

BURCHFIELD PRIMARY SCHOOL FIRE ALARM

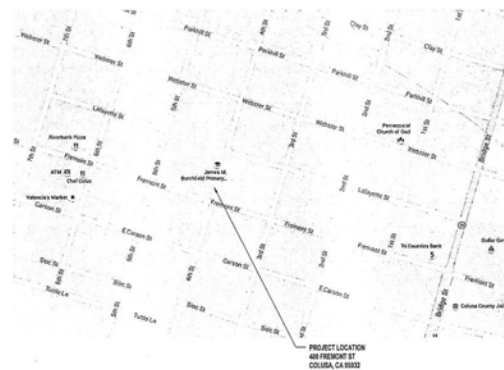
400 FREMONT ST COLUSA, CA 95932

CONSTRUCTION DOCUMENTS

11/16/15

ARCHITECTURAL NEXUS PROJECT NUMBER: 15095

VICINITY MAP



SCHEDULE OF DRAWINGS

GENERAL:	COVER SHEET
0001	GENERAL INFORMATION
0002	
CIVIL/SITE:	ARCHITECTURAL SITE PLAN
A5101	
FIRE ALARM:	
FA001	SYMBOLS LIST & DRAWING INDEX
FA002	LOAD CALCULATION SCHEDULES
FA003	VOICE LOAD CALCULATION SCHEDULES
FA101	FIRE ALARM SITE PLAN
FA210	FIRE ALARM SITE PLAN - DEMOLITION
FA210	BLDG. G. FIRE ALARM PLAN - DEMOLITION
FA201	BLDG. F. FIRE ALARM PLAN
FA202	BLDG. F. FIRE ALARM PLAN - DEMOLITION
FA203	BLDG. K. FIRE ALARM PLAN
FA204	BLDG. K. FIRE ALARM PLAN - DEMOLITION
FA205	BLDG. PORTABLES FIRE ALARM PLAN - DEMOLITION
FA206	BLDG. PORTABLES FIRE ALARM PLAN
FA207	BLDG. C. FIRE ALARM PLAN - DEMOLITION
FA208	BLDG. C. FIRE ALARM PLAN
FA209	FIRE ALARM Riser DIAGRAM
FA210	OPERATING MAINTENANCE
FA211	DETAILS



1000 Third Street, Suite 100
Sacramento, California 95811
T: 916.443.2901 F: 916.443.2905

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CONSTRUCTION
DOCUMENTS
11/16/15
ARCHITECTURAL NEXUS PROJECT NUMBER: 15095

COLUSA UNIFIED SCHOOL DISTRICT
BURCHFIELD PRIMARY SCHOOL FIRE ALARM
400 FREMONT ST COLUSA, CA 95932

OWNER
Colusa Unified School District
743 Tenth Street
Colusa, CA 95932

PHONE: 530.458.7791 CONTACT: xxxxx MOBILE: xxxxx
FAX: 530.458.4039 E-MAIL: xxx@colusa.k12.ca.us INTERNET: http://www.colusa.k12.ca.us

ARCHITECT
Architectural Nexus
1000 Third Street, Suite 100
Sacramento, CA 95811

PHONE: 916.443.2901 CONTACT: Jon Yee MOBILE: 916.443.2901
FAX: 916.443.2905 E-MAIL: jon@architecturalnexus.com INTERNET: http://www.architecturalnexus.com

ELECTRICAL ENGINEER
The Engineering Enterprise
1125 High Street
Sacramento, CA 95803

PHONE: 916.888.8888 CONTACT: Leonard King MOBILE: 916.888.8888
FAX: 916.888.8888 E-MAIL: leonard@teengineering.com INTERNET: http://www.teengineering.com



DESIGN CRITERIA

APPLICABLE CODES

TITLE 18 CCR, PUBLIC SAFETY, EXISTING FIRE MARSHAL REGULATIONS
TITLE 24 CCR, PART 1 - 2013 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
TITLE 24 CCR, PART 2 - 2013 CALIFORNIA BUILDING CODE, VOL. 1 & 2 (CBC)
TITLE 24 CCR, PART 3 - 2013 CALIFORNIA ELECTRICAL CODE (CEC)
TITLE 24 CCR, PART 4 - 2013 CALIFORNIA MECHANICAL CODE (CMC)
TITLE 24 CCR, PART 5 - 2013 CALIFORNIA PLUMBING CODE (CPC)
TITLE 24 CCR, PART 6 - 2013 CALIFORNIA ENERGY CODE (CEC)
TITLE 24 CCR, PART 7 - 2013 CALIFORNIA FIRE CODE (FC)
TITLE 24 CCR, PART 8 - 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (GBSC)
TITLE 24 CCR, PART 9 - 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (GBSC)
TITLE 24 CCR, PART 10 - 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (GBSC)
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TITLE 24 CCR, PART 99 - 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (GBSC)
TITLE 24 CCR, PART 100 - 2013 CALIFORNIA GREEN BUILDING STANDARDS CODE (GBSC)

2013 CALIFORNIA CODE OF REGULATIONS (CCR) APPLICABLE CODES EFFECTIVE JAN 1, 2014

OTHER CRITERIA

CONFORMANCE WITH CALIFORNIA FIRE CODE (CFC) CHAPTER 31 - "FIRE SAFETY DURING CONSTRUCTION & DEMOLITION" IS REQUIRED IN THE COURSE OF CONSTRUCTION.

THIS PROJECT REQUIRES A PROJECT INSPECTOR WITH A MINIMUM CLASS 3 CERTIFICATION.

SCOPE OF WORK

ALTERNATE MODIFICATION TO THE CAMPUS WIDE FIRE ALARM SYSTEM

STATEMENT OF GENERAL CONFORMANCE

FOR ARCHITECTS/ ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS.

(APPLICATION NO. 02-11881 FILE NO. 6-8)

(1) THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

(2) THIS DRAWING, PAGE SPECIFICATIONS CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO ME THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSIDERED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17382 AND 17318 OF THE EDUCATION CODE AND SECTION 434, AS AMENDED BY TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 434 (b)).

I CERTIFY THAT: ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET

THIS DRAWING OR PAGE

(3) ARE IN GENERAL CONFORMANCE AND

(4) HAVE BEEN COORDINATED

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

JOSUEVA YEE

PRINT NAME

11-16-15

DATE

C-1070

LICENSE NUMBER

08-25-17

EXPIRATION DATE

ARCHITECTURAL NEXUS
1000 Third Street, Suite 100
Sacramento, CA 95811
T: 916.443.2901 F: 916.443.2905

G001



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Architectural NEXUS, Inc.
2105 East Parkway Way
Salt Lake City, Utah 84109
T 801 924 5000
http://www.archnexus.com

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COLUSA UNIFIED SCHOOL DISTRICT
**BURCHFIELD PRIMARY SCHOOL
FIRE ALARM**
400 FREMONT ST COLUSA, CA 95522

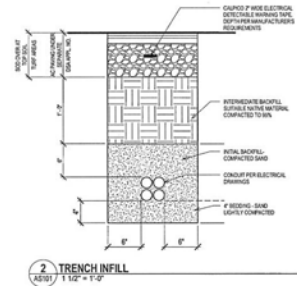
REVISIONS	
NO.	DESCRIPTION
1	AS101
2	AS101
3	AS101
4	AS101
5	AS101
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8	AS101
9	AS101
10	AS101

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15095
CHECKED BY: KEJ
DATE: 11/15/15

ARCHITECTURAL
SITE PLAN

AS101

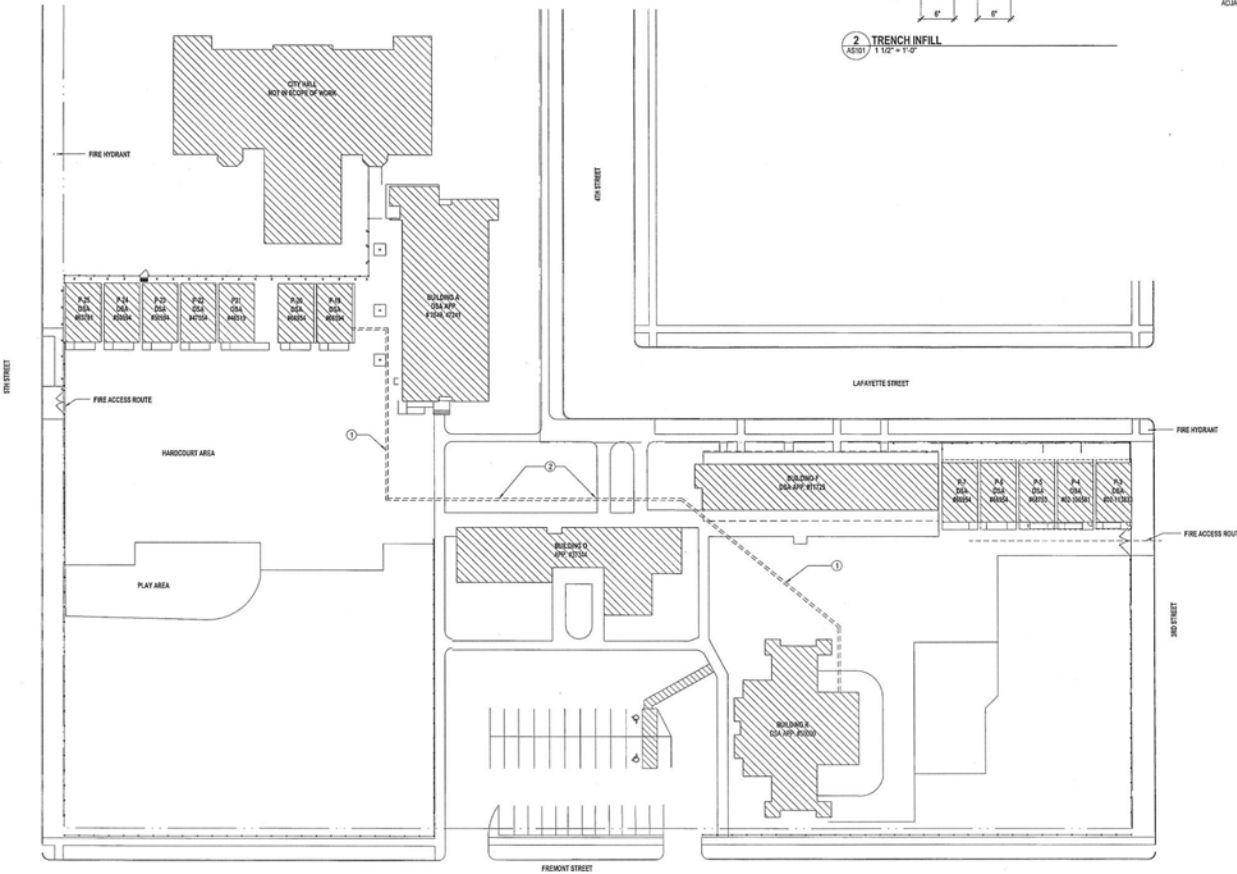


GENERAL NOTE - SITE PLAN

- PAINT ALL EXPOSED SURFACE MOUNTED CONDUITS TO MATCH ADJACENT WALL SURFACE. PREP GALVANIZED METAL CONDUIT AS REQUIRED BY PAINT MANUFACTURER. PROVIDE ONE COAT OF PRIMER AND 1 COAT OF PAINT. PROTECT ADJACENT SURFACES AS REQUIRED TO PREVENT PAINT TRANSFER.
- PATCH AND PAINT INTERIOR FINISHES WHERE DISTURBED BY NEW WORK. FINISH TO MATCH ADJACENT SURFACES.

KEYNOTE - SITE PLAN

- (1) AC FINISH TO BE REMOVED & REPLACED UNDER SEPARATE CONTRACT. COORDINATE WORK WITH PAVING CONTRACTOR. TRENCH AS REQUIRED FOR CONDUIT INSTALLATION. SEE FIRE ALARM SITE PLAN FOR LOCATIONS. BACKFILL TRENCH PER DETAIL 214501.
- TRENCH AS REQUIRED TO INSTALL NEW CONDUIT. BACKFILL TRENCH SIMILAR TO DETAIL. PLACE SOO AT LEVEL TO MATCH ADJACENT TURF. SORE UNDER (2) CONCRETE WALKS.



1 SITE PLAN
AS101 1" = 32'-0"



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Architectural NEXUS, Inc.
1900 3rd Street, Suite 500
Sacramento, CA 95811
T 916.443.6911
http://www.archnexus.com

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The Engineering Enterprise
Consulting Engineers

1100 HIGH STREET
ALBUQUERQUE, NM 87102
(505) 262-8300



**COLUSA UNIFIED SCHOOL DISTRICT
BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

EVS-100 Voice Amp									
Secondary Power Source Requirements									
Device Type	Qty	Current Draw	Total	Device Type	Qty	Current Draw	Total	Device Type	Qty
1. Alarm									
Chime Unit	1	0.0100	0.0100	0	0	0.2400	0		
	1	0.0100	0.0100	0	0	0.2400	0		
	0	0.0000	0.0000	0	0	0.2400	0		
2. Standby									
Order Number of Units @ 200ms	0	0.0000	0.0000	0	0	0.0000	0		
Order Number of Units @ 10.72ms	0	0.0000	0.0000	0	0	0.0000	0		
Total Standby Load			0.0000	Total Alarm Load			0.4800		
100W Voice Amp Battery Calculation									
Calculation in Total Sheet									
Required Standby Current in Hours									
Standby Load Current (Amperes)	0.0000	Amperes	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Required Alarm Current in Hours									
Alarm Load Current (Amperes)	0.0000	Amperes	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total Current Load									
Multiply by the Derating Factor									
Total Ampere Hours Required									
Recommended # Batteries									
Derating Factor required to compensate for the non-linear discharge characteristics of a battery									

REVISIONS
BY: [Signature] DATE: 10/14/2015
BY: [Signature] DATE: 10/14/2015
BY: [Signature] DATE: 10/14/2015

Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT # 15095
CHECKED BY: LMK
DRAWN BY: TEE
DATE: 10/14/2015
**VOICE LOAD
CALCULATION
SCHEDULES**

FA003

1. REMOVE EXISTING FIRE ALARM CABLE FROM SITE CONDUIT TO ORIGINATOR
2. REMOVE FIRE ALARM CONTROL PANEL, POWER TO BE RE-USED.

1. REMOVE EXISTING FIRE ALARM CABLE FROM SITE CONDUIT TO ORIGINATOR
2. REMOVE FIRE ALARM CONTROL PANEL, POWER TO BE RE-USED.



Architectural NEXUS, Inc.
1900 3rd Street, Suite 500
Sacramento, CA 95811
T 916.443.5911
<http://www.archnexus.com>

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1225 HIGH STREET
LUBURN, CA 95033
(916) 985-8008



**BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
COLUSA UNIFIED SCHOOL DISTRICT
400 FREMONT ST COLUSA, CA 95932

IDENTIFICATION GROUP
ONE OF THE STATES AND DISTRICTS

81598-007 02-114561 0
INSTRUMENT NUMBER

AC RT 1.8 10 50
DATE NOV 10 2005

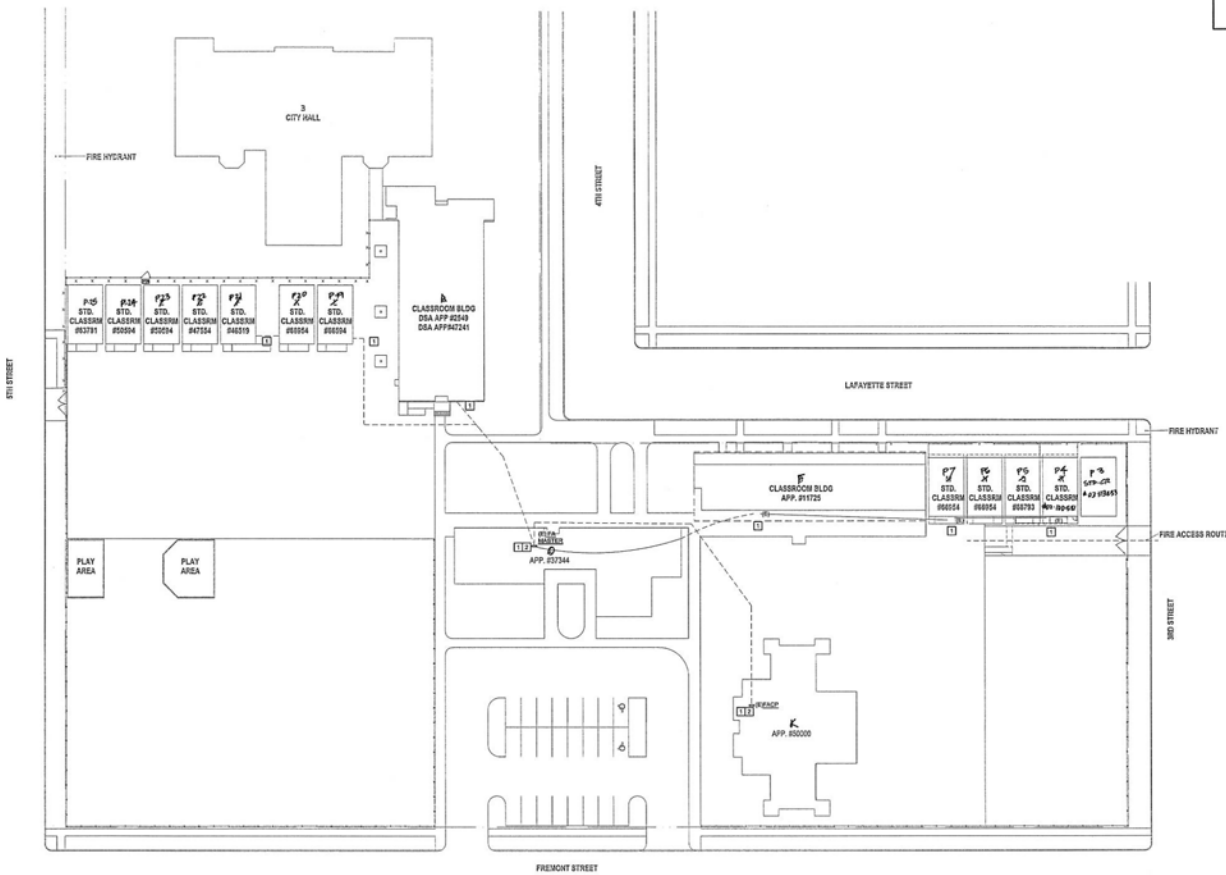
Date Revision

CONSTRUCTION
DOCUMENTS

NEXUS PROJECT #: 15095
CHECKED BY: LW
DRAWN BY: TEE
DATE: 11/16/15

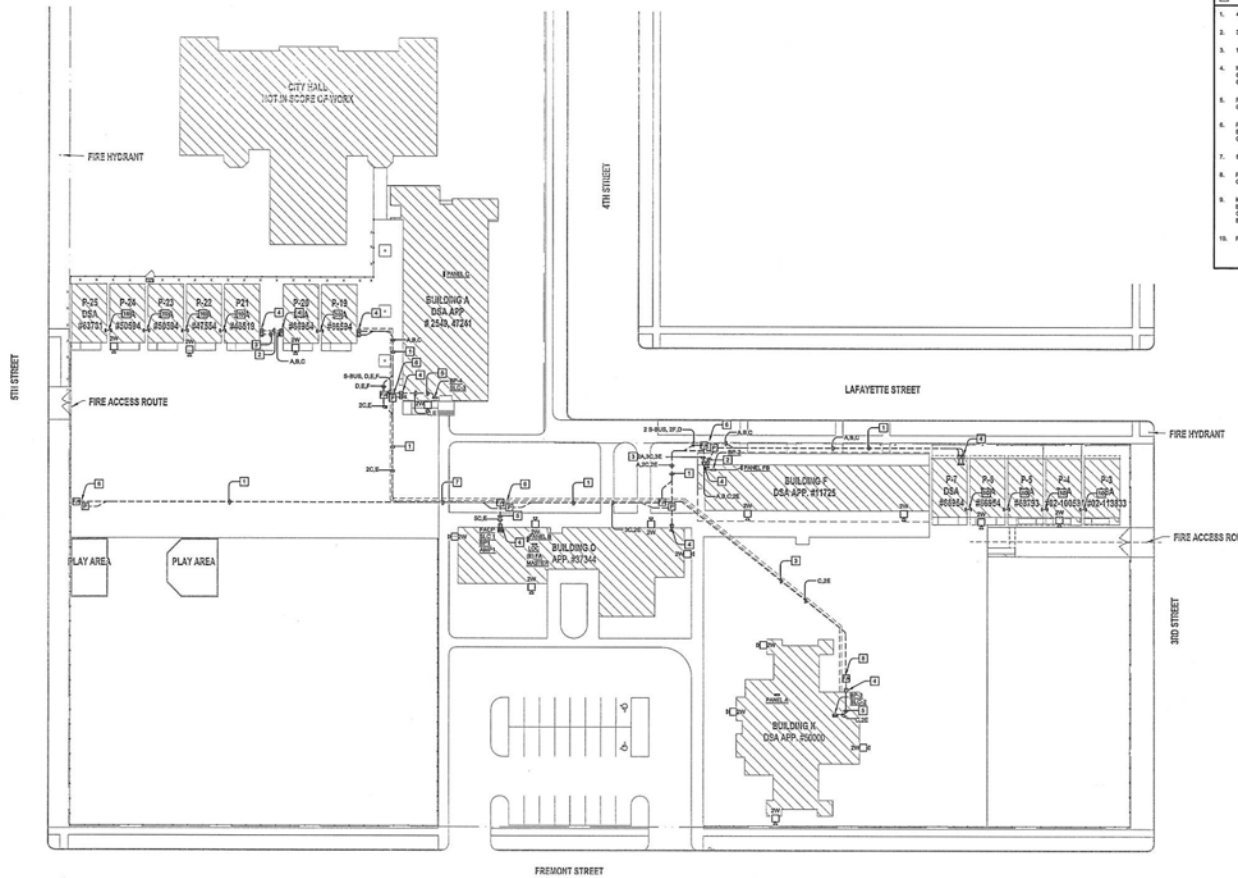
FIRE ALARM
SITE PLAN
DEMOLITION

FA101



FIRE ALARM SITE PLAN - DEMOLITION

SCALE: 1" = 30' 0"



FIRE ALARM SITE PLAN

SCALE: 1" = 30'-0"

- 1. GROUND BOX FOR SIGNAL AND DATA CONDUIT/CABLE, CHESNEY 10-10
- 2. GROUND BOX FOR FIRE ALARM CONDUIT/CABLE, CHESNEY 10-10
- 3. 1/2"X1/2" MESA 38 SIGNAL AND DATA TERMINAL ENCLOSURE, 3/4" CONDUIT
- 4. 1/2"X1/2" MESA 38 FIRE ALARM TERMINAL ENCLOSURE, 1/2" CONDUIT

GENERAL SHEET NOTES

1. ALL GROUND BOXES SHALL BE CONCRETE WITH EXTENSION RINGS TO 2" BELOW SURFACE. LABEL GROUND BOXES FOR "FIRE ALARM" AND "COMMUNICATION" RESPECTIVELY.
2. RESTORE ASPHALT, CONCRETE AND LANDSCAPE SURFACE TO MATCH ORIGINAL CONDITION.
3. WHEN SAW CUTTING CONCRETE, CUT ALONG JOINTS AND REMOVE SECTION OF CONCRETE. REPLACE ENTIRE SECTION.
4. REFER TO FACP FOR SINGLE LINE DIAGRAM.
5. FIRE ALARM AND SIGNAL CONDUIT SHALL ENTER THE BUILDING FROM JUNCTION BOXES AT CEILING WITH THE QUANTITY OF CONDUITS TO THE BUILDING. ROUTE FIRE ALARM CONDUITS TO EQUIPMENT. RING SIGNAL CONDUIT INTO JUNCTION BOXES AS NOTED.

NUMBERED SHEET NOTES

1. 4"-2" UNDERGROUND CONDUIT FOR 1-FA, 1-SIGNAL, 1-DATA FIBER, AND 1-SPARE.
2. 3"-2" UNDERGROUND CONDUIT FOR 1-SIGNAL, 1-DATA FIBER, AND 1-SPARE.
3. 1"-2" UNDERGROUND CONDUIT FOR 1-FA.
4. MOUNT SIGNAL AND FA ENCLOSURES ABOVE CEILING LINE. PROVIDE GALVANIZED RIGID CONDUIT FROM BOTTOM OF ENCLOSURES TO US CONDUIT. SLEEVE INTO BUILDING ABOVE CEILING LINE WITH QTY OF CONDUITS FROM UNDERGROUND.
5. PROVIDE 1/2" FROM FIRE ALARM ENCLOSURE INTO BUILDING AND TERMINATE IN A 1/2" GUTTER ABOVE FIRE ALARM BOOSTER PANEL.
6. PROVIDE A CHESNEY 10-10 FIRE ALARM PULL BOX AND 60-100 TELECOM SIGNAL PULL BOX. EACH BOX SHALL HAVE A 1/2" EXTERIOR RING. GRADUALLY ALL CONDUITS WHERE ENTERING THROUGH CONCRETE BOX.
7. 3"-2" UNDERGROUND CONDUIT FOR 3-FA, 3-SIGNAL, 3-DATA FIBER, AND 3-SPARE.
8. PROVIDE A CHESNEY 10-10 FIRE ALARM PULL BOX WITH A 1/2" EXTENSION RING. GRADUALLY ALL CONDUITS WHERE ENTERING THROUGH CONCRETE BOX.
9. MOUNT A FA ENCLOSURE ABOVE CEILING LINE. PROVIDE GALVANIZED RIGID CONDUIT FROM BOTTOM OF ENCLOSURE TO US CONDUIT. SLEEVE INTO BUILDING ABOVE CEILING LINE WITH QTY OF CONDUITS FROM UNDERGROUND. COORDINATE LOCATION OF CONDUIT AND ENCLOSURE WITH THE OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.
10. PROVIDE 3/4" SLEEVES BETWEEN PORTABLE BUILDINGS. ONE FOR FA AND TWO FOR SIGNAL.



Architectural NEXUS, Inc.
1900 3rd Street, Suite 500
Sacramento, CA 95811
T 916.443.5911
info@archnexus.com

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The Engineering Enterprise
Consulting Engineers
1105 HIGH STREET
SACRAMENTO, CA 95833
(916) 443-5911



**COLUSA UNIFIED SCHOOL DISTRICT
BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST. COLUSA, CA 95932

REVISIONS
BY: [Signature] DATE: 11/16/15
CHECKED BY: [Signature] DATE: 11/16/15
DATE: 11/16/15

Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15036
CHECKED BY: LMM
DRAWN BY: TEE
DATE: 11/16/15
**FIRE ALARM
SITE PLAN**

FA101



- NUMBERED SHEET NOTES**
1. DEMO FIRE ALARM DEVICE AND CABLE TO ORIGINATOR. PROVIDE A BLANK COVER PLATE OVER EXISTING DEVICE BOXES THAT ARE NOT REQUIRED.
 2. DEMO FIRE ALARM CONTROL PANEL. POWER TO BE REUSED FOR NEW FACE.



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Architectural NEXUS, Inc.
1900 3rd Street, Suite 500
Berkeley, CA 94711
T 916.443.5511
http://www.archnexus.com

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The Engineering Enterprise
Engineering Firm

1125 HIGH STREET
ALBANY, CA 94706
(916) 499-4100



COLUSA UNIFIED SCHOOL DISTRICT
**BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95532

REVISIONS			
NO.	DESCRIPTION	DATE	BY
0108-001	02-11-08	08	
02	02-11-08	08	
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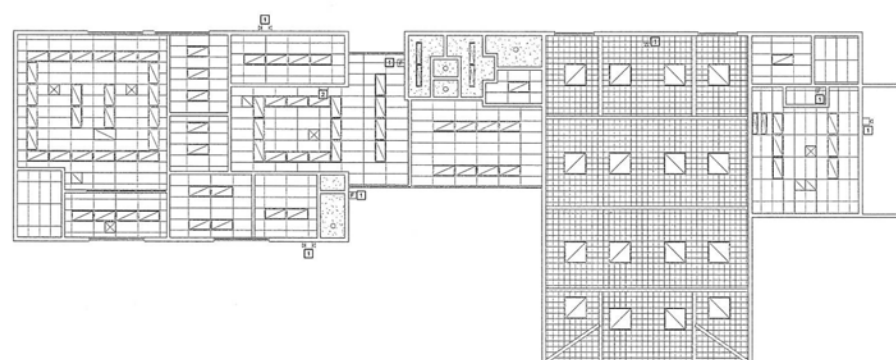
Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15085
CHECKED BY: LYN
DRAWN BY: TEE
DATE: 11/15/15

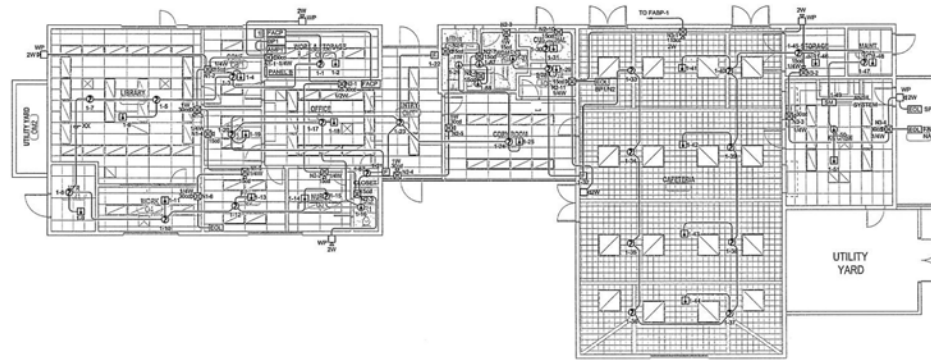
**BLDG. O FIRE
ALARM PLAN -
DEMOLITION**

FA201D



BLDG. O FIRE ALARM PLAN - DEMOLITION
SCALE: 1/8" = 1'-0"

FA201D



A BLDG. O FIRE ALARM PLAN
FA201 SCALE: 1/8" = 1'-0"

- GENERAL SHEET NOTES**
- FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.
 - FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY. ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
 - COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH LIGHT FIXTURES TO AVOID CONFLICTS.
 - INSTALL FIRE ALARM CONDUCTIONS IN CONDUIT. ROUTE CONDUIT CONCEALED ABOVE CEILING AS MUCH AS POSSIBLE. MINIMUM SIZE OF CONDUIT SHALL BE 3/4". UTILIZE WIREBraid FOR BURIED SURFACE RUNWAYS (IN LIEU OF CONDUIT) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED OR CONCEALED.
 - REFER TO PART FOR SINGLE LINE DIAGRAM.

- NUMBERED SHEET NOTES**
- MOUNT THE FIRE ALARM PANEL WITH EMERGENCY EVACUATION ON THE EXTERIOR WALL. MOUNT THE BOOSTER PANEL AND AMPLIFIER ABOVE THE RACK.



ARCH | NEXUS
Architectural Nexus, Inc.
1900 3rd Street, Suite 500
Sacramento, CA 95811
T 916.443.5911
http://www.archnexus.com

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The Engineering Enterprise
Consulting Engineers

1101 HIGH STREET
ALBANY, CA 95709
(916) 488-8000



**COLUSA UNIFIED SCHOOL DISTRICT
BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

REVISIONS
NO. OF THE SHEET 69
ISSUED BY 40114851
CHECKED BY
DATE NOV 18 2013

Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT # 15005
CHECKED BY: LMK
DRAWN BY: TEE
DATE: 1/18/15

BLDG. O FIRE ALARM PLAN

FA201



NUMBERED SHEET NOTES	
1.	DEM FIRE ALARM DEVICE AND CABLE TO ORIGINATOR. PROVIDE A BLANK COVER PLATE OVER EXISTING DEVICE BOXES THAT ARE NOT REUSED.
2.	DEM FIRE ALARM CONTROL PANEL. POWER TO BE REUSED FOR NEW FAC.



ARCH | NEXUS

Architectural NEXUS, Inc.
1500 3rd Street, Suite 500
Sacramento, CA 95811
T 916.443.5311
http://www.archnexus.com

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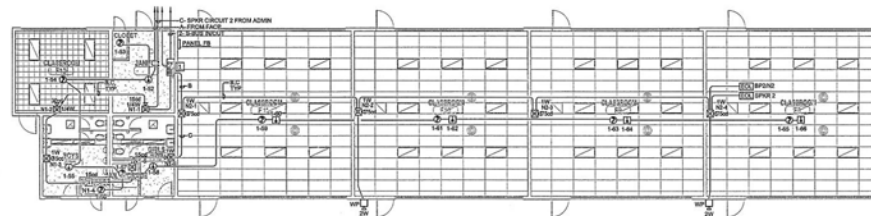
The Engineering Enterprise
Engineering Firm

1122 HIGH STREET
ACOLUSA, CA 95932
(916) 888-8000



COLUSA UNIFIED SCHOOL DISTRICT
**BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

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A
FA202

BLDG. F FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.
- FIRE ALARM CIRCUITS AND CIRCUIT ROUTINGS ARE SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
- COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH LIGHT FIXTURES TO AVOID CONFLICTS.
- INSTALL FIRE ALARM CONDUITING IN CONDUIT. ROUTE CONDUIT CONCEALED ABOVE CEILING AND/OR IN WALLS TO THE EXTENT POSSIBLE. MINIMUM SIZE OF CONDUIT SHALL BE 3/4" UNLESS OTHERWISE NOTED. SURFACE EXCESSIVE (IN USE OF CONDUIT FOR AREA WHERE CONDUIT CANNOT BE INSTALLED OR CONCEALED).
- REFER TO PLAN FOR SINGLE LINE DIAGRAM.

NUMBERED SHEET NOTES

- INSTALL NEW BOOSTER PANEL ON WALL. PROVIDE NEW 120VAC POWER FROM POWER PANEL IN ROOM.



Architectural NEXUS, Inc.
1902 3rd Street, Suite 100
Sacramento, CA 95811
T 916.443.5011
info@arch-nexus.com

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COLUMBIA UNIFIED SCHOOL DISTRICT
**BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

6/15/2015 10:00 AM
02-114581
1/16/15
1.0

Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15005
CHECKED BY: LWK
DRAWN BY: TEE
DATE: 11/16/15

BLDG. F FIRE
ALARM PLAN

FA202



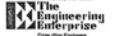
1. DEMO FIRE ALARM DEVICE AND CABLE TO ORIGINATION. PROVIDE A BLANK COVER PLATE OVER EXISTING DEVICE BOXES THAT ARE NOT REUSED.
2. DEMO FIRE ALARM CONTROL PANEL. POWER TO BE REUSED FOR NEW FAC.
3. DEMO ALL SITE FIRE ALARM CABLE AND BETWEEN BUILDINGS.



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1900 3rd Street, Suite 500
Sacramento, CA 95811
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**COLUSA UNIFIED SCHOOL DISTRICT
BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

IDENTIFICATION STAMP
OF THE STATE ARCHITECT

61588-007 02-114561 6-4

PROJECT NUMBER APPLICATION NUMBER FILE NUMBER

AC MT PL 12 SR 54

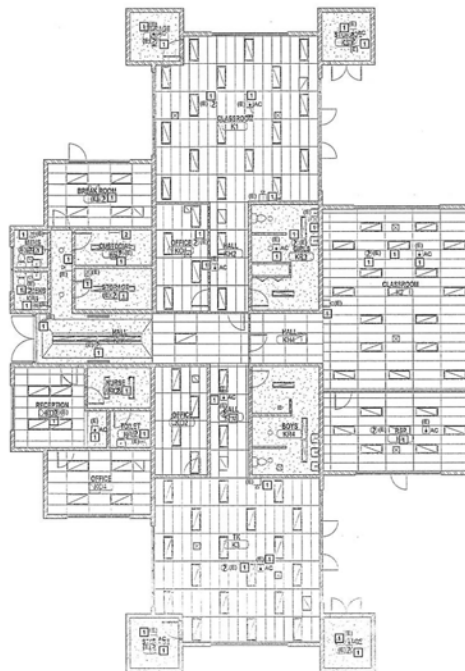
DATE NOV 18 2015

#	Date	Revision
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NEXUS PROJECT #: 15095
CHECKED BY: LWK
DRAWN BY: TEE

BLDG. K FIRE
ALARM PLAN -
DEMOLITION

FA203D

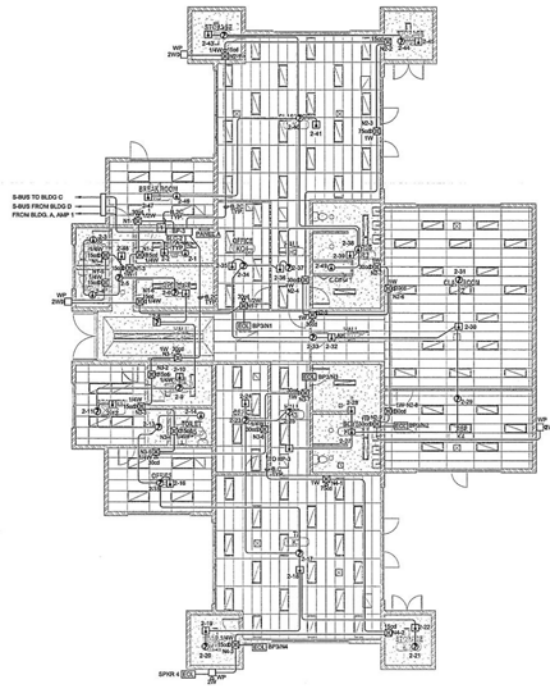


BLDG. K FIRE ALARM PLAN - DEMOLITION

SCALE: 1/8" = 1'-0"

- GENERAL SHEET NOTES**
- FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.
 - FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
 - COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH LIGHT FIXTURES TO AVOID CONFLICTS.
 - INSTALL FIRE ALARM CONDUITS IN CONDUIT ROUTE CONDUIT CONCEALED ABOVE CEILING AND/OR IN WALLS WHENEVER POSSIBLE. MINIMUM SIZE OF CONDUIT SHALL BE 3/4". UNLESS SHOWN TO THE CONTRARY, ALL CONDUITS SHALL BE RIGID (UNLESS OTHERWISE NOTED) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED OR CONCEALED.
 - REFER TO FA201 FOR SINGLE LINE DIAGRAM.

- NUMBERED SHEET NOTES**
- INSTALL NEW BOOSTER PANEL ON WALL, USE EXISTING 120VAC POWER FROM EXISTING FIRE ALARM EQUIPMENT.



BLDG. K FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



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1909 3rd Street, Suite 500
Sacramento, CA 95811
T 916.443.5811
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**COLUSA UNIFIED SCHOOL DISTRICT
BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

#	Date	Revision
1	11/16/15	1

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15056
CHECKED BY: LMK
DATE: 11/16/15

BLDG. K FIRE ALARM PLAN

FA203

- NUMBERED SHEET NOTES**
1. DEMO FIRE ALARM DEVICE AND CABLE TO ORIGINATOR. PROVIDE A BLANK COVER PLATE OVER EXISTING DEVICE BOXES THAT ARE NOT REUSED.
 2. DEMO ALL SITE CABLE AND BETWEEN BUILDINGS.



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Sacramento, CA 95811
T 916.443.5311
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COLUSA UNIFIED SCHOOL DISTRICT
**BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

61888-007 03-11-0801 5-9
ALL BY J.E. W. 550
NOV 12 2011

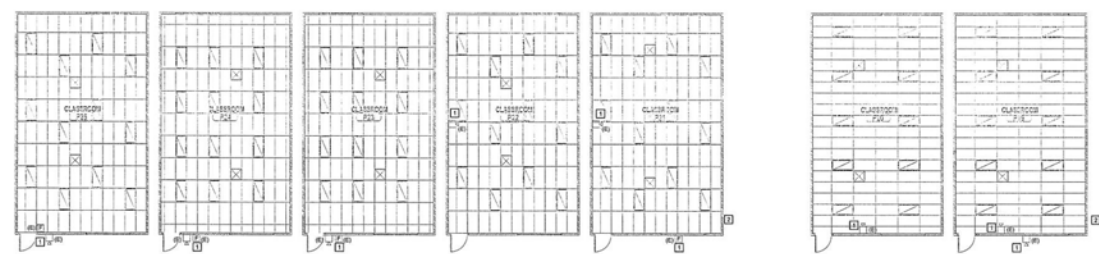
Date Revision

**CONSTRUCTION
DOCUMENTS**

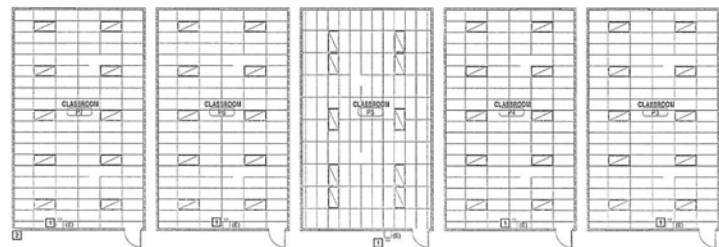
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CHECKED BY: LVK
DATE: 11/16/15

**PORTABLES FIRES
ALARM PLANS -
DEMOLITION**

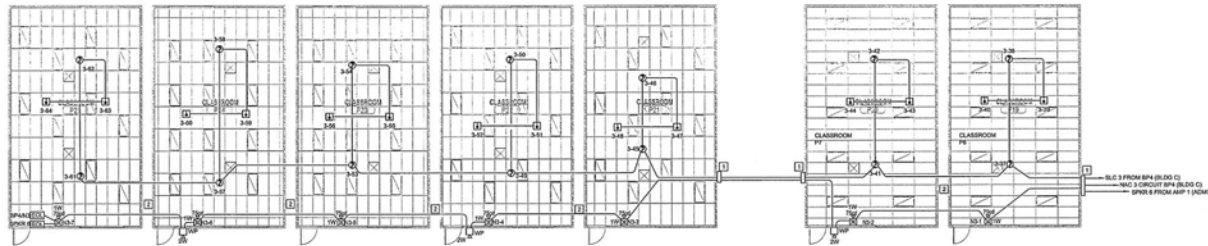
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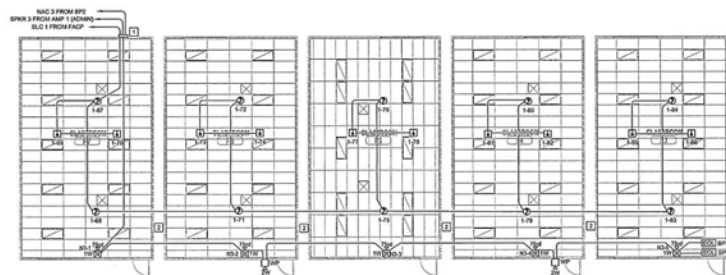
**WEST
EAST PORTABLES FIRE ALARM PLAN - DEMOLITION**
SCALE: 1/8" = 1'-0"



**EAST
WEST PORTABLES FIRE ALARM PLAN - DEMOLITION**
SCALE: 1/8" = 1'-0"



A WEST PORTABLES FIRE ALARM PLAN - MODIFIED
SCALE: 1/8" = 1'-0"



B EAST PORTABLES FIRE ALARM PLAN - MODIFIED
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.
- FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY. ILLUSTRATED THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
- COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH LIGHT FIXTURES TO AVOID CONFLICTS.
- INSTALL FIRE ALARM CONDUITS IN CONDUIT. ROUTE CONDUIT CONCEALED ABOVE CEILING AND ABOVE IN WALLS WHENEVER POSSIBLE. MINIMUM SIZE OF CONDUIT SHALL BE NOT UPWARD WIREBULB FOR SERIES SURFACE RACEMOUNT (IN USE OF CONDUIT) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED OR CONCEALED.
- REFER TO PAGE 1 FOR SINGLE LINE DIAGRAM.

NUMBERED SHEET NOTES

- TRANSITION FROM UNDERGROUND CABLE TO INDOOR CABLE. USE TERMINAL STRIPS IN NEW 2 ENCLOSURE.
- PROVIDE FLEXIBLE 2" STEEL CONDUIT BETWEEN PORTABLE BUILDINGS ABOVE CEILING.



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Architectural NEXUS, Inc.
1300 3rd Street, Suite 500
Sacramento, CA 95811
T 916.443.5911
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COLUSA UNIFIED SCHOOL DISTRICT
**BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

CONSTRUCTION GROUP
61000-007 00-114551 5-9
DATE: 11/15/15
BY: TEE

Date Revision

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 10005
CHECKED BY: LUK
DRAWN BY: TEE
DATE: 11/15/15

PORTABLES FIRE
ALARM PLANS

FA204



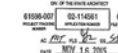
1. DEMO FIRE ALARM DEVICE AND CABLE TO ORINATION. PROVIDE A BLANK COVER PLATE OVER EXISTING DEVICE BOXES THAT ARE NOT REUSED.
2. DEMO FIRE ALARM CONTROL PANEL. POWER TO BE REUSED FOR NEW FAC.



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**COLUSA UNIFIED SCHOOL DISTRICT
BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932



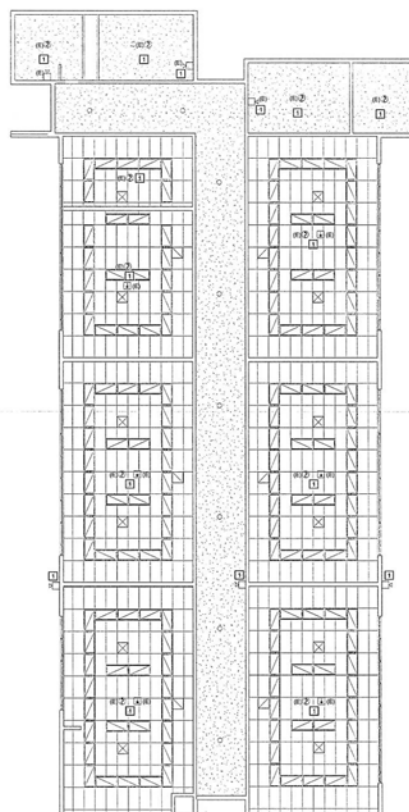
#	Date	Revision
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CONSTRUCTION
DOCUMENTS

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CHECKED BY: LWK
DRAWN BY: TEE

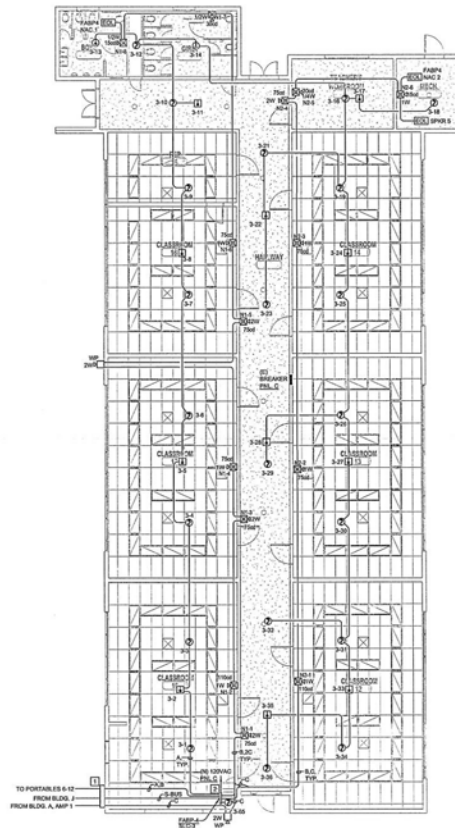
DATE: 11/16/15
BLDG. A FIRE
ALARM PLAN -
DEMOLITION

FA205D



(A) BLDG. A FIRE ALARM PLAN - DEMOLITION

SCALE: 1/8" = 1'-0"



A
FA205

BLDG. A FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

- FIRE ALARM SYSTEM INSTALLATION SHALL COMPLY WITH ALL REQUIREMENTS OF APPLICABLE CODES, STANDARDS AND STATE REGULATIONS.
- FIRE ALARM CIRCUITS AND CIRCUIT ROUTING ARE SHOWN SCHEMATICALLY FOR CLARITY. ILLUSTRATING THE WIRING CONFIGURATION NECESSARY FOR PROPER CIRCUIT SUPERVISION.
- COORDINATE CEILING MOUNTED FIRE ALARM DEVICE LOCATIONS WITH LIGHT FIXTURES TO AVOID CONFLICTS.
- INSTALL FIRE ALARM CONDUITS IN CONDUIT ROUTE CONDUIT CONCEALED ABOVE CEILING AND/OR IN WALLS WHEREVER POSSIBLE. MINIMUM SIZE OF CONDUIT SHALL BE 1/2". UTILIZE WIREMOLD FOR SERIES SURFACE RACEWAY (DUE TO CONDUIT) FOR AREA WHERE CONDUIT CANNOT BE INSTALLED IN CONCEALED.
- REFER TO FASH FOR SINGLE LINE DIAGRAM.

NUMBERED SHEET NOTES

- TRANSITION FROM US CABLE TO INDOOR CABLE WITH TERMINAL STRIPS AT ENCLOSURE. REFER TO SEE PLAN 101.
- PLACE FIRE ALARM BOOSTER PANEL WITH BLC CARD IN STORAGE CLOSET. PROVIDE POWER FROM PANEL, C.



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Architectural NEXUS, Inc.
1500 3rd Street, Suite 500
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T 916.443.5911
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Consulting Engineers
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(916) 885-8800



COLUSA UNIFIED SCHOOL DISTRICT
**BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95532

REVISIONS
NO. OF THE SHEET 69
BY: [Signature] DATE: 1/16/15
BY: [Signature] DATE: 1/16/15

Date Revision

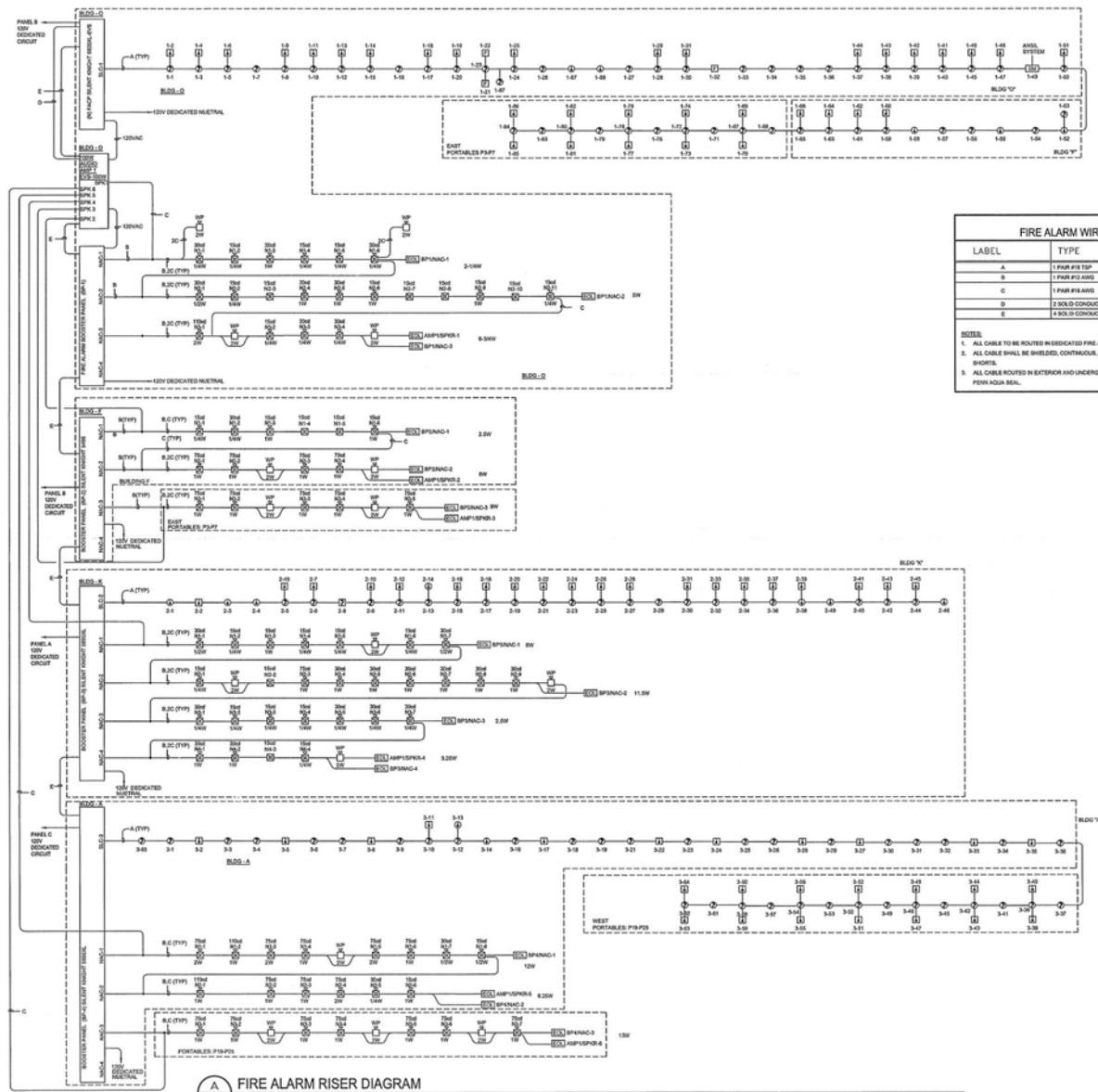
CONSTRUCTION DOCUMENTS

NEXUS PROJECT # 15005
CHECKED BY: LMK
DRAWN BY: TEE
DATE: 1/16/15

BLDG. A FIRE
ALARM PLAN

FA205





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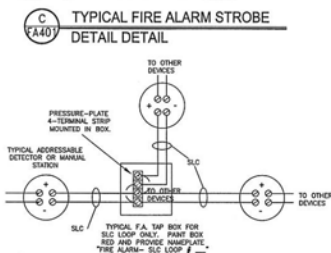
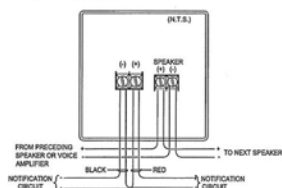
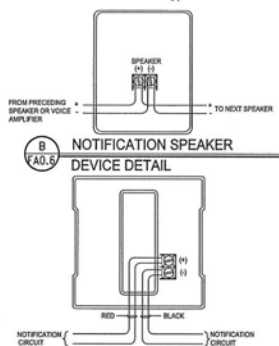
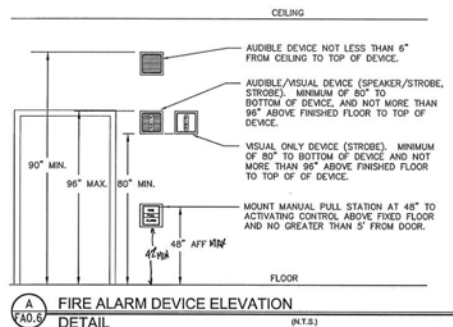
COLUSA UNIFIED SCHOOL DISTRICT
**BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

6/19/2017 10:07:43 AM
CD-114501
11/15/15
REV. 1.0 2015

CONSTRUCTION DOCUMENTS

NEXUS PROJECT #: 15095
CHECKED BY: LWK
DATE: 11/15/15
FIRE ALARM RISER DIAGRAM

FA301

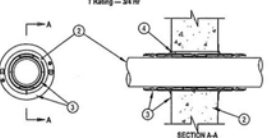
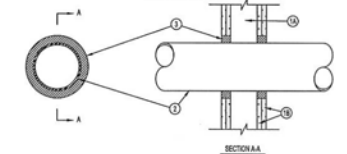


D TYPICAL NOTIFICATION SPEAKER/STROBE DETAIL DETAIL (N.T.S.)

E TYPICAL FIRE ALARM T-TAP DETAIL DETAIL (N.T.S.)

System No. 9FL-1554
F Rating - 1 and 2 1/2 (See Items 1 and 2)
T Rating - 5/8
Listing: UL-Listed Item 1 (CPM/R)
Listing: UL-Listed Item 1 (CPM/R)

System No. W-J-1215
F Rating - 2 1/2
T Rating - 34 1/2



1. Wall Assembly --- The 1 or 2 hr fire-rated assembly without/with wall assembly shall be constructed of the materials and in the manner specified in the individual 1020 or 1040 Series Wall and Partition Details in the UL Fire Resistance Directory and shall include the following construction features:
 - A. Studs --- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of max 2 by 4 in. lumber spaced 16 in. O.C. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. O.C. When steel studs are used and the studs of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of stud steel installed between the vertical studs and secure-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wide and 6 in. high.
 - B. System Insert --- 5/8 in. dia., 4 ft wide with square or tapered edges. The system insert type, thickness, number of layers, fastener type and steel installation shall be as specified in the individual 1020 or 1040 Series Details in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 16-1/2 in. for wood stud walls.
 - C. The T Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Through-Penetrants --- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous paint contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
 - A. Steel Pipe --- Min 20 in. diam (for uncoated) steel or ductile iron pipe.
 - B. Iron Pipe --- Min 20 in. diam (for uncoated) steel or ductile iron pipe.
 - C. Conduit --- Min 4 in. diam (for uncoated) steel or ductile iron pipe.
 - D. Copper Tubing --- Min 6 in. diam (for uncoated) type 1 (for heavy) copper tubing.
 - E. Copper Pipe --- Min 6 in. diam (for uncoated) regular (for heavy) copper pipe.
3. Fire Seal or Gasket Material --- Sealant --- Min 5/8 in. thickness of fire resistant material applied within the annulus, flush with both surfaces of wall. At the joint or continuous contact between pipe and wall, a min 1/2 in. diam bead of fire material shall be applied at the pipe wall interface on both surfaces of wall.

UL-Listed CONCRETE, GROUT, OR GFRC
UL-Listed NC --- 15-ONE Sealant
*Showing the UL Classification Mark



Approved by HILTI, Inc. Country of
Manufacture: HILTI, Inc.
August 28, 2008



FIRE STOP SYSTEMS

FIRE ALARM SYSTEM COMPONENT SCHEDULE					
SYMBOL	EQUIPMENT	DEVICE AMPS	MANUFACTURER & CATALOG NUMBER	LISTING DATE	CALIF. STATE FM LISTING NUMBER
[FACP]	LIFE SAFETY CONTROL PANEL		SIEMENS KNIGHT MODEL 8800L	06/20/2018	7165-0559-0172
[RPS]	EXISTING FIRE ALARM REMOTE PANEL WITH SLC EXPANDER	6	SIEMENS KNIGHT MODEL 8800L	06/20/2018	7165-0559-0172
[AMP]	LIFE SAFETY AUDIO AMPLIFIER	2700	SIEMENS KNIGHT MODEL EN-50W	06/20/2018	7165-0559-0172
[MNS]	MANUAL PULL STATION	.055	SIEMENS KNIGHT ROK-PULL-CA	06/20/2018	7165-0559-0181
[PDI]	PHOTOELECTRIC SMOKE DETECTOR	.055	SIEMENS KNIGHT ROK-PHOTO	06/20/2018	7272-0559-0149
[HED]	ADDRESSABLE HEAT DETECTOR FLUSH CEILING 14 DEGREES	.055	SIEMENS KNIGHT ROK-HEAT-ACR	06/20/2018	7270-0559-0147
[HED]	CONVENTIONAL HEAT DETECTOR FLUSH CEILING 14 DEGREES	.055	SIEMENS KNIGHT ROK-HEAT-ACR	06/20/2018	7270-0559-0147
[PDI]	PHOTOELECTRIC SMOKE DETECTOR WITH HOUSING	.055	SIEMENS KNIGHT ROK-DUCT	06/20/2018	3242-0559-0162
[MNS]	SINGLE MONITORING MODULE CONTROL RELAY MODULE	.055	SIEMENS KNIGHT ROK-RELAY	06/20/2018	7300-0559-0155
[MNS]	MULTI-CANDELA DUAL AUDIBLE STROBE (MAX 10 INCHES)	150W-571 200W-598 750W-103	SIEMENS KNIGHT RPSFM SPEAKER STROBE MODULE	06/20/2018	7300-1853-0201
[MNS]	MULTI-CANDELA DUAL STROBE (MAX 10 INCHES)	150W-571 200W-598 750W-103	SIEMENS KNIGHT RPSFM SPEAKER STROBE MODULE	06/20/2018	7300-1853-0201
[MNS]	CEILING NOTIFICATION SPEAKER 1W TO 2W		SIEMENS KNIGHT RPSFM CEILING SPEAKER	06/20/2018	7300-1853-0201
[MNS]	WALL NOTIFICATION SPEAKER 1W TO 2W		SIEMENS KNIGHT RPSFM WALL SPEAKER	06/20/2018	7300-1853-0201
[RPS]	BOOSTER POWER SUPPLY	6	SIEMENS KNIGHT-ADDRESSABLE POWER SUPPLY, MODEL 848	06/20/2018	7165-0559-0135
[EOL]	END OF LINE RESISTOR				

FIRE ALARM SYSTEM OPERATING MATRIX										
STATE OF OPERATION	STATION DETECTOR	STATION DETECTOR	STATION DETECTOR	STATION DETECTOR	STATION DETECTOR	STATION DETECTOR	STATION DETECTOR	STATION DETECTOR	STATION DETECTOR	STATION DETECTOR
FACP ALARM	X	X	X	X	X	X	X	X	X	X
MANUAL ALARM	X	X	X	X	X	X	X	X	X	X
OFF SITE REPORTING ALARM	X	X	X	X	X	X	X	X	X	X
FACP TROUBLE										
MANUAL TROUBLE										
OFF SITE REPORTING TROUBLE										
AUDIBLE ALARM	X	X	X	X	X	X	X	X	X	X
VISUAL ALARM	X	X	X	X	X	X	X	X	X	X
SUPERVISING STATION	X	X	X	X	X	X	X	X	X	X
MANUAL SHUTDOWN										
DEACTIVATE AUDIBLES										
DEACTIVATE VISUALS										
SYSTEM NORMAL										
ACTIVATE FIRE SPRINKLER BELL										

FIRE ALARM SCOPE OF WORK

ALTERATION OF AUTOMATICALLY ACTIVATED FIRE ALARM SYSTEM INCLUDING ADDITION OF INITIATION, NOTIFICATION AND CONTROL DEVICES AS SHOWN ON PLANS AND SPECIFICATIONS.

FIRE ALARM SYSTEM DESCRIPTION

THE SYSTEM IS POWER LIMITED, AUTOMATIC, MANUAL, LOCAL, AUXILIARY, REMOTE STATION (PROTECTED PREMISES), PROPRIETARY (PROTECTED PREMISES), SUITABLE FOR RELEASING DEVICE SERVICE. REFER TO LISTED'S DATA SHEET FOR DETAILED PRODUCT DESCRIPTION AND OPERATIONAL CONSIDERATIONS. SYSTEM SHALL HAVE MASS EVACUATION CAPABILITY WITH MESSAGE OVERRIDE FUNCTION.

FIRE ALARM SYSTEM NOTES

1. THE FIRE ALARM SYSTEM SHALL CONFORM TO CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 780 AND CALIFORNIA FIRE CODE (CFC) SECTION 907.
2. PROVIDE CALIFORNIA STATE FIRE MARSHAL LISTING NUMBERS FOR EACH COMPONENT OF THE SYSTEM INCLUDING MANUFACTURER CUT SHEETS FOR REVIEW.
3. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE O&A PROJECT INSPECTOR TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE (2013) NFPA 72 SECTION 14.4.1.
4. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE O&A PROJECT INSPECTOR.
5. PROVIDE A RECORD OF COMPLETION PER CEC 707.2.
6. AUTOMATIC FIRE ALARM SYSTEMS SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CEC 707.2.2. THE SUPERVISING STATION SHALL BE LISTED AS EITHER ULFAC OR ULFUS BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARD 8013.
7. IN ACCORDANCE WITH NFPA 72 18.5.5.2 CIRCUIT DEDICATION AND ACCESSIBILITY SHALL:
 - DEDICATED BRANCH CIRCUIT
 - MECHANICALLY PROTECTED (LOCKOUT)
 - MARKED RED
 - ACCESSIBLE TO AUTHORIZED PERSONNEL ONLY
 - IDENTIFIED AS FIRE ALARM, EMERGENCY COMMUNICATION OR FIRE ALARM / ECS
 - LOCATION OF THE CIRCUIT DISCONNECT (BREAKER) PERMANENTLY IDENTIFIED AT THE FIRE ALARM CONTROL UNIT.
8. IN ACCORDANCE WITH NFPA 72 18.5.5.4.2 TWO OR MORE GROUPS OF VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED, IN SAME ROOM OR ADJACENT SPACES WITHIN THE FIELD OF VIEW.



ARCH|NEXUS
Architectural NEXUS, Inc.
1000 3rd Street, Suite 500
Sacramento, CA 95811
T 916.443.3511
info@archnexus.com

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The Engineering Enterprise
Consulting Engineers
1105 HIGH STREET
ALBUQUERQUE, NM 87102
(505) 262-1111



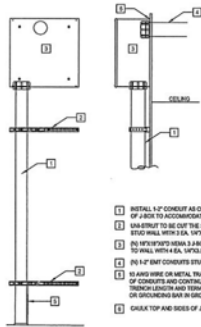
COLUMBIA UNIFIED SCHOOL DISTRICT
BURCHFIELD PRIMARY SCHOOL FIRE ALARM
400 FREMONT ST COLUSA, CA 95932

CONSTRUCTION DOCUMENTS

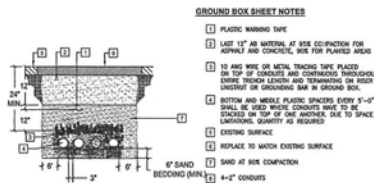
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DRAWN BY: TEE
DATE: 11/16/15

OPERATING MATRIX

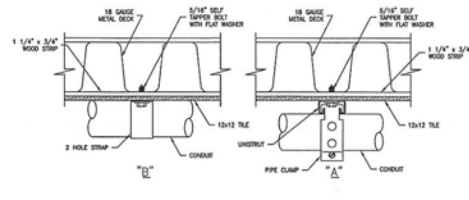
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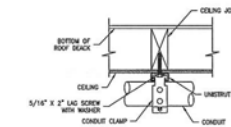
A EXTERIOR CONDUIT DETAIL AT WALL
FA501 NTS



B EXTERIOR CONDUIT DETAIL AT BREEZEWAY
FA501 NTS



C CONDUIT AT TRENCH
FA501 NTS

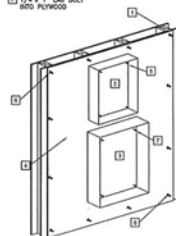


D GROUND TRENCH DETAIL
FA501 NTS

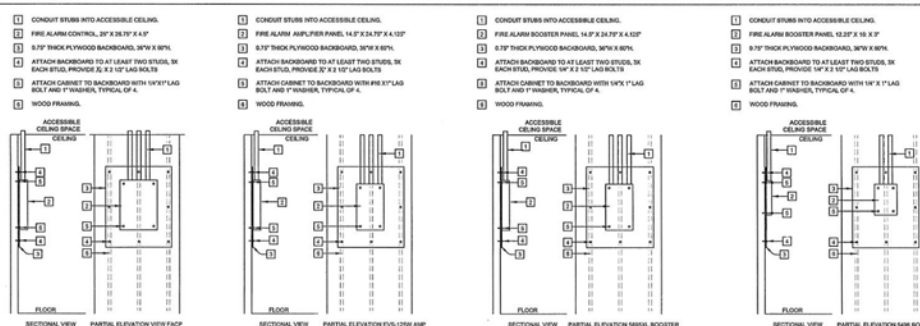
E CONDUIT TO CORRUGATED TILE DECK
FA501 NTS

F CONDUIT TO WOOD DECK
FA501 NTS

- GROUND BOX SHEET NOTES**
1. PLASTIC WRAPPING TAPE
 2. LAST 1/2" OF MATERIAL, 4" SEE CONFINEMENT FOR ASPHALT AND 6" FOR CONCRETE, SEE FOR PLASTED AREAS
 3. 15 AND WIRE OR METAL TRACING TAPE PLACED ON TOP OF CONDUITS AND CONTINUOUS THROUGHOUT ENTIRE TRENCH LENGTH AND TERMINATING ON RISER UNITS OR ON GROUNDING BAR IN GROUND BOX.
 4. BOTTOM AND MIDDLE PLASTIC SPACERS EVERY 1'-2" SHALL BE USED WHERE CONDUITS HAVE TO BE STACKED ON TOP OF ONE ANOTHER, DUE TO SPACE LIMITATIONS, SHOWN AS REQUIRED.
 5. EXISTING SURFACE
 6. REPLACE TO MATCH EXISTING SURFACE
 7. SAND AT BOX COMPACTION
 8. 6" SAND BEDDING (MIN.)
 9. 4-6" CONDUITS



H WALL MOUNT PANELS AND BACKBOARD DETAILS
FA501 NTS



G CABINET INSTALLATION DETAILS
FA501 NTS



Architectural NEXUS, Inc.
1900 3rd Street, Suite 500
San Francisco, CA 94111
T 916.443.5811
http://www.archnexus.com

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BURCHFIELD PRIMARY
SCHOOL FIRE ALARM**
400 FREMONT ST COLUSA, CA 95932

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Date Revision

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