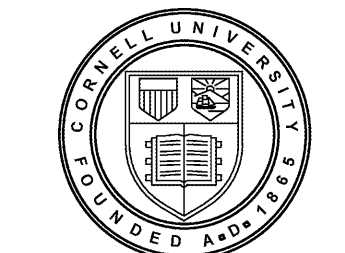


Cornell University



FACILITIES
ENGINEERING

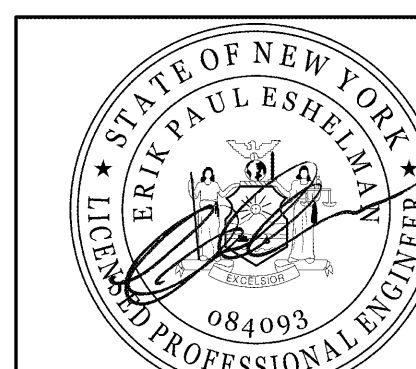
WWW.FCS.CORNELL.EDU
ARCHITECTURAL, STRUCTURAL,
CIVIL, ENVIRONMENTAL,
MECHANICAL, AND ELECTRICAL
ENGINEERING

201 HUMPHREYS SERVICE BLDG
ITHACA, NEW YORK 14853-3701

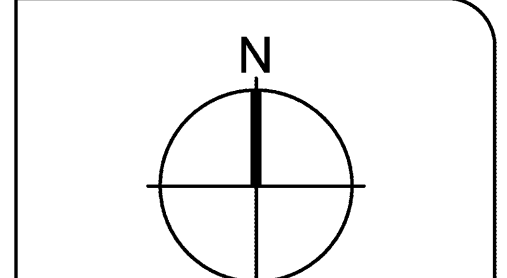
CEP PHYSICAL SECURITY IMPROVEMENTS

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/STRUCT: _____
CIVIL/ENV: _____
ELECTRICAL: _____
MECHANICAL: _____



REVISIONS	
1	09/31/2018 ISSUE FOR DD REVIEW
2	09/12/2018 ISSUE FOR FIRE AHJ REVIEW
3	10/11/2018 ISSUE FOR COORDINATED REVIEW
4	10/12/2018 ISSUE FOR CONSTRUCTION



CEP PHYSICAL SECURITY IMPROVEMENTS

CENTRAL ENERGY PLANT
ITHACA, NEW YORK

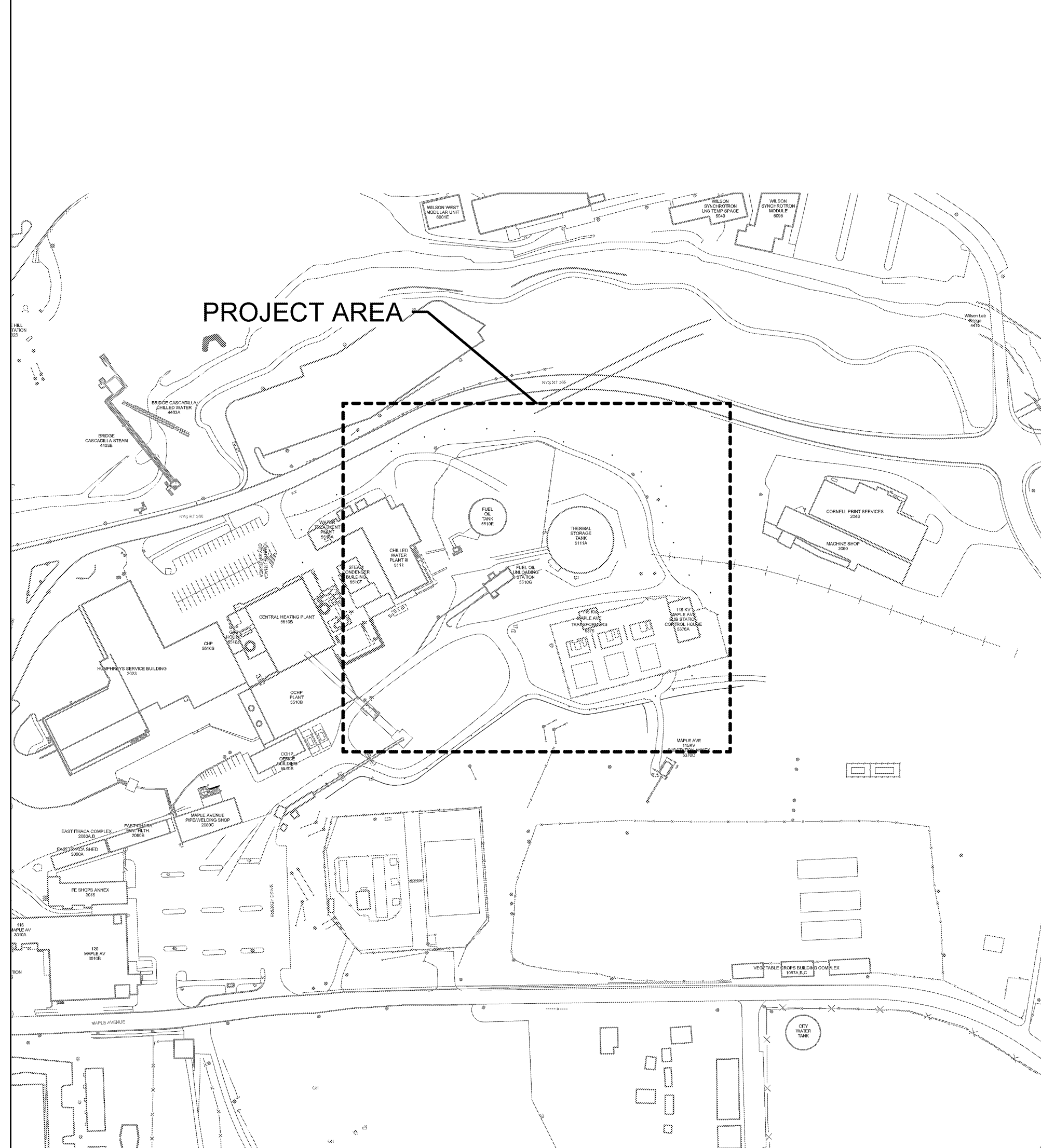
DATE: OCTOBER 12, 2018
FACILITY: 5510B
DESIGN: FE DESIGN
DRAWN: JG

TITLE SHEET

T-001
11000237

ARCHIVE BAR CODE

SITE LOCATION - CENTRAL ENERGY PLANT



PROJECT SCOPE

PROVIDE PHYSICAL SECURITY IMPROVEMENTS AND SIGNAGE TO PROHIBIT UNAUTHORIZED PERSONNEL FROM ENTERING CRITICAL AREAS OF THE CENTRAL HEATING PLANT. IMPROVEMENTS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO:
CHAIN LINK FENCING WITH BARBED WIRE; MANUAL, VEHICULAR AND PEDESTRIAN SWING GATES WITH LOCKS SIMILARLY KEYED; AUTOMATED CANTILEVER SLIDE GATES WITH CODE AND FIRE DEPARTMENT COMPLIANT ACCESS CONTROL; ASSOCIATED POWER, COMMUNICATIONS, AND GROUNDING; ROOF ENTRY PROTECTION; AND PERIMETER SIGNAGE.

DRAWING INDEX

T-001	TITLE SHEET
CIVIL	
C-101	PROPOSED LAYOUT PLAN
C-102	DETAIL PLANS
C-301	DETAILS
C-302	DETAILS
ELECTRIC	
E-001	GENERAL NOTES AND SYMBOL LEGENDS
E-101	LOWER AND UPPER GATE ELECTRICAL PLANS
E-102	FENCE GROUNDING AND BONDING PLAN
E-401	DETAILS
E-402	ACCESS CONTROL RISER DIAGRAMS

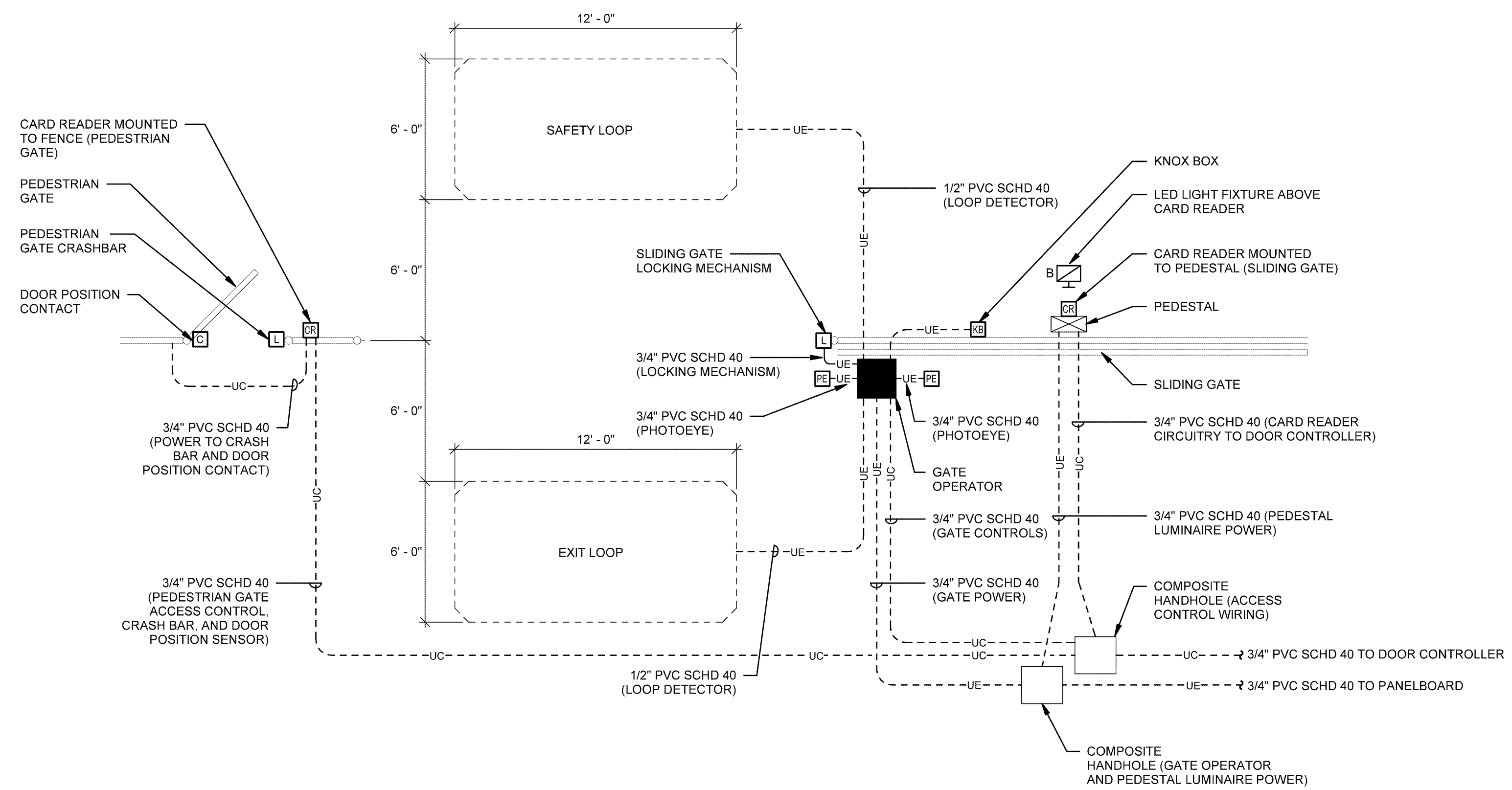
GENERAL SYMBOLS LEGEND

	EXTERIOR ELEVATION
	INTERIOR ELEVATION
	SECTION MARKER
	ENLARGED DETAIL
	CONSTRUCTION KEYED NOTE
	DEMOLITION KEYED NOTE
	DRAWING REVISION NOTE
	LINETYPE: EXISTING TO REMAIN
	LINETYPE: DEMOLITION / TO BE RELOCATED
	LINETYPE: TO BE PROVIDED / NEW

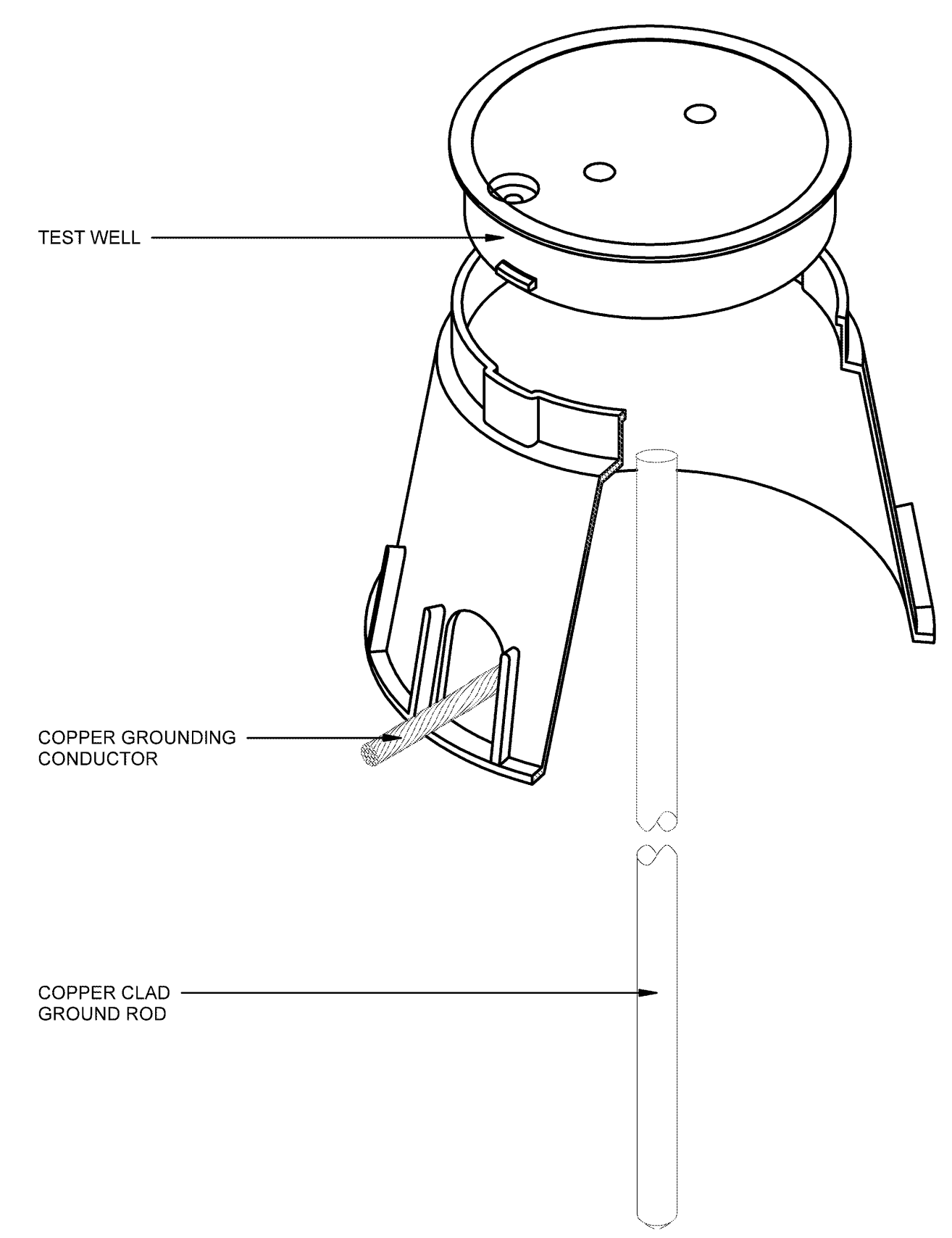
BUILDING CODE SUMMARY

APPLICABLE CODES
2015 (EXISTING) IBC (ADOPTED BY NEW YORK STATE)

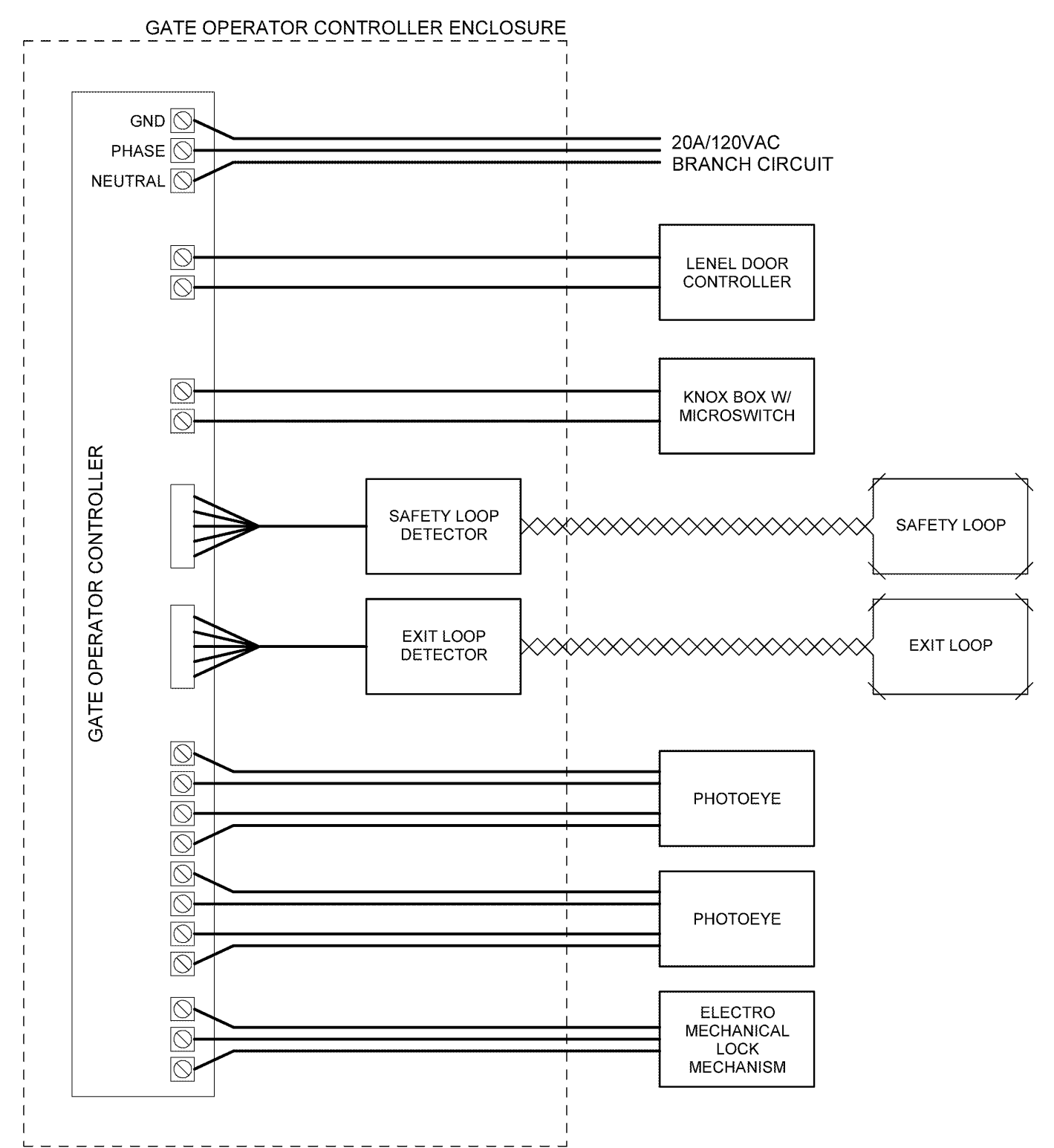
PROJECT SUMMARY
THIS PROJECT INCLUDES THE INSTALLATION OF SECURITY FENCING WITH GATES. PROJECT IMPROVEMENTS MEET CHAPTER 10 OF THE IBC.



4 GATE ENLARGED PLAN - CONDUIT ROUTING
SCALE: NO SCALE

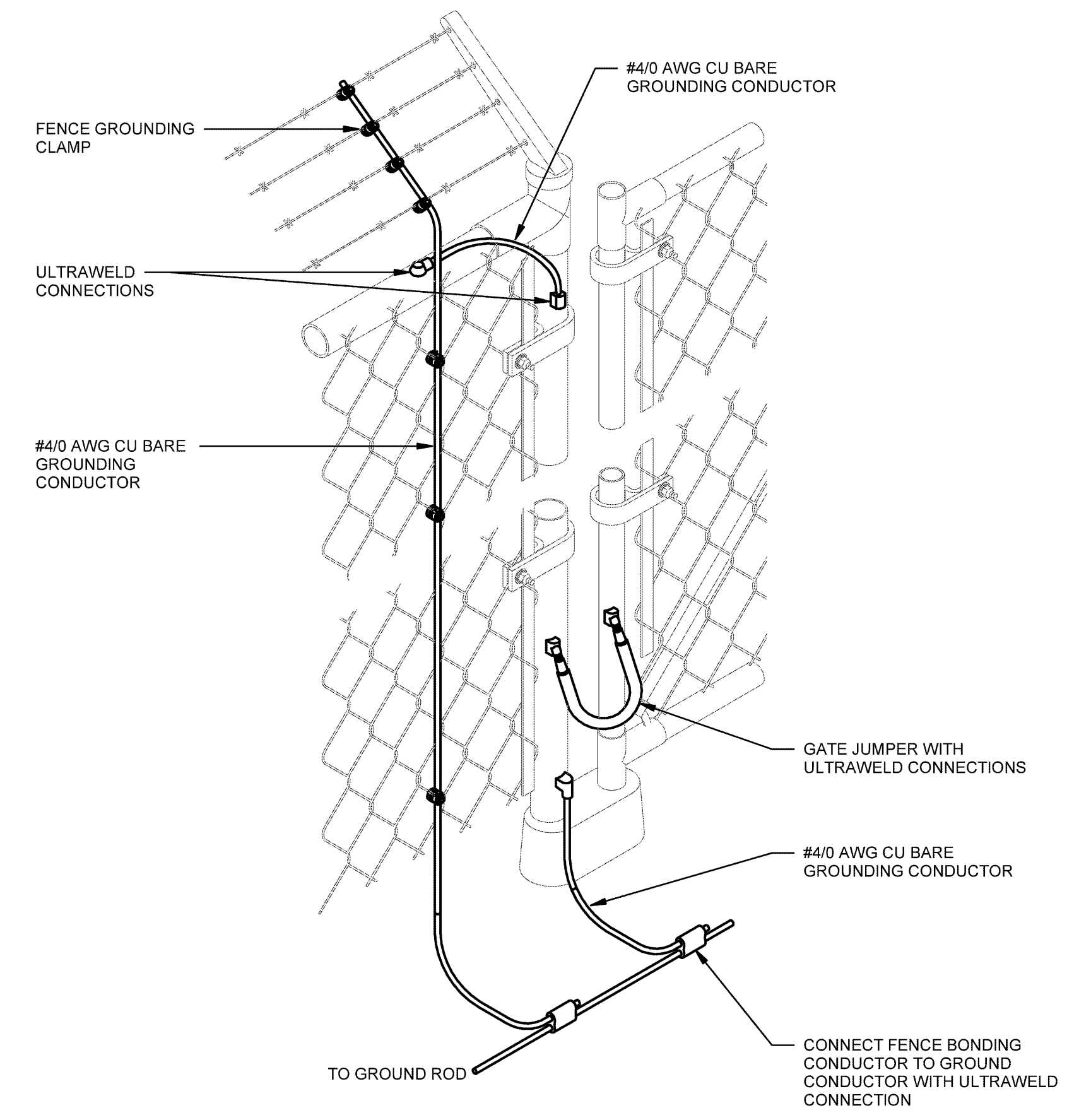


2 TYPICAL GROUND ROD TEST WELL DETAIL
SCALE: NO SCALE

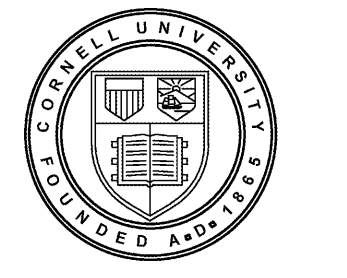


GATE OPERATOR WIRING LEGEND				
TYPE	WIRE	CONDUIT	NOTES	
CARD READER	(2)-PAIR #20AWG CU	3/4"		
KNOX BOX	(1)-PAIR #20 AWG CU	3/4"		
LOOP DETECTOR	HARNES BY MANUF.	-		
LOOP	(1)-PAIR #16 AWG XHHW	1/2"	RUN CONTINUOUS - NO SPLICES; TWIST TOGETHER 6 TURNS/FOOT BETWEEN CONTROLLER AND LOOP	
PHOTOEYE	(2)-PAIR #20AWG CU	3/4"		
LOCK MECHANISM	(1)-PAIR #20AWG CU (1)-PAIR #12 AWG CU	3/4"		

3 GATE OPERATOR WIRING DIAGRAM
SCALE: NO SCALE



1 TYPICAL FENCE & GATE BONDING DETAIL
SCALE: NO SCALE



FACILITIES ENGINEERING
WWW.FGS.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/STRUCT: _____
CIVIL/ENV: _____
ELECTRICAL: _____
MECHANICAL: _____



REVISIONS

1	09/31/2016	ISSUE FOR DD REVIEW
2	08/12/2018	ISSUE FOR FIRE AHJ REVIEW
3	10/11/2018	ISSUE FOR COORDINATED REVIEW
4	10/12/2018	ISSUE FOR CONSTRUCTION

CEP PHYSICAL SECURITY IMPROVEMENTS

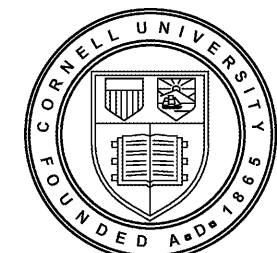
CENTRAL ENERGY PLANT
ITHACA, NEW YORK

DATE:	OCTOBER 12, 2018
FACILITY:	5510A, 5510B
DESIGN:	C. WAYMAN
DRAWN:	CMW

DETAILS

E-401
11000237

ARCHIVE BAR CODE



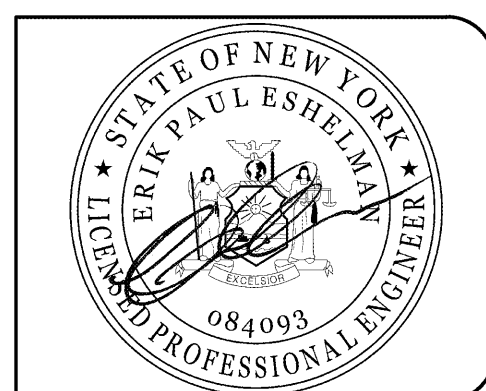
FACILITIES ENGINEERING

ARCHITECTURAL, STRUCTURAL, CIVIL, ENVIRONMENTAL, MECHANICAL, AND ELECTRICAL ENGINEERING

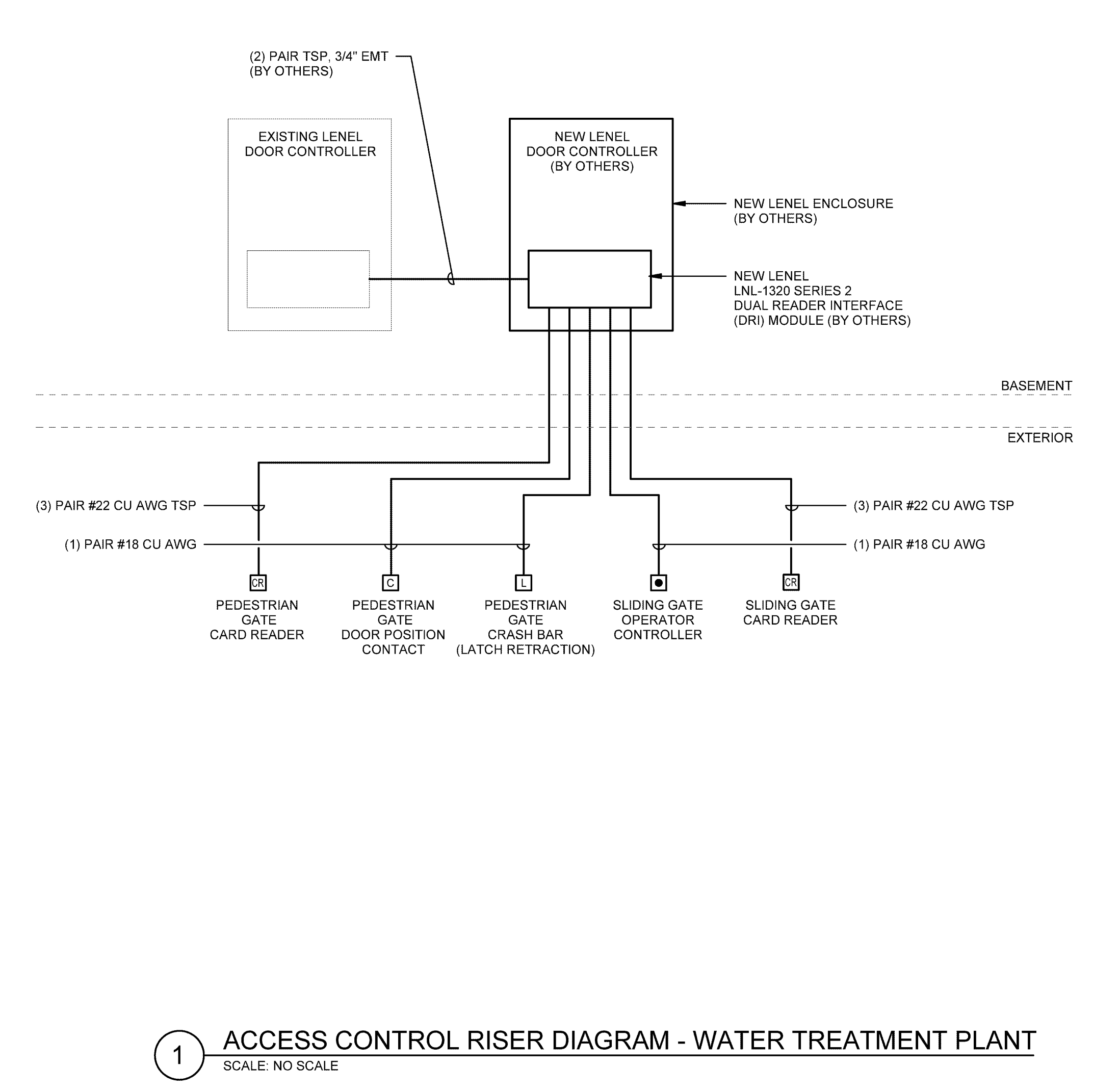
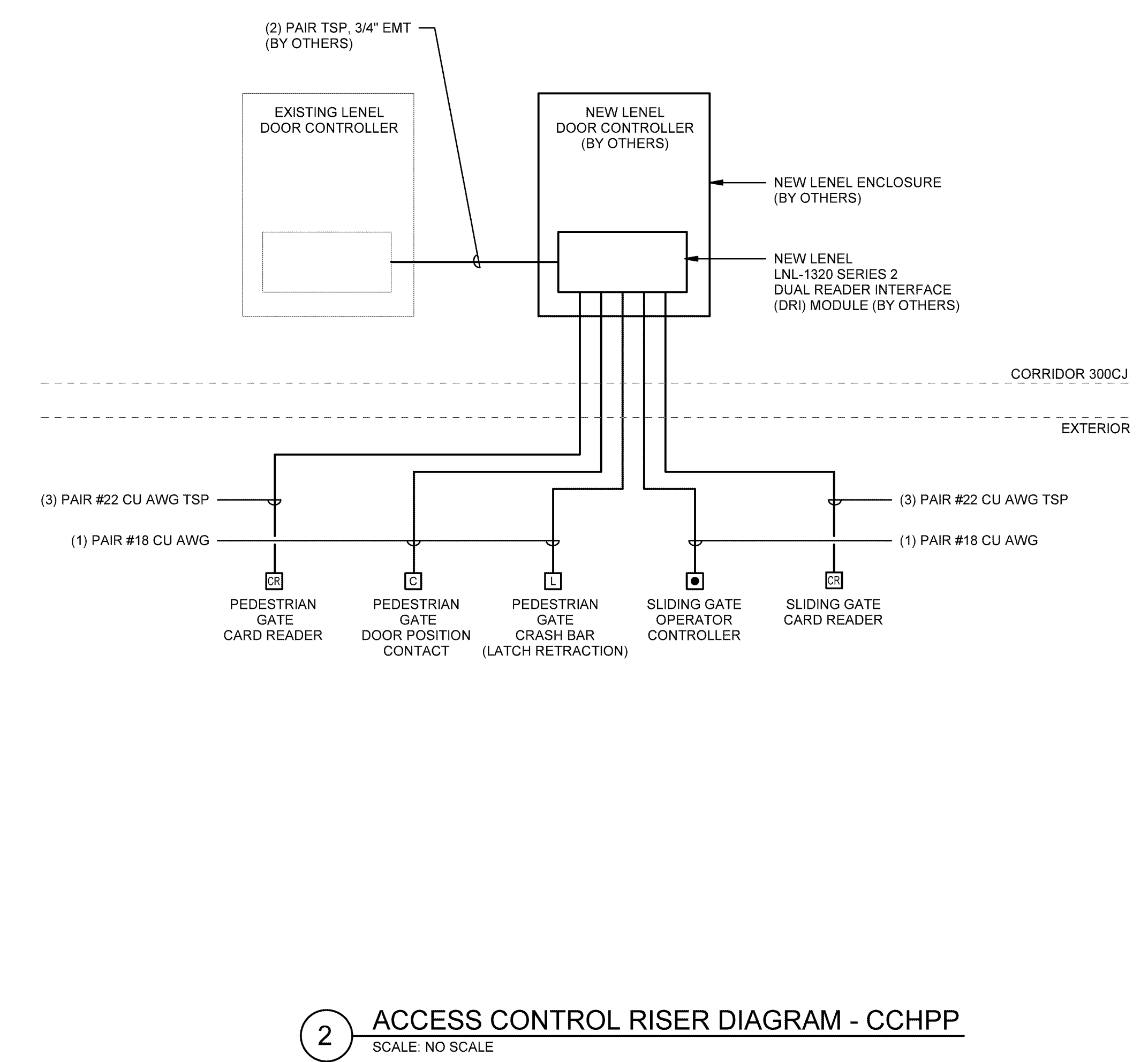
201 HUMPHREYS SERVICE BLDG
ITHACA, NEW YORK 14853-3701

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/STRUCT: _____
CIVIL/ENV: _____
ELECTRICAL: _____
MECHANICAL: _____



REVISIONS	
1	09/31/2018 ISSUE FOR DD REVIEW
2	09/12/2018 ISSUE FOR FIRE AHJ REVIEW
3	10/11/2018 ISSUE FOR COORDINATED REVIEW
4	10/12/2018 ISSUE FOR CONSTRUCTION



CEP PHYSICAL SECURITY IMPROVEMENTS

CENTRAL ENERGY PLANT
ITHACA, NEW YORK

DATE:	OCTOBER 12, 2018
FACILITY:	5510A, 5510B
DESIGN:	C. WAYMAN
DRAWN:	CMW

ACCESS CONTROL RISER DIAGRAMS

E-402
11000237

ARCHIVE BAR CODE