B C D E F G H I J K L M N O P Q R

THE COLLEGE OF NEW JERSEY CAMPUS FIRE ALARM PROJECT PART B - HARDWARE AND SOFTWARE UPGRADES

2000 PENNINGTON ROAD EWING, NJ 08618



SITE LOCATION



AERIAL IMAGE



project
TCNJ - CAMPUS FIRE ALARM PROJECT
PART B - HARDWARE & SOFTWARE UPGRADES
2000 PENNINGTON ROAD,
EWING NJ, 08618

title
COVER SHEET

scale drawn by checked by date
AS SHOWN SC SG 5/03/2020

E000

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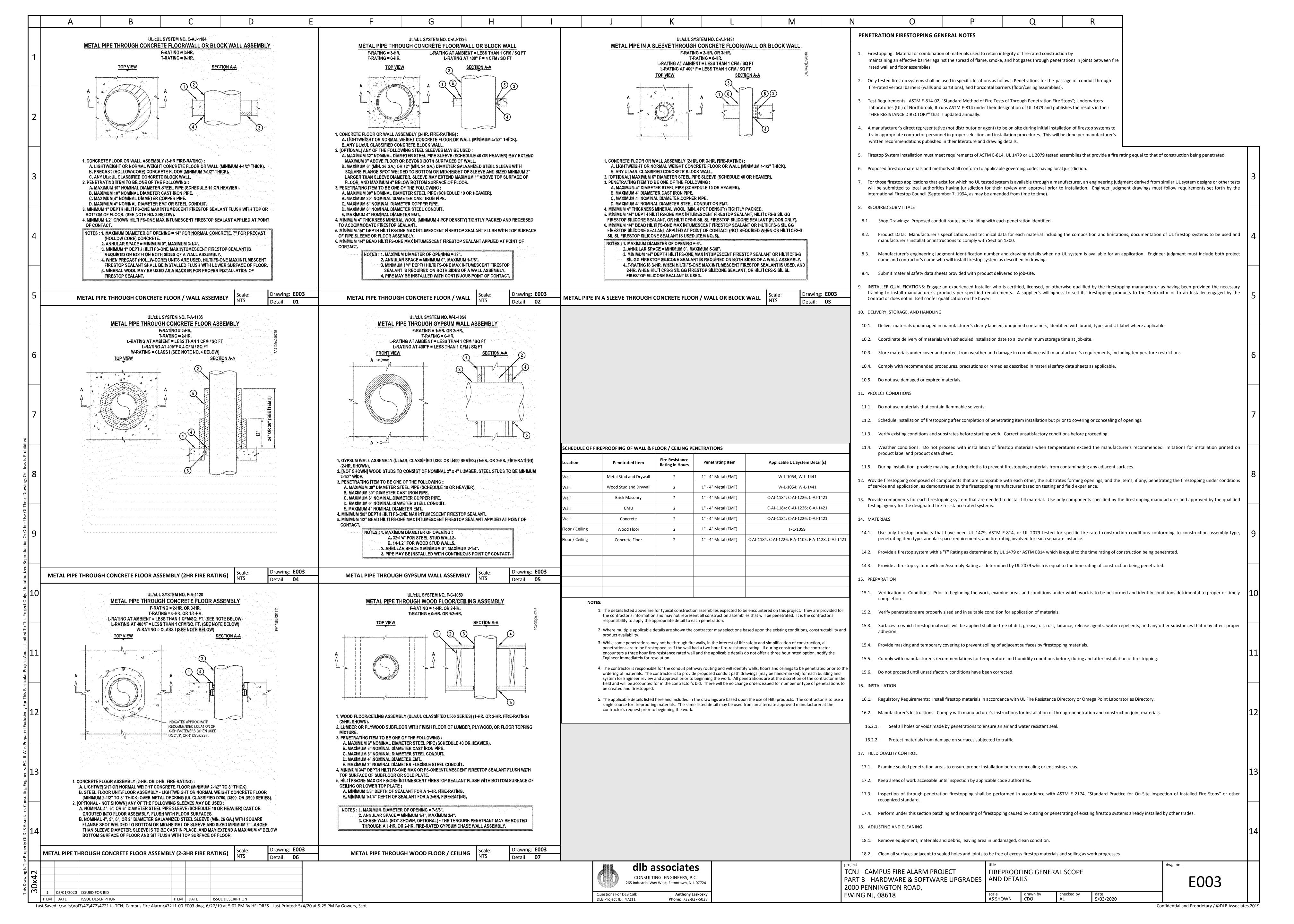
ITEM DATE ISSUE DESCRIPTION ITEM DATE ISSUE DESCRIPTION

Last Saved: \w-fs\Vol3\47\472\47211 - TCNJ Campus Fire Alarm\47211-00-E000.dwg, 5/3/20 at 8:07 AM By SGOWERS - Last Printed: 5/4/20 at 5:25 PM By Gowers, Scot

05/01/2020 ISSUED FOR BID

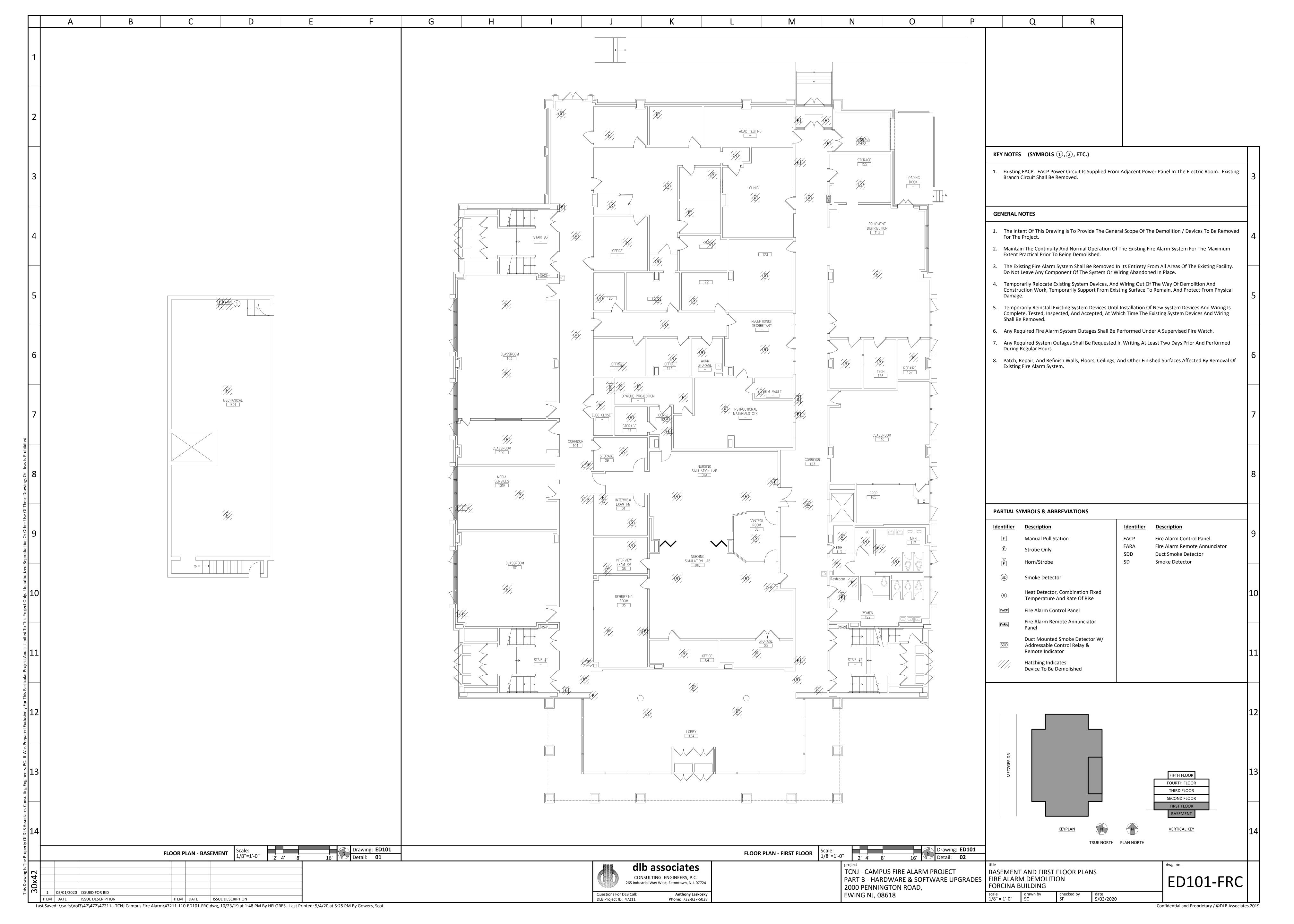
A B C D E	F G H		<u> </u>	J	K L M N		0	Р	Q	R		
PROJECT OVERVIEW	No. Drawing Title	Issues /	/ Revisi	sions	No. Drawing Title	Issues /	/ Revisions	KEY PARTICIF	ANTS & THEIR ROLES			
1. Project Description:		d For Bi 2020				d For Bi 3/2020		Client The College Of	MEP New Jersey DLB	Associates, PC		
A. The Project Consists Of Various Fire Alarm System Upgrades Throughout The TCNJ Campus That Include The Replace Of The Campus Fire Alarm Front End System And Various Building Level Fire Alarm Systems And Components To Ei The Integration Of The Buildings Into The New Life Safety Management System (LSMS) System. Overview Of Proje	nable octs is	ssue(05/1/				ssue		2000 Pennington Ewing, NJ 0862	on Road 265 I 8-0718 Eato	ndustrial Way West ntown, NJ 07724		
As Follows:	FOOO COVER SHEET	x			E101-MUS MUSIC BUILDING - FIRE ALARM PANEL REPLACEMENT	X		Contact: Mum Email: cplanco Phone: (609)-7	nsult2@tcnj.edu Tel:	act: Anthony Laskosky (732) 927-5038		
 Installation Of Campus Life Safety Management System (Campus Server Or System To Allow Control And Monit Of All Campus Fire Alarm Panels) 	E001 GENERAL INFORMATION	X			E102-MUS MUSIC BUILDING - FIRE ALARM EXISTING LAYOUT	X		Phone: (609)-7	/1-23/2			
2) Replacement Of Building Fire Alarm Panels	E002 GENERAL INFORMATION	Х			E101-NRES NEW RESIDENCE HALL - FIRE ALARM PANEL REPLACEMENT	х						
3) Fire Alarm Panel Replacements Are Required For Buildings That Have Addressable Devices From The S Manufacturer As The new LSMS. Other Buildings Will Require A Full System Replacement Including All Device		x			E102-NRES NEW RESIDENCE HALL - FIRE ALARM EXISTING LAYOUT E103-NRES NEW RESIDENCE HALL - FIRE ALARM EXISTING LAYOUT	X						
Full Addressability	FORCINA HALL - FIRE ALARM REPLACEMENT	-			E101-NORS NORSWORTHY HALL - FIRE ALARM PANEL REPLACEMENT	X						
4) Full Replacement Of Fire Alarm System (Panels And Devices) At 2 Buildings (Forcina And Maintenance) And 4 C Structures (Press Box, Generator, Concession Stand, Fire Pump)	Dther E001-FRC GENERAL INFORMATION SHEET	Х			E102-NORS NORSWORTHY HALL - FIRE ALARM EXISTING LAYOUT	х		TCNI	CANADUS FIDE ALADRA Driority List			
B. Overall Campus Objective Is to Have A Fully Addressable Campus Wide Fire Alarm System That Will Allow All Bui Level Devices To Be Seamlessly Integrated / Displayed/ Controlled By The New Campus Life Safety Management Syste	-	X			E101-PACK PACKER HALL - FIRE ALARM PANEL REPLACEMENT E102-PACK PACKER HALL - FIRE ALARM EXISTING LAYOUT	X		ID ICNJ -	CAMPUS FIRE ALARM - Priority List Building Name	GSF (sqft)	System	Priority List
C. The First Phase Of The Project Consists Of A New Campus Life Safety Management System To Integrate All Exi	EDIOT THE BASEMENT AND THIS TEGORY EARS THE ALARM DEMOCITION	X X			E102-PACK PACKER HALL - FIRE ALARMI EXISTING LAYOUT E101-PHEL PHELPS HALL - FIRE ALARM PANEL REPLACEMENT	X			g	201 (64).67	(existing)	
Buildings With Fire Alarm Panels. In This Phase A Minimum Number Of Buildings Must Be Integrated At A Device Poi Level Into The New Campus Front End System. This May Require Replacement Of All Fire Alarm Devices And Wiri	int ID	X			E102-PHEL PHELPS HALL - FIRE ALARM EXISTING LAYOUT	х		1	Admin Services Building	32,340	Siemen	ns X
Some Buildings Depending On The Vendor Bidding This Project.	ED104-FRC FOURTH FLOOR PLAN - FIRE ALARM DEMOLITION	х			E101-PWR POWERHOUSE - FIRE ALARM PANEL REPLACEMENT	X			AIMM Building	72,101	Honeywe	<u> </u>
2. Scope:A. The Following Is A Brief Overview Scope Of The Work For This Project (Not Intended To Be All Inclusive):	ED105-FRC FIFTH FLOOR PLAN - FIRE ALARM DEMOLITION E101-FRC BASEMENT AND FIRST FLOOR PLANS - FIRE ALARM	X			E102-PWR POWERHOUSE - FIRE ALARM EXISTING LAYOUT E101-REC RECREATION CENTER - FIRE ALARM PANEL REPLACEMENT	X			Armstrong Hall Biology Building	98,288 77,893	Simple Simple	
1) This part of the project will consist of three phases that will be utilized in order to achieve the overall goal of a					E102-REC RECREATION CENTER - FIRE ALARM EXISTING LAYOUT	X			Bliss Hall & Annex	72,854	Simple	
addressable campus fire alarm system while achieving the immediate goal of replacing the campus Life S Management System.	i rany	X			E101-ROSC ROSCOE HALL - FIRE ALARM PANEL REPLACEMENT	х		6	Brower Student Center	91,861	Honeywe	ell X
2) The First Phase Of The Project Consists Of A New Fire Alarm Campus Front End System (Life Safety Manage		Х			E102-ROSC ROSCOE HALL - FIRE ALARM EXISTING LAYOUT	X			Business Building	46,000	Simple	
System) To Integrate All 43 Existing Buildings. In This Phase A Minimum Of 23 Buildings Must Be Integrated Device Point ID Level Into The New Campus Front End System. This May Require Replacement Of All Fire A	At A E105-FRC FIFTH FLOOR PLAN - FIRE ALARM	X			E101-SCI SCIENCE COMPLEX - FIRE ALARM PANEL REPLACEMENT E102-SCI SCIENCE COMPLEX - FIRE ALARM EXISTING LAYOUT	X	+		Centennial Hall	49,944 11,700	Honeywe Honeywe	
Devices And Wiring At Some Buildings Depending On The Vendor Bidding This Project. 2) Phase 2 And Phase 2 Of This Project Feeb Shall Consist Of Any Specific Vendor Medifications Required To Prov	E200-FRC SCHEDULES AND DETAILS	X			E102-SCI SCIENCE COMPLEX - FIRE ALARM EXISTING LAYOUT E103-SCI SCIENCE COMPLEX - FIRE ALARM EXISTING LAYOUT	x			Powerhouse Cromwell Hall	85,847	Honeywe Siemen	
3) Phase 2 And Phase 3 Of This Project Each Shall Consist Of Any Specific Vendor Modifications Required To Prov Fully Addressable Connection Of An additional 10 Buildings (Each Phase) From The Remaining Buildings.	MAINTENANCE BUILDING - FIRE ALARM REPLACEMENT				E101-SPRE SOCCER FIELD PRESS BOX - FIRE ALARM PANEL REPLACEMENT	х			Decker Garage	264,238	Simple	<u> </u>
4) The Phasing Of Buildings Will Depend On The Fire Alarm System Manufacturer Selected.	E001-MNT GENERAL INFORMATION SHEET	X			E200-SPRE SOCCER FIELD PRESS BOX - FIRE ALARM EXISTING LAYOUT	X			Decker Hall	94,438	Simple	
B. Life Safety Management System (LSMS)	E002-MNT PHOTO OVERVIEW ED101-MNT DEMOLITION FLOOR PLAN - FIRE ALARM	X			E101-SOCL SOCIAL SCIENCE - FIRE ALARM PANEL REPLACEMENT E102-SOCL SOCIAL SCIENCE - FIRE ALARM EXISTING LAYOUT	X			Education Building	79,885 147,100	Honeywe	
1) Installation Of A Life Safety Management System (LSMS) With Workstations At Admin Services and Power House With Servers At Green and Cromwell That Will Enable Device Level Communication For Every Building	e And Level F101-MNT FLOOR PLAN - FIRE ALARM	^			E101-SPRT SPIRITUAL CENTER - FIRE ALARM PANEL REPLACEMENT	x			Eickhoff Hall Ely-Allen-Brewster	49,096	Honeywe Simple	
Addressable Device Connected To The System. This Shall Include All Functionality Currently Implemented In Existing Honeywell xBSI System Such As; Graphic Plans For Each Building, Device Status, Alarm Status, Alarm Co	n the	x			E102-SPRT SPIRITUAL CENTER - FIRE ALARM EXISTING LAYOUT	х			Forcina Hall		Faraday / Standard Tim	
Trend Logs, Etc. 2) For Initial Installation Of New FACP's In All Buildings Where New FACP's Will Act As Intermediary To Existing Bui	ilding				E101-STAD STADIUM GENERATOR / PRESS BOX BUILDING - FIRE ALARM PANEL REPLACEMEN	T X		17 F	Forcina Garage	50,752	Honeywe	ell
System During The Interim Period, The New Panels Shall Be Integrated Into The New LSMS System And Shall Monitor The Existing Building Level Fire Alarm Control Panel For Trouble And Tamper. The New Panel Installed	Also CAMPOS SCHEMATIC DESIGN - FIRE ALARM REPLACEMENT				E200-STAD STADIUM GENERATOR / PRESS BOX BUILDING - FIRE ALARM EXISTING LAYOUT E101-THE TOWN HOUSE EAST - FIRE ALARM PANEL REPLACEMENT	X			Green Hall	71,808	Honeywe	
Be Of Capacity To Be Able To Accommodate Complete Building Upgrade At A Later Date To Provide For Integration With the New Campus Wide Front End.		x			E102-THE TOWN HOUSE EAST - FIRE ALARM EXISTING LAYOUT	X			Hausdoerffer Hall 	70,639 64.300	Honeywe Honeywe	
C. Building Fire Alarm Systems	E101-AIMM AIMM BUILDING - FIRE ALARM PANEL REPLACEMENT	X			E103-THE TOWN HOUSE EAST - FIRE ALARM EXISTING LAYOUT	х			Gitenstein Library	153,515	Honeywe	
1) Replacement Of Building Fire Alarm System (Panel And Devices) At Forcina Hall And Maintenance Buildings V		Х			E101-THS TOWN HOUSE SOUTH - FIRE ALARM PANEL REPLACEMENT	X		22	Frenton Hall	33,097	Siemen	ns X
Will Include New Fire Alarm Control Panel, Devices, Conduit, Cabling, Etc. The Replacement System Shall Be Compatible And Integrated With The New LSMS Being Installed.		X			E102-THS TOWN HOUSE SOUTH - FIRE ALARM EXISTING LAYOUT E103-THS TOWN HOUSE SOUTH - FIRE ALARM EXISTING LAYOUT	X		23	Maintenance Building	21,049	Standard Tim	ne Full Retrofit
2) Replacement Of Fire Alarm System And All Devices At The Following Other Structures: Stadium Generator/ Press		X X			E101-THW TOWN HOUSE WEST - FIRE ALARM PANEL REPLACEMENT	X			Metzger Garage	340,000 50,200	Honeywe	
Soccer Press Box, Stadium Concession and Fire Pump. These Will Include New Fire Alarm Control Panel, Devices Conduit, Cabling, Etc. The Replacement System Shall Be Fully Compatible And Integrated With The New LSMS Being Installed	vices,	X			E102-THW TOWN HOUSE WEST - FIRE ALARM EXISTING LAYOUT	х			Music Building New Residence Hall	57,875	Honeywe Honeywe	
3) Replacement / Addition Of Fire Alarm Panels In All Other Buildings On Campus With Panels That Are Fully Compa		Х			E101 TREN TRENTON HALL - FIRE ALARM PANEL REPLACEMENT	X			Norsworthy Hall	43,200	Honeywe	ell X
With The New LSMS Being Installed. This will include installation of New FACP's in the remainder of the buildings To Establish Point-Level Intelligence And Fully Addressable Systems In All Campus Facilities. All new FACP's will be	gs To E102-BLIS BLISS HALL & ANNEX - FIRE ALARM EXISTING LAYOUT	X			E102 TREN TRENTON HALL - FIRE ALARM EXISTING LAYOUT E101-TWG TRAVERS & WOLFE PARKING GARAGE - FIRE ALARM PANEL REPLACEMENT	X		28	Packer Hall	89,075	Simple	ex X
integrated into the new campus LSMS.	E103-BLIS BLISS HALL & ANNEX - FIRE ALARM EXISTING LAYOUT E101-BSC BROWER STUDENT CENTER - FIRE ALARM PANEL REPLACEMENT	$\frac{x}{x}$			E102-TWG TRAVERS & WOLFE PARKING GARAGE - FIRE ALARM EXISTING LAYOUT	X			Phelps Hall	70,639	Honeywe	
4) Depending On The Contractor-Manufacturer That Wins The Bid, Some Buildings Will Require Full Replacement (Existing Devices To Provide Point-Level Addressability At The New LSMS. For These Buildings, The Contractor	Shall E102-BSC BROWER STUDENT CENTER - FIRE ALARM EXISTING LAYOUT	X			E101-TW TRAVERS & WOLFE HALLS - FIRE ALARM PANEL REPLACEMENT	х			Stadium Generator Building Recreation Center	153 53,861	Simple Honeywe	
Furnish A Code-Compliant Design With Complete Design Documents And Shop Drawings For The Buildings. The Drawings Shall Comply With The Recommendations And Requirements In The Documentation Section Of Fundamentals Chapter In NFPA 72.		х			E101-STEM STEM BUILDING - FIRE ALARM PANEL REPLACEMENT	X			Roscoe Hall	108,934	Honeywe	
5) The Existing Fire Alarm System In The Buildings Shall Remain Operational And Unimpaired Until The Replace	ment E102-BUS BUSINESS BUILDING - FIRE ALARM EXISTING LAYOUT	X X			E102-STEM STEM BUILDING - FIRE ALARM EXISTING LAYOUT E101-CONC STADIUM CONCESSION STAND - FIRE ALARM PANEL REPLACEMENT	X		33	Science Complex	123,068	Siemen	ns X
System Is Installed, Fully Functional And Communicating With The LSMS. Impairments Of The Existing System Be Minimized And Coordinated With The College As Per The Project Documentation. Fire Watch Will Be Req	Shall E101-CENT CENTENNIAL HALL - FIRE ALARM PAINEL REPLACEMENT	$\frac{x}{x}$			E200-CONC STADIUM CONCESSION STAND - FIRE ALARM EXISTING LAYOUT	X		34	Soccer Field Press Box		loca	cal Full Retrofit
During All Impairments. All Work Causing Impairment Of The Building Fire Alarm System Shall Be Scheduled D Off Hours.	uring E101-CROM CROMWELL HALL - FIRE ALARM PANEL REPLACEMENT	X			E101-FPH FIRE PUMP HOUSE - FIRE ALARM PANEL REPLACEMENT	х			Social Science	74,000	Honeywe	
	E102-CROM CROMWELL HALL - FIRE ALARM EXISTING LAYOUT	х			E200-FPH FIRE PUMP HOUSE - FIRE ALARM EXISTING LAYOUT	х			Spiritual Center Stadium Concessions Stand	4,450	Honeywe ———————————————————————————————————	
D. Addition Of Carbon Monoxide Detection To Address Code Compliance Issues In The Following Buildings; Administrat Services Building, Armstrong Hall, Biology Building, Bliss Hall & Annex, Brower Student Center, Centennial Hall, Cromwell Hall, Decker Hall, Hausdoerffer Hall, New Residence Hall, Norsworthy Hall, Packer Hall, Phelps Hall, Power	CHOWWELL HALL - FIRE ALARM EXISTING LATOUT	X X							Stadium Press Box		Simple	
House / Co-Generation, Science Complex, Social Science Building, STEM Building, Townhouse East, Townhouse South Townhouse West, and Travers & Wolfe Halls.	E101-DGRG DECKER GARAGE - FIRE ALARM PANEL REPLACEMENT E102-DGRG CROMWELL / DECKER PARKING GARAGE - FIRE ALARM EXISTING LAYOUT	$\frac{x}{x}$						39	STEM Building		Honeywe	ell X
C. There Are Other Systems In Various Buildings Connected To Existing FACP'S That Communicate To The Front End	F101 DECK DECKED HALL FIDE ALADM DANIEL DEDLACEMENT	x							Travers/Wolfe Garage	112,692	Honeywe	ell
Through The Fire Alarm System. IT Will Be The Contractor's Responsibility To Transfer Those Systems That Are Curr Reporting To The Existing Panels. THERE Are Panels That Monitor Accessory Systems Such As Security, Fire Shu	rently tters, E102-DECK DECKER HALL - FIRE ALARM EXISTING LAYOUT	х							Гown House East Гown House South	68,212 65,000	Siemen Siemen	
Clean/Special Agent Systems, CO Detectors, And Access Control, ETC. CONTRACTOR Shall Survey The Buildings Include All Additional Accessory Systems And Intermediary Devices Required To Be Integrated In The Shop Drawings.		X							Town House West	65,537	Siemen	
	E101-EAB ELY-ALLEN-BREWSTER - FIRE ALARM PANEL REPLACEMENT E102-EAB ELY-ALLEN-BREWSTER - FIRE ALARM EXISTING LAYOUT	X X							Fravers/Wolfe Halls (First Floor)	280,494	Simple	
1	E103-EAB ELY-ALLEN-BREWSTER - FIRE ALARM EXISTING LAYOUT	x							Fire Pump House	480	Honeywe	ell
	E104-EAB ELY-ALLEN-BREWSTER - FIRE ALARM EXISTING LAYOUT	х			DOCUMENT ORGANIZATION			X - Denot	es Buildings That Can Be Included In Phase 1			
	E101-EDU EDUCATION BUILDING - FIRE ALARM PANEL REPLACEMENT E102-EDU EDUCATION BUILDING - FIRE ALARM EXISTING LAYOUT	X			<u>Specifications</u>			DOCUMENT (ORGANIZATION (CONTINUED)			
PROJECT OBJECTIVES AND EXECUTION	E102-EDU EDUCATION BUILDING - FIRE ALARM EXISTING LAYOUT E103-EDU EDUCATION BUILDING - FIRE ALARM EXISTING LAYOUT				A Book Specification Is Provided With These Drawings.				es - Used In Lieu Of Standard Notes \	, ,	lity, Key Notes Are Gatl	thered Together And Liste
1. Objectives:	E101-ECK EICKHOFF HALL - FIRE ALARM PANEL REPLACEMENT	x			<u>Miscellaneous</u>				ely On The Drawings On Which They	Are Located.		
A. The Intent Is To Keep The Campus And All Buildings Connected To The Existing Fire Alarm Front End As Long As Pra		х			1. The Term 'Sheet' Or 'Drawing' Is Used Interchangeably.			Addenda & Re	visions enda And Revisions Are Identified O	n The Drawings Using A	The Number In The T-	Friangle Links To The
During The Construction. As A Result Timing And Phasing Of The Construction Will Be High Priority During Constru Planning And Contractor Selection.		X			2. Printing Of The Plans Is Often Reduced, So A Graphic Scale Is Provided On Each Sheet.	√t - ' '	December 1. 5		lock In The Title Block Section.	The Drawings Using A /1 .	c wamber in the If	THE EITHS TO THE
B. The Project Must Be Completed On Time.	E102-FGRG FORCINA GARAGE - FIRE ALARM EXISTING LAYOUT E101-GRN GREEN HALL - FIRE ALARM PANEL REPLACEMENT				3. For Items That Are Plans, Details, And Other Graphic Items, Titles Are At The Bottom C Are Predominately Text Such As Schedules, Titles Are At The Top Of The Item Describe		vescribed. For Items Tha		s The Most Recent Change Is Cloude	ed To Provid	de Increased Clarity.	
C. The Work Must Be Scheduled & Adjusted As Needed To Accommodate The Operation Of The College Of New Jersey.		x			4. Shading Of An Area Often Is Used To Emphasize An Area To The Reader. Some Of The Can Be:	Possible Pu	urposes Of This Emphasis	Drawing Seque		Nerview Diagrams And Disease	liews Followed Dr. All C	Other Portings
D. Complete The Project As Fast As Possible While Maintaining Quality And Minimizing Disruption.	E101-HAUS HAUSDOERFER HALL - FIRE ALARM PANEL REPLACEMENT	х							With General Information Sheets, C Vhere Effective, Supplemental Inform			omer refullent
2. Project Execution:	E102-HAUS HAUSDOERFER HALL - FIRE ALARM EXISTING LAYOUT E101-KEN KENDALL HALL - FIRE ALARM PANEL REPLACEMENT	X			B. Defining A Topics Boundary Without Conflicting With Other Linework.			Drawing Numb	pering			
A. The Project Shall Be Bid To A Single Prime Contractor. The Contractor Shall Include All Sub Contractors Under	Them E101-KEN KENDALL HALL - FIRE ALARMI PANEL REPLACEMENT E102-KEN KENDALL HALL - FIRE ALARM EXISTING LAYOUT	^ x						The Drawing N	umbering Strategy And Nomenclatu			
Necessary To Complete The Various Scope Items Included In These Documents.	TI T	x			D. Differentiate Line Work In Congested Areas.				X###-	XXXX		
Necessary To Complete The Various Scope Items Included In These Documents. B. Any Period Of Downtime For Life Safety Systems (Fire Alarm System) Shall Require Fire Watch Per TCNJ Standards	E101-LIB GITENSTEIN LIBRARY - FIRE ALARM PANEL REPLACEMENT				How Notes Are Used							
Necessary To Complete The Various Scope Items Included In These Documents.	E101-LIB GITENSTEIN LIBRARY - FIRE ALARM PANEL REPLACEMENT E102-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT	X						1	1 1	<u> </u>	All · ·	
Necessary To Complete The Various Scope Items Included In These Documents. B. Any Period Of Downtime For Life Safety Systems (Fire Alarm System) Shall Require Fire Watch Per TCNJ Standards	E102-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT E103-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT	X			1. General Notes - One Or More In List Form Which Are Not Indicated Specifically On A P	lan, Sectio	n, Elevation, Or Detail.	Dra	awing Trade:	Unique I	Abbreviations ID: 1, 2, 3	
Necessary To Complete The Various Scope Items Included In These Documents. B. Any Period Of Downtime For Life Safety Systems (Fire Alarm System) Shall Require Fire Watch Per TCNJ Standards	E102-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT E103-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT E101-MGRG METZGER GARAGE - FIRE ALARM PANEL REPLACEMENT	X X X	+		 General Notes - One Or More In List Form Which Are Not Indicated Specifically On A P Notes For This Drawing - General Notes Located Only On The Drawing That Applies. 	lan, Sectio	n, Elevation, Or Detail.	Dra E	awing Trade: Electrical	——————————————————————————————————————	ID: 1, 2, 3 Series: - IntroSheets	
Necessary To Complete The Various Scope Items Included In These Documents. B. Any Period Of Downtime For Life Safety Systems (Fire Alarm System) Shall Require Fire Watch Per TCNJ Standards	E102-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT E103-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT	X X X X	<u>+</u>			lan, Sectio	n, Elevation, Or Detail.	Dra E	Electrical	——————————————————————————————————————	ID: 1, 2, 3 Series: - IntroSheets - Building Plans	
Necessary To Complete The Various Scope Items Included In These Documents. B. Any Period Of Downtime For Life Safety Systems (Fire Alarm System) Shall Require Fire Watch Per TCNJ Standards	E102-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT E103-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT E101-MGRG METZGER GARAGE - FIRE ALARM PANEL REPLACEMENT	X X X X	# # T		2. Notes For This Drawing - General Notes Located Only On The Drawing That Applies. Drawing That Applies Drawing That Applies	, :	n, Elevation, Or Detail. PUS FIRE ALARM PRO	E	_	Unique I Drawing 0 Series - 1 Series -	ID: 1, 2, 3 Series: - IntroSheets	
Necessary To Complete The Various Scope Items Included In These Documents. B. Any Period Of Downtime For Life Safety Systems (Fire Alarm System) Shall Require Fire Watch Per TCNJ Standards	E102-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT E103-LIB GITENSTEIN LIBRARY - FIRE ALARM EXISTING LAYOUT E101-MGRG METZGER GARAGE - FIRE ALARM PANEL REPLACEMENT	X X X X X	<u>+</u> -	C C	2. Notes For This Drawing - General Notes Located Only On The Drawing That Applies. Drawing That Applies	J - САМГ Т В - НАГ		OJECT	title GENERAL INFORMATION	Unique I Drawing 0 Series - 1 Series -	ID: 1, 2, 3 Series: - IntroSheets - Building Plans	E001

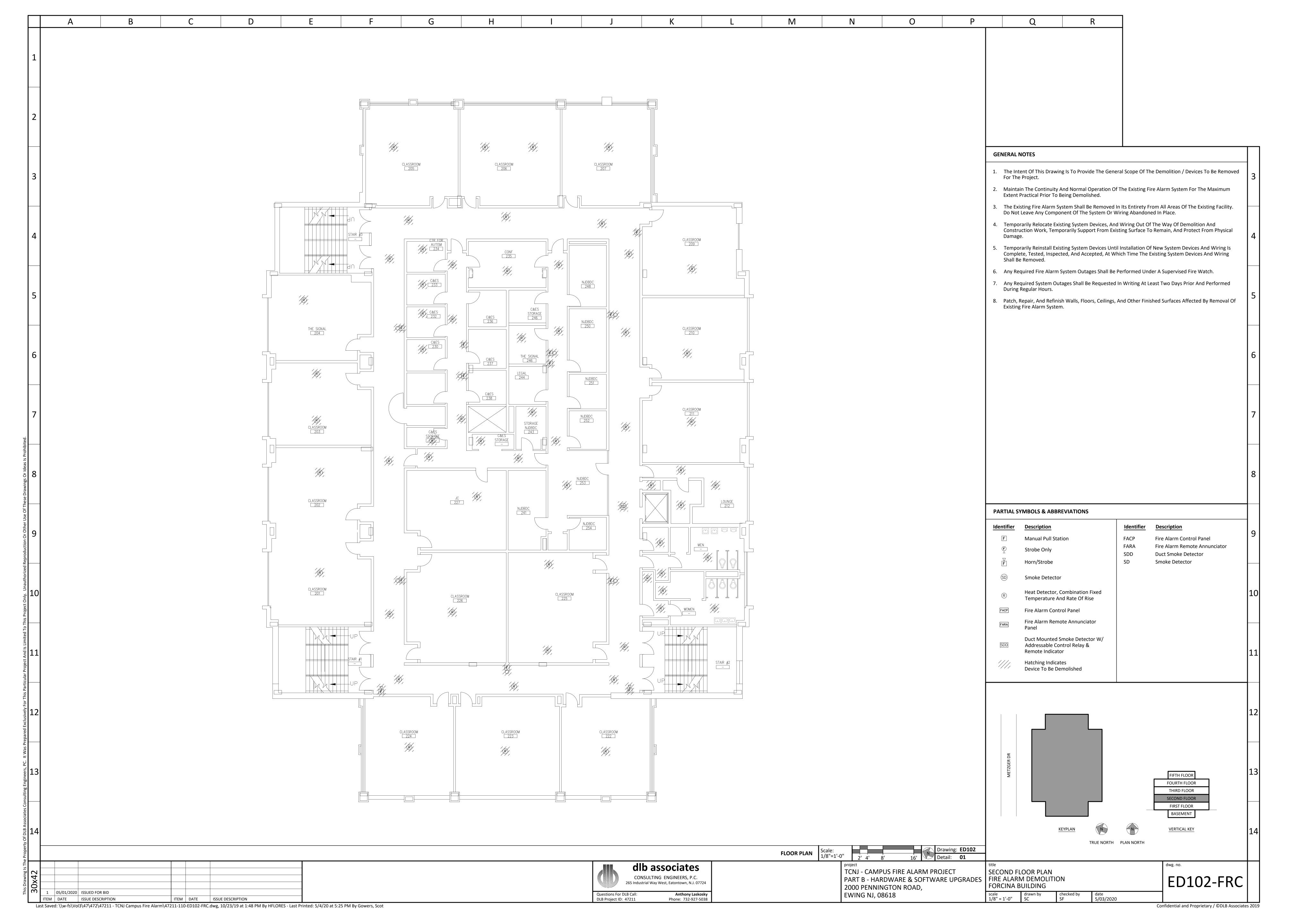
1 1 To Coordinate This Project's Scool of Work With Other Projects Being Undertaken by Others For TCN Including: 1 To Coordinate This Project's Scool of Work With Other Projects Being Undertaken by Others For TCN Including: 2 Coordinate Affects Fermination Locations with TCN IT Department. 3 Coordinate Affects Fermination Locations with TCN IT Department. 4 Coordinate Affects Fermination Locations with TCN IT Department. 5 Coordinate Affects Fermination Locations with TCN IT Department. 6 Coordinate Affects Standard Work To Limit Impacting Emergency Ect Boates During Time Supplies Department of Limited TCN, The Use of Project General Regulations And Codes. This Includes, But to Not Limited TCN, The Use of Project General Regulations And Codes. This Includes, But to Not Limited TCN, The Use of Project General Regulations And Codes. This Includes, But to Not Limited TCN, The Use of Project General Regulations And Codes. This Includes, But to Not Limited TCN, The Use of Project General Regulations And Codes. This Includes, But to Not Limited TCN, The Use of Project Affects Markins Supplies, But Markins Affects Affects Markins Supplies Affects	A. This Section Contains Requirements For Construction Administration Of MEP/FP Work. These Requirements Are In Any Requirements Listed Elsewhere In The Contract Documents. Where Conflicts Exist Between This Section And Otl The More Stringent Requirement Shall Apply. 2. As-Built Documentation A. Contractor To Maintain Daily Mark-Up Of As-Built Drawings To Show The Actual Installation Where Installation Varies Shown Originally. Individual Or Entity That Obtains Record Data, Whether Individual Or Entity Is Installer, Subco Similar Entity, To Provide Information For Preparation of Corresponding Marked-Up As-Built Drawings. As-Built Drawings To Be Reviewed Monthly With The Owner Or Engineer, For Approval. B. Items Requiring Documentation Include, But Are Not Limited To, The Following: 1) Dimensional Changes To Drawings, Revisions To Details, Depths Of Foundations, Locations And Depths Of Lutilities, Revisions To Systems (Both Life Safety And Non-Life Safety), Actual Equipment Locations, Duct And Piping Sizes And Routing, Concealed Internal Utilities, Changes Made By Change Order Or Change Directive And Changes Made Following Written Orders. 3. Request For Information A. Requests For Information (RFI) Are Questions Posed By The Contractor Intended To Resolve Vagueness And Conconstruction. B. To Submit A RFI, The Contractor Must Fill Out A Request For Information Form. Alternately, The Contractor Approved By Engineer, Submit An RFI Electronically Using A Common Subject Line Format. An Electronically Submitt Include The Following Information: 1) Subject Line (Example): Project Name - Trade (MEP or FP) RFI #XXXX 2) All RFI requests must be copied electronically to the architect (where applicable)	ther Sections, CLOSEOUT REQUIREMENTS 1. Operation And Maintenance Manuals
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9. Contractor Shall Visit The Site Prior To Bidding And Notify TCNJ / DLB of Discrepancies in An RFI During The Questions Period Of The Bid Milestones Schedule. 10. Buildings Are Active And Shall Be Occupied During This Work And Timing is Critical. Before Any Work is Done On Site Contractor To Provide An Overall Impairment Schedule As A Submittal With At Least 2 Weeks For Review. This Is To List All Buildings And Impact On Existing Fire Alarm Coverage. Contractor To Provide A 2 Week look Ahead Prior To Starting Any Work. 11. The Existing Fire Alarm System In The Buildings Shall Remain Operational And Unimpaired Until The Replacement System Is Installed, Fully Functional And Communicating With The LSMS. Impairments of The Existing System Shall Be Minimized And Coordinated With The College As Per The Project Documentation. Fire Watch Will Be Required During All Impairments. All Work Causing Impairment Of The Building Fire Alarm System Shall Be Scheduled During Off Hours. 12. During Any Full Or Partial Lane Closures, For Any Duration, The Contractor Or Its Subcontractor(s) Shall Provide Proper Traffic Control Measures. 13. Buildings Are Active And Contractor Shall Be Required To Work Off Hours To Install New Devices And Perform Other Work In Active Areas To Minimize Impact On The Building Occupants. In Most Buildings, Construction Will Be Required To Be Done During 2nd Shift (4pm To 12 PM) And / Or 3rd Shift (12am To 8am). The Residence Hall Buildings Will Only Be Accessible During Summer Or Winter Breaks. 14. Contractor Shall Ensure Continued Front-End Reporting Communication During The Disconnection Work Shall Render The System Nor Upstream/Downstream Buildings Impaired With Respect To System Reporting. 15. Ensure All Fire Alarm Systems Are FM Approved, And Is Installed By An FM Approved Contractor. A Ensure The Proposed Final Acceptance Tests Meets The Items Listed In Table 1 Of Data Sheet 5-40, Fire Alar More Acceptance Tests Meets The Items Listed In Table 1 Of Data Sheet 5-40, Fire Alar More Acceptance	B. To Submit A RFI, The Contractor Must Fill Out A Request For Information Form. Alternately, The Contractor In Approved By Engineer, Submit An RFI Electronically Using A Common Subject Line Format. An Electronically Submitted Include The Following Information: 1) Subject Line (Example): Project Name - Trade (MEP or FP) RFI #XXXX 2) All RFI requests must be copied electronically to the architect (where applicable)	May, Where Shall Be Listed.
Provide An Overall Impairment Schedule As A Submittal With At Least 2 Weeks For Review. This is To List All Buildings And Impact On Existing Fire Alarm Coverage. Contractor To Provide A 2 Week look Ahead Prior To Starting Any Work. 11. The Existing Fire Alarm System In The Buildings Shall Remain Operational And Unimpaired Until The Replacement System Is Installed, Fully Functional And Communicating With The LSMS. Impairments Of The Existing System Shall Be Minimized And Coordinated With The College As Per The Project Documentation. Fire Watch Will Be Required During Off Hours. 12. During Any Full Or Partial Lane Closures, For Any Duration, The Contractor Or Its Subcontractor(s) Shall Provide Proper Traffic Control Measures. 13. Buildings Are Active And Contractor Shall Be Required To Work Off Hours To Install New Devices And Perform Other Work In Active Areas To Minimize Impact On The Building Occupants. In Most Buildings, Construction Will Be Required To Be Done During 2nd Shift (4pm To 12 PM) And / Or 3rd Shift (12am To 8am). The Residence Hall Buildings Will Only Be Accessible During Summer Or Winter Breaks. 14. Contractor Shall Ensure Continued Front-End Reporting Communication During The Disconnection Work Shall Remder The System Nor Upstream/Downstream Buildings Impaired With Respect To System Reporting. 15. During Any Full Or Partial Lane Closures, For Any Duration, The Contractor or Its Subcontractor(s) Shall Provide Proper Traffic Control More Added To Existing Systems. 16. Ensure All Fire Alarm Systems Are FM Approved, According To FM Global Property Loss Prevention Data St Systems. In Most Buildings Are Active And Contractor Shall Be Required To Be Done During 2nd Shift (4pm To 12 PM) And / Or 3rd Shift (12am To 8am). The Residence Hall Buildings Will Only Be Accessible During Summer Or Winter Breaks. 15. Contractor Shall Ensure Continued Front-End Reporting Communication During The Disconnection Of Existing FACPs. No Disconnection Work Shall Remder The System Nor Upstream/Downstream Buildings	1) Subject Line (Example): Project Name - Trade (MEP or FP) RFI #XXXX 2) All RFI requests must be copied electronically to the architect (where applicable) To Interconnect At WCH And	COURSE WHICE I
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The College As Per The Project Documentation. Fire Watch Will Be Required During All Impairments. All Work Causing Impairment Of The Building Fire Alarm System Shall Be Scheduled During Off Hours. 12. During Any Full Or Partial Lane Closures, For Any Duration, The Contractor Or Its Subcontractor(s) Shall Provide Proper Traffic Control Measures. 13. Buildings Are Active And Contractor Shall Be Required To Work Off Hours To Install New Devices And Perform Other Work In Active Areas To Minimize Impact On The Building Occupants. In Most Buildings, Construction Will Be Required To Be Done During 2nd Shift (4pm To 12 PM) And / Or 3rd Shift (12am To 8am). The Residence Hall Buildings Will Only Be Accessible During Summer Or Winter Breaks. 14. Contractor Shall Ensure Continued Front-End Reporting Communication During The Disconnection Work Shall Render The System Nor Upstream/Downstream Buildings Impaired With Respect To System Reporting. 25. Contractor Shall Provide A Mock Installation With The TCNJ Team To Demonstrate Installation On Site With Stall Render The Horovide A Mock Installation With The TCNJ Team To Demonstrate Installation On Site With Suspended Contractor In According To FM Approved, According To FM Global Property Loss Prevention Data She Systems. This Includes The Systems In the Entirely New Systems In The Maintenance Building And For Added To Existing Systems. 26. Ensure All Fire Alarm Systems Are FM Approved, According To FM Global Property Loss Prevention Data She Systems. This Includes The Systems In the Entirely New Systems In The Maintenance Building And For Added To Existing Systems. This Includes The Systems In the Entirely New Systems In The Maintenance Building And For Active And Contractor Shall Be Power Accessible During Summer Or Winter Building Systems. 27. Contractor Shall Provide A Mock Installation With The TCNJ Team To Demonstrate Installation On Site With Systems In the Entire Alarm Systems Are FM Approved, According To FM Global Property Loss Prevention Data She Systems. This	The state of the s	Emergency Operating Procedures) Each Piece Of Equipment, How To Set The Temperature Control System For Normal Operation And Normal Restarting Procedures, And Caution / Warning Notices.
 During Any Full Or Partial Lane Closures, For Any Duration, The Contractor Or Its Subcontractor(s) Shall Provide Proper Traffic Control Measures. Buildings Are Active And Contractor Shall Be Required To Work Off Hours To Install New Devices And Perform Other Work In Active Areas To Minimize Impact On The Building Occupants. In Most Buildings, Construction Will Be Required To Be Done During 2nd Shift (4pm To 12 PM) And / Or 3rd Shift (12am To 8am). The Residence Hall Buildings Will Only Be Accessible During Summer Or Winter Breaks. Contractor Shall Ensure Continued Front-End Reporting Communication During The Disconnection Work Shall Render The System Nor Upstream/Downstream Buildings Impaired With Respect To System Reporting. Systems. This Includes The Systems In the Entirely New Systems In The Maintenance Building And For Added To Existing Systems. Ensure All Firestopping Material Is FM Approved, And Is Installed By An FM Approved Contractor. Ensure The Proposed Final Acceptance Tests Meets The Items Listed In Table 1 Of Data Sheet 5-40, Fire Alar Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Log By The Electrical Contractor In Accordance With Field Conditions And The Following: Ceiling Mounted Devices Shall Be Coordinated With Suspended Ceiling, Lighting Fixtures, Diffusers, D 	Selection Or Approach. RFI Submitted Without This Information Will Be Returned Unchecked.	
Areas To Minimize Impact On The Building Occupants. In Most Buildings, Construction Will Be Required To Be Done During 2nd Shift (4pm To 12 PM) And / Or 3rd Shift (12am To 8am). The Residence Hall Buildings Will Only Be Accessible During Summer Or Winter Breaks. 3. Ensure The Proposed Final Acceptance Tests Meets The Items Listed In Table 1 Of Data Sheet 5-40, Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan	D. Where Possible, all RFI Should Be Accompanied With Pictures, Tables, Graphs, Sketches Or Supplementary Explanator This Procedure Allows The Responder To Have As Much Information As Practical At The Time Of Review For Timely A	7 Approved onep Brannings, Freduce Baca, And France Bookiet For Each Item of Material And Equipment
Breaks. 4. Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Location On The Plan Drawing Is Diagrammatic. Exact Location On The Plan Drawing Is Diagram In The Plan Drawing Is	E. II The KFI Questions A Clearly Noted Item Of Standard Construction Method Which Should be known by the Con	6) Test And Balance Reports. ntractor, The
Work shall hender the system for opstream ballangs impaired with hespeat to system hepoting.	4. Substitutions	7) Copies Of Certificates Of Inspection and Warranties, Including Extended Warranties (Where Applicable).D. Deliver The Manuals To The Owner Prior To Submitting Application For Final Payment.
15. In Buildings Where Existing Fire Alarm Panels Are Less Than 11 Years Old, Are Point-Level Intelligent And Fully Addressable, And Are B. Wall Mounted Devices Shall Be Coordinated With Other Wall Mounted Devices, Wall Construction	A. Substitutions For Specified Equipment Must Include A Detailed Comparison Checklist Identifying All Pertinent Sim	
Fully Compatible With The New LSMS Are Not Required To Be Replaced. In These Cases, Contractor Shall Submit Supporting Documentation Including FACP Manufacturer's Certification Of Useful Life, 10 Years Of Continued Support, And Spare Capacity Meeting Project Requirements, Prior To Work Being Performed On Site. Requirements. Whenever Possible Devices Shall Be Mounted Flush Or Semi Flush. Surface Mounted Where Approved By Engineer, Architect, And Owner. For Devide Ceiling Mounted Streke Detector At Fach Fire Alexes Control Page 1. Pa	GENERAL SUBMITTAL REQUIREMENTS	A. The Contractor Shall Prepare A Complete Set Of Record Drawings Of All Systems Including Electrical And Control Diagrams Prior To Final Payment. Final Payment Shall Not Be Made Until The Record Drawings Are Deemed Complete And Approved By The
16. In Buildings Where All Existing Fire Alarm System Devices Must Be Replaced, The Existing Components Shall Be Removed In Their Entirety From All Areas Of The Existing Facility. Do Not Leave Any Components Of The Existing System Abandoned In Place. Where Wiring Is Required To Be Replaced, Existing Wiring Shall Be Demolished In Its Entirety: No Existing Wiring Shall Be Abandoned In Place. 5. Provide Ceiling Mounted Smoke Detector At Each Fire Alarm Control Panel, Remote Power Panel, And Remote Power Pa	1. Schedule Of Values A. Brier To Initiating Any Work. The Contractor Shall Submit A Schedule Of Values On An AIA C 702 Continuation Shall	Engineer.
Wiring Is Required To Be Replaced, Existing Wiring Shall Be Demolished In Its Entirety; No Existing Wiring Shall Be Abandoned In Place. A. Duct Mounted Smoke Detectors Shall Be Wired To Shut Down The Associated Unit And Annunciat Panel. 17. If The Contractor Determines The Existing Device Wiring Is Compatible With New Devices, Less Than 25-Year-Old, And Will Warranty Its B. Remote Reset Capability Shall Be Provided For Each Detector. Coordinate Location Of Test Switches	Material And Labor Costs For Each Item. This Schedule Of Values Shall Be Submitted As The First Shop Drawing.	Described In The AIA CAD Layer Guidelines Or Similar Convention. Other Software Or Layer Naming Conventions Will Be Approved Only In Writing By Owner And Architect/Engineer.
Reviewed By TCNJ Prior To Start Of Work For That Building. That They Are Accessible. Switches Shall Be Provided With Identification Label. 7. Hot Work Of Any Kind Should Be Avoided. If There Is A More Practical And Safer Way To Do The	e Job Without Hot Work, The C. Include A Line Item For As-Built Drawings Which Will Be Reviewed At Each Payment Application. This Line Item Sho	
Alternative Method Should Be Used. If Hot Work Is Unavoidable, Precautions Such As Those Outlined On Permit System Should Be Taken During Any Work. 8. FM Global Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System Should Be Notified Of All Impairments To The Sprinkler System And Other Fire Suppression System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To The Sprinkler System Should Be Notified Of All Impairments To T	D. No Payment Applications Will Be Processed Until The Schedule Of Values Form Has Been Approved By The Engineer.	1) Digital Storage Media Containing Editable, Vector-Based, Electronic File With Required Blocks, XREFs, Linetypes And Styles.
The Observations Listed Below Were Compiled Based On Information From TCNJ And Visual Field Inspections At Each Building. Full Building Environmental Surveys Were Not Performed Under This Scope And Underground Conditions Are Unknown. Contractor Shall Thoroughly Investigate Any Proposed Routing For Environmental Hazards. Shut Down Of Fire Pumps Due To A Lack Of Utility Power During This Project. Shut Down Of Fire Pumps Due To A Lack Of Utility Power During This Project. 9. When Replacing An Existing FACP It Is The Contractors Responsibility To Transfer All Systems That Are	2. Service Interruption Schedule re Currently reporting To The	 One (1) Full Size And Two (2) Half Size Prints, Bound. PDF Of Above Listed Items On Digital Storage Media For Owner Records.
Existing Panel. There Are Certain Panels That Monitor Accessory Systems Such As Security, Fire Shutter Detectors, Access Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Such As Security, Fire Shutter Detectors, Access Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Such As Security, Fire Shutter Detectors, Access Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Such As Security, Fire Shutter Detectors, Access Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Such As Security, Fire Shutter Detectors, Access Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Such As Security, Fire Shutter Detectors, Access Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems Control Etc. Control Et		Dr. Upon Completion And Acceptance Of Work, Contractor Shall Furnish Type-Written Updated Panel Schedules For Any Panel In Which Work Was Done. Provide A Hard Copy And Electronic Copy To The Owner.
2. If Any Areas Of Asbestos Are Encountered In Any Building And Cannot Be Avoided, Contractor Shall Engage An Environmental Consultant For Testing. Asbestos Abatement, If Required Shall Be Covered Under Environmental Allowance.	B. The Contractor Shall Notify The Owner And Engineer In Writing At Least Five (5) Business Days Prior To Each Equipment System Shutdown.	nent And / Or 3. Punchlist Completion Letter
3. Green Hall And Recreation Center Both Have Known Areas Of Asbestos In Certain Above Ceiling Areas. 4. Most Older Buildings Have Lead-Based Paint In One Form Or Another And Lead-Safe Work Protocols Shall Be Incorporated Into	3. Equipment Manufacturer List	A. The Purpose Of This Letter Is To Inform The Engineer That The Contractor Has Completed All Punchlist Items. The Contractor Must Ensure That All Punchlist Items Are Indeed Complete Prior To Submitting This Letter.
Standard Work Procedures For This Project Including, But Not Limited To, The Following: A. Contractor To Be EPA Certified In Lead-Based Paint Safe Work Practices and Train All Workers In Said Practices A. The Contractor Is Responsible To Indicate Any Discrepancies Between The Contract Drawings And Ac Submittal Of Bid. Submission Of A Proposal Will Be Construed As Evidence That Such An Examination		And Approval B. Upon Completion Of Punchlist Items, The Contractor Shall Create A Punchlist Completion Letter On Company Letterhead, Complete The Letter And Send It To The Engineer.
B. Work Area Contaminant To Be Used To Prevent Dust And Debris From Leaving The Work Place 1) Later Claims Shall Not Be Made For Labor, Equipment Or Material Required Because Of Difficulti C. Thorough Cleaning Followed By Cleaning Verification To Minimize Lead-Based Paint Hazard Exposures.	4. Shop Drawing Submission Schedule	C. This Letter Shall Be Received At The Engineer's Office No Later Than One (1) Week Before The Project Completion Date. Upon
D. No Eating Or Drinking In The Work Area. 2) The On-Site Inspection Shall Verify Existing Conditions Where New Work Or Renovations Are Trades.	Schedule Is To Identify Which Items Require Shop Drawings And When These Shop Drawings Will Be Submitted To T	The Engineer.
E. Post Signs Clearly Identifying Work Area. 2. Existing Facilities And Operations F. Provide Asbestos Testing In Any Suspect Areas.	C. The Contractor Shall List All The Items That Require Submittals Per The Contract Documents And Specifications. The Shall Fill Out The Submittal Date Column For Each Item And Return The Completed Form To The Engineer For	
A. Connections To Existing Work: Install New Work And Connect To Existing Work With Minimum Inter GENERAL NOTES A. Connections To Existing Work: Install New Work And Connect To Existing Work With Minimum Inter Temporary Shutdowns Of Service Shall Be Performed At No Additional Charge, At Times Not To Inter Of Existing Facilities And Only With Written Consent Of Owner. Alarm And Emergency System	erference To Existing Facilities. Contractor May Use A Different Form Of His Choosing Provided The Required Information Is Provided.	4. Final Acceptance
Temporarily And Must Be Back In Full Service At The End Of Each Day. 1. General: B. Maintain Continuous Operation Of Existing Facilities As Required With Necessary Temporary Con	Submitted To, And Approved By, The Engineer.	A. Final Acceptance Shall Be Made After The Contractor Has Adjusted His Equipment, Tested The Various Systems, Demonstrated That It Fulfills The Requirements Of Drawings And Specifications And Has Furnished All The Required Submittals And Certificates Of Inspections And Approval.
A. All General Notes Are To Be Read And Adhered To By Each Contractor. The Notes Are Loosely Categorized By Trade, But This Does Not Limit The Responsibility Of The Contractor To Any Single Category. Existing Work. Connect New Work To Existing Work In A Neat And Acceptable Manner. Restore Original Condition, Including Maintaining Wiring Continuity As Required.	C. In a consider College State of Mill De Detoure of Delegated	
B. Entire Installation Shall Comply With All Local And State Codes And Other Authorities Having Jurisdiction. C. Proper Fire Protection Measures, Satisfactory To The Local Fire Department, Shall Be Taken When Welding Or Cutting With C. Work Will Be Conducted In A Live Working Environment. Provide Two Week Look Ahead Schedule Project. Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Project Coordinate And Obtain Approval From Owner For Any Work That Will Affect Live Portions (Projec		FIBER NOTES
Torches Or Electric Arc. Contractor To Provide Open Flame Permit If Required. 3. Demolition D. All Contractors Are To Maintain One Set Of Red Line As-Builts On Site During Construction Period For Review By The Owner /	 Prior To The Installation Of Any Work And Procurement Of Equipment, Contractor Shall Provide Complete Sets Of Coord Drawings Of All New And Existing Indicating Capacity, Dimensions And Sequence Of Operation Equipment And Includ Showing Any Conflicts For Written Approval By the Architect And Engineer. 	de All Trades 1. All Cables To Be Tested Upon Receipt At Project Site To Determine Continuity Of Each Strand End To End With Optical Loss and OTDR
Engineer. A. Disconnect, Remove And / Or Relocate Existing Material, Equipment And Other Work As Note Installation Of New Work. E. All Open Ended Conduits Are To Be Protected During The Construction Period From Construction Dust And Debris.	2. The Contractor Shall Submit Shop Drawings Of All Major Manufactured Items Required On This Project. Include Sufficient	Test Sets (Tier 1 And Tier 2 Testing). Compare To Manufacturer's Testing Certification For Fiber Cable; Damaged Cable Shall Be Replaced. Contractor To Maintain A Test Record And Label Each Strand With Test Date And Submit Such Data As A Formal Submittal Under This Project.
B. The Contractor Shall Remove Any And All Obsolete, Unused Or Unnecessary Items As Called Out On E Any Such Items Intended For Such Removal Shall Be Completely Verified And Approved By The Owne 2. Coordination:	her And Engineer. A. Shop Drawings Must Include A Completed Copy Of The Shop Drawing Transmittal.	 All Fiber To Be Installed In Flexible Non Metallic Conduit Within Conduits And Multiple Fibers Can Be Pulled In The Same Conduit If Possible.
A. Contractor Shall Coordinate Their Work With The Existing Field Conditions, And Other Active Projects In Construction Or Development That Could Directly Impact, Or Be Impacted By, The Scope Of This Project. C. Any Existing Equipment That May Be Relocated To Accommodate New Work May Be Accomplished B Is Done So At No Additional Expense To The Owner And Written Permission Has Been Obtained From Development That Could Directly Impact, Or Be Impacted By, The Scope Of This Project.	The Owner And Engineer. B. Indicate The Following On Each Shop Drawings Submitted:	3. Fiber To Be Installed Continuous Without Any Splices From MDF To MDF. A 30 Foot Service Loop Shall Be Provided At Terminal Location And Any Manhole Along The Route To Be Coiled Neatly And Secured To A Wall In The POE And MDF Location.
D. Any Item Indicated For Demolition Shall Be Removed, Inclusive Of Any Raceway, Boxes, Wiring, Source. If Entire Circuits Are Removed, Panel Schedules Shall Be Updated And Breakers Placed In The Contractor Shall Arrange All Required Inspections. D. Any Item Indicated For Demolition Shall Be Removed, Inclusive Of Any Raceway, Boxes, Wiring, Source. If Entire Circuits Are Removed, Panel Schedules Shall Be Updated And Breakers Placed In The Contract Shall Provided Inspections.	ne "OFF" Position. 2) Name Of Architect And Engineer	4. Coordinate All Labeling Requirements With TCNJ IT Department And Specifications. Each Cable Shall Be Labled At Each Termination, At Each Tap, Exposed At 15 Foot Intervals, At Each Cabinet / Rack / Panel, At Each Wall Penetration, In Each Manhole In And Out, Etc.
C. Contractor Shall Arrange All Required Inspections. Contract Shall Arrange All Required Inspections. Contractor With The Exception Of Specific Equipment And Apparatus Requested By The Owner And Relocated On The Drawings. Removed Equipment Shall Be Properly Disposed Of By The Contractor And State Codes.	d Engineer, Or As Noted To Be 4) Approval Stamp Of Prime Contractor or In Accordance With All Local	5. All New And Existing Cables And Terminations To Be Tested Upon Completed Installation And Termination. Testing Shall Be Bi-Directional For Optical Loss And OTDR (Tier 1 And Tier 2) To Confirm All Fibers Continuous And With Minimum Loss For Length And Connector Per EIA/TIA And BICSI Standards. Fiber Cable Installation Shall Be To The Requirements Of And Certified Under The
A. Proper Fire Protection Measures, Satisfactory To The Local Fire Department, Shall Be Taken When Welding Or Cutting With Torches Or Electric Arc. All Hot Work And Welding Work Will Conform To Chapter 35 Of The 2015 New Jersey Edition Of The International Fire Code.	C. The Contractor Must Review And Stamp All Shop Drawings Prior To Submission. Submittals Without The Contractor Stamp Will Be Returned Unchecked.	or's Approval Manufacturer's Extended Warranty Program. Contractor To Furnish Test Results And Manufacturer's Certification At Project Completion With Close Out Material.
B. Each Contractor Shall Be Responsible For All Cutting And Patching Of Walls And Floors Required As A Result Of Their Work. APPLICABLE CODES AND STANDARDS APPLICABLE CODES AND STANDARDS	D. Where A Submitted Item Is A Substitute For A Specified Item, Comply With Requirements For Substitutions. 2. It Is The Responsibility Of The Contractor To Make Every Attempt To Ensure Theroughness And Assuracy Of His Submit	ttals of Shop
C. All Penetrations Of Floors (Whether Or Not Fire Resistance Rated) And All Penetrations Of Fire Rated Walls Shall Be Firestopped. Refer To The Specification For Additional Requirements. The Entire Installation Shall Comply With All Local And State Codes Adopted Version At The Time Of Amendments To Said Codes, DCA And Other Authorities Having Jurisdiction.	f Project's start, Including 3. It Is The Responsibility Of The Contractor To Make Every Attempt To Ensure Thoroughness And Accuracy Of His Submit Drawings Are Not Approved Following A Maximum Of Two (2) Reviews, The Contractor Will Be Back-Charged For The Engin	neer's Effort.
D. Conduit, Ductbank, And Wiring Layouts Are Schematic Diagrams And Are Intended To Show General Arrangement, Size And Capacity, And Do Not Indicate Which Conduit Is Above Or Below The Other. All Offsets Are Not Necessarily Shown. Contractor	4. The Engineer's Approval Of Shop Drawings Shall Only Be Construed To Apply To General Layout And Conformance To The Design Concept Of The Project And For Compliance With The General Requirements Of The Contract	 General: A. Entire Installation Shall Comply With All Local And State Codes And Other Authorities Having Jurisdiction. Contractor
Shall Arrange And Coordinate The Work, Furnish Necessary Offsets And Fittings To Avoid Conflict With Other Mechanical And	Documents	Shall Secure And Schedule All Required Permits And Inspections For Their Work. 2. Fiber
	A. The Responsibility For Any Deviations From The Requirements Of The Contract Documents Shall Remain The Contractor's Unless He Has, In Writing, Specifically Called The Engineer's Attention To Such Deviations	A. Labeling Of Each Cable And Each Termination Will Be Required. This Includes The Labeling Scheme As Well As The Materials And Methods.
Shall Arrange And Coordinate The Work, Furnish Necessary Offsets And Fittings To Avoid Conflict With Other Mechanical And Electrical Services, Structural And Architectural Elements, And Underground Utilities And Infrastructure, Without Additional Cost To The Owner. If Areas Of Conflict Are Encountered, The Engineer Shall Be Notified And Contractor Recommendations Shall Be Submitted To The Engineer For Approval Before Work Has Begun. E. All Cost Associated With Rigging, Receiving And Storage Shall Be The Responsibility Of The Contractor. 2. International Fire Code 2015 3. National Electrical Code (NFPA 14, 20, 70, 72) 2014 Edition 4. National Fire Protection Association (NFPA) 13-2013.	At The Time Of Submission And Has Received The Engineer's Written Approval Of Such Deviations.	
Shall Arrange And Coordinate The Work, Furnish Necessary Offsets And Fittings To Avoid Conflict With Other Mechanical And Electrical Services, Structural And Architectural Elements, And Underground Utilities And Infrastructure, Without Additional Cost To The Owner. If Areas Of Conflict Are Encountered, The Engineer Shall Be Notified And Contractor Recommendations Shall Be Submitted To The Engineer For Approval Before Work Has Begun. E. All Cost Associated With Rigging, Receiving And Storage Shall Be The Responsibility Of The Contractor. F. Contractor Shall Provide All Necessary Miscellaneous Steel For The Support Of All Equipment And Conduit That Is Suspended From Slab, Steel, Wall, Trusswork, Etc., Or Anchored To Pads, Foundations, Frames, Etc. Shall Arrange And Coordinate The Work, Furnish Necessary Offsets And Fittings To Avoid Conflict With Other Mechanical And Electrical Pade (Nethodology 2015) Autional Fire Code 2015 National Electrical Code (NFPA 14, 20, 70, 72) 2014 Edition 4. National Fire Protection Association (NFPA) 13-2013. 5. International Mechanical Code, 2015 Edition. 6. ASHRAE 90.1 Energy Standards.	Αρμιοναί οι σασί μενιαμοίις.	B. Fiber Installation And Testing To Follow EIA/TIA and BICSI Standards.
Shall Arrange And Coordinate The Work, Furnish Necessary Offsets And Fittings To Avoid Conflict With Other Mechanical And Electrical Services, Structural And Architectural Elements, And Underground Utilities And Infrastructure, Without Additional Cost To The Owner. If Areas Of Conflict Are Encountered, The Engineer Shall Be Notified And Contractor Recommendations Shall Be Submitted To The Engineer For Approval Before Work Has Begun. E. All Cost Associated With Rigging, Receiving And Storage Shall Be The Responsibility Of The Contractor. F. Contractor Shall Provide All Necessary Miscellaneous Steel For The Support Of All Equipment And Conduit That Is Suspended From Slab, Steel, Wall, Trusswork, Etc., Or Anchored To Pads, Foundations, Frames, Etc. 1. International Fire Code 2015 3. National Electrical Code (NFPA 14, 20, 70, 72) 2014 Edition 4. National Fire Protection Association (NFPA) 13-2013. 5. International Mechanical Code, 2015 Edition.	5. Submission Format	C. Basis Of Design Shall Be Corning For Fiber And Associated Hardware.
Shall Arrange And Coordinate The Work, Furnish Necessary Offsets And Fittings To Avoid Conflict With Other Mechanical And Electrical Services, Structural And Architectural Elements, And Underground Utilities And Infrastructure, Without Additional Cost To The Owner. If Areas Of Conflict Are Encountered, The Engineer Shall Be Notified And Contractor Recommendations Shall Be Submitted To The Engineer For Approval Before Work Has Begun. E. All Cost Associated With Rigging, Receiving And Storage Shall Be The Responsibility Of The Contractor. F. Contractor Shall Provide All Necessary Miscellaneous Steel For The Support Of All Equipment And Conduit That Is Suspended From Slab, Steel, Wall, Trusswork, Etc., Or Anchored To Pads, Foundations, Frames, Etc. G. All Demolition Work Shall Comply With Chapter 33 Of The 2015 New Jersey Edition Of The International Fire Code: Fire Safety International Fire Code 2015 3. National Electrical Code (NFPA 14, 20, 70, 72) 2014 Edition 4. National Fire Protection Association (NFPA) 13-2013. 5. International Mechanical Code, 2015 Edition. 6. ASHRAE 90.1 Energy Standards.	5. Submission Format dlb associates TCNJ - CAMPUS FIRE A	C. Basis Of Design Shall Be Corning For Fiber And Associated Hardware. title dwg. no.

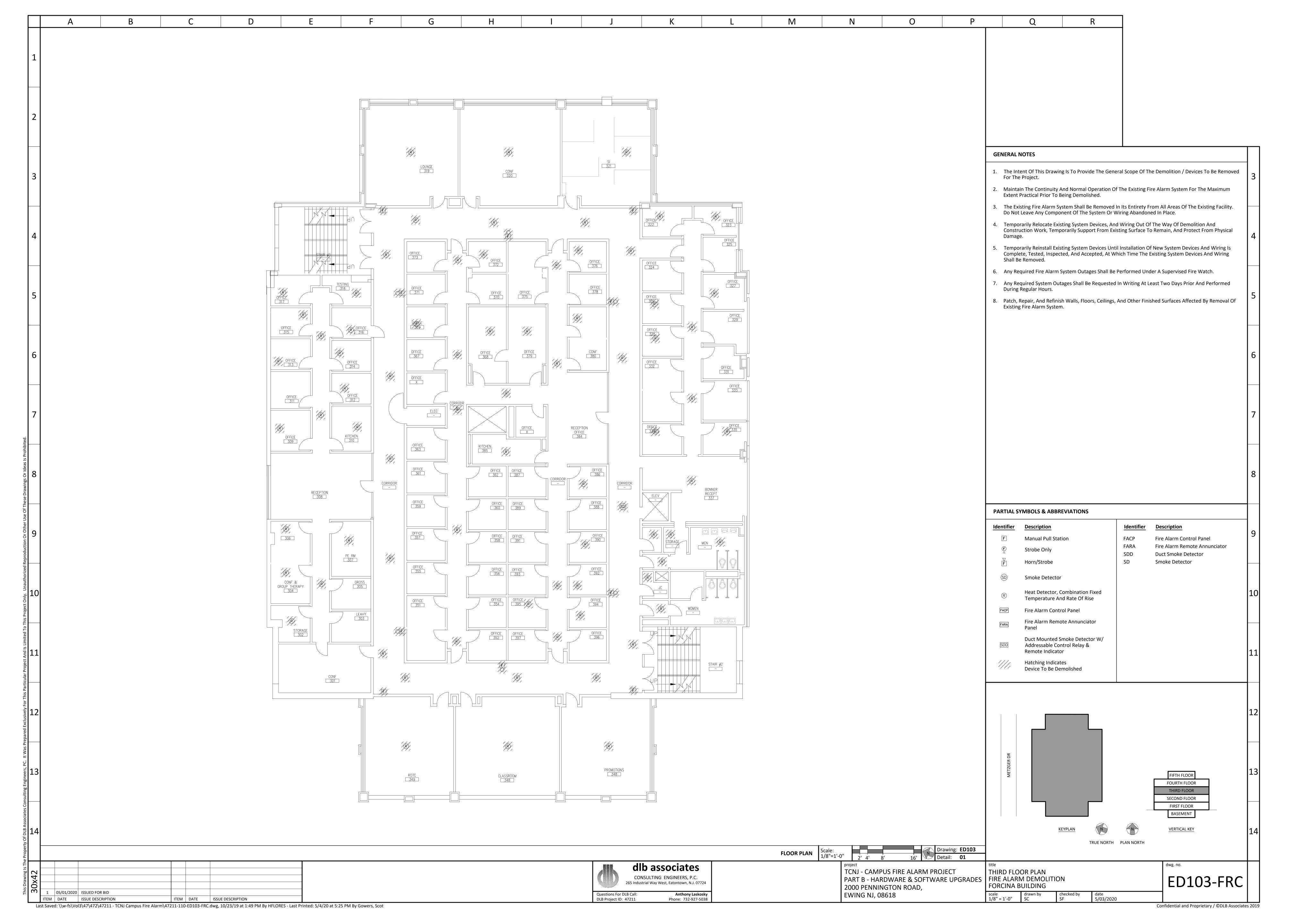


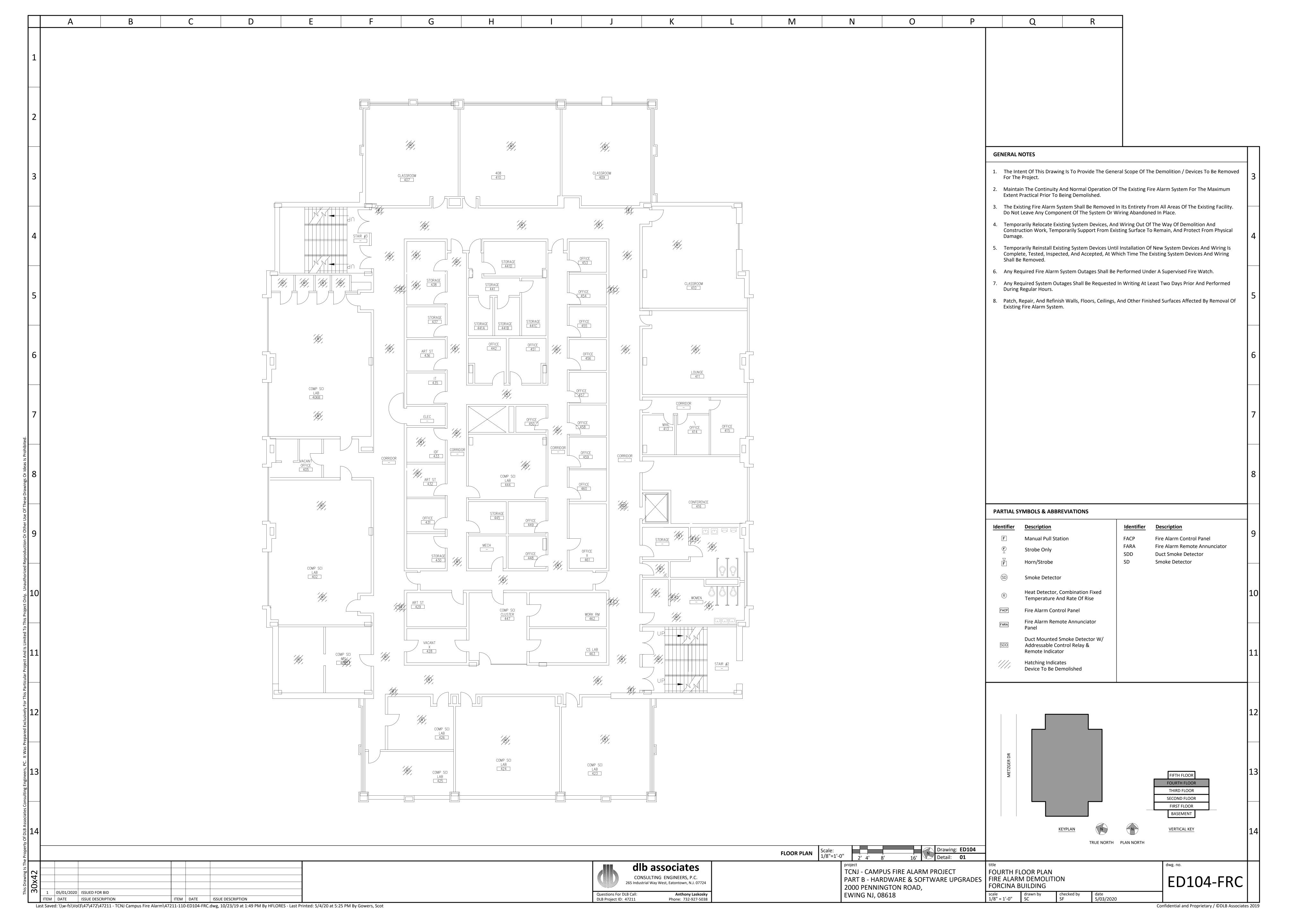
A B	C D	E F G H	I J K L	M N O P	QR
	•	PROJECT OVERVIEW	SPECIAL EMPHASIS, CONCERNS, AND LIMITATIONS	DESIGN CRITERIA & ADDITIONAL PROJECT REQUIREMENTS	
		Project Description:	Special Emphasis, Concerns & Limitations	Applicable Codes And References	
		A. The Project Consists Of The Replacement Of The Existing Fire Alarm System In The Building With A New Addressable Fire Alarm System. The System Is Being Replaced Due To Its Age And Lack Of Availability Of Replacement Parts.	 When Replacing The Existing FACP It Is The Contractors Responsibility To Transfer All Systems That Are Currently reporting To The Existing Panel. There Are Certain Panels That Monitor Accessory Systems Such As Security, Fire Shutters Clean Agent Systems, CO Detectors, Access 	The Entire Installation Shall Comply With All Local And State Codes, Including Amendments To Said Codes, And Other Authorities Having Jurisdiction.	
		2. Overview:	Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems And Intermediary Devices Required To Integrate Said Systems On Their Shop Drawings.	 International Building Code, 2015 Edition (NJ Edition) International Fire Code, 2015 Edition 	
		A. The Following Is A Brief Scope Of The Work For This Project (Not Intended To Be All Inclusive):	2. Communication A. The Engineer Shall Be Notified Immediately Upon Discovery Of A Problem Or Conflict	3. International Mechanical Code, 2015 Edition	
		 New Addressable Fire Alarm System. Fire Alarm Control Panel Will Be Located In the, And Annunciator Panel Located In the Front Entry. 	A. The Engineer Shall Be Notified Immediately Upon Discovery Of A Problem Or Conflict. Contractor Shall Promptly Identify One Or More Proposed Solutions But Shall Not Proceed Until So Authorized.	4. NFPA 72, 2013	
		2) Fire Alarm Shop Drawings Shall Meet The Requirements Of IBC 2015 (NJ Edition)	3. Construction	5. National Electrical Code, 2014 Edition 6. Natural Section Code (Subspensor & Robabilitation Subsed)	
		Section 907.1.2 And Shall Be Submitted For Review And Approval Prior To System Installation.	A. Submittals (Shop Drawings) Shall Be Provided For Each Piece Of Purchased Equipment. Ensure Thoroughness And Accuracy Of The Submittals. The Contractor Shall Provide A	6. New Jersey Administrative Code (Subchapter 6 Rehabilitation Subcode)	DRAWING LIST
		3) Removal And Disposal Of Existing Fire Alarm System. 4) Patch Banair And Befinish Walls Floors Cailings And Other Finished Surfaces.	Stamp On The Shop Drawings Stating That They Conform To The Specifications.	Seismic Requirements 1. The Design And Application Of Seismic Postroints Shall Be In Accordance With The Following	No. Drawing Title
		4) Patch, Repair, And Refinish Walls, Floors, Ceilings And Other Finished Surfaces Affected By Removal Of Existing System.	 B. Long Lead Items Must Be Ordered Promptly To Ensure Timely Deliveries. C. All Work Shall Be Performed During Normal Working Hours. 3. Contractors' Responsibilities 	 The Design And Application Of Seismic Restraints Shall Be In Accordance With The Following Criteria, As Listed In Chapter 16 Of The 2015 International Building Code. A. Determination Of Design Spectral Response Acceleration: Short Periods: 0.245 	
			A. Before Submitting Their Bid, The Contractor Shall Visit The Job Site And Examine And Fully	One-second Periods: 0.105	
		ENVIRONMENTAL SURVEY OBSERVATIONS	Acquaint Themselves With The Existing Job Conditions. B. The Contractor Shall Furnish And Install All Supports, Hangers, Boxes, Or Panels As	B. Seismic Occupancy Category: Section 1604.5: Risk Category II Seismic Design Category: B	
		The Observations Listed Below Were Compiled Based On Information From TCNJ And Visual Field	Required, And Shall Perform Demolition And Modification Work As Required, To Make A Complete And Operable System Without Additional Cost To Owner.	Electrical Components / Systems In Buildings That Are Assigned To Seismic Design Category A	ELECTRICAL
		Inspections At Each Building. Full Building Environmental Surveys Were Not Performed Under This Scope And Underground Conditions Are Unknown. Contractor Shall Thoroughly Investigate Any	C. Contractor Shall Arrange And Pay For All Permits, Certificates, Inspections, Etc. And Pay All Fees Levied By State, Local And Municipal Authorities Having Jurisdiction Over Work Done	or B (ASCE 13.1.4.2) Are Exempt From Seismic Requirements.	E000 COVER SHEET E001 GENERAL INFORMATION SHEET
		Proposed Routing For Environmental Hazards. 1. Green Hall And Recreation Center Both Have Known Areas Of Asbestos In Certain Above Ceiling	Under This Contract.		E002 PHOTO OVERVIEW
		Areas. 2. Most Buildings Have Lead-Based Paint In One Form Or Another And Lead-Safe Work Protocols	D. Contractor Shall Provide All Required Temporary Utilities And Pay All Associated Fees And Operating Costs.		ED101 BASEMENT AND FIRST FLOOR PLANS - FIRE ALARM DEMOLITION ED102 SECOND FLOOR PLAN - FIRE ALARM DEMOLITION
		Shall Be Incorporated Into Standard Work Procedures For This Project Including, But Not Limited To, The Following:	E. Any Work By Any Party As A Result Of Failure To Familiarize Themselves Or Coordinate Work Is The Responsibility Of The Contractor And Shall Be Provided At No Cost To The Owner.		ED103 THIRD FLOOR PLAN - FIRE ALARM DEMOLITION
		A. Contractor To Be EPA Certified In Lead-Based Paint Safe Work Practices and Train All Workers In Said Practices.	F. Make Final Connections, Perform Acceptance Testing, And Coordinate With NJ	ELECTRICAL GENERAL NOTES	ED104 FOURTH FLOOR PLAN - FIRE ALARM DEMOLITION ED105 FIFTH FLOOR PLAN - FIRE ALARM DEMOLITION
		B. Work Area Containment To Be Used To Prevent Dust And Debris From Leaving The Work	Deptartment of Community Affairs For Device Verifications For A Complete And Operational System Upon Completion. Contractor Shall Be Present And Provide Assistance As Necessary For Device Verifications With Fire Marshal And Also Include All Associated	Electrical Wiring	E101 BASEMENT AND FIRST FLOOR PLANS - FIRE ALARM
		Place. C. Thorough Cleaning Followed By Cleaning Verification To Minimize Lead-Based Paint Hazard	Costs For This.	1. In General, Branch Circuit Wiring Is Not Shown On The Plan Drawings.	E102 SECOND FLOOR PLAN - FIRE ALARM E103 THIRD FLOOR PLAN - FIRE ALARM
		Exposures.	G. Final Locations Of All New Devices And Equipment Shall Be Field Coordinated With Proposed Equipment And Device Ratings, Existing Field Conditions And With Other Existing Installations.	2. The Minimum Branch Circuit Wiring Size Shall Be 2#12, #12 Ground In 3/4 Inch Conduit Unless Otherwise Noted.	E103 THIRD FLOOR PLAN - FIRE ALARM E104 FOURTH FLOOR PLAN - FIRE ALARM
		D. No Eating Or Drinking In The Work Area.E. Post Signs Clearly Identifying Work Area.	H. Make Every Attempt To Ensure Thoroughness And Accuracy Of The Submittals. If Shop	Wiring Methods	E105 FIFTH FLOOR PLAN - FIRE ALARM
		F. Provide Asbestos Testing In Any Suspect Areas.	Drawings Are Not Approved Following A Maximum Of Two (2) Reviews, The Contractor Will Be Back-charged For The Engineer's Effort.	1. General A. In Finished Areas, Conceal All Wiring In Building Walls, Floors, And Above Finished Ceilings.	E200 SCHEDULES AND DETAILS
			I. Contractor Shall Furnish And Install Access Doors For Access To Any Above Ceiling Detectors Or Devices Which Are Above Gypsum Board Ceilings Or Other Non-Accessible Ceiling Spaces.	A. In Finished Areas, Conceal All Wiring In Building Walls, Floors, And Above Finished Ceilings. Wiring May Be Run Exposed In Mechanical/Electrical Equipment Rooms, Electrical Closets, Utility Rooms.	
				B. For Devices Mounted To Block Walls : Approved Surface Mounted Raceway May Be Utilized (Such As Wiremold).	
			4. Limitations On DowntimeA. A Schedule Of Interruptions / Shutdowns Shall Be Submitted To The Engineer And Owner.	C. Final Connections To Mechanical Equipment, Lighting Fixtures, Motors, Transformers,	KEY PARTICIPANTS & ROLES
			Each Interruption Shall Be Approved By The Owner With Written Consent Before Any Interruption Is Permitted.	Instruments, And Control Devices Shall Be Flexible Conduit To Minimize Vibration Transmission.	Electrical Engineer DLB Associates, PC Client The College Of New Jersey
			B. Contractor Shall Furnish Fire Watch During Any Fire Alarm Or Fire Protection Interruptions.	2. Indoors (Unclassified Areas) A. Exposed: EMT Conduit With Steel Set Scrow Eittings, Unless Otherwise Noted	265 Industrial Way West 2000 Pennington Road Eatontown, NJ 07724 Ewing, NJ 08628-0718
			PROJECT GENERAL NOTES	A. Exposed: EMT Conduit With Steel Set Screw Fittings, Unless Otherwise Noted B. In Dry Walls/Above Ceilings: EMT Conduit With Steel Set Screw Fittings (Type MC	Contact: Anthony Laskosky - Project Manager Contact: Mumtaz Makhdomi Tel: (732) 927-5038 Email: cplanconsult2@tcnj.edu
			General Requirements	Clad Cable May Be Used For 1 Pole, 15 And 20 Amp Branch Circuits)	Phone: (609)-771-2372
			1. General:	 Equipment Grounding An Insulated (Green) Equipment Ground Conductor(s) Shall Be Provided In All Branch Circuits. 	
			A. All Work Shall Be Performed In A Neat Workmanlike Manner.	Utilizing The Conduit As The Equipment Grounding Conductor Is Not Acceptable. Electrical Enclosures And Terminations	
			B. All Exposed Cables Of Any Type Within A Plenum Ceiling Space Shall Be Plenum Rated.	Electrical Enclosures And Terminations Electrical Equipment Enclosures Shall Be Provided As Listed Below Unless Otherwise Noted.	
			C. "Furnish And Install" Or "Provide" Means To Supply, Erect, Install, And Connect Up To Complete For Readiness For Regular Operation, The Particular Work Referred To.	A. Indoors Unclassified Areas NEMA 1 B. Indoors Classified 'Damp' NEMA 1	
			 D. All Temporary Construction Services Shall Be Determined / Arranged By The Contractor And Included In The Bid Price. 	B. Indoors Classified 'Damp' NEMA 1 C. Outdoors NEMA 3R	DOCUMENT ORGANIZATION
			2. Coordination:	2. Electrical Terminations (Lugs, Terminals, Etc.) On All Equipment Shall Be Rated For Use With 75 Degree Celsius Conductors.	Miscellaneous
			A. Contractors Shall Coordinate Their Work With The Existing Field Conditions. B. Contractor Shall Visit The Joh Site And Verify Existing Field Conditions Prior To Submission.	3. Firestopping	1. The Terms 'Sheet', 'Plan', And 'Drawing' Are Used Interchangeably.
			 B. Contractor Shall Visit The Job Site And Verify Existing Field Conditions Prior To Submission Of Bid. 	A. Provide UL Listed Fire Stopping Assemblies For Raceways And Wire Passing Through Floor Slots, Sleeves Or Openings In Fire-Partitioned Rooms.	 For Items That Are Plans, Details, And Other Graphic Items, Titles Are At The Bottom Of The Described. For Items That Are Predominately Text Such As Schedules, Titles Are At The Top
			C. Contractor Shall Secure And Pay For All Required Permits And Shall Arrange All Required Inspections.	B. Provide Sealant For Raceways And Wire Passing Through Floor Slots, Sleeves Or Openings In Non-Fire-Partitioned Rooms	The Item Described.
			3. Installation / Demolition:	FIRE ALARM	 Shading Of An Area Often Is Used To Emphasize An Area To The Reader. Some Of The Pos Purposes Of This Emphasis Can Be:
			 A. Contractor Shall Provide All Necessary Miscellaneous Steel For The Support Of All Equipment Suspended From Slab, Steel, Wall, Or Trusswork. 	1. Fire Alarm Must Be Routed In Its Own Separate Pathway And Cannot Share Pathway With Any Other Infrastructure.	
		B. Proper Fire Protection Measures, Satisfactory To The Local Fire Department, Shall Be Taken When Welding Or Cutting With Torches Or Electric Arc.	2. Provide Ceiling Mounted Smoke Detector At Each Fire Alarm Control Panel, Remote Power Panel, And Remote Annunciation Panel.	B. Defining A Topic's Boundary Without Conflicting With Other LineworkC. Help To Emphasize The Existence Of A Part Plan Of The Area	
			C. Contractor Shall Be Responsible For All Cutting And Patching Of Walls, Ceilings, Roofs, And Floors Required As A Result Of Their Work.	3. Duct Smoke Detectors Shall Be Furnished And Installed As Part Of The Electrical Work.	D. Differentiate Line Work In Congested Areas
			D. All Penetrations Of Floors (Whether Or Not Fire Resistance Rated) And All Penetrations Of	A. Duct Mounted Smoke Detectors Shall Be Wired To Shut Down The Associated Unit And Annunciate At The Fire Alarm Control Panel.	4. Printing Of The Plans Is Often Reduced, So A Graphic Scale Is Provided On Each Sheet.
			Fire Rated Walls Shall Be Firestopped. Refer To The Specification For Additional Requirements.	B. Remote Reset Capability Shall Be Provided For Each Detector. Coordinate Location Of Test Switches In The Field With Owner So That They Are Accessible. Switches Shall Be Provided	How Notes Are Used
			E. If Areas Of Conflict Are Encountered, The Engineer Shall Be Notified And Contractors Recommendations Shall Be Submitted To The Engineer For Approval Before Work Has Begun.	With Identification Label.	 General Notes Are One Or More Notes In List Form Which Are Not Indicated Specifically Or Plan, Section, Elevation, Or Detail.
			Begun. 4. Seismic:	4. Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Shall Be Determined By The Electrical Contractor In Accordance With Field Conditions And The Following:	2. Key Notes Are Used In Lieu Of Standard Notes Where They Improve Readability, Key Notes
			A. Provide Seismic Bracing And Anchoring Of All Electrical And Fire Protection Equipment In Accordance With The Codes And Seismic Design Criteria Listed In These Documents.	A. Ceiling Mounted Devices Shall Be Coordinated With Suspended Ceiling, Lighting Fixtures,	Gathered Together And Listed Collectively On The Drawings On Which They Are Located.
			B. Provide Structural Tests And Special Inspections In Accordance With The Building Code	Diffusers, Ductwork, Spinkler Heads, Etc. And Per NFPA Requirements. B. Wall Mounted Devices Shall Be Coordinated With Other Wall Mounted Devices, Wall	Addenda & Revisions
			Listed In The Applicable Codes And References Section Of These Documents.	Construction Type, Etc. And NFPA And IBC Requirements. Whenever Possible Devices Shall Be Mounted Flush Or Semi Flush. Surface Mounted Devices Will Be Permitted Where	Some Addenda And Revisions Are Identified On The Drawings Using A 1. The Number In The Triangle Links To The Revision Block In The Title Block Section.
				Approved By Engineer And Owner.	Sometimes The Most Recent Change Is Clouded To Provide Increased Clarity
			dlb associates	project title TCNJ - CAMPUS FIRE ALARM PROJECT GEN	dwg. no.
			CONSULTING ENGINEERS, P.C. 265 Industrial Way West, Eatontown, N.J. 07724	PART B - HARDWARE & SOFTWARE UPGRADES FOR	IERAL INFORMATION SHEET CINA BUILDING E001-FF
			Questions For DLB Call: Anthony Laskosky	2000 PENNINGTON ROAD, EWING NJ, 08618	drawn by checked by date SC SF 5/03/2020

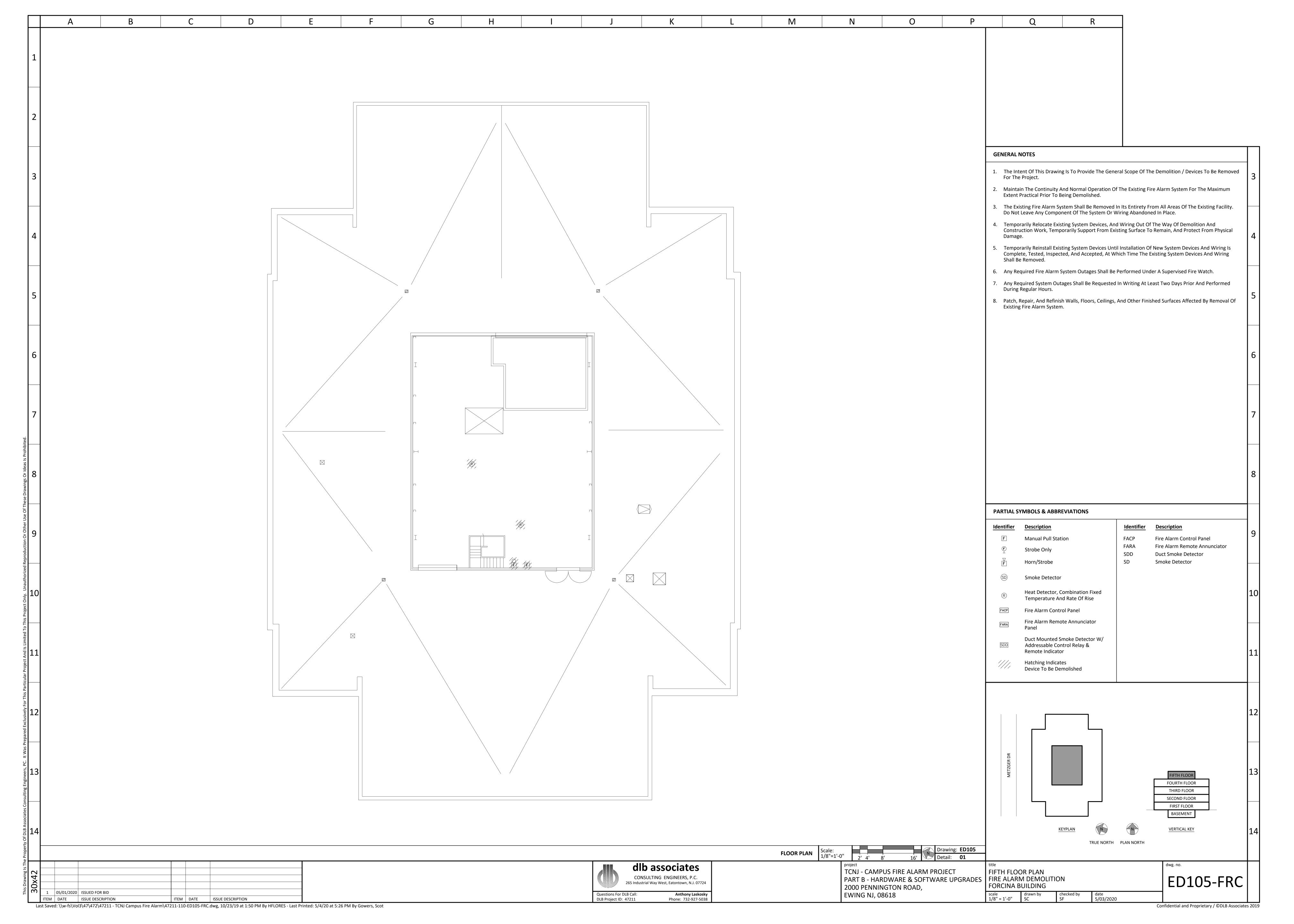


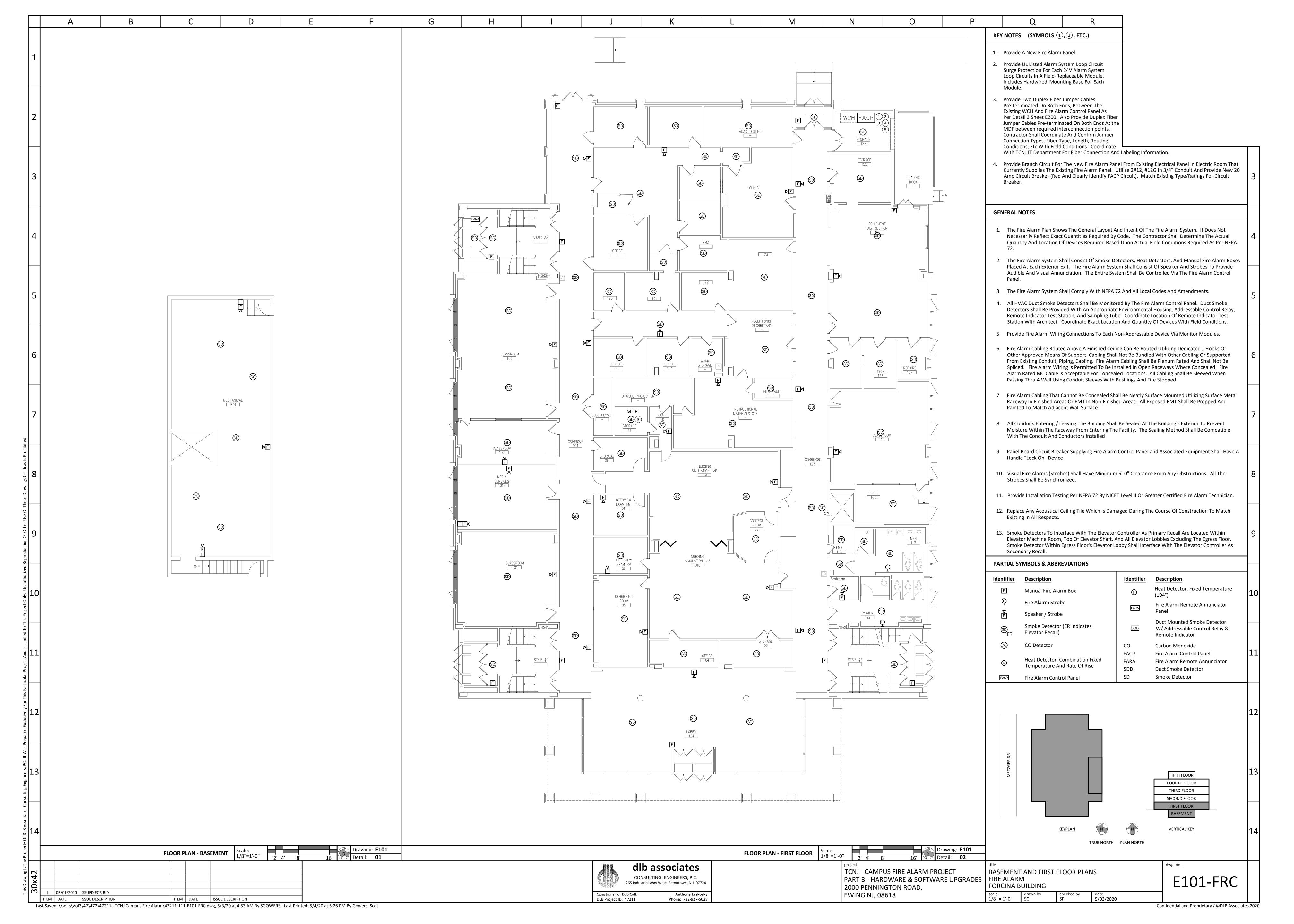


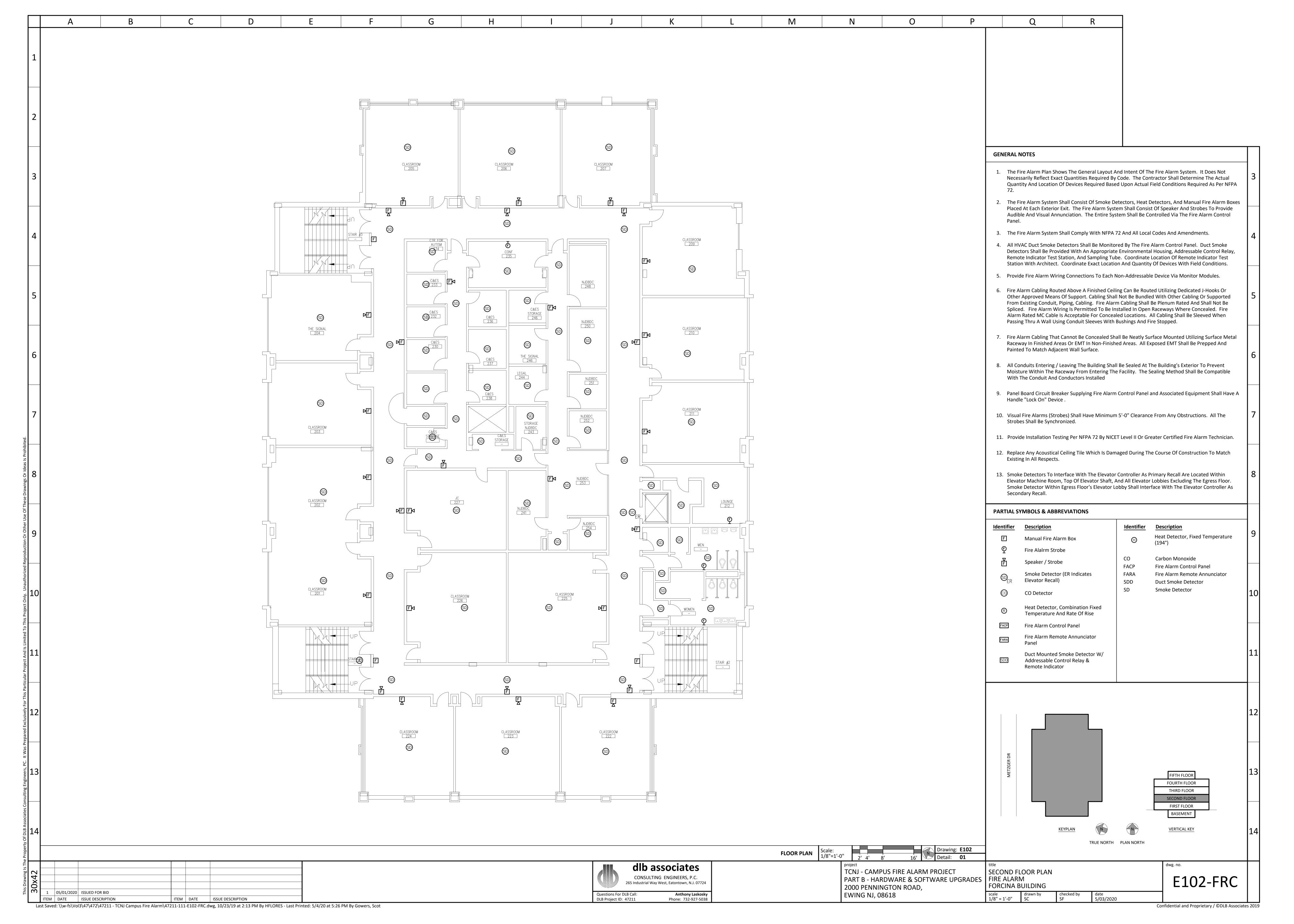


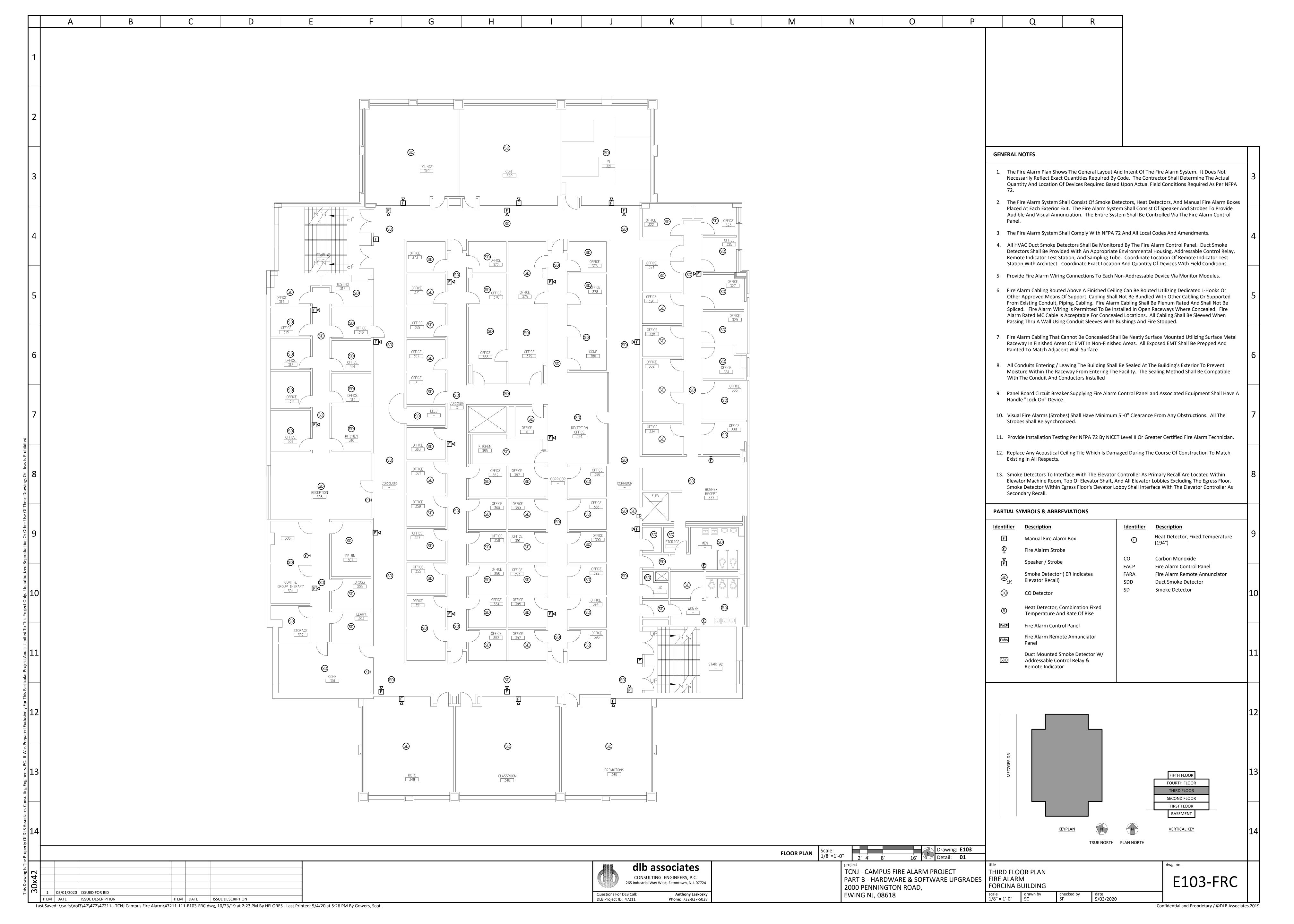


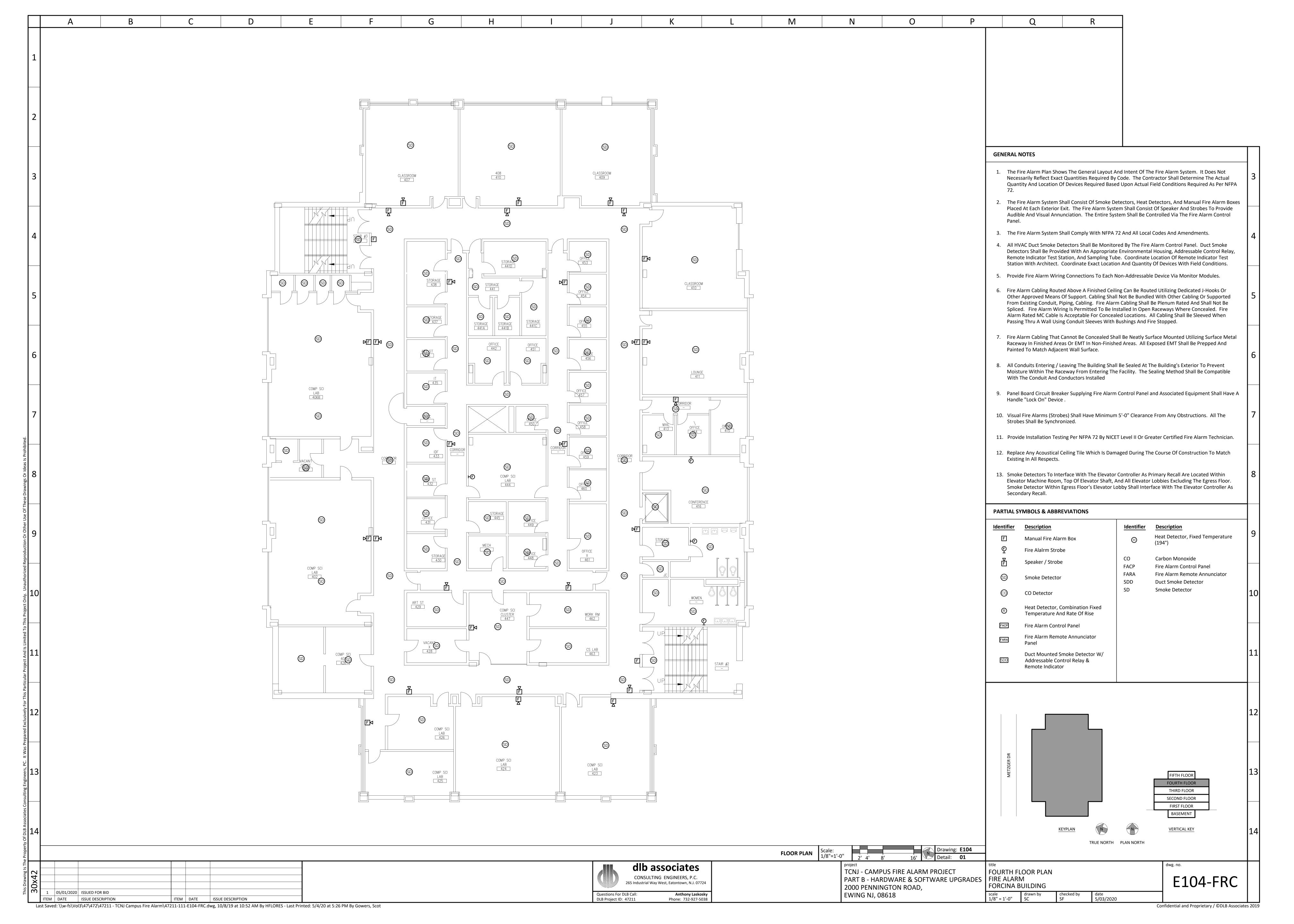


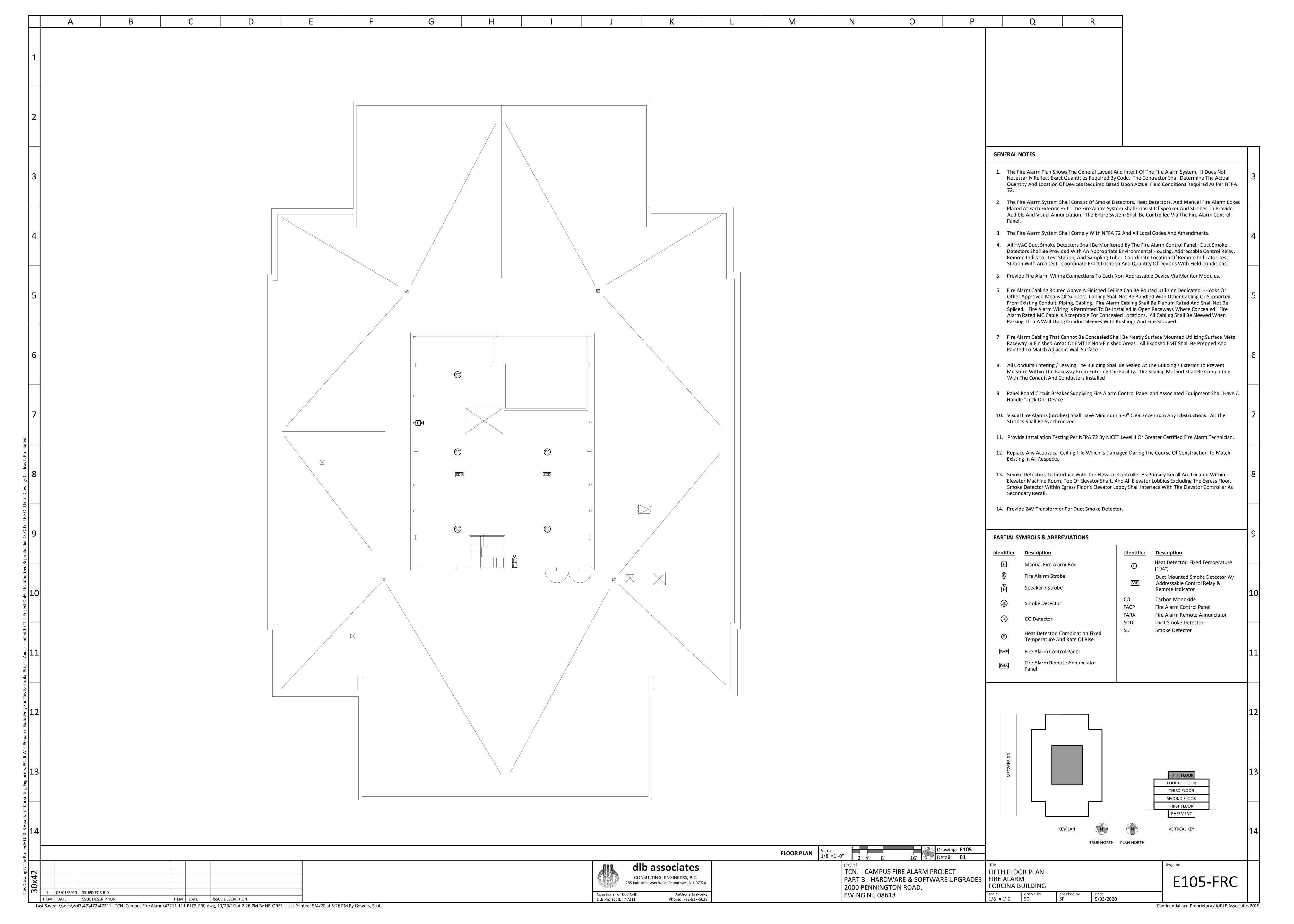


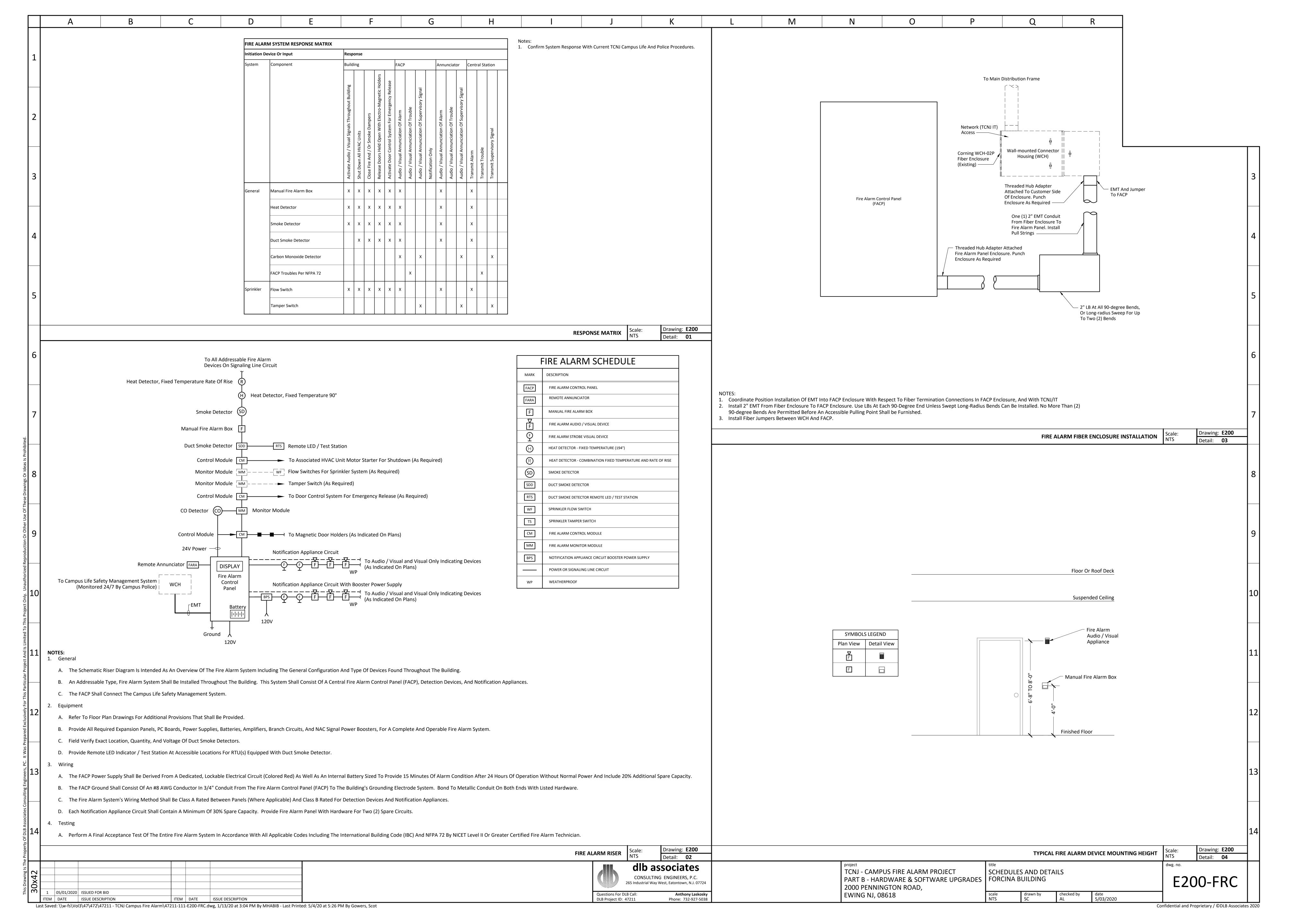












A B C D	E F G H	I J K L	M N O P	Q R
	PROJECT OVERVIEW	SPECIAL EMPHASIS, CONCERNS, AND LIMITATIONS	DESIGN CRITERIA & ADDITIONAL PROJECT REQUIREMENTS	
	 Project Description: A. The Project Consists Of The Replacement Of The Existing Fire Alarm System In The Building With A New Addressable Fire Alarm System. The System Is Being Replaced Due To Its Age And Lack Of Availability Of Replacement Parts. Overview: 	 Special Emphasis, Concerns & Limitations When Replacing The Existing FACP It Is The Contractors Responsibility To Transfer All Systems That Are Currently reporting To The Existing Panel. There Are Certain Panels That Monitor Accessory Systems Such As Security, Fire Shutters Clean Agent Systems, CO Detectors, Access Control Etc. Contractor Shall Survey The Buildings And Include All Accessory Systems And Intermediary Devices Required To Integrate Said Systems On Their Shop Drawings. 	Applicable Codes And References The Entire Installation Shall Comply With All Local And State Codes, Including Amendments To Said Codes, And Other Authorities Having Jurisdiction. 1. International Building Code, 2015 Edition (NJ Edition)	
	 A. The Following Is A Brief Overview Of The Existing System (Not Intended To Be All Inclusive): 1) Fire Alarm Control Panel Currently Located In The Electrical Room. 2) Audible Devices Located In The Corridors, Shops, And Office Areas. 	 Communication A. The Engineer Shall Be Notified Immediately Upon Discovery Of A Problem Or Conflict. Contractor Shall Promptly Identify One Or More Proposed Solutions But Shall Not Proceed Until So Authorized. 	 International Fire Code, 2015 Edition International Mechanical Code, 2015 Edition NFPA 72, 2013 National Electrical Code, 2014 Edition 	
	B. The Following Is A Brief Scope Of The Work For This Project (Not Intended To Be All Inclusive):1) New Addressable Fire Alarm System. Fire Alarm Control Panel Will Be Located In The	3. Construction A. Submittals (Shop Drawings) Shall Be Provided For Each Piece Of Purchased Equipment. Ensure Thoroughness And Accuracy Of The Submittals. The Contractor Shall Provide A Stamp On The Shop Drawings Stating That They Conform To The Specifications.	6. New Jersey Administrative Code (Subchapter 6 Rehabilitation Subcode) Seismic Requirements	DRAWING LIST
	 2) Fire Alarm Shop Drawings Shall Meet The Requirements Of IBC 2015 (NJ Edition) Section 907.1.2 And Shall Be Submitted For Review And Approval Prior To System Installation. 	B. Long Lead Items Must Be Ordered Promptly To Ensure Timely Deliveries. C. All Work Shall Be Performed During Normal Working Hours.	 The Design And Application Of Seismic Restraints Shall Be In Accordance With The Following Criteria, As Listed In Chapter 16 Of The 2015 International Building Code. Determination Of Design Spectral Response Acceleration: 	No. Drawing Title
	 Removal And Disposal Of Existing Fire Alarm System. Patch, Repair, And Refinish Walls, Floors, Ceilings And Other Finished Surfaces Affected By Removal Of Existing System. 	 3. Contractors' Responsibilities A. Before Submitting Their Bid, The Contractor Shall Visit The Job Site And Examine And Fully Acquaint Themselves With The Existing Job Conditions. B. The Contractor Shall Furnish And Install All Supports, Hangers, Boxes, Or Panels As Required, And Shall Perform Demolition And Modification Work As Required, To Make A Complete And Operable System Without Additional Cost To Owner. C. Contractor Shall Arrange And Pay For All Permits, Certificates, Inspections, Etc. And Pay All Face Levil and Development Cost To Owner Work Dane 	Short Periods: 0.245 One-second Periods: 0.105 B. Seismic Occupancy Category: Section 1604.5: Risk Category II Seismic Design Category: B 2. Electrical Components / Systems In Buildings That Are Assigned To Seismic Design Category A or B (ASCE 13.1.4.2) Are Exempt From Seismic Requirements.	ELECTRICAL E000 COVER SHEET E001 GENERAL INFORMATION SHEET
		 Fees Levied By State, Local And Municipal Authorities Having Jurisdiction Over Work Done Under This Contract. D. Contractor Shall Provide All Required Temporary Utilities And Pay All Associated Fees And Operating Costs. E. Any Work By Any Party As A Result Of Failure To Familiarize Themselves Or Coordinate Work Is The Responsibility Of The Contractor And Shall Be Provided At No Cost To The Owner. 	ELECTRICAL GENERAL NOTES	E002 PHOTO OVERVIEW ED101 DEMOLITION FLOOR PLAN - FIRE ALARM E101 FLOOR PLAN - FIRE ALARM E200 SCHEDULES AND DETAILS KEY PARTICIPANTS & ROLES
		 F. Make Final Connections, Perform Acceptance Testing, And Coordinate With NJ Department Of Community Affairs For Device Verifications For A Complete And Operational System Upon Completion. Contractor Shall Be Present And Provide Assistance As Necessary For Device Verifications With Fire Marshal And Also Include All Associated Costs For This. G. Final Locations Of All New Devices And Equipment Shall Be Field Coordinated With Proposed Equipment And Device Ratings, Existing Field Conditions And With Other Existing Installations. H. Make Every Attempt To Ensure Thoroughness And Accuracy Of The Submittals. If Shop 	 Electrical Wiring 1. In General, Branch Circuit Wiring Is Not Shown On The Plan Drawings. 2. The Minimum Branch Circuit Wiring Size Shall Be 2#12, #12 Ground In 3/4 Inch Conduit Unless Otherwise Noted. Wiring Methods 	Electrical Engineer DLB Associates, PC 265 Industrial Way West Eatontown, NJ 07724 Contact: Anthony Laskosky - Project Manager Tel: (732) 927-5038 Electrical Engineer The College Of New Jersey 2000 Pennington Road Ewing, NJ 08628-0718 Contact: Mumtaz Makhdomi Email: cplanconsult2@tcnj.edu Phone: (609)-771-2372
		Drawings Are Not Approved Following A Maximum Of Two (2) Reviews, The Contractor Will Be Back-charged For The Engineer's Effort. I. Contractor Shall Furnish And Install Access Doors For Access To Any Above Ceiling Detectors Or Devices Which Are Above Gypsum Board Ceilings Or Other Non-Accessible Ceiling Spaces. 4. Limitations On Downtime	 General A. In Finished Areas, Conceal All Wiring In Building Walls, Floors, And Above Finished Ceilings. Wiring May Be Run Exposed In Mechanical/Electrical Equipment Rooms, Electrical Closets, Utility Rooms. B. For Devices Mounted To Block Walls: Approved Surface Mounted Raceway May Be Utilized. 	
		 A. A Schedule Of Interruptions / Shutdowns Shall Be Submitted To The Engineer And Owner. Each Interruption Shall Be Approved By The Owner With Written Consent Before Any Interruption Is Permitted. B. Contractor Shall Furnish Fire Watch During Any Fire Alarm Or Fire Protection Interruptions. 	 C. Final Connections To Mechanical Equipment, Lighting Fixtures, Motors, Transformers, Instruments, And Control Devices Shall Be Flexible Conduit To Minimize Vibration Transmission. 2. Indoors (Unclassified Areas) A. Exposed: EMT Conduit With Steel Set Screw Fittings, Unless Otherwise Noted 	DOCUMENT ORGANIZATION Miscellaneous
		PROJECT GENERAL NOTES	B. In Dry Walls/Above Ceilings: EMT Conduit With Steel Set Screw Fittings (Type MC Clad Cable May Be Used For 1 Pole, 15 And 20 Amp Branch Circuits)	 The Terms 'Sheet', 'Plan', And 'Drawing' Are Used Interchangeably. For Items That Are Plans, Details, And Other Graphic Items, Titles Are At The Bottom Opescribed. For Items That Are Predominately Text Such As Schedules, Titles Are At The
		General Requirements 1. General:	 3. Outdoors (Including Unconditioned Covered Areas) A. Above Ground: RGS Threaded Conduit B. Final Connections: Liquid-Tight Flexible Conduit 	The Item Described. 3. Shading Of An Area Often Is Used To Emphasize An Area To The Reader. Some Of The Purposes Of This Emphasis Can Be:
		 A. All Work Shall Be Performed In A Neat Workmanlike Manner. B. All Exposed Cables Of Any Type Within A Plenum Ceiling Space Shall Be Plenum Rated. C. "Furnish And Install" Or "Provide" Means To Supply, Erect, Install, And Connect Up To Complete For Readiness For Regular Operation, The Particular Work Referred To. D. All Temporary Construction Services Shall Be Determined / Arranged By The Contractor 	Equipment Grounding 1. An Insulated (Green) Equipment Ground Conductor(s) Shall Be Provided In All Branch Circuits. Utilizing The Conduit As The Equipment Grounding Conductor Is Not Acceptable. Electrical Enclosures And Terminations	 A. Identify Major Pieces Of Equipment B. Defining A Topic's Boundary Without Conflicting With Other Linework C. Help To Emphasize The Existence Of A Part Plan Of The Area D. Differentiate Line Work In Congested Areas
		 And Included In The Bid Price. Coordination: A. Contractors Shall Coordinate Their Work With The Existing Field Conditions. B. Contractor Shall Visit The Job Site And Verify Existing Field Conditions Prior To Submission 	1. Electrical Equipment Enclosures Shall Be Provided As Listed Below Unless Otherwise Noted. A. Indoors Unclassified Areas NEMA 1 B. Indoors Classified 'Damp' NEMA 1 C. Outdoors NEMA 3R 2. Electrical Terminations (Lugs Terminals Etc.) On All Equipment Shall Be Pated For Use With 75	4. Printing Of The Plans Is Often Reduced, So A Graphic Scale Is Provided On Each Sheet. How Notes Are Used
		Of Bid. C. Contractor Shall Secure And Pay For All Required Permits And Shall Arrange All Required Inspections. 3. Installation / Demolition:	 Electrical Terminations (Lugs, Terminals, Etc.) On All Equipment Shall Be Rated For Use With 75 Degree Celsius Conductors. Firestopping A. Provide UL Listed Fire Stopping Assemblies For Raceways And Wire Passing Through Floor Slots, Sleeves Or Openings In Fire-Partitioned Rooms. 	 General Notes Are One Or More Notes In List Form Which Are Not Indicated Specifica Plan, Section, Elevation, Or Detail. Key Notes Are Used In Lieu Of Standard Notes Where They Improve Readability, Key Notered Together And Listed Collectively On The Drawings On Which They Are Locat
		 A. Contractor Shall Provide All Necessary Miscellaneous Steel For The Support Of All Equipment Suspended From Slab, Steel, Wall, Or Trusswork. B. Proper Fire Protection Measures, Satisfactory To The Local Fire Department, Shall Be Taken When Welding Or Cutting With Torches Or Electric Arc. C. Contractor Shall Be Responsible For All Cutting And Patching Of Walls, Ceilings, Roofs, And 	B. Provide Sealant For Raceways And Wire Passing Through Floor Slots, Sleeves Or Openings In Non-Fire-Partitioned Rooms FIRE ALARM 1. Fire Alarm Must Be Routed In Its Own Separate Pathway And Cannot Share Pathway With Any	Addenda & Revisions Some Addenda And Revisions Are Identified On The Drawings Using A 1. The Number Triangle Links To The Revision Block In The Title Block Section. Sometimes The Most Recent Change Is Clouded To Provide Increased Classics
		 Contractor shall be Responsible For All Cutting And Patching Of Walls, Cellings, Roofs, And Floors Required As A Result Of Their Work. D. All Penetrations Of Floors (Whether Or Not Fire Resistance Rated) And All Penetrations Of Fire Rated Walls Shall Be Firestopped. Refer To The Specification For Additional Requirements. 	 Other Infrastructure. Provide Ceiling Mounted Smoke Detector At Each Fire Alarm Control Panel, Remote Power Panel, And Remote Annunciation Panel. Duct Smoke Detectors Shall Be Furnished And Installed As Part Of The Electrical Work. 	
		 E. If Areas Of Conflict Are Encountered, The Engineer Shall Be Notified And Contractors Recommendations Shall Be Submitted To The Engineer For Approval Before Work Has Begun. 4. Seismic: 	 A. Duct Mounted Smoke Detectors Shall Be Wired To Shut Down The Associated Unit And Annunciate At The Fire Alarm Control Panel. B. Remote Reset Capability Shall Be Provided For Each Detector. Coordinate Location Of Test Switches In The Field With Owner So That They Are Accessible. Switches Shall Be Provided With Identification Label. 	
	 A. Provide Seismic Bracing And Anchoring Of All Electrical And Fire Protection Equipment In Accordance With The Codes And Seismic Design Criteria Listed In These Documents. B. Provide Structural Tests And Special Inspections In Accordance With The Building Code Listed In The Applicable Codes And References Section Of These Documents. 	 4. Locations Of Fire Alarm Devices And Equipment Shown On The Plan Drawings Is Diagrammatic. Exact Locations Shall Be Determined By The Electrical Contractor In Accordance With Field Conditions And The Following: A. Ceiling Mounted Devices Shall Be Coordinated With Suspended Ceiling, Lighting Fixtures, Diffusers, Ductwork, Spinkler Heads, Etc. And Per NFPA Requirements. B. Wall Mounted Devices Shall Be Coordinated With Other Wall Mounted Devices, Wall Construction Type, Etc. And NFPA And IBC Requirements. Whenever Possible Devices Shall Be Mounted Flush Or Semi Flush. Surface Mounted Devices Will Be Permitted Where Approved By Engineer And Owner. 		
		dlb associates CONSULTING ENGINEERS, P.C. 265 Industrial Way West, Eatontown, N.J. 07724		ERAL INFORMATION SHEET NTENANCE BUILDING dwg. no. EO01-N

