

SSH JV

# Milpitas Station Fire Alarm Design Unit 023 – Work Package 06 Definitive Design

SVBX C700

Thursday, February 14, 2013

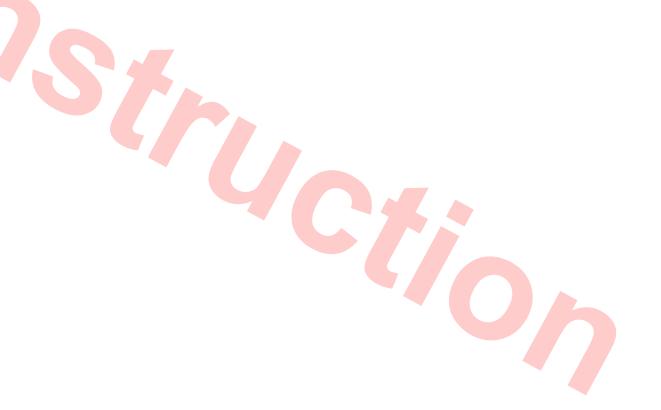
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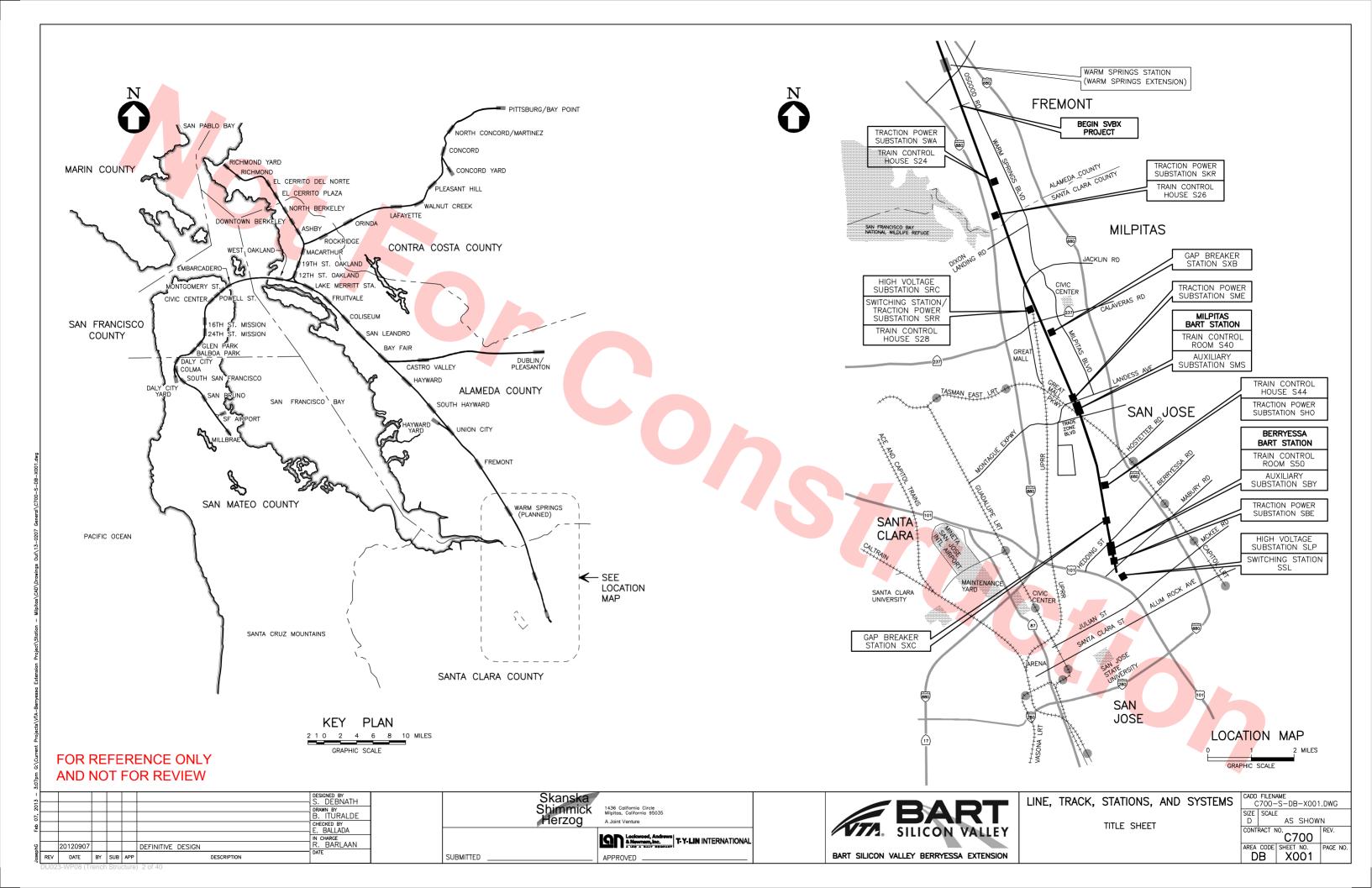


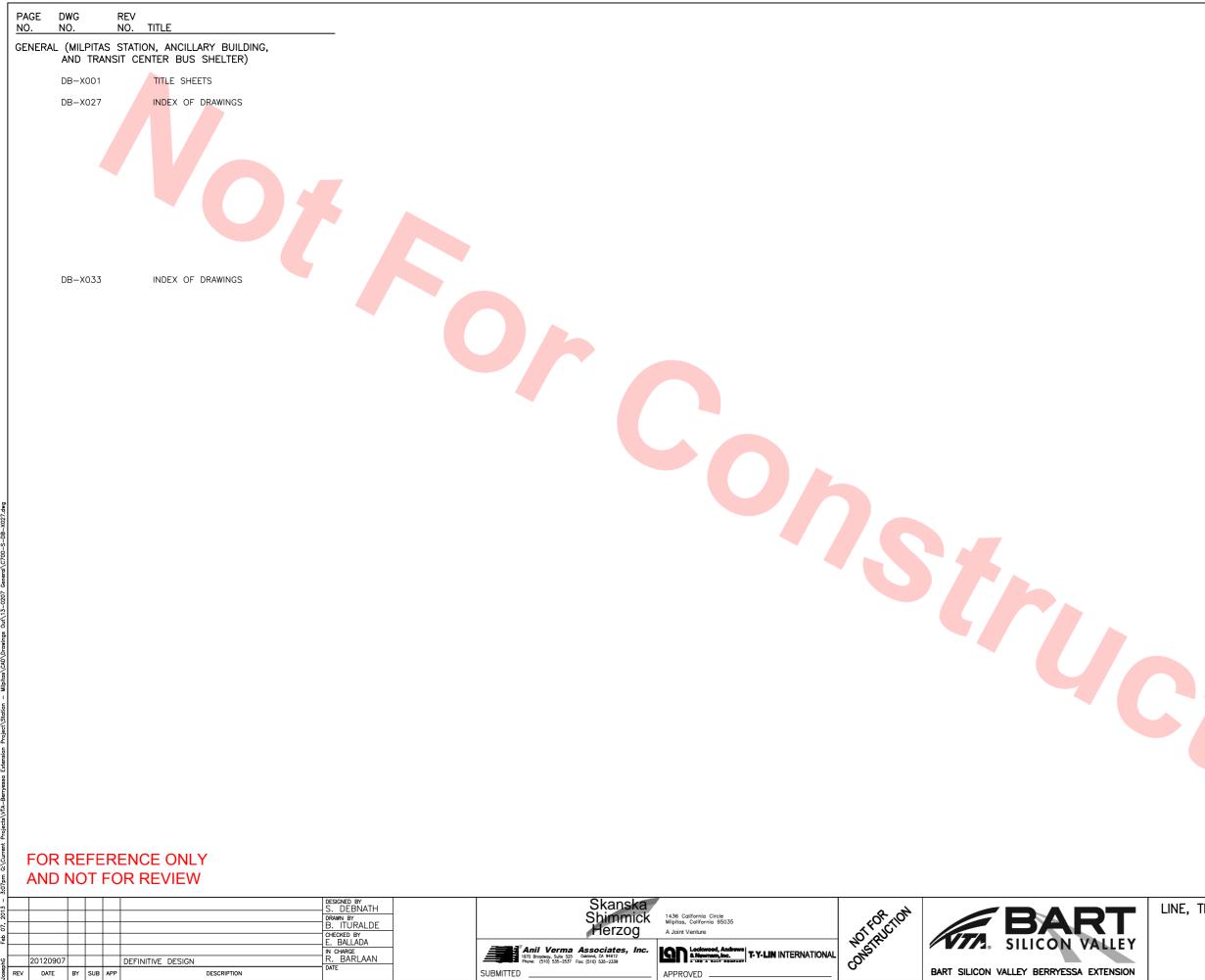
**TYLININTERNATIONAL** engineers | planners | scientists

FOR REFERENCE ONLY AND NOT FOR REVIEW

# DU-023







•	LINE, TRACK, STATIONS, AND SYSTEMS MILPITAS STATION	CADD FILENAME C700-S-DB-X027.dwg SIZE SCALE D NONE
	INDEX OF DRAWINGS	CONTRACT NO. C700 AREA CODE SHEET NO. DB X027

DWG NO.	REV NO. TITLE		PAGE NO.	DWG NO.	REV NO.	TITLE	PAGE NO.	DWG NO.	REV NO.	TITLE
			FIRE A	LARM						
AS STATION -	FIRE ALARM			DB-E724		CONCOURSE LEVEL PLAN FIRE ALARM SYSTEM SHEET 4 OF 6		DB-E757		FIRE ALARM RISER DIAGRAM PART -
COVER SHEE	т							DB-E758		FIRE ALARM RISER DIAGRAM PART -
DB-E700	FIRE ALARM COV	ER SHEET		DB-E725		CONCOURSE LEVEL PLAN FIRE ALARM SYSTEM SHEET 5 OF 6		DB-E759		RESERVED FOR OTHER FIRE ALARM
DB-E701	FIRE ALARM EQU	IPMENT LIST		DB-E726		CONCOURSE LEVEL PLAN FIRE ALARM SYSTEM SHEET 6 OF 6		DD 5700 T	~	MISCELLANEOUS SHEETS
DB-E702		CELLANEOUS DETAILS		DB-E727		ANCILLARY BUILDING FIRE ALARM SYSTEM		DB-E760 T DB-E779 -		RESERVED FOR OTHER FIRE ALARM MISCELLANEOUS SHEETS
DB-E703		UENCE OF OPERATION		DB-E728		NOT USED				MISUELLANEUUS SHEETS
DB-E704	LEFT BLANKED IN			DB-E720		NOT USED				
DB-E705	LEFT BLANKED I			DB-E720		KEY PLAN LOWER ROOF AND MEZZANINE				
DB-E706	LEFT BLANKED I			DD 2,00		LEVEL FIRE ALARM SYSTEM				
DB-E707	LEFT BLANKED I			DB-E731		LOWER ROOF AND MEZZANINE LEVEL PLAN FIRE ALARM SYSTEM SHEET 1 OF 3				
DB-E708	LEFT BLANKED I			DB-E732		LOWER ROOF AND MEZZANINE LEVEL PLAN				
DB-E709	LEFT BLANKED II	NTENTIONALLY		00 1/32		FIRE ALARM SYSTEM SHEET 2 OF 3				
PLANS				DB-E733		LOWER ROOF AND MEZZANINE LEVEL PLAN FIRE ALARM SYSTEM SHEET 3 OF 3				
DB-E710	KEY PLAN PLATF			DB-E734		NOT USED				
	FIRE ALARM SYS			DB-E735		NOT USED				
DB-E711	PLATFORM LEVEL SYSTEM SHEET 1	. PLAN FIRE ALARM I OF 6		DB-E736		NOT USED				
DB-E712		PLAN FIRE ALARM		DB-E737		NOT USED				
	SYSTEM SHEET 2			DB-E738		NOT USED				
DB-E713	PLATFORM LEVEL SYSTEM SHEET 3	. PLAN FIRE ALARM 3 OF 6		DB-E739		NOT USED				
DB-E714		PLAN FIRE ALARM		DB-E740		KEY PLAN ROOF LEVEL				
DB-E715	SYSTEM SHEET 4					FIRE ALARM SYSTEM				
DB-E/15	SYSTEM SHEET 5	DEAN FIRE ALARM		DB-E741		ROOF LEVEL PLAN FIRE ALARM SYSTEM SHEET 1 OF 4				
DB-E716	PLATFORM LEVEL SYSTEM SHEET 6	. PLAN FIRE ALARM		DB-E742		ROOF LEVEL PLAN FIRE ALARM				
DB-E717	NOT USED					SYSTEM SHEET 2 OF 4				
DB-E718	NOT USED			DB-E743		ROOF LEVEL PLAN FIRE ALARM SYSTEM SHEET 3 OF 4				
DB-E719	NOT USED			DB-E744		ROOF LEVEL PLAN FIRE ALARM				
DB-E719	KEY PLAN CONC					SYSTEM SHEET 4 OF 4				
50 L/20	FIRE ALARM SYS			DB-E745		NOT USED				
DB-E721	CONCOURSE LEV SYSTEM SHEET 1	EL PLAN FIRE ALARM		DB-E746		NOT USED				
DB-E722		EL PLAN FIRE ALARM		DB-E747		NOT USED				
JJ-L/22	SYSTEM SHEET 2			DB-E748		NOT USED				
DB-E723	CONCOURSE LEV SYSTEM SHEET 3	EL PLAN FIRE ALARM		DB-E749		NOT USED				
	JIJILM JHELL			DB-E750		FIRE ALARM CONTROL UNIT DETAILS OUTER & INNER DOOR				
				DB-E751		FIRE ALARM CONTROL UNIT DETAILS				
				DB-E752		FIRE ALARM POWER SUPPLY DETAILS				
						STROBE CIRCUIT SCHEDULE				
				DB-E753		FIRE ALARM BATTERY AND VOLTAGE DROP CALCULATIONS				
				DB-E754		FIRE ALARM FIELD DEVICES WIRING DETAILS PART-1				
				DB-E755		FIRE ALARM FIELD DEVICES WIRING DETAILS PART-2				
				DB-E756		FIRE ALARM FIELD DEVICES				
	ENCE ONLY			00 2700		WIRING DETAILS PART-3				
	OR REVIEW									

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•	LINE, TRACK, STATIONS, AND SYSTEMS MILPITAS STATION	CADD FILENAME C700-S-DB-X033.dwg SIZE SCALE D NONE
	INDEX OF DRAWINGS	CONTRACT NO. REV.
1	SHEET 7 OF 7	DB X033

	AS STATION S40	FIRE ALARM GE
		1. NO WORK ON THE FIRE ALARMS SYSTEM SHALL BEGIN WITHOU
	RYESSA EXTENSION PROJECT	<ol> <li>INSTALLATION SHALL BE IN STRICT CONFORMANCE WITH THE C AMENDMENTS, STATE CODE(S), AND/OR STATE FIRE MARSHAL.</li> </ol>
MILP	E. CAPITOL AVE PITAS, CA 95035	<ol> <li>ANY DEVIATION FROM THE DESIGN AND LOCATION OF EQUIPME SIEMENS INDUSTRY, INC. (SIEMENS). ANY DEVIATION FROM DES (BLUEPRINTS) AND RETURNED TO SIEMENS AT TIME OF JOB C</li> </ol>
	LARM SYSTEM	<ol> <li>INSTALLATION MATERIALS (I.E. CONDUIT, WIRE, FITTINGS, HANGE CONTRCATOR.</li> </ol>
FIRE ALARM SYSTEM SCOPE OF WORK	APPLICABLE CODES	<ol> <li>WIRING SHALL BE PER PLAN WITH RESPECT TO CONDUCTOR S PERMANENTLY MARKED FOR FUTURE IDENTIFICATION.</li> </ol>
1. SIEMENS INDUSTRY INC. SHALL SUPPLY DESIGN, PARTS AND PROGRAMMING NECESSARY FOR MILPITAS STATION (EXCLUDING POC	ADMINISTRATION: 2010 CALIFORNIA ADMINISTRATION CODE (CAC) PART 1, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)	6. CONDUIT KNOCKOUTS ARE PROVIDED ON ALL MANUFACTURERS CONDUIT ENTRY WITHOUT PRIOR APPROVAL OF SIEMENS.
AREAS) AND BART PORTION OF ANCILLARY BUILDING AS SHOWN ON THE DRAWINGS.	BUILDING: 2010 CALIFORNIA BUILDING CODE (CBC) PART 2, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)	7. CONDUIT RUNS SHALL NOT DEVIATE FROM FROM APPROVED SI
2. POC AREAS AND VTA PORTION OF ANCILLARY BUILDING MUST BE SERVED BY EXISTING VTA FIRE ALARM SYSTEM. IT IS NOT UNDER	ELECTRICAL: 2010 CALIFORNIA ELECTICAL CODE (CEC) PART 3, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)	8. CONDUCTOR TERMINATIONS SHALL BE BRADY OR EQUALLY LAB
SIEMENS SCOPE OF WORK TO PROVIDE PARTS AND FIRE ALARM SYSTEM DESIGN FOR THESE AREAS.	MECHANICAL: 2010 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)	9. ALL FIRE ALARM CIRCUITS ARE CONTINUOUS FROM DEVICE TO MADE UNLESS IN AN APPROVED JUNCTION BOX ON APPROVED
2. INSTALLATION OF OUTLET BOXES, CONDUIT, AND, WIRING OF FIRE ALARM DEVICES BY ELECTRICAL CONTRACTOR.	PLUMBING: 2010 CALIFORNIA PLUMBING CODE (CPC) PART 5, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)	10. DETECTOR AND AUDIBLE/VISUAL CIRCUIT POLARITY SHALL BE (
3. SIEMENS INDUSTRY INC. SHALL PROVIDE INSPECTION & TESTING FOR	FIRE: 2010 CALIFORNIA FIRE CODE (CFC) PART 9, TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)	11. AUDIBLE/VISUAL CIRCUIT WIRING IS SUPERVISED. NO PARALLEL
A COMPLETE AND OPERATIONAL FIRE ALARM SYSTEM. 4. SIEMENS INDUSTRY INC. SHALL PROVIDE A FUNCTIONAL PRE-TEST	ADAAG: 2010 AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)	12. 120 VAC POWER SHALL NOT BE APPLIED TO FIRE ALARM PAN
OF THE FIRE ALARM SYSTEM PRIOR TO CALLING FOR THE FINAL TEST.		13. STANDARD CONTROL PANEL, TERMINAL BOXES ETC. MOUNTING OTHERWISE NOTED.
5. UPON COMPLETION OF THE INSTALLATION AN OPERATIONAL ACCEPTANCE TEST OF THE SYSTEM SHALL BE MADE IN THE		14. FIGURES ADJACENT TO ANY INITIATING DEVICE DESIGNATE FIRE
PRESENCE OF THE INSPECTOR OF RECORD AND/OR AUTHORITY HAVING JURISDICTION.		15. FIGURES ADJACENT TO ANY AUDIBLE/VISUAL DEVICE DESIGNATE
<ol> <li>AFTER COMPLETION OF THE OPERATIONAL ACCEPTANCE TEST A "RECORD OF COMPLETION" PER NFPA 72–10.18.2.1.1 SHALL BE</li> </ol>		16. WHERE DETECTORS ARE INSTALLED FOR SIGNAL INITIATION DUR OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY, OR THE SYSTEM PER NFPA 72-17.7.1.11.1, AT AN ADDITIONAL CO
PROVIDED TO THE INSPECTOR OF RECORD.	NFPA STANDARDS	17. WHERE DETECTORS ARE INSTALLED BUT NOT OPERATIONAL DU CONSTRUCTION DEBRIS, DUST, DIRT, AND DAMAGE IN ACCORDA OPERATING IN ACCORDANCE WITH THE LISTED SENSITIVITY, OR
1. SHOWN IN THIS DRAWING SET IS SIEMENS ENGINEERED FIRE ALARM	NFPA NATIONAL FIRE PROTECTION ASSOCIATION	THE SYSTEM PER NFPA 72-17.7.1.11.2, AT AN ADDITIONAL CO
SYSTEM PER CONTRACTUAL DESIGN DRAWINGS AND SPECIFICATIONS.	NFPA 13 2010 STANDARD FOR THE INSTALLATION OF FIRE SPRINKLER SYSTEM	18. WHERE DETECTION IS NOT REQUIRED DURING CONSTRUCTION, TRADES HAVE COMPLETED CLEANUP PER NFPA 72-17.7.1.11.3
<ol> <li>CONTRACTOR SHALL NOT DEVIATE BY NOT MORE THAN 5% FROM THE FINAL APPROVED SHOP DRAWINGS.</li> </ol>	NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE	19. SMOKE DETECTORS THAT ARE USED EXCLUSIVELY FOR SMOKE BY NFPA 72-17.7.5.6.
3. WIRE RUNS HAVE BEEN ENGINEERED TO COMPLY WITH SPECIFIC VOLTAGE DROP REQUIREMENTS. ANY DEVIATION FROM SHOWN WIRE RUNS WHICH RESULTS IN NON-COMPLIANCE WITH VOLTAGE DROP REQUIREMENTS SHALL BE THE SOLE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.		20. DETECTORS ARE NOT TO BE LOCATED WITHIN 3'-O" OF ANY A SHALL NOT BE PLACED WHERE RETURN AIR MOVEMENT SHALL OPERATION OF THE SMOKE DETECTOR.
4. IF DURING INSTALLATION, CONTRACTOR DEVIATES BY MORE THAN 5%		21. PENETRATIONS OF RATED ASSEMBLIES REQUIRING OPENING PRO SYSTEM TO MAINTAIN THE FIRE RESISTANCE RATING OF THE AS
FROM THE SHOP DRAWINGS, CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ADDITIONAL ENGINEERING COSTS THAT MAY		22. CONNECT FIRE ALARM PANEL TO LIFE SAFETY BRANCH OF THE
ARISE TO ACCOMMODATE INCLUSION OF THESE DEVIATIONS ON RECORD DRAWINGS (AS-BUILTS).		23. ALL MANUAL PULL STATIONS SHALL <mark>BE I</mark> NSTALLE <mark>D SU</mark> CH THAT THAN 42 IN. (1.1 m) AND NOT MORE THAN 48 IN. (1.37 m)
<ol> <li>THESE SUBMITTED SHOP DRAWINGS ARE COMPLETE. SIEMENS SHALL NOT BEAR ANY ADDITIONAL COSTS OF RE-ENGINEERING RECORD DRAWINGS (AS-BUILTS).</li> </ol>		23. ALL AUDIBLE/VISUAL DEVICES SHALL BE MOUNTED SUCH THAT 96" A.F.F. AS TO CONFORM TO NFPA 72-18.5.4.1 (SEE NFPA 7
6. SIEMENS SHALL NOT BEAR ANY LIABILITY FOR ENGINEERED DESIGN IF		24. ALL 120 VAC POWER SOURCES SHALL BE ON DEDICATED CIRC
MORE THAN 5% DEVIATION HAS OCCURRED DURING INSTALLATION.		WITH NFPA 72-10.5.5.3. 25. ALL 24 VDC WIRE TO BE INSTALLED IN DEDICATED CONDUIT S
		23. ALL 24 VDC WIRE TO BE INSTALLED IN DEDICATED CONDUT S 26. REVIEW SEQUENCE OF SYSTEM OPERATION ON INPUT/OUTPUT
FIRE ALARM SYSTEM DESCRIPTION	FIRE ALARM MONITORING	27. INSTALLING CONTRACTOR SHALL RETURN ONE SET OF ACCURA
1. FIRE ALARM SYSTEM IS INDIVIDUALLY ADDRESSABLE MANUAL FIRE ALARM SYSTEM WITH SUPPLEMENTARY AUTOMATIC FIRE ALARM DEVICES.		<ol> <li>28. THE SECONDARY POWER SUPPLY SHALL CONSIST OF STORAGE SYSTEM UNDER QUIESCENT LOAD (NONALARM CONDITION) FOR BE CAPABLE OF OPERATING ALL ALARM NOTIFICATION APPLIANCE</li> </ol>
2. INITIATING DEVICE CIRCUITS (IDC) IS CLASS B. FOR REFERENCE ONLY 3. NOTIFICATION ALARM CIRCUITS (NAC) IS CLASS A. AND NOT FOR REVIEW 4. SIGNALING LINE CIRCUITS (SLC) IS CLASS X.		
DESIGNED BY V. SINGH DRAWN BY	Skanska	
V. SINGH CHECKED BY	Shimmick Herzog A John Venture	NAL CONSTRUCTION BART SILICON VALLEY BERRYESSA EXTENSION
F. CASABONNE	SIEMENS Industry, Inc. Fire Safety Division Fire S	No Re VIII SILICON VALLEY
20130125 DEFINITIVE DESIGN	SIEMEINS Industry, Inc. "Steamar Cations subscreams" File Safety Division Technology Strategy Contract	INAL CAN'S

## GENERAL NOTES

THOUT APPROVED PLANS AND SIGNED PERMITS.

IE CALIFORNIA ELECTRICAL CODE, NFPA 72; 2010 EDITION WITH CALIFORNIA HAL.

IPMENT SHOWN MUST FIRST HAVE A WRITTEN APPROVAL FROM VTA/BART & DESIGN MUST ALSO BE INDICATED ON SIEMENS SHOP DRAWINGS DB COMPLETION.

ANGERS, AND STANDARD BOXES) SHALL BE PROVIDED BY ELECTRICAL

DR SIZE, TYPE, QUANTITY AND COLOR CODE. CONDUCTORS SHALL BE

RERS PROVIDED BACK BOXES. DO NOT ENLARGE OR CHANGE LOCATION OF

D SHOP DRAWINGS.

LABELED.

TO DEVICE. NO SPLICES OR INTERIM CIRCUIT CONNECTIONS SHALL BE DVED TERMINAL BLOCKS.

BE OBSERVED.

LLEL BRANCHING IS PERMISSIBLE.

PANEL WITHOUT DIRECT SUPERVISION OF A SIEMENS TECHNICIAN.

TING IS 6'-0" FROM FINISHED FLOOR TO TOP OF DEVICE UNLESS

FIRE LOOP AND ADDRESS NUMBER.

NATE CIRCUIT AND ADDRESS NUMBER.

DURING CONSTRUCTION, THEY SHALL BE CLEANED AND VERIFIED TO BE OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF L COST TO THE CONTRACTOR.

DURING CONSTRUCTION, THEY SHALL BE PROTECTED FROM DRDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND VERIFIED TO BE OR THEY SHALL BE REPLACED PRIOR TO THE FINAL COMMISSIONING OF L COST TO THE CONTRACTOR.

ON, DETECTORS SHALL NOT BE INSTALLED UNTIL ALL OTHER CONSTRUCTION .11.3.

OKE DOOR RELEASE SERVICE SHALL BE LOCATED AND SPACED AS REQUIRED

NY AIR SUPPLY DIFFUSER, IN ACCORDANCE WITH NFPA 72-A.17.7.4.1, AND HALL EXCEED THE MANUFACTURERS RECOMMENDATION AS TO AFFECT THE

PROTECTION SHALL USE AN APPROVED THROUGH PENETRATION FIRE STOP IE ASSEMBLY PENETRATED CBC 713.

THE EMERGENCY CIRCUIT.

THAT THE OPERABLE PART OF EACH PULL STATION SHALL BE NOT LESS m) ABOVE FLOOR LEVEL. NFPA 72-17.14.4.

THAT THE ENTIRE LENS IS NOT LESS THAN 80" AND NOT GREATER THAN PA 72–18.4.8.1 FOR AUDIBLES ONLY).

CIRCUITS WITH A CIRCUIT BREAKER LOCK AND A LABEL IN ACCORDANCE

IIT SEPARATE FROM 120 VAC WIRING.

PUT MATRIX.

URATELY MARKED DRAWINGS FOR "AS BUILT" PURPOSES.

RAGE BATTERIES THAT SHALL HAV<mark>E SUFFICIENT</mark> CAPACITY TO OPERATE THE FOR A MINIMUM OF 4 HOURS AND, AT THE END OF THAT PERIOD SHALL LIANCES FOR 15 MINUTES PER NFPA 72–10.5.6.3.1.

	LINE, TRACK, STATIONS AND SYSTEMS	cadd C		ME S-DB-E700	).dwg
	MILPITAS STATION	size D	SCALE	NONE	
1	FIRE ALARM	CONTR	RACT N	<sup>0.</sup> C700	REV.
1	COVER SHEET	area D	code B	sheet no. E700	PAGE NO.

# FIRE ALARM EQUIPMENT LIST

FIRE	ALARM	EQUIPMENT LIST	

CATE-ITEM GORY NO. SYMBOL QTY

	ITEM NO.	SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MANUFACTURER	DATA SHEET NUMBER	CALIFORNIA STATE FIRE MARSHAL LISTING NUMBER
	1	FACU	1	CAB3-BB	LARGE SIZE (3 ROW) ENCLOSURE BACKBOX BLACK	SIEMENS	6327	7165-0067:0222
	2		1	CAB3-BD	LARGE (3 ROW) INNER & OUTER DOOR BLACK	SIEMENS	6327	7165-0067:0222
	3		2	OD-LP	OUTER DOOR CLEAR LENS PLATE	SIEMENS	6327	7165-0067:0222
	4		1	OD-BP	OUTER DOOR BLANK PLATE	SIEMENS	6327	7165-0067:0222
	5		2	ID-SP	INNER DOOR SINGLE MODULE BLANK PLATE (2 PER PACKAGE)	SIEMENS	6327	7165-0067:0222
	6		1	ID-FP	INNER DOOR FOUR MODULE BLANK PLATE	SIEMENS	6327	7165-0067:0222
	7		2	ID-MP	MOUNTING PLATE/BRACKET	SIEMENS	6327	
	8		1	BCM	BLANK PLATE FOR ID-MP (4 PLATES)	SIEMENS	6317	
	9		1	CC-5	CARD CAGE – 5 SLOTS	SIEMENS	6321	7165-0067:0222
	10		2	CCL	30" LONG 6 WIRE CABLE (P <mark>/N 59</mark> 9-634214)	SIEMENS	6317	
	11		2	BCL	40" LONG 60 PIN WIRE CABLE (P/N 555-133743)	SIEMENS		
	12	Б	1	CC-5	CARD CAGE – 5 SLOTS	SIEMENS	6321	7165-0067:0222
1	13	IC4A-	1	ZIC-4A	ZONE INDICATING CARD	SIEMENS	6315	7165-0067:0222
. LEVEL	14	Z-0	1	DLC	DEVICE LOOP CARD	SIEMENS	6312	7165-0067:0222
	15	XLS-250-ZIC4A-EP	1	PMI	PERSON MACHINE INTERFACE	SIEMENS	6329	7165-0067:0222
CUNCUURSE	16	XLS	1	PSC-12	12A POWER SUPPLY	SIEMENS	6322	7165-0067:0222
	17		1	NIC-C	NETWORK INTERFACE CARD	SIEMENS	6338	7165-0067:0222
0	18		1	DAC-NET	DIGITAL AUDIO CARD	SIEMENS	6334	6912-0067:0237
FALU LUL	19		1	ZAC-40	ZONE AMPLIFIER MODULE (40 WATTS)	SIEMENS	ххххх	XXXXXXXXXX
FAC	20		1	LPB	LIVE PAGE BOARD	SIEMENS		6912-0067:0237
MAIN	21 1 LVM				LIVE VOICE MODULE	SIEMENS	6333	6912-0067:0237
	22		1	FMT	FIREMAN'S MASTER TELEPHONE	SIEMENS	6335	6912-0067:0237
	23	23 1 PSX-12			POWER SUPPLY EXTENDER	SIEMENS	6322	7165-0067:0222
	24				SURGE SUPPRESSOR	SIEMENS		7300-0067:0172
	25		1	CAB-BATT	BATTERY CABINET	SIEMENS	6322	7165-0067:0222
	26		2	PS-121000	100 AMP/HOUR BATTERY (12 VDC)	POWER SONIC		NOT APPLICABLE
	27		1	MDACT	MULTIPOINT DIGITAL ALARM COMMUNICATOR	SIEMENS	5074	7300-0067:0172
	28		1	XMI	FIREFINDER XLS-MXL INTERFACE CARD	SIEMENS	5074	7300-0067:0172
	29		1	MOM2-XMP	MOUNTING PLATE	SIEMENS	5074	7300-0067:0172
	30		1	MOM-2	NETWORK OPTION MODULE CARD CAGE	SIEMENS	5043	7300-0067:0172
	31							
	32		1	TSP-40A	THERMAL STRIP PRINTER	SIEMENS	5007	7300-0067:0172
	33	£	1	TSP-40-PP	TSP-40 PRINTER PAPER	SIEMENS	5007	
	34	PRINTER	1	TSP-XB	XLSTSP-40A BRACKETS	SIEMENS	5007	
	35	ЪŖ	1	TSP-XC	XLSTSP-40A CABLES	SIEMENS	5007	
	36							
	37	FAA	1	SSD-C	) SIEMENS	5043	7300-0067:0172	
	38		4	PS-8	NAC EXTENDER POWER SUPPLY PANEL (RED)	COOPER WHEELOCK		7315-0785:0167
	39		4	PS-EXP	4 CLASS B or 2 CLASS A EXPANSION MODULE	SPACE AGE		NOT APPLICABLE
	40	NAC	8	PS-1270	7 AMP/HOUR BATTERY (12 VDC)	POWER SONIC		NOT APPLICABLE
	41							
	42							

			•				
ITEM	SYMBOL	QTY	MODEL NUMBER	DESCRIPTION	MANUFACTURER	DATA SHEET NUMBER	CALIFORNIA STATE FIRE MARSHAL LISTING NUMBER
43	0	Х	HFP-11	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR	SIEMENS	6301	7272-0067:0203
44		Х	DB-11	SIEMENS	6301	7300-0067:0134	
45	X		HFP-11	INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR	SIEMENS	6301	7272-0067:0203
46	∕∂ <sub>RB</sub>	Х	DB-HR	DETECTOR RELAY BASE FOR HFP-11 DETECTOR	SIEMENS	6301	7300-0067:0134
47		Х	HFPT-11	INTELLIGENT THERMAL DETECTOR	SIEMENS	6302	7270-0067:0224
48		Х	DB-11	DETECTOR BASE FOR HFPT-11 DETECTOR	SIEMENS	6302	7300-0067:0134
49		Х	HFP-11	INTELLIGENT FIRE DETECTOR	SIEMENS	6301	7272-0067:0203
50	505	SOS X AD2-XHR		RELAY BASE FOR H SERIES DETECTOR	SIEMENS	6185	3240-0067:0245
51	WP X WP-2000		WP-2000	WEATHERPROOF BACKBOX	SIEMENS		NOT APPLICABLE
52		Х	ST-50	SAMPLING TUBE FOR DUCTS 3' TO 5'	SIEMENS	6185	NOT APPLICABLE
53	RM	Х	HTRI-R	INTELLIGENT INTERFACE MODULE W/RELAY	SIEMENS	6304	7165-0067:0222
54	DM	Х	HTRI-D	INTELLIGENT INTERFACE MODULE DUAL INPUT	SIEMENS	6304	7165-0067:0222
55	HTRI-S	Х	HTRI-S	INTELLIGENT INTERFACE MODULE SINGLE INPUT	SIEMENS	6304	7165-0067:0222
56	M	Х	HTRI-M	INTELLIGENT INTERFACE MODULE SINGLE INPUT	SIEMENS	6304	7165-0067:0222
57	P	Х	HMS-D	INTELLIGENT MANUAL PULL STATION (DUAL ACTION)	SIEMENS	6306	7150-0067:0036
58	P	Х	MSM-K-WP	CONVENTIONAL WEATHERPRROF PULL STATION	SIEMENS	6184	7150-0067:0215
59	WP	Х	MSM-BOX	SURFACE BACKBOX FOR MSM-SERIES PULL STSTION	SIEMENS	6184	NOT APPLICABLE
60							
61	51 DSM X DSM-12/24 DUAL SYNCHRO			DUAL SYNCHRONIZATION CONTROL MODULE	COOPER WHEELOCK		7300-0785:0132
62							
63							
64							
65	HXXXCD	Х	STW	MULTI CANDELA (15/30/75/110) STROBE (RED) WALL MOUNTED	COOPER WHEELOCK		7125-0785:0168
66							
67	ربہ 30cd	Х	RSSWP-2475W-FR	WEATHERPROOF STROBE (RED) WALL MOUNTED	COOPER WHEELOCK		7300-0785:0154
68	HX 30cd	Х	WFP	WEATHERPROOF BACKBOX (FLUSH MOUNT)	COOP <mark>ER WHE</mark> ELOCK		NOT APPLICABLE
69		Х	E50-24MCW-FR	MULTI CANDELA (15/30/75/110) SPEAKER/ STROBE (RED) WALL MOUNTED	COOPER WHEELOCK		7 <mark>300-078</mark> 5:0165
70	H⊠ <b>∢_</b> _CD W						
71							
72		Х	ET70WP-2475W -FR	WEATHERPROOF SPEAKER/STROBE 30 CANDELA (RED) WALL MOUNTED	COOPER WHEELOCK		7300-0785:0146
73		Х	WFP	WEATHERPROOF BACKBOX (FLUSH MOUNT)	COOPER WHEELOCK		NOT APPLICABLE
74	WP	Х	IOB	WEATHERPROOF BACKBOX (FLUSH MOUNT)	COOPER WHEELOCK		NOT APPLICABLE
75							
76							
77		Х	E50-W	SPEAKER ONLY DEVICE (RED) WALL MOUNTED	COOPER WHEELOCK		7320-0785:0134
78	H⊐ <b>∙</b> _w						
79							
80							
81							
82							
83							
84							
-							

## FOR REFERENCE ONLY AND NOT FOR REVIEW

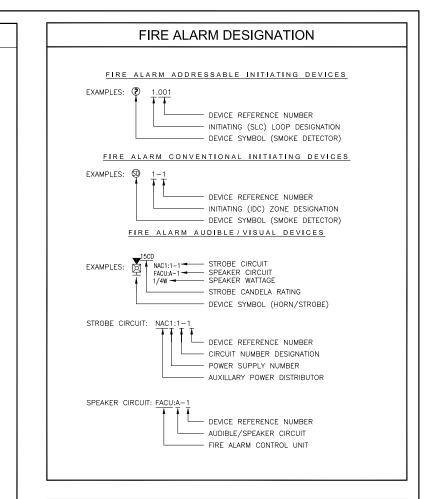
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hV Jan 24, 2013 – 1	2	0130125		DEFINITIVE DESIGN	DESIGNED BY V. SINGH DRAWN BY V. SINGH CHECKED BY F. CASABONNE IN CHARGE F. CASABONNE DATE	SIEMENS Industry, Inc. Fire Satety Division	Skanska Shimmick Herzog Market Market Market States Herzog Locates U.Cettale Disk States	1436 California Circle Milpitas, California 95035 A Joint Venture Manual Andrews A Newman, Inc. Lico Latvice States T.Y.LIN INTERNATIONAL	NOT FOR TION	BART SILICON VALLEY BERRYESSA EXTENSION
Sing	REV	DATE	BY SUB API	DESCRIPTION	20130125	SUBMITTED		APPROVED		BART SILICON VALLET BERRTESSA EXTENSION
D	U023-	WP08 (T	ench Structur	e) 6 of 40						F. C.

ORY

	F	IRE ALARM EQUIPMEN	T LIS <sup>-</sup>	Г			
M NU	ODEL MBER	DESCRIPTION	MANUFACTI	JRER	DATA SHEET NUMBER	CALIFOR FIRE I	NIA STATE MARSHAL NUMBER
RSE	-L-GR	KIRKLAND ANNUNCIATOR 29.25"W X 24.25"W	KIRKLAN				1178:0100
OCN	<i>I</i> -16	OUTPUT CONTROL MODULE	SIEMEN	S	6318	7165-0	067:0222
SIM	-16	INPUT CONTROL MODULE	SIEMEN	S	6319	7165-0	067:0222
				ADD F	ILENAME		
•	LINE	, TRACK, STATIONS AND SYSTE	-MS	C7	00-S-	DB-E7	01.dwg
		MILPITAS STATION				NONE	
		FIRE ALARM			CT NO.	2700	REV.
1		EQUIPMENT LIST	A	rea ci DE	ode she 3 E	ет no. 2701	PAGE NC
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	F	ECOMMENDED WIR	ING SCHEDULE	MISCELLANEOUS DETAILS
	SYMBOL	RECOMMENDED WIRE TYPE	USED ON	
	A	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE Cable Part Number: F1TP16SRD-FPLR (CONDUIT)	ADDRESSABLE ALARM INITIATING DEVICES: – HFP-SERIES SMOKE DETECTORS – HTRI-SERIES INTERFACE MODULES – AD-SERIES DUCT DETECTORS – HMS-SERIES PULL STATION	
	,, B, ,	2-CONDUCTOR, #12 AWG SOLID or STRANDED (PER NEC) Coble Part Number: FA-1202C-1-1N-03 (CONDUIT)	NOTIFICATION APPLIANCE CIRCUIT: – STROBE CIRCUIT	
	¢ ,	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE Cable Part Number: F1TP16SRD-FPLR (CONDUIT)	VOICE AUDIO CIRCUIT: - SPEAKER CIRCUIT	
	۲ ۲ ۲ ۲	2-CONDUCTOR, #12 AWG SOLD or STRANDED (PER NEC) Cable Part Number: FA-1202C-1-1N-03 (CONDUIT)	24 VDC POWER TO: - FIRE ALARM PANELS - DOOR HOLDERS - NURSE CALL DOME LIGHT	STROBE UNIT (Wall mounted) SPEAKER/STROBE UNIT (Wall mounted) (Wall mounted) WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80 INCHES (2.03 m)
	F F	2-CONDUCTOR, #16 AWG SOLD TWISTED CABLE Cable Part Number: F1TP16SRD-FPLR (CONDUIT)	TELEPHONE CIRCUIT: - FIREFIGHTER'S TELEPHONE JACK - FIREFIGTER'S REMOTE TELEPHONE STATION	AND OT GREATER THAN 96 INCHES (2.4.3 m) AND OT GREATER THAN 96 INCHES (2.4.3 m) G HEIGHT SPECIFIED USING PERFORMANCE-BASED ALTERNATIVE OF NFPA 72, 2010 EDITION
	ç	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE Cable Part Number: F1TP16SRD-FPLR (CONDUIT)	MISCELLANEOUS FIELD DEVICES: - HTRI to MONITORED DEVICES - WATERFLOW SWITCH / TAMPER SWITCH	FINISHED FLOOR
	× • • • • • • • • • • • • • • • • • • •	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE Cable Part Number: F1TP16SRD-FPLR (CONDUIT)	"H-NET" XLS NETWORK WIRING: - MODULES that "SPEAK" H-NET: (SSD-C (ANNUNCIATOR))	TYPICAL ELEVATION DETAIL OF AUDIBLE & VISUAL ALARM DEVICE
	<u>ب</u> م	2-CONDUCTOR, #16 AWG SOLID TWISTED SHIELDED CABLE Cable Part Number: F1TSP16SRD-FPLR (CONDUIT)	"CAN BUS" - NETWORK WIRING: - MODULES that "SPEAK" CAN: - NIC-C, PSC-12 to (RPM, SCM-8, LCM-8, FCM-8, SIM-16 / OCM-16)	
	، ب	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE Cable Part Number: F1TP16SRD-FPLR (CONDUIT)	VOICE AUDIO RISER: LOW LEVEL - DISTRIBUTED AMPLIFICATION (DAC-NET TO DAC-NET)	MANUAL STATION THE OPERABLE PART OF EACH MANUAL FIRE ALARM BOX SHALL BE NOT LESS THAN 42 INCHES AND NOT MORE
	, ×	2-CONDUCTOR, #16 AWG SOLID TWISTED CABLE Cable Part Number: F1TP16SRD-FPLR (CONDUIT)	"X-NET" GLOBAL NETWORK WIRING: - MODULES that "SPEAK" X-NET: (NIC-C / NIM-1W / NCC-1F)	42-48 INCHES
	۲ ۲	2-CONDUCTOR, #12 AWG SOLID or STRANDED (PER NEC) Coble Part Number: FA-1202C-1-1N-03 (CONDUIT)	EXTENDER PANEL ACTIVATION: – SIEMENS PAD–3 EXTENDER PANEL	TYPICAL ELEVATION DETAIL OF MANUAL PULL STATION
	120 VAC <del>- ///</del>	2-CONDUCTOR, #12 AWG SOLID, THHN (GROUNDED WIRE)	120 VAC POWER WIRING TO: – F.A. CONTROL PANELS – WHEELOCK PS-12/24-8 EXTENDER PANEL – POWER SUPPLY PANEL – FIRE ALARM PRINTERS	
FOR REFERENCE ONLY	2. WIRIN 3. COND 4. LOCAL 5. SEE 6. ALL V	S FOR NOTIFICATION APPLIANCE CIRCUIT IS 3 FOR SIGNAL LINE CIRCUIT IS CLASS X. JIT FILL < 40%, 3/4" CONDUIT. FIRE ALARM SYSTEM MONITORED BY A C VIRING GUIDELINES FOR CABLE TYPE USE. IRING SHALL BE IN A CONTINUOUS GRS ONDUITS SHALL BE CONCEALED.	SENTRAL STATION.	
AND NOT FOR REVIEW	L			
V	esigned by 7. SINGH rawn by		Skanska Shimmick 1436 California Circle	

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ĩ						DESIGNED BY V. SINGH		Skanska	7	、 、	
13						DRAWN BY		Shimmick	1436 California Circle	8.8	
8						V. SINGH			1436 California Circle Milpitas, California 95035		
23,						CHECKED BY		Herzog	A Joint Venture	NO AN	
5						F. CASABONNE	OFMENIC Industry, Inc.	SAN FRANCISCO BRANCH		Nr Ch	SILICON VALLEY
<u>٦</u>						IN CHARGE	SIEMENS Industry, Inc.	SAN FRANCISCO BRANCH 26821 Industrial Boulevard, Suite 300 Hayward, Calfornia 9445-2891 Tel (510) 783-5000 Fax (510) 283-2100 California State C10 Usane Ns. 756766 U.L. Centholate ID Ns. 324787-001	Lockwood, Andrews	NS.	
,	2	0130125			DEFINITIVE DESIGN	F. CASABONNE	Fire Safety Division	California State C10 License No. 758796 U.L. Certificate ID No. 324787-001	A LEO A BALY COMPANY	-0 <sup>7</sup>	
Singh'	REV	DATE	BY SUE	B APP	DESCRIPTION	20130125	SUBMITTED		APPROVED	0	BART SILICON VALLEY BERRYESSA EXTENSION
1	DU023-	WP08 (T	rench Str	ucture	) 7 of 40						



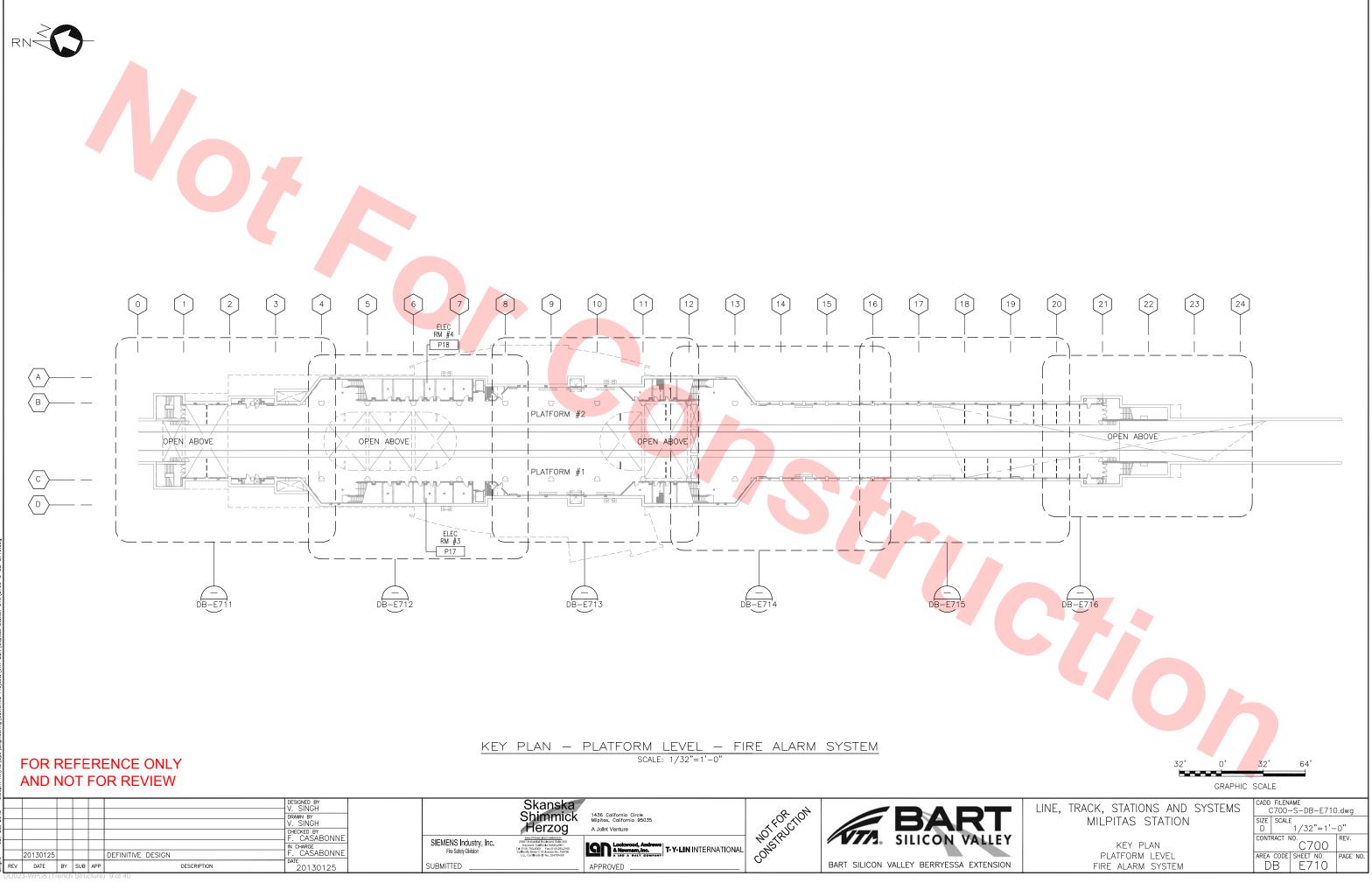
		MISCELLAN	EOUS	S DET	AILS		
	MANUFACTURER	PANEL DESCRIPTION	HEIGHT	WIDTH	DEPTH	WEIGHT	OSP NUMBER
	Siemens	FACU CAB-3 (XLSV)	62-1/2"	26-1/8"	6-7/8"	175 Lbs.	0057-10
	Siemens	CAB-BATT (100 A/H)	12-0"	26-1/8"	8-3/8"	135 Lbs.	0057-10
	Wheelock	PS-8	16.7"	14.8"	5.5 <b>"</b>	18 Lbs.	N/A
	Kirkland	FAN CONTROL PANEL	30.0"	30.0"	5.0"	30 Lbs.	0139-10
					2		

Γ	LINE, TRACK, STATIONS AND SYSTEMS MILPITAS STATION	CADD FILENAME C700-S-DB-E702.dwg SIZE SCALE D NONE
	FIRE ALARM MISCELLANEOUS DETAILS	CONTRACT NO. C700 AREA CODE SHEET NO. DB E702

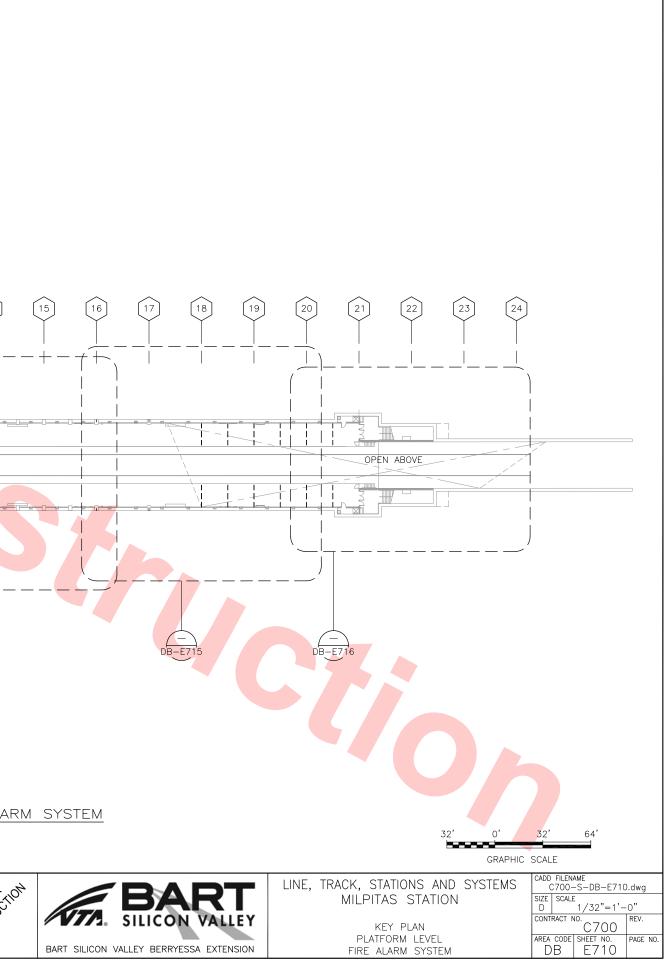
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			INPUT & OUTPUT MATRIX SYSTEM OUTPUTS	SYSTEM INPUTS	PULL STATION	SMOKE DETECTOR 1ST ALARM AREA SMOKE DETECTOR	AFTER ALANAM VENTICATION IN-DUCT SMOKE DETECTOR (FSD) AFTER AI ARM VERIFICATION	DUCT SMOKE DETECTOR (HVAC UNIT) AFTER ALARM VERIFICATION	AREA HEAT DETECTOR	ELEVATOR LOBBY SMOKE DETECTOR	MAIN FLOOR (CONCOURSE LEVEL) ELEVATOR LOBBY SMOKE DETECTOR	ALL FLOORS EXCEPT MAIN FLOOR SMOKE DETECTOR @ ELEVATOR SHAF	AND ELEVATOR MACHINE ROOM HEAT DETECTOR © ELEVATOR SHAFT AND FLEVATOR MACHINE ROOM	ELEVATOR MONITORING SHUNT TRIP POWER CIRCUIT		WALERFLOW SWITCH SUPERVISORY SWITCH (SDRINKLER CONTROL VALVE)	SUPERVISORY SWITCH VALVE) SUPERVISORY SWITCH (0S&Y VALVE)	FIRE PUMP RUNNING	FIRE PUMP POWER FAILURE FIRE PLIMP PHASE REVERSAL		ALARM FROM CLEAN AGENT SUPPRESSION SYSTEM	SUPERVISORY FROM CLEAN AGENT SUPPRESSION SYSTEM TROUBLE FROM CLEAN AGENT	SUPPRESSION SYSTEM	SYSTEM RESET	SIGNAL SILENCE	FIRE ALARM AC PUWER FAILURE FIDE ALARM SYSTEM LOW BATTERY		GROTIND FALIT	NOTIFICATION APPLIANCE		ALARM SIGNAL FROM PARKING STRUCTURE FACP	SUPERVISORY SIGNAL FROM PARKING STRIICTURE FACP	TROUBLE SIGNAL FROM PARKING STRUCTURE FACP		AUTOMATIC TRANSFER SWITCH (THE CONTROLLER MAIN SWITCH HAS_BEEN TURNED TO "0FF"	OR "MANUAL" POSITION DIESEL GENERATOR ENGINE RUNNING	GENERATOR TROUBLE (TROUBLE ON THE CONTROLLER OR	ENGINE) OR ENGINE LOW FUEL			
		7	ACTUATE COMMON ALARM SIGNAL INDICATOR (RED LED)		•		•		1 1			•				•					•										۰										
		ciation	ACTUATE AUDIBLE ALARM SIGNAL (PIEZO BUZZER)		•	•	•	•	•	•	•	•	•			•					•										•						<u> </u>		<u> </u>		
		Annunci	ACTUATE COMMÓN SUPERVISORY SIGNAL INDICATOR (AMBER LED) ACTUATE AUDIBLE SUPERVISORY									-	+	•	_	•			• •			•	-	-		_		+	-			•		<u>   </u>	•	•	<u> </u>	_	+_!	$\vdash$	
		Unit A	ACTUATE AUDIBLE SUPERVISORY SIGNAL (PIEZO BUZZER) ACTUATE COMMON TROUBLE SIGNAL HOROTORY (AUDEL ED)															•		<u> </u>		-	,	-		• •			•				•	-		+	•	-	+!	$\vdash$	
		Itrol U	SIGNAL INDICATOR (AMBER LED) ACTUATE AUDIBLE COMMON TROUBLE SIGNAL (PIEZO BUZZER)									-			-					-		•	•			• •	•		•				•			+	•	+	+		
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			SYSTEM NORMAL																					•																	
			ACTUATE EVACUATION SIGNAL THROUGHOUT THE BUILDING		•	•	•	•	•	•	•	•	•			•					•																<u> </u>	_	<u> </u>		
			ACTUATE WATERFLOW BELL												-	•				_	_			_				_	_								<u> </u>		<u> </u>	$\square$	
			TRANSMIT FIRE ALARM SIGNAL			•										•					•			-				-			•			<u> </u>		+	<u> </u>	_	+-'	$\vdash$	
			TO SUPERVISING STATION TRANSMIT SUPERVISORY SIGNAL		•	•		-			-		+	•	+		•	•	• •			•		-		_	_	+	-		-	•		<u> </u>	•	•	<u> </u>	+	+-'	$\vdash$	
			TO SUPERVISING STATION TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION																			•	,	-		• •			•				•	-		+	•	+	+		
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		ation	TRANSMIT MANUAL PULL STATION ALARM SIGNAL TO SCADA		•																																				
		otifice	TRANSMIT SMOKE DETECTOR ALARM SIGNAL TO SCADA TRANSMIT HEAT DETECTOR ALARM			•				•	•	•	_		_	_												_	_					<u> </u>			<u> </u>		<u> </u>	$\square$	
		z	SIGNAL TO SCADA TRANSMIT DUCT SMOKE DETECTOR				•	•	•				•			_								-		4		-						<u>                                     </u>		+	<u> </u>	+	+_'	$\vdash$	
			ALARM SIGNAL TO SCADA TRANSMIT WATERFLOW ALARM									_			_	•				-			-			+		+						<u> </u>			<u> </u>	+	+'	$\vdash$	
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			TRANSMIT PARKING STRUCTURE FACE ALARM SIGNAL TO SCADA	C																1											•					1		-	+-+		
			DEACTIVE EVACUATION SIGNAL THROUGHOUT THE BUILDING RESET ALARM SIGNAL FROM OTHER													_				_					•												<u> </u>		<u> </u>	$\square$	
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-S-00		ontro	ALTERNATE RECALL FLOOR & STOP ELEVATOR SHUNT TRIP										•							1																		-			
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station		e Safety	CLOSE SMOKE/FIRE DAMPERS IN RATED WALLS			•	•																															1			
lipitas S		ired Fire	HVAC SHUTDOWN				•								_	_				_								_						<u> </u>			<u> </u>	_			4
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Project			20 SECONDS DELAY																	-								+						$\square$		+		+	+		
lifornia			RECORD ALL SYSTEM ACTIVITY WITH DATE & TIME @ PRINTER		•	•	•	•	•	•		•	•			• •	•	•	• •	,	•	• •	•	•	•	•	•	•	•		•	•	•					-	+-+		
ing\Cal		tary	ACTUATE FIRE ALARM SYSTEM ANNUNCIATOR PANEL		•	•	•	•	•	•		•	•			• •	•	•	• •	,																					
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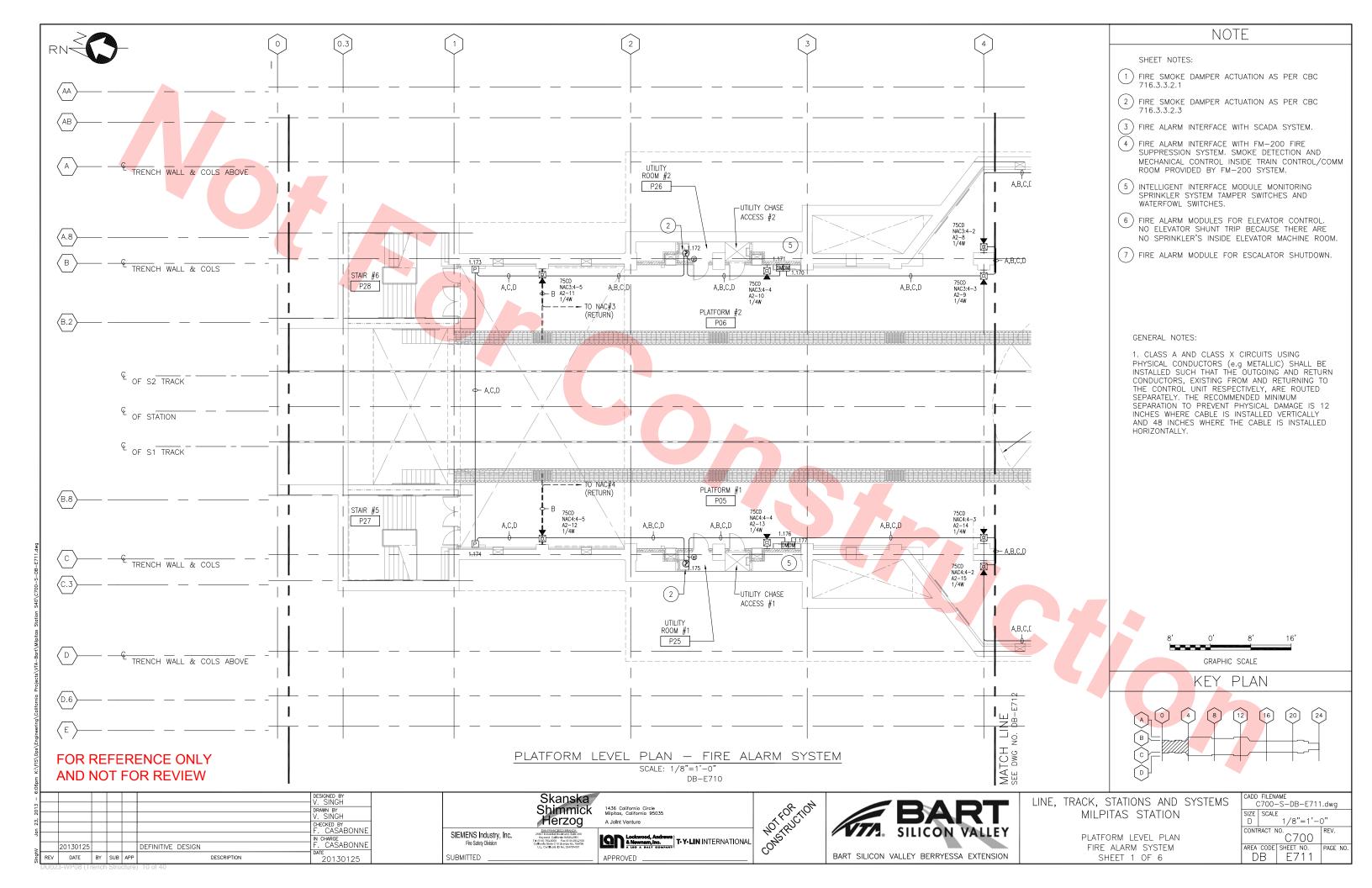
U023-WP08 (	Trench	Structure)	8 of 40

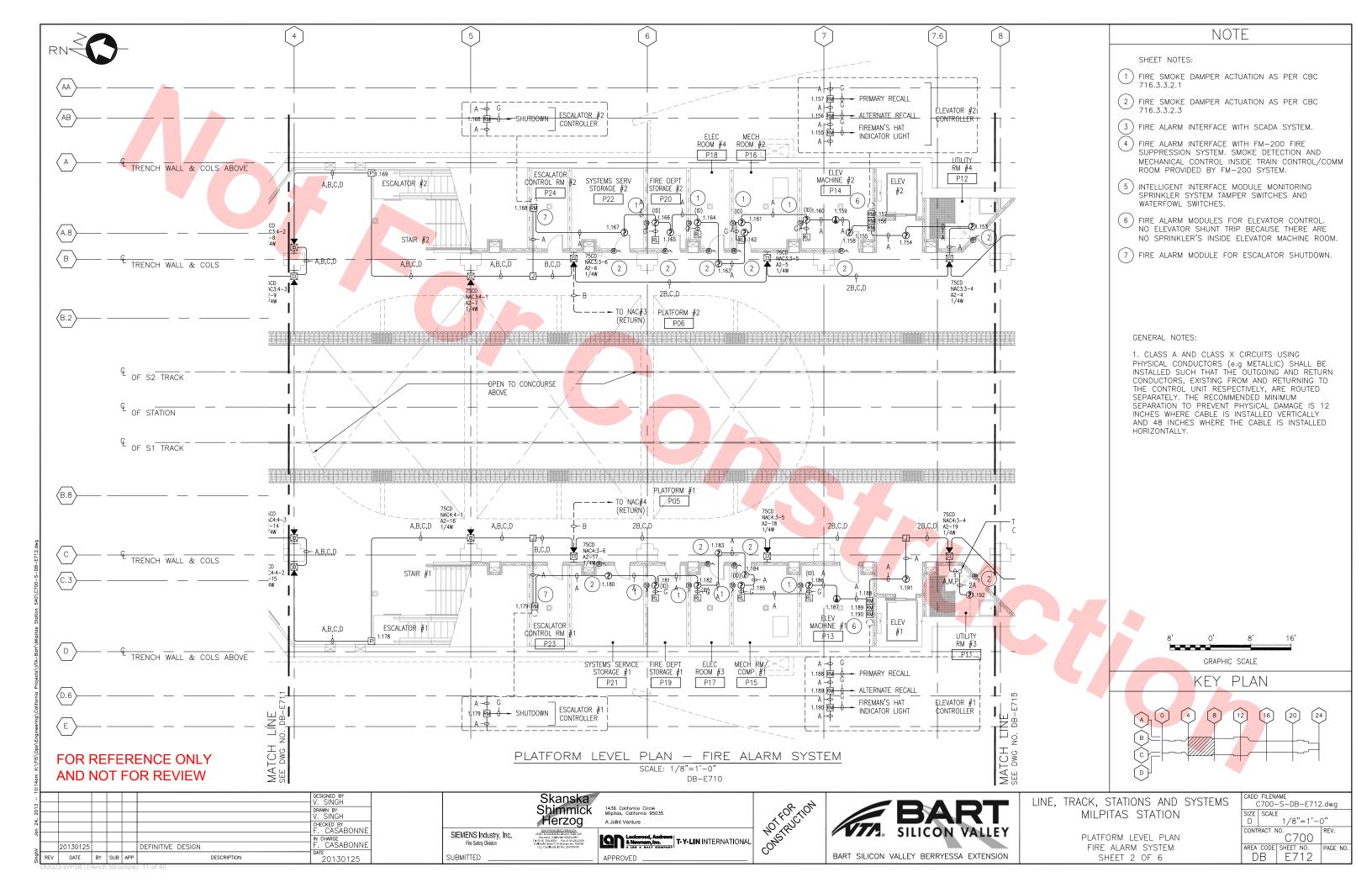
SUPERVISORY SIGNAL FROM PARKING STRUCTURE FACP	TROUBLE SIGNAL FROM PARKING STRUCTURE FACP			AUTOMATIC TRANSFER SWITCH (THE CONTROLLER MAIN SWITCH HAS BEEN TURNED TO "DFF" OR "MANUAL" POSITION	DIESEL GENERATOR ENGINE RUNNING	GENERATOR TROUBLE (TROUBLE ON THE CONTROLLER OR ENGINE) OR ENGINE LOW FUEL					REMARKS
• •				• •	•		-	-			A = THE ACTIVATION OF ANY SYSTEM SMOKE DETECTOR SHALL INITATE AN ALARM
	•					•					VERIFICATION OPERATION WHEREBY THE CONTROL PANEL SHALL RESET THE ACTIVATED DETECTOR AND WAIT FOR A SECOND ACTIVATION. IF AFTER RESET, A SECOND ALARM IS DEPORTE FOR THE SAME OF ANY OTHER SHORE STORE STORE SHORE OF A
	•					•					REPORTED FROM THE SAME OR ANY OTHER SMOKE DETECTOR WITHIN ONE MINUTE, THE SYSTEM SHALL PROCESS THE ALARM IN ACCORDANCE WITH THE FIRE ALARM SEQUENCE OF OPERATION IF NO SECOND ALARM OCCURS WITHIN ONE MINUTE THE SYSTEM SHALL
											OF OPERATION. IF NO SECOND ALARM OCCURS WITHIN ONE MINUTE, THE SYSTEM SHALL RESUME NORMAL OPERATIONS.
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		E.		SIL	2		5	K		v	MILPITAS STATION
/			2.	SIL	.10	NO.	V	AL	LE	Y	FIRE ALARM CONTRACT NO. SEQUENCE OF OPERATION AREA CODE SHEET NO.
BA	ART	SILI	CON	VALLEY	′ BE	RRYESS	SA E	XTE	NSIC	N	DB   E703

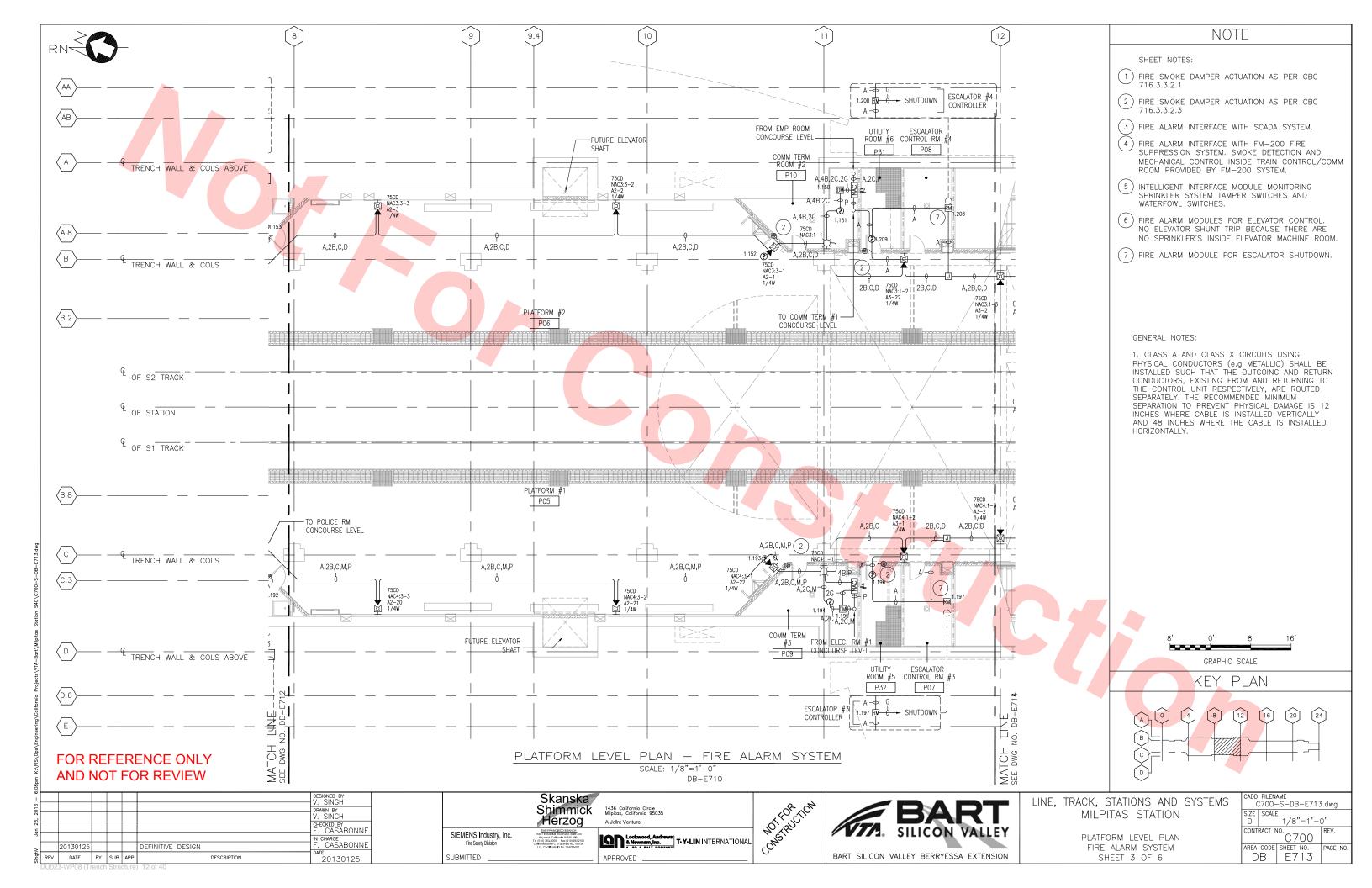


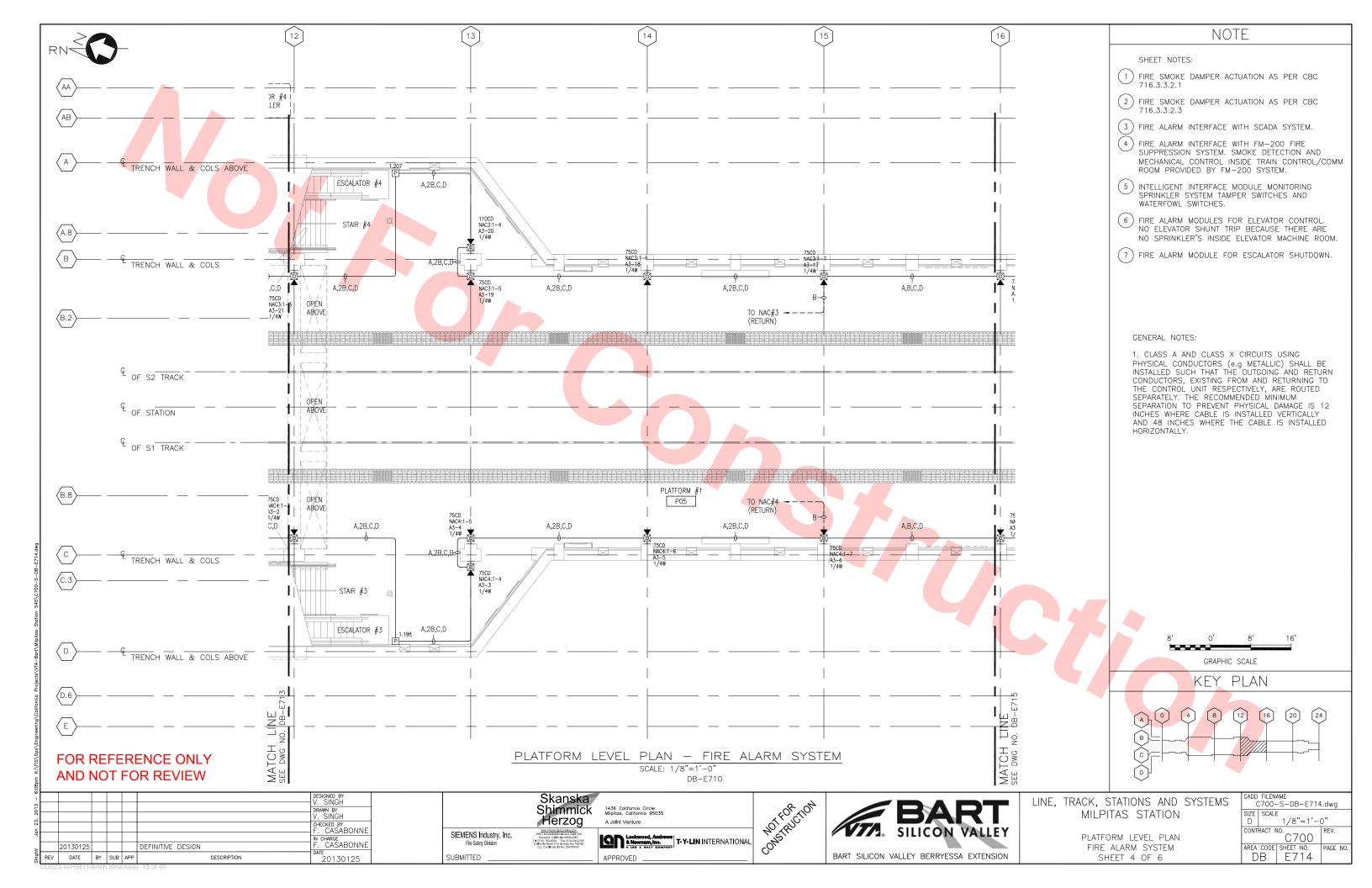
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Singh	REV	DATE	BY	SUB	APP	DESCRIPTION	DATE 20130125	SUBMITTED

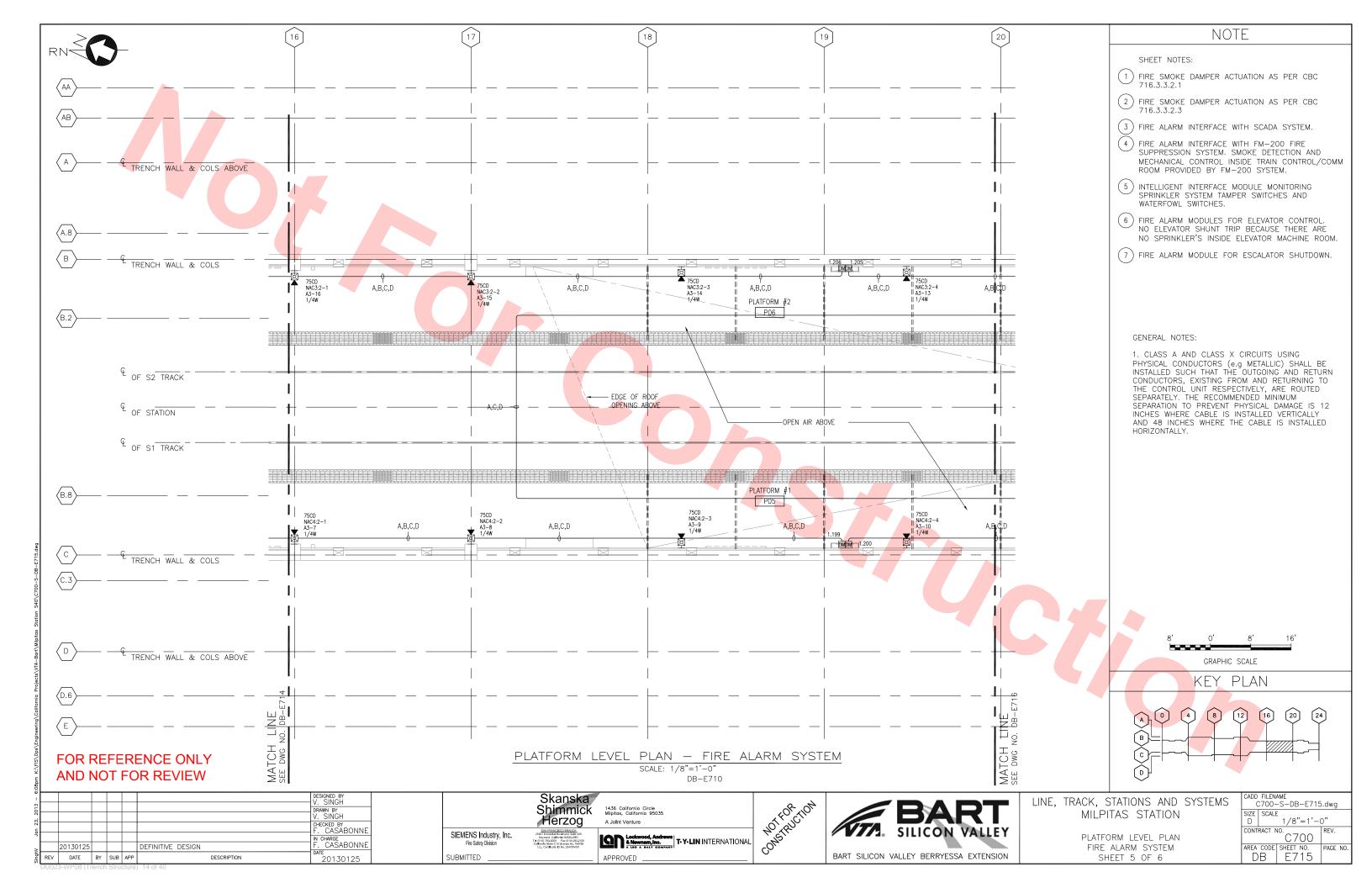


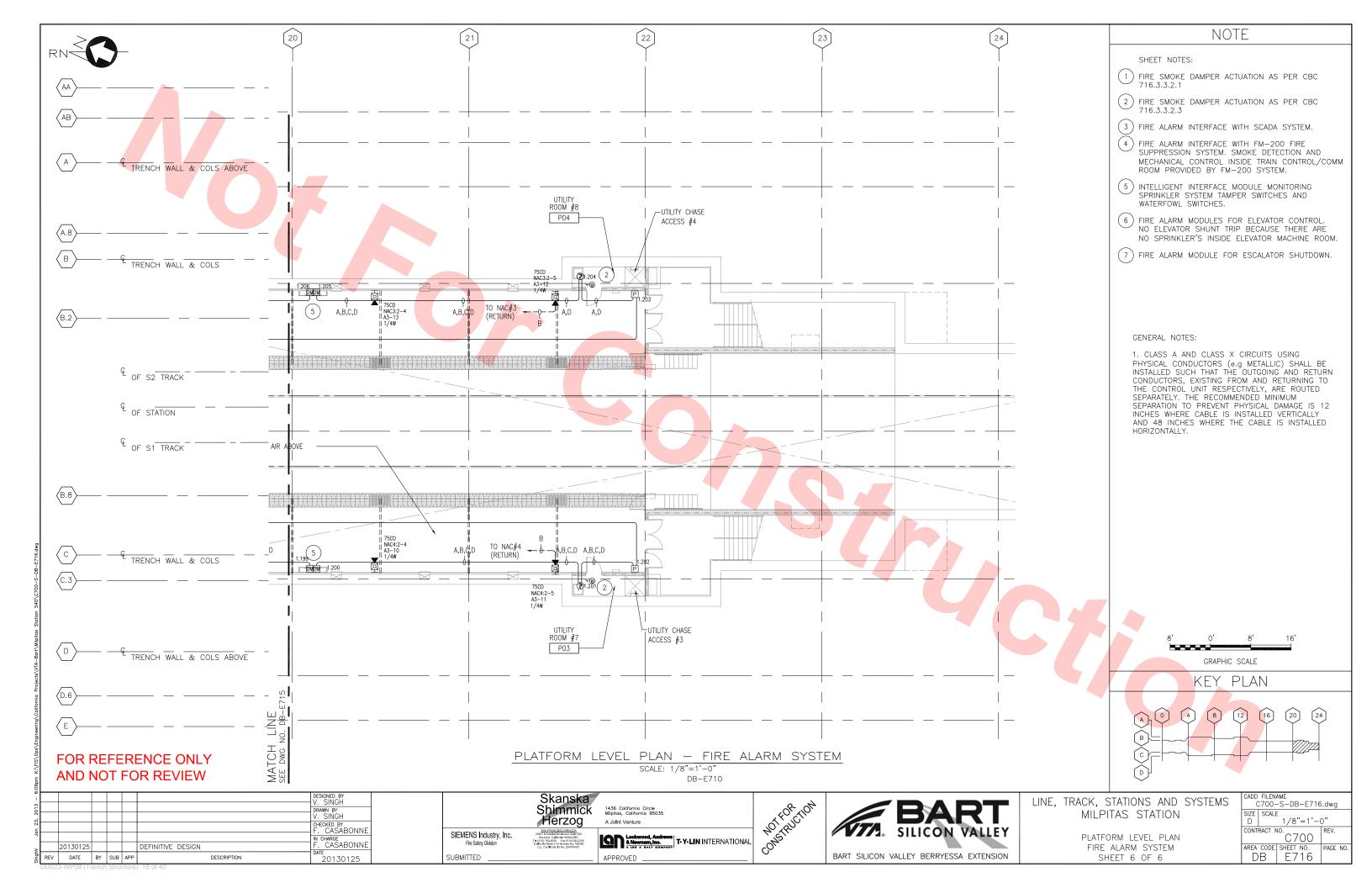


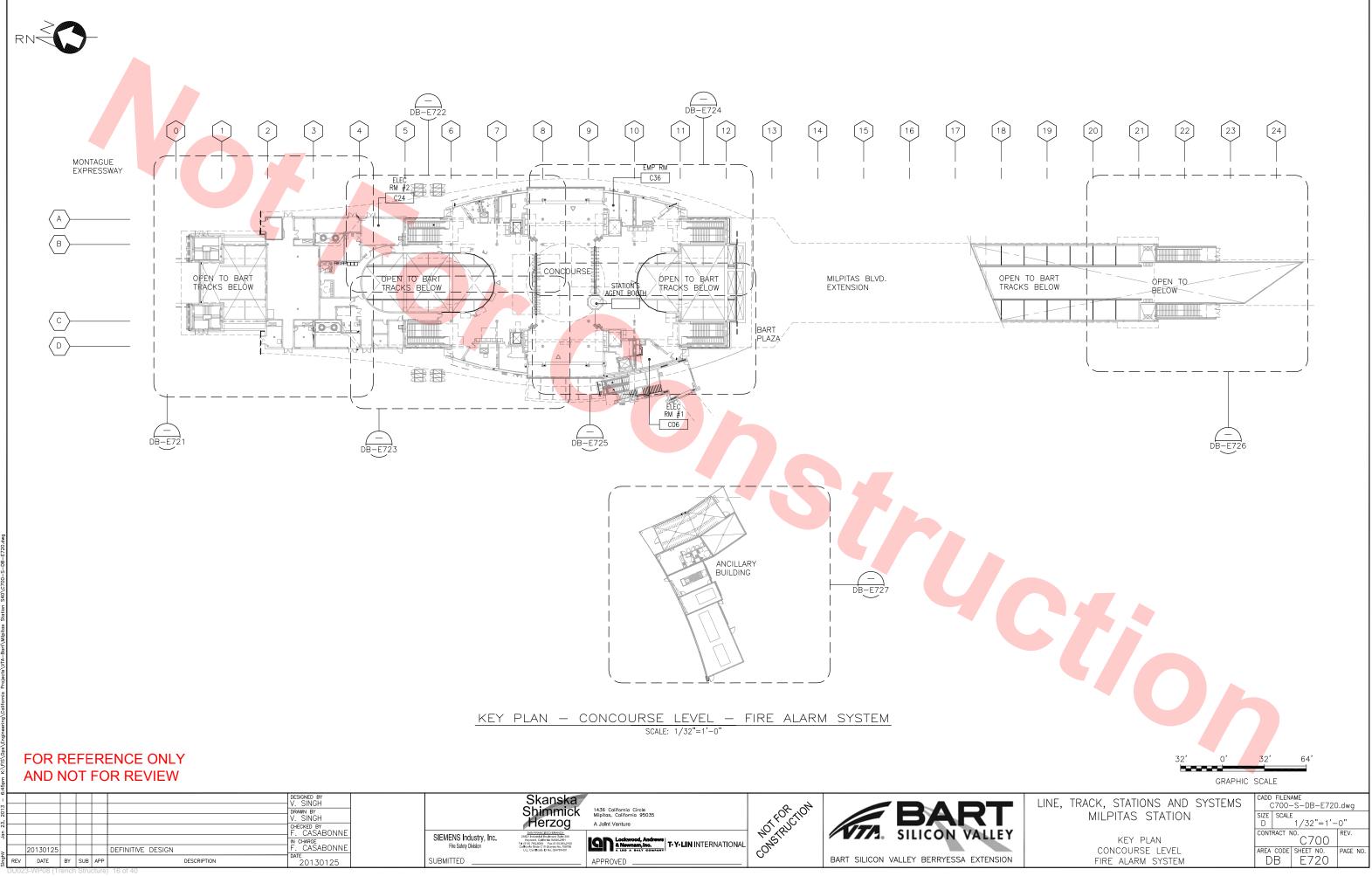


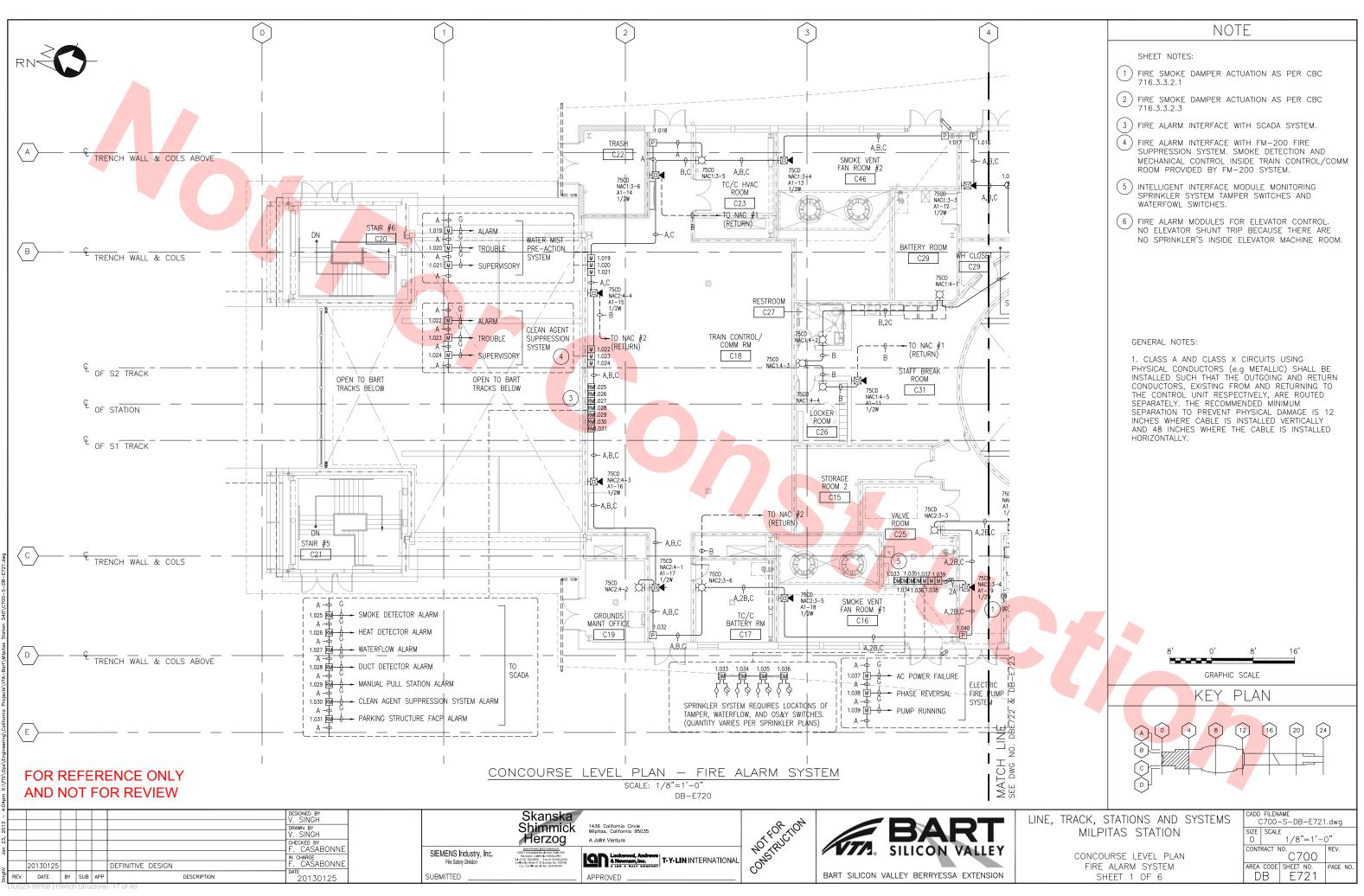


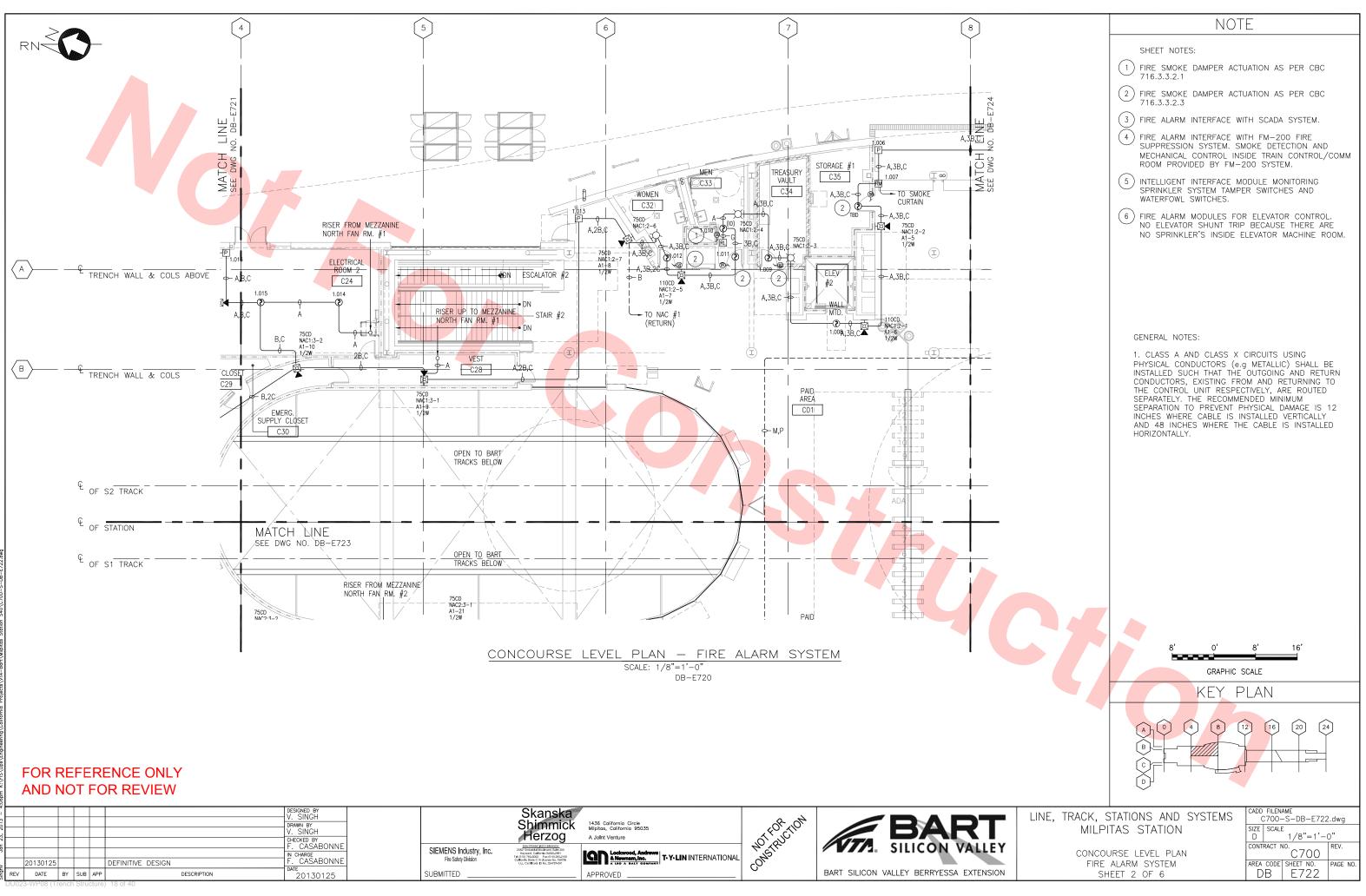


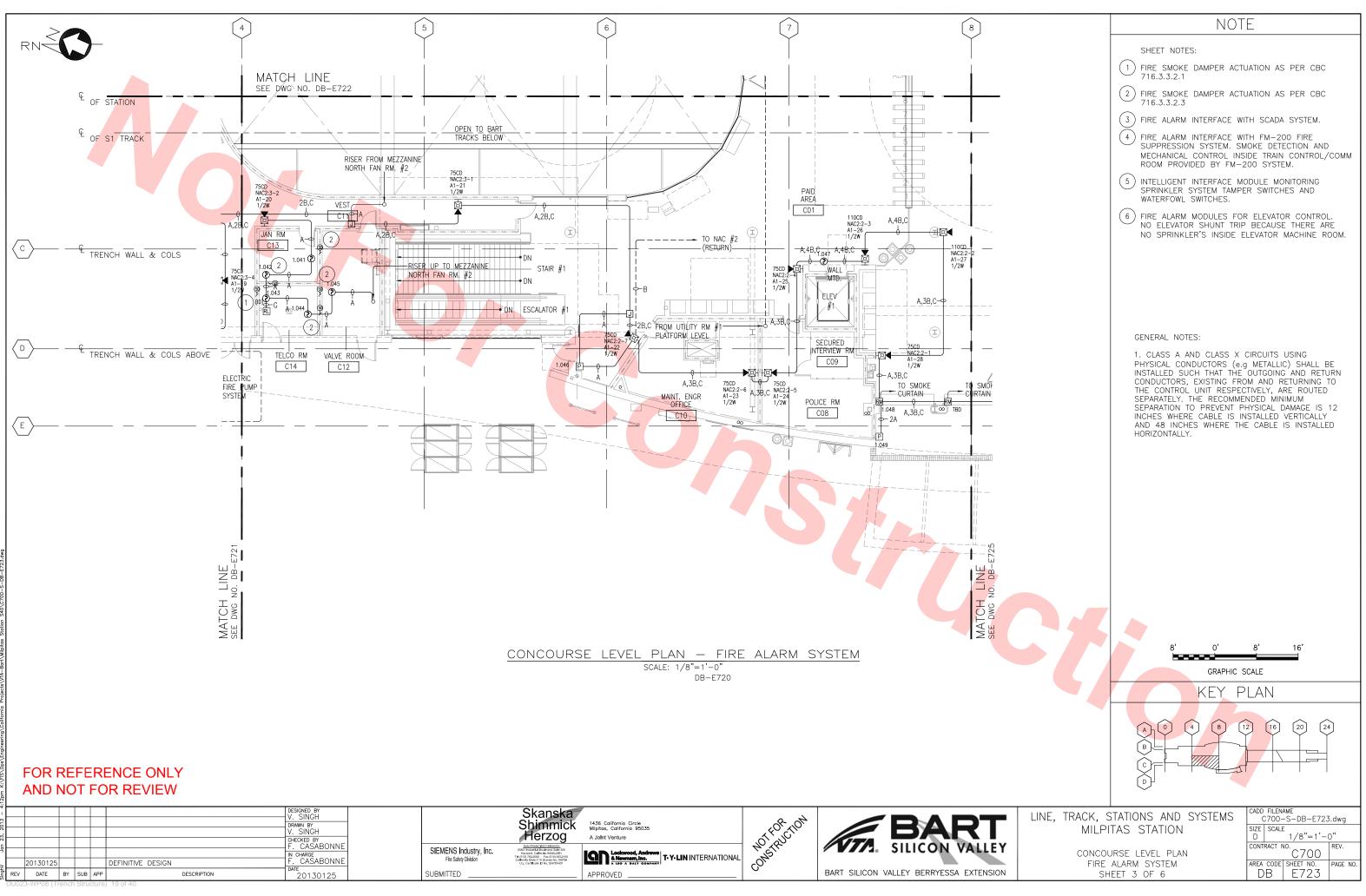




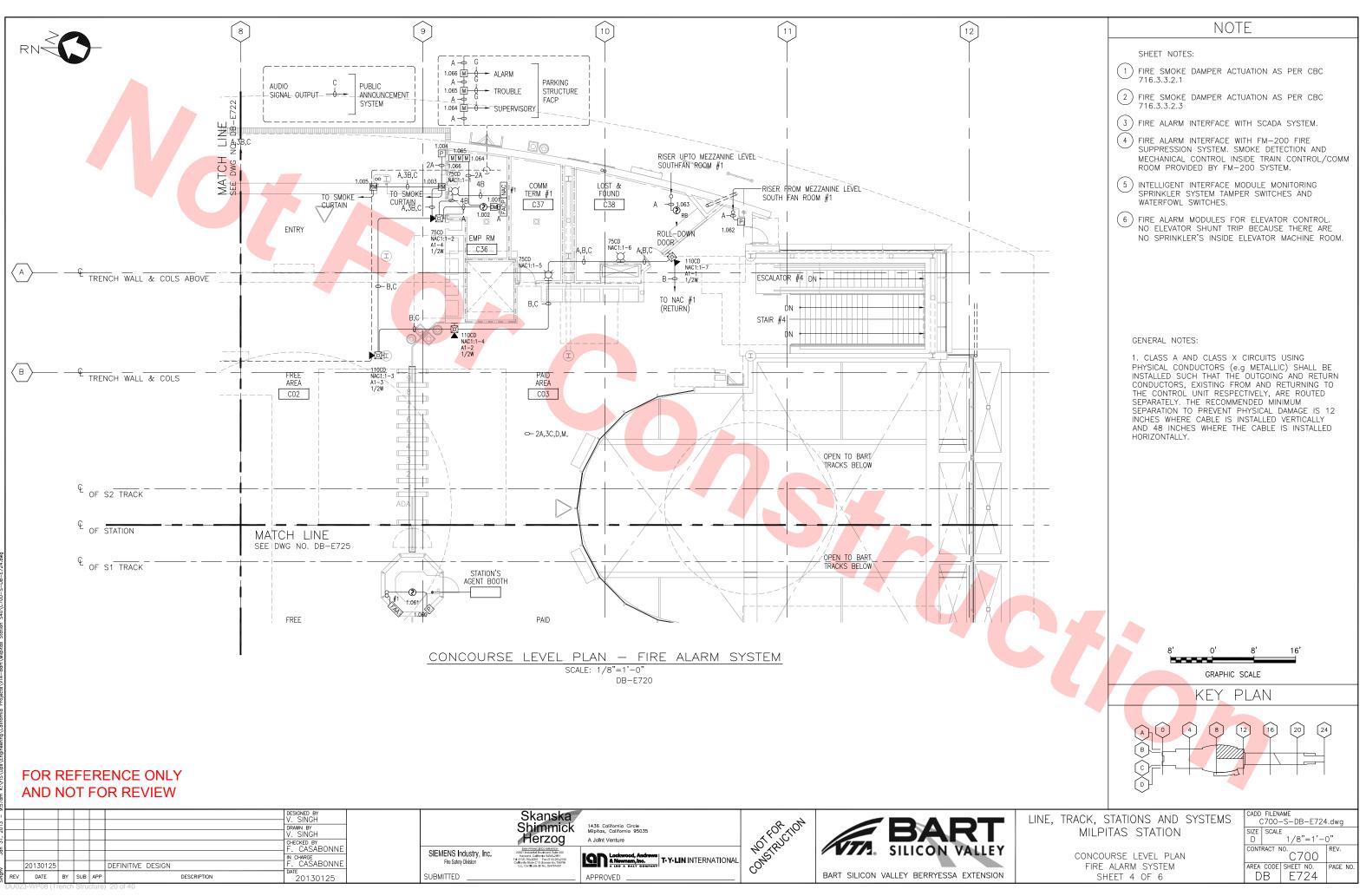


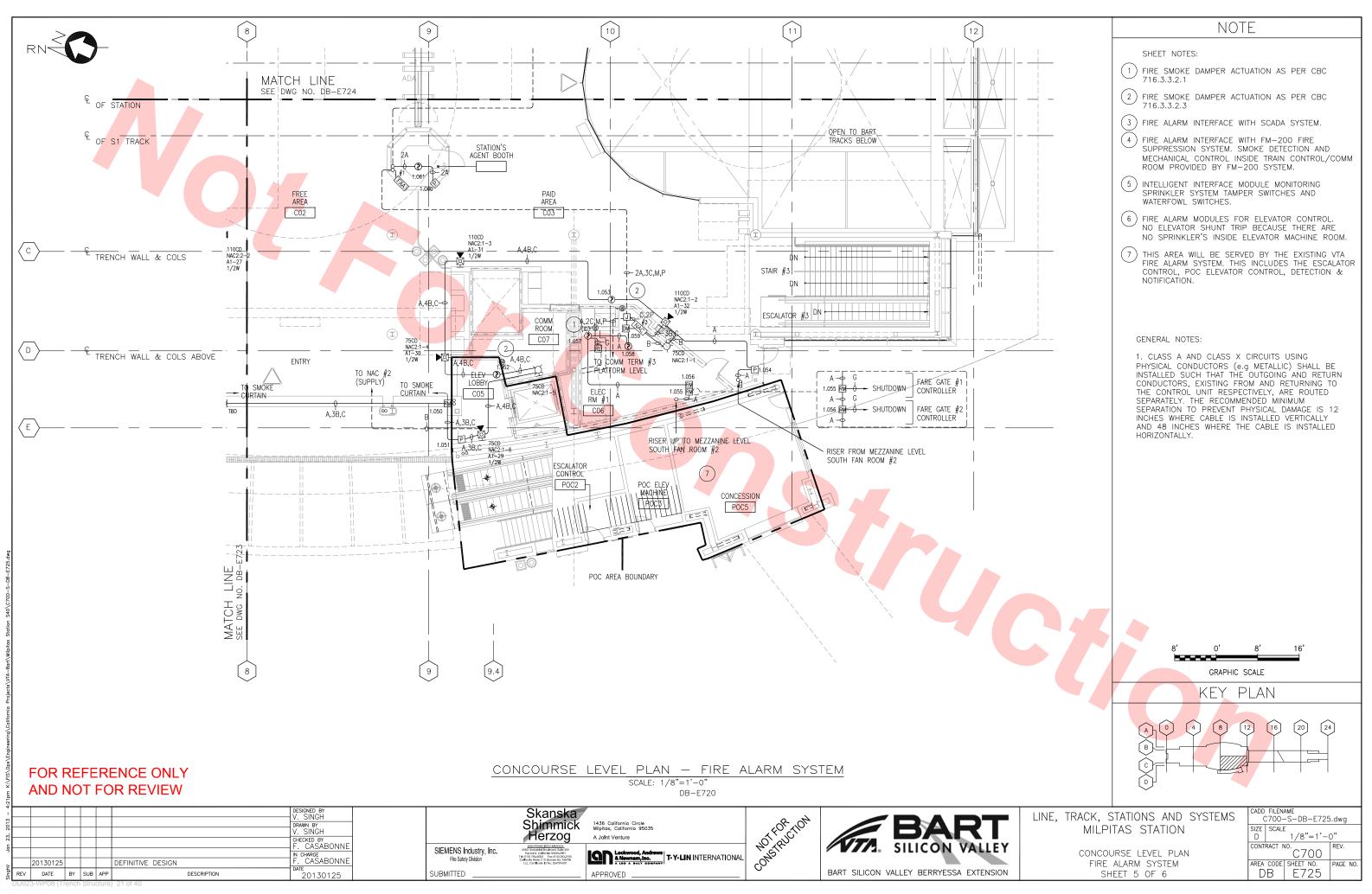


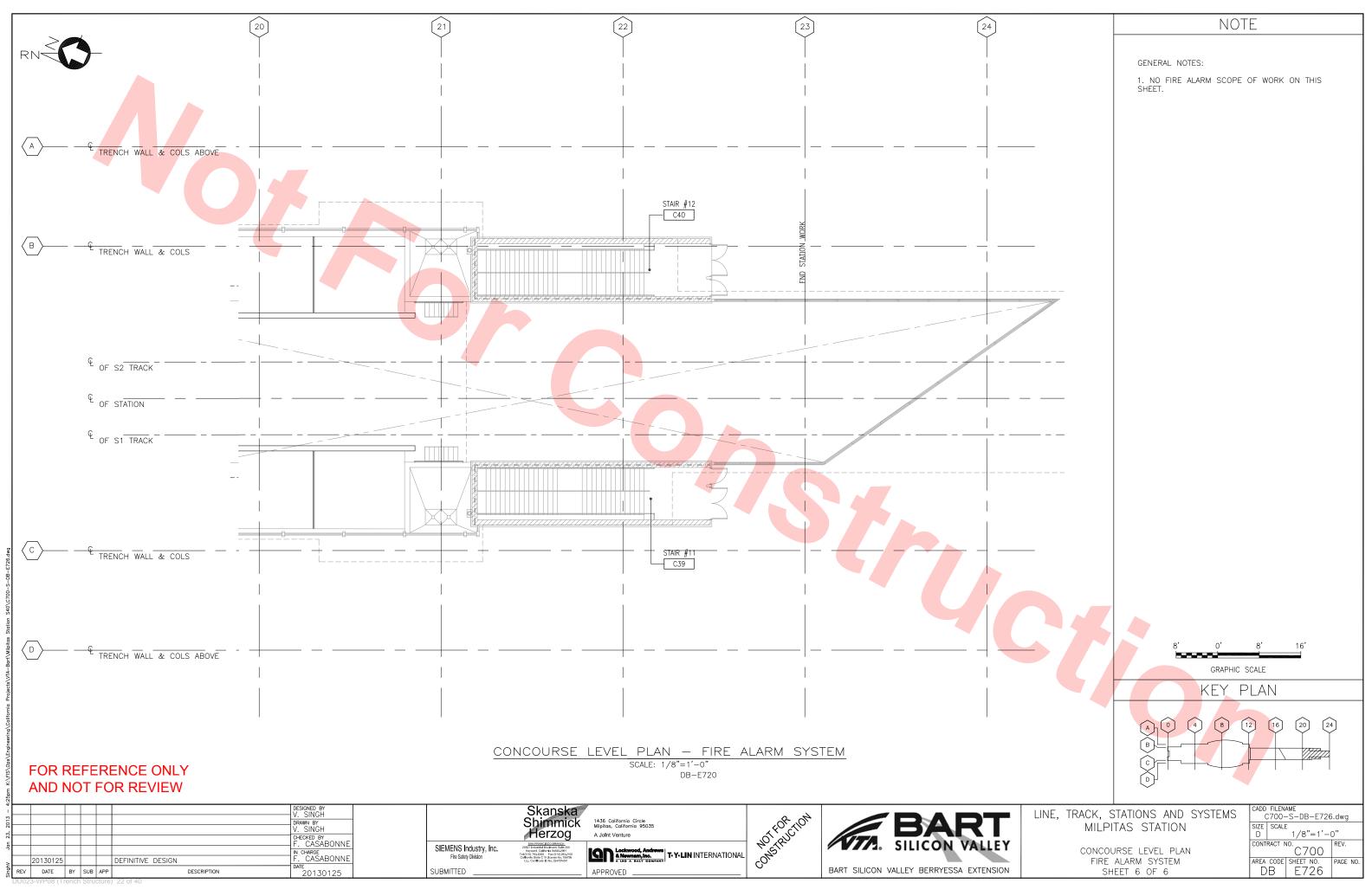


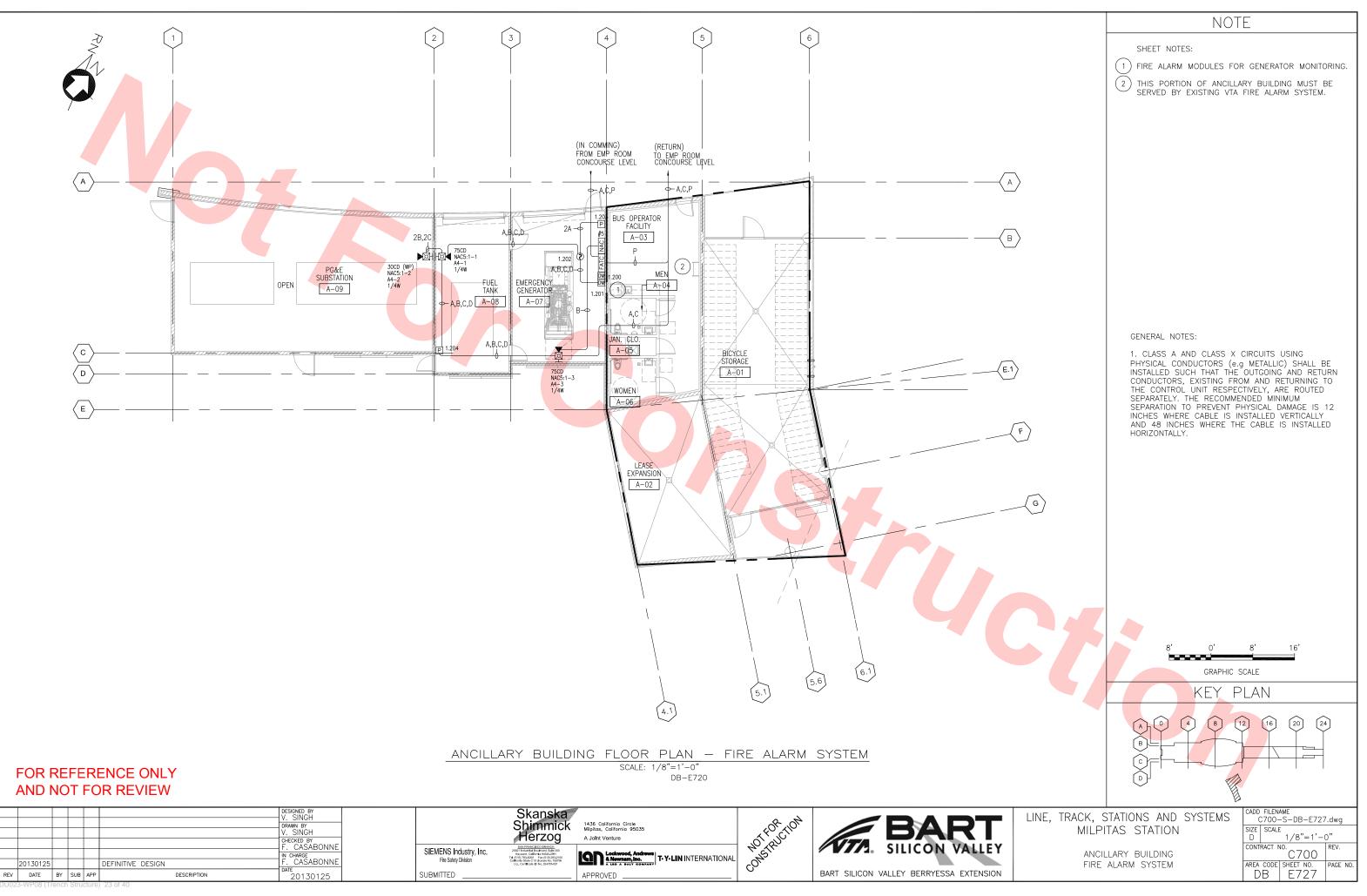


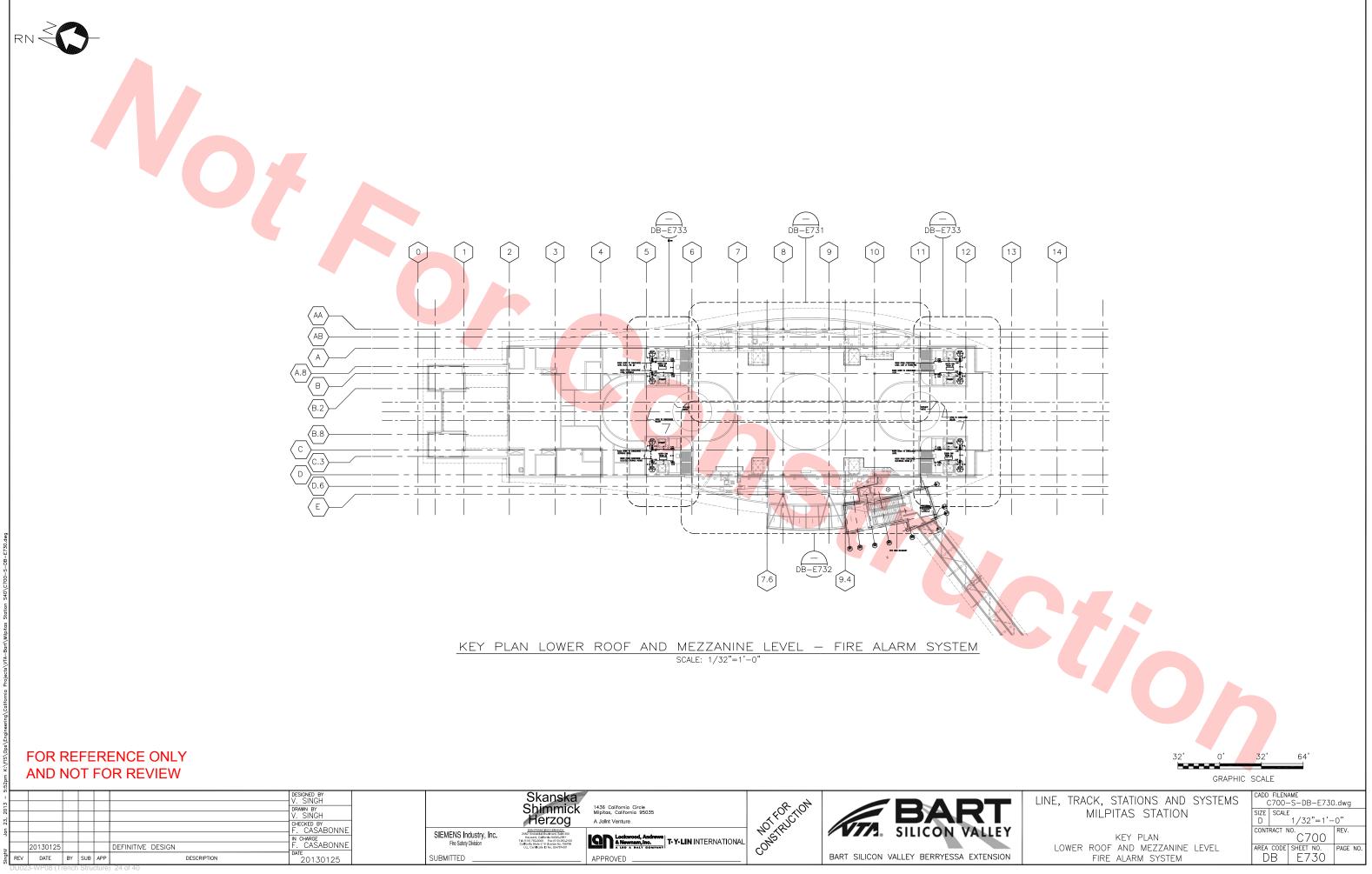
- 2					DESIGNED BY V. SINGH			Skanska	7	~ ~	
501					drawn by V. SINGH			Shimmick Herzog	1436 California Circle Milpitas, California 95035	FOR THOM	
an 23					CHECKED BY F. CASABONNE	-			A JoInt Venture	NO FUN	SILICON VALLEY
	2	0130125		DEFINITIVE DESIGN	IN CHARGE F. CASABONNE		SIEMENS Industry, Inc. Fire Safety Division	SAN FRANCISCO BRANCH 25821 Industrial Boulevard, Sula 300 Hayward, California 945452891 Tel (510) 783-8000 Fax (510) 283-2100 California Sata C10 Llorare No. 758706 U.J. certificate D No. 324787-001	Lockwood, Andrews & Novnam, Inc. A Liss Andrews A Liss A Liss Andrews A Liss A	, M	, DITE STERCON VALLET
VhgniS R			BY SUB	 DESCRIPTION	DATE 20130125		SUBMITTED		APPROVED	6	BART SILICON VALLEY BERRYESSA EXTENSION

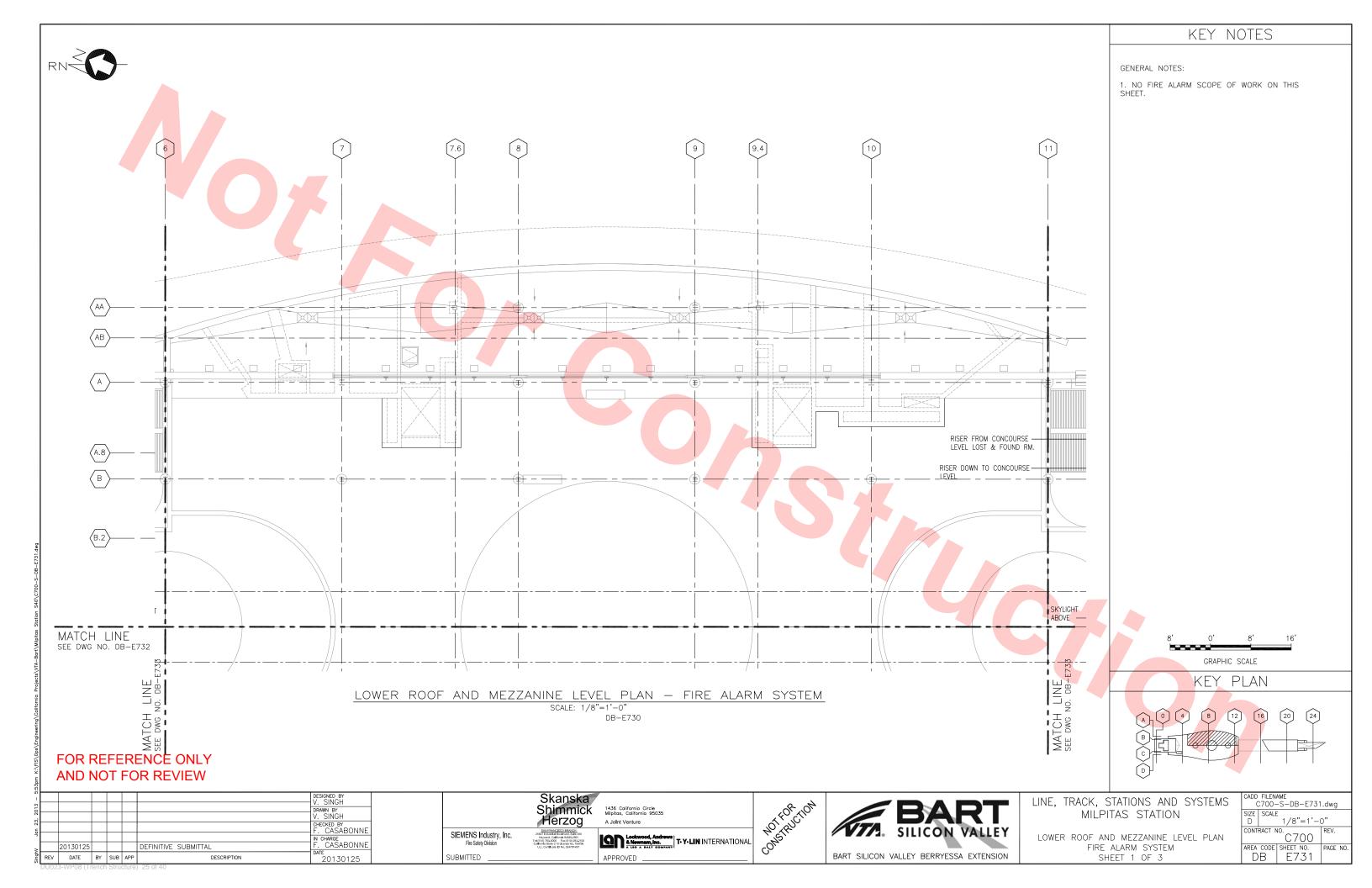


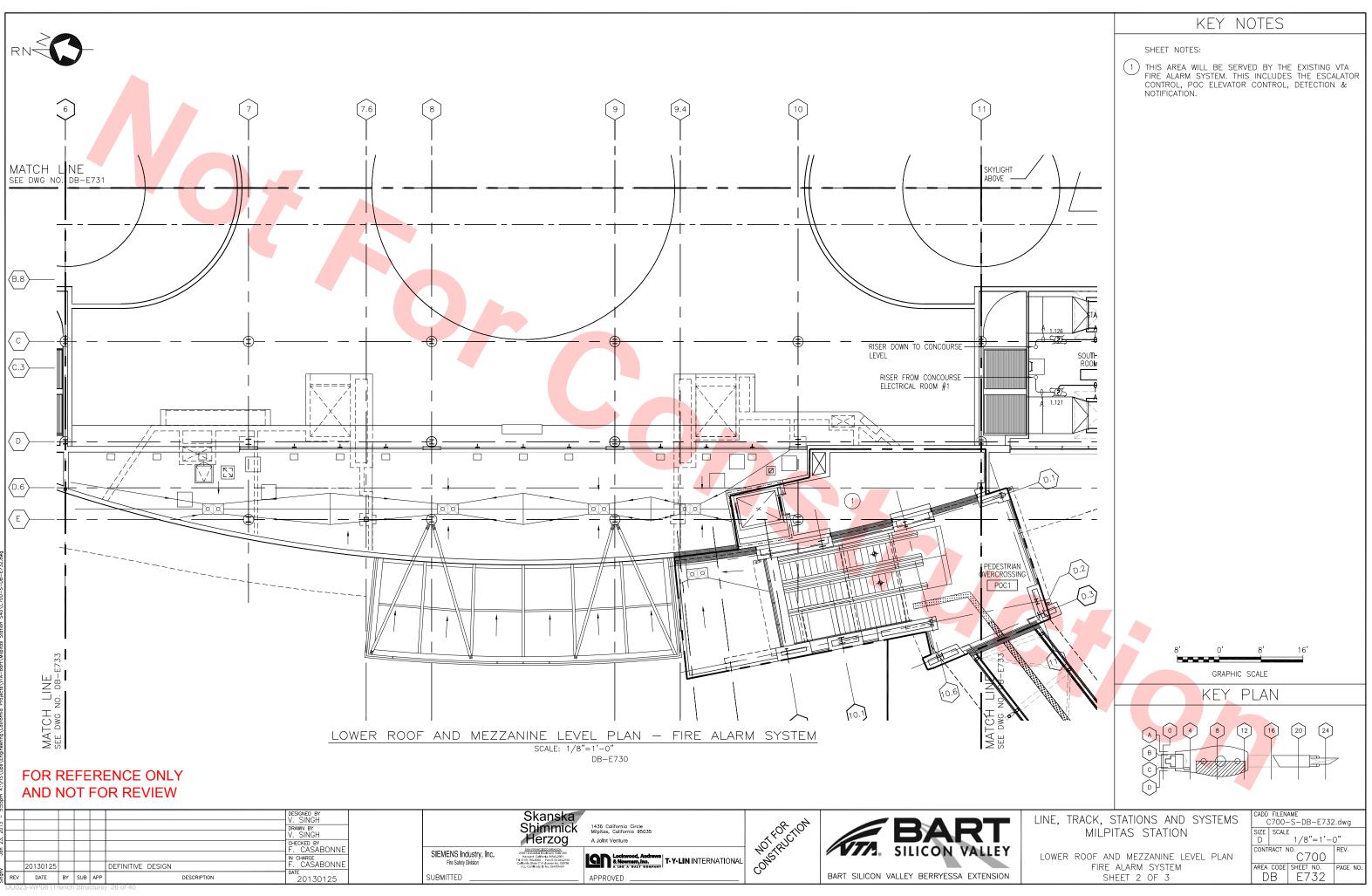


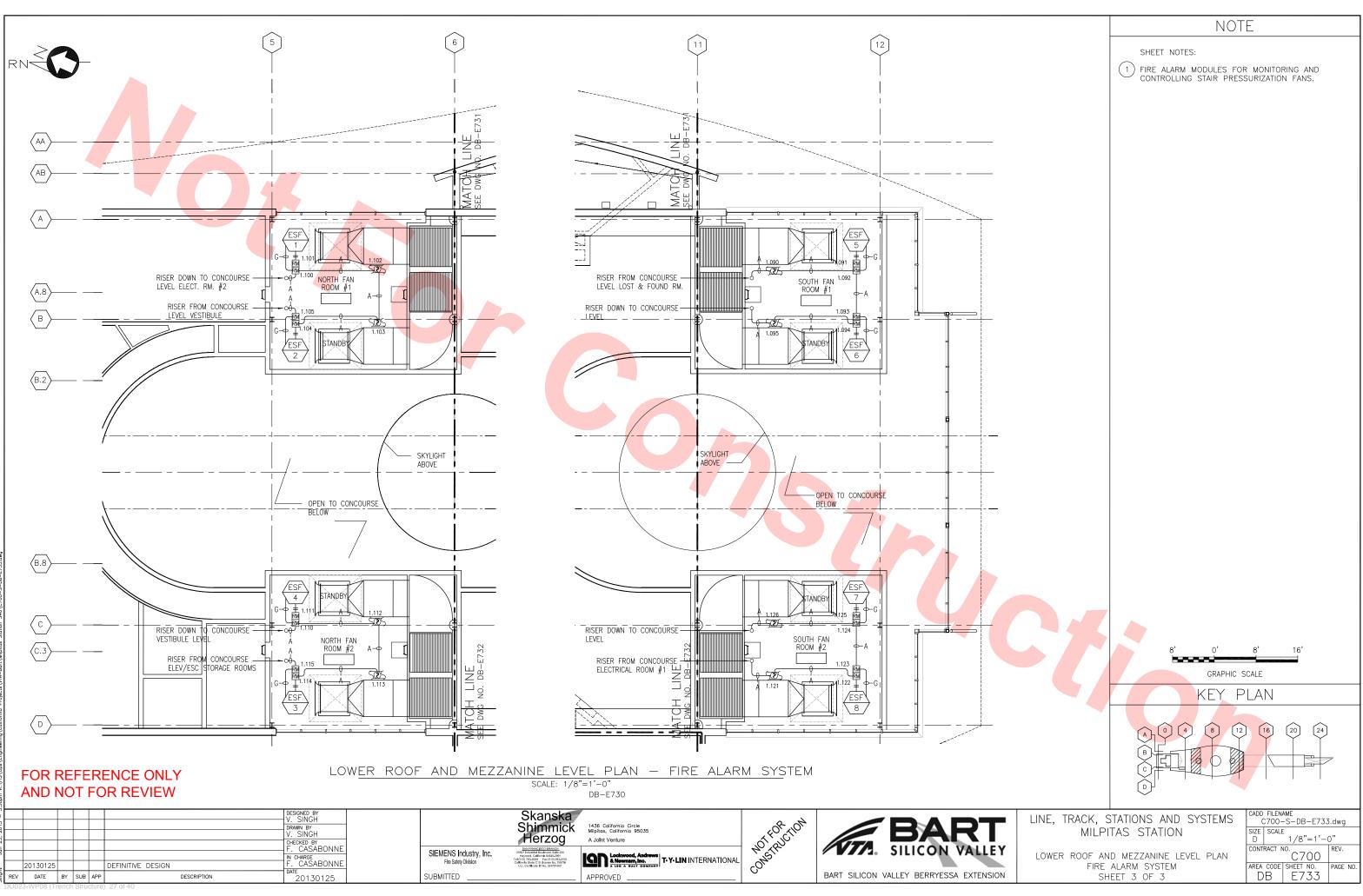


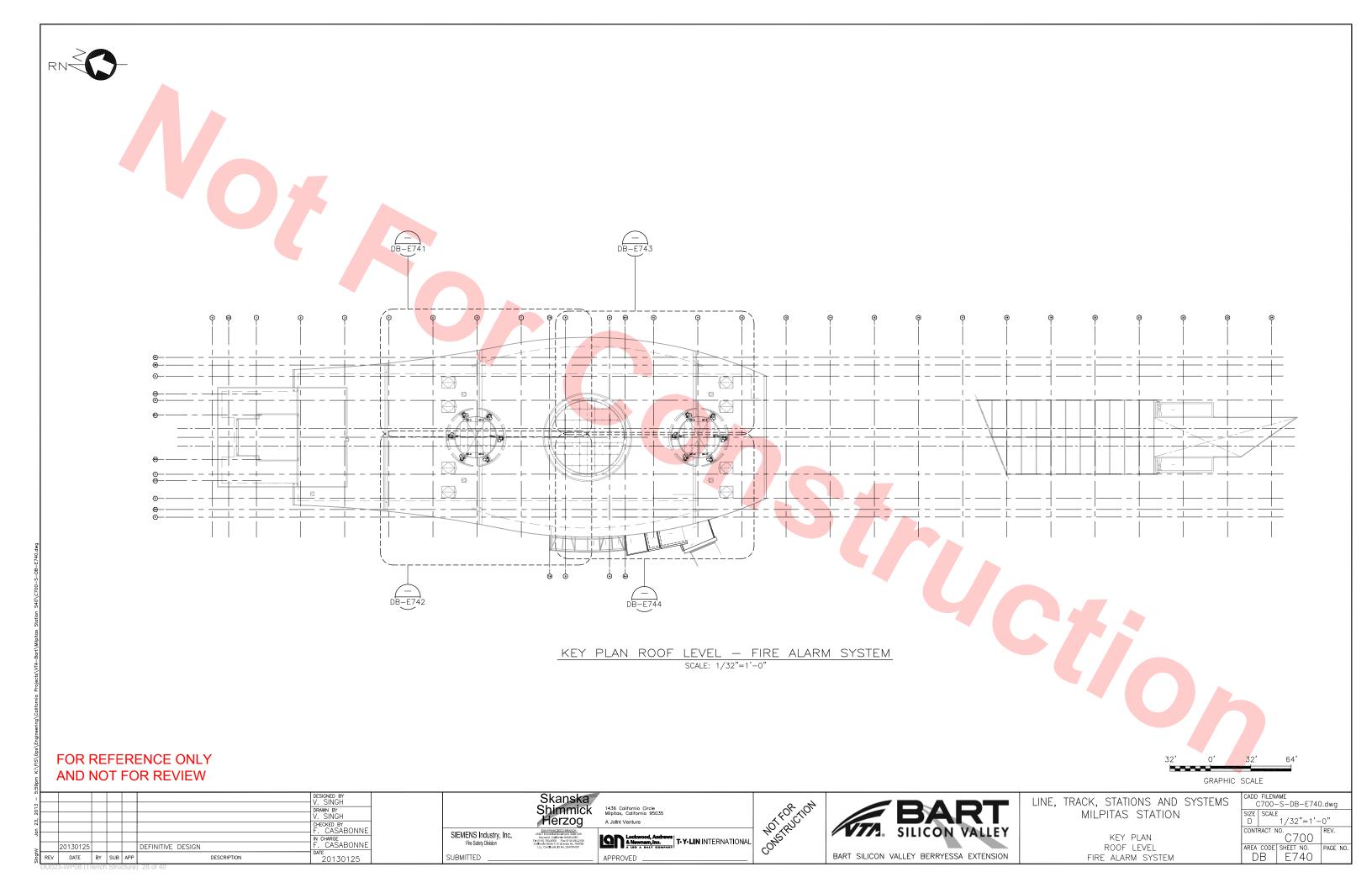


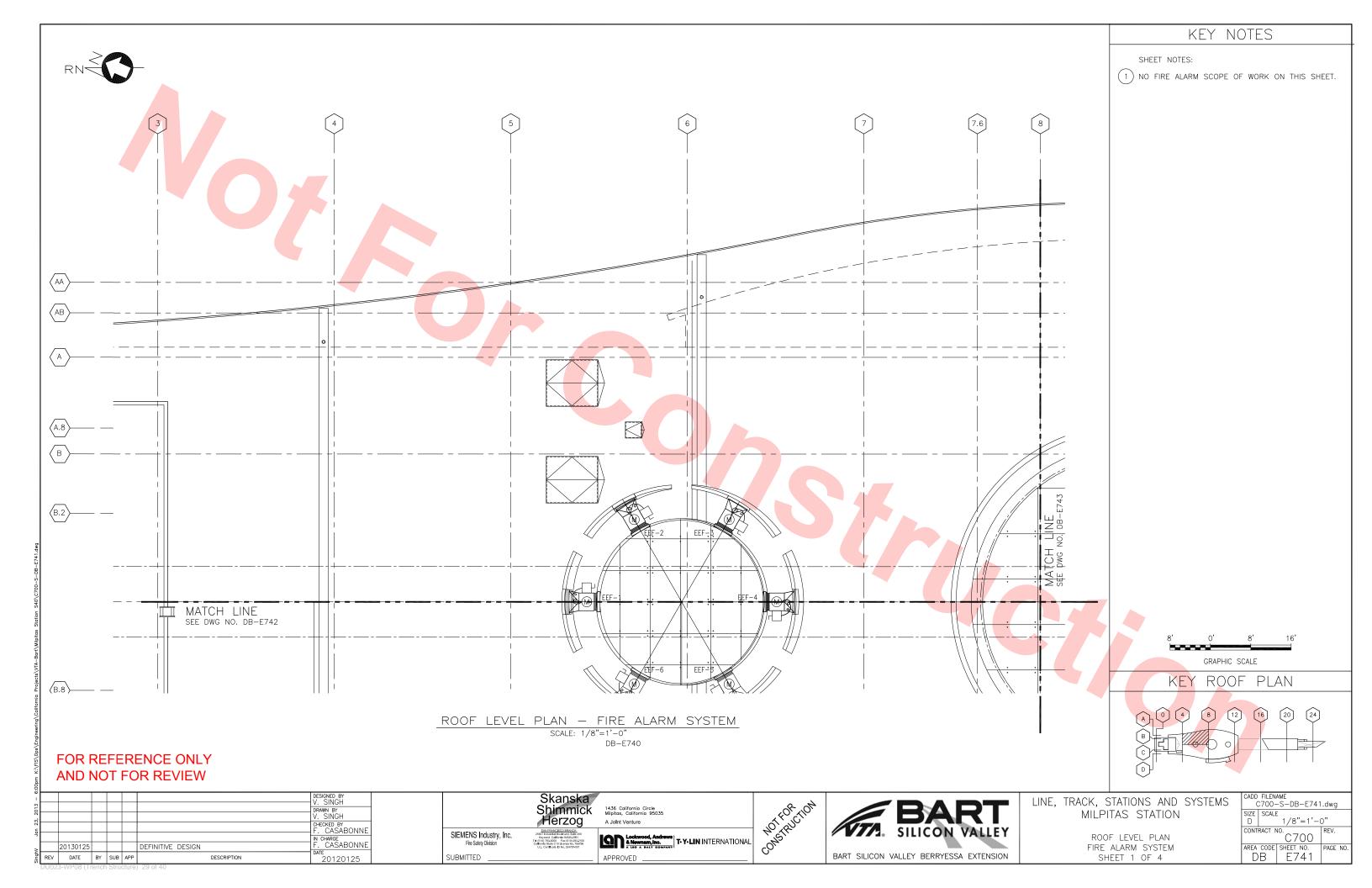


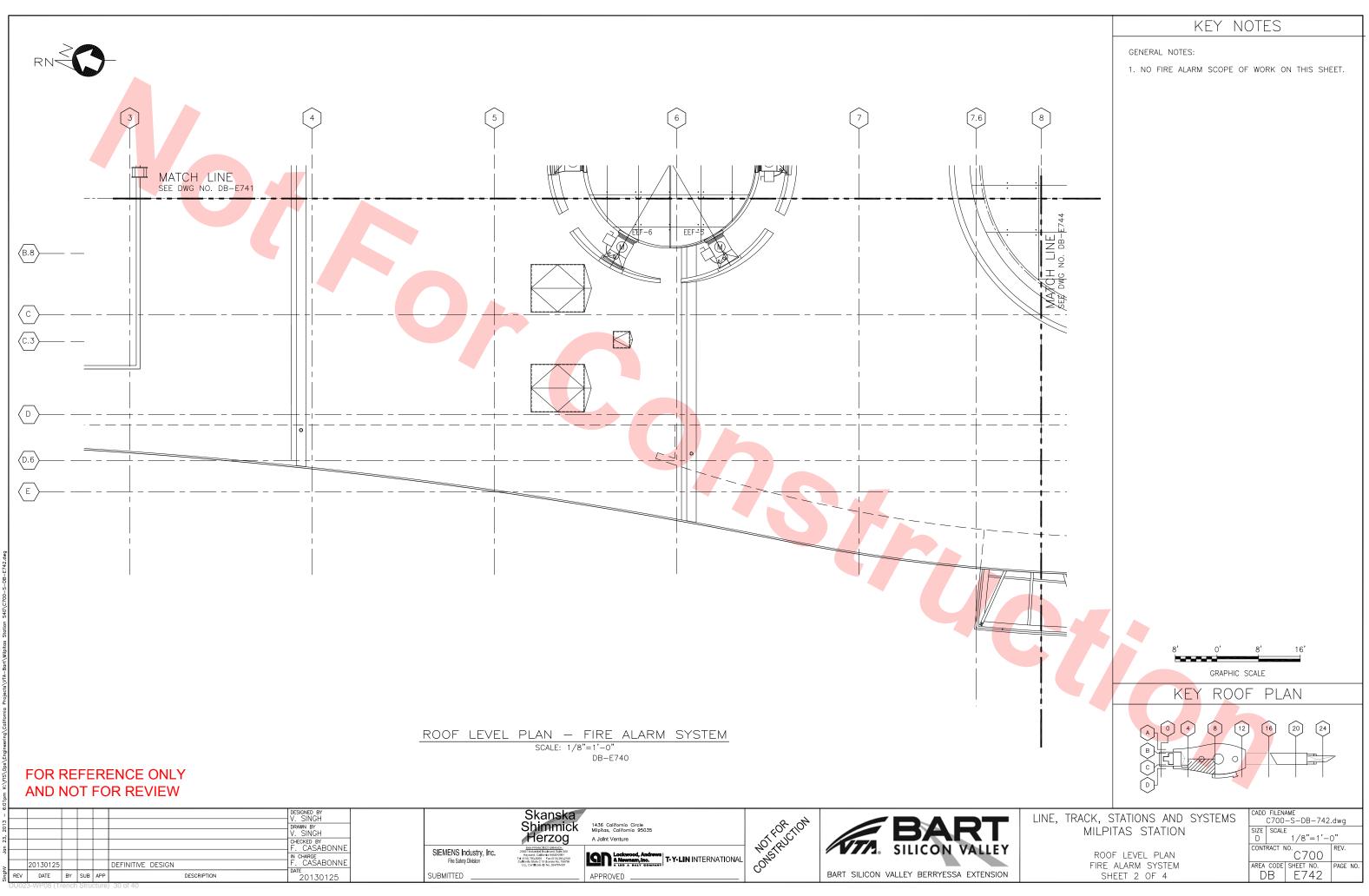


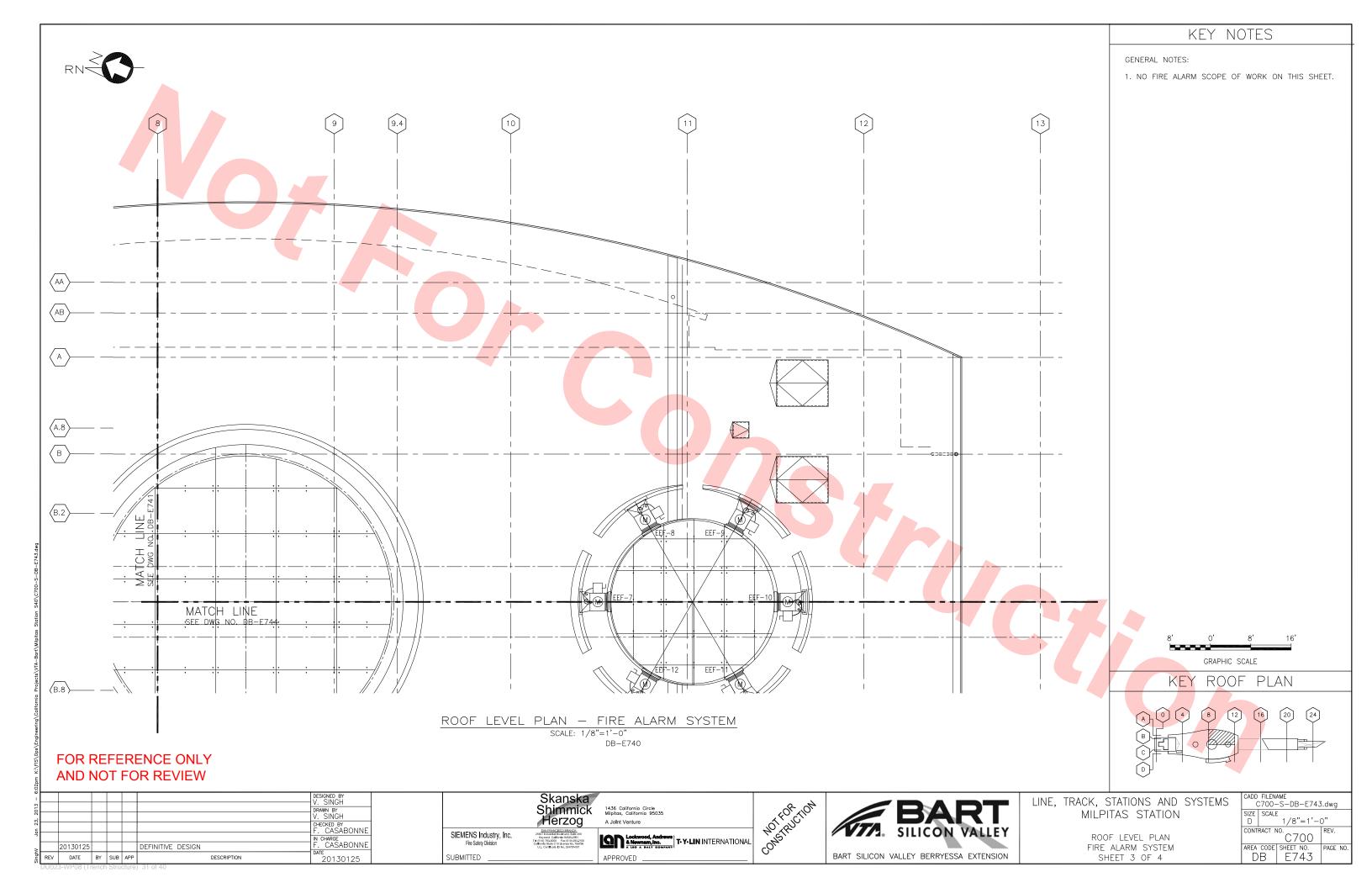


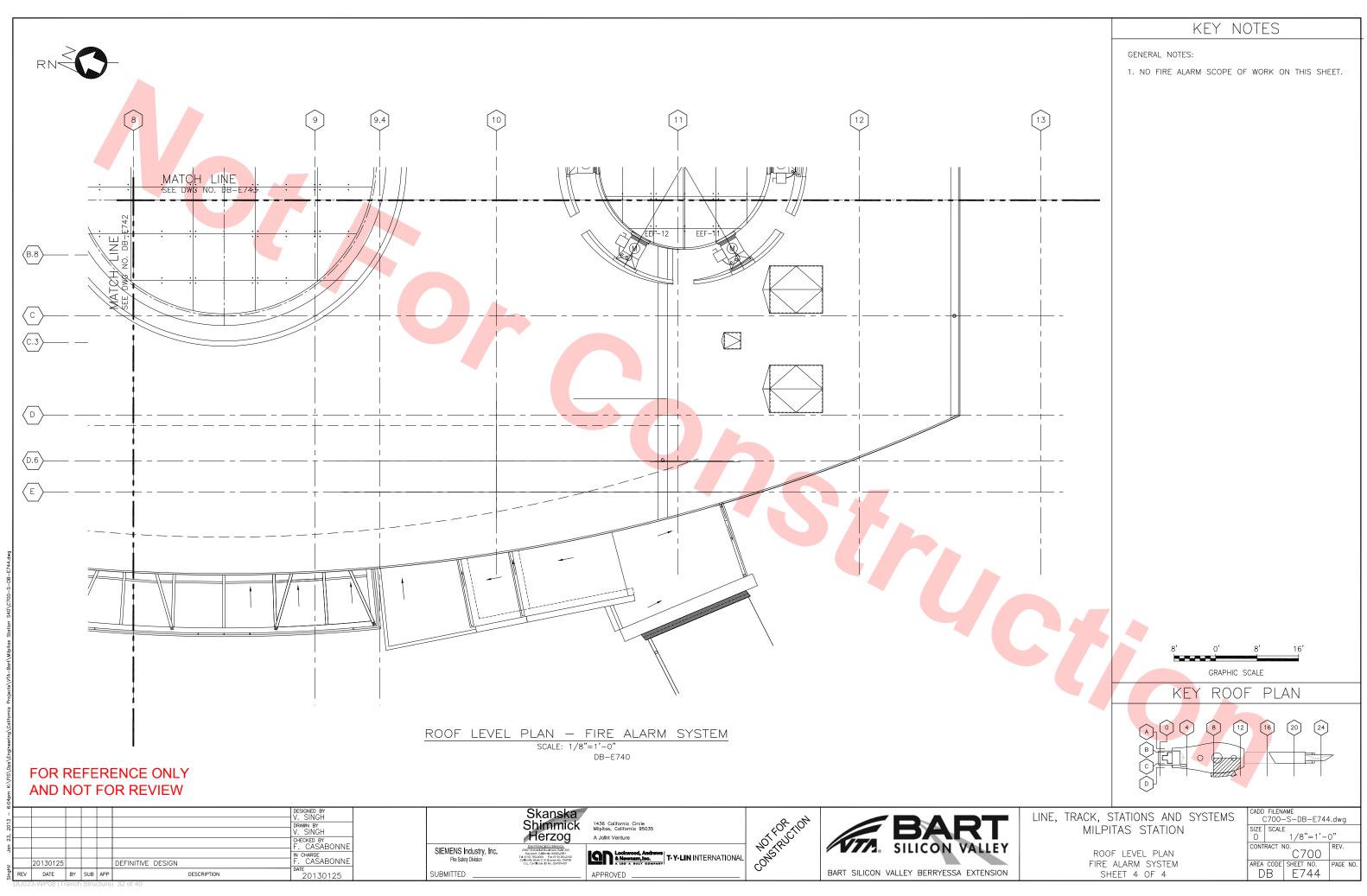


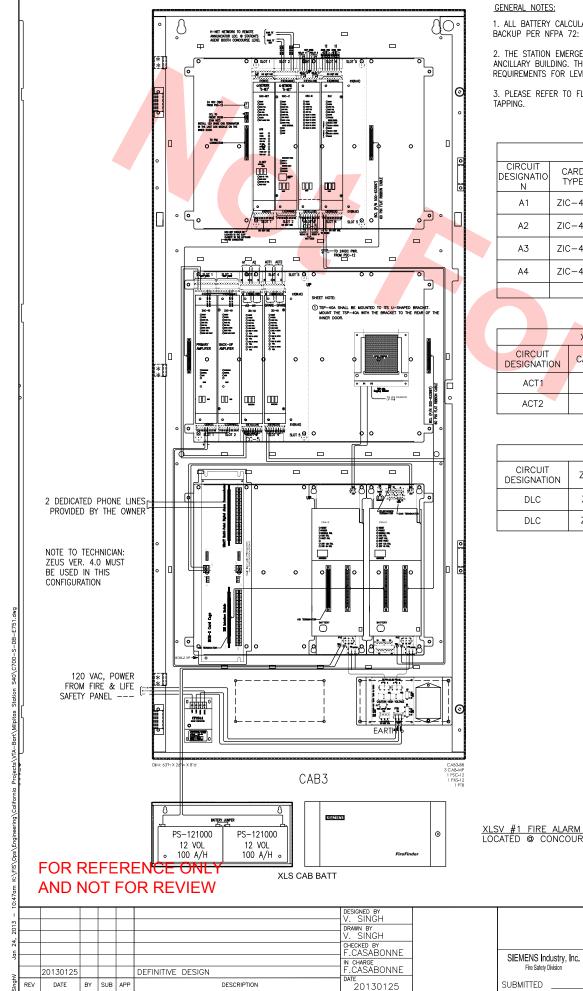












DESCRIPTION

1. ALL BATTERY CALCULATION ARE BASED ON A 4 HOUR BATTERY BACKUP PER NFPA 72: 10.5.10.3.2.1 & NFPA 110: CHAPTER 4.

2. THE STATION EMERGENCY GENERATOR IS LOCATED AT THE ANCILLARY BUILDING. THE EMERGENCY GENERATOR MEETS ALL THE REQUIREMENTS FOR LEVEL 1.

3. PLEASE REFER TO FLOOR PLANS FOR EACH SPEAKER WATTAGE

	XLSV – SPEAKER CIRCUIT SCHEDULE								
	CIRCUIT DESIGNATIO N	CARD TYPE	CIRCUIT DESCRIPTION	CIRCUIT LOCATION	CIRCUIT WATTAGE	CIRCUIT ALARM CURRENT			
	A1	ZIC-4A	SPEAKER ONLY (CLASS A)	CONCOURSE LEVEL	16	0.848000			
	A2	ZIC-4A	SPEAKER ONLY (CLASS A)	PLATFORM LEVEL	5.5	0.291500			
1	A3	ZIC-4A	SPEAKER ONLY (CLASS A)	PLATFORM LEVEL	5.5	0.291500			
	A4	ZIC-4A	SPEAKER ONLY (CLASS A)	ANCILLARY BUILDING	.75	0.039750			
				TOTAL	27.7500	1.4708			

	XLSV - NA	C ACTIVATION SCHE	DULE
CIRCUIT DESIGNATION	CARD TYPE	CIRCUIT DESCRIPTION	CIRCUIT LOCATION
ACT1	ZIC-4A	POWER BOOSTER	MILPITAS STATION
ACT2	ZIC-4A	POWER BOOSTER ACTIVATION	ANCILLARY BUILDING

	XLSV	' - SIGNALING LINE	CIRCUIT SCHEDULE	
CIRCUIT DESIGNATION	ZONE NO.	CIRCUIT DESCRIPTION	LOOP DESCRIPTION	CIRCUIT LOCATION
DLC	ZONE #1	SLC CIRCUIT (CLASS A)	1	CONCOURSE LEVEL & ANCILLARY BUILDING
DLC	ZONE #2	SLC CIRCUIT (CLASS A)	1	PLATFORM LEVEL

XLSV #1 FIRE ALARM & VOICE CONTROL UNIT LOCATED @ CONCOURSE LEVEL - EMP ROOM

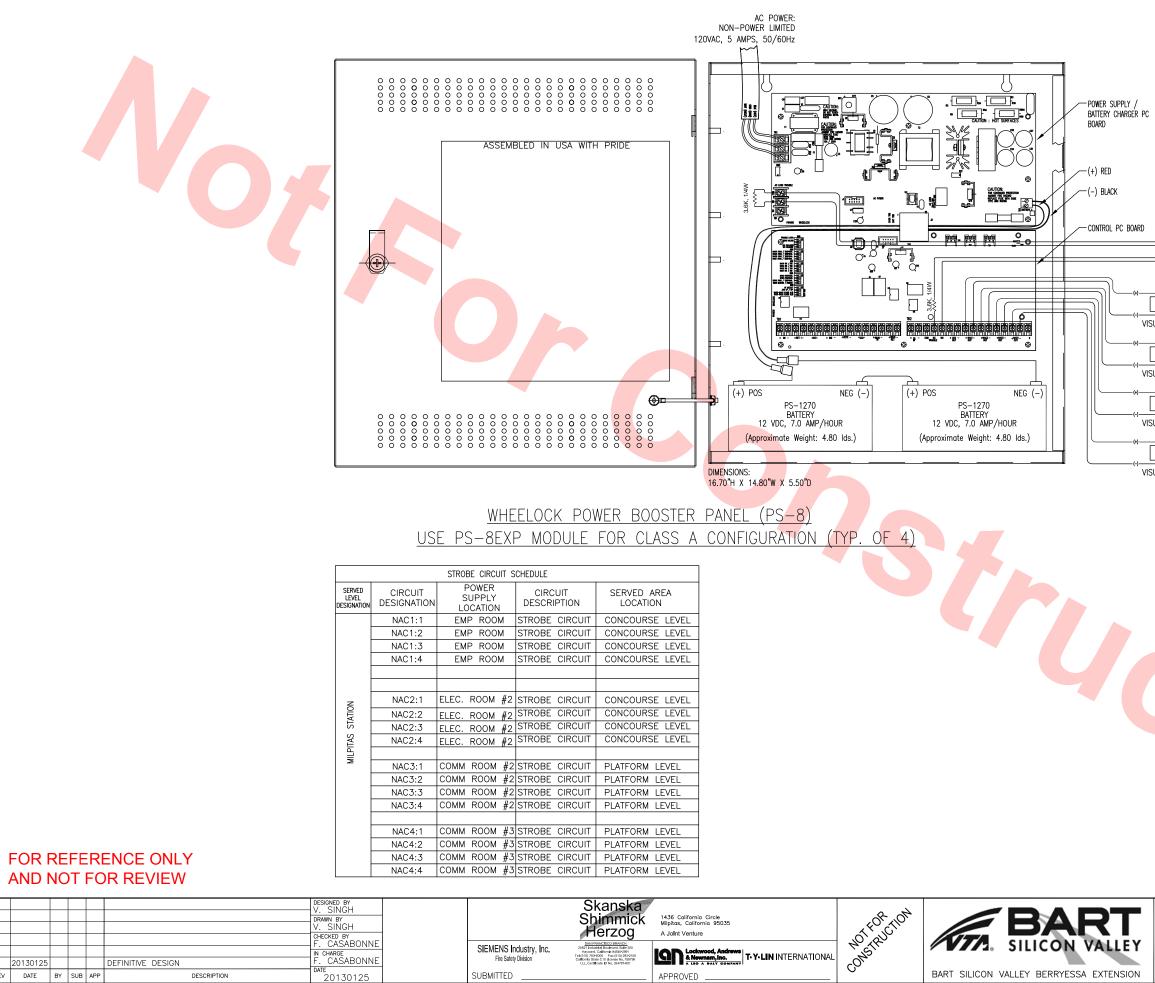
SAN FRANCISCO B 25821 Industrial Bouleva



1436 California Circle Milpitas, California 95035



CIRCUIT LOCATION CONCOURSE LEVEL ANCILLARY BUILDING PLATFORM LEVEL			
IATIONAL CONSTRUCT	BART SILICON VALLEY BERRYESSA EXTENSION	LINE, TRACK, STATIONS AND SYSTEMS MILPITAS STATION FIRE ALARM CONTROL UNIT DETAILS	CADD FILENAME C700-S-DB-E751.dwg SIZE SCALE D NONE CONTRACT NO. C700 AREA CODE SHEET NO. DB E751



SIEMENS Industry, Inc.

Fire Safety Division

SUBMITTED

Hayward, California 94545-2991 rel (510) 783-6000 Fax (510) 293-2100 California State C10 Lloense No. 758796 LLL Certificate ID No. 324787-001

CASABONNE

20130125

Lockwood, Andrews & Nownem, Ino. T-Y-LIN INTERNATIONAL

APPROVED

REV DATE BY SUB APP

20130125

DEFINITIVE DESIGN

DESCRIPTION

BART SILICON VALLEY BERRYESSA EXTENSION

R PC
RD FROM FACP OR PREVIOUS (LINE 1) > ANALOG LOOP (LINE 2) > TO NEXT ANALOG LOOP ( ANALOG LOOP ( TO NEXT ANALOG LOOP ( A
GROUND WIRE NOT USED BACK TO POWER SUPPLY USUAL STROBE CIRCUIT #1 (FOR PS-8 WPB AC LOSS & TROUP
VISUAL STROBE CIRCUIT #2 BACK TO POWER SUPPLY VISUAL STROBE CIRCUIT #3 BACK TO POWER SUPPLY CLASS A CIRCUIT VISUAL STROBE CIRCUIT #4
LINE, TRACK, STATIONS AND SYSTEMS MILPITAS STATION FIRE ALARM POWER SUPPLY DETAILS N STROBE CIRCUIT SCHEDULE CADD FILENAME C700-S-DB-E752.dwg SIZE SCALE D NONE CONTRACT NO. C700 AREA CODE SHEET NO. DB E752 CADD FILENAME C700-S-DB-E752.dwg NONE CONTRACT NO. C700 REV. DB E752 CADD FILENAME C700-S-DB-E752.dwg NONE CONTRACT NO. DB E752 CADD FILENAME C700-S-DB-E752.dwg NONE CONTRACT NO. DB E752 CONTRACT NO. C700 C

### XLSV #1 BATTERY CALCULATION

CRC-6 CONTROLLABLE RELAY CARD         1         0.051         0.02         0.151           20.5mA ser Active Relay         6         0.02         0.12         0.12           20.5mA ser Active Relay         6         0.02         0.12         0.23           CACNET IGRIFAL AUDIO CARD NETWORK         1         0.15         0.03         0.03           Signab per Active Handset         1         0.15         0.02         0.12           Signab per Active Handset         1         0.01         0.01         0.11           LVM LVE VOICE MODULE         1         0.025         0.025         0.025           LOCA. IF NGRIFALAUEIONE HITERFACE         1         0.012         0.01         0.12           ODMA per Active Relays         1         0.12         0.02         0.025           Store CA PING SUPPLY CHARGER MODULE         1         0.15         0.01         0.16           PSK-12 PURS SUPPLY CHARGER MODULE         1         0.01         0.01         0.16           Store CA PING SUPPLY CHARGER MODULE         1         0.01         0.01         0.016           Store CA PING SUPPLY CHARGER MODULE         1         0.01         0.01         0.01           Store CA PING SUPPLY CHARGER MODULE         1 <th></th> <th></th> <th>XLSV #1</th> <th></th> <th></th> <th></th> <th>ON</th> <th></th>			XLSV #1				ON		
DESCRIPTION         OTY         CURRENT         CURRENT         CURRENT         ROW CURRENT           CRC-6 CONTROLLABLE RELAY CARD         1         0.051         0.021         0.051         0.021           DAC-NET CIGITAL AUDIO CARD NETWORK         1         0.73         0.02         0.12           DAC-NET INGERGINESTER MASTER TELEPHONE         1         0.75         0.03         0.03           DB LOCAL PAGE BOARD         1         0.11         0.11         0.01         0.02         0.025           NIC-C NETWORK INTERFACE CARD         1         0.014         0.014         0.014         0.014           10m Ape Active LED         16         0.014         0.014         0.014         0.014           10m Ape Active LED         16         0.014         0.014         0.014         0.023           10m Ape Active Relays         1         0.15         0.04         0.15         0.15           11         0.15         0.04         0.16         0.04         0.15           11         0.15         0.04         0.16         0.04         0.15           11         0.15         0.04         0.16         0.04         0.15           11         0.15         0.04 </th <th></th> <th></th> <th></th> <th>UPERVISC</th> <th></th> <th></th> <th>DEVICE</th> <th>TOTAL</th>				UPERVISC			DEVICE	TOTAL	
20         Constrained and a set of the set		DES	CRIPTION	QTY				ROW CURREN	
DAC-HET LIGITAL AUDIO CARD NETWORK 1 022 02 023 PMT FIREFIGHTERS MASTER TELEPHONE 1 0.15 0.03 PMT FIREFIGHTERS MASTER TELEPHONE 1 0.15 0.03 DMA pr Active Handset T 0 0.00 0.03 LPB LOCAL PAGE BOARD 1 0.1 0.0 0.03 LPB LOCAL PAGE BOARD 1 0.12 0.025 NIC-C NETWORK INTERFACE CARD 1 0.12 0.026 NIC-C NETWORK INTERFACE CARD 1 0.12 0.014 0.014 DMA pr Active LED 1 0.025 0.026 PMT PERSON MACHNE INTERFACE 1 0.23 0.028 NIC-C NETWORK INTERFACE CARD 1 0.15 0.014 0.014 DMA pr Active Relays 4 0.044 0.16 DMA pr Active Relays 4 0.041 0.014 DMA pr Active Relays 0 0.000 0.000 DMA pr Active Relay 0 0.000 0.001 0.016 DMA pr Active Relay 0 0.000 0.001 0.016 DMA pr Active Relay 0 0.005 0.0005 DMAST DVERSED NPUT MODULE 1 0.022 0.022 MADAC'I MEREFACE 1 0.005 0.0005 DMAST DVLER AND LIFER CARD 40 WATTS 2 0.15 0.03 # Speaker Circuits 4 0.001 0.004 DAC-40 ZONE AMPLIFER CARD 40 WATTS 2 0.15 0.03 # Speaker Circuits 4 0.001 0.017 DACA-01 DUE AMPLIFER CARD 40 WATTS 2 0.15 0.13 MIGC NETRYRACE AND 1 0.12 0.12 DACA-02 ZONE INDICATING CARD 2 0.089 0.0178 DACA-02 ZONE INDICATING CARD 1 0.12 0.12 PS-12 POWER SUPPLY EXTENDER 1 0.015 0.15 DTAL CURRENT I DAL CURRENT I DAL CURRENT 1 0.15 0.15 DITAL PR ACTIVER ACE CARD 1 0.12 DACA-02 ZONE AMPLIFER CARD 40 WATTS 1 0.15 0.15 DITAL SUPERVISORY CURRENT × SUPERVISORY	CRC-6 CO	NTROLLAE	BLE RELAY CARD	1	0.051			0.051	
PMT FIREFIGHTERS MASTER TELEPHONE         1         0.15         0.03         0.03           30mA pr Active Handset         1         0.1         0.03         0.03         0.03           100 LOCAL PAGE BOARD         1         0.1         0.1         0.1         0.1         0.1           100 LOCAL PAGE BOARD         1         0.12         0.025         0.025         0.025           100 LOCAL PAGE BOARD         1         0.12         0.12         0.12         0.12           100 LOCAL PAGE BOARD         1         0.14         0.04         0.04         0.05           100 TA per Active ILED         16         0.01         0.15         0.23         0.23           100 TA per Active Relays         4         0.04         0.16         0.15         0.24           200 TA per Active Relays         4         0.014         0.014         0.15         0.15           200 TA per Active Relays         1         0.17         0.17         0.17         0.17           11 Tan A per LD (8 LED per Module)         8         0.001         0.001         0.001         0.005           200 AP Active Relay         0         0         0.01         0.005         0.033         20.23         0.23 </td <td>20.5mA</td> <td>per Active</td> <td>Relay</td> <td>6</td> <td></td> <td></td> <td>0.02</td> <td>0.12</td>	20.5mA	per Active	Relay	6			0.02	0.12	
30mA per Active Handset         1         0.03         0.03           LPB LOCAL PAGE BOARD         1         0.1         0.1         0.1         0.1           LPB LOCAL PAGE BOARD         1         0.1         0.1         0.1         0.1         0.1           LPB LOCAL PAGE BOARD         1         0.12         0.12         0.12         0.12           NuC CNETWORK INTERFACE CARD         1         0.12         0.01         0.16           OWE AND AP ACTIVE CHARGER MODULE         1         0.15         0.04         0.16           SPS-12 PUR SUPPLY CHARGER MODULE         1         0.15         0.16         0.15           SonA SWITCH CONTROL MODULE         1         0.15         0.04         0.16           TSP-40A PRINTER         1         0.17         0.17         0.17           SONA SWITCH CONTROL MODULE         1         0.02         0.02         0.02           1.2mA per Suprevised Input         16         0.001         0.010         0.011           1.2mA per Suprevised Input         16         0.001         0.010         0.025           SONSSO CSYSTEM STATUS DISPLAY         1         0.23         0.23         0.23           SONSSO CSYSTEM STATUS DISPLAY         1<	DAC-NET I	DIGITAL A	JDIO CARD NETWORK	1	0.23			0.23	
LPB LOCAL PAGE BOARD         1         0.1         0.1           LVM LIVE VOICE MODULE         1         0.025         0.025           LVM LIVE VOICE MODULE         1         0.012         0.025           DICC. NETWORK INTERFACE CARD         1         0.12         0.014           Ioma par charbox LED         16         0.011         0.016           PMI PERSON MACHINE INTERFACE         1         0.23         0.23           SOMA par charbox Relays         4         0.04         0.15           SOMA par charbox Relays         4         0.04         0.16           SYS 12 POWER SUPPLY CHARGER MODULE         1         0.15         0.17           SCMA SWITCH CONTROL MODULE         1         0.014         0.008         0.064           ImA par CLED (8 LED per Module)         8         0.001         0.014         0.011           IDma par charbe Relay         0         0         0.01         0.022         0.022           IDmA par charbe Relay         0         0         0.01         0.005         0.005           MOADCT MULER         1         0.38         0.33         0.23         0.23           MARCH MPLIFIER CARD 40 WATTS         2         0.05         0.005         <	FMT FIRE	IGHTERS	MASTER TELEPHONE	1	0.15			0.15	
LVM LIVE YOCE MODULE         1         0.025         0.028           NIC-C NETWORK INTERFACE CARD         1         0.12         0.012           OWN 16 OUTPUT CONTROL MODULE         1         0.014         0.014         0.011           10mA per Active LED         16         0.23         0.232           PSC-12 PVIR SUPPLY CHARGER MODULE         1         0.15         0.04         0.16           20mA per Active Relays         4         0.04         0.16         0.15           20mA per Active Relays         4         0.04         0.16         0.15           20mA per Active Relays         4         0.04         0.16         0.04         0.16           Strip Found APRINTER         1         0.17         0.17         0.17         0.17           Strip Found APRINTER         1         0.014         0.004         0.02         0.02           1.2mA per Superside Input         16         0.001         0.010         0.016           10mA per Active Relay         0         0.01         0.010         0.010           Strip Found Per Active Relay         0         0.01         0.010         0.021           Strip Found Per Active Relay         0         0.01         0.010				1			0.03	0.00	
NIC-C. RETWORK INTERFACE CARD 1 0.12 0.014 0.015 0.016 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.014 0.016 0.022 0.023 0.023 0.010 0.016 0.016 0.016 0.016 0.005 0.005 0.0				<u> </u>					
OCM-16 OUTPUT CONTROL MODULE         1         0.014         0.014           10mA per Active LED         16         0.01         0.18           10mA per Active Relays         4         0.023         0.23           PSC-12 PVIR SUPPLY CHARGER MODULE         1         0.15         0.04         0.16           PSX-12 POWER SUPPLY CHARGER MODULE         1         0.15         0.15         0.15           SOMA per Active Relays         4         0.014         0.04         0.16           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15         0.15           SOMA SWITCH CONTROL MODULE         1         0.014         0.014         0.014           1:anA per Supervised input         16         0.02         0.02         0.02           1:anA per Supervised input         16         0.001         0.016         0.036           SDSDSD CS SYEM STATUS DISPLAY         1         0.2         0.2         0.2           XAL PROVER AMPULIFIER CARD 40 WATTS         2         0.15         0.33         0.38           ZC-40 ZONE AMPULIFIER CARD 40 WATTS         2         0.16         0.33         0.23           ZC-40 ZONE AMPULIFIER CARD 40 WATTS         2         0.15         0.33         0.23					0.040				
10mA per Active LED         16         0.01         0.18           PMI PERSON MACHINE INTERFACE         1         0.23         0.23         0.23           PSC-12 PVIS SUPPLY CHARGER MODULE         1         0.15         0.15         0.15           20mA per Active Relays         4         0.04         0.16         0.15         0.15           S20mA per Active Relays         1         0.15         0.04         0.16         0.15           SCM & SWITCH CONITIOL MODULE         1         0.014         0.008         0.064           Ima per LED (6 LED per Module)         8         0.001         0.012         0.02           1.2mA per Supervised Input         16         0.001         0.016         0.022           10mA per Active Relay         0         0         0.01         0           SDDESDC SYSTEM STATUS DISPLAY         1         0.23         0.03         0.33           # Speeker Cincuits         4         0.001         0.005         0.005           MOACT INTERFACE         1         0.12         0.178         0.33           # Speeker Cincuits         4         0.001         0.004         0.178           CA-4 ZONE INDICATING CARD         2         0.089         0.178 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
PMI PERSON MACHNE INTERFACE         1         0.23         0.00         0.28           PSC-12 PVIR SUPPLY CHARGER MODULE         1         0.15         0.04         0.15           20mA pr Active Relays         4         0.04         0.15         0.15           SOMA pr Active Relays         4         0.04         0.16         0.15           SOMA pr Active Relays         4         0.014         0.04         0.17           SCM-S WITCH CONTROL MODULE         1         0.014         0.014         0.011           12mA pr Supervised input         16         0.02         0.02         0.02           12mA pr Supervised input         16         0.001         0.016         0.016           12mA pr Supervised input         16         0.001         0.011         0           SDISSD-C SYSTEM STATUS DISPLAY         0         2         0.2         0.2           MI MACT INTERFACE         1         0.036         0.001         0.038           ZC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.33           ZC-40 ZONE INDICATING CARD         2         0.069         0.0176           DACC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12           DAC-12 D				<u> </u>	0.014			0.011	
PSC-12 PV/R SUPPLY CHARGER MODULE         1         0.15         0.16           20mA per Active Relays         4         0.04         0.16           20mA per Active Relays         4         0.04         0.16           PSC-12 POWER SUPPLY EXTENDER         1         0.17         0.17           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           ImA per LED (8 LED per Module)         8         0.008         0.068           SIM-16 SUPERVISED INPUT MODULE         1         0.02         0.02           1.2mA per Supervised input         16         0.001         0.016           10mA per Active Relay         0         0.02         0.02           SDD/SDL SYSTEM STATUS DISPLAY         1         0.2         0.02           MI MACC TINEFFACE         1         0.038         0.38           ZO-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.03           # Speaker Circuits         4         0.001         0.004           ZO-40 ZONE INDICATING CARD         2         0.089         0.178           DAC-NET ENGTAL AUDIO CARD NETWORK         1         0.12         0.178           DAC-NET ENGTAL AUDIO CARD NETWORK         1         0.15         0.15					0.00		0.01		
20mA per Active Relays         4         0.04         0.16           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.16         0.16           PSX-12 POWER SUPPLY EXTENDER         1         0.17         0.17         0.17           SCM-8 SWTCH CONTROL MODULE         1         0.014         0.008         0.064           Min-6 SUPERVISED INPUT MODULE         1         0.02         0.02         0.02           1.2mA per Supervised Input         16         0.001         0.016         0.02           10mA per Active Relay         0         0         0.01         0         0.02           SUSSED SYSTEM STATUS DISPLAY         1         0.2         0.2         0.2         0.2           XMI MOACT INTERFACE         1         0.038         0.038         0.038         0.038           ZOL40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.3         3         0.38           ZOL40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.33         2         0.23           ZOL40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.33         2         0.34           ZOL40 ZONE AMPLIFIER CARD 1         0.12         0.12         0.176         0.176				<u> </u>					
DSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15           TSP-40A PRINTER         1         0.17         0.17         0.014           TSP-40A PRINTER         1         0.014         0.014         0.014           TSP-40A PRINTER         1         0.014         0.014         0.014           SUM-SWITCH CONTROL MODULE         1         0.02         0.02         0.02           1.2mA per Supervised input         16         0.001         0.011         0.016           10mA per Active Relay         0         0         0.01         0.010         0.055           SDISSD CS SVSTEM STATUS DISPLAY         1         0.22         0.2         0.2           WILDACT INTERFACE         1         0.005         0.005         0.038           ZC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.33         2         0.304           ZC-40 ZONE INDICATING CARD         2         0.069         0.0176         0.77           TOTAL CURRENT         TOTAL CURRENT         TOTAL CURRENT         0.12         0.12           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         0.12           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12					0.15		0.04		
TSP-40A PRINTER         1         0.17         0.17           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014         0.014           ImA perLED (8 LED per Module)         8         0.008         0.068         0.002           1.2mA per Superkised Input         16         0.001         0.016         0.016           10mA per Active Relay         0         0.01         0.016         0.016           SDISDLS SYSTEM STATUS DISPLAY         1         0.2         0.02         0.005           MACT DIALER         1         0.038         0.038         0.038           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.03         9           YE Speaker Circuits         4         0.001         0.004         2           AC40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.3         9           YE Speaker Circuits         4         0.001         0.004         2           DAC-NET ENDICATING CARD         2         0.089         0.178         3.041           DAC-NET ENGITAL AUDIO CARD NETWORK         1         0.23         0.23         129           DSCL ENDERTION         QTY         MODULE CURRENT         TOTAL CKT         CURRENT LOAD				<u> </u>	0.46		0.04		
SCM-8 SWTCH CONTROL MODULE         1         0.014         0.014           ImA per LED (8 LED per Module)         8         0.008         0.008           SUM-6 SUPERVISED INPUT MODULE         1         0.02         0.02           1.2mA per Supervised Input         16         0.001         0.016           10mA per Active Relay         0         0.01         0.010           SUSSED CSYSTEMS TATUS DISPLAY         1         0.22         0.2           SUSSED CSYSTEMS STATUS DISPLAY         1         0.28         0.38           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.33           ZAC-40 ZONE INDICATING CARD         2         0.089         0.178           ZC-4A ZONE INDICATING CARD         2         0.089         0.178           ALARM CURRENT         TOTAL CURRENT         TOTAL CKT         CURRENT LOAD           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12           PMI-PERSON MACHINE INTERFACE         1         0.23         0.23           NICC NETWORK INTERFACE CARD         1         0.15         0.15           SPS-12 POWER SUPPLY MODULE         1         0.15         0.15           TSP-40A PRINTER         1         0.16         0.38<			PLICAIENDER	<u> </u>					
ImA per LED (8 LED per Module)         8         0.008         0.064           SIM-16 SUPERVISED INPUT MODULE         1         0.02         0.02           SIM-16 SUPERVISED INPUT MODULE         1         0.02         0.02           SIM-16 SUPERVISED INPUT MODULE         1         0.02         0.01           SIM-16 SUPERVISED INPUT MODULE         1         0.02         0.01           SIM-16 SUPERVISED INPUT MODULE         1         0.02         0.01           SSD/SD-C SYSTEM STATUS DISPLAY         1         0.2         0.2           MIDACT INTERFACE         1         0.038         0.038           ZAC-40 ZONE AMPLIFIER CARD 40 WATIS         2         0.089         0.01         0.004           ZC-40 ZONE AMPLIFIER CARD 40 WATIS         2         0.089         0.0178         0.33           TOTAL CURRENT         TOTAL CURRENT         3.041         0.172         0.178           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         0.12           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         0.12           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         0.12           DAC-NET NUPLY MODULE         1         0				· ·					
SIM-16 SUPERVISED INPUT MODULE         1         0.02         0.02           1.2mA per Supervised Input         16         0.001         0.016           1.2mA per Supervised Input         16         0.001         0.016           SDD/SDC SYSTEM STATUS DISPLAY         1         0.2         0.02           XMI MDACT INTERFACE         1         0.005         0.005           MOADCT DULER         1         0.033         0.38           ZAC-40 ZONE INDICATING CARD         2         0.089         0.077           ZC-4A ZONE INDICATING CARD         2         0.089         0.078           ZC-4A ZONE INDICATING CARD         2         0.089         0.078           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           NICC- NETWORK INTERFACE         1         0.12         0.12           PMI-PERSON MACHINE INTERFACE         1         0.15         0.15           SPS-12 POWER SUPPLY MODULE         1         0.15         0.15           SPS-12 POWER SUPPLY WODULE         1         0.177         0.17           UPMI-PERSON MACHINE INTERFACE         1         0.15         0.15           SPS-12 POWER SUPPLY WOULE         1         0.15         0.15					0.014		0.008		
1.2mA per Supervised Input         16         0.001         0.016           10mA per Active Relay         0         0.01         0.016           10mA per Active Relay         0         0.01         0.016           SDUSSD.C SYSTEM STATUS DISPLAY         1         0.2         0.2           XMI MDACT INTERFACE         1         0.005         0.005           MOACT DULLER         1         0.38         0.38           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.3           # Speaker Circuits         4         0.001         0.004           ZIC-44 ZONE INDICATING CARD         2         0.089         0.178           TOTAL CURRENT         TOTAL CURRENT         1         0.12         0.178           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         0.12           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         0.12           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         0.12           DAC-NET SUPPLY MODULE         1         0.23         0.23         0.23           PS-12 POWER SUPPLY MODULE         1         0.15         0.15           TSP-40A PRINTER				-	0.02		0.000		
10mA per Active Relay         0         0.01         0           SDD/SDC/SYSTEM STATUS DISPLAY         1         0.2         0.01         0           SDD/SDC/SYSTEM STATUS DISPLAY         1         0.05         0.005           MDACT INTERFACE         1         0.005         0.005           MDACT INTERFACE         1         0.03         2           # Speaker Circuits         4         0.001         0.041           ZC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.089         0.011         0.042           ZC-40 ZONE INDIGATING CARD         2         0.089         0.178         0.041         0.041           ZC-40 ZONE INDIGATING CARD         0         1         0.178         0.041         0.041           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         0.12           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12         12           PMI-PERSON MACHINE INTERFACE         1         0.12         0.12         12           PS-412 POWER SUPPLY MODULE         1         0.15         0.15         15           TSP-40A PRINTER         1         0.17         0.17         11         1         1 <t< td=""><td></td><td></td><td></td><td><u> </u></td><td>0.04</td><td>0.001</td><td></td><td></td></t<>				<u> </u>	0.04	0.001			
SSD/SSD-C SYSTEM STATUS DISPLAY         1         0.2         0.2           WMI MDACT INTERFACE         1         0.005         0.005           MACT DULER         1         0.03         0.33           # Speaker Circuits         4         0.001         0.004           ZC-40 ZONE INDICATING CARD         2         0.089         0.176           TOTAL CURRENT         3.041           MICC NET ING CARD         2         0.089         0.076           TOTAL CURRENT         3.041           MODULE CURRENT           TOTAL CURRENT           TOTAL CURRENT           TOTAL CURRENT           TOTAL CURRENT           TOTAL CURRENT LOAD           DACONET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           NACE NETWORK INTERFACE         1         0.12         0.12           PMI-PERSION MACHINE INTERFACE         1         0.23         0.23           PSS-12 POWER SUPPLY MODULE         1         0.15         0.15           SEC/L2 POWER SUPPLY MODULE         1         0.177         0.17           PSS-12 POWER SUPPLY MODULE						0.001	0.01		
XMI MDACT INTERFACE         1         0.005         0.005           MDACT DULLER         1         0.38         0.38           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.3           # Speaker Circuits         4         0.001         0.004           ZC-42 ZONE INDICATING CARD         2         0.089         0.178           TOTAL CURRENT           ALARM CURRENT           TOTAL CURRENT           DESCRIPTION         QTY         MODULE CURRENT           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         CURRENT CURRENT           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         CURRENT CURRENT           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         CURRENT CURRENT           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12           DAC-NET SUPPLY MODULE         1         0.12           DACAD PARITER <t< td=""><td></td><td></td><td></td><td></td><td>0.2</td><td></td><td></td><td></td></t<>					0.2				
MDACT DIALER         1         0.38         0.38           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.15         0.03           # Speaker Circuits         4         0.001         0.004           ZC-40 ZONE AMPLIFIER CARD 40 WATTS         2         0.089         0.077           # Speaker Circuits         4         0.001         0.004           ZC-40 ZONE INDICATING CARD         2         0.089         0.178           TOTAL CURRENT         3.041         0.178         3.041           DESCRIPTION         OTY         MODULE CURRENT         TOTAL CKT CURRENT LOAD           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12           PMI-PERSON MACHINE INTERFACE         1         0.23         0.23           PSC-12 POWER SUPPLY MODULE         1         0.15         0.15           PS-40.P RINTER         1         0.17         0.17           IPP 40.0 RAINTER         1         0.16         0.005           IPP 40.0 RAINTER         1         0.15         0.15           IPP 40.0 RAINTER         1         0.15         0.15           IPP 40.0 RAINTER         1         0.15         0.15           IPP 40.0 RAINTER         1									
# Speaker Circuits         4         0.001         0.004           ZC-4A ZONE INDICATING CARD         2         0.089         0.178         0.078           TOTAL CURRENT         3.041           ALARM CURRENT           DESCRIPTION         OTY         MODULE CURRENT           DESCRIPTION         OTY         MODULE CURRENT           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         CURRENT LOAD           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         CURRENT LOAD           DAC-NET KINTERFACE CARD         1         0.12         CURE SUPPLY MODULE         1         0.15           SUPPLY MOTULE         1         0.17           DISA POWER SUPPLY MOTULE         1         0.17           DISA POWER SUPPLY EXTENDER         1         0.16           DISA POWER SUPPLY EXTENDER         1         0.					0.38			0.38	
# Speaker Circuits         4         0.001         0.004           ZC-4A ZONE INDICATING CARD         2         0.089         0.178         0.078           TOTAL CURRENT         3.041           ALARM CURRENT           DESCRIPTION         OTY         MODULE CURRENT           DESCRIPTION         OTY         MODULE CURRENT           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         CURRENT LOAD           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         CURRENT LOAD           DAC-NET KINTERFACE CARD         1         0.12         CURE SUPPLY MODULE         1         0.15           SUPPLY MOTULE         1         0.17           DISA POWER SUPPLY MOTULE         1         0.17           DISA POWER SUPPLY EXTENDER         1         0.16           DISA POWER SUPPLY EXTENDER         1         0.	ZAC-40 ZO	NE AMPL	FIER CARD 40 WATTS	2	0.15			0.3	
TOTAL CURRENT         3.041           ALARM CURRENT           DESCRIPTION         OTY         MODULE CURRENT         CORRENT LOAD           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23         0.23           NIC-C. NETWORK INTERFACE CARD         1         0.12         0.12         0.12           PMI-PERSON MACHINE INTERFACE         1         0.23         0.23         0.23           PSX-12 POWER SUPPLY DOULE         1         0.15         0.15         0.15           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15         0.15           SPS-12 POWER SUPPLY EXTENDER         1         0.11         0.1         0.1           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15         0.15           MI MACC TINEFFACE         1         0.05         0.005         0.005           MIDACT INTERFACE         1         0.38         0.38         0.38         0.38         0.38           LVM LIVE VOICE MODULE         1         0.015         0.15         0.15         0.15         0.15         0.26-42 ZONE INDICATING CARD         2         0.077         0.154         0.16         0.18 <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.001</td> <td></td> <td></td>						0.001			
ALARM CURRENT         TOTAL CKT CURRENT           DESCRIPTION         QTY         MODULE CURRENT         TOTAL CKT CURRENT           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           NIC-C NETWORK INTERFACE CARD         1         0.12         0.12           PMI-PERSON MACHNEI INTERFACE         1         0.23         0.23           PSC-12 PCWER SUPPLY MODULE         1         0.15         0.15           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15           TSP-40A PRINTER         1         0.17         0.17           UPB LOCAL PAGE BOARD         1         0.1         0.1           NMI MDACT INTERFACE         1         0.005         0.005           MODACT DULER         1         0.38         0.38           LVM LVE VOICE MODULE         1         0.15         0.15           DACT DULER         1         0.025         0.025           ZAC-40 ZONE AMPLIFIER CARD 40 WAITS         1         0.15         0.15           ZIC-43 ZONE INDICATING CARD         2         0.014         0.014           FMI FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           TOTAL SPEAKERS CURRENT (JOS3X7.75)         1.4708	ZIC-4A ZOI	NE INDICA	TING CARD	2	0.089			0.178	
DESCRIPTION         QTY         MODULE CURRENT         TOTAL CKT CURRENT LOAD           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           NIG-C NETWORK INTERFACE CARD         1         0.12         0.12           PMIPERSON MACHINE INTERFACE         1         0.23         0.23           PSC-12 POWER SUPPLY MODULE         1         0.23         0.23           PSC-12 POWER SUPPLY EXTENDER         1         0.15         0.15           PSL 02AL PAGE BOARD         1         0.1         0.1           PSL 02AL PAGE BOARD         1         0.1         0.1           VMI MDACT INTERFACE         1         0.025         0.005           MOACT DIALER         1         0.038         0.38           LVM LIVE VOICE MODULE         1         0.015         0.15           ZC-40 ZONE AMPLIFER CARD 40 WATTS         1         0.15         0.15           ZC-40 ZONE INDICATING CARD         2         0.077         0.154           SCAC-40 ZONE INDICATING CARD         1         0.18         0.18           TOTAL SUPERVISORY CONTROL MODULE         1         0.18         0.14           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18			TOTAL CURRENT					3.041	
DESCRIPTION         QTY         MODULE CURRENT         CURRENT LOAD           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.12         0.12           PMI-PERSON MACHINE INTERFACE         1         0.23         0.23           PSC-12 POWER SUPPLY MODULE         1         0.23         0.23           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15           TSP-40A PRINTER         1         0.17         0.17           LPB LOCAL PAGE BOARD         1         0.1         0.1           MI MACT INTERFACE         1         0.05         0.005           MIDACT INTERFACE         1         0.038         0.38           VMI LIVE VOICE MODILE         1         0.15         0.15           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.16         0.025           ZAC-40 ZONE AMPLIFIER CONTROL MODULE         1         0.16         0.18           VMI LIVE VOICE MODICATING CARD         2         0.077         0.154           SCM-9 SWITCH CONTROL MODULE         1         0.18         0.18           FM FIRERGHTERS         MASTER TELEPHONE         1         0.18         0.18									
DAC-NET DIGITAL AUDIO CARD NETWORK         1         0.23         0.23           NIC-C. NETWORK INTERFACE CARD         1         0.12         0.12           PMI-PERSON MACHINE INTERFACE         1         0.23         0.23           PSX-12 POWER SUPPLY MODULE         1         0.15         0.15           PSX-12 POWER SUPPLY MODULE         1         0.15         0.15           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15           TSP-40.A PRINTER         1         0.17         0.17           LPB LOCAL PAGE BOARD         1         0.1         0.1           MI MACT INTERFACE         1         0.055         0.005           MI MACT INTERFACE         1         0.38         0.38           LVM LIVE VOICE MODULE         1         0.055         0.025           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZC-42 ZONE INDECATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           CC-44 ZONE INDECATING CATIVATION ACT1         0.075         0.4708           PS-4 POWER SU		0.50	000071001	0.00		OURDENT			
0.0120         0.120         0.120           PMI-PERSON MACHINE INTERFACE         1         0.12         0.12           PMI-PERSON MACHINE INTERFACE         1         0.23         0.23           PSC-12 POWER SUPPLY MODULE         1         0.23         0.23           PSX-12 POWER SUPPLY MODULE         1         0.15         0.15           PSX-12 POWER SUPPLY EXTENDER         1         0.17         0.17           IPS 40A PRINTER         1         0.17         0.17           IPB LOCAL PAGE BOARD         1         0.1         0.1           MM MDACT INTERFACE         1         0.005         0.005           MOBACT IDULER         1         0.025         0.025           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           DIACT IDULER         1         0.025         0.025           ZAC-40 ZONE INDICATING CARD         2         0.077         0.154           SCM-9 SWITCH CONTROL MODULE         1         0.18         1.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1							CUR		
Non-Theorem         Nach-Indiana         Nach-India         Nach-Indiana         Nach-Indiana <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>					-				
Implementation         Implementation         Implementation         Implementation           PSX-12 POWER SUPPLY MODULE         1         0.123         0.23           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15           PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15           IPS 40A PRINTER         1         0.17         0.17           IPB LOCAL PAGE BOARD         1         0.1         0.1           MI MACT INTERFACE         1         0.038         0.38           LVM LIVE VOICE MODULE         1         0.055         0.025           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZC-42 ZONE INDICATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           CC-44 ZONE INDICATING CATIVATION ACT1         0.075         1.4708           PS-4 POWER SUPPLY ACTIVATION ACT1         0.075         0.36888           SUMMARY         A = TOTAL SUPERVISORY CURRENT         x SUPERVISORY CURRENT         3.6888     <									
PSX-12 POWER SUPPLY EXTENDER         1         0.15         0.15           TSP-40A PRINTER         1         0.17         0.17         0.17           LPB LOCAL PAGE BOARD         1         0.1         0.1         0.17           WI MDACT INTERFACE         1         0.005         0.0005           MODACT DULER         1         0.38         0.38           LVM LIVE VOICE MODULE         1         0.15         0.15           ZC-42 ZONE INDICATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.18         0.18           TOTAL SPEAKERS CURRENT (.053027.75)         1.4708         PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           SUMMARY         0         0         0         0         0           A = TOTAL SUPERVISORY CURRENT         X SUPERVISORY TIME REQUIRED         3.0888         SUPERVISORY TIME REQUIRED         3.08888           J.041         AMPS X 4 HR         SUPERVISORY TIME REQUIRED         15 MINS. or .25 HR           B = TOTAL ALARM CURRENT         BATTERY PROVIDED PS 121000 (2)         0				-					
Construction         Construction           DSP-40A PRINTER         1         0.17         0.17           LPB LOCAL PAGE BOARD         1         0.1         0.1         0.1           MIDACT INTERFACE         1         0.005         0.005         0.005           MDACT DIALER         1         0.33         0.38         0.38           VML ILVE VOICE MODULE         1         0.025         0.025           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZIC-4A ZONE AMPLIFIER CARD 40 WATTS         1         0.077         0.154           SCM-SWITCH CONTROL MODULE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           TOTAL SPEAKERS CURRENT (.053x27.75)         1.4708         PS-4 POWER SUPPLY ACTIVATION ACT 1         0.075           SUM         PS-4 POWER SUPPLY ACTIVATION ACT 1         0.075         9         -         0           SUMMARY         A = TOTAL SUPERVISORY CURRENT         XUPERVISORY TIME REQUIRED         3.6888           SUMMARY         ALARM TIME REQUIRED         SUPERVISORY TIME REQUIRED         -           A = TOTAL ALARM CURRENT         BATTERY PROVIDED PS-121000 (2)									
LPB LOCAL PAGE BOARD         1         0.1         0.1           XMI MACCT INTERFACE         1         0.005         0.005           MDACD DIALER         1         0.38         0.38           LVM LIVE VOICE MODULE         1         0.025         0.025           ZC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.014         0.014           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           TOTAL SPEAKERS CURRENT (J053027.75)         1.4708         1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075         0         0           SUPERVISORY CURRENT         x SUPERVISORY CURRENT         0         3.6888           SUMMARY         A = TOTAL SUPERVISORY TIME REQUIRED         3.6888         SUPERVISORY TIME REQUIRED	PSX-12 PC	WER SUP	PPLY EXTENDER	1	0.15			0.15	
XMI MDACT INTERFACE         1         0.005         0.005           MDACT DIALER         1         0.38         0.38           LVM LIVE VOICE MODULE         1         0.025         0.025           ZC4-04 ZONE AMPLIFIER CARD 40 WATIS         1         0.15         0.15           ZIC-4A ZONE INDICATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIREPIGHTERS MASTER TELEPHONE         1         0.18         0.18           FMT FIREPIGHTERS MASTER TELEPHONE         1         0.018         0.18           FMT FIREPIGHTERS MASTER TELEPHONE         1         0.018         0.18           FMT FIREPIGHTERS MASTER SUPPLY ACTIVATION ACT1         0.075         0.15           PS-8 POWER SUPPLY ACTIVATION ACT1         0.005         0           SUPERVISORY CURRENT         x SUPERVISORY TIME REQUIRED         0.6888           SUMMARY         A = TOTAL SUPERVISORY TIME REQUIRED         3.6888           SUPERVISORY TIME REQUIRED         4 HR         SUPERVISORY TIME REQUIRED	TSP-40A P	RINTER		1	0.17		0.17		
MDACT DIALER         1         0.38         0.38           LVM LIVE VOICE MODULE         1         0.025         0.025           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZC-44 ZONE INDICATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.13         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.175         1.4708           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075         0         0           PS-8 POWER SUPPLY ACTIVATION ACT1         0.005         0         0           SUMMARY         TOTAL ALARM CURRENT         x SUPERVISORY TIME REQUIRED         3.6888           SUMMARY         SUPERVISORY TIME REQUIRED         4 HR         ALARM TIME REQUIRED         4 HR           a TOTAL ALARM CURRENT         BATTERY PROVIDED PS 121000 (2)         25 HR	LPB LOCA	L PAGE B	OARD	1	0	0.1		0.1	
MDACT DIALER         1         0.38         0.38           LVM LIVE VOICE MODULE         1         0.025         0.025           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZC-44 ZONE INDICATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.13         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.175         1.4708           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075         0         0           PS-8 POWER SUPPLY ACTIVATION ACT1         0.005         0         0           SUMMARY         TOTAL ALARM CURRENT         x SUPERVISORY TIME REQUIRED         3.6888           SUMMARY         SUPERVISORY TIME REQUIRED         4 HR         ALARM TIME REQUIRED         4 HR           a TOTAL ALARM CURRENT         BATTERY PROVIDED PS 121000 (2)         25 HR	XMI MDAC	T INTERFA	VCE	1	0.0	005	0.005		
LVM LIVE VOICE MODULE         1         0.025         0.025           ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZIC-4A ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZIC-4A ZONE INDICATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           TOTAL SPEAKERS CURRENT (.053/27.75)         1.4708           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           V         PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           V         PS-8 POWER SUPPLY ACTIVATION ACT2         0           TOTAL ALARM CURRENT         XSUPERVISORY TIME REQUIRED         3.6888           SUMMARY         SUPERVISORY TIME REQUIRED         4 IR           ALARM TIME REQUIRED         SUPERVISORY TIME REQUIRED         4 IR           B = TOTAL ALARM CURRENT         BATTERY PROVIDED PS 121000 (2)				1					
ZAC-40 ZONE AMPLIFIER CARD 40 WATTS         1         0.15         0.15           ZIC-4A ZONE INDICATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           TOTAL SPEAKERS CURRENT (.053X27.75)         1.4708           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT2         0.0005           TOTAL SPEAKERS CURRENT         0           SUMMARY         3.6688           SUMMARY         3.66888           SUPERVISORY CURRENT         x SUPERVISORY TIME REQUIRED           3.041         AMPS x 4 HR           =         12.164 (AMP/HR)           B = TOTAL ALARM CURRENT         BATTERY PROVIDED PS-121000 (2)				1	-	005	0100		
ZIC-4A ZONE INDICATING CARD         2         0.077         0.154           SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIREPIGHTERS MASTER TELEPHONE         1         0.018         0.18           FW         TOTAL SPEAKERS CURRENT (05327.75)         1.4708           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           O         0           TOTAL SUPERVISORY CURRENT         0.08           x SUPERVISORY CURRENT         3.6888           SUMMARY         3.6888           A = TOTAL SUPERVISORY TIME REQUIRED         SUPERVISORY TIME REQUIRED           3.041         AMPS x 4 HR         SUPERVISORY TIME REQUIRED           a = TOTAL ALARM CURRENT         BATTERY PROVIDED PS 121000 (2)				· ·					
SCM-8 SWITCH CONTROL MODULE         1         0.014         0.014           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.18         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.018         0.18           FMT FIRERGHTERS MASTER TELEPHONE         1         0.0375         1.4708           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075         0         0           TOTAL ALARM CURRENT KART         SUPERVISORY CURRENT         3.6888         3.6888           SUMMARY         A         TOTAL SUPERVISORY CURRENT         3.6888         SUPERVISORY TIME REQUIRED         4 HR           a         TOTAL ALARM CURRENT         SUPERVISORY TIME REQUIRED         4 HR           a         12.164         (AMP/HR)         SUPERVISORY TIME REQUIRED         4 HR           B         TOTAL ALARM CURRENT         BATTERY PROVIDED PS 121000 (2)         2				· ·					
FMT FIRERGHTERS         MASTER TELEPHONE         1         0.18         0.18           TOTAL SPEAKERS CURRENT (053x27.75)         1.4708           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT1         0.005           O         0           TOTAL ALARM CURRENT (AMPS)         3.6888           SUMMARY         SUMMARY           A = TOTAL SUPERVISORY TIME REQUIRED         SUPERVISORY TIME REQUIRED           J.041         AMPS X 4 HR           =         12.164 (AMP/HR)           B = TOTAL ALARM CURRENT         BATTERY PROVIDED PS.121000 (2)				-					
Total SPEAKERS CURRENT (.053%27.75)         1.4708           PS-8 POWER SUPPLY ACTIVATION ACT 1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT 1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT 1         0.005           PS-8 POWER SUPPLY ACTIVATION ACT 2         0.005           TOTAL ALARM CURRENT (AMPS)         3.6888           SUMMARY         3.6888           A = TOTAL SUPERVISORY CURRENT         SUPERVISORY TIME REQURED           3.041         AMPS x 4 HR           =         12.164           (AMP/HR)         ALARM TIME REQUIRED—15 MINS. or 25 HR           B = TOTAL ALARM CURRENT         BATTERY PROVIDED PS.121000 (2)									
No.         PS-8 POWER SUPPLY ACTIVATION ACT 1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT 2         0.005         0           TOTAL ALARM CURRENT (AMFS)         3.6888         3.6888           SUMMARY           A = TOTAL SUPERVISORY CURRENT x SUPERVISORY TIME REQUIRED         3.6888           SUPERVISORY TIME REQUIRED           3.041         AMPS x 4 HR         SUPERVISORY TIME REQUIRED           a = TOTAL ALARM CURRENT         ALARM TIME REQUIRED         4 HR           B = TOTAL ALARM CURRENT         BATTERY PROVIDED PS 121000 (2)         20	FMT FIRE	IGHTERS	MASTER TELEPHONE	1	0	.18		0.18	
Y         Y         PS-8 POWER SUPPLY ACTIVATION ACT1         0.075           PS-8 POWER SUPPLY ACTIVATION ACT2         0.005         0           TOTAL ALARM CURRENT (AMFS)         3.6888         3.6888           SUMMARY         SUPERVISORY CURRENT         3.6888           A = TOTAL SUPERVISORY CURRENT         SUPERVISORY TIME REQUIRED         3.041           AMPS x 4 HR         SUPERVISORY TIME REQUIRED         4.421           3.041         AMPS x 4 HR         SUPERVISORY TIME REQUIRED         4.421           B = TOTAL ALARM CURRENT         BATTERY PROVIDED PS.121000 (2)         2.512	ž		TOTAL SPEAKERS CU	URRENT (.0	53X27.75)			1.4708	
O         O           0         0           TOTAL ALARM CURRENT (AMPS)           A = TOTAL SUPERVISORY CURRENT         3.6888           SUMMARY         3.6888           3.041         AMPS x 4 HR           =         12.164         (AMP/HR)           B = TOTALALARM CURRENT         BATTERY PROVIDED PS.121000 (2)	12	80	PS-8 POWER SUPPLY A	CTIVATION	ACT1			0.075	
TOTAL ALARM CURRENT (AMFS)         3.6888           SUMMARY         3.000           A = TOTAL SUPERVISORY CURRENT x SUPERVISORY TIME REQUIRED         SUPERVISORY TIME REQUIRED           3.041         AMPS x 4 HR         SUPERVISORY TIME REQUIRED           =         12.164         (AMP/HR)           B = TOTAL ALARM CURRENT         BATTERY PROVIDED	×	12	PS-8 POWER SUPPLY A	CTIVATION	ACT2			0.005	
SUMMARY           A = TOTAL SUPERVISORY CURRENT           X SUPERVISORY TIME REQUIRED           3.041         AMPS x 4 HR           =         12.164           (AMP/HR)         ALARM TIME REQUIRED	S							0	
A = TOTAL SUPERVISORY CURRENT x SUPERVISORY TIME REQUIRED 3.041 AMPS x 4 HR SUPERVISORY TIME REQUIRED4 HR = 12.184 (AMP/HR) ALARM TIME REQUIRED4 HR B = TOTAL ALARM CURRENT BATTERY PROVIDED PS.121000 (2)				т	OTAL ALARN	CURRENT (	AMPS)	3.6888	
x SUPERVISORY TIME REQUIRED           3.041         AMPS x 4 HR           =         12.164           (AMP/HR)         ALARM TIME REQUIRED				SUM	IMARY				
3.041         AMPS x 4 HR         SUPERVISORY TIME REQUIRED4 HR           =         12.164         (AMP/HR)         ALARM TIME REQUIRED4 HR           B = TOTALALARM CURRENT         BATTERY PROVIDED	A = TOTAL	SUPERV	ISORY CURRENT						
=         12.164 (AMP/HR)         ALARM TIME REQUIRED—15 MINS. or .25 HR           B = TOTALALARM CURRENT         BATTERY PROVIDED PS-121000 (2)									
B = TOTAL ALARM CURRENT BATTERY PROVIDED PS-121000 (2)	3.041				SUPERVISO	DRY TIME RE	QUIRED	4 HR	
	=	12.164	(AMP/HR)		ALARM TIM	E REQUIRED		or .25 HR	
V ALADM TIME DE ALIDED IDATTEDV SIZE 400 (AMD/UD)									
					BATTERY S	IZE	100	(AMP/HR)	
3.6888 AMPS x 15 MINS. = 0.922 (AMP/HR) TOTAL SYSTEM REQUIRED (A/H) = 15.703 AMP/HOUR	3.6888 =								
C = (A + B) x 1.2 (20% Safety Margin) BATTERY RESERVE AFTER	C = (A + B				BATTERY R	ESERVE AFT	ER		
= 15.703 (AMP/HR) 4 HOURS SUPERVISORY	=				4 HOURS S	UPERVISORY	,		
& 5 MINUTES ALARM (AMP/HOUR)									

= <u>84.297</u> AMP/HOUR

### Card/Module 24 VDC Current Card/Module 24 VDC Current e Current Per Total 1 Card/Module Total 2 Total 2 Total 2 Card/ Module Back Plane Current Quantity Per Card/Module CRC-6 1 10mA 0.133 6 20.5mA per 0.133 0.133 0 0 - active reay 1 230mA 0.23 0 0 0.23 1 0 0 100mA 0.1 0.1 252 0 0 1.8mk per device 0.4536 0.4536 0 0.15 1.5mk per device 0.45 0.15 DAC-NET DLC FMT 1 0 0 150mA 0.15 0.15 LPB 1 50mA 0.05 0 0 0.05 LVM 1 0 0 25mA 0.025 0.025 NIC-C 1 120mA 0.12 0 0 0.12

0

0

0.929

(Must not exceed 2 Amps)

0.23 0 0

0 380mA 0.38

0 14mA + 1mA per active LED 0.022

5mA 0.005

200mA 0.2

Total NAC device 0

0.23

0.005

0.38

0.022

0.2

0

(Must not exceed 5 Amps in Standby / 12 Amps in Alarm)

TOTAL 2.0986

PM 1

XM 1

SSD/SSD-C 1

1

1

8

MDACT

SCM-8

230mA

0

0

0

0

TOTAL

ZIC-4A 1 166mA max 0.166

PSC-12 POWER SUPPLY LOAD CALCULATION

		Card/Module	e 24 VDC Current	
Card/ Module	Quantity	Screw Terminal 24	Total 24 VDC Current	
		Per Card/Module	Total 2	(Total 1 + Total 2)
DLC	1	100mA	0.1	0.1
DLC	252	1.8mA per device	0.4536	0.4536
OCM-16	1	10.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	0.03	0.03
OCM-16	16	14mA + 1mA per active LED	0.03	0.03
SIM-16	1	10mA per active relay+ 1.2mA per	0.0292	0.0292
SINF 10	16	supervised input	0.0292	0.0292
TSP-40A	1	170mA	0.7	0.7
ZAC-40	2	150mA	0.3	0.3
2040-40	40	53mA per w att	2.12	2.12
ZIC-4A	1	227mA max	0.166	0.166
			TOTAL	3.8988
				(Must not exceed 12 Amps in Alarm)

N	AC#1 Lcc@CONC	OURSE LEVEL EMP		NAC1	BATTER	RYCALCU	LATIONS		
		SUPE	RVISORY	CURRENT					
	DES	CRIPTION		QTY	CURRENT	STAND	CURRENT		
NAC#1 L	oc@CONCOURS	E LEVEL EMP RM.		1		0.129	0.129		
						0			
(						0			
2		TOTAL CURRENT		Same		0.129			
8		AL	ARMCU						
СКТ	DEVICE	DESCRIPTION	QTY		CURRENT		AL CKT		
NAC1-1	STROBE ONLY 1	ISCD (CM)	0	1 0	064		0		
1.054	STROBE ONLY S		0	-	.098		0		
	STROBE ONLY 7		3		175	0	525		
	SPEAKER/STRO		1	-	109		109		
	SPEAKER/STRO		3		0.14		0.42		
NAC1:2	STROBE ONLY 1	15CD (CM)	0	0	.064		0		
	STROBE ONLY 7	75CD (WM)	3	0	.175	0	.525		
	SPEAKER/STRO	BE 75CD (WM)	2	0	.109	0	.218		
	SPEAKER/STRO	BE 110CD (WM)	2	1 0	0.14	0.28			
NAC1:3	STROBE ONLY 1	16CD (CM)	0	0	.064		0		
	STROBE ONLY 3	0	0	.098		0			
	STROBE ONLY 7		1	0.176			.176		
	SPEAKER/STRO	BE 75CD (WM)	6	0	.109	0	.545		
	STROBE ONLY 1		0	-	064		0		
0.809	STROBE ONLY 3		0		.098	0			
	STROBE ONLY 7		4	-	.175	0.7			
	SPEAKER/STRO	BE 75CD (WM)	1		.109		.109		
					LARM CURRE	NT (AMPS)	3.606		
			SUMMA						
	AL SUPERVISOR RVISORY TIME R 0.129 AMPS	EQUIRED			DRY TIME REQ E RQED 16 MI				
	0.616 (AMP/	HR)		BATTERY	ROVIDED - PS	-1270 (2)			
R	AL ALARM CURF	RENT		BATT	. SIZE 7.0 (AMF	/HR)			
	M TIME REQUIRE			TOTAL	SYSTEM REQ	UIRED (A/H	1)		
	= 3.606 AMPS + .129 AMPS x .26 HR				= <u>1.740</u> AMP/HOUR				
	0.934 (AMP)	HR)		PATTE	RYRESERVE	AFTER			
C=/A	B) x 1.2 (20% Sa	fety Maroin)			RS SUPERVIS				
0-(A	1.740 (AMP				NUTES ALARI				
	1.7.4V (AMIL	ning)		- 10 mi	= 5.260	AMP/HOU			

NA	C#3 Loc@	PLATE	ORM LEVEL COMM	RM.#2	NAC3	BATTE	RYCALCU	LATIONS	
				RVISORTO	T	DEVICE	STAND	ALARM	
			CRIPTION		QTY	CURRENT	BY	CURREN	
AC#3 L	oc@PLAT	FORM	LEVEL COMM RM.#	2	1		0.129	0.129	
						4	0		
			TOTAL CURRENT			-	0.129		
				LARMCURF	ENT		0.125	-	
СКТ	DE	EVICE	DESCRIPTION	QTY	DEVICE			TAL CKT	
AC3:1	STROBE	ONLY 1	5CD (CM)	0	r 0	0.064	1	0	
0.829	STROBE			0		0.098	1	0	
			5CD (WM)	1		.175	1	0.175	
			BE 75CD (WM)	6	0	.109		0.654	
AC3-2	STROBE	ONLY 1	5CD (CM)	0	0	.064	1	0	
	STROBE			0	-	0.098	1	0	
	SPEAKER/STROBE 75CD (WM) 5					.109	1	0.545	
AC3-3	STROBE		SCD (CM)	0	1 0	.064	-	0	
	STROBE			0	-	0.098	1	0	
			BE 75CD (WM)	6	-	0,109	1	0.654	
1403-4	STROBE			1 0	1 0	.064	1	0	
	STROBE			0	-	0.098	+	0	
0.040			BE 75CD (WM)	5	-	.109	0.545		
	or areitar		52 1005 (mm)			ARM CURRE			
				SUMMAR					
A = TOT	AL SUPER	VISOR	Y CURRENT x			ORY TIME RE	QUIRED -	4 HR	
SUPE	RVISORY	TIME R	EQUIRED		ALARM TIN	ME ROED 15 M	MINS. or .2	5 HR	
=	0.129	AMPS	x4HR						
-	0.516	(AMP/	HR)		BATTERY	PROVIDED - P	S-1270 (2	)	
					BATT. SIZE 7.0 (AMP/HR)				
	AL ALARN				3333000				
	M TIME RE		-			SYSTEM REG			
=			+.129 AMPS x.25	HR		= 1.430	AMP/HO	UR	
=	0.676	(AMP/	HR)						
						RYRESERVE			
C=(A+			fety Margin)			RS SUPERVIS			
=	1.430	(AMP	(HK)			INUTES ALAF			
					-	= 5.570	AMP/HO	UR	

N.F	C#2 Loc@CONCOURSE LEVEL ELEC. RM.		NAC2	BATTI	ERYCALC	ULATIONS
-	SUPERVIS	SURY CL	JRRENT	DEVICE	STAN	ALARM
	DESCRIPTION		OTY	CURRENT		CURRENT
NAC#2 L	oc@CONCOURSE LEVEL ELEC. RM.#2		1		0.129	0.129
			-	-	0	
					0	-
2	TOTAL CURRENT		-	-	0.129	
8	ALARI	CURR				
СКТ	DEVICE DESCRIPTION	QTY		CURRENT		RENT LOAD
NAC2:1	STROBE ONLY 15CD (CM)	0	1 0	0.064	1	0
0.848	STROBE ONLY 30CD (CM)	0	1 (	860.0	1	0
	STROBE ONLY 75CD (WM)	2		0.175	1	0.35
	SPEAKER/STROBE 75CD (WM)	2	1 (	0.109	1	0.218
	SPEAKER/STROBE 110CD (WM)	2	1	0.14		0.28
NAC2:2	STROBE ONLY 15CD (CM)	1 0	1	0.064	1	0
0.97	STROBE ONLY 30CD (CM)	0	-	0.098	+	0
0.01	SPEAKER/STROBE 110CD (WM)	2		0.14	+	0.28
	WP SPEAKER/STROBE 30CD (WM)	5		0.14		0.69
		0			-	0.65
NAC2:3 0.786	STROBE ONLY 15CD (CM)	0	-	0.064	+	
0.786	STROBE ONLY 30CD (CM)		-	800.098	+	0
	STROBE ONLY 75CD (WM)	2		0.175	+	0.35
	SPEAKER/STROBE 75CD (WM)	4		0.109	-	0.436
	STROBE ONLY 15CD (CM)	0	(	0.064		0
0.502	STROBE ONLY 30CD (CM)	0		860.0		0
	STROBE ONLY 75CD (WM)	1		0.175		0.175
	SPEAKER/STROBE 75CD (WM)	3		0.109	-	0.327
		MMAR)		LARM CURRI	ENT (AMP	S) 3.106
SUPE = = B = TOT	0.116 (AMP/HR) AL ALARM CURRENT x M TIME REQUIRED 3.106 AMPS + .129 AMPS x .25 HR		ALARM TIN BATTERY BATT TOTAL	ORY TIME RE ME RQED 15 I PROVIDED - F SIZE 7.0 (AM SYSTEM RE <u>1.590</u>	VIINS. or .1 PS-1270 (2 IP/HR) QUIRED (/ AMP/H(	:5 HR ) WH)
C = ( A + =	B) x 1.2(20% Safety Margin) 1.590 (AMP/HR)		4 HOU	RY RESERVE RS SUPERVIS INUTES ALAF = <u>5.410</u>	SORY	DUR
NA	C#4 Loc@PLATFORM LEVEL COMM RM.#3		NAC4	BATTE	RYCALC	ULATIONS
_	SUPERVIS	ORYCI	JRRENT	In succession in the second se		1
	DESCRIPTION		QTY	DEVICE		ALARM
NAC#4 L	DC@PLATFORM LEVEL COMM RM.#3		1		0.129	0.129
_					0	
					0	
	TOTAL CURRENT		S	10	0.129	
		I CURR	ENT			
скт	DEVICE DESCRIPTION	QTY	DEVICE	CURRENT		TAL CKT RENT LOAD

0.654 0.545 CURRENT (AMPS) 2.573

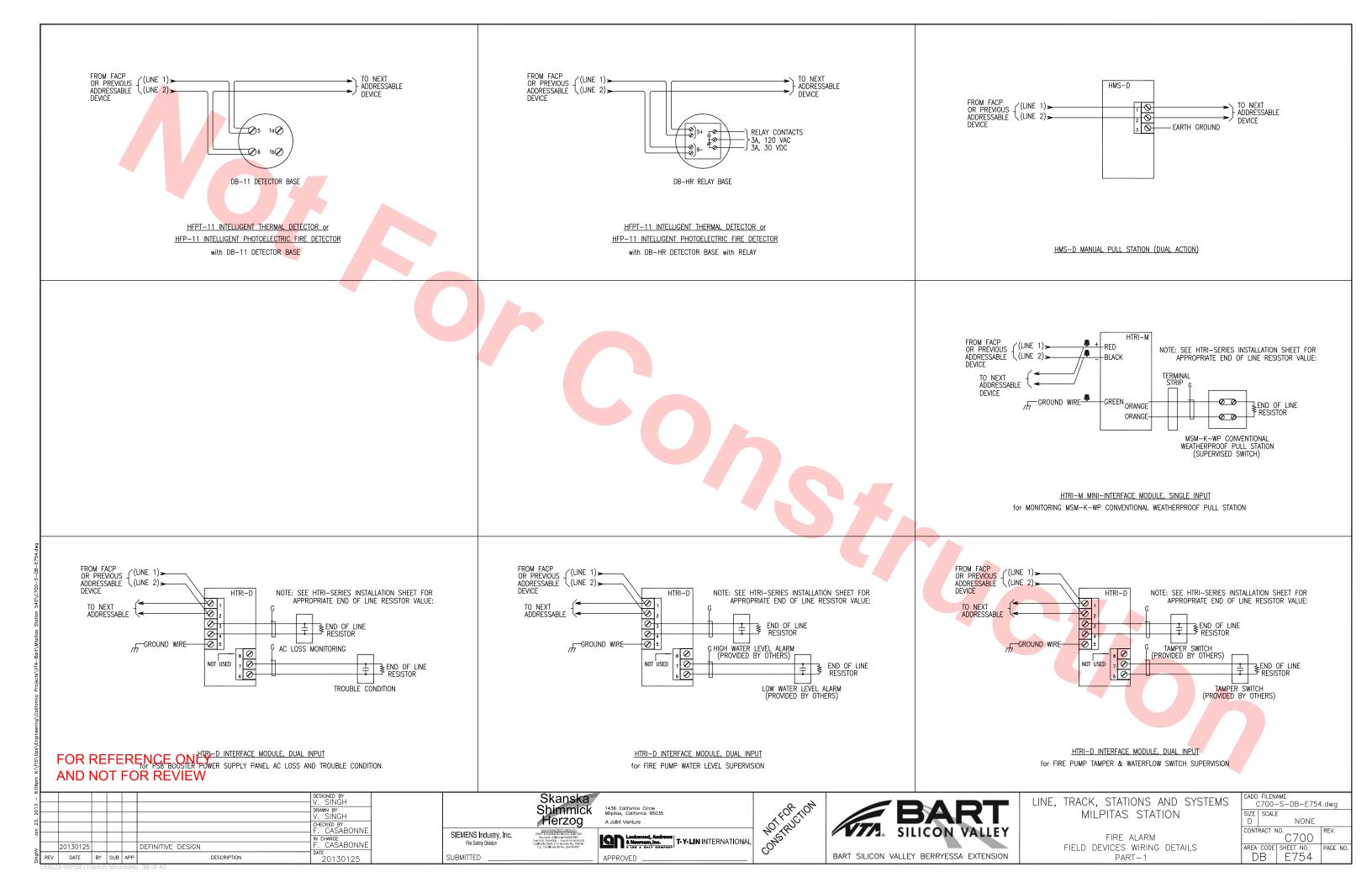
N	AC#4 Loc	@PLATFORM LEVEL COMM F			BATTE	RYCALC	ULATI	
_		SUPE	RVISORY	URRENT				
		DESCRIPTION		QTY	DEVICE	STAND BY	CUR	
NAC#4 L	oc@PLAT	FORM LEVEL COMM RM.#3		1		0.129	0	
-						0		
						0		
		TOTAL CURRENT		- 2.	- 0.	0.129		
		A	LARM CUR					
СКТ	1	DEVICE DESCRIPTION	QTY		CURRENT	CURRENT		
NAC4:1	STROBE	ONLY 15CD (CM)	0	0.	064		0	
0.829	STROBE	ONLY 30CD (CM)	0	0.	800	r	0	
	STROBE	ONLY 75CD (WM)	1	0.	175		0.175	
	SPEAKE	R/STROBE 75CD (WM)	6	0.	109		0.654	
NAC4:2	STROBE	ONLY 15CD (CM)	0	0.	064	0		
0.545	STROBE	ONLY 30CD (CM)	0	0.	0			
	SPEAKE	R/STROBE 75CD (WM)	5	0.	109	0.54		
NAC4:3	STROBE	ONLY 15CD (CM)	0	0.	064	1	0	
0.654	STROBE	ONLY 30CD (CM)	0	0.	098	0		
	SPEAKE	R/STROBE 75CD (WM)	6	0.	109		0.654	
NAC4:4	STROBE	ONLY 15CD (CM)	0.	0	0			
0.545	STROBE	ONLY 30CD (CM)	0	0.	0			
	SPEAKE	R/STROBE 75CD (WM)	5	0.	0.545			
				TOTAL AL	ARM CURREN	NT (AMPS	) 2	
1			SUMMAR				222	
A = TOT	AL SUPE	RVISORY CURRENT x		SUPERVISO	DRY TIME REC	UIRED -	4 HR	
SUPE	RVISORY	TIME REQUIRED		ALARM TIM	E ROED 15 M	INS. or .2	5 HR	
=	0.12	9 AMPS x 4 HR		X				
=	0.51	6 (AMP/HR)			ROVIDED - P		)	
				BATT.	SIZE 7.0 (AMF	P/HR)		
		M CURRENT x		1.00000			22.7	
		EQUIRED		TOTAL	SYSTEM REC			
1			۲		= 1.430	AMP/HO	UR	
=	0.676	(AMP/HR)		DATTE	RYRESERVE			
C-10-	D) v 1 1/	20% Safety Margin)			S SUPERVIS			
	1.430	(AMP/HR)			NUTES ALAR			
-	1,450	(AME/OK)		di 10 mil	= 5.570	AMP/HO		

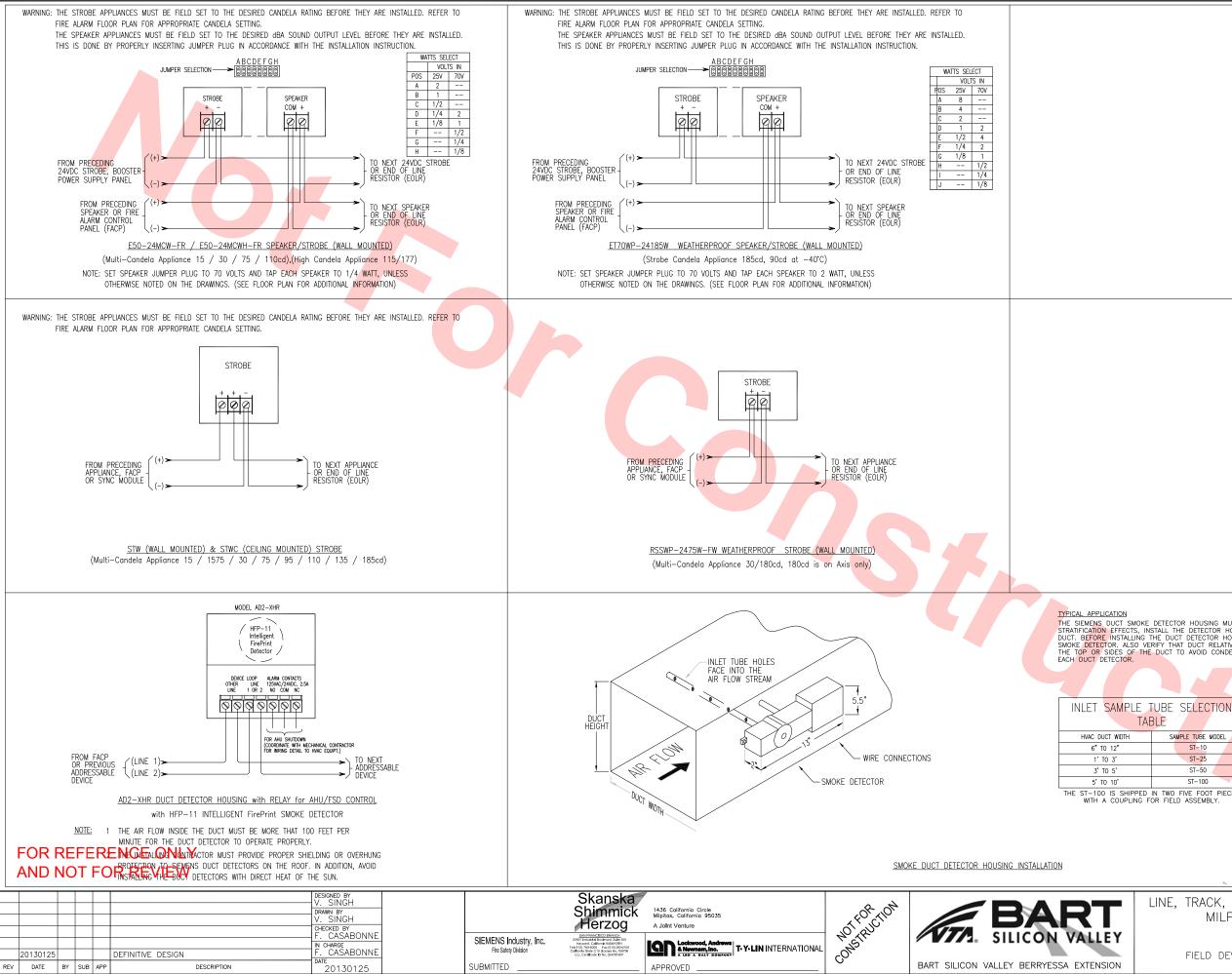
## FOR REFERENCE ONLY AND NOT FOD DEVIEW

1:30am	AND	NOTEC	DR REVIEW								
24, 2013 - 1				DESIGNED BY V. SINGH DRAWN BY V. SINGH CHECKED BY		Skanska Shimmick Herzog	1436 California Circle Milpitas, California 95035 A Joht Venture	TFORTION	BART	LINE, TRACK, STATIONS AND SYSTEMS MILPITAS STATION	CADD FILENAME C700-S-DB-E753.dwg SIZE SCALE D NONE
upf 1	20130125		DEFINITIVE DESIGN	CHECKED BY F. CASABONNE IN CHARCE F. CASABONNE	SIEMENS Industry, Inc. Fire Safety Division	SAN FRANCISCO BRANCH	Lookwood, Andrews & Nowmam, Inc. A MG & BAY BOMANY T. Y. LIN INTERNATIONAL	.0.	SILICON VALLEY	FIRE ALARM BATTERY AND VOLTAGE	CONTRACT NO. C700 AREA CODE SHEET NO. PAGE NO.
ωĽ	REV DATE	BY SUB APP ench Structure	DESCRIPTION e) 35 of 40	20130125	SUBMITTED		APPROVED	•	BART SILICON VALLEY BERRYESSA EXTENSION	DROP CALCULATIONS	DB E753

VOLTAGE DROP CALCULATIONS WIRE GAUGE: #12									
скт	DISTANCE (ft.)	CURRENT LOAD (amps)	VOLTAGE DROP (%)	OPERATING VOLTAGE (16-33 VOLTS)					
NAC1:1	250	1.054	4.273	19.528					
NAC1:2	450	1.023	7.464	18.877					
NAC1:3	800	0.72	9.340	18.495					
NAC1:4	675	0.809	8.854	18.594					
NAC2:1	400	0.848	5.500	19.278					
NAC2:2	530	0.97	8.336	18.699					
NAC2:3	350	0.786	4.461	19.490					
NAC2:4	900	0.502	7.326	18.906					
NAC3:1	500	0.829	6.721	19.029					
NAC3:2	830	0.545	7.335	18.904					
NAC3:3	580	0.654	6.151	19.145					
NAC3:4	920	0.545	8.130	18.741					
NAC4:1	500	0.829	6.721	19.029					
NAC4:2	830	0.545	7.335	18.904					
NAC4:3	580	0.654	6.151	19.145					
NAC4:4	920	0.545	8.130	18.741					
NAC5:1	450	0.356	2.208	19.950					

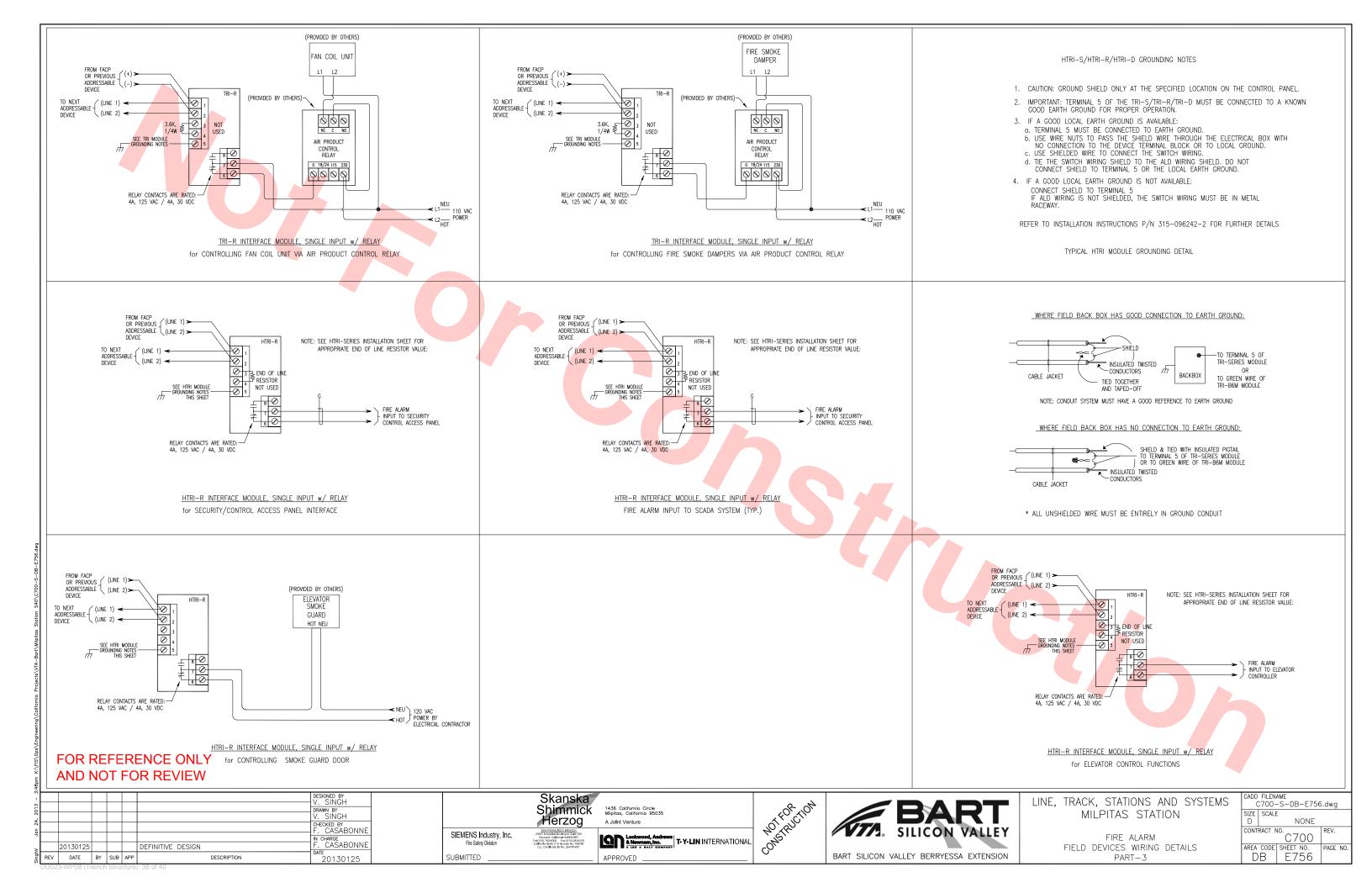
				DEVICE	STAND	ALARM
	DESCRIPTION		QTY	CURRENT		CURRENT
NAC#4 L	.oc@PLATFORM LEVEL COMM RM.#3	_	1		0.129	0.129
				-	0	
	TOTAL CURRENT				0.129	
		RM CUR	DENT		0,129	
	ALA	RM COR		URRENT	то	TAL CKT
СКТ	DEVICE DESCRIPTION	QTY		ING		RENT LOAD
	STROBE ONLY 15CD (CM)	0		)64		0
0.829	STROBE ONLY 30CD (CM)	0		98		0
	STROBE ONLY 75CD (WM)	1		175		0.175
	SPEAKER/STROBE 75CD (WM)	6	0.1	109		0.654
	STROBE ONLY 15CD (CM)	0	0.0	064		0
0.545	STROBE ONLY 30CD (CM)	0		998		0
	SPEAKER/STROBE 75CD (WM)	5	0.1	109		0.545
NAC4:3	STROBE ONLY 15CD (CM)	0	0.0	)64	1	0
	STROBE ONLY 30CD (CM)	0	0.0	98	-	0
	SPEAKER/STROBE 75CD (WM)	6	0.1	109		0.654
NAC4:4	STROBE ONLY 15CD (CM)	0	0.0	064		0
	STROBE ONLY 30CD (CM)	0	0.0	98	-	0
	SPEAKER/STROBE 75CD (WM)	5	0.1	109		0.545
			TOTAL AL	ARM CURREN	NT (AMPS	2.573
		SUMMAR	Ϋ́			
A = TOT	AL SUPERVISORY CURRENT x		SUPERVISO	RY TIME REC	UIRED -	4 HR
SUPE	RVISORY TIME REQUIRED		ALARM TIME	RQED 15 M	INS. or 25	5 HR
-	0.129 AMPS x 4 HR					
=	0.516 (AMP/HR)			ROVIDED - P		
			BATT.	SIZE 7.0 (AMP	P/HR)	
	AL ALARM CURRENT x		112561414-0			
	M TIME REQUIRED		100000000000	SYSTEM REQ		
	2.573 AMPS + .129 AMPS x .25 HR			= <u>1.430</u>	AMP/HO	UR
/*	0.676 (AMP/HR)				10000	
-				Y RESERVE		
	B) x 1.2 (20% Safety Margin)			S SUPERVIS		
	1.430 (AMP/HR)			UTES ALAR		
				= 5.570	AMP/HO	UR

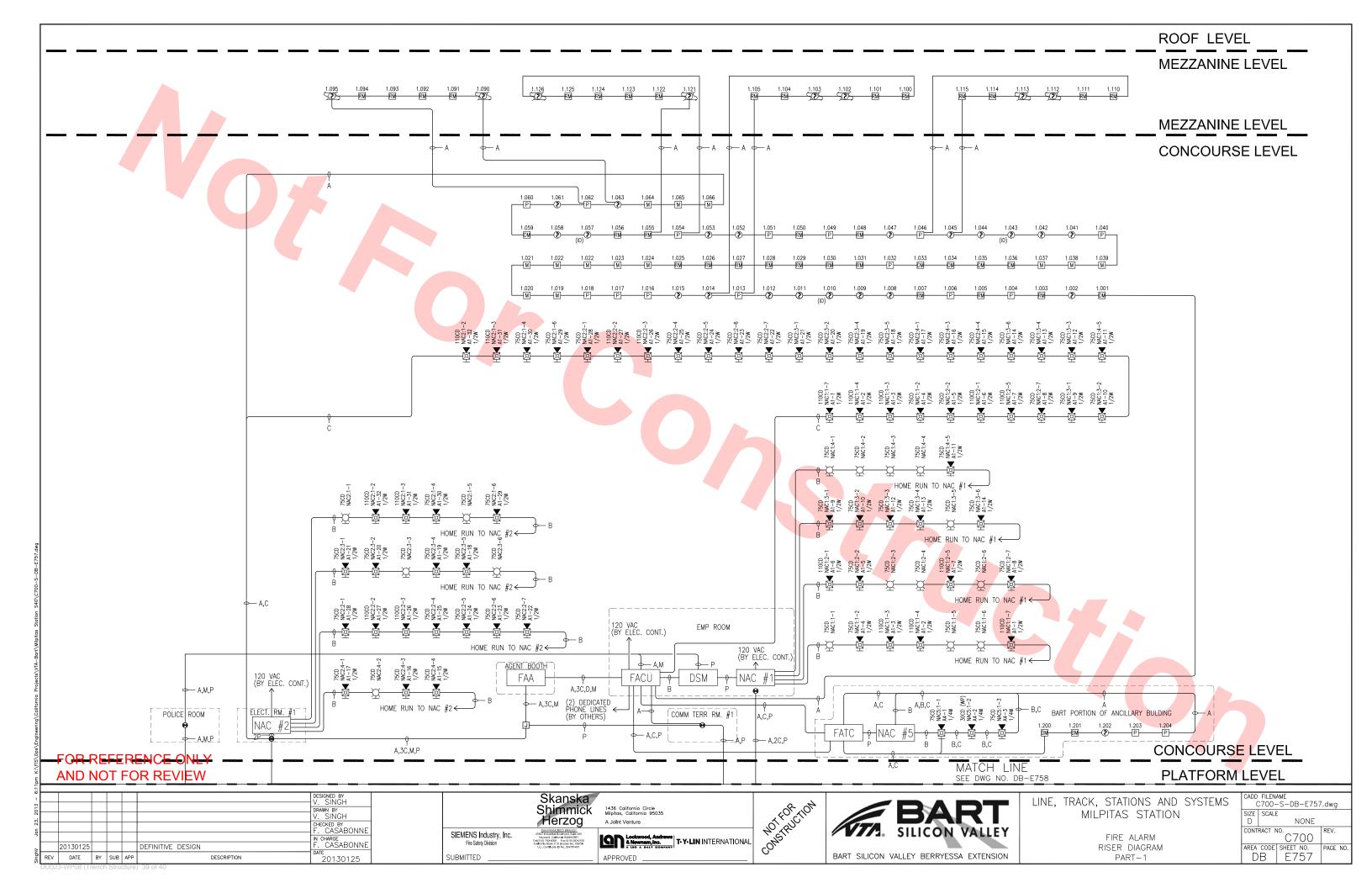


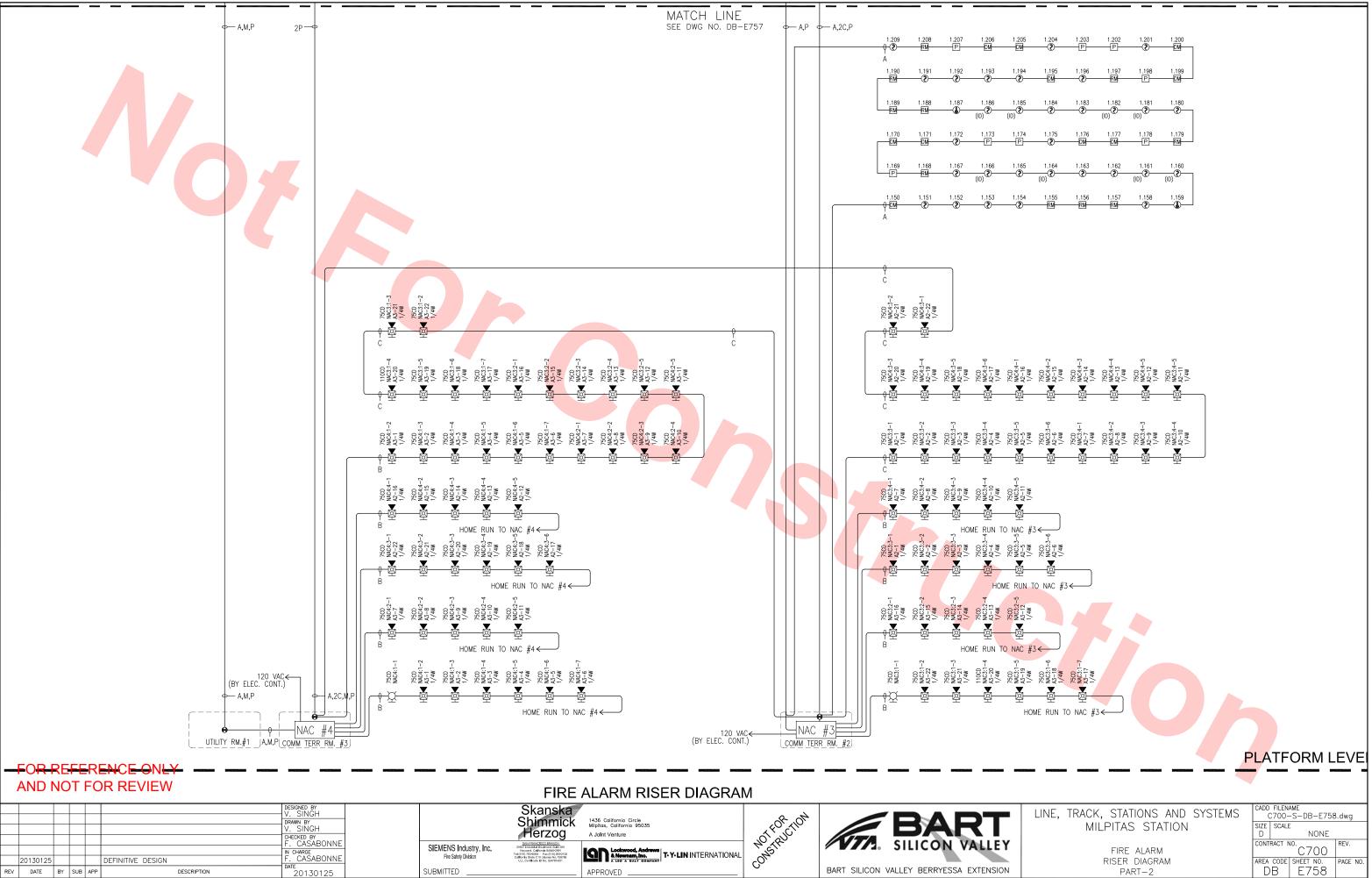


TAI	TUBE SELECTION BLE SAMPLE TUBE MODEL ST-10 ST-25 ST-50 ST-100 IN TWO FIVE FOOT PIECES FOR FIELD ASSEMBLY.	IMPORTANT: THIS DEVICE DRAWS AIR FRC INLET SAMPLE TUBE AND EXHAUSTS IT E THROUGH THE OUTLET TUBE. EACH INL MANUFACTURED WITH A DIFFERENT NUMB SAMPLING HOLES. THE SPECIFIC MODEL FOR THE DUCT WIDTH. THESE TUBES C AND MUST SPAN AT LEAST 80% THE WI ALWAYS USE THE NEXT LONGEST STAND TO THE EXACT REQUIREMENT. SAMPLING BE SUPPORTED ON THE OPPOSITE SIDE THE CORRECT OPERATION, THE RED STO INSERTED IN THE END OF THE AIR INPU	ACK INTO THE DUCT ET SAMPLE TUBE IS ER AND SIZE OF TUBE MUST BE USED AN BE CUT TO LENGTH DTH OF THE DUCT. ARD SIZE AND CUT DOWN TUBES OVER 3.0' MUST OF THE DUCT. TO ENSURE PPER (SUPPLIED) MUST BE			
•		ATIONS AND SYSTEMS AS STATION	CADD FILENAME C700-S-DB-E755.dwg SIZE SCALE D NONE			
	FII FIELD DEVIC	CONTRACT NO. C700 AREA CODE SHEET NO. DB E755				

THE SEMENS DUCT SMOKE DETECTOR HOUSING MUST BE INSTALLED ON A FLAT, ACCESSIBLE DUCT AREA. TO AVOID STRATIFICATION EFFECTS, INSTALL THE DETECTOR HOUSING A MINIMUM OF SIX DUCT WIDTHS BEYOND ANY BENDS IN THE DUCT. BEFORE INSTALLING THE DUCT DETECTOR HOUSING, VERIFY THAT DUCT AIR VELOCITY IS WITHIN THE LIMITS OF THE SMOKE DETECTOR. ALSO VERIFY THAT DUCT RELATIVE HUMIDITY IS WITHIN 0-93%, NONCONDENSING. MOUNT ONLY ON THE TOP OR SIDES OF THE DUCT TO AVOID CONDENSATION ISSUES. A PAPER MOUNTING TEMPLATE IS PROVIDED WITH EACH DUCT DETECTOR.







FIRE ALARM RISER DIAGRAM	
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						DESIGNED BY V. SINGH DRAWN BY V. SINGH CHECKED BY		Skanska Shimmick Herzog	1436 California Circle Milpitos, Colifornia 95035 A Joint Venture	NOTENETION	ATT A	BART
						F. CASABONNE	SIEMENS Industry, Inc.	SAN FRANCISCO BRANCH 25821 Industrial Boulevard, Subr 300 Hayward, California 94545-2991 Tel (510) 783-6000 Fax (510) 283-2100 California State C10 Losense No. 758795	Lockwood, Andrews & Nowment, Inc.	N.C.N.	////2.	SILICON VALLEY
	20130125	5			DEFINITIVE DESIGN	F. CASABONNE	Fire Safety Division	California State C10 License No. 758796 U.L. Certificate ID No. 324787-001	<b>SAL A Nownem, Inc.</b> A LIG A DALY GOMPANY <b>T-Y-LIN</b> INTERNATIONAL	<sup>o</sup>		
REV	DATE	BY	SUB	APP	DESCRIPTION	20130125	SUBMITTED		APPROVED	0	BART SILICON	VALLEY BERRYESSA EXTENSION
DU02	3-WP08 (1	Frenc	h Struc	ture)	40 of 40							

1.205	1.204	1.203	1.202	1.201	1.200
UM					UM
1.194 	1.195 DM	1.196 	1.197 RM	1.198 	1.199 DM
1.185	1.184	1.183	1.182	1.181	1.180
(ID)		-®	(ID)	(ID)	
1.174 	1.175	1.176	1.177	1.178 P	1.179 RM
1.165 	1.164	1.163	1.162	1.161	1.160
1.154	(ID) 1. <u>15</u> 5	1.156	1.157	(ID) 1.158	(ID) 1.159
-0-	RM	RM	RM	-®	