLATWORK AND CURB SHALL BE FLOATED AND HAND FINISHED. RAMP	WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE THE DATE OF SUCH AI TERATION AND
METAL MEMBERS SHALL BE INSTALLE NO FABRICATION SHALL PROCEED PR DRAWINGS MARKED "REJECTED" OR ' FABRICATED WITHOUT ADDITIONAL C	D WITH CAMBER DOWN. NOR TO SHOP DRAWING APPROVAL. SHOP REVISE AND RESUBMIT" MAY NOT BE HANGES BEING MADE	<ul> <li>SURFACE SHALL RECEIVE A MEDIUM BROOM FINISH PERPENDICULAR TO THE PATH OF TRAVEL. CURB SHALL BE TOOLED WITH A 1/2" EDGER ON TOP OF CURB ON BOTH EDGES AND A LIGHT BROOM FINISH ON THE TOP SURFACE.</li> <li>CURING SHALL EMPLOY A 7 DAY CONTINUOUS WET CURE WITH NO CONTACT FROM SHEET GOODS, BURLAP OR OTHER PRODUCTS. METHODS MAY INCLUDE</li> </ul>	A SPECIFIC DESCRIPTION OF THE ALTERATION.  ARCH/ CIVIL:
SHOP DRAWINGS SHALL INCLUDE DE OF ALL METAL MEMBERS; INCLUDE DE AND OTHER PERTINENT DATA; AND IN SYMBOLS SHOWING SIZE, LENGTH, AN	TAILS FOR APPLICATIONS AND ASSEMBLY ETAILS OF CUTS, CONNECTIONS, HOLES, IDICATE WELDS BY STANDARD AWS 2.1 ND TYPE OF EACH WELD. SHOP DRAWINGS	MISTERS, SPRINKLERS AND/ OR TENTING TO MAINTAIN MOISTURE. FORMS MAY BE LEFT IN PLACE ON VERTICAL SURFACES UNTIL CONCRETE HAS HARDENED WHEN THEY SHALL BE STRIPPED, ANY IMPERFECTIONS PATCHED, AND ENTIRE WALL RUBBED. ONCE REPAIRS TO FINISH HAVE BEEN MADE THEY SHALL BE CONTINUOUSLY WET CURED WITH THE REMAINDER OF THE POUR. A PENETRATING SEALER SHALL BE APPLIED UPON COMPLETION OF CURING AND L	ELECTRICAL:     27.2       MECHANICAL:     37.2
SHALL BE SUBMITTED TO EOR FOR AF SPLICING OF METAL MEMBERS WHER DOCUMENTS IS PROHIBITED WITHOUT ENGINEER AS TO LOCATION, TYPE OF	PROVAL PRIOR TO FABRICATION. E NOT DETAILED ON THE CONTRACT T PRIOR APPROVAL OF THE STRUCTURAL SPLICE, AND CONNECTION TO BE MADE.	N ACCORDANCE WITH THE PRODUCT MANUFACTURER'S RECOMMENDATIONS. REMOVE ANY EXCESS EXPANSION MATERIAL OR CAPS, AND CAULK ALL EXPANSION JOINTS WITH A CONCRETE CAULK UPON COMPLETION OF SEALING. 3. PROVIDE SAWCUT JOINTS AT INTERVALS SHOWN ON PLANS FOR RAMP	TEOFNEW FOR TEOFNEW FOR THE OFNEW FOR THE OFFNE THE OFNEW FOR THE OFFNE THE OFNE FOR THE OFFNE THE OFTNE FOR THE OFFNE THE OFFNE THE OFTNE FOR THE OFFNE THE
ALL BOLT HOLES IN METAL MEMBERS THE NOMINAL SIZE OF THE BOLT USEI	SHALL BE 1/16" LARGER IN DIAMETER THAI D, U.N.O. ON DRAWINGS.	SURFACES AND CURBING WITHIN 8 HOURS OF PLACEMENT TO CONTROL SHRINKAGE CRACKS. CONCRETE SHALL REMAIN WET DURING CUTTING TO MAINTAIN PROPER CURING.	HERE AND
WELDING SHALL MEET THE REQUIREN CODE" AWS D1.1-2006. ELECTRODES S OF 70 KSI AND BE LOW-HYDROGEN TY THE DRAWINGS IS THE MINIMUM EFFE SHALL BE A MINIMUM 1/4" FILLET WELL	MENTS OF THE "STRUCTURAL WELDING SHALL HAVE A MINIMUM TENSILE STRENGT (PE. THE LENGTH OF WELD SPECIFIED ON ECTIVE LENGTH OF THE WELD. ALL WELDS D U.N.O. ON DRAWINGS		PROFESSIONAL INT
BASIS OF DESIGN: ALL BRONZE SHALL BE COPPER ALLO	Y AND SHALL MEET THE REQUIREMENTS C	1.       PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE 2020 NEW YORK         STATE EXISTING BUILDING CODE AND THE 2020 NEW YORK STATE BUILDING         CODE. THE FOLLOWING CODES AND STANDARDS ARE REFERENCED IN THE         PROJECT DOCUMENTS:	I       02/16/24       ISSUE FOR 95% REVIEW         2       03/21/24       ISSUE FOR CONSTRUCTION
BRONZE FASTENERS AND THREADED HANDRAIL. STEEL FASTENERS AND TH STEEL HANDRAIL. MINIMUM TENSILE S	RODS SHALL BE USED WITH BRONZE HREADED RODS SHALL BE USED WITH STRENGTH OF THREADED RODS IS 50 KSI.	<ul> <li>A. ACI 318-14 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE</li> <li>B. AISC 360-16 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS</li> <li>C. ASCE7-16 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES WITH SUPPLEMENT NO. 1</li> </ul>	
D. ALL BRONZE HANDRAILS SHALL BE FA WITH PATINA FINISH OF BLACK PATINA FROM SUR FIN CHEMICAL COMPANY ( CLEAN AND PREPARE BRONZE BAR S	ABRICATED FROM SOLID BRONZE FLAT BAR A CB WITH ACRYLAQ-1045 FLAT LACQUER DR APPROVED EQUAL. THOROUGHLY TOCK PRIOR TO FINISH APPLICATION.	2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS IN THE FIELD PRIOR TO THE START OF WORK. <u>TESTING &amp; INSPECTIONS</u> 1. OWNER SHALL RETAIN THE SERVICES OF AN INSPECTION AGENCY TO	
ALTERNATE:	D FRECTED IN ACCORDANCE WITH AISC	PERFORM THE FOLLOWING SERVICES. ADDITIONAL INSPECTIONS SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.	
"STEEL CONSTRUCTION MANUAL" AND "CODE OF STANDARD PRACTICE FOR	D ALL WORK SHALL COMPLY WITH AISC STEEL BUILDINGS AND BRIDGES."	VERIFY THE ADEQUACY OF THE BEARING MATERIAL.	
2. ALL STEEL HANDRAIL FABRICATION A AISC REQUIREMENTS FOR ARCHITEC <sup>-</sup> (AESS).	ND INSTALLATION SHALL COMPLY WITH TURALLY EXPOSED STRUCTURAL STEEL	1. CLEAR COVER FOR REINFORCING STEEL SHALL BE PER THE TABLE ON THIS     SHEET WHICH CONFORMS TO ACI 318-14 TABLE 20.6.1.3.1.	
3. ALL STEEL NUTS SHALL MEET THE RE A-194 2H.	QUIREMENTS OF ASTM A-563 DH OR ASTM	<ol> <li>CONTRACTOR SHALL SUBMIT THE FOLLOWING FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD: A. SHOP DRAWINGS WITH REINFORCEMENT LAYOUT</li> </ol>	
<ol> <li>ALL STEEL WASHERS SHALL MEET RE</li> <li>ALL STEEL HANDRAILS SHALL BE HOT FINISH COLOR SHALL BE SUBMITTED I OFFICE OF THE UNIVERSITY ARCHITED</li> </ol>	QUIREMENTS OF ASTM F-436. DIP GALVANIZED AND POWDER COATED. FOR REVIEW AND APPROVAL BY THE CT.	<ul> <li>B. CEMENT PRODUCT DATA</li> <li>a. PORTLAND CEMENT SHALL BE TYPE I, TYPE II, OR TYPE I-II AND SHALL MEET THE REQUIREMENTS OF ASTM C-150.</li> <li>C. AGGREGATE PRODUCT DATA INCLUDING GRADING</li> <li>D. MIX DESIGN PRODUCT DATA INCLUDING STRENGTH TESTS</li> </ul>	
		E. ADMIXTURE PRODUCT DATA a. WATER REDUCING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C-494. HIGH RANGE WATER REDUCING ADMIXTURES, OR SUPERPLASTICIZERS, SHALL MEET THE REQUIREMENTS OF ASTM C-494 TYPE F OR TYPE G.	
		<ul> <li>b. AIR-ENTRAINING ADMIXTURES SHALL MEET THE REQUIREMENTS OF ASTM C-260. AIR-ENTRAINMENT SHALL BE PER ACI 318-14 TABLE 19.3.3.1 WHERE AIR-ENTRAINING ADMIXTURES ARE USED.</li> <li>c. RETARDING AND ACCELERATING ADMIXTURES SHALL MEET THE</li> </ul>	
		REQUIREMENTS OF ASTM C-494. F. REINFORCEMENT MILL CERTIFICATES a. STEEL REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A-615 AND SHALL BE GRADE 60. EPOXY COATED STEEL	
STRUCTURAL S	STEEL GRADES	REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A-775 AND SHALL BE GREADE 60. STAINLESS STEEL REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM	135 PRESIDENT'S DRIVE
VIDE FLANGE MEMBERS	A992, Fy = 50 KSI	A-955. WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A-1064. STAINLESS STEEL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A-1022.	ITHACA, NEW YORK 14853
	A500 GRADE B, Fy = 46 KSI	G. CURING PRODUCTS H. LAYOUT OF ALL CONSTRUCTION JOINTS	
155 KUUND MEMBERS	A300 GRADE B, Fy = 42 KSI	J. HOT WEATHER PROCEDURES AND/OR COLD WEATHER PROCEDURES AS APPLICABLE	ADA RESTROOM
PLATES	A572, Fy = 50 KSI	3. FOR CONCRETE EXPOSED TO MOISTURE, 15% TO 20% OF THE CEMENTITIOUS MATERIAL SHALL BE REPLACED WITH CLASS FELVASH CONFORMING TO ASTA	& OFFICE
PIPES	A53, Fy = 35 KSI		RENOVATION
THREADED RODS	F1554 GRADE 36, Fy = 36 KSI	4. NORMAL WEIGHT AGGREGATES SHALL MEET THE REQUIREMENTS OF ASTM C-33 AND THE FOLLOWING CRITERIA:	
CONCRETE C	LEAR COVER	<ul> <li>a. COANSE AND FINE AGGREGATES MUST BE FROM A NYSDOT APPROVED SOURCE AND NOT BE FLAGGED FOR ASR.</li> <li>b. THE MINIMUM BULK SSD SPECIFIC GRAVITY OF THE COARSE</li> </ul>	
TRUCTURAL INTERIOR NOT IN	INTERIOR IN CONTACT ALL CONCRETE	AGGREGATE ON THE NEW YORK STATE DOT POSTED TEST RESULTS SHALL BE 2.67. C. THE MAXIMUM ABSORPTION OF THE COARSE AGGREGATE ON THE NEW	FACILITY: 2040
LEMENT CONTACT WITH GROUND	WITH GROUND AND ALL CAST AGAINST EXTERIOR AND DEDMANIENTLY	YORK STATE DOT POSTED TEST RESULTS SHALL BE 1.2%	DESIGN: OLSEN-BIEBER, TOFTE
	IN CONTACT WITH GROUND	<ul> <li>THE DENSITY OF THE CONCRETE MIX SHALL BE 145 PCF +/- 5 PCF FOR NORMAL WEIGHT CONCRETE.</li> </ul>	DRAWN: EWK
	#5 BAR, W31 OR	<ul> <li>CONCRETE DURABILITY DESIGN CLASSIFICATIONS PER ACI 318-14 TABLE 19.3.1.1.</li> <li>SHALL BE F3, C2, W1, AND S0. CONCRETE MIX DESIGNS SHALL MEET THE REQUIREMENTS OF ACI FOR THOSE CATEGORIES.</li> </ul>	
LABS, WALLS, ND JOISTS	I-1/2" D31 WIRE & SMALLER 3"	7. CONCRETE PRODUCER SHALL VERIFY THAT SUBMITTED CONCRETE MIXES DO NOT EXCEED THE MAXIMUM WATER-SOLUBLE CHLORIDE ION LIMITS PER THIS	
1-1/2" #14 & #18	2" #6 THRU #18 BARS	<ul> <li>EXPOSURE CLASS AS STATED IN ACI 318-14 TABLE 19.3.2.1.</li> <li>8. THE WATER CEMENT RATIO SHALL BE 0.36 MINIMUM AND 0.40 MAXIMUM. THE CONTRACTOR IS NOT PERMITTED TO ADD MORE WATER THAN IS SPECIFIED ON THE SUBMITTED MIX DESIGNS WITHOUT APPROVAL FROM THE STRUCTURAL ENGINEER. CONTRACTOR IS RECURDED TO AD ADD Y ADD TO AD THE STRUCTURAL ENGINEER. CONTRACTOR IS RECURDED TO AD ADD Y ADD TO AD THE STRUCTURAL</li> </ul>	ABBREVIATIONS
EAMS, OLUMNS, EDESTALS, ND TENSION IES PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	1-1/2"       #5 BAR, W31 OR         D31 WIRE &       SMALLER         2"       #6 THRU #18         BARS       3"	<ul> <li>ENGINEER. CONTRACTOR IS REQUIRED TO CLEARLY NOTE ON THE DELIVERY TICKET THE QUANTITY OF WATER WITHHELD AT THE BATCHING PLANT THAT CAN BE ADDED ONSITE.</li> <li>9. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI UNLESS NOTED OTHERWISE.</li> </ul>	C-001
			15921574





(#)	C-101 KEYED DEMOLITION NOTES	ELE UNIDA
1	REMOVE EXISTING RAMP, PAVERS, RAILINGS, STEPS, AND RELATED COMPONENTS AS SHOWN.	
2	EXISTING ELECTRICAL MANHOLE TO BE INSPECTED. IF INSPECTION INDICATES ABANDONMENT IS APPROPRIATE, REMOVE LID AND FRAME, AND BACKFILL	
3	REMAINING STRUCTURE. REMOVE EXISTING LLENROC SEAT WALL. SALVAGE EXISTING STONEWORK AND	ADED A.D.
4	SAWCUT EXISTING ASPHALT PAVING TO EXTENT SHOWN AND DISPOSE OF	FACILITIES
#	C-101 KEYED IMPROVEMENT NOTES	ENGINEERING
1	PROVIDE 5" THICK INTEGRALLY COLORED MACRO FIBER REINFORCED CONCRETE	WWW.FCS.CORNELL.EDU ARCHITECTURAL, STRUCTURAL,
	COLOR SHALL BE A SLATE GRAY TO MATCH NATURAL TONES OF SELECTED GRANITE VENEER AND OTHER STONWORK. FINAL COLOR SELECTION TO BE	CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL
	PROVIDED BY CORNELL REPRESENTATIVE. PROVIDE TOOLED CONTRACTION JOINT AT RAMP MIDPOINT. REFER TO CONCRETE CURING AND FINISHING NOTES ON C-001	201 HUMPHREYS SERVICE BLDG
2	PROVIDE 6" WIDE x 30" DEEP CONCRETE WALL AND CURB PER DETAIL 5/ C-301.	
	PROTECTION. PROVIDE TOOLED CONTRACTION JOINT IN CURB AT RAMP MIDPOINT. PROVIDE EXPANSION JOINTS AT RAMP CURB TOP AND BOTTOM TO SEPARATE THE	IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE
	POURS. REFER TO CONCRETE CURING AND FINISHING NOTES ON C-001 FOR ADDITIONAL INFORMATION.	DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFEIX
3	NEW HANDRAIL: BRONZE JULIUS BLUM #4535 HANDRAIL PROFILE ON 1-1/2x3/4" BAR STOCK SUB-STRUCTURE & POSTS, POSTS TO BE WELDED TO 6" x3"Wx1/4" STEEL	TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND
	MOUNTING PLATES IN "L" OR "T" CONFIGURATIONS PER PLAN. PLATES TO BE BOLTED TO TOP OF CONCRETE CURB WALL GRADE BEAM USING NUT STANDOFFS.	A SPECIFIC DESCRIPTION OF THE ALTERATION.
4	PROVIDE WASHED ROUND RIVER COBBLES NOT EXCEEDING 2" IN DIAMETER ON GEOTEXTILE WEED CONTROL FABRIC, WITH COLORS TO MATCH PROPOSED	ARCH/ CIVIL:
5	STONEWORK. NEW POST-MOUNTED DOOR OPERATOR AND CARD READER. SEE ARCHITECTURAL	
6	PROVIDE 4" HDPE UNDERDRAIN PIPE, DISCHARING THROUGH UNIVERSAL RETAINING WALL BLOCK DRAIN (WALL DRAIN PRO BY SRW PRODUCTS OR FOLIAL)	
	AT JOINT BETWEEN MONOLITHIC GRANITE BLOCKS AND ONTO EXISTING PAVEMENT.	TEOFNEW
7	PROVIDE THREE (3) NEW MONOLITHIC GRANITE BLOCKS TO FORM SEAT WALL. PROVIDE TWO (2) 6 3/4" THICK SOLID GRANITE STEPS AS SHOWN.	A A A A A A A A A A A A A A A A A A A
9	PROVIDE GRANITE CURBING TO MATCH EXISTING WHERE EXISTING STEP WAS REMOVED.	ER
10 11	PROVIDE ASPHALT PAVING PER DETAILS 2 AND 3/ C-301. PROVIDE ONE (1) 7" THICK x 12" DEEP SOLID GRANITE STEP AS SHOWN.	The second secon
		PROFESSIONAL ST
		REVISIONS           1         02/16/24         ISSUE FOR 95% REVIEW
		2 03/21/24 ISSUE FOR CONSTRUCTION
		+
		<u>0' 1' 2' 3' 6'</u>
		SCALE: 3/8" = 1'-0"
		135 PRESIDENT'S DRIVE
		ITHACA, NEW YORK 14853
		BIG RED BARN
		RENOVATION
		DATE: MARCH 21, 2024
		FACILITY: 2040
		DRAWN: EWK
		DEMOLITION AND
	UDIG·NY	RENOVATION
	SAFE DIGGING STARTS HERE	PLANS
		U-101
		15921574 /





				GENERA	AL NOTES		RAL UNIVE	
RY AGE METAL FRA	AMING	1.0	DESIGN, CONSTR OWNER SPECIFIC UNIFORM FIRE PR LIFE SAFETY COD ANY OTHER CODE	UCTION AND SAFET CODES, INCLUDING OTECTION AND BUI E, LATEST REVISION S GOVERNED BY TH	Y SHALL CONFORM G (BUT NOT LIMITED LDING CODE, LATES N, ANSI A117.1 - LATI HE JURISDICTION IN	TO ALL LOCAL, STATE AN TO) THE NEW YORK STAT ST REVISION, THE NFPA 1 EST REVISION, OSHA, ANI WHICH THIS PROJECT IS	ND TE 01 D	
		2.0	THIS CONTRACT F AREAS INDICATED MATERIALS AND L	OR FACILITIES				
INE 1 RY OPENING		3.0	WHERE MATERIAL	LS REFERENCED ON	N DRAWINGS, OR NE	CESSARY TO COMPLETE	ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL,	
PLICABLE CONTRACT ED SCALE			QUALITY MATERIA PROVIDE CLOSES AND WORK ON DF WHICH HAS BEEN THE OWNER. WH WHERE THE STRU	LS. WHERE MATER T POSSIBLE MATCH AWINGS ARE NEW, DAMAGED SHALL E ERE ITEMS CAN NO JCTURAL INTEGRITY	RIALS ARE INTENDED I, SUBJECT TO OWN UNLESS INDICATED REPAIRED OR RE T BE REPAIRED TO A ( HAS BEEN AFFECT	D TO MATCH EXISTING, ER'S APPROVAL. ALL ITEM EXISTING. ALL WORK PLACED AT NO COST TO A ""NEW CONDITION"", OR ED, ITEMS SHALL BE	MS 201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701 WARNING	
TER E DIAMETER FURNISHED, CTOR INSTALLE G ER STRAND BOA	ED ARD	4.0	REPLACED AT NO CONTRACTOR IS I CONDITIONS PRIC ANY DISCREPANC PROJECT MANAGI ARCHITECT/ENGIN	COST TO THE OWN RESPONSIBLE TO V OR TO SUBMITTING I LIES BETWEEN DRAY ER, WHO WILL REQU NEER AND PROVIDE	IER. ERIFY ALL SITE, FIEL BIDS AND COMMENC WINGS AND FIELD C JEST CLARIFICATION CLARIFICATION IN V	LD AND BUILDING CING WORK. IF THERE ARI ONDITIONS, NOTIFY THE N FROM THE WRITING.	IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.	
MINUS PER SQUARE F PER SQUARE I RE TREATED	FOOT NCH	5.0	WHERE EXISTING OR DISTURBED FO UNFINISHED AND/ SURFACES SHALL AREAS. ALL ABAN ROOF OR FLOOR	CONSTRUCTION OF DR INSTALLATION OF OR DAMAGED SURF BE RECONSTRUCT DONED OPENINGS TO BE INFILLED SOI	R ITEMS HAVE BEEN F NEW WORK, CAUS FACES RESULTING S ED WITH MATERIALS (i.e. DUCT/PIPE REMO LID.	INFILLED, REMOVED AND BING THE EXPOSURE OF BURFACES AND INFILLED S TO MATCH FINISHED OVALS, ETC.) AT WALLS,	ARCH/ CIVIL: ELECTRICAL: MECHANICAL:	)
FED CEILING PL RAIN ERATOR ED	AN	6.0	WORK IS REQUIRE OTHER TRADES (i SHOWN ON DRAW REMOVAL / REPLA CONSTRUCTION A SPACES OR AREA	ED IN VARIOUS POR .e. ELECTRICAL, ME /INGS, WORK IS REG ACEMENT OF CEILIN AS NECESSARY TO F .S TO ORIGINAL COM	TIONS OF THE FACI CHANICAL). ALTHOU QUIRED IN THESE AF GS, WALLS, FINISHE PERFORM WORK AN NDITION.	LITY TO EXECUTE WORK IGH NOT NECESSARILY REAS CONSISTING OF S, PAVEMENT AND OTHE D RESTORE THESE	OF ER	
DPENING DP UNIT ING FOOT/ FEET		7.0	GENERAL CONTRA WORK PROGRESS AND INTERFEREN LOCATIONS, TEMP NECESSARY FOR INSTALLATION OF LOCATION OF ALL	ACTOR IS TO COOR S THROUGHOUT THI CES. OBTAIN ALL N PLATES, LAYOUT, DI A PROPER AND WE ITEMS, VERIFY ANE ITEMS.	DINATE WORK OF A E ENTIRE PROJECT ECESSARY INFORM/ MENSIONS AND ALL LL COORDINATED IN CONFIRM WITH EA	LL TRADES. SCHEDULE TO PREVENT CONFLICTS ATION SUCH AS SIZES, OTHER INFORMATION ISTALLATION. PRIOR TO CH CONTRACTOR EXACT	PROFESSION ALL	
SS STEEL RD : & GROOVE DNE		8.0	ALL PENETRATION WALLS - IN AREA FLOORS, ROOFS A INCLUDE (BUT AR TO BEAMS, AND C FORM OR PACKIN	NS (EXISTING OR NE OF WORK TO BE FIF AND WALLS TO BE F E NOT LIMITED TO) ONTROL OR EXPAN G MATERIAL AND TH	EW) THROUGH FLOO RE STOPPED. ALL GA TRE & SMOKE STOP TOP OF WALL TO FL ISION JOINTS. FIRE S HE FILL, VOID OR CA	RS AND FULL HEIGHT APS AND JOINTS AT RATE PED. GAPS AND JOINTS OOR OR ROOF DECK, WA STOPPING INCLUDES BOT VITY MATERIAL. PROVIDE	ED THE E	
ATURE STEEL ION		9.0	JOBSITE WILL BE	CLEANED DAILY AN	D DEBRIS REMOVED	O TO CONTAINERS OR TO		
DOORS W/ VISI FLUSH DOOR NOTED OTHER	ION PANEL WISE	10.0	REMOVED AS SOC POINT THAT A CO CONTRACTOR IS I	NAS FULL OR WHE NTAINER IS NO LON RESPONSIBLE FOR	EN THE PROJECT HA GER REQUIRED. PROTECTING ALL AF	REAS USED TO BRING		
OMPOSITION TIL N FIELD	E		OUTSIDE THE PRO CORRIDOR SHALL	DIECT AREA INCLUE DECT AREA INCLUE BE REPAIRED AT N	OROJECT AREA. AND NOT LIMITI	NY DAMAGE TO AREAS ED TO THE LOBBY AND 'NER.		J
ULE								
GLAZING TYPE - -	HARDWARI 3 4	E SET	HEAD	JAMB	THRESHOLD	REMARKS		
- IG-1	2							
ľ	INTERIOR • BA EG	DOORS	S AND FRAMES: DESIGN FOR STILE STILE & RAIL BY VT	E AND RAIL DOORS INDUSTRIES OR AF	- PPROVED EQUAL.		0' 1' 2' 3' 6 SCALE: 3/8" = 1'-0"	
	EXTERIOR • BA	DI DOOR SIS OF	AND FRAME: DESIGN FOR STILE				135 PRESIDENT'S DRIVE ITHACA, NEW YORK 14853	]
2", 7 1/2"	AF • IG-1 1" • 1 • 1 • 1	PROVE M <u>EGENI</u> INSULA /4" LOW /2" ARG /4" CLE	D EQUAL. ATCH EXISTING DC TED GLASS UNITS: -E #2 SURFACE CL ON AIR SPACE WIT AR TEMPERED GLA	OR & FRAME PROF EAR TEMPERED GL TH SPACER	ILE AND DIMENSION	J	BIG RED BARN ADA RESTROOM & OFFICE RENOVATION	
	<u>DOOR HAR</u> <u>SE</u> T 1:	DWARE	<u>E SETS</u>				DATE: MARCH 21 2024	
	EXISTING H (1) ADA OPI (3) PUSH PI (1) PUSH PI SET 2: (2) LUNCES	IARDW/ ERATO LATE SV LATE SV	ARE TO BE REUSED R LCN 46 WITCH CAMD WITCH CAMD	O ON NEW DOORS F 642 X DARK BRONZ EN 45/A4 EN 45/A4-WT		FOR CARD ACCESS.	FACILITY: 2040 DESIGN: J. COOLBAUGH DRAWN: JGC	
	(3) HINGES (1) MORTIS (1) CYLINDE (1) CLOSEF (1) WALL BU <u>SET 3:</u>	: E LOCK ER X JMPER	SET: SARGI RESTF SARGI SARGI S DCI 32	INEY 1A2714 X 4 1/2 ENT V21 X 8225 X VI RICTED CYLINDER F ENT 351 X UO X 10 2 11T X US10	2" X 4 1/2", NRP, US1 N1L X LH X US10 PROVIDED BY CU HA ( 120 DEGRESS	U ARDWARE CENTER	GENERAL NOTES,	
	(3) HINGES (1) MORTIS (1) CYLINDE (1) CLOSER <u>SET 4:</u>	: E LOCK ER R	ISET: MCKIN SARGI RESTF SARGI	INEY TA2714 X 4 1/2 ENT 8255 X LNL X U RICTED CYLINDER F ENT 351 X UO X 10 >	2" X 4 1/2", NRP, US1 S10 PROVIDED BY CU HA ( 120 DEGRESS	0 ARDWARE CENTER	SYMBOLOGY, AND ABBREVIATIONS	
	(3) HINGES (1) MORTIS (1) CYLINDE	: E LOCK ER	SET: MCKIN SARGI RESTF	INEY TA2714 X 4 1/2 ENT 8204 X LNL X U RICTED CYLINDER F	2" X 4 1/2", NRP, US1 S10 PROVIDED BY CU HA	0 ARDWARE CENTER	A-001	_
							15921574	



1.0	A-101 GENERAL DEMOLITION NOTES CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO THE START OF DEMOLITION.	
2.0	CONTRACTOR IS RESPONSIBLE TO REPAIR ANY DAMAGED SUSTAINED TO ADJACENT EXISTING CONDITIONS DURING THE REMOVAL OF EXISTING BUILDING ELEMENTS.	THE AS
3.0	CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL REMOVALS WITH THE MEPFP CONTRACTORS.	FACILITIES ENGINEERING
(#	) A-101 KEYED DEMOLITION NOTES	WWW.FCS.CORNELL.EDU
$\begin{array}{c} 1\\ 1\\ 2\\ 3\end{array}$	REMOVE EXISTING HARDWOOD FLOORING DOWN TO EXISTING SUBFLOOR. REMOVE EXISTING WOOD WINDOW. PREP WALL FOR INFILL. REMOVE EXISTING WOOD DOOR EXISTING FRAME TO REMAIN PREP DOOR FRAME	ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL ENGINEERING
4	FOR NEW DOOR LEAF.         REMOVE EXISTING TV AND WOOD WALL. TURN TV OVER TO OWNER.         REMOVE EXISTING EXTERIOR WOOD DOORS AND FRAME. PREP OPENING FOR NEW	201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
6	WOOD DOOR AND FRAME. (ALTERNATE) REMOVE A PORTION OF EXISTING CONCRETE SLAB TO ACCESS SANITARY LINE	WARNING IT IS A VIOLATION OF NEW YORK STATE LAW FOR
7	BELOW. COORDINATE LOCATION WITH PLUMBING DRAWINGS. REMOVE A PORTION OF EXISTING WALL. COORDINATE LOCATION WITH PLUMBING	ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY
8	DRAWINGS. TO THE EXTENTS SHOWN, REMOVE EXISTING GYPSUM WALLBOARD DOWN TO EXISTING WOOD STUDS FOR A HEIGHT OF 7'-0" A.F.F EXISTING GYPSUM WALLBOARD ABOVE 7'-0" TO REMAIN AND BE PREPPED FOR PAINT.	WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
9	REMOVE A PORTION EXISTING WOOD BASE FOR INSTALLATION OF NEW WALL.	
10	COORDINATE THE REMOVAL OF THE RAMP AND STAIRS WITH CIVIL DRAWINGS.	ARCH/ CIVIL: ELECTRICAL:
		MECHANICAL:
		TEOFNEW PO A POULESHEPOP
		ERIX *
		15 084093 · 5
		PROFESSION ALL
		REVISIONS
		2         02/16/24         ISSUE FOR 95% REVIEW           3         03/21/24         ISSUE FOR CONSTRUCTION
		0' 2' 4' 8' SCALE: 1/4" = 1'-0" 135 PRESIDENT'S DRIVE ITHACA, NEW YORK 14853
		BIG RED BARN ADA RESTROOM & OFFICE RENOVATION
		DATE: MARCH 21, 2024
		FACILITY:2040DESIGN:J. COOLBAUGH
		DRAWN: JGC
		FIRST FLOOR DEMOLITION PLAN
		A-101



_			
		FINISH LEGEND (BASIS OF DESIGN PRODUCTS)	
		ROOM #AREACLG FINWALL FINFLR FINBASE FIN	FACILITIES
	EXG	EXISTING TO REMAIN	ENGINEERING
	GYP	GYPSUM BOARD	ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL
	PT1	BENJAMIN MOORE, COLOR: 912 "LINEN WHITE", EGGSHELL INTERIOR WALLS (TYPICAL INTERIOR WALLS)	ENGINEERING 201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
	PT2	BENJAMIN MOORE, COLOR MATCH EXISTING, FLAT CEILING/ EXPOSED DUCT/ PIPING	WARNING IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE
	WDW	WOOD WALL BOARDS (BEADED FIR TO MATCH EXISTING)	DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE
	WDB	WOOD BASE (TO MATCH EXISTING)	NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
	CBT	COVE BASE TILE, 4" x 4" AMERICAN OLEAN - COLORSTORY WALL GLAZED CERAMIC PATTERN / COLOR: 0061 "MATTE DESIGNER WHITE"	ARCH/ CIVIL: ELECTRICAL:
	UFT	UNGLAZED FLOOR TILE, 1" x 1" MOSAICS AMERICAN OLEAN - UNGLAZED COLORBODY PORCELAIN MOSAICS PATTERN / COLOR: A48 "TRUSTED BLEND"	MECHANICAL:
	GWT	GLAZED WALL TILE, 4" x 16" AMERICAN OLEAN - COLORSTORY WALL GLAZED CERAMIC PATTERN / COLOR: 0061 "MATTE DESIGNER WHITE"	THE OF NEW FOR NTE OF NEW FOR NUL ESHED H THE SHE OF NEW FOR NUL ESHED H NUL E
	#         A           1         PROVI	DE NEW ADA DOOR OPERATOR.	POFESSIONALL
	2 PROVI 3 NEW C 4 PROVI 0F RO 5 PROVI 6 INFILL	DE A SURFACE MOUNTED ADA PADDLE. CUSTOM ADA BOLLARD. REFER TO A-201 FOR MORE INFORMATION. DE NEW 1/2" CEMENT BOARD AND TILE UP TO 7'-0" A.F.F. AROUND PERIMETER OM. PAINT EXISTING GYPSUM WALLBOARD ABOVE. DE NEW GRAB BARS. REFER TO A-001 FOR SIZES AND MOUNTING LOCATIONS. CONCRETE SLAB WHERE NEW PLUMBING LINE WAS INSTALLED. REFER TO	I       12/15/23       ISSUE FOR DD REVIEW         2       02/16/24       ISSUE FOR 95% REVIEW         3       03/21/24       ISSUE FOR CONSTRUCTION
	7 PROVI (ALTEF	ON ON A-201. DE NEW EXTERIOR WOOD DOOR AND FRAME TO MATCH EXISTING. RNATE)	
	8 INFILL ADJAC 9 INFILL	WALL WITH LIKE MATERIALS AFTER REMOVAL OF EXISTING WINDOW. MATCH ENT FINISH. CONCRETE SLAB WHERE NEW PLUMBING LINE WAS INSTALLED. REFER TO	
	10 WELD JUNCT	ON ON A-201. PROVIDE NEW QUARRY TILE TO MATCH EXISTING. A 1/8" STEEL PLATE TO THE COLUMN TO PROVIDE A MOUNT FOR ADA PADDLE TON BOX. PAINT TO MATCH EXISTING COLUMN COLOR.	
P.	ARTITION TY P1:	(PES: 2"X4" WOOD STUD @ 16" O.C. WITH 3 1/2" SOUND BATT AND BEADED FIR	
	BOAR <b>P2</b> : WALL OTHE	DS (TO MATCH EXISTING) ON BOTH SIDES. NO FIRE RATING. 2"X4" WOOD STUD @ 16" O.C. WITH 1 LAYER OF 5/8" TYPE X GYPSUM BOARD ON ONE SIDE AND 1 LAYER OF 1/2" CEMENT BOARD ON THE R. NO FIRE RATING.	
			0' 2' 4' 8' SCALE: 1/4" = 1'-0"
			135 PRESIDENT'S DRIVE ITHACA, NEW YORK 14853
			BIG RED BARN ADA RESTROOM & OFFICE RENOVATION
			DATE:MARCH 21, 2024FACILITY:2040DESIGN:J. COOLBAUGH
			DRAWN: JGC
			FIRST FLOOR RENOVATION PLAN
			A-102 15921574





	RAL DRAWING SYMBOLOGY         SHED WORK         G PIPING TO REMAIN         G TO REMAIN         F CONNECTION         F DISCONNECTION         FORTECTION ABBREVIATIONS         KFLOW PREVENTOR         TOM OF PIPE         IN         PIPE VALVE         PROTECTION         TO SCALE         UCED PRESSURE ZONE ASSEMBLY         INKLER         ICAL         TER METER	<ul> <li>FIRE PROTECTION SCOPE OF WORK</li> <li>PROVIDE MODIFICATIONS TO EXISTING DRY SPRINKLER SYSTEM TO PROVIDE ADEQUATE COVERAGE IN NEW OFFICE AND BATHROOM.</li> <li>FIRE PROTECTION GENERAL NOTES</li> <li>IT IS THE INTENT OF THESE DRAWINGS TO PROVIDE MODIFICATIONS TO THE DRY FIRE PROTECTION SYSTEMS FOR THE PROTECTION OF THE BIG RED BARN.</li> <li>PRIOR TO ALTERATIONS, THE SPRINKLER CONTRACTOR SHALL FIELD VERIFY EXTENT OF ALTERATION AND NEW WORK, WITH REGARD TO EXISTING CONDITIONS AT PIPE PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS AND SOFFITS.</li> <li>ALL SPRINKLER COMPONENTS SHALL BE UNDERWRITER'S LABORATORIES (UL) AND FACTORY MUTUAL (FM) APPROVED.</li> <li>NEW SPRINKLER SYSTEM PIPING SHALL BE INSTALLED IN EXPOSED CEILING AREAS AS SHOWN ON PLANS. PIPING AND HANGER ASSEMBLIES SHALL BE UN-PAINTED.</li> <li>THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE GENERAL ARRANGEMENT OF THE ITEMS INCLUDED IN THE FIRE PROTECTION WORK. AS SUCH, CONTRACTOR SHALL PROVIDE A COMPLETE SPRINKLER SYSTEM IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF FM GLOBAL STANDARDS, THE NFPA 13-INSTALLATION OF FIRE PROTECTION SYSTEMS TO WITHSTAND SEISMIC EVENTS SHALL BE IN ACCORDANCE WITH THE CRUTERIA DEVELOPED BY THE NFPA 13-INSTALLATION OF FIRE PROTECTION SYSTEMS TO WITHSTAND SEISMIC EVENTS SHALL BE IN ACCORDANCE WITH THE CRUTERIA DEVELOPED BY THE NFPA.</li> <li>CONTRACTOR SHALL REQUEST SPRINKLER SYSTEM SHUTDOWNS THROUGH CORNEL CUSTOMER SERVICE (607.255.5322) A MINIMUM OF TEN (10) DAYS PRIOR TO THE SHUTDOWN DATE. THE CONTRACTOR SHALL BE ART THE COST STATE SUBJECTION SYSTEMS TO WITHSTAND SEISMIC EVENTS SHALL BE IN ACCORDANCE WITH THE BUILDING COORDINATE.</li> <li>COORDINATE THE EXACT LOCATION OF SPRINKLER SYSTEM SHUTDOWNS THROUGH CORNELL CUSTOMER SERVICE (607.255.5322) A MINIMUM OF TEN (10) DAYS PRIOR TO THE SHUTDOWN DATE. THE CONTRACTOR SHALL BEAR THE COST OF THE UTILITY SHUTDOWN NOTIFY THE OWNER'S REPRESENTATIVE TO COORDINATE BUILDING FUNCTIONS WITH THE BUILDING COORDINATOR.</li> <li>COORDI</li></ul>	<image/> <section-header></section-header>
INVES       MANF BOD       MODEL BOD (SIN)       RESPONSE       ORIFICE (IN)       K-FACTOR       TEMPER         B. 101C       RELIABLE       F156 (RA3125)       STANDARD       1/2       5.6         FIRE PROTECTION SUBMITTAL RE         FIRE PROTECTION SUBMITTAL RE         MATERIAL         DESCRIPTION       MATERIAL         JOIN MATERIAL         ATTENDES         STEEL PIPE & FITTINGS         316       DRY-PIPE SPRINKLER SYSTEMS       STEEL PIPE & FITINGS         STEEL PIPE & FITINGS         316       -         FIRE PROTECTION VALVES	ATURE RATING ('F)       CONSTRUCTION       FINISH         155       BRASS       BRONZE         GISTRY         SOURD: DRAWINGS       SURAWINGS         SSURAWINGS       SURAWINGS         SSURAWINGS       SURAWINGS         SSURAWINGS       SCHEDNICT DATA         SSURAWINGS       SURAWINGS         SURAWINGS       SURAWINGS	<ul> <li>VALVE WHENEVER PRACTICAL ALL TRAPPED SECTIONS OF PIPE, EXCEPT THOSE SUPPLYING A SINGLE SPRINKLER, SHALL BE PROVIDED WITH A DRUM-DRIP ASSEMBLY.</li> <li>9.0 PENETRATIONS THROUGH CONCRETE FLOORS AND WALLS SHALL BE MADE WITH GALVANIZED PIPE SLEEVES. ALL PENETRATIONS SHALL CONTAIN FIRE STOPPING WITH A FIRE RATING EQUAL TO THAT OF THE AREA BEING PENETRATED.</li> <li>10.0 SPRINKLER PIPING SHALL BE LABELED.</li> <li>11.0 AFTER ALL WORK HAS BEEN COMPLETED, ACCEPTANCE TESTING SHALL BE SCHEDULED THROUGH EH&amp;S, AND SHALL BE WITNESSED BY EH&amp;S AND CITY OF ITHACA REPRESENTATIVES.</li> <li>12.0 HYDROSTATIC TEST SHALL BE PERFORMED AT 200 PSI (OR 50 PSI ABOVE STATIC PRESSURE IF SYSTEM PRESSURE IS ABOVE 150 PSI), FOR A PERIOD OF 2-HOURS. A REPRESENTATIVE OF ENVIRONMENTAL HEALTH AND SAFETY SHALL WITNESS HYDROSTATIC TESTING OF THE NEW PIPING INSTALLATIONS AND ALTERATIONS. THE AUTHORITY HAVING JURISDICTION (ITHACA FIRE DEPARTMENT) REQUIRES THAT ONE OF THEIR REPRESENTATIVES WITNESSES HYDROSTATIC TESTING AND FLUSHING. ADVANCE NOTICE AND SCHEDULING IS REQUIRED THROUGH EH&amp;S.</li> <li>13.0 ANY FIRESTOPPING DISTURBED DURING THE COURSE OF WORK SHALL BE REPAIRED TO MAINTAIN A 2-HOUR FIRE RATING.</li> </ul>	Image: Non-State State St
			PROJECT ADDRESS THACA, NEW YORK 14850 BIG RED BARN ADA RESTROOM & OFFICE RENOVATION
			DATE:MARCH 21, 2024FACILITY:2040DESIGN:TJKDRAWN:TJKFIRE PROTECTION GENERAL NOTES AND SYMBOL LEGENDSFP-001 15921574

			FIRE PRO	TECTION	PIPING	S SCHEE	DULE	
PIPE SERVICE	ABBREVIATION	PIPE SIZE		MATERIAL				FITTINGS
DRY SPRINKLER	FP (DRY)	ALL SIZES	ASTM A 53 TYPE F S	STEEL, SCHEDULE	40 BLACK, G	RADE B	CAST OR MALLEABLE IRON	THREADED OR DU
			SP	RINKLER	SCHEI	DULE		
SPRINKLER TYPE	SERVES	MANF BOD	MODEL BOD (SIN)	RESPONSE	ORIFICE (IN)	K-FACTOR	TEMPERATURE RATING (°F)	CONSTRUCTION
UPRIGHT	101B, 1010	C RELIABLE	F156 (RA3125)	STANDARD	1/2	5.6	155	BRASS

	FIRE FROTEGIUN SUDIVITIAL REGISTRY											
SECTION	DESCRIPTION	MATERIAL	SHOP DRAWINGS	COORD. DRAWINGS	AS-BUILT DRAWINGS	PRODUCT DATA	SCHEDULES	<b>WIRING DIAGRAMS</b>	CALCULATIONS	SAMPLES	STANDARDS	
211316	DRY-PIPE SPRINKLER SYSTEMS	STEEL PIPE & FITTINGS	Х	Х	X	Х			X			
211316		SPRINKLERS	Х	Х	Х	Х			Х			
211316		FIRE PROTECTION VALVES	Х	Х	Х	Х			Х			





FP-101 KEYED DEMOLITION NOTES	LUNINA
1 DISCONNECT SPRINKLER PIPING AND DRAIN VALVE BACK TO POINT OF DISCONNECT SHOWN. RETAIN SPRINKLER DISTRIBUTION PIPING, VALVES, AND FITTINGS.	
FP-101 KEYED RENOVATION NOTES	
<ol> <li>CONNECT SPRINKLER DISTRIBUTION PIPING TO EXISTING DRY SPRINKLER SYSTEM.</li> <li>RAISE EXISTING SPRINKLER PIPING TO COORDINATE WITH NEW MECHANICAL FCU DUCTWORK. PROVIDE DISTRIBUTION PIPING AS REQUIRED TO RE-FEED EXISTING PIPING. NEW SPRINKLER HEADS MUST BE PROVIDED. PIPE RISES TO UPRIGHT SPRINKLERS WILL BE REPLACED WITH NEW, SHORTER PIPING. SPRINKLERS MUST BE WITHIN 12" OF CEILING TO COMPLY WITH NEPA 13 (2016).</li> </ol>	FACILITIES ENGINEERING
<ul> <li>BE WITHIN 12 OF CEILING TO COMPLY WITH NEPA 13 (2016).</li> <li>PROVIDE NEW RELIABLE UPRIGHT SPRINKLER HEADS IN OFFICE 101C AND STORAGE ROOM 101D.</li> <li>EXISTING DRAIN VALVE TO BE REINSTALLED WITH EXISTING DISTRIBUTION PIPING. PROVIDE ACCESS TO DRAIN VALVE TO FACILITATE FUTURE MAINTENANCE ON SPRINKLER SYSTEM.</li> </ul>	WWW.FCS.CORNELL.EDU ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL ENGINEERING
	201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
	WARNING IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE
	NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
	ARCH/ CIVIL: <u>M</u> ELECTRICAL: <u>IT.R</u> MECHANICAL: <del>T.</del>
	TE OF NEW PO SAN DULESHE
	* LICE OBA093 W
	REVISIONS           1         12/15/23         ISSUE FOR DD REVIEW           2         02/16/24         ISSUE FOR 95% REVIEW           3         03/21/24         ISSUE FOR CONSTRUCTION
	0' 2' 4' 8' SCALE: 1/4" = 1'-0"
	PROJECT ADDRESS ITHACA, NEW YORK 14850
	BIG RED BARN ADA RESTROOM
	RENOVATION
	DATE:         MARCH 21, 2024           FACILITY:         2040
	DESIGN: TJK DRAWN: TJK
	FIRE PROTECTION DEMOLITION AND RENOVATION
	FP-101
	15921574

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		X	_						_		FS	FLOOR SINK
x x	X	X									ID	INDIRECT WASTE
XX	X	X									LAV	LAVATORY
x x	X	X									MSB	MOP SINK BASIN
		X						x			NC	NORMALLY CLOSED
		Х						X			NO	NORMALLY OPEN
		Х									NTS	NOT TO SCALE
		Х									OS&	Y OUTSIDE SCREW & YOKE
											PVC	C POLYVINYL CHLORIDE
											RPZ	REDUCED PRESSURE ZONE BFP ASSEMBL
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OR TFE	SEA	T	, <b>Z-</b> F IL	_0L,	SIA	NDAND	FOR	1, DIX		-	WM	WATER METER
SCH	FΓ	)[]]	F 8	<u></u>	SP	FC						
			· — `		-							
		V Sunda View States Sea	V Supported to the second of	V Support of the second of th	POLLO, NIBCO, WATTS VATER SERVICE, 2-PIECE, R TFE SEAT CHEDULE & S	Y         Source       Source         Source       Sour	POLLO, NIBCO, WATTS         VALUE         SAMPLES         SAMPLES         SAMPLES         SAMPLES         STANDARD         MILING         DILLO, NIBCO, WATTS         VATER SERVICE, 2-PIECE, STANDARD         CHEDULE & SPEC	Y         state       state         state       state<	POLLO, NIBCO, WATTS VATER SERVICE, 2-PIECE, STANDARD PORT, BRANINGS VIRTER SERVICE, 2-PIECE, STANDARD PORT, BRANNES VIRTER SERVICE	CHEDULE & SPEC         Sollo, Nibco, WATTS         Value         Value	Productions       Schedults         Schedults       Scholos         Schedults	

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						D.		( <u> </u>				DHW	V DOMESTIC HOT WATER
						اڭ اڭ		이 뛰 [ 문 ] (			SP.	DHW	R DOMESTIC HOT WATER RECIRC
		SECTION	DESCRIPTION		MATERIAL	<u>2</u> 2	A C		5 8 5	5 Ø	S S Z S S		
		220523	GENERAL DUTY VALVES FOR PLUMB PIPING	BALL VALVES									
		220529	HANGERS & SUPPORTS FOR PLUMB PIPING		NGERS AND SUPPORTS								
		220719											
		221110	SAN WASTE AND VENT DIDING (BELOW CRADE					×					/ LAVATORY
		221316	SAN WASTE AND VENT PIPING (BELOW GRADE									MSB	3 MOP SINK BASIN
		224000	PI UMBING FIXTURES	WATER CLOSET	S/ FLUSH VALVES/ SEATS						X	NC	NORMALLY CLOSED
		224000		LAVATORIES/ SI	NKS/ FAUCETS						X	NO	NORMALLY OPEN
		224000		FLOOR DRAINS								NTS	NOT TO SCALE
		224000		CLEANOUTS			>					OS&	Y OUTSIDE SCREW & YOKE
										I		PVC	2 POLYVINYL CHLORIDE
													2 REDUCED PRESSURE ZONE BFP ASSEMB
			PLUMBING PIPING ACC	CESSORIE:	S SCHEDULE							SAN	
												SK	SINK
NOTEO												SS	STAINLESS STEEL
INDIES:	S INSTALLED IN INSULATE	D PIPING SYSTEMS PROVI	DE EXTENDED ΗΔΝΟΙ Ε										
2) PROVIDE V	ALVES WITH UNIONS AT E	ACH PIECE OF EQUIPMENT	ARRANGED TO ALLOW SERVICE, MAINTENANCE	AND EQUIPMENT RE	MOVAL WITHOUT SYSTEM SHUTDOW	WN.							
3) PROVIDE U	INIONS ADJACENT TO VAL	/ES AND AT FINAL EQUIPME	ENT CONNECTIONS.										
TAG	COMPONENT	ACCEPTABLE		RESSURE RATING	SPECIFICATIONS								
		MANUFACTURERS					<u></u> -	• • • • • • • • •					
	BALL VALVE, DCW/DHW				ACCEPTABLE MANUFACTURERS					ם חם אר			A WATER HAMMER ARRESTOR
PV-1	NPS 1/2 - 2 INCH	WAIIS		00 F31G @ 200 F	BODY, 316 SS BALL & STEM. PTFE	E OR TFE S	SEAT	ICE, Z-PIEU				WM	WATER METER
L					,								
				PI	UMBING FIXTURE	SCH		川 F &	SPF	C			

## NOTES:

<ol> <li>1) PROVIE</li> <li>2) PROVIE</li> <li>3) PROVIE</li> <li>4) PROVIE</li> <li>5) NO-HUI</li> <li>6) NO-HUI</li> </ol>	DE P-TRAP WITH ADA, WALL-MOUNT LAVATO DE AMERICAN STANDARD 605B.205 INNSBRO DE AMERICAN STANDARD ULTIMA MANUAL T DE AMERICAN STANDARD 5901.100SS COMM B CONNECTION WITH 5" STRAINER. B CONNECTION, D.C.C.I. W/ POLISHED NICKE	RY. OK SELECTRONIC ELECTR OILET 6047121.002 FLUSH ERCIAL TOILET SEAT. L BRONZE TOP.	RONIC TOUCHLESS VALVE FOR WATE	S LAVATORY FAUCET WITH PK00.WRK 10-YEAR BATTERY PACK. R CLOSET.					
TAG	COMPONENTS	MANUFACTURER	MODEL	DESCRIPTION	MATERIAL	COLD WATER	HOT WATER	WASTE / SANITARY	
SK-1	ADA, WALL-MOUNT LAVATORY	AMERICAN STANDARD	0356.921	LUCERNE WALL-HUNG LAVATORY	VITREOUS CHINA	1/2"	1/2"	2"	
WC-1	ADA, FLOOR-MOUNTED WATER CLOSET	AMERICAN STANDARD	3312.001	HURON UNIVERSAL BOWL WITH EVERCLEAN FLUSH VALVE WATER CLOSET	VITREOUS CHINA	1"	-	4"	
FD-1	FLOOR DRAIN	ZURN	ZN415B	ADJUSTABLE FLOOR DRAIN, ROUND TOP	DURA COAT CAST IRON	-	-	3"	
CO-1	FLOOR CLEANOUT	ZURN	ZN1400-BZ-1	FLOOR CLEANOUT WITH "TYPE B" COVER AND EZ1 TECHNOLOGY	DURA COAT CAST IRON	-	-	3"	

- SPECIFICATIONS: 1) DIELECTRIC FITTINGS: USE FLANGES OR COUPLINGS. UNIONS ARE UNACCEPTABLE. 2) INSTALL SLEEVES AND ESCUTCHEONS FOR PENETRATIONS OF WALLS, CEILING, AND FLOORS. 3) INSTALL PLUMBING SYSTEMS TO FACILITATE SERVICE, MAINTENANCE AND REPAIR OR REPLACEMENT OF COMPONENTS. 4) MAINTAIN INDICATED FIRE RATING OF WALLS, PARITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FM APPROVED FIRESTOP MATERIALS. 5) PROVIDE FIRE FAILED FIRE RATING OF WALLS, PARITIONS, CEILINGS, AND FLOORS AT PIPE PENETRATIONS. SEAL PIPE PENETRATIONS WITH FM APPROVED FIRESTOP MATERIALS. 5) PROVIDE FOR LOOP (2001) FROM THE DUMMENNE PROVIDE PUBLIC SYSTEMS INTO OPERATION UNITIES HAS BEEN INSPECTED. TESTED AND APPROVED BY THE AUTHORITIES HAS
- 6) PROVIDE PIPE LABLES AND DIRECTIONAL ARROWS ON ALL NEW PIPING SYSTEMS. LABELS SHALL BE PRINTED PLASTIC WITH CONTACT-TYPE, PERMANENT ADHESIVE BACKING. 7) INSULATION AND ADHESIVE:
- SHALL HAVE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84. PROVIDE VAPOR RETARDER ON PIPING INSULATION SYSTEMS CARRYING FLUIDS WITH AN OPERATING TEMPERATURE LOWER THAN 60 DEGREES F. TYPE A INSULATION: PRE-FORMED MINERAL FIBERGLASS, ASTM C547 TYPE I, ASTM C1136 FACTORY APPLIED SELF-SEALING ALL SERVICE JACKET. 8) POTABLE WATER SYSTEMS:
- CAP AND SUBJECT DOMESTIC WATER PIPING TO STATIC WATER PRESSURE OF 50 PSIG ABOVE OPERATING PRESSURE, WITHOUT EXCEEDING PRESSURE RATING OF PIPING SYSTEM MATERIALS. ISOLATE TEST SOURCE AND ALLOW TO STAND FOR FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS THAT MUST BE REPAIRED. REPAIR LEAKS AND DEFECTS WITH NEW MATERIALS AND RETEST PIPING UNTIL SATISFACTORY RESULTS ARE OBTAINED. FLUSH PIPING SYSTEM WITH CLEAN, POTABLE WATER UNTIL DIRTY WATER DOES NOT APPEAR AT OUTLETS. FILL SYSTEM WITH WATER/CHLORINE SOLUTION WITH AT LEAST 50 PPM OF CHLORINE. ISOLATE WITH VALVES AND ALLOW TO STAND FOR 24 HOURS. DRAIN TO SANITARY. FLUSH SYSTEM WITH CLEAN, POTABLE WATER UNTIL NO TSP REMAINS IN WATER COMING FROM SYSTEM.

							INSULATI	ON
PIPE SERVICE	ABBREVIATION	PIPE SIZE	MATERIAL	FITTINGS	JOINT	THICKNESS	CONDUCTIVITY	ME/
						(IN)	(BTU-IN/HR-FT2-°F)	
DOMESTIC COLD WATER	DCW	1" AND BELOW	ASTM B88 TYPE L COPPER	ASME B16.22 WROUGHT COPPER	ASTM B32 SOLDER, LEAD FREE	1	0.21-0.27	
DOMESTIC HOT WATER	DHW	1" AND BELOW	ASTM B88 TYPE L COPPER	ASME B16.22 WROUGHT COPPER	ASTM B32 SOLDER, LEAD FREE	1	0.22-0.28	
DOMESTIC HOT WATER RECIR	DHWR	1" AND BELOW	ASTM B88 TYPE L COPPER	ASME B16.22 WROUGHT COPPER	ASTM B32 SOLDER, LEAD FREE	1	0.22-0.28	
				ASTM A74, ASTM A888 CAST IRON NO-HUB	ASTM C1277 NEOPRENE GASKET SS BANDS	NI/A	NI/A	
SANITART, ABOVE GRADE	SAN/VENT	ALL SIZES	ASTMA74, ASTMA000 SERVICE WEIGHT CAST IRON	ASTM A74 CAST IRON BELL & SPIGOT	ASTM C564 BELL & SPIGOT NEOPRENE GASKET	IN/A	IN/A	
SANITARY; BELOW GRADE	SAN / VENT	ALL SIZES	ASTM A74 SERVICE WEIGHT CAST IRON	ASTM A74 CAST IRON BELL & SPIGOT	ASTM C564 BELL & SPIGOT NEOPRENE GASKET	N/A	N/A	

#### PLUMBING PIPING SCHEDULE AND SPECIFICATIONS

5) DO NOT ENCLOSE / COVER PIPING AND DO NOT PUT PLUMBING PIPING SYSTEMS INTO OPERATION UNTIL IT HAS BEEN INSPECTED, TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION.

SUBMIT WATER SAMPLES IN STERILE BOTTLES TO AUTHORITIES HAVING JURISDICTION. REPEAT PROCEDURE IF BIOLOGICAL EXAMINATION SHOWS EVIDENCE OF CONTAMINATION.

	PLUMBING SCOPE OF WORK	UNIDA
/BOLOGY	<ol> <li>1.0 REMOVE WATER CLOSET IN BATHROOM 10021 AND PLUMBING SERVICES IN ORDER TO FACILITATE RENOVATION WORK.</li> <li>2.0 PROVIDE UNDERSLAB SANITARY PIPING TO SERVE NEW PLUMBING FIXTURES IN</li> </ol>	
	BATHROOM 102 AND RE-FEED WATER CLOSET IN BATHROOM 10021. 3.0 REINSTALL (1) WATER CLOSET IN BATHROOM 10021 AND PROVIDE (1) WATER	CHOS D A.D.
	<ul><li>CLOSET AND (1) LAVATORY IN BATHROOM 102.</li><li>4.0 RE-PLUMB WATER CLOSET IN BATHROOM 10021 AND PROVIDE PLUMBING</li></ul>	FACILITIES ENGINEERING
		ARCHITECTURAL, STRUCTURAL,
TIONS	PLUMBING GENERAL NOTES           1.0         DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF	MECHANICAL, AND ELECTRICAL ENGINEERING
	VERIFY ALL DIMENSIONS. IF DIMENSIONS OR CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY REFER THE CONFLICT TO THE ENGINEER.	201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
	2.0 UTILITY SHUTDOWNS: SHUTDOWN OF ANY BUILDING UTILITY SYSTEM SHALL BE COORDINATED WITH THE BUILDING MANAGER. THE CONTRACTOR SHALL BEAR THE COST OF THE UTILITY SHUTDOWN. SCHEDULE WORK TEN DAYS IN ADVANCE AND NOTIFY THE OWNER'S REPRESENTATIVE TO COORDINATE BUILDING FUNCTIONS WITH THE BUILDING COORDINATOR.	VVARINING IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIEIC DESCRIPTION OF THE ALTERATION
	3.0 WORK IS REQUIRED IN VARIOUS PORTIONS OF MULTIPLE FACILITIES TO EXECUTE WORK OF OTHER TRADES (EG ELECTRICAL, MECHANICAL). ALTHOUGH NOT NECESSARILY SHOWN ON DRAWINGS, WORK IS REQUIRED IN THESE AREAS CONSISTING OF REMOVAL / REPLACEMENT OF CEILINGS, WALLS, FINISHES, AND OTHER CONSTRUCTION AS NECESSARY TO PERFORM WORK AND RESTORE THESE SPACES OR AREAS TO ORIGINAL CONDITION.	ARCH/ CIVIL: $M$ ELECTRICAL: $27.R$ MECHANICAL: $77.R$
LY	4.0 ALL PENETRATIONS THROUGH FULL HEIGHT WALLS ARE TO BE FIRESTOPPED IN ACCORDANCE WITH UL STANDARDS. ALL GAPS AND JOINTS AT RATED FLOORS AND WALLS ARE TO BE FIRE AND SMOKE STOPPED. CAPS AND JOINTS INCLUDE (BUT ARE NOT LIMITED TO) TOP OF WALL TO FLOOR OR ROOF DECK, WALL TO BEAMS, AND CONTROL OR EXPANSION JOINTS. FIRESTOPPING INCLUDES BOTH FORM OR PACKING MATERIAL AND THE FILL, VOID OR CAVITY MATERIAL.	TE OF NEW FOR
	<ul> <li>5.0 INSTALL EQUIPMENT TO ENSURE PROPER ACCESS TO CONTROL DEVICES AND WITH SUFFICIENT SPACE TO PERFORM ROUTINE MAINTENANCE AND REPAIR. EQUIPMENT THAT IS NOT INSTALLED WITH THIS REQUIREMENT IN MIND SHALL BE RELOCATED AT NO EXPENSE TO THE UNIVERSITY UNTIL DEFICIENCIES ARE CORRECTED.</li> <li>6.0 ALL SYSTEM TESTING SHALL BE CONDUCTED DRIOD TO INSULATION.</li> </ul>	LICE BAD DROFFECTIONAL DROFFECTIONAL
	FIREPROOFING, AND ENCLOSURE IN SHAFTS. ANY RESTORATION WORK REQUIRED AS A RESULT OF DISTURBING FINISHES OR STRUCTURE IN ORDER TO ACCESS SYSTEMS REQUIRING REPAIR SHALL BE AT NO COST TO THE UNIVERSITY.	REVISIONS
	7.0 SCHEDULE A PRE-INSTALLATION MEETING TO REVIEW FINAL EQUIPMENT/FIXTURE LOCATIONS PRIOR TO ROUGHING-IN. OBTAIN ALL REQUIREMENTS FOR INSTALLATION OF OWNER PROVIDED EQUIPMENT FROM THE OWNER OR DESIGNATED AGENT.	1         12/15/23         ISSUE FOR DD REVIEW           2         02/16/24         ISSUE FOR 95% REVIEW           3         03/21/24         ISSUE FOR CONSTRUCTION
	8.0 CUTTING AND PATCHING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, AND PATCHING TO COMPLETE THE WORK. WHERE EXISTING CONSTRUCTION IS REMOVED, CAUSING AN EXPOSURE OF UNFINISHED AND/OR DAMAGED SURFACES, RESULTING SURFACES SHALL BE ECONSTRUCTED WITH MATERIALS TO MATCH FINISHED AREAS.	
VENT NOTES 1-1/2" 1,2	9.0 TESTING AND BALANCING: THE CONTRACTOR SHALL BALANCE ALL AIR AND WATER SYSTEMS AS INDICATED. SUBMIT RESULTS OF TESTING AND BALANCING ON STANDARD TAB CONTRACTOR'S FORMS TO THE ENGINEER FOR REVIEW. SYSTEMS SHALL BE BALANCED TO WITHIN +/- 10% OF DESIGN VALUES.	
2" 3,4 - 5 - 6	10.0 ANY FIRESTOPPING DISTURBED DURING THE COURSE OF WORK SHALL BE REPAIRED TO MAINTAIN A 2-HOUR FIRE RATING.	
	11.0 PROTECT/ MAINTAIN EXISTING FIRE PROTECTION SYSTEM THROUGHOUT CONSTRUCTION.	
		PROJECT ADDRESS ITHACA, NEW YORK 14850
(°F)         MATERIAL           75         A           100         A           100         A           N/A         N/A           N/A         N/A		BIG RED BARN ADA RESTROOM & OFFICE
		RENOVATION
		DATE: MARCH 21, 2024
		DESIGN: JBF
		PLUMBING
		GENERAL NOTES, SYMBOL LEGENDS, AND SCHEDULES
		P-001
		15921574



P-101 KEYED DEMOLITION NOTES	RAL UNIVE
1         DISCONNECT AND REMOVE WATER CLOSET. RETAIN FOR FUTURE REINSTALLAT           2         DISCONNECT AND REMOVE CLEANOUT AND DEMOLISH SANITARY PIPING BELOW	TION. W
3 DISCONNECT AND REMOVE SANITARY PIPING AS REQUIRED TO CONNECT NEW SANITARY PIPING SERVING NEW WATER CLOSET	4"
4 EXISTING 4"Ø SANITARY DRAINAGE SERVING KITCHEN TO REMAIN. DRAIN PIPIN ROUTED TO EXISTING GREASE TRAP. DO NOT CONNECT SANITARY PIPING FOR	G
BATHROOM TO THIS SYSTEM.           5         DISCONNECT AND REMOVE SANITARY PIPING AND EXISTING HOUSE TRAP DURI RAMP DEMOLITION. EXCAVATE THE AREA AS REQUIRED. PROTECT EXISTING VE AND CLEANOUT FOR BUILDING MAIN SANITARY DURING CONSTRUCTION	FACILITIES ENT ENGINEERING
P-101 KEYED RENOVATION NOTES	WWW.FCS.CORNELL.EDU ARCHITECTURAL, STRUCTURAL,
<ol> <li>PROVIDE SANITARY PIPING BELOW GRADE TO SERVE WATER CLOSET IN BATHROOM 10021 AND 10022.</li> <li>REINSTALL EXISTING WATER CLOSET IN EXISTING LOCATION. CONNECT 4"Ø SA</li> </ol>	CIVIL, ENVIRONMENTAL,     MECHANICAL, AND ELECTRICAL     ENGINEERING     N TO     201 HUMPHREYS SERVICE BLDG
NEW 4"Ø SAN PIPING BELOW GRADE. REFER TO ARCHITECTURAL DRAWINGS FOR CUTTING AND REPAIR FLOOR SLAB.           3         PROVIDE FLOOR-MOUNTED, ADA WATER CLOSET. CONNECT 4"Ø SAN TO NEW 4	DR ITHACA, NEW YORK 14853-3701
FIXTURES IN BATHROOM 10021 IN WALL. REFER TO SECTION 4/P-P101. REFER T ARCHITECTURAL DRAWINGS FOR CUTTING AND REPAIR FLOOR SLAB.	O IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR
4 PROVIDE WALL-HUNG, ADA LAVATORY. CONNECT 1-1/2"Ø SAN TO EXISTING SAN PIPING SERVING EXISTING LAVATORIES IN BATHROOM 10021 INSIDE WALL. SAN PIPING AND TRAP SERVING SINKS MUST COMPLY WITH SECTION 306 OF THE 20 ADA STANDARDS FOR ACCESSIBLE DESIGN REGARDING KNEE CLEARANCES.	<ul> <li>ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX</li> <li>TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE. THE DATE OF SUCH ALTERATION. AND</li> </ul>
CONNECT DCW AND DHW TO EXISTING UTILITIES SERVING LAVS IN BATHROOM 10021 IN WALL. REFER TO SECTION 4/P-P101.	A SPECIFIC DESCRIPTION OF THE ALTERATION.
<ul> <li>GRADE.</li> <li>6 PROVIDE FLOOR DRAIN IN BATHROOM 102. CONNECT TO NEW 4"Ø SAN PIPING</li> </ul>	$= \left[ \begin{array}{c} \text{ARCH/CIVIL:} & \underline{\text{WC}} \\ \text{ELECTRICAL:} & \underline{\text{T.R}} \end{array} \right]$
BELOW GRADE. FLOOR TO BE SLOPED TO DRAIN. REFER TO ARCHITECTURAL DRAWINGS. 7 EXTEND HW RECIRC LOOP TO BATHROOM 102 TO SERVE LAVATORY, HW RECIR	MECHANICAL:
MUST BE CONNECTED TO DHW NO MORE THAN 2'-0" OF PIPE LENGTH AWAY FRO FXITURE PER 2020 NYS ENERGY CODE. REFER TO SECTION 4/P-P101.	OM OF NEW:
<ul> <li>8 CONNECT NEW 4" SANITARY PIPING TO EXISTING SANITARY SYSTEM BELOW GRADE. SLOPE PIPING A MINIMUM OF 1/8" PER 12".</li> <li>9 PROVIDE 4" HOUSE TRAP BELOW GRADE. CHARLOTTE PIPE MODEL # SV 00175 (</li> </ul>	D800
OR EQUAL. PROVIDE CAPS FLUSH WITH PAVEMENT BETWEEN RAMP AND MANH CONNECTED TO HOUSE TRAP.	
	CELES CONTROL OF CONTR
	POFESSIONAL ST
	I         12/15/23         ISSUE FOR DD REVIEW           0         00/0/01         00/01/01         00/01/01
	2     02/16/24     ISSUE FOR 95% REVIEW       3     03/21/24     ISSUE FOR CONSTRUCTION
	0' 1' 2' 4' SCALE: 1/2" = 1'-0" 0' 2' 4' 8' SCALE: 1/4" = 1'-0"
	ITHACA, NEW YORK 14850
	BIG RED BARN ADA RESTROOM & OFFICE RENOVATION
	DATE.         MARCH 21, 2024           FACILITY:         2040
	DESIGN: JBF
	PLUMBING DEMOLITION AND RENOVATION PLANS
	· · · · · · · · · · · · · · · · · · ·

	CONTROL SYMBOLOGY
及	2-WAY CONTROL VALVE, DIGITAL
宓	2-WAY CONTROL VALVE, PNEUMATIC
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3-WAY CONTROL VALVE, DIGITAL
Ŕ	3-WAY CONTROL VALVE, PNEUMATIC
ΔΡ	ADDRESSABLE OUTPUT MODULE (FIRE ALARM INTERFACE)
	AIRFLOW CONTROL VALVE (VENTURI OR VORTEX SHEDDING)
<b>&gt;</b>	AVERAGING SENSOR
$\rightarrow$	BINARY POINT
	BUTTERFLY CONTROL DAMPER
\co27	CARBON DIOXIDE SENSOR
· V	CONDENSATE SENSOR
cs	CURRENT SENSOR
ΔΡ	DEW-POINT SENSOR
ES	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	ELECTRIC TO PNEUMATIC SWITCH
	ELECTRIC TO PNEUMATIC TRANSDUCER
	END SWITCH
FE	FLOW FLEMENT (METER)
	FLOW SENSOR
	HIGH LEVEL SWITCH
	HUMIDSTAT SENSOR
V S V	
Low	
MOD	
	MOTOR
	OPEN/CLOSE
P	
	PRESSURE SENSOR
P	PRESSURE SWITCH
	RELATIVE HUMIDITY SENSOR
	RELAY
69 T	ROOM TEMPERATURE SENSOR WITH ADJUSTABLE
1 ©Ţ	ROOM TEMPERATURE SENSOR WITH OCCUPANCY
• 07	ROOM TEMPERATURE SENSOR WITH ON/OFF SWITCH
•	ROOM TEMPERATURE SENSOR WITH VISUAL DISPLAY
RD	ROTATION DETECTOR
$\nabla$	SINGLE POINT SENSOR
so	SMOKE DETECTOR
SC	SPEED COMMAND
( <sup>5</sup> )	START/STOP
SP	STATIC PRESSURE SENSOR
6	SWITCH
Ūs	TEMPERATURE SENSOR
	TEMPERATURE SENSOR
 ®⊽	TEMPERATURE SENSOR WITH ADJUSTABLE SETPOINT
Ļ	

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Ν	/IECHANICAL SYMBOLOGY	Ģ	GENEF
_1	AIRFLOW		DEMOLISH
	BACKFLOW PREVENTER	"NAME" (E)-	EXISTING
ц	BALANCE VALVE	(E)	
	BALL VALVE		NEW WOR
	BOTTOM PIPE CONNECTION	$\mathbf{\Theta}$	POINT OF
<del></del>	BUTTERFI Y VAI VE		POINT OF
⊣⊢		$\bigcirc$	
<u> </u>			MEC
-1/-		BCU	BLOWER
-0-		CHWR	
$\rightarrow$		CC	CLEAN CC
$\rightarrow$	DUCT AIRFLOW	CO CS	CLEAN OU CLEAN ST
	DUCT DOWN (EXHAUST OR RETURN)	CD EA	CONDENS EXHAUST
	DUCT DOWN (SUPPLY)	EA(G)	EXHAUST
F/SM	FIRE AND SMOKE DAMPER IN DUCT	FD	FIRE DAM
	FIRE DAMPER IN DUCT	GWR GWS	GLYCOL H
	FLANGE CONNECTION	HPR HPS	HIGH PRE
-	FLEX CONNECTOR	HWR HWS	
 ──∥──-≯	FLEXIBLE CONNECTION	LPC	LOW PRES
	FLEXIBLE DUCT	LPS MU	LOW PRES
<u></u>	FLOW METER	MPC MPS	MEDIUM P MEDIUM P
-U- 	FLOW SWITCH	NG	NATURAL
<u> </u>	FUSIBLE LINK VALVE	PCWR	PROCESS
-64-	GLOBE VALVE	HG RL	REFRIGE
		RS RAG	REFRIGER
<u> </u>		SA	SUPPLY A
Ĭŀ		TA	TRANSFE
с <u> </u>		VD	VOLUME L
<u> </u>			0.0
$\neg$	PIPING REDUCER (CONCENTRIC)	AI	
$\Box$	PIPING REDUCER (ECCENTRIC)	AO AV	
<b>P</b>	PRESSURE GAUGE	BI	BINARY IN
1	PRESSURE OR TEMPERATURE PETES PLUG	BV	BINARY VA
	PRESSURE REDUCING VALVE	F.L. N.C.	FAIL LAST
P	PRESSURE SWITCH	N.O. VFD	NORMALL VARIABLE
	RECTANGULAR ELBOW		1
	RECTANGULAR ELBOW WITH TURNING VANES		
≵	RELIEF VALVE		
	SMOKE DAMPER IN DUCT		
	SOLENOID VALVE		
	STANDARD BRANCH DUCT		
	STEAM TRAP		
<u> </u>	STRAINER (DUPLEX)		
	STRAINER WITH BLOWDOWN VALVE AND CAP		
	SUPPLY THROUGH NEXT FLOOR OR ROOF		
	TEMPERATURE WELL		
 	THERMOMETER		
<u> </u>			
Ÿ⊤			
—I)—			
<u> </u>	VACUUM BREAKER		
	VOLUME DAMPER IN DUCT		

GENERAL DRAWING SYMBOLOGY	MECHANICAL SUBMITTAI	REGI	STF	۲Y			
- DEMOLISHED WORK							
			တ္တ				
EXISTING TO REMAIN		VINGS			RAMS	2	
EXISTING WORK TO REMAIN		AVIN SAV	A P	ျပ	50	<u>i</u>	လ
- NEW WORK		A B		; 끸		<u>0</u>	
		HOP DI	S-BUIL	CHED		AMPLE	TANDA
		<u> </u>	<u> </u>	<u> </u>	<u>≤ 0</u>	S S	ώ.
POINT OF DISCONNECTION	230500 COMMON WORK RESULTS FOR HVAC WELDING CERTIFICATES			,	<u> </u>	++	$\rightarrow$
	230513 MOTOR REQUIREMENTS FOR HVAC MOTORS				X	+	
	230523 GENERAL DUTY VALVES FOR HVAC BALL VALVES			; <b></b>		++	
MECHANICAL ABBREVIATIONS	230529 HANGERS & SUPPORTS FOR HVAC STEEL PIPE HANGERS					++	$\rightarrow$
	230529 FASTENERS					++	
VR CHILLED WATER RETURN		X				++	
	230593 TESTING, ADJUSTING, & BALANCING FOR HVAC CERTIFIED TEST REPORT		<b>⊢</b>	++		++	
CLEAN CONDENSATE	230593 EQUIPMENT CALIBRATION			,		++	
	230700 HVAC INSULATION PIPING INSULATION						
CLEAN STEAM				+	v	+	
CONDENSATE DRAIN	230900 INSTRUMENTATION & CONTROL FOR HVAC CONTROLLERS & ENCLOSURE	<u>-5 X</u>		++	^	++	
EXHAUSTAIR	230900 POINTS/ ALARMI LIST			++		++	
3) EXHAUST AIR (GREASE DUCT)	230900 SCHEMATIC CONTROL DIAGR			+		++	
	230900 SEQUENCES OF OPERATION			+		+	
FIRE DAMPER	230900 BILL OF MATERIALS			,++			
R GLYCOL HEATING RETURN	230900 TEMPERATURE SENSORS			+		++	—
	230900 AIRFLOW SENSORS			+		++	
HIGH PRESSURE STEAM RETURN	230900 STATUS INPUTS			++			
HIGH PRESSURE STEAM SUPPLY	230900 ACTUATORS					+	
R HOT WATER HEATING RETURN	230900 CONTROL VALVES						
S HOT WATER HEATING SUPPLY	230900 CONTROL DAMPERS			_ <b></b>			
I OW PRESSURE CONDENSATE				,———			
LOW PRESSURE STEAM	232113 JUINING MATERIALS			,++		+	—
MAKE UP WATER	232113 BALANCING VALVES			,++-		++	
C MEDIUM PRESSURE CONDENSATE	233133 METAL DUCTS RECTANGULAR DUCTWORK			.++		+	
MEDIUM PRESSURE STEAM				, — — —		++	
NATURAL GAS	233300 AIR DUCT ACCESSORIES VOLUME DAMPERS			.++-		++	$\rightarrow$
/R PROCESS CHILLED WATER RETURN	233300 CONTROL DAMPERS			, — — —		++	
VS PROCESS CHILLED WATER SUPPLY				.++		+	$\rightarrow$
REFRIGERANT HOT GAS				, — — —		++	
REFRIGERANT LIQUID	233300 FLEXIBLE DUCTS			.++-	v	++	
REFRIGERANT SUCTION				,++	^	+	$\rightarrow$
B RETURN AIR GRILLE	233713 DIFFUSERS, REGISTERS, AND GRILLES LOUVER FACE DIFFUSERS			.++		+	$\rightarrow$
SUPPLY AIR	233713 OPPOSED-BLADE DAMPER						
SUPPLY AIR DIFFUSER			XV	+++	x	++	
TRANSFER AIR					~		
VOLUME DAMPER							

#### CONTROL ABBREVIATIONS

ANALOG INPUT
ANALOG OUTPUT
ANALOG VALUE
BINARY INPUT
BINARY OUTPUT
BINARY VALUE
FAIL LAST
NORMALLY CLOSED
NORMALLY OPEN
VARIABLE FREQUENCY DRIVE

							MECHANICAL SCOPE OF WORK	UNIVA
			(0)		(0)	1.0	PROVIDE EXHAUST FAN AND DUCTWORK.	
S	<u>s</u>	SNO	EPORT(	ATA	BOND	2.0	PROVIDE FCU TO HEAT AND COOL NEW OFFICE. CONNECT FCU TO EXISTING HYDRONICS SYSTEM. PROVIDE ADEQUATE CONDENSATE DRAINAGE FOR FCU.	
CATION	CATION	STRUCT	TEST R	AINT. D	NTIES 8	3.0	REBALANCE HYDRONIC SYSTEM FOR FCU'S SERVING 101 AND NEW OFFICE.	FACILITIES
QUALIFI	CERTIFI	MFR INS	NSP. &	DPS & N	NARRA	1.0	MECHANICAL GENERAL NOTES DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF	ENGINEERING
	x	X	X	x	>		SYSTEMS AND WORK INCLUDED IN THE CONTRACT. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. IF DIMENSIONS OR CONDITIONS ARE FOUND TO BE IN CONFLICT WITH THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY REFER THE CONFLICT TO THE ENGINEER.	ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL
						2.0	ALL DUCT DIMENSIONS INDICATED ARE IN INCHES, AND ARE INSIDE FREE AND CLEAR DIMENSIONS.	ENGINEERING 201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
X		X X X	X X	X X		3.0	INSTALL EQUIPMENT TO ENSURE PROPER ACCESS TO CONTROL DEVICES AND WITH SUFFICIENT SPACE TO PERFORM ROUTINE MAINTENANCE AND REPAIR. EQUIPMENT THAT IS NOT INSTALLED WITH THIS REQUIREMENT IN MIND SHALL BE RELOCATED AT NO EXPENSE TO THE UNIVERSITY UNTIL DEFICIENCIES ARE CORRECTED.	WARNING IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX
		×				4.0	ALL SYSTEM TESTING SHALL BE CONDUCTED PRIOR TO INSULATION, FIREPROOFING, AND ENCLOSURE IN SHAFTS. ANY RESTORATION WORK REQUIRED AS A RESULT OF DISTURBING FINISHES OR STRUCTURE IN ORDER TO ACCESS SYSTEMS REQUIRING REPAIR SHALL BE AT NO COST TO THE UNIVERSITY.	TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
		X X X X X X X				5.0	CUTTING AND PATCHING: THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, FITTING, AND PATCHING TO COMPLETE THE WORK. WHERE EXISTING CONSTRUCTION IS REMOVED, CAUSING AN EXPOSURE OF UNFINISHED AND/OR DAMAGED SURFACES, RESULTING SURFACES SHALL BE RECONSTRUCTED WITH MATERIALS TO MATCH FINISHED AREAS.	ELECTRICAL: <u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u>
						6.0	TESTING AND BALANCING: THE CONTRACTOR SHALL BALANCE ALL AIR SYSTEMS AS INDICATED. SUBMIT RESULTS OF TESTING AND BALANCING ON STANDARD TAB CONTRACTOR'S FORMS TO THE ENGINEER FOR REVIEW. SYSTEMS SHALL BE BALANCED TO WITHIN +/- 5% OF DESIGN VALUES. FINAL BALANCING SHALL OCCUR AFTER ALL LEAKS IN THE BUILDING ENVELOPE HAVE BEEN IDENTIFIED AND SEALED.	TE OF NEW POP
						7.0	ANY FIRESTOPPING DISTURBED DURING THE COURSE OF WORK SHALL BE REPAIRED TO MAINTAIN A 2-HOUR FIRE RATING.	POFERGION AL
		X	X	X		8.0	PNEUMATIC TERMINATIONS: IF COPPER: DEMO BACK TO MAIN AND PROVIDED SOLDERED END CAP IF POLY: DEMO BACK TO MAIN AND PROVIDE BRASS PLUG	
		X	Х	X			DO NOT USE SHEETMETAL SCREW OR BEND OVER END OF COPPER TUBE.	REVISIONS           1         12/15/23         ISSUE FOR DD REVIEW           2         02/16/24         ISSUE FOR 95% REVIEW
								PROJECT ADDRESS
								II HACA, NEW YORK 14850
								BIG RED BARN ADA RESTROOM & OFFICE RENOVATION
								DATE: MARCH 21, 2024
								FACILITY: 2040 DESIGN: JBF
								DRAWN: TJK
								MECHANICAL GENERAL NOTES AND SYMBOL LEGENDS
								M-001
								15921574 <i>)</i>





#### NOTES:

- 1) PROVIDE EC MOTOR. 2) PROVIDE WITH MANUFACTURER'S 20 NON-FUSED SERVICE INTEGRAL DISCONNECT.
- 3) PROVIDE WITH MANUFACTURER'S CONDENSATE OVERFLOW SWITCH. 4) PROVIDE WITH MANUFACTURER'S i-Vu INTEGRATED BACNET CONTROLS.
- 5) FACTORY PROVIDED VALVES, PROVIDE BELIMO ACTUATOR FOR FIELD INSTALLATION.

6) FA	CTORY PROVID	DED THERMOSTAT	CONTROL PACKAGE																													
					DOW/							COOLING	6									HEATIN	١G						ELECTRICA			
TAG	MANUFACTU	RER MODEL NO.	CONFIGURATION	FINISH	(COOLING / HEATING)	FAN SPEED	SENSIBLE LOAD (MBH)	TOTAL LOAD (MBH)	CFM	GPM	FLUID TYPE	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	EWT (°F)	LWT (°F)	WPD (FT)	TOTAL LOAD (MBH)	GPM	FLUID TYPE	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	WPD (FT)	VOLT	PH	HZ MOTOR	LA UNIT M	CA MFS	NOTES
FCU-1	CARRIER	42VFD-04	FLOOR MTD	CORNELL RED	3/2	HIGH	5.3	6.4	370	1.4	WATER	77.0	64.0	57.8	56.2	47.0	59.0	5.9	8.3	1.0	WATER	68.0	85.5	130.0	105.0	1.4	208	1	60 1	1.25	15	1-6

## CONTROL VALVE SCHEDULE AND SPECIFICATIONS

#### SPECS:

- 1) ACCEPTABLE MANUFACTURERS: BELIMO, VSI 2) ELECTRIC INPUT: 4-20mA OR 0-10VDC
- 3) 2-WAY VALVES: EQUAL PERCENTAGE FLOW CHARACTERISTIC
- 7) CONTROL WIRING SHALL BE UNSPLICED FROM THE CONTROLLER TO THE SENSOR OR DEVICE.
   8) CONTROL WIRING SHALL NOT BE ROUTED IN THE SAME RACEWAY AS POWER WIRING.

9) CONTRO	DL WIRING SHA	ALL BE COLOR COD	DED AND LABELED AT AL	L POINTS OF TERMINATION.							
		BASIS OF DE	SIGN		VALVE		CAPACITY	VALVE		MAX PD	
TAG	MANF	VALVE MODEL	ACTUATOR MODEL	SERVICE	TYPE	CONTROL	(GPM)	SIZE (IN)	CV	(PSIG)	FAIL POS
CV-1	BELIMO	CCV-B209	TFX24 US	FCU-1 HOT WATER	2-WAY	MOD	1.0	1/2	0.58	3	F.L.
CV-2	BELIMO	CCV-B209	TFX24 US	FCU-1 CHILLED WATER WATER	2-WAY	MOD	1.4	1/2	0.81	3	N.C.

SPECS: 1) ACCE 2) FINISH	PTABLE MANUF H: WHITE, UNLES	ACTURERS: A
NOTES: 1) FLAT	BLACK FINISH.	
		BASIS C
TAG #	SERVICE	MANF
EG-1	EXHAUST	TITUS
RG-1	RETURN	TITUS

## DUCT SCHEDULE AND SPECIFICATIONS

SG-1 SUPPLY TITUS

#### SPECS

- ALL DUCTWORK AND ACCESSORIES SHALL BE FABRICATED AND INSTALLED IN COMPLIANCE WITH THE LATEST ISSUE OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE.
   CONSTRUCT TEES, BENDS, AND ELBOWS WITH RADIUS OF NOT LESS THAN 1.0 TIMES THE WIDTH OF DUCT ON CENTER LINES. WHERE RECTANGULAR ELBOWS ARE USED, PROVIDE AIR FOIL TYPE TURNING VANES.
- INCREASE DUCT SIZES GRADUALLY, AND IN COMPLIANCE WITH FIGURE 4-7 OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. BRANCH CONNECTIONS SHALL BE MADE WITH A 45 DEGREE ENTRY. STRAIGHT TEES ARE NOT ACCEPTABLE.
- SEALANTS AND GASKETS: SURFACE BURNING CHARACTERISTICS SHALL HAVE A MAXIMUM FLAME-SPREAD INDEX OF 25, AND MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED TO UL 723. ALL MANUAL BALANCING DAMPERS SHALL BE PROVIDED WITH LOCKING HAND QUADRANT. CONNECT DIFFUSERS TO SUPPLY DUCTS WITH MAXIMUM OF 36-INCHES OF FLEXIBLE DUCT CLAMPED OR STRAPPED IN PLACE.
- ) INSTALL VOLUME DAMPERS AT POINTS ON SUPPLY, RETURN, AND EXHAUST SYSTEMS WHERE BRANCHES EXTEND FROM LARGER DUCTS. 0) REMOVE SURFACE CONTAMINANTS AND DEPOSITS FROM DUCTWORK AND EQUIPMENT PRIOR TO TESTING AND BALANCING.
- 1) ALL INSULATION AND ADHESIVE SHALL HAVE A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84. TYPE A INSULATION: MINERAL FIBERGLASS BLANKET, ASTM C553 TYPE I, ASTM C1136 TYPE I FACTORY APPLIED FSK JACKET, K-VALUE BETWEEN 0.22 0.29 BTU-IN/HR-FT<sup>2</sup>-°F @ 75 °F, 0.75 PCF
- TYPE B INSULATION: ACOUSTICAL DUCT LAGGING, STC 29 2) PAINT DUCTWORK TO MATCH EXISTING WHERE EXPOSED.

					LEAKAG	E CLASS				IN	SULATION		
			PRESSURE	SEAL					MIN			VAPOR	DUCT
SYSTEM	LOCATION	SERVICE	CLASS	CLASS	RECT	ROUND	DUCT MATERIAL	LINING	R-VALUE	MATERIAL	FIELD JACKET	RETARDER	FINISH
EXHAUST	CONCEALED	MAIN CONNECTION - VAV/AIR VALVE INLET	4" POS	А	6	3	G90 GALVANIZED	NONE	N/A	N/A	N/A	N/A	PAINT
SUPPLY AIR	CONCEALED	FAN COIL DISCHARGE - SUPPLY OUTLET	1" POS	А	6	3	G90 GALVANIZED	NONE	R-6	А	NONE	YES	NONE
RETURN AIR	CONCELED	FAN COIL RETURN	1" NEG	А	6	3	G90 GALVANIZED	YES	R-6	А	NONE	YES	NONE
EXHAUST	CONCEALED	EXHAUST FAN DISCHARGE	4" NEG	А	6	3	316 STAINLESS STEEL, WELDED	NONE	N/A	N/A	N/A	N/A	PAINT

## EXHAUST FAN SCHEDULE

SPECS:

- 1) ACCEPTABLE MANUFACTURERS: GREENHECK, LOREN COOK, PENN / BARRY.
- 2) TYPE: CEILING MOUNTED, DIRECT DRIVE, CENTRIFUGAL, WITH INTEGRAL FACE GRILLE. 3) FAN SHALL BEAR THE AMCA CERTIFIED RATINGS SEAL FOR SOUND AND AIR PERFORMANCE.
- 4) FAN SHALL BE LISTED BY UNDERWRITERS LABORATORIES UL 705 OR UL 507.
- 5) WHEEL: NON-OVERLOADING, (BACKWARD / FORWARD) CURVED CENTRIFUGAL, STATICALLY AND DYNAMICALLY BALANCED IN ACCORDANCE WITH AMCA 205-05. 6) MOTOR: [1 HP AND BELOW - PSC (PERMANENT SPLIT CAPACITOR MOTORS) OR ECM] OPEN DRIP PROOF. PERMANENTLY SEALED LUBRICATED BEARINGS, IMPEDANCE, OR THERMAL OVERLOAD PROTECTION, ISOLATION MOUNTED, DISCONNECT PLUG.
- 7) INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  8) ACCESSORIES: IPF05 SPEED CONTROL

	BASIS OF I	DESIGN		SEDVICE	TVDE	AIRFLOW	ESP	DRIVE			ELEC	CTRICAL			NOTES
TAG #	MAKE	MODEL	LOCATION	SERVICE		(CFM)	(IN WC)	(BELT / DIRECT)	MAXING	V / PH / Hz	HP	RPM	SPEED CONTROL		NOTES
EF-1	FANTECH	FG 6	BR 10021 (ABOVE CEILING)	EXHAUST	CENTRIFUGAL INLINE	190	0.2	DIRECT	40	120 / 1 / 60	0.1	2700	YES	7.1	

#### FAN COIL SCHEDULE (4 PIPE)

## 4) CONSTRUCTION - BELIMO: CHARACTERIZING DISK, FORGED BRASS, NICKEL PLATED BODY, STAINLESS STEEL BALL AND STEM, FIBERGLASS REINFORCED PTFE SEAT 5) CONTROL WIRING IN MECHANICAL EQUIPMENT ROOMS, NON-ACCESSIBLE CEILINGS, AND VERTICAL CHASES SHALL BE INSTALLED IN ELECTROMETALLIC TUBING WITH COMPRESSION FITTINGS. 6) CONTROL WIRING INSTALLED ABOVE ACCESSIBLE CEILING SPACES SHALL BE PLENUM TYPE, NOT INSTALLED IN CONDUIT, BUT NEATLY RUN WITH GENEROUS USE OF RINGS OR TIES.

#### DIFFUSER/GRILLE SCHEDULE

ANEMOSTAT, CARNES, KRUEGER, PRICE, TITUS HERWISE

DF	- DESIGN		NECK SIZE				
	MODEL	TYPE	WXH OR DIA.	FACE SIZE	MATERIAL	MOUNTING	NOTES
	350FS	OPPOSED-BLADE	6"	9"x7"	ALUMINUM	CEILING	-
	350RL	SINGLE DEFLECT	24"x12"	25"x13"	ALUMINUM	SIDEWALL	-
	300RL	DOUBLE DEFLECT	36"x8"	36"x9"	ALUMINUM	SIDEWALL	-

	ED A.D.
	FACILITIES
	ENGINEERING www.fcs.cornell.edu
	ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL
	ENGINEERING 201 HUMPHREYS SERVICE BLDG ITHACA. NEW YORK 14853-3701
7	WARNING
	IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY
	WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE THE DATE OF SUCH ALTERATION AND
-	A SPECIFIC DESCRIPTION OF THE ALTERATION.
	ELECTRICAL: $\mathcal{IT}_{\mathcal{R}}$
	MECHANICAL:
	TE OF NEW P
	× ~ AULESHELF
	TICE REAL
	BOFFECTION ALL
	REVISIONS           1         02/16/24         ISSUE FOR 95% REVIEW           2         03/21/24         ISSUE FOR CONSTRUCTION
_	
5	
	PROJECT ADDRESS
	TIHACA, NEW YORK 14850
	BIG RED BARN
	ADA RESTROOM
	RENOVATION
	DATE: MARCH 21, 2024
	FACILITY: 2040
	DESIGN: JBF DRAWN: TJK
	MECHANICAL
	M-501
	15921574
	· · · · · · /

EL	ECTRICAL ABBREVIATIONS
AC	AIR CONDITIONER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT INTERRUPTER
AMM	ADDRESSABLE MONITOR MODULE
AOM	ADDRESSABLE OUTPUT MODULE
ARB	AUXILIARY RELAY BOARD
ATS	AUTOMATIC TRANSFER SWITCH
В	BASEBOARD
BKR	BREAKER
С	CONDUIT
CD	CANDELA
CKT	CIRCUIT
CR	CONTROL RELAY
EC	ELECTRICAL CONTRACTOR
EMT	ELECTRICAL METALLIC TUBING
EPO	EMERGENCY POWER OFF STATION

EL	ECTRICAL ABBREVIATIONS
FAA	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FSD	FIRE SMOKE DAMPER
GAA	GENERATOR ALARM ANNUNCIATOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HP	HORSEPOWER
KW	KILOWATT
LC	LIGHTING CONTACTOR
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUG ONLY
MTS	MANUAL TRANSFER SWITCH
NAC	NOTIFICATION APPLIANCE CIRCUIT
NIC	NOT IN CONTRACT
OE	OVERHEAD ELECTRIC

## SUBMITTAL SCHEDULE

SECTION	TITLE	REQUIRED
260000	ELECTRICAL GENERAL REQUIREMENTS	PRODUCT DATA, MANUFACTURERS INSTRUCTIONS, O&M
260533	RACEWAY & BOXES FOR ELECTRICAL	PRODUCT DATA, MANUFACTURERS INSTRUCTIONS, O&M
260923	LIGHTING CONTROL DEVICES	PRODUCT DATA, MANUFACTURERS INSTRUCTIONS, O&M
262726	WIRING DEVICES	PRODUCT DATA, MANUFACTURERS INSTRUCTIONS, O&M
265000	LIGHTING	PRODUCT DATA, MANUFACTURERS INSTRUCTIONS, O&M
271116	COMM SYS COMPONENTS	PRODUCT DATA, MANUFACTURERS INSTRUCTIONS, O&M

## LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	SIZE	FINISH	MANUFACTURER	CATALOG NO.	VOLTAGE	WATTAGE	LAMP	LUMENS	CCT	DRIVER	COUNT	NOTES
A1	LINEAR LED DIRECT	PENDANT	4"X4.75"X48"	BLACK	FINELITE	HP4-P-D-4'-V-835-F-120-SC-FC-10%-FA50-FE-FB	120V	37	LED	3705	3500K	0-10V 10%	1	
												DIMMING		
A2	LINEAR LED DIRECT	PENDANT	4"X4.75"X96"	BLACK	FINELITE	HP4-P-D-8'-V-835-F-120-SC-FC-10%-FA50-FE-FB	120V	75	LED	7410	3500K	0-10V 10%	1	
												DIMMING		
B1	LINEAR LED DIRECT	PENDANT	3"x3"x48"	BLACK	COLUMBIA	MPS4-35-XW-FW-ED-U	120V	20	LED	2509	3500K	0-10V 10%	2	
												DIMMING		



#### ELECTRICAL ABBREVIATIONS

PC	PHOTOCELL
PM	PLUGMOLD
PP	POWER PANEL
PVC	POLYVINYL CHLORIDE CONDUIT
RE	RELOCATE EXISTING
RGS	RIGID GALVANIZED STEEL CONDUIT
SR	SURFACE RACEWAY
ST	SHUNT TRIP
ТМ	THERMAL MAGNETIC
TR	TRIM/CASEWORK/WAINSCOTT
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UE	UNDERGROUND ELECTRIC
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPS
WP	WATERPROOF

	LIGHTING LEGEND			
	LIGHT POLE WITH LED LUMINAIRES, REFER TO PLANS FOR NUMBER AND CONFIGURATION OF HEADS			
	1'x2' LUMINAIRE			
	1'x4' LUMINAIRE			
	2'x4' LUMINAIRE			
0	CEILING MOUNTED LUMINAIRE			
• <b></b> •	EM LIGHTING BATTERY UNIT			
$\bigotimes$	COMBO EXIT SIGN/EM LIGHTING BATTERY UNIT			
Š	SINGLE FACE, WALL MOUNT EXIT SIGN			
- Č	DOUBLE FACE, WALL MOUNT EXIT SIGN			
$\overline{\bigotimes}$	SINGLE FACE, CEILING MOUNT EXIT SIGN			
	DOUBLE FACE, CEILING MOUNT EXIT SIGN			
(os)	WIRELESS OCCUPANCY SENSOR			
(DS)	WIRELESS DAYLIGHT SENSOR			
\$	LIGHT SWITCH: 3 = 3-WAY SWITCH 4 = 4-WAY SWITCH D = DIMMER SWITCH O = WALL SWITCH OCCUPANCY SENSOR V = WALL SWITCH OCCUPANCY SENSOR W = WIRELESS SWITCH S = WIRELESS SCENE SWITCH			
EM	EMERGENCY LIGHT FIXTURE			



## 1 MANUAL ON VACANCY SENSOR CONTROL W/ FULL DIMMING NOT TO SCALE

	EXISTING TO REMAIN			
	DEMOLITION / TO BE RELOCA			
	TO BE PROVIDED			
	UNDERGROUND ELECTRIC			
—_UL	UNDERGROUND LIGHTING			
—UC—	UNDERGROUND TELCO			
—OE—	OVERHEAD ELECTRIC			
E	ELECTRICAL LEG			
	PANELBOARD			
J	JUNCTION BOX			
φ	DUPLEX RECEPTACLE: B = INSTALLED IN BASEBOARD TR = INSTALLED IN WOOD TRIM/ CASEWOR SR = SURFACE RACEWAY WP = WEATHERPROOF AC = AIR CONDITIONER EM = EMERGENCY			
P	DUPLEX RECEPTACLE WITH (			
P	DUPLEX RECEPTACLE WITH A			
ΦΦ	DOUBLE DUPLEX RECEPTACL			
\	QUAD RECEPTACLE			
$\Phi^{5-30R}$	SPECIAL RECEPTACLE			
ý	MOTOR			
$\boxtimes$	MOTOR STARTER			
P-1A 12	HOMERUN TO PANEL P-1A, C FROM 20A - 1P BREAKER IS IN NOTED OTHERWISE. RUN GF FOR ALL CIRCUITS. PROVIDE CIRCUIT.			
	HARDWIRED EQUIPMENT CO			
	EMERGENCY POWER OFF (EI			
٢	GROUND ROD ELECTRODE			
	SAFETY SWITCH (NON-FUSE			
$\Box$	SAFETY SWITCH (FUSED)			
CR	CARD READER			

## IT/ COMMUNICATIONS

X ▽	DATA RECEPTACLE X = NUMBER OF CABLES TO
$\bigtriangledown$	WIRELESS ACCESS POINT O
WLS ▽	WIRELESS ACCESS POINT O

## MOUNTING HEIG

CARD READER	48"	TOP OF
LIGHT SWITCH	48"	TOP OF
RECEPTACLE	18"	TOP OF
DATA OUTLET	18"	TOP OF
TV OUTLET	84"	TOP OF
PHONE OUTLET	48"	TOP OF
SAFETY SWITCH	60"	CENTER
MOTOR STARTER	60"	CENTER
PANELBOARD	72"	TOP OF
MANUAL PULL STATION	48"	OPERA
NOTIFICATION APPLIANCE	80"	BOTTO
DOOR HOLD OPEN		COORD
EM BATTERY UNIT	96"	BOTTO
EM REMOTE UNIT	102"	BOTTO
EXIT SIGN	96"	BOTTO

## FIRE ALARM LEG

FACP	FIRE ALARM CONTROL PANEL
BATT	BATTERY CABINET
MUX	MUXPAD
FAA	REMOTE ANNUNCIATOR
NAC	NAC PANEL
F	MANUAL PULL STATION
Ś	SMOKE DETECTOR: D = DUCT SMOKE DETECTOR R = RELAY BASE BR = BEAM RECEIVER BT = BEAM TRANSMITTER SB = SOUNDER BASE
Œ×	HEAT DETECTOR: F = FIXED TEMPERATURE R = RATE OF RISE R/F = COMBINATION RISE/FIXED TEMPERAT
	CARBON MONOXIDE DETECT
FS	WATER FLOW SWITCH
TS	TAMPER SWITCH
AM	ADDRESSABLE MODULE
	SUPPRESSION SYSTEM
▼ XXcd F C	COMBO A/V NOTIFICATION AP XXcd = CANDELA C = CEILING
▼ XXcd S <sub>C</sub>	VISUAL NOTIFICATION APPLIA XXcd = CANDELA C = CEILING
∇ F	AUDIBLE NOTIFICATION APPL
DH	MAGNETIC DOOR HOLDER

		_		
			ELECTRICAL SCOPE OF WORK	UNIDA
LINETYPES LEGEND		1.0	PROVIDE ELECTRICAL DESIGN FOR RESTROOM SPACE MODIFICATION INCLUDING PROVIDING POWER TO ANY EQUIPMENT (NEW ADA SINK WASH BASIN. WATER	
EXISTING				
DEMOLITIO	ON / TO BE RELOCATED	1.0	GENERAL ELECTRICAL NOTES	
		1.0	DIAGRAMMATIC. IT IS NOT THE INTENT TO SHOW EXACT OR MOST EFFICIENT ROUTING. VERIFY ALL DIMENSIONS AND FIFLD CONDITIONS ON SITE ANY	FACILITIES
			CONFLICTS BETWEEN CONSTRUCTION DOCUMENTS AND FIELD CONDITIONS SHALL BE BROUGHT TO CORNELL'S PROJECT MANAGER FOR RESOLUTION BEFORE WORK	ENGINEERING
			PROCEEDS.	WWW.FCS.CORNELL.EDU
- OVERHEA	DELECTRIC	2.0	ASSURE PUBLIC AND WORKER SAFETY AT ALL TIMES. PROTECT ADJOINING AREAS FROM DAMAGE AND DUST. REMOVE ALL DEBRIS FROM SITE AND DISPOSE OF	ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL,
			WASTE MATERIAL IN A SAFE MANNER. KEEP THE PREMISES FREE OF DEBRIS FROM THE EXECUTION OF WORK. DELIVER A FINAL PRODUCT THAT IS CLEAN AND	
ELECTI	RICAL LEGEND		OPERABLE.	ITHACA, NEW YORK 14853-3701
PANELBO	ARD	3.0	FIRE STOP ELECTRICAL PENETRATIONS THROUGH FIRE RATED WALLS AND/OR FLOORS WITH MATERIAL EQUAL IN RATING TO THE CONSTRUCTION OF THE	WARNING
JUNCTION	I BOX		MATERIAL PENETRATED.	IT IS A VIOLATION OF NEW YORK STATE LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR
		4.0	WORK SHALL BE COMPLETED AS SPECIFIED AND INDICATED ON CONTRACT DOCUMENTS. ANY SUGGESTED ALTERNATE MANUFACTURER OR METHOD OF	ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX
TR = INSTALLE SR = SURFACE WP = WEATHE	E IN WOOD TRIM/ CASEWORK/ WAINSCOTT E RACEWAY ERPROOF		PRIOR TO ORDERING ANY MATERIALS OR COMMENCING EXECUTION OF WORK.	TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND
AC = AIR CONE EM = EMERGEI	DITIONER NCY	5.0	GROUNDING SHALL BE IN STRICT ACCORDANCE WITH NEC ARTICLE 250. PROVIDE	A SPECIFIC DESURIPTION OF THE ALTERATION.
DUPLEX R	RECEPTACLE WITH GFCI PROTECTION		EQUIPMENT GROUND CONDUCTOR WITH EACH BRANCH CIRCUIT INDICATED ON CONTRACT DOCUMENTS. EQUIPMENT GROUND CONDUCTOR SHALL BE ROUTED WITH ASSOCIATED PHASE CONDUCTORS	ARCH/ CIVIL:
DUPLEX R				ELECTRICAL: <u>27.K</u>
		6.0	ALL NEW DEVICE FACEPLATES WITH SOURCE AND CIRCUIT NUMBER. PROVIDE	
			INVENTORY NUMBERS. COORDINATE EQUIPMENT INVENTORY NUMBERS WITH CORNELL UNIVERSITY'S MECHANICAL SHOP 255-8667	S OF NEW
				AND AULESHADD
MOTOR S	TARTER	7.0	CIRCUITS RATED 20-AMP, 120 VOLT SHALL CONTAIN SEPARATE NEUTRAL CONDUCTORS.	
HOMERUN	N TO PANEL P-1A, CIRCUIT #12. FED	8.0	CONDUCTORS SHALL BE A MINIMUM OF 12AWG, STRANDED COPPER, 600VAC, 90	EL EL EL
FROM 20A NOTED O	A - 1P BREAKER IS INTENDED UNLESS THERWISE. RUN GREEN WIRE GROUND		DEGREE G, TYPE THHN/THWN-2 FOR DRY AREAS AND XHHW/THWN-2 FOR WET AREAS.	
FOR ALL C	CIRCUITS. PROVIDE ONE GROUND PER	9.0	CONDUITS SHALL BE A MINIMUM OF 3/4 INCHES DIAMETER. CONDUITS SHALL BE	PROFESSION ALT
HARDWIR	ED EQUIPMENT CONNECTION		ELECTRICAL METALLIC TUBING (EMT) AND SURFACE MOUNTED UNLESS NOTED OTHERWISE.	
EMERGEN	NCY POWER OFF (EPO)	10.0	AIC RATING OF NEW CIRCUIT BREAKERS SHALL MATCH RATING OF RESPECTIVE	
GROUND	ROD ELECTRODE		PANELBOARD. SIZE AS INDICATED.	1         12/15/23         ISSUE FOR DD REVIEW           2         02/16/24         ISSUE FOR 95% CD REVIEW           6         03/21/24         ISSUE FOR CONSTRUCTION
SAFETY S	WITCH (NON-FUSED)	11.0	PROVIDE PULL STRING THROUGH NEW CONDUIT AND BOXES. PROVIDE SUPPORT HANGERS FOR CONDUIT AS NEEDED.	
SAFETY SWITCH (FUSED)		12 0	INSTALL RACEWAY SYSTEMS ENSURING PROPER ACCESS TO EQUIPMENT AND	
CARD READER		12.0	DEVICES AND WITH SUFFICIENT SPACE TO PERFORM ROUTINE MAINTENANCE AND REPAIR. RACEWAYS THAT ARE NOT INSTALLED WITH THIS REQUIREMENT IN MIND	
			SHALL BE RELOCATED AT NO EXPENSE TO THE UNIVERSITY UNTIL DEFICIENCIES ARE CORRECTED.	
	NICATIONS LEGEND			
DATA REC X = NUMBI	CEPTACLE ER OF CABLES TO BE PROVIDED	G	ENERAL ELECTRICAL DEMOLITION NOTES	
WIRELESS ACCESS POINT OUTLET- CEILING MTD.		1.0	ASSOCIATED ANCHORS, SUPPORTS, STRAPS, BOXES, FITTINGS, AND OTHER	
WIRELESS ACCESS POINT OUTLET- WALL MTD.			REMOVE ASSOCIATED BRANCH CIRCUITRY TO SOURCE, UNLESS NOTED OTHERWISE.	
		20		
MOUN	TING HEIGHTS	2.0	WORK SHALL BE REUSED WHERE POSSIBLE.	
DER CH	48"         TOP OF BOX           48"         TOP OF BOX	3.0	PROVIDE JUNCTION BOXES, RACEWAYS, AND WIRING TO MODIFY/EXTEND EXISTING	
_E FT	18" TOP OF BOX		TO BE DEMOLISHED.	
	84" TOP OF BOX	4.0	CUT DEMOLISHED CONDUITS INSTALLED THRU WALLS AND FLOORS FLUSH WITH	
ITCH	60" CENTERLINE OF HANDLE		RATED SURFACE). PATCH AND PAINT SURFACES IN EXPOSED AREAS TO MATCH SURROUNDING MATERIALS, FINISHES, AND COLORS.	
RTER RD	60"     CENTERLINE OF HANDLE       72"     TOP OF PANELBOARD	5.0		
ILL STATION ON APPLIANCE	48"     OPERABLE HANDLE       80"     BOTTOM OF LENS	5.0	DEMOLITION NOT SPECIFIED TO BE INFILLED.	
O OPEN Y UNIT	COORDINATE IN FIELD           96"         BOTTOM OF UNIT	6.0	EXISTING EQUIPMENT SHOWN TO REMAIN SHALL BE PROTECTED DURING	
EUNIT	102"BOTTOM OF UNIT96"BOTTOM OF UNIT			
			FIRE ALARM GENERAL NOTES	
FIRE A	LARM LEGEND	1.0	COMPLY WITH THE AUTHORITY HAVING JURISDICTION (AHJ), NFPA 72, THE NATIONAL ELECTRICAL CODE, THE AMERICANS WITH DISABILITIES ACT (ADA) AND	
FIRE ALAR	RM CONTROL PANEL	2.0	ALL STATE, LOCAL AND MUNICIPAL ORDINANCES. REFER TO FIRE ALARM PLANS FOR QUANTITIES AND LOCATIONS OF FIRE ALARM	ITHACA, NEW YORK 14850
BATTERY	CABINET	3.0	EQUIPMENT. IDENTIFY FIRE ALARM WIRING BY SYSTEM AND FUNCTION AT BOTH ENDS AND	
MUXPAD			WITHIN CABINETS AND JUNCTION BOXES WITH PREMARKED, SELF-ADHESIVE, WRAPAROUND TYPE LABELS. WIRE DESIGNATIONS SHALL CORRESPOND WITH POINT-TO-POINT WIRING DIACRAMS	BIG RED RARN
	ANNUNCIATOR	4.0	FIRE ALARM EQUIPMENT SHALL BE UL LISTED COMPATIBLE WITH THE EXISTING	ADA RESTROOM
		5.0	SYNCHRONIZE ALL VISUAL NOTIFICATION APPLIANCES.	& OFFICE
		6.0	PROVIDE ALL EQUIPMENT, ACCESSORIES AND PROGRAMMING REQUIRED TO MODIFY THE EXISTING FIRE ALARM SYSTEM.	RENOVATION
SMOKE DETECTOR: D = DUCT SMOKE DETECTOR B = BELAY BASE		7.0	FIRE ALARM CABLING SHALL BE INSTALLED IN MINIMUM 3/4" EMT CONDUIT. REUSE EXSITNG CONDUIT WHERE POSSIBLE.	
BR = BEAM REG BT = BEAM TRA SB = SOUNDER	CEIVER ANSMITTER R BASE		FIRE ALARM TESTING NOTES	
HEAT DET	ECTOR:	1.0.	TEST ALL FIRE ALARM WIRING FOR CONTINUITY AND VERIFY THAT ALL FIRE ALARM WIRING TESTS FREE FROM GROUNDS BETWEEN CONDUCTORS	DATE: MARCH 21, 2024
F = FIXED TEMPERATURE R = RATE OF RISE R/F = COMBINATION RISE/FIXED TEMPERATURE		2.0	UPON COMPLETION OF FIRE ALARM WORK IN THE BUILDING, PERFORM A REACCEPTANCE TEST PER NEPA 72 WITH CORNELL EHRS REDDESENTATIVE	FACILITY: 2040
CARBON MONOXIDE DETECTOR			VERIFY CORRECT RECEIPT OF ALARM, SUPERVISORY, AND TROUBLE SIGNALS (INPUTS); OPERATION OF EVACUATION SIGNALS AND AUXILIARY FUNCTIONS	DESIGN: M. SCHOLENO
WATER FLOW SWITCH			(OUTPUTS); CIRCUIT SUPERVISION, INCLUDING DETECTION OF OPEN CIRCUITS AND GROUND FAULTS; AND POWER SUPPLY SUPERVISION FOR DETECTION OF LOSS OF	DRAWN: MPS
TAMPER SWITCH		3.0	AC POWER AND DISCONNECTION OF SECONDARY BATTERIES. FIRE ALARM SYSTEM SHALL BE COMPLETELY OPERABLE AT ALL TIMES DURING	
ADDRESSABLE MODULE			CONSTRUCTION. IN THE EVENT A ZONE MUST BE DEACTIVATED, COORDINATE SHUTDOWN IN ADVANCE WITH THE OWNER AND AHJ AND PROVIDE FIRE WATCH IN	
SUPPRESSION SYSTEM			ALL PUBLIC SPACES OF THE AFFECTED ZONE(S) AT ALL TIMES THE BUILDING IS OCCUPIED.	GENERAL NOTES
cd COMBO A/V NOTIFICATION APPLIANCE:		4.0 5.0	FIRE ALARM SYSTEM SHALL BE FULLY OPERATIONAL AT THE END OF EACH DAY. THROUGH WALL PENETRATIONS FOR REMOVED CONDUITS AND/OR THE	
			INSTALLATION OF PROPOSED CONDUITS SHALL BE FIRE STOPPED TO MAINTAIN THE FIRE RATING OF WALL ASSEMBLY.	
Cd VISUAL NUTIFICATION APPLIANCE: XXcd = CANDELA C = CEILING				
AUDIBLE NOTIFICATION APPLIANCE				F-001
MAGNETIC DOOR HOLDER				
				10921074



10061



1 IST FLOOR DEMOLITION SCALE: 3/16" = 1'-0"

#	E-101 KEYED DEMOLITION NOTES	UNIV RA
2	DEMOLITION AND TAG FOR REUSE. REMOVE EXISTING CONDUIT BACK TO SURFACE RACEWAY. DISCONNECT EXISTING ASSISTED LISTENING DEVICE AND PROPERLY STORE FOR	
3	REUSE. REMOVE ASSOCIATED CABLE BACK BEYOND DEMOLITION AND TAG FOR REUSE. REMOVE EXISTING CONDUIT BACK TO SURFACE RACEWAY. DISCONNECT AND REMOVE 3 EXISTING MICROPHONE JACKS AND BACK BOX.	
4	PROPERLY STORE FOR REUSE. REMOVE CABLE BACK BEYOND DEMOLITION AND TAG FOR REUSE. DISCONNECT AND REMOVE 3 (HDMI, VGA, MINI) EXISTING DIGITAL VIDEO & AUDIO	FACILITIES ENGINEERING
5	JACKS AND BACK BOX. PROPERLY STORE FOR REUSE. REMOVE EXISTING CABLING BACK BEYOND DEMOLITION AND TAG FOR REUSE. DISCONNECT AND REMOVE EXISTING DUPLEX OUTLET. REMOVE CONDUIT AND	ARCHITECTURAL, STRUCTURAL,
6	CIRCUIT BACK TO SURFACE RACEWAY. TAG EXISTING CIRCUIT FOR REUSE. DISCONNECT AND REMOVE EXISTING LIGHTING. TAG EXISTING CIRCUIT FOR REUSE.	CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL ENGINEERING
7	DISCONNECT AND REMOVE EXISTING LIGHT SWITCH. PROPERLY STORE FOR REUSE. TAG EXISTING CIRCUIT FOR REUSE. DISCONNECT AND REMOVE EXISTING SMOKE DETECTOR. PROPERLY STORE FOR	201 HUMPHREYS SERVICE BLDG ITHACA, NEW YORK 14853-3701
0	REUSE. TAG EXISTING INITIATION CIRCUIT FOR REUSE. PROVIDE TEMPORARY HEAT DETECTION DURING CONSTRUCTION.	WARNING
10	RACEWAY IN THIS ROOM. REMOVE BRANCH CIRCUIT BACK TO SOURCE. DISCONNECT AND REMOVE EXISTING LIGHTING AND LIGHTING CONTROLS. TAG	ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT OR ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF THIS DOCUMENT IS ALTERED, THE ALTERING ARCHITECT OR ENGINEER SHALL AFFIX
11	DISCONNECT AND REMOVE EXISTING DATA OUTLET. REMOVE CABLING BACK TO SOURCE.	TO SUCH DOCUMENT THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.
12	DISCONNECT AND REMOVE EXISTING CARD READER. PROPERLY STORE FOR REUSE. TAG EXISTING CIRCUIT FOR REUSE. DISCONNECT EXISTING EXHAUST FAN. TAG EXISTING CIRCUIT FOR REUSE.	ARCH/ CIVIL:
(#)	E-101 KEYED RENOVATION NOTES	ELECTRICAL: <u><u><u></u></u><u><u><u></u><u></u><u><u></u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u></u>
1	MODIFY/EXTEND EXISTING DATA CABLING SAVED DURING DEMOLITION TO NEW LOCATION AND RECONNECT TO EXISTING TV. COORDINATE WITH CIT AND END USER	
2	MODIFY/EXTEND EXISTING ASSISTED LISTENING DEVICE CABLING SAVED DURING DEMOLITION TO NEW LOCATION. PROPERLY MOUNT EXISTING ASSISTED LISTENING DEVICE AND RECONNECT. COORDINATE EXACT LOCATION WITH ENDLISED	TE OF NEW PO
3	MODIFY/EXTEND EXISTING CABLING FOR EXISTING DIGITAL & AUDIO JACKS SAVED DURING DEMOLITION TO NEW LOCATION. REINSTALL EXISTING JACKS AND RECONNECT, COORDINATE EXACT LOCATION WITH END USED	
4	MODIFY/EXTEND EXISTING MIC CABLING TO NEW LOCATION. REINSTALL EXISTING MIC JACKS SAVED DURING DEMOLITION AND CONNECT. COORDINATE EXACT	ICE HARD
5	PROVIDE NEW SPECIFICATION GRADE 120V, 20A DUPLEX RECEPTACLE IN SURFACE MOUNTED BACKBOX. MODIFY/EXTEND EXISTING CIRCUIT SAVED DURING	POFESSIONAL ST
6	DEMOLITION AND CONNECT. PROVIDE 2#12 AWG & 1#12 AWG GROUND IN 3/4" EMT CONDUIT. PROVIDE NEW PENDANT MOUNTED LED LIGHT FIXTURES AS INDICATED. REFER TO	REVISIONS
	LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. MOUNT BOTTOM OF FIXTURE 8'-6" AFF. MODIFY/EXTEND EXISTING LIGHTING CIRCUIT SAVED DURING DEMOLITION AND CONNECT. CIRCUIT NEW LIGHT FIXTURES WITH 2#12 AWG & 1#12	1         12/15/23         ISSUE FOR DD REVIEW           2         02/16/24         ISSUE FOR 95% CD REVIEW           6         03/21/24         ISSUE FOR CONSTRUCTION
7	AWG GROUND IN 3/4" EMT CONDUIT. TYPICAL. PROVIDE 0-10V WALL-BOX DIMMER SWITCHES FOR CONTROL. DESIGN BASIS: HUBBELL LVSD-M-3. CIRCUIT TO LIGHT FIXTURES INDICATED. PROVIDE 120V	
Q	CONNECTION & 0-10V WIRING PER MANUFACTURERS RECOMMENDATIONS AND DETAIL 1/E-001. RELOCATE EXISTING LIGHTS SWITCHES SAVED DURING DEMOLITION	
9	MODIFY/EXTEND EXISTING LIGHT CIRCUITS AND RECONNECT. REMOVE TEMPORARY HEAT DETECTION. RELOCATE EXISTING SMOKE DETECTOR	
10	PROVIDE NEW 120V, 20A SPECIFICATION GRADE DUPLEX RECEPTACLES AND	
11	CIRCUIT AS INDICATED WITH 2#12 AWG & 1#12 AWG GND CONDUCTORS IN ¾." EMT. PROVIDE 120V, 20A/1 POLE CIRCUIT BREAKER IN PANEL INDICATED AND CONNECT TO ASSOCIATED BRANCH CIRCUIT. MATCH EXISTING PANEL TYPE AND AIC RATINGS	
12	PROVIDE QUANTITY OF DATA JACKS AS INDICATED BY NUMBER ADJACENT TO SYMBOL. PROVIDE RACEWAY WITH PULL STRING FOR FUTURE CABLING BY CIT FROM EXISTING TELECOMMUNICATIONS ROOM. CIT SHALL PULL CABLE, TERMINATE	
13	AND TEST. TYPICAL. COORDINATE ALL ROUTING, LOCATIONS AND QUANTITY OF JACKS WITH CIT PRIOR CONSTRUCTION. PROVIDE CONNECTION TO ADA PADDLES ON THE INTERIOR PEDESTAL, IN	N
	VESTIBULE AND ON EXTERIOR BOLLARD AS INDICATED. ROUTE DOWN TO BELOW GRADE (18" MINIMUM) IN ¾" PVC CONDUIT, OVER AND UP INTO NEW BOLLARD FOR CONNECTION TO ADA PADDLE. PROVIDE MANUFACTURER RECOMMENDED CABLE &	
14	CONDULT BE I WEEN DOOR OPENER AND ADA PADDLES. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS, LOCATION AND CLEARANCES. PROVIDE 120V, 20A POWER AS INDICATED AND CIRCUIT WITH 2#12 AWG & 1#12 AWG	
15	GROUND CONDUCTORS IN <sup>3</sup> / <sub>4</sub> " EMT CONDUIT. PROVIDE 20A, 1 POLE CIRCUIT BREAKER IN ASSOCIATED PANEL. MATCH EXISTING TYPE AND RATINGS. PROVIDE 208V, 20A POWER AS INDICATED AND CIRCUIT WITH 2#12 AWG & 1#12 AWG	
16	GROUND CONDUCTORS IN <sup>3</sup> / <sup>2</sup> EMT CONDUIT. PROVIDE 20A, 2 POLE CIRCUIT BREAKER IN ASSOCIATED PANEL. MATCH EXISTING TYPE AND RATINGS. PROVIDE FIRE ALARM NOTIFICATION DEVICE MOUNTED SUCH THAT THE ENTIDE	
	LENS IS NOT LESS THEN 80" AFF OR GREATER THAN 96" AFF. CIRCUIT FROM NEAREST FIRE ALARM NOTIFICATION CIRCUIT SERVING ROOM AREA AND MATCH EXISTING SYSTEM CABLING AND FIRE ALARM DEVICES.	
17	RELOCATE EXISTING CARD READER TO NEW BOLLARD. MODIFY/EXTEND EXISTING CABLING & CONDUIT AS NEEDED. ROUTE DOWN TO BELOW GRADE (18" MINIMUM) IN 3/4" PVC CONDUIT, OVER AND UP INTO NEW BOLLARD FOR CONNECTION TO	0' 2' 4' 6' 12'
18	RELOCATED CARD READER. MATCH EXISTING WIRING. REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS, LOCATIONS AND CLEARANCES. PROVIDE WALL-BOX ON/OFF SWITCH FOR CONTROL DESIGN BASIS: HUBBELL	SCALE: 3/16" = 1'-0"
	LVS-M-1-NP. CIRCUIT TO LIGHT FIXTURE INDICATED BY LOWER CASE LETTER ADJACENT TO LIGHT FIXTURE. PROVIDE 120V CONNECTION & ANY ADDITIONAL WIRING PER MANUFACTURERS RECOMMENDATIONS AND DETAIL 2/E-001	135 PRESIDENTS DR ITHACA, NEW YORK 14850
19	PROVIDE POWER PACK CONTROLLER FOR LIGHTING. CIRCUIT PER MANUFACTURERS RECOMMENDATIONS AND DETAILS 21 & 2/E-001. DESIGN BASIS: HUBBELL UVPPHD.	
20	PROVIDE CEILING MOUNTED PIR VACANCY DETECTOR. CIRCUIT PER MANUFACTURERS RECOMMENDATIONS AND DETAILS 2 & 3/E-001. DESIGN BASIS: NX CONTROLS OMNI-IR-I -RP	BIG RED BARN
21	MODIFY/EXTEND EXISTING CIRCUIT SAVED DURING DEMOLITION AND CONNECT TO NEW EXHAUST FAN.	ADA RESTROOM
22	PROVIDE SPECIFICATION GRADE 120V, 20A GFCI DUPLEX RECEPTACLE. CIRCUIT TO EXISTING RECEPTACLE CIRCUIT AS INDICATED WITH 2#12 AWG & 1#12 AWG GND CONDUCTORS IN ¾:" EMT.	RENOVATION
23	PROVIDE RELAY (SPACE AGE PAM1 10A) IN ADA DOOR OPERATOR AND CIRCUIT TO EXISTING CARD ACCESS CONTROL READER INTERFACE MODULE SO ADA OPERATOR ENERGIZES ONLY AFTER CARD ACCESS HAS BEEN INITIATED.	
		DATE: MARCH 21, 2024
		FACILITY:2040DESIGN:M. SCHOLENO
		DRAWN: MPS
<b>T</b>	ELECOMMUNICATIONS GENERAL NOTES	DEMOLITION &
1.1	PROVIDE 8 POSITION, 8 WIRE, T568A CODED CATEGORY 6 MODULAR JACKS. PANDUIT CJ688TG.	RENOVATION
2.0	FROM THE SAME MANUFACTURER. PANDUIT IVORY BEZEL CBEE SERIES. OBTAIN OUTLET NUMBER CONFIGURATION FOR ROOM LAYOUTS FROM THE	
	CIT/INFRASTRUCTURE ENGINEER. TYPICALLY THE OUTLET DESIGNATIONS ARE ASSIGNED USING THE ROOM NUMBER FOLLOWED BY THE LETTERS A-Z IN A CLOCKWISE ORIENTATION FROM THE LEFT OF THE PRIMARY ENTRANCE OF THE ROOM	
3.0	REFER TO CORNELL COMMUNICATIONS DESIGN AND CONSTRUCTION STANDARD FOR MORE INFORMATION.	E-101
4.0	ALL CABLING, TERMINATING AND TESTING SHALL BE PROVIDED BY CIT.	15921574

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