DU-023

Not For Construction

SSH JV

Milpitas Station
Design Unit 023
Readiness for Construction
Systems

SVBX C700

Wednesday, July 10, 2013

HALF SIZE
COPY

WARM SPRINGS PROJECT

DESIGNATION	FACILITY
WSX	WARM SPRINGS EXTENSION
PASSENGER STATIONS	
S10	OPTIONAL IRVINGTON STATION
S20	WARM SPRINGS STATION
TRACKS	
S1	FREMONT STATION TO WARM SPRINGS STATION
S2	WARM SPRINGS STATION TO FREMONT STATION
SECTIONALIZING STATIONS	
SWS	WARM SPRINGS STATION
TRACTION POWER SUBSTATION	
SFM	FREMONT STATION
SPP	PASEO PADRE
SBR	BLACOW ROAD
SWS	WARM SPRINGS STATION
GAP BREAKER STATION	
SXA	AUTO MALL PKWY
TRAIN CONTROL ROOMS/HOUSE	
S06	PASEO PADRE TH
S10	IRVINGTON STATION
S20	WARM SPRINGS STATION
INTERLOCKING	
S07	PASEO PADRE
S15	AUTO MALL PKWY
S21	WARM SPRINGS TAIL TRACKS
VENTILATION STRUCTURES	
CPS	CENTRAL PARK
LES	LAKE ELIZABETH

SILICON VALLEY BERRYESSA EXTENSION

DESIGNATION	FACILITY
PASSENGER STATIONS	
S30	SOUTH CALAVERAS STATION (OPTIONAL)
S40	MILPITAS STATION
S50	BERRYESSA STATION
TRACKS	
S1	WARM SPRINGS STATION TO BERRYESSA STATION
S2	BERRYESSA STATION TO WARM SPRINGS STATION
HIGH VOLTAGE SUBSTATIONS (HVSS)	
SRC	RAILROAD COURT
SLP	LAS PLUMAS AVENUE
SECTIONALIZING STATIONS (SES)	
SME	MONTAGUE EXPWY.
SWITCHING STATIONS (SWS)	
SRR	RAILROAD COURT
SSL	LAS PLUMAS AVENUE
TRACTION POWER SUBSTATIONS (TPSS)	
SWA	WARREN AVENUE
SKR	KATO ROAD
SRR	RAILROAD COURT
SME	MONTAGUE EXPWY.
SHO	HOSTETTER ROAD
SBE	BERRYESSA STATION
GAP BREAKER STATIONS (GBS)	
SXB	CALAVERAS BLVD.
SXC	BERRYESSA ROAD
TRAIN CONTROL ROOMS (TCR)	
S30	SOUTH CALAVERAS STATION (OPTIONAL)
S40	MILPITAS STATION – NORTH END
S50	BERRYESSA STATION – SOUTH END
TRAIN CONTROL HOUSES (TCH)	
S24	WARREN AVENUE
S26	KATO ROAD
S28	RAILROAD COURT
S44	SOUTH OF HOSTETTER ROAD
INTERLOCKINGS	
S25	KATO ROAD
S27	SOUTH OF ABEL STREET
S29	SOUTH OF CALAVERAS BLVD
S37	NORTH OF MILPITAS STATION
S45	NORTH OF BERRYESSA STATION
S55	SOUTH OF BERRYESSA STATION
HI-RAIL ACCESS	
MW54	CALAVERAS BLVD.
MW55	MABURY ROAD
PUMPING PLANTS (LIFT STATIONS)	
SDL	DIXON LANDING ROAD
SPD	GREAT MALL DRIVE
STZ	NEAR TRADE ZONE BLVD.
SHR	NEAR HOSTETTER ROAD
SLA	NEAR LUNDY AVE. & SIERRA ROAD

CABINET DESIGNATION

CABINETS 1 THROUGH 19 – TRAIN CONTROL

1	– AUTOMATIC TRAIN CONTROL TERMINATIONS
2–3	– TRACK CIRCUITS AND LOGIC
5	– TRAIN CONTROL SUPERVISORY & CONTROL (BASIC STATION ATO)
6–10	– TRACK CIRCUITS AND LOGIC
11–19	– INTERLOCKING

CABINETS 20 THROUGH 29 – COMMUNICATIONS AND ATC

20	– SPLICE/CABLE ENTRY
21	– MAIN DISTRIBUTION FRAME – CABLE PLANT PROTECTORS
21A	– MAIN DISTRIBUTION FRAME – CABLE PLANT CROSSCONNECT
22	– IPPBX TELEPHONE EQUIPMENT
22A	– PABX SWITCH
23A	– STATION/TCH SCADA INTERFACE
23B	– STATION/TCH SCADA PAC
25	– TELEPHONE TERMINATION CABINET
27	– PA TERMINATION
29	– SEQUENTIAL OCCUPANCY RELEASE SYSTEM (SORS) OR AUXILIARY TRAIN TRACKING SYSTEM (ATTS)

CABINETS/POWER PANELS 30 THROUGH 39 – POWER EQUIPMENT

30	– BATTERY
31	– BATTERY CHARGER
32	– INVERTER/STATIC BY-PASS
33H	– POWER DISTRIBUTION SWITCHBOARD/PANEL 480V
34NA	– LOW VOLTAGE PANEL BOARD – NON-ESSENTIAL
34EA	– LOW VOLTAGE PANEL BOARD – ESSENTIAL
35	– SWITCH MACHINE POWER
36A	– 480 VOLT DISTR PANEL (ESSENTIAL)
36B	– 480 VOLT DISTR PANEL (NON-ESSENTIAL)
37A	– 120 VOLT DISTR PANEL (ESSENTIAL, TC)
37B	– 120 VOLT DISTR PANEL (ESSENTIAL, TC & C)
37C	– 120 VOLT WAYSIDE SPSC DISTR PANEL (NON-ESSENTIAL)
37D	– 120 VOLT COMM DISTR PANEL (NON-ESSENTIAL)
38	– 12V DC, 28V DC, 110V DC
38A	– 28V DC

CABINETS 40 THROUGH 49 – STATION COMMUNICATIONS/ PA/TRAIN DESTINATION

40	– DESTINATION SIGN SYSTEM
41	– PA SYSTEM
44A/F/G/P	– SCADA TERMINATION CABINET
45	– FARE COLLECTION DAS
47	– SIGN CONTROL PANEL

CABINETS 50 THROUGH 59 – AUX POWER/STATION LIGHTING/SIGN CONTROLS

50	– STATION EMERGENCY LIGHTING BATTERY
51	– STATION EMERGENCY LIGHTING BATTERY CHARGER
52	– STATION EMERGENCY LIGHTING POWER PANELS
53	– PASSENGER STATION SIGNS

CABINETS 60 THROUGH 69 – LOCAL CONTROL/TC VENTILATION/SUP CONTROL

60	– LOCAL MANUAL CONTROL PANEL

CABINETS 70 THROUGH 79 – TRAIN CONTROL TEST & SIMULATION

76	– T/C TEST EQUIPMENT

CABINETS 80 THROUGH 89 – (STATION COMPUTERS/LAN)

83	– ADMIN NET

CABINETS 90 THROUGH 311 – COMM CARRIER/VIDEO REPEATERS/CARRIER PWR SUP

93	– 48V DC POWER SUPPLY
95	– CCTV SYSTEM
96	– FIBER MDF
100	– LAN NETWORK SWITCH
102	– UON EQUIPMENT
200	– AFC
301	– RIDS
311	– LOCAL RIDS CABINET

CABINET DESIGNATION (CONT'D)

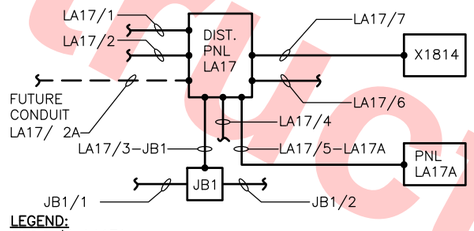
TRACTION POWER SUBSTATION/GAP BREAKER CABINET DESIGNATORS

A01	– 34.5KV SWITCHGEAR CUBICLE NO. 1
A02	– 34.5KV SWITCHGEAR CUBICLE NO. 2
AUX01	– 34.5KV SWITCHGEAR AUXILIARY CUBICLE NO. 1
AUX02	– 34.5KV SWITCHGEAR AUXILIARY CUBICLE NO. 2
B01	– 1000V DC CIRCUIT BREAKER CUBICLE NO. 1
B02	– 1000V DC CIRCUIT BREAKER CUBICLE NO. 2
C02	– CONTROL & ANNUNCIATOR PANEL
C03	– FIBER DISTRIBUTION PANEL
D01	– 125V DC DISTRIBUTION PANEL
D02	– BATTERY
D03	– BATTERY CHARGER
D05	– BATTERY DISCONNECT
F01	– FIRE PROTECTION PANEL
G01	– NEGATIVE GROUNDING DEVICE CABINET
GTS	– GROUND TEST STATION
HC02	– HIGH VOLTAGE SUBSTATION CONTROL & ANNUNCIATOR PANEL
L01	– 208/120V AC DISTRIBUTION PANEL NO. 1
L02	– 208/120V AC DISTRIBUTION PANEL NO. 2
NB01	– NEGATIVE BUS ENCLOSURE
P01	– 480V AC, 3ø, SWITCHBOARD W/ATS
S01	– 34.5KV DISCONNECT SWITCH NO. 1
TTC	– TRANSFER TRIP CABINET
X01	– RECTIFIER TRANSFORMER NO. 1
X02	– RECTIFIER TRANSFORMER NO. 2
X11	– AUXILIARY POWER TRANSFORMER
X12	– ISOLATION POWER TRANSFORMER
Y01	– YARD CONTROL BOARD
Z01	– RECTIFIER NO. 1
Z02	– RECTIFIER NO. 2

CONDUIT DESIGNATIONS

CONDUIT	SYSTEM DESCRIPTION
1KXXX	34.5 KV SYSTEM
2KXXX	1000V DC SYSTEM
3KXXX	120–480V LIGHTING & AUX PWR
4KXXX	TRAIN CONTROL SYSTEM
5KXXX	COMMUNICATIONS
6KXXX	CONTROL POWER, 48–125V DC
7KXXX	FIRE ALARM CONTROL / ANNUNCIATION LESS THAN 48V
8KXXX	4.16KV POWER SYSTEM
9KXXX	COMMERCIAL TELECOMMUNICATIONS

CONDUIT NUMBERING



LEGEND:
LA17 /5–LA17A

WHERE:
LA17 – UPSTREAM PANEL
5 – CONDUIT NUMBER FROM UPSTREAM PANEL
LA17A – DOWNSTREAM PANEL (WHERE APPLICABLE)

NOTES:
1. ASSIGNMENT OF NUMBERS TO CONDUITS SHALL START FROM TOP TO BOTTOM ON THE LEFT SIDE OF THE PANEL AND INCREASING IN COUNTER-CLOCKWISE ROTATION.

SPLICE BOX MANHOLE & PULLBOX DESIGNATION

PH 123

- THE FIRST DIGIT OF THE 3-DIGIT NUMBER IS THE SAME NUMBER AS THE FIRST DIGIT OF THE NEAREST STATION ON THE INBOUND SIDE. THE LAST TWO DIGITS INCREASE SEQUENTIALLY, BEGINNING WITH "01". MANHOLES/PULLBOXES BRANCHING OFF A MAIN RUN HAVE THE SAME NUMBER AS THE MAIN MANHOLE/PULLBOX WITH A SUFFIX LETTER ADDED, BEGINNING WITH "A".
- PH – 34.5KV MANHOLES/PULLBOXES
- PP – DC POSITIVE MANHOLES/PULLBOXES
- PN – DC NEGATIVE MANHOLES/PULLBOXES
- PL – AUXILIARY POWER MANHOLES/PULLBOXES
- CC – COMMUNICATION MANHOLES/PULLBOXES
- TC – TRAIN CONTROL/COMMUNICATION MANHOLES/PULLBOXES

CABLE TRAY & BUSWAY DESIGNATION

C CC–101

- INDICATES CTY OR BY NUMBER (e.g. 101)
- PH – 34.5KV
- PP – DC POSITIVE
- PN – DC NEGATIVE
- PL – AUXILIARY POWER
- CC – COMMUNICATIONS
- TC – TRAIN CONTROL
- CTY– CABLE TRAY
- BY – BUSWAY

34.5KV CABLE DESIGNATION

S LC

- LC – LEFT CABLE
- RC – RIGHT CABLE
- A – ALAMEDA LINE
- C – CONTRA COSTA LINE
- R – RICHMOND LINE
- M – MARKET/MISSION LINE
- K – OAKLAND LINE
- L – LIVERMORE LINE
- W – WEST BAY LINE
- Y – SAN FRANCISCO AIRPORT LINE
- S – SOUTH BAY LINE, DESIGNATION ASSIGNED TO COVER WARM SPRINGS/SVRT EXTENSION.

GENERAL CABLE DESIGNATION

CC XXX XXX 01

- CABLE NUMBER
- CABLE DESTINATION
- CABLE ORIGINATION
- PH – 34.5 KV
- PP – DC POSITIVE
- PN – DC NEGATIVE
- PL – AUXILIARY POWER
- CC – COMMUNICATIONS
- TC – TRAIN CONTROL

INTERFACILITY FIBER CABLE DESIGNATION

XXX # #–# X–#

- PATCH PANEL – PATCH POSITION
- SPLICE TRAY – FIBER POSITION
- FIBER NUMBER
- CIRCUIT
  - ATC – AUTOMATIC TRAIN CONTROL
  - M&C – MONITOR AND CONTROL
  - ACP – ACCESS CONTROL
  - CCTV – CLOSED CIRCUIT TELEVISION
  - ETS – EMERGENCY TRIP SYSTEM
  - RZ# – RIDS ZONE
  - UON – UNIFIED OPTICAL NETWORK
  - RAD – RADIO

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BRADLEY A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

SUBMITTED LTK Engineering Services

APPROVED Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY; T·Y·LIN INTERNATIONAL

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
FACILITIES, EQUIPMENT,
RACEWAY AND CABLE DESIGNATIONS

CADD FILENAME C700-S-DB-X020.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. X020 | PAGE NO. 1018

Adam Jun. 20, 2013 – 9:36am C:\projectwise\mbx-sbtroot\dms34735\C700-S-DB-X020.DWG

A	AMPERE
A/D	ANALOG–TO–DIGITAL CONVERTER
AB	ARRESTOR BLOCK
AC	ALTERNATING CURRENT
ACI	AUTOMATIC CALLER IDENTIFICATION
ACK	ACKNOWLEDGE
ACR	AUXILIARY COMM ROOM
ACS	ACCESS CONTROL SYSTEM
ADM	ADD/DROP MULTIPLEXER
AEI	AUTOMATIC ELECTRONIC IDENTIFICATION
AF	AUDIO FREQUENCY
AFC	AUTOMATIC FARE COLLECTION
AFM	ADD FARE MACHINE
AI	ANALOG INPUT
ALCU	AUTOMATIC LEVEL CONTROL UNIT
AM	AMPLITUDE MODULATION
AMP	AMPLIFIER
ANN	ANNUNCIATOR
ANS	AMBIENT NOISE SENSOR
ANT	ANTENNA
AOV	ANGLE OF VIEW
APCO	ASSOCIATED PUBLIC SERVICE COMMUNICATIONS OFFICERS
ATO	AUTOMATIC TRAIN OPERATION
ATC	AUTOMATIC TRAIN CONTROL
ATP	AUTOMATIC TRAIN PROTECTION
ATTS	AUXILIARY TRAIN TRACKING SYSTEM
ATZ	ALL TRAINS BY ZONE
AWG	AMERICAN WIRE GAUGE
BAT	BATTERY
BB	BACK BONE
BBC	BILL–TO–BILL CHANGER
BDA	BI–DIRECTIONAL AMPLIFIER
BER	BIT ERROR RATE
BIT	BINARY DIGIT
BLDG	BUILDING
BLKS	BLOCKS
BLS	BLUE LIGHT STATION
BPD	BART POLICE DEPARTMENT
BPS	BITS PER SECOND
BRKR	BREAKER
BW	BANDWIDTH
C	COMBINER, CONDUCTOR, OR CONDUIT
CA	CABLE
CAB	CABINET
CAT	CATEGORY (AS IN CAT 6 CABLE)
CB	CONVERTER BLOCK
CC	CENTRAL CONTROLLER
CCN	COMMUNICATIONS CABLE NETWORK
CCS	CENTRAL CONTROL SYSTEM
CCTV	CLOSED CIRCUIT TELEVISION
CDB	CENTRAL DISPLAY BOARD
CE	CONCOURSE EAST
CEC	CALIFORNIA ELECTRICAL CODE
CF/DA	CALL FORWARD/DON'T ANSWER (TELEPHONE FEATURE)
CFT	COPPER–FIBER TRANSCEIVER
CH BK	CHANNEL BANK
CHAN	CHANNEL
CKT	CIRCUIT
℄	CENTERLINE
CLR	CLEAR
CN	CONCOURSE NORTH
CND	CONDUIT
CNTL	CONTROL
COAX	COAXIAL CABLE
COL(S)	COLUMN(S)
COMM	COMMUNICATION(S)
COMP	COMPRESSOR
CP	CROSS PASSAGE OR CONTROL PANEL
CPU	CENTRAL PROCESSING UNIT
CPUC	CALIFORNIA PUBLIC UTILITIES COMMISSION
CR	CONTACT RAIL, CARD READER
CRT	CATHODE RAY TUBE
CS	CONTACT SWITCH, CONCOURSE SOUTH
CSU	CHANNEL SERVICE UNIT
CT	COURTESY TELEPHONE
CTC	COMMUNICATIONS TERMINATION CABINET
CTCSS	CONTINUOUS TONE CODED SQUELCH SYSTEM
CTR	COMMUNICATIONS TERMINATION ROOM
CU	COPPER
CW	CONCOURSE WEST
DA	DISTRIBUTION AMPLIFIER
D/A	DIGITAL–TO–ANALOG CONVERTER
D/L	DOWN LINK
DACS	DIGITAL ACCESS AND CROSS CONNECT
DAS	DATA ACQUISITION SYSTEM OR DISTRIBUTED ANTENNA SYSTEM
dB	DECIBEL
DC	DIRECT CURRENT
DCC	DATA COMMUNICATIONS CHANNEL
DCN	DATA COMMUNICATIONS NETWORK
DET	DETAIL OR DETECTOR
DFM/DFE	DISTRICT FURNISHED MATERIAL / EQPT
DI	DIGITAL INPUT
DIA	DIAMETER
DID	DIRECT INWARD DIALING
DMOD	DEMODULATE
DMP	DESIGNATED MATCHING PRODUCT
DO	DIGITAL OUTPUT
DOD	DIRECT OUTWARD DIALING
DS	DESK SET UNIT
DS1	DIGITAL SIGNAL LEVEL 1
DS0	DIGITAL SIGNAL (LEVEL 0)
DSU	DESTINATION SIGN UNIT OR DATA SERVICE UNIT
DSX	DIGITAL CROSS CONNECT
DTMF	DUAL TONE MULTI–FREQUENCY
DWG	DRAWING
EA	EACH
EBO	EMERGENCY BARRIER OVERRIDE
EBP	EMERGENCY BACKUP PANEL
ECB	EMERGENCY CALL BOX
EERMS	ELEVATOR AND ESCALATOR REMOTE MONITORING SYSTEM
EIO	ETHERNET INPUT OUTPUT
EIP	ELEVATOR INTERFACE PANEL
EL	ELECTRIC LOCK
ELEC	ELECTRIC
ELEV	ELEVATOR OR ELEVATION
EM	EMERGENCY
ETP	EMERGENCY TRIP PANEL
EMER	EMERGENCY
EMI	ELECTROMAGNETIC INTERFERENCE
EMP	EMERGENCY MANAGEMENT PANEL
ENT	ENTRANCE
EOL	END OF LINE
EQPT	EQUIPMENT
EQUIP	EQUIPMENT
ES	END SYSTEM
ESC	ESCALATOR
ET	EMERGENCY TELEPHONE OR EMERGENCY TRIP
ETS	EMERGENCY TRIP STATION
EXIST,<E>(E)	EXISTING
EXP	EXPANSION
EXT	EXIT
FACP	FIRE ALARM CONTROL PANEL
FAWS	FIRE ALARM WORK STATION
FCP	FIRE CONTROL PANEL
FDCP	FIRE AND DAMPER CONTROL PANEL
FDDI	FIBER DISTRIBUTED DATA INTERFACE
FDP	FIBER DISTRIBUTION PANEL
FE	FIELD EQUIPMENT
FG	FARE GATE
FGA	FARE GATE ARRAY
FGC	FARE GATE CABINET
FHC	FIRE HOSE CABINET
FITT	FURNISHED, INSTALLED, TESTED AND TERMINATED
FIV	FIRE ISOLATION VALVE
FLR	FLOOR
FM	FREQUENCY MODULATION
FO	FIBER OPTIC
FOM	FIBER OPTIC MODEM
FOT	FIBER OPTIC TERMINAL
FO–TN	FIBER OPTIC TUNNEL INTERFACE
FR GRD	FRAME GROUND
FRRC	FIRE–RADIO REMOTE CONTROL UNIT
FSK	FREQUENCY SHIFT KEYING
FT	FIRE TELEPHONE
FTCOMPUTER	FAULT TOLERANT COMPUTER
FXO	FOREIGN EXCHANGE, OFFICE END
FXS	FOREIGN EXCHANGE. STATION END
GA	GAUGE
GB	GAP BREAKER,GROUND BUS, GIGABIT
GBS	GAP BREAKER STATION, GIGABITS PER SECOND
GFCI	GROUND FAULT CURRENT INTERRUPTER
GHz	GIGAHERTZ
GIGA	ONE BILLION
GND, GRD	GROUND
GPS	GLOBAL POSITIONING SATELLITE
GRS	GALVANIZED RIGID STEEL
HF	HIGH FREQUENCY
HSG	HOUSING
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
HW	HARD WIRED
Hz	HERTZ (CYCLES PER SECOND)
I/F	INTERFACE
I/O	INPUT/OUTPUT
IC	INTERCOM
ICS	INTEGRATED CONTROL SYSTEM
ICS–V	INTEGRATED CONTROL SYSTEM – VENTILATION
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
ILD	INJECTION LASER DIODE
IMC	INTEGRATED MULTISITE CONTROLLER
IP	INTERNET PROTOCOL
IPPBX	INTERNET PROTOCOL PRIVATE BRANCH EXCHANGE
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
ISU	INTERFACE AND SIGNALING UNIT
JCT	JUNCTION
JKFLD	JACKFIELD
K	KILO
Kbps, Kb/s	KILOBITS PER SECONDS
kHz	KILOHERTZ
km	KILOMETER
kV	KILO VOLT (ONE THOUSAND VOLTS)
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
LCN	LOCAL COMMUNICATIONS NETWORK
LED	LIGHT EMITTING DIODE
LLDL	LOW LEVEL DATA LINK
LMA	LAKE MERRITT ADMINISTRATION BUILDING
LTE	LINE TERMINATING EQUIPMENT
LVL	LEVEL
M+C	MONITOR AND CONTROL
mA	MILLIAMPERE
MAINT	MAINTENANCE
MAP	MIMIC ANNUNCIATOR PANEL
MAX	MAXIMUM
Mbps, Mb/s	MEGA BIT PER SECOND
MC	MULTI–COUPLER, MEDIA CONVERTER, MAGNETIC CONTACT
MCR	MINI CARRIER REMOTE
MDF	MAIN DISTRIBUTION FRAME
MEGA	ONE MILLION
MHz	MEGAHERTZ
MIN	MINIMUM
mm	MILLIMETER
MM	MULTI–MODE (FIBER CABLE)
MOD	MODULATE
MOW	MAINTENANCE–OF–WAY
MP	MILEPOST
MPNL	MAIN PANEL
MS	MOTOR STARTER
MSG	MESSAGE
MSK	MINIMUM SHIFT KEY
MSM	MULTILOOP SUPERVISORY MODULE
MTU	MASTER TERMINAL UNIT
MUX	MULTIPLEX
<N> (N)	NEW
<NIC>	NOT IN CONTRACT
N	NORTH
NA	NOT APPLICABLE
NB	NORTH BOUND
NEC	NATIONAL ELECTRIC CODE
NEG	NEGATIVE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
nm	NANOMETER
NMS	NETWORK MANAGEMENT SYSTEM
NO.,#	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NXTGEN	ARCHITECTURE OF BART'S NEXT GENERATION EQUIPMENT
OADM	OPTICAL ADD/DROP MULTIPLEXER
OC	ON CENTER, OPTICAL CARRIER
OC1	51.84 Mb/s OPTICAL CARRIER LEVEL 1
OC3	155.52 Mb/s OPTICAL CARRIER LEVEL 3
OC48	2.48 Gb/s OPTICAL CARRIER LEVEL 48
OCC	OPERATIONS CONTROL CENTER
OD	OUTSIDE DIAMETER
OFR	ON–FREQUENCY REPEATER
OPT	OPTION
OPX	OFF–PREMISE EXTENSION
OS	OPERATING SYSTEM
OSI	OPEN SYSTEMS INTERCONNECTION
OSP	OUTSIDE PLANT
OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
P&S	POWER AND SUPPORT
P&W	POWER AND WAY
P.B., PB	PULLBOX OR PUSH BUTTON
P/O	PART OF
PA	PUBLIC ADDRESS
PABX,PBX.PX	PRIVATE AUTOMATIC BRANCH EXCHANGE
PAC	PROGRAMMABLE AUTOMATION CONTROLLER
PB	PUSH BUTTON
PC	PERSONAL COMPUTER
PCM	PULSE CODE MODULATION
PCR	PORTAL COMMUNICATIONS ROOM
PDU	PROTOCOL DATA UNIT
PE	PLATFORM EAST
PIDS	PORTAL INTRUSION DETECTION SYSTEM
PLC	PROGRAMMABLE LOGIC CONTROLLER
PN	PLATFORM NORTH
PNL	PANEL
POS	POSITIVE OR POSITION
PPTIM	PLC PANEL TERMINAL INTERFACE MODULE
PR	PAIR
PS	PLATFORM SOUTH
ps	PICO SECOND
PS/L	PROTECTOR SHELF/L BLOCK
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PTS	PLATFORM TRIP STATION
PTT	PUSH TO TALK
PTZ	PAN,TILT AND ZOOM
PW	PLATFORM WEST
PWR	POWER
PZF	POLICE ZONE FACILITY
QTY	QUANTITY
R	RING OR ROUTER
R NO.	RACK NUMBER
R1	RING 1
RCV	RECEIVE
RDC	RADIO DISTRIBUTION CABINET
REF	REFERENCE
REQ., REQ'D	REQUIRED
REV	REVISION
RF	RADIO FREQUENCY
RGB	RED, GREEN. BLUE VIDEO COLORS
RIDS	RAILROAD INTRUSION DETECTION SYSTEM
RIO	REMOTE INPUT/OUTPUT
RM	ROOM
ROADM	RECONFIGURABLE OPTICAL ADD/DROP MULTIPLEXER
RPTR	REPEATER
RTU	REMOTE TERMINAL UNIT
RX, RCV (R)	RECEIVE (R)
S, SO.	SOUTH
SAB	STATION AGENTS BOOTH
SAT	STATION AGENT TERMINAL
SB	SOUTH BOUND
SBC	SBC COMMUNICATIONS, INC.
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SCN	SYSTEMWDE CABLE NETWORK
SEC	SECOND
SHT	SHEET
SM	SINGLE MODE (FIBER CABLE)
SNT	STATION NETWORK TERMINAL
SONET	SYNCHRONOUS OPTICAL NETWORK
SP	SPLICE OR SPARE
SPK, SK	SPEAKER
SPNL	SUBPANEL
SRST	SURVIVABLE REMOTE SITE TELEPHONY
SS	SUBSTATION
STA	STATION
STBY	STANDBY
STD	STANDARD
STR	STRANDED OR STRUCTURE
STS	SYNCHRONOUS TRANSPORT SIGNAL
SUPV	SUPERVISOR'S
SVC	SERVICE
SWGR	SWITCH GEAR
SWS	SWITCHING STATION
T/ET	PABX TELEPHONE AND EMERGENCY TELEPHONE
T/C, T.C.	TRAIN CONTROL
T1	T1 CARRIER TRANSMISSION FORMAT
TA	TRUNK AMPLIFIER
TB	TERMINAL BOX, TERMINAL BLOCKS
TBD	TO BE DETERMINED
TBL	TROUBLE
TC	TERMINAL CABINET
TCH	TRAIN CONTROL HOUSE
TCP	TRANSPORT CONTROL PROTOCOL
TCR	TRAIN CONTROL ROOM
TDD	TELECOMMUNICATIONS DEVICE FOR THE DEAF
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TELECOM	TELECOMMUNICATIONS
TEMP	TEMPERATURE
TERM	TERMINAL
TIM	TRAIN INFORMATION MONITOR
TP	TWISTED PAIR
TPSS	TRACTION POWER SUBSTATION
TRACS	TRUNKED RADIO AND COMMUNICATIONS SYSTEMS
TR–FO	TRUNKED RADIO FIBER OPTIC INTERFACE
TSP	TWISTED SHIELDED PAIR
TT	TRANSFER TRIP
TVM	TICKET VENDING MACHINE
TWR	TOWER
TX, XMT, TR	TRANSMIT
TYP	TYPICAL
U/L	UP LINK
UAN	UNIFIED ADMINISTRATION NETWORK
UCD	UNDER CAR DELUGE
UHF	ULTRA HIGH FREQUENCY
UON	UNIFIED OPTICAL NETWORK
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR CABLE
UV	ULTRA VIOLET
V	VOLT
VAC	VOLTS ALTERNATING CURRENT
VC	VIDEO CARD
VCP	VENTILATION CONTROL PANEL
VDA	VIDEO DISTRIBUTION AMPLIFIER
VDC	VOLTS DIRECT CURRENT
VF	VOICE FREQUENCY
VHF	VERY HIGH FREQUENCY
VMS	VISUAL MESSAGING SYSTEM
VOX	VOICE OPERATED TRANSMITTER
VR	VIDEO REPEATER
W	WATT
W/	WITH
W/O	WITHOUT
WAO, WO	WORK AREA OUTLET
WDM	WAVE DIVISION MULTIPLEXER
WG	WAVEGUIDE
WW	WIREWAY

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN K. MENDEZ LORA — 51963 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED _____

Lockwood, Andrews & Newnam, Inc. — A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED _____

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

MILPITAS STATION
COMMUNICATIONS SYSTEMS
ABBREVIATIONS

CADD FILENAME	C700–S–DB–B001.dwg
SIZE	D
SCALE	NONE
CONTRACT NO.	C700
REV.	0
AREA CODE	DB
SHEET NO.	B001
PAGE NO.	1019

Jun 20, 2013 - 1:39pm C:\projectwise\mbx-ashrook\dms34735\C700-S-DB-B001.DWG
Adam

SCHEMATIC/BLOCK DIAGRAM SYMBOLS

SYMBOL	DESCRIPTION
	CIRCUIT BREAKER
	TRANSFORMER
	GROUND
R	BASE OR REPEATER STATION
	JUMPER
	AMPLIFIER
	RECTIFIER DIODE
	ZENER DIODE
OR	RELAY COIL
	NORMALLY OPEN RELAY CONTACT
	NORMALLY CLOSED RELAY CONTACT
	FUSE
M	MICROPHONE (TALK–THRU AT AGENT'S BOOTH)
OR	SPEAKER
R M	HEADSET OR HANDSET
	FOOTSWITCH
	CROSS–CONNECT
	CABLE PAIR PROTECTOR
	CABLE SPLICE
	CABLE SPLICE WITH CONECTORS
	BI–DIRECTIONAL REPEATER/AMPLIFIER
	JACKFIELD
OR	MALE & FEMALE CONNECTORS OR PLUG & JACK
	WIRE TERMINATION

SYMBOL	DESCRIPTION
A	INDICATING LAMP — LAMP COLOR: A=AMBER, B= BLUE, G= GREEN, R= RED, W= WHITE
	DISPLAY MONITOR
	TELEPHONE JACK
	LED
	BATTERY
	SPST SWITCH
	SPDT SWITCH
	JUNCTION OF CONDUCTORS CONNECTED
	JUNCTION OF CONDUCTORS NOT CONNECTED
	VARISTOR
	PUSH BUTTON
C	TELEPHONE SET — DESIGNATOR: C=COURTESY, E=EMERGENCY, F=FIRE, ECB=EM CALL BOX, PX=PABX, PY=PAY (PUBLIC)
	TWO WAY SPLITTER
	COMBINER
CBC	CROSSBAND COUPLER
	DIRECTIONAL COUPLER

SYMBOL	DESCRIPTION
	ARRESTER, GAS TUBE
	INTERCOM STATION WITH PUSH–TO–TALK
	INSULATED COPPER CABLE
	FIBER OPTIC CABLE
	COAXIAL CABLE
	RADIATING COAXIAL CABLE
	UNSHIELDED TWISTED PAIR CABLE
	SHIELDED TWISTED PAIR CABLE
	SHIELDED CABLE
50	50 OHM TERMINATION RESISTOR
	TALK–OUT
	TALK–IN
	PARABOLIC ANTENNA
	ANTENNA
	RADIO WAVES
	DIGITAL MICROWAVE TERMINAL
HSMO	HIGH STABILITY MASTER OSCILLATOR
PS 50/50	POWER SPLITTER (50/50 RATIO)
	BROADBAND DIRECTIONAL ANTENNA

Santa Clara Valley Transportation Authority

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LAYOUT SYMBOLS

TELEPHONE SYSTEM DEVICES

SYMBOL	DESCRIPTION
	IPPBX SWITCHBOARD
2 *	IPPBX TELEPHONE * W/IBM TYPE 2 JACK
3	HANDS FREE COURTESY TELEPHONE
4	EMERGENCY TELEPHONE
5	MASTER STATION INTERCOMM. TELEPHONE
6	STATION INTERCOMM. TELEPHONE
7	COURTESY TELEPHONE
8	FIRE TELEPHONE
H	HOTLINE TELEPHONE
E	ECB – EMERGENCY CALL BOX
*	PUBLIC TELEPHONE * W/TDD
	PUBLIC TELEPHONE (FUTURE)
	FLOOR OUTLET FOR TELEPHONE
ET	ET – EMERGENCY TELEPHONE SHELF PABX – TELEPHONE SWITCH PCM – PULSE CODE MODULATOR

VISUAL COMMUNICATION SYSTEM DEVICES

SYMBOL	DESCRIPTION
TV	CCTV CAMERA OUTLET
	CCTV CAMERA WITH ENCLOSURE AND PTZ
	PENDANT MOUNTED CCTV CAMERA WITH ENCLOSURE AND PTZ
	CCTV CAMERA WITH ENCLOSURE
	PENDANT MOUNTED CCTV CAMERA WITH ENCLOSURE
*	NON–BFS CCTV CAMERA
DSU	TRAIN DESTINATION SIGN UNIT
VDA	RGB VIDEO AMPLIFIER
PMS	PROGRAMMABLE MESSAGE SIGN

SOUND SYSTEM DEVICES

SYMBOL	DESCRIPTION
1	AMPLIFIER
2	MICROPHONE
3	INTERIOR SPEAKER
3 *	INTERIOR SPEAKER W/ VOLUME CONTROL
4	EXTERIOR SPEAKER
4	PENDANT MOUNTED SPEAKER
5	AMBIENT SOUND MONITOR
	CEILING MOUNTED SPEAKER
	PENDANT MOUNTED HORN SPEAKER
	PA SPEAKER HORN
6	INTERCOM

MISC SIGNAL SYSTEM DEVICES

SYMBOL	DESCRIPTION
1	BUZZER
2	BELL
3	PUSHBUTTON
4	ANNUNCIATOR
5	DOOR OPENER
6	ALARM TRIP
	DISCONNECT SWITCH
	CONDUIT, EMBEDDED OR CONCEALED
	CONDUIT EXPOSED
	CONDUIT, TURNED UP
	CONDUIT, TURNED DOWN
	CONDUIT, TERMINATED & CAPPED
	"LB" CONDUIT BODY
	"T" CONDUIT BODY
J OR JB	JUNCTION BOX
PB	PULL BOX
TC	TERMINAL CABINET
DAS	DISTRIBUTED ANTENNA SYSTEM
	TELEPHONE BACKBOARD
	PX AND ET IN LOCKED BOX
R	RUNAWAY TRAIN ALARM AND FLASHING LIGHT
	AEI LOCATION
S	SPLICE/TERMINATION BOX
2	WORK AREA OUTLET/SINGLE GANG DOUBLE OUTLET
	WORK AREA OUTLET/SINGLE GANG SINGLE OUTLET

TRAIN INFORMATION MONITORS (TIM)

SYMBOL	DESCRIPTION
	TIM FOR PATRON MOUNTED IN SPARE TVM CUBICLE OR IN CAVITY UNDER ESCALATOR
	TIM AT STATION AGENT'S BOOTH
R	ROUTER
XT	X–TERMINAL

ACCESS CONTROL SYSTEM (ACS)

SYMBOL	DESCRIPTION
MC	MAGNETIC CONTACT
CR	CARD READER
EL	ELECTRIC LOCK

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

Skanska Shimmick Herzog — 1436 California Circle, Milpitas, California 95035 — A Joint Venture

LTK Engineering Services — SUBMITTED

Lockwood, Andrews & Newnam, Inc. — T·Y·LIN INTERNATIONAL — APPROVED

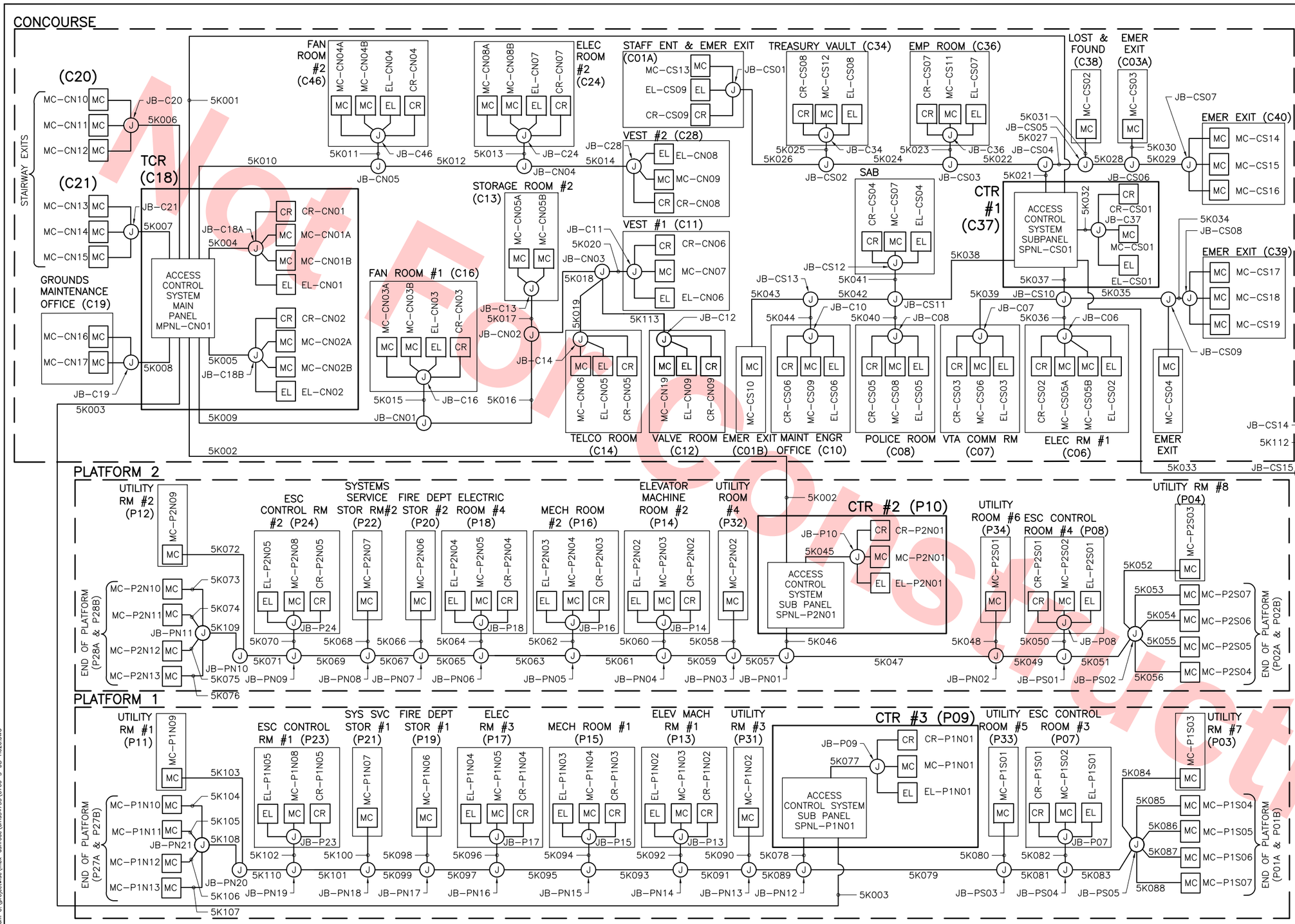
VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATIONS SYSTEMS
SYMBOLS

CADD FILENAME C700–S–DB–B002.dwg
SIZE D — SCALE NONE
CONTRACT NO. C700 — REV. 0
AREA CODE DB — SHEET NO. B002 — PAGE NO. 1020

Adam Jun 20, 2013 – 1:39pm C:\projectwise\mbx–ashrode\dms34735\C700–S–DB–B002.DWG



NOTES:

1. CONDUITS ARE DIAGRAMMATICALLY SHOWN, REFER TO ELECTRICAL PLAN & DETAIL SHEETS FOR FURTHER ROUTING THROUGH MAJOR STRUCTURES. CONDUITS SHALL NOT BE ROUTED/INSTALLED AT LOCATIONS WHERE THEY INTERFERE WITH THE REMOVAL OF EQUIPMENT FOR MAINTENANCE, REPAIR OR CLEANUP NOR INFRINGE UPON HEADROOM IN PASSAGES.
2. CONDUITS AND FITTINGS SHALL BE GALVANIZED RIGID STEEL (GRS). GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) MAY BE RUN EXPOSED ABOVE 8 FEET AND CONCEALED IN WALLS AND CEILINGS IN OFFICES.
3. ACS MAIN PANEL SHALL BE CONNECTED TO THE SYSTEMWIDE ACS VIA BARTNET.
4. COMMUNICATION EQUIPMENT LOCATED AT THE VTA BUS OPERATOR FACILITY, BICYCLE STORAGE FACILITY AND LRT POC ARE NOT SHOWN IN THIS RISER DIAGRAM.

LEGEND:

CR-P1S01 CARD READER NO. 1 LOCATED AT PLATFORM NO. 1 SOUTH

MC-CN04 MAGNETIC CONTACT NO. 4 LOCATED AT CONCOURSE LEVEL NORTH

Santa Clara Valley Transportation Authority

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Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED LTK Engineering Services

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

APPROVED Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY · T·Y·LIN INTERNATIONAL

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ACCESS CONTROL SYSTEM
RISER DIAGRAM

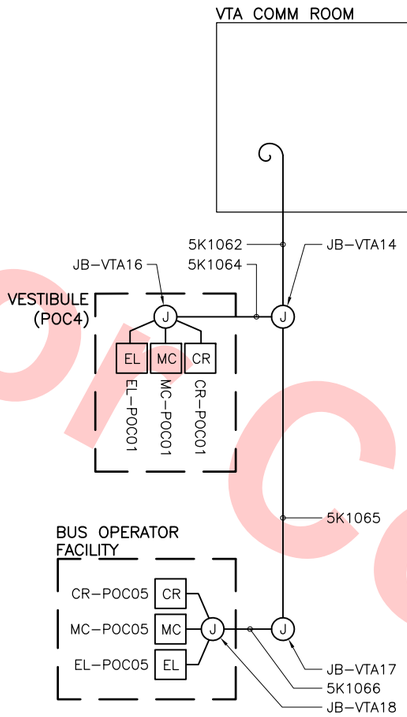
CADD FILENAME		
C700-S-DB-H020.dwg		
SIZE D	SCALE NONE	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. H020	PAGE NO. 1021

Adam Jun 20, 2013 - 9:29am C:\projectwise\mbx-ashrodk\dms34735\C700-S-DB-H020.DWG

Not For Construction

NOTES:

1. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL PLAN AND DETAIL SHEETS FOR ROUTING DETAIL.
2. 50 FEET OF COIL FOR EACH CABLE (FIBER AND COPPER) TO BE PROVIDED IN VTA COMM ROOM.



Santa Clara Valley Transportation Authority

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By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BERNARD A. MENDEZ LORA E19839 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

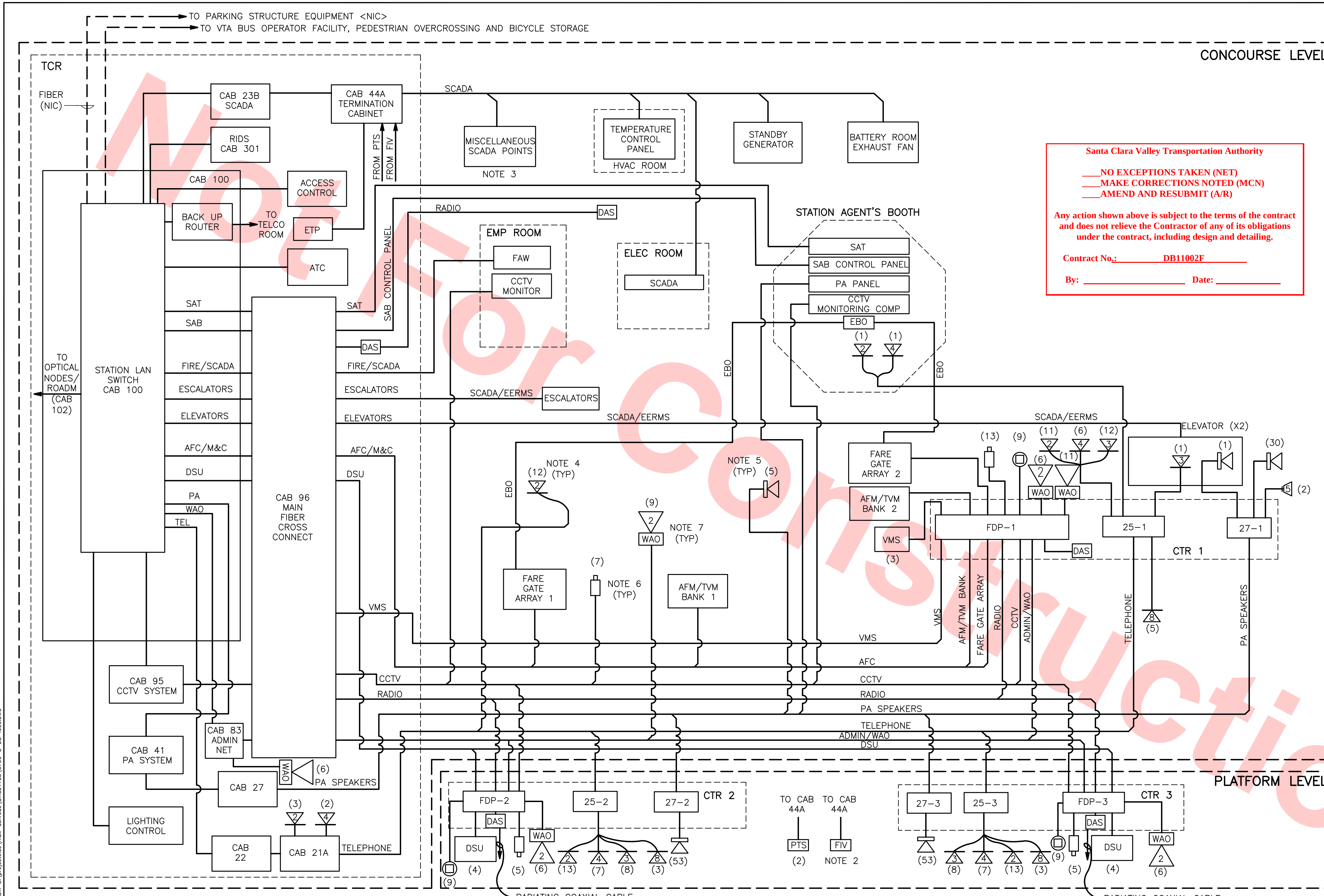
Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
VTA ACCESS CONTROL SYSTEM
RISER DIAGRAM

CADD FILENAME C700–S–DB–H021.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. H021 | PAGE NO. 1022

Adam Jun 27, 2013 – 12:15pm C:\projectwise\nbx-ashrode\dms34735\C700-S-DB-H021.dwg



TO PARKING STRUCTURE EQUIPMENT <NIC>
TO VTA BUS OPERATOR FACILITY, PEDESTRIAN OVERCROSSING AND BICYCLE STORAGE
CONCOURSE LEVEL
TCR
FIBER (NIC)
CAB 23B SCADA
CAB 44A TERMINATION CABINET
SCADA
RIDS CAB 301
CAB 100
ACCESS CONTROL
BACK UP ROUTER
TO TELCO ROOM
ETP
ATC
FROM PTS
FROM FIV
MISCELLANEOUS SCADA POINTS
NOTE 3
TEMPERATURE CONTROL PANEL
HVAC ROOM
STANDBY GENERATOR
BATTERY ROOM EXHAUST FAN
RADIO
DAS
SAB CONTROL PANEL
EMP ROOM
FAW
CCTV MONITOR
ELEC ROOM
SCADA
STATION AGENT'S BOOTH
SAT
SAB CONTROL PANEL
PA PANEL
CCTV MONITORING COMP
EBO
TO OPTICAL NODES/ ROADM (CAB 102)
STATION LAN SWITCH CAB 100
SAT
SAB
FIRE/SCADA
ESCALATORS
ELEVATORS
AFC/M&C
DSU
PA
WAO
TEL
CAB 96 MAIN FIBER CROSS CONNECT
SCADA/EERMS
ESCALATORS
ELEVATOR (X2)
FARE GATE ARRAY 2
AFM/TVM BANK 2
VMS
FDP-1
25-1
27-1
CTR 1
NOTE 4 (TYP)
NOTE 5 (TYP)
NOTE 6 (TYP)
NOTE 7 (TYP)
FARE GATE ARRAY 1
AFM/TVM BANK 1
VMS
AFC
CCTV
RADIO
PA SPEAKERS
TELEPHONE
ADMIN/WAO
DSU
AFM/TVM BANK
FARE GATE ARRAY
ADMIN/WAO
PA SPEAKERS
CAB 95 CCTV SYSTEM
CAB 41 PA SYSTEM
CAB 83 ADMIN NET
CAB 27
LIGHTING CONTROL
CAB 22
CAB 21A
TELEPHONE
PA SPEAKERS
PLATFORM LEVEL
FDP-2
25-2
27-2
CTR 2
TO CAB 44A
PTS
FIV
NOTE 2
27-3
25-3
FDP-3
CTR 3
DSU
RADIATING COAXIAL CABLE

Santa Clara Valley Transportation Authority

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Contract No.: DB11002F

By: ____________ Date: ____________

Not For Construction

NOTES:

1. QUANTITIES SHOWN IN PARENTHESIS REPRESENTS ONLY THE ORDER OF MAGNITUDE. FINAL QUANTITIES TO BE DETERMINED DURING FINAL DESIGN.
2. WAYSIDE EQUIPMENT IS NOT SHOWN.
3. SEE DRAWINGS IN DESIGN UNIT 031: SC-H125, SC-H501, SC-H503, AND SC-H507 FOR DETAILS.
4. TELEPHONE QUANTITIES AND ORIGINATION SHOWN. REFER TO DRAWINGS DB-O020 AND DB-O021 FOR TELEPHONE LOCATIONS AND RISER DIAGRAMS.
5. PA SPEAKER QUANTITIES AND ORIGINATION SHOWN. REFER TO DRAWINGS DB-N020, N021 AND DB-N022 FOR SPEAKER LOCATIONS AND RISER DIAGRAMS.
6. CCTV QUANTITIES AND ORIGINATION SHOWN. REFER TO DRAWINGS DB-Q020 AND DB-Q021 FOR CCTV LOCATIONS AND RISER DIAGRAMS.
7. WAO QUANTITIES AND ORIGINATION SHOWN. REFER TO DRAWINGS DB-O020 & DB-O021 FOR WAO LOCATIONS AND RISER DIAGRAMS.

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

Skanska Shimmick Herzog — 1436 California Circle, Milpitas, California 95035 — A Joint Venture

LTK Engineering Services — SUBMITTED

Lockwood, Andrews & Newnam, Inc. — T·Y·LIN INTERNATIONAL — APPROVED

VTA BART SILICON VALLEY — BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION

INTERFACE/INTEGRATION
BLOCK DIAGRAM

CADD FILENAME C700-S-DB-I606.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. I606 | PAGE NO. 1023

Adam Jun 20, 2013 - 9:35am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-I606.DWG

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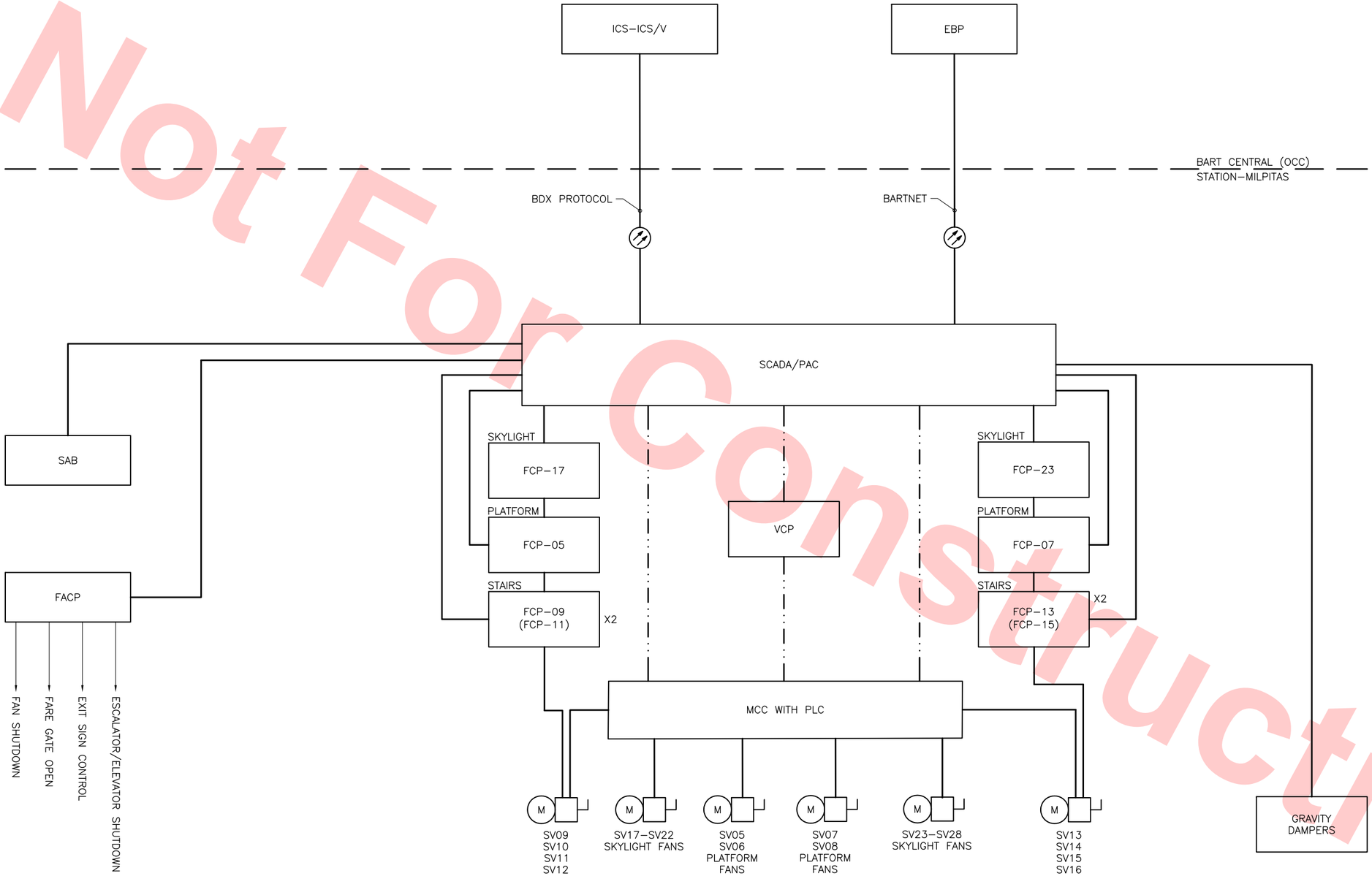

NOTES:

1. EACH FAN STARTER HAS A LOCAL DISCONNECT SWITCH AND A STARTER LOCATED AT THE MOTOR CONTROL CENTER (MCC). EACH GROUPING OF FANS HAVE A LOCAL FAN CONTROL PANEL(FCP) WITH LOCAL/REMOTE SWITCHES (L/R), START/STOP PUSHBUTTONS AND STATUS INDICATING PILOT LIGHTS. THE FCP'S WILL MONITOR THE POSITION OF THE FAN'S LOCAL DISCONNECT SWITCH (WHETHER IN THE OPEN OR CLOSED POSITION), WHICH WILL ALSO BE MONITORED BACK AT BART CENTRAL THROUGH THE STATION PAC. UNDER NORMAL OPERATIONS, THE FAN LOCAL CONTROL PANEL L/R SWITCHES WILL BE IN THE REMOTE POSITION.
2. SMOKE EVACUATION SYSTEM SHALL BE MONITORED FROM THE STATION SCADA/PAC. IN AN EVENT, A SIGNAL WILL BE TRANSMITTED FROM THE FACP TO THE SCADA/PAC TO BART CENTRAL. BART CENTRAL WILL INITIATE A SMOKE EVAC START SIGNAL THAT WILL BE TRANSMITTED BACK THROUGH THE STATION PAC TO THE PLC LOCATED AT THE MOTOR CONTROL CENTER (MCC). THE MCC PLC WILL BE PROGRAMMED TO START THE FAN EVACUATION SEQUENCE OF OPERATION – REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR FURTHER START SEQUENCE.
3. SHOULD A LOSS IN COMMUNICATION BETWEEN BART CENTRAL AND THE STATION BE LOST, THEN CONTROL OF THE SYSTEM WILL BE THROUGH THE STATION VENTILATION CONTROL PANEL (VCP).
4. STATUS OF FAN OPERATION FROM THE MCC/PLC WILL BE TRANSMITTED BACK TO BART CENTRAL (INCLUDING ANY FAULTS).
5. ROUTINE EXERCISING OF THE FANS MAY BE INITIATED LOCALLY AT THE STATION OR REMOTELY AT BART CENTRAL.
6. ANY MAINTENANCE REQUIRED OF THE FANS, WILL BE LOCALLY AT THE STATION BY PLACING THE L/R SWITCH FOR THE FAN IN THE LOCAL POSITION AND OPENING THE DISCONNECT SWITCH. BART CENTRAL WILL BE ABLE TO MONITOR THE POSITIONS OF THE L/R AND THE DISCONNECT SWITCH AND BE AWARE OF THE FAN MOTOR "OUT OF SERVICE".

FIBER
COPPER
ETHERNET

Santa Clara Valley Transportation Authority

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0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY B. MENDEZ LORA
DRAWN BY A. SHRODE
CHECKED BY M. GOLUCKI
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

SUBMITTED LTK Engineering Services

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
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APPROVED Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY — T·Y·LIN INTERNATIONAL

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
EMERGENCY VENTILATION SYSTEM
LOGIC DIAGRAM

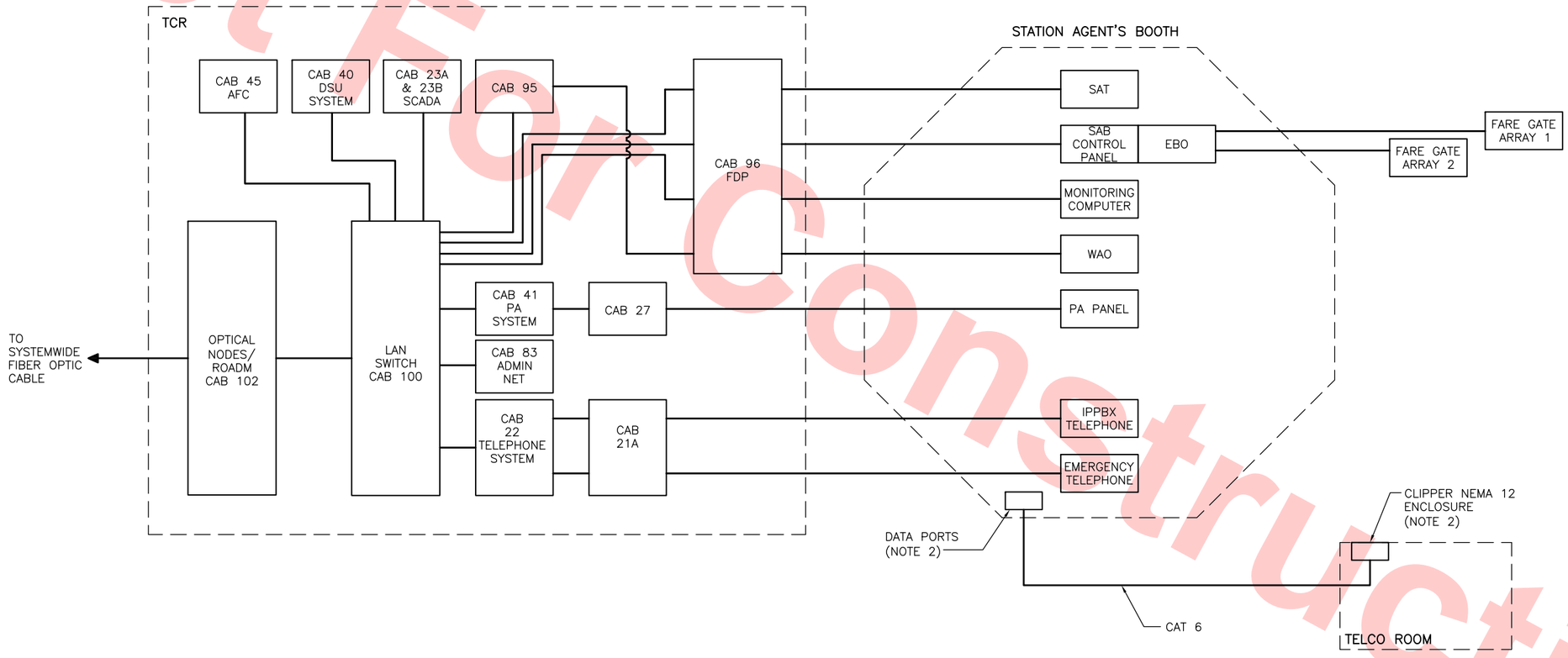
CADD FILENAME C700–S–DB–I607.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. I607 | PAGE NO. 1024

Adam Jun 20, 2013 – 9:35am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-I607.DWG

Not For Construction

NOTES:

1. NOT ALL EQUIPMENT SHOWN INSIDE THE STATION AGENT'S BOOTH.
2. SEE TECHNICAL SPECIFICATION 345011 FOR REQUIREMENTS TO SUPPORT CLIPPER HAND-HELD CARD READER.



Santa Clara Valley Transportation Authority

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0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BRENT A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

SUBMITTED: Skanska Shimmick Herzog — 1436 California Circle, Milpitas, California 95035 — A Joint Venture
LTK Engineering Services
Lockwood, Andrews & Newnam, Inc. — A LEO A DALY COMPANY — T·Y·LIN INTERNATIONAL
APPROVED

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023
MILPITAS STATION

STATION AGENT'S BOOTH BLOCK DIAGRAM

CADD FILENAME C700-S-DB-I622.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. I622 | PAGE NO. 1025

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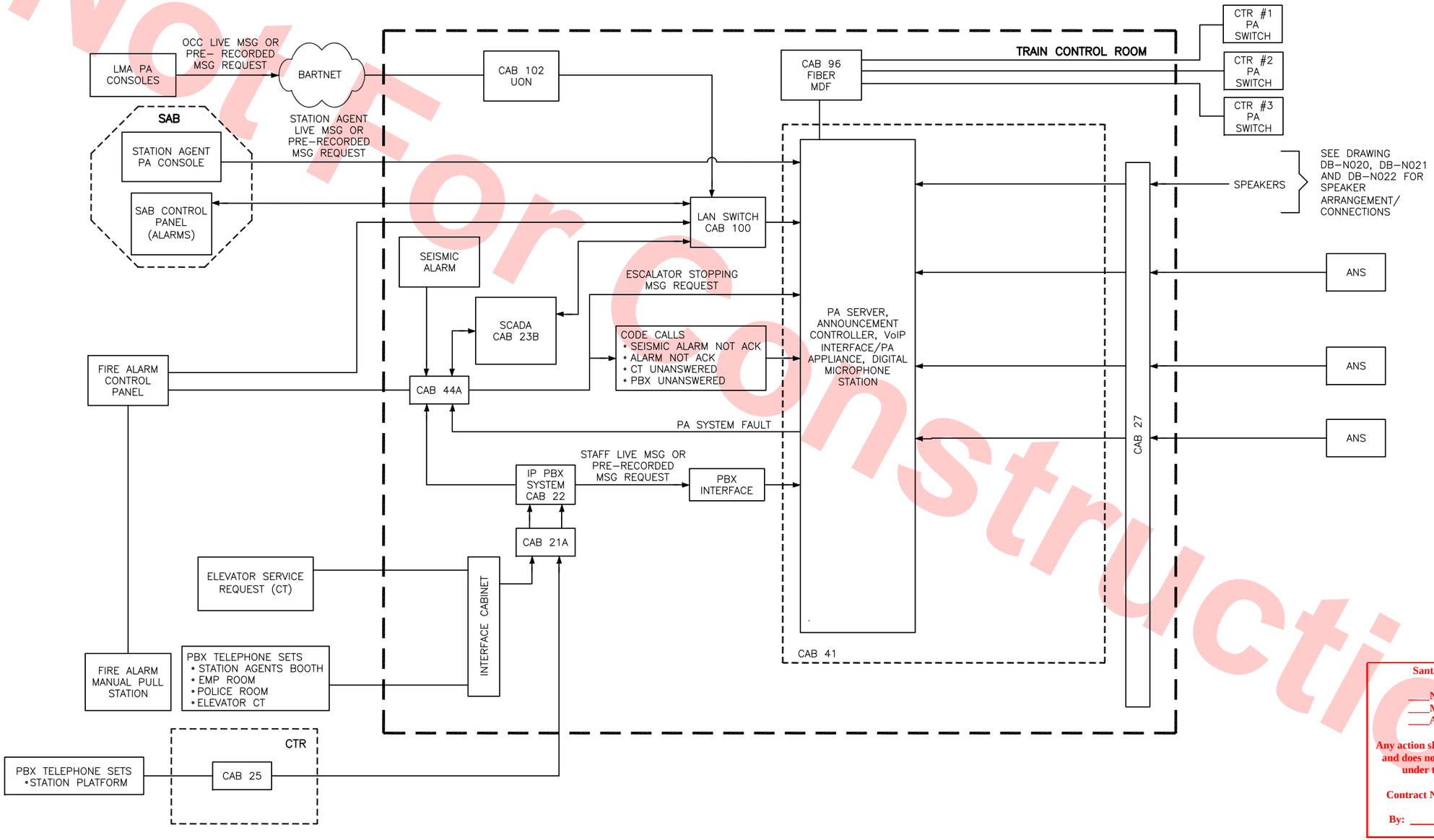
Not for Construction



Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA No. E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
LTK Engineering Services
Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PUBLIC ADDRESS SYSTEM
STATION BLOCK DIAGRAM

CADD FILENAME C700–S–DB–N005.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. N005 | PAGE NO. 1026

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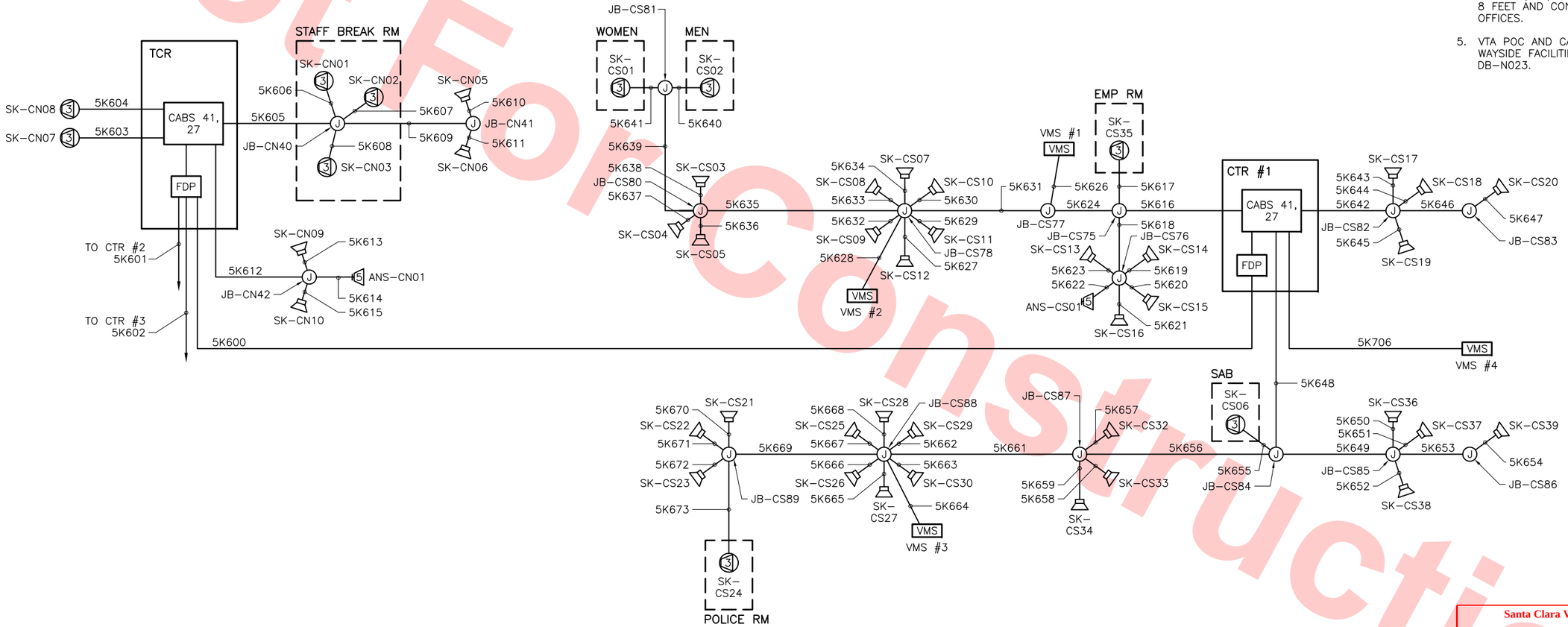
Adam



NOTES:

1. SPEAKER TYPES WILL BE DETERMINED DURING FINAL DESIGN AND TESTING ANALYSIS.
2. ALL CABLES FROM SPEAKERS TO THE PA SYSTEM EQUIPMENT IN THE TCR AND CTRS; AND ALL CABLES BETWEEN TCR AND CTRS, WILL BE FURNISHED, INSTALLED, TERMINATED, AND TESTED.
3. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL PLAN AND DETAIL SHEETS FOR ROUTING THROUGH STRUCTURES. CONDUITS WILL NOT BE ROUTED/INSTALLED AT LOCATIONS WHERE THEY INTERFERE WITH THE REMOVAL OF EQUIPMENT FOR MAINTENANCE, REPAIR,OR CLEANUP; NOR INFRINGE UPON HEADROOM IN PASSAGES.
4. CONDUITS AND FITTINGS WILL BE GALVANIZED RIGID STEEL (GRS). GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) MAY BE RUN EXPOSED ABOVE 8 FEET AND CONCEALED IN WALLS AND CEILINGS IN OFFICES.
5. VTA POC AND CAMPUS AREA DEVICES AND ROUTING TO WAYSIDE FACILITIES NOT SHOWN. SEE DRAWING DB-N023.

Not For Construction

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEATRIZ A. MENDEZ LORA 19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T-Y-LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PUBLIC ADDRESS RISER DIAGRAM
CONCOURSE LEVEL

CADD FILENAME C700-S-DB-N020.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. N020 | PAGE NO. 1027

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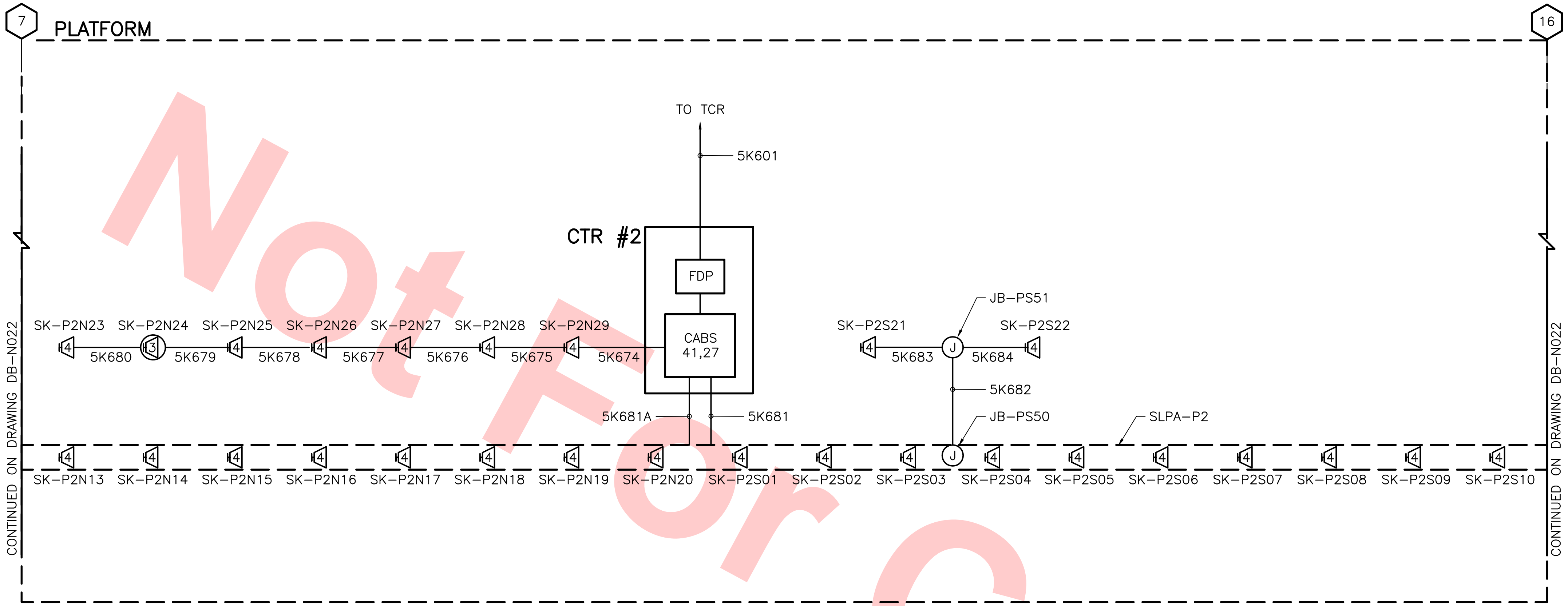
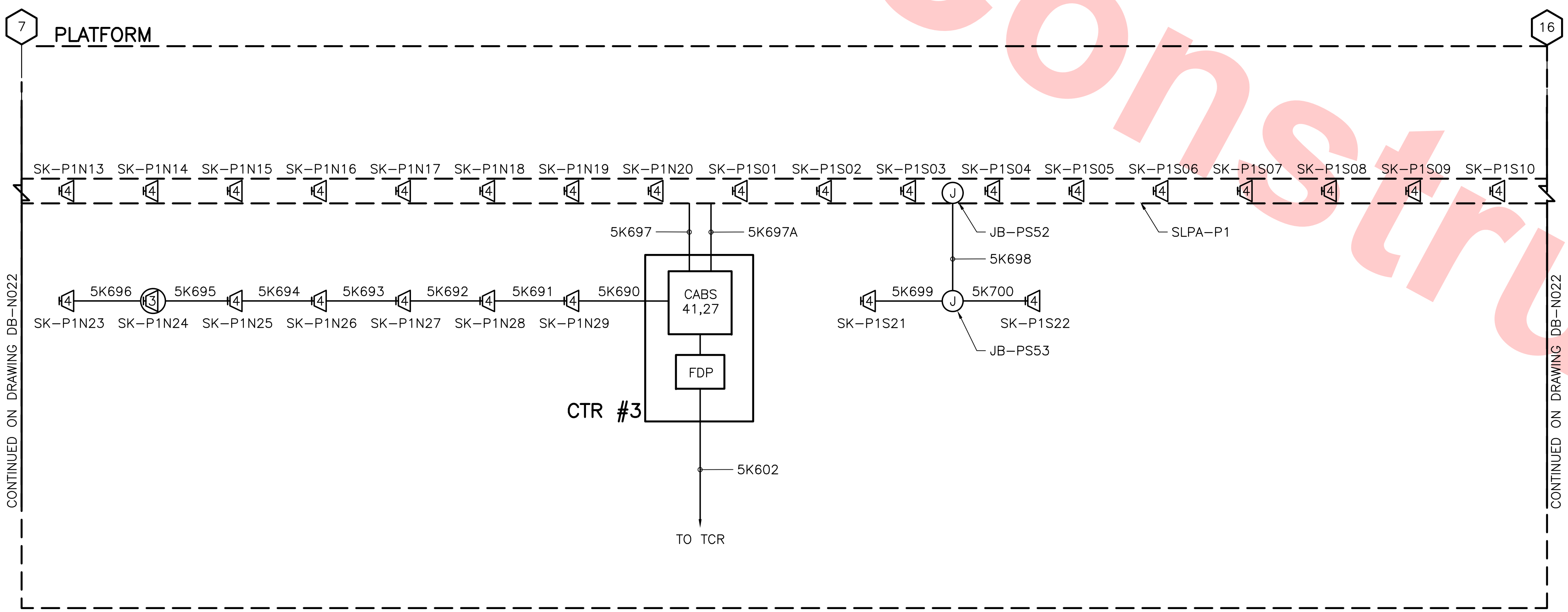
Adam

Not For Construction





NOTES:

1. SPEAKER TYPES WILL BE DETERMINED DURING FINAL DESIGN AND TESTING ANALYSIS.
2. ALL CABLES FROM SPEAKERS TO THE PA SYSTEM EQUIPMENT IN THE TCR AND CTRS; AND ALL CABLES BETWEEN TCR AND CTRS, WILL BE FURNISHED, INSTALLED, TERMINATED, AND TESTED.
3. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL PLAN AND DETAIL SHEETS FOR ROUTING THROUGH STRUCTURES. CONDUITS WILL NOT BE ROUTED/INSTALLED AT LOCATIONS WHERE THEY INTERFERE WITH THE REMOVAL OF EQUIPMENT FOR MAINTENANCE, REPAIR,OR CLEANUP; NOR INFRINGE UPON HEADROOM IN PASSAGES.
4. CONDUITS AND FITTINGS WILL BE GALVANIZED RIGID STEEL (GRS). GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) MAY BE RUN EXPOSED ABOVE 8 FEET AND CONCEALED IN WALLS AND CEILINGS IN OFFICES.
5. VTA POC AND CAMPUS AREA DEVICES AND ROUTING TO WAYSIDE FACILITIES NOT SHOWN. SEE DRAWING DB–N023.

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: ____________ Date: ____________

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REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEATRIZ A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

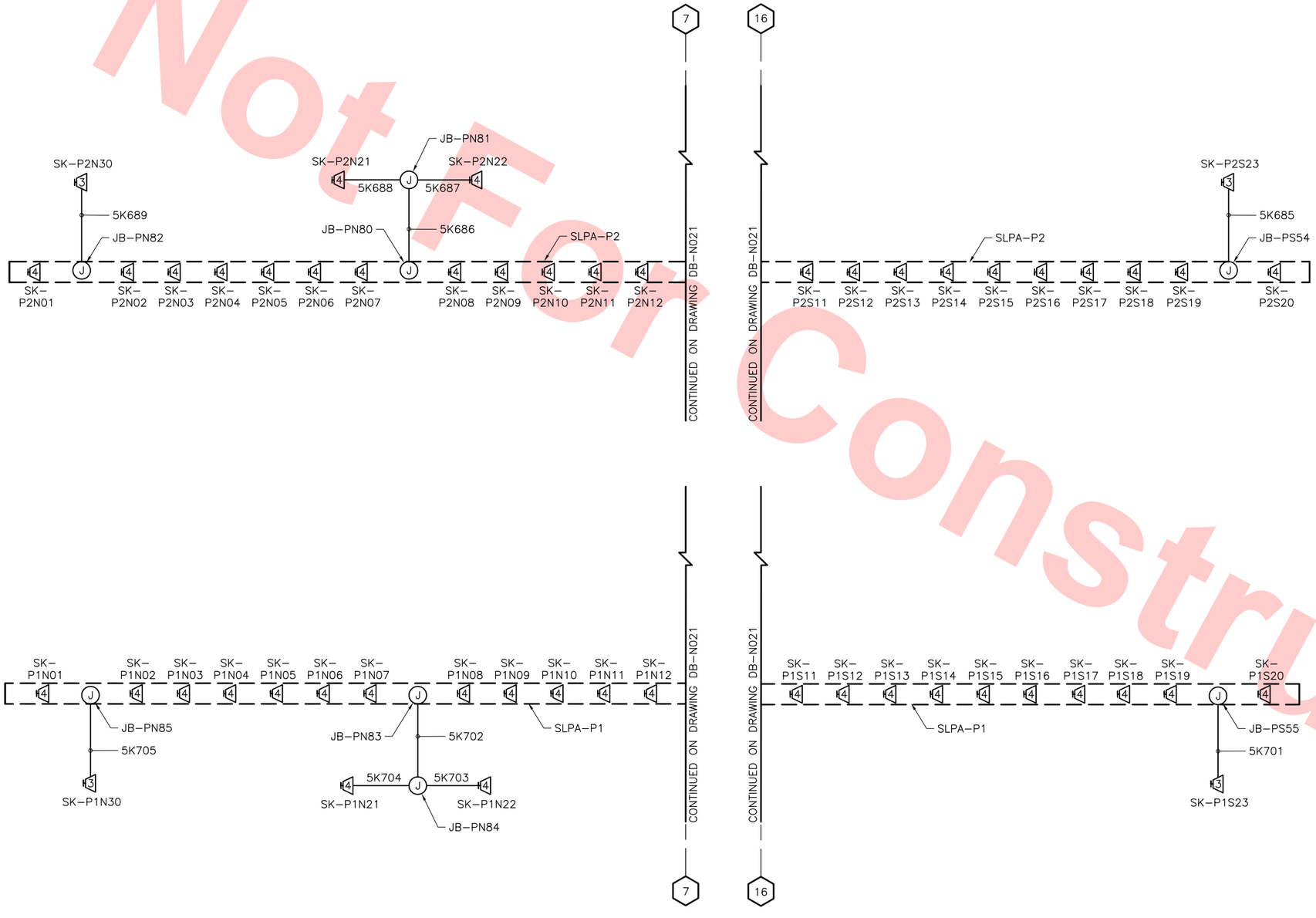
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PUBLIC ADDRESS RISER DIAGRAM
PLATFORM LEVEL
SHEET 1 OF 2

CADD FILENAME C700–S–DB–N021.dwg
SIZE D
SCALE NONE
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. N021
PAGE NO. 1028

Not For Construction

NOTES:

1. SPEAKER TYPES WILL BE DETERMINED DURING FINAL DESIGN AND TESTING ANALYSIS.
2. ALL CABLES FROM SPEAKERS TO THE PA SYSTEM EQUIPMENT IN THE TCR AND CTRS; AND ALL CABLES BETWEEN TCR AND CTRS, WILL BE FURNISHED, INSTALLED, TERMINATED, AND TESTED.
3. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL PLAN AND DETAIL SHEETS FOR ROUTING THROUGH STRUCTURES. CONDUITS WILL NOT BE ROUTED/INSTALLED AT LOCATIONS WHERE THEY INTERFERE WITH THE REMOVAL OF EQUIPMENT FOR MAINTENANCE, REPAIR,OR CLEANUP; NOR INFRINGE UPON HEADROOM IN PASSAGES.
4. CONDUITS AND FITTINGS WILL BE GALVANIZED RIGID STEEL (GRS). GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) MAY BE RUN EXPOSED ABOVE 8 FEET AND CONCEALED IN WALLS AND CEILINGS IN OFFICES.
5. VTA POC AND CAMPUS AREA DEVICES AND ROUTING TO WAYSIDE FACILITIES NOT SHOWN. SEE DRAWING DB–N023.



Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BERTHA A. MENDEZ LORA 51963 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
PUBLIC ADDRESS RISER DIAGRAM
PLATFORM LEVEL
SHEET 2 OF 2

CADD FILENAME		
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SIZE D	SCALE NONE	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. N022	PAGE NO. 1029

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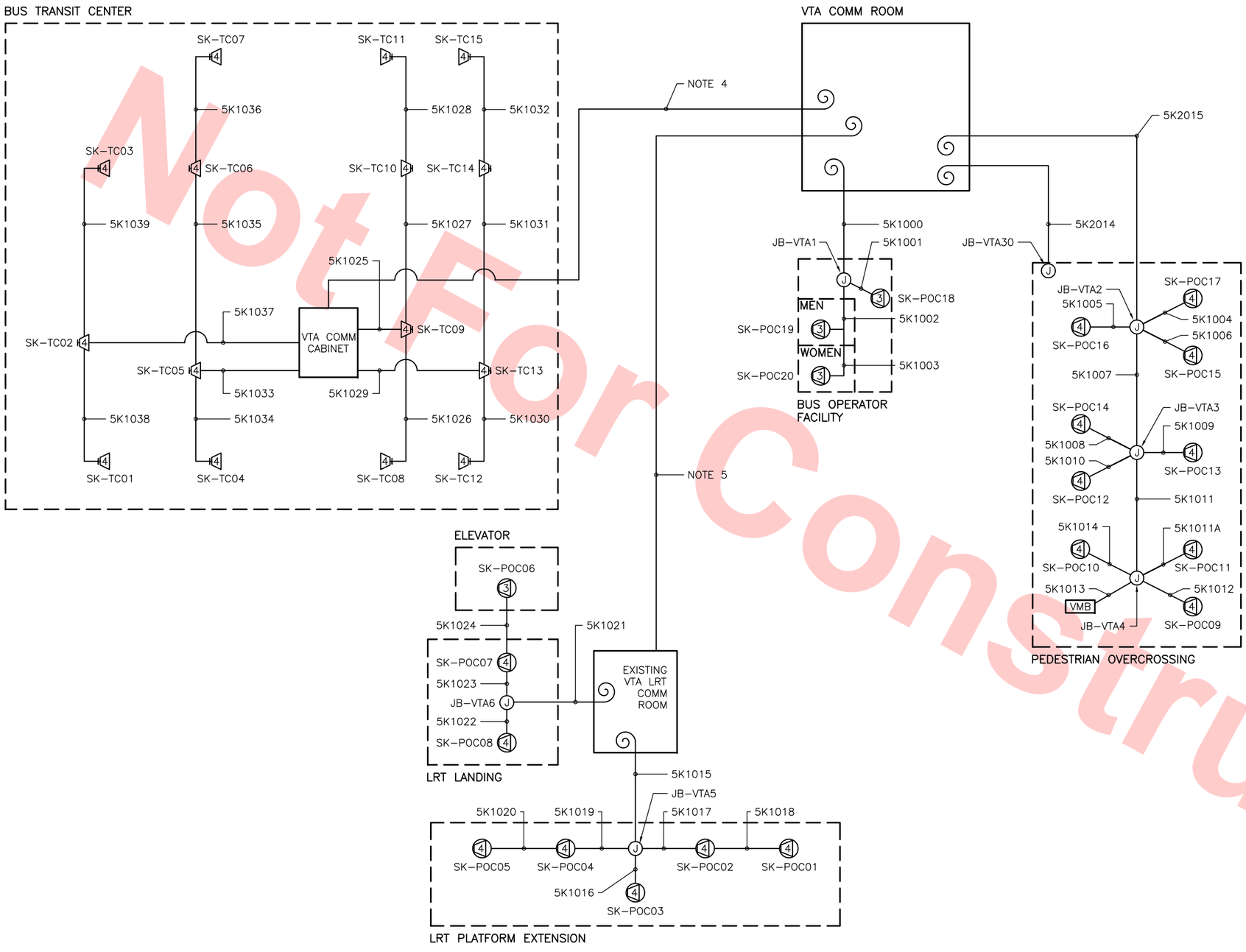

NOTES:

1. SPEAKER TYPES WILL BE DETERMINED DURING FINAL DESIGN AND TESTING ANALYSIS.
2. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL SITE PLAN AND DETAIL SHEETS FOR ROUTING DETAILS.
3. 50 FEET OF COIL FOR EACH CABLE (FIBER AND COPPER) TO BE PROVIDED IN VTA COMM ROOM.
4. REFER TO VTA CONDUIT AND CABLE SCHEDULE DRAWING DB–B991 FOR REQUIREMENTS BETWEEN VTA COMM ROOM AND VTA COMM CABINET.
5. REFER TO VTA CONDUIT AND CABLE SCHEDULE DRAWING DB–B991 FOR REQUIREMENTS BETWEEN VTA COMM ROOM AND EXISTING VTA LRT COMM ROOM.

Not For Construction

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN A. MENDEZ LORA — 51963 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEG A SALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
VTA PUBLIC ADDRESS SYSTEM
RISER DIAGRAM

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SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. N023 | PAGE NO. 1030

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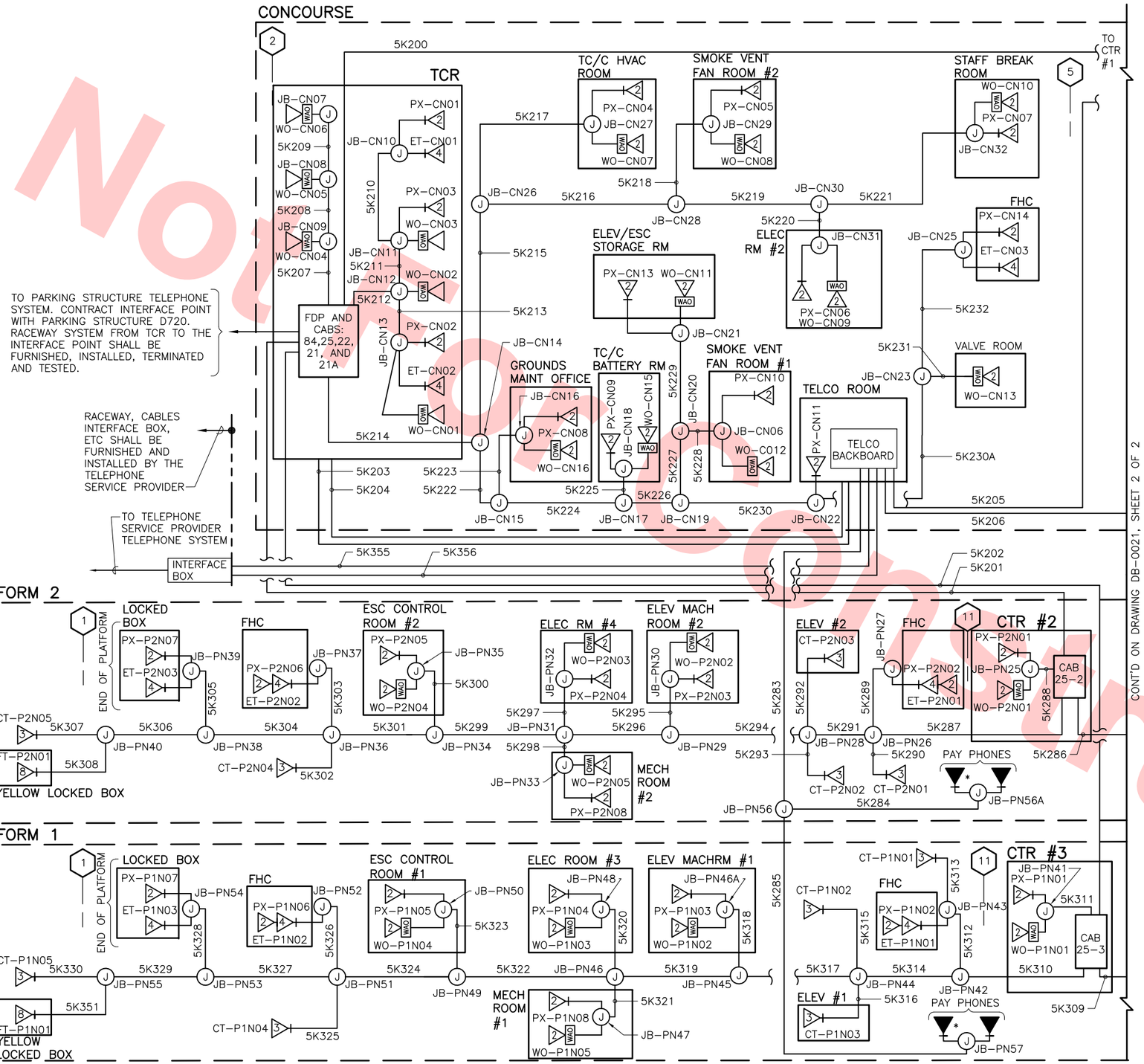
Adam



NOTES:

1. TELEPHONE TYPES SHALL BE DETERMINED DURING FINAL DESIGN AND TESTING ANALYSIS.
2. PUBLIC PAY PHONE OUTLETS SHALL BE FURNISHED AND INSTALLED BY TELEPHONE SERVICE PROVIDER.
3. ALL CABLES FROM TELEPHONE JACKS AND OUTLETS TO THE TELEPHONE TERMINATION CABINETS IN THE CTR AND TO THE TELEPHONE INTERFACE CABINET IN THE TCR SHALL BE FURNISHED, INSTALLED, TERMINATED AND TESTED.
4. ALL CABLES BETWEEN TELEPHONE TERMINATION CABINETS IN THE CTR AND THE MAIN DISTRIBUTION FRAME CABINET IN THE TCR SHALL BE FURNISHED, INSTALLED, TERMINATED AND TESTED.
5. TELEPHONE CABLES FROM THE TELCO ROOM TO THE TCR SHALL BE FURNISHED, INSTALLED, TERMINATED AND TESTED.
6. TELEPHONE CABLES FROM THE CROSS-CONNECT BLOCKS IN THE TELCO ROOM TO THE PUBLIC PAY PHONE STATIONS SHALL BE FURNISHED, INSTALLED, TERMINATED AND TESTED BY THE TELEPHONE SERVICE PROVIDER.
7. TELEPHONE CABLES FROM THE ENTRANCE TERMINALS IN THE TELCO ROOM TO THE TELEPHONE SERVICE PROVIDER INTERFACE BOX SHALL BE FURNISHED, INSTALLED, TERMINATED AND TESTED BY THE TELEPHONE SERVICE PROVIDER.
8. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL PLAN & DETAIL SHEETS FOR FURTHER ROUTING THROUGH MAJOR STRUCTURES. CONDUITS SHALL NOT BE ROUTED/INSTALLED AT LOCATIONS WHERE THEY INTERFERE WITH THE REMOVAL OF EQUIPMENT FOR MAINTENANCE, REPAIR OR CLEANUP NOR INFRINGE UPON HEADROOM IN PASSAGES.
9. CONDUITS AND FITTINGS SHALL BE GALVANIZED RIGID STEEL (GRS). GALVANIZED STEEL ELECTRICAL METALLIC TUBING (EMT) MAY BE RUN EXPOSED ABOVE 8 FEET AND CONCEALED IN WALLS AND CEILINGS IN OFFICES.
10. COMMUNICATION EQUIPMENT LOCATED AT THE VTA BUS OPERATOR FACILITY, BICYCLE STORAGE FACILITY AND LRT POC ARE NOT SHOWN IN THIS RISER DIAGRAM. REFER TO SHEET DB-0022.

Santa Clara Valley Transportation Authority

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____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

LEGEND:

ET-P1S01	EMERGENCY TELEPHONE NO. 1 LOCATED AT PLATFORM 1 LEVEL SOUTH
ET-P2N01	EMERGENCY TELEPHONE NO. 1 LOCATED AT PLATFORM 2 LEVEL NORTH
CT-CS03	COURTESY TELEPHONE NO. 3 LOCATED AT CONCOURSE LEVEL SOUTH

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BERTHA A. MENDEZ LORA No. E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

SUBMITTED LTK Engineering Services

APPROVED Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY / T-Y-LIN INTERNATIONAL

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TELEPHONE SYSTEM
RISER DIAGRAM
SHEET 1 OF 2

CADD FILENAME C700-S-DB-0020.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. 0020 | PAGE NO. 1031

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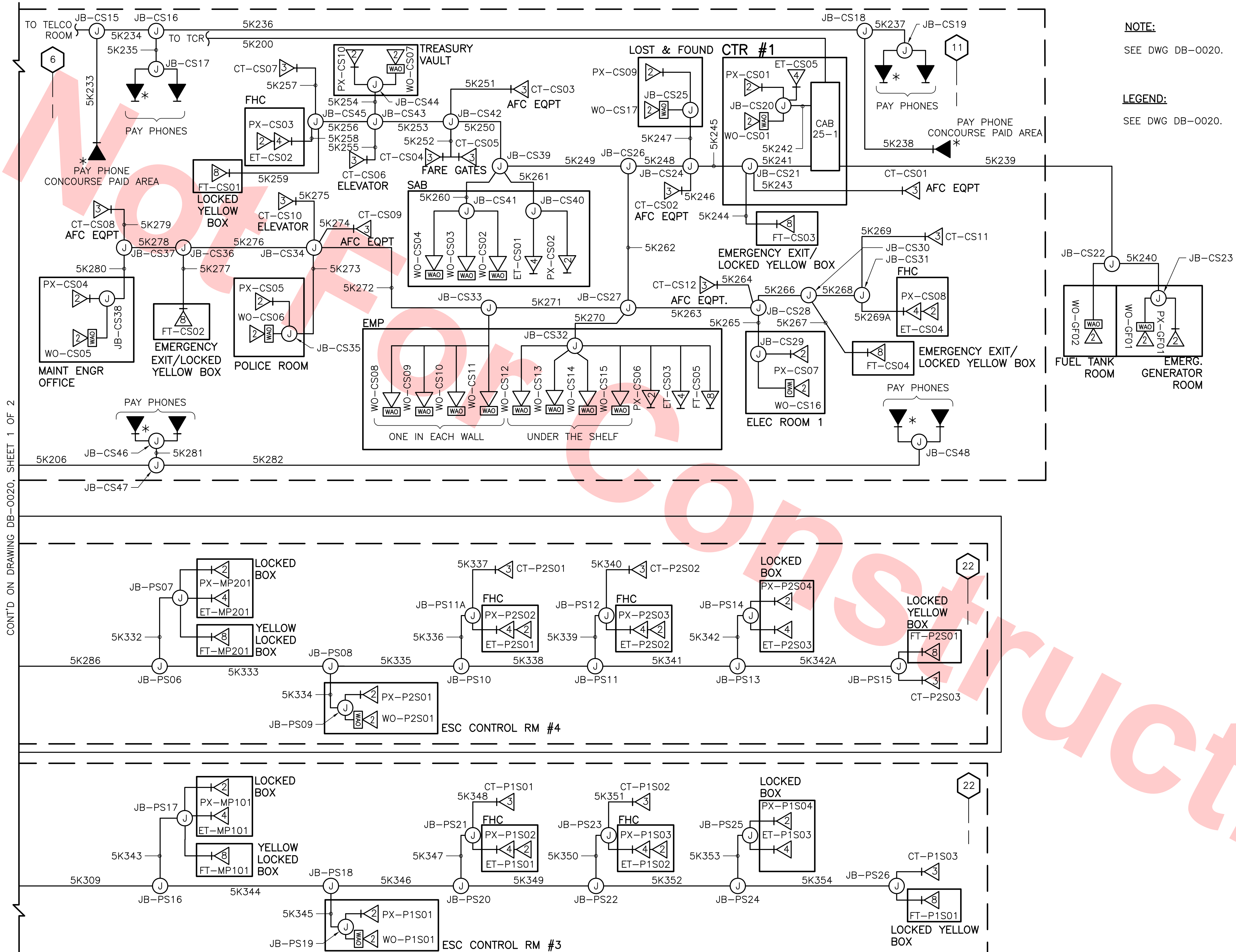
Not for Construction



NOTE:

SEE DWG DB-0020.

LEGEND:

SEE DWG DB-0020.

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: ________ Date: ________

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

Skanska Shimmick Herzog — 1436 California Circle, Milpitas, California 95035 — A Joint Venture

LTK Engineering Services — SUBMITTED

Lockwood, Andrews & Newnam, Inc. — T.Y.LIN INTERNATIONAL — APPROVED

BART SILICON VALLEY — BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TELEPHONE SYSTEM
RISER DIAGRAM
SHEET 2 OF 2

CADD FILENAME C700-S-DB-0021.dwg
SIZE D — SCALE NONE
CONTRACT NO. C700 — REV. 0
AREA CODE DB — SHEET NO. 0021 — PAGE NO. 1032

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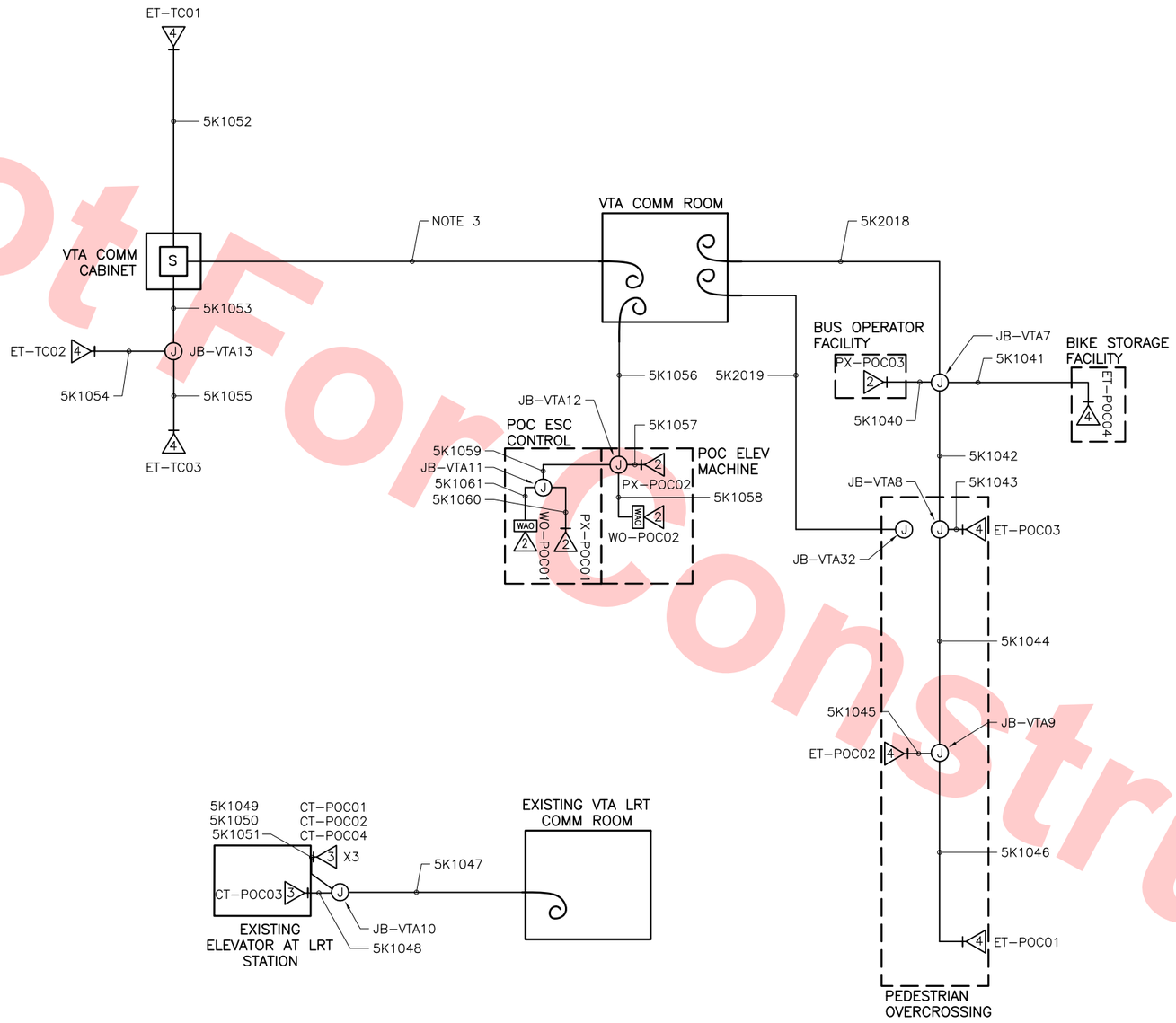
Not For Construction



NOTES:

1. 50 FEET OF COIL FOR EACH CABLE (FIBER AND COPPER) TO BE PROVIDED IN VTA COMM ROOM.
2. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL SITE PLANS FOR ROUTING DETAILS.
3. REFER TO VTA CONDUIT AND CABLE SCHEDULE DRAWING DB-B991 FOR REQUIREMENTS BETWEEN VTA COMM ROOM AND VTA COMM CABINET.

Not For Construction

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BERNARDO A. MENDEZ LORA 19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
VTA TELEPHONE SYSTEM
RISER DIAGRAM

CADD FILENAME C700-S-DB-0022.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. 0022 | PAGE NO. 1033

Jun 20, 2013 - 9:36am C:\projectwise\mbx-ostrode\dms34735\C700-S-DB-0022.DWG
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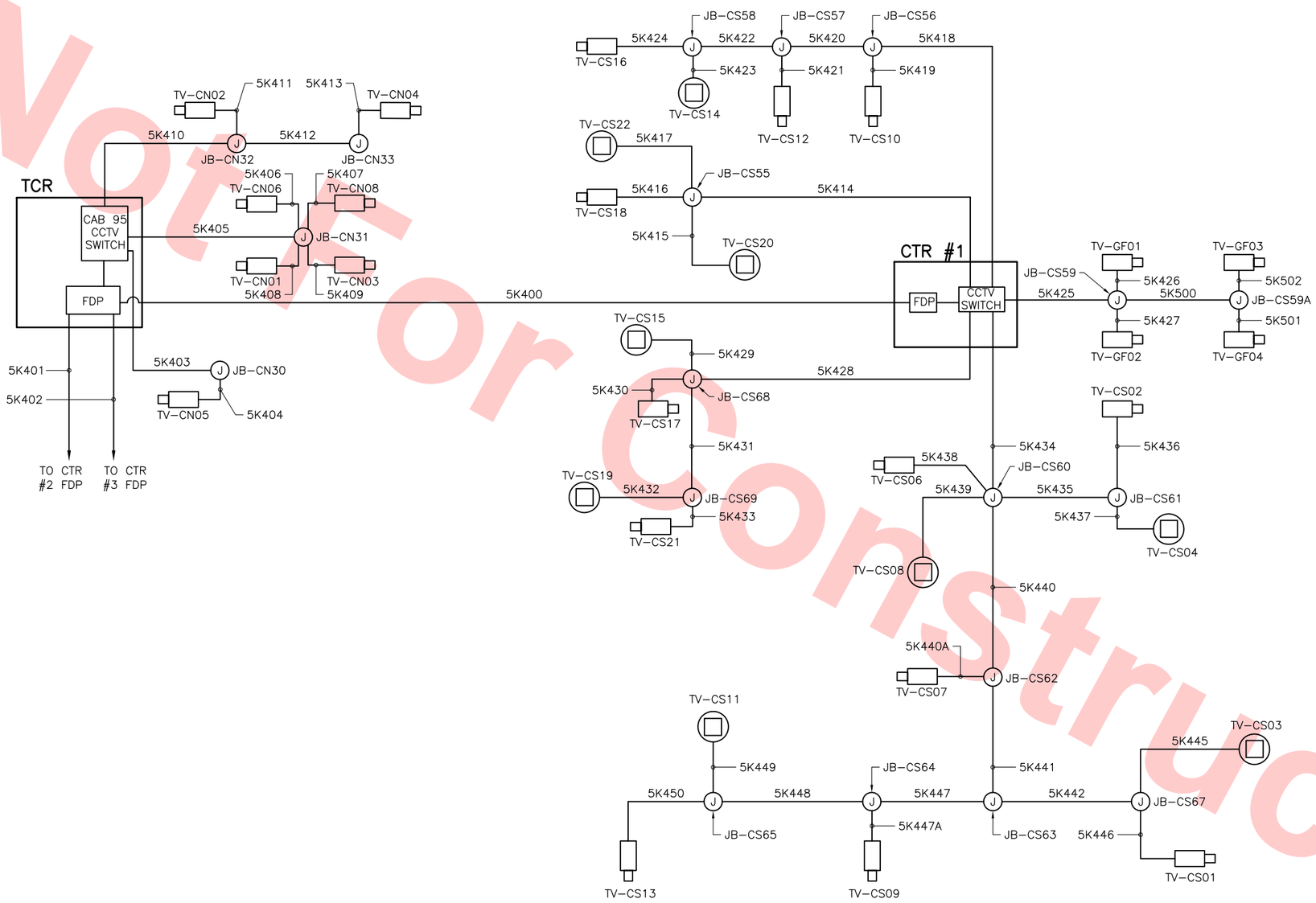

NOTES:

1. CAMERA TYPES WILL BE DETERMINED DURING FINAL DESIGN.
2. VTA POC AND CAMPUS AREA DEVICES AND ROUTING TO WAYSIDE FACILITIES NOT SHOWN.
3. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL PLAN & DETAIL SHEETS FOR FURTHER ROUTING THROUGH MAJOR STRUCTURES.
4. POWER CABLING AND ROUTING NOT SHOWN. SEE CABLE SCHEDULES.
5. CAMERAS SHALL BE CONNECTED DIRECTLY TO THE ASSOCIATED CCTV SWITCH W/O MEDIA CONVERTER AS THE INTERMEDIARY WHEREVER FEASIBLE.

Not for Construction

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

RECORDED BEATRIZ A. MENDEZ LORA 5196 39 EXP. 09-30-13 PROFESSIONAL ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

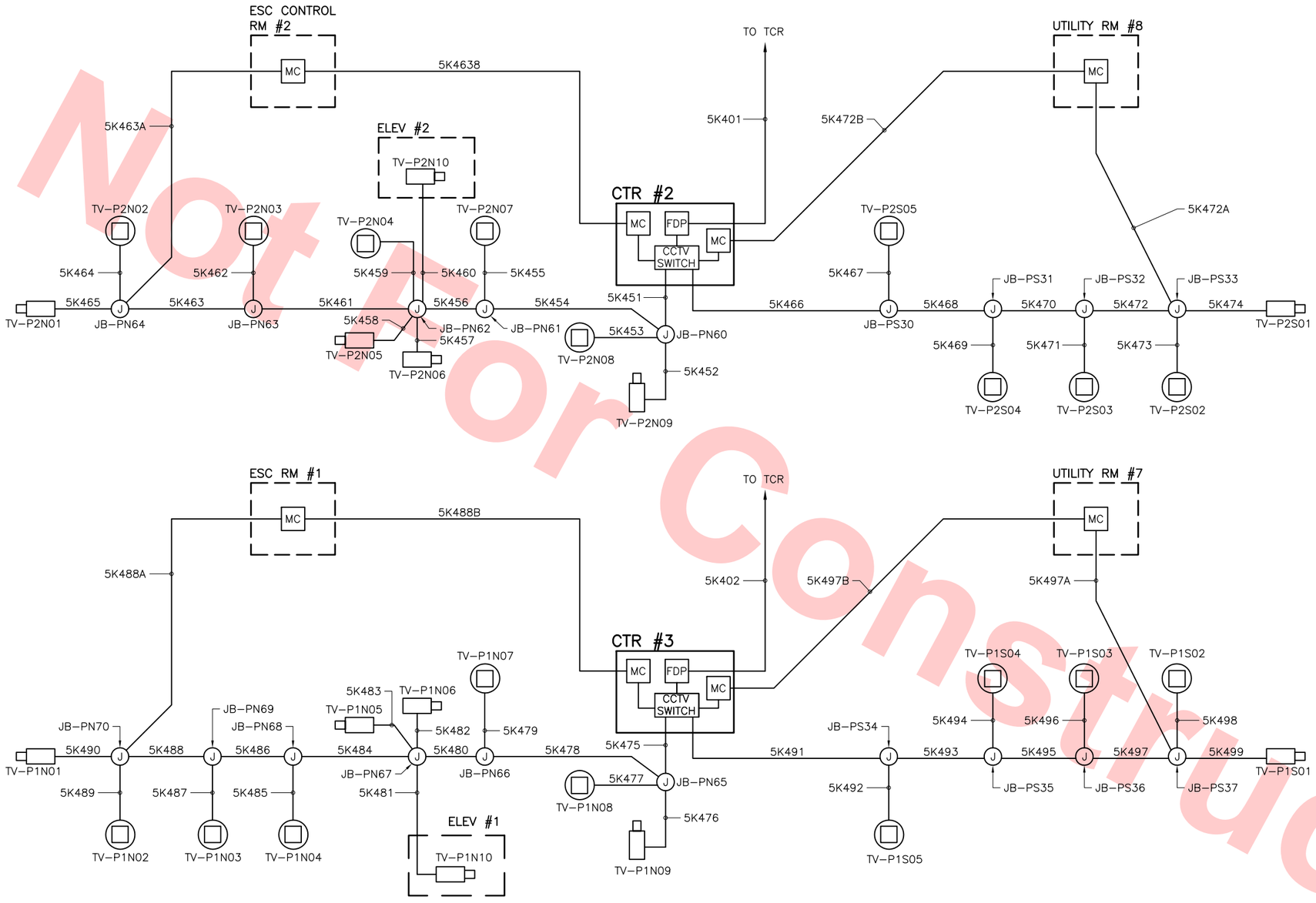
Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T-Y-LIN INTERNATIONAL
APPROVED

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CCTV RISER DIAGRAM
CONCOURSE LEVEL

CADD FILENAME C700-S-DB-Q020.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. Q020 | PAGE NO. 1034

Adam Jun 20, 2013 - 9:36am C:\projectwise\mbx-adinode\dms34735\C700-S-DB-Q020.DWG



NOTES:

1. CAMERA TYPES WILL BE DETERMINED DURING FINAL DESIGN.
2. VTA POC AND CAMPUS AREA DEVICES AND ROUTING TO WAYSIDE FACILITIES NOT SHOWN.
3. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL PLAN & DETAIL SHEETS FOR FURTHER ROUTING THROUGH MAJOR STRUCTURES.
4. POWER CABLING AND ROUTING NOT SHOWN. SEE ELECTRICAL DRAWINGS.
5. CAMERAS SHALL BE CONNECTED DIRECTLY TO THE ASSOCIATED CCTV SWITCH W/O MEDIA CONVERTER AS THE INTERMEDIARY WHEREVER FEASIBLE.

Not For Construction

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEARLY K. MENDEZ LORA 519639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

SUBMITTED LTK Engineering Services

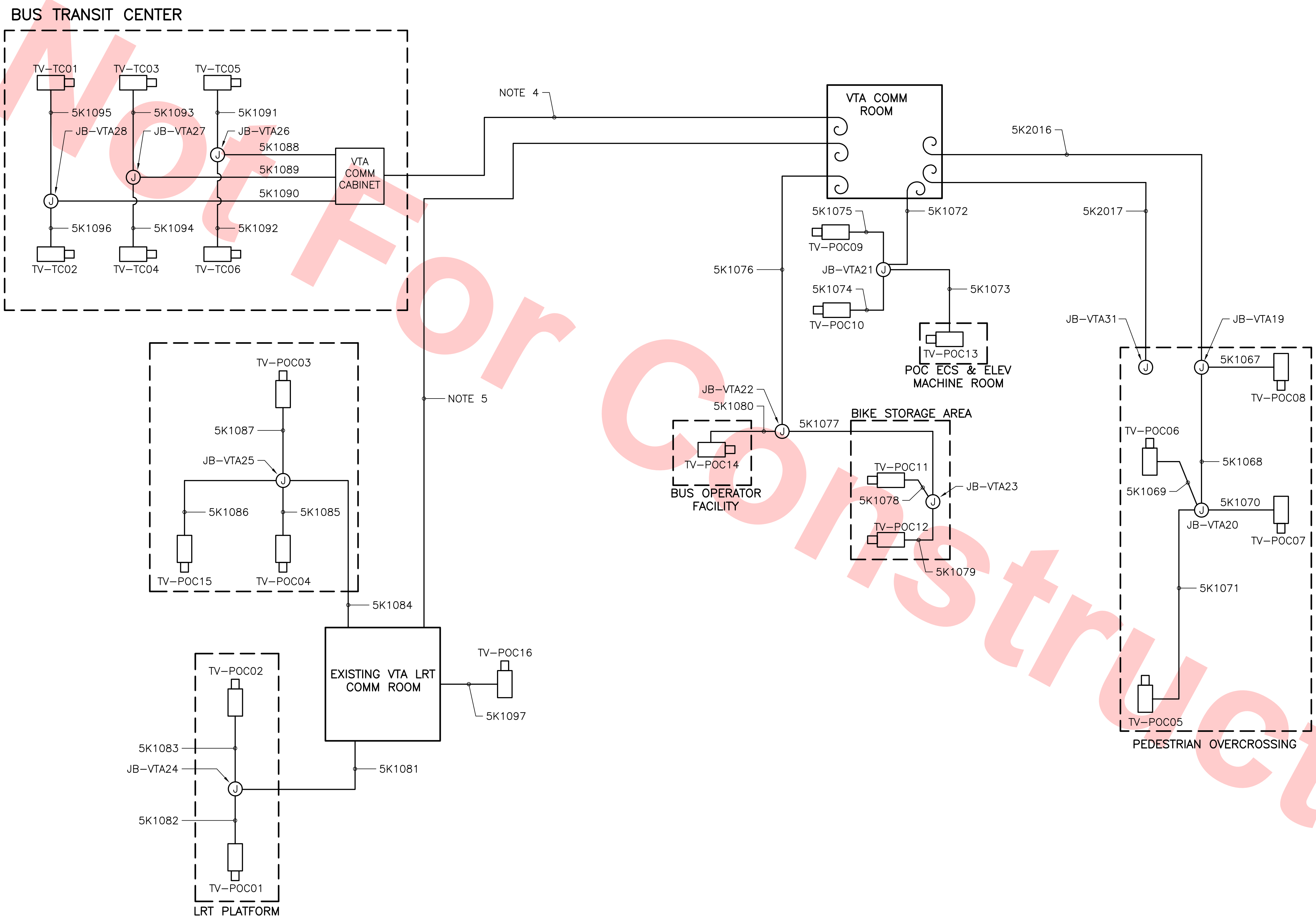
APPROVED Lockwood, Andrews & Newnam, Inc. A LEG A BALY COMPANY / T·Y·LIN INTERNATIONAL

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CCTV RISER DIAGRAM
PLATFORM LEVEL

CADD FILENAME C700-S-DB-Q021.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. Q021 | PAGE NO. 1035

Jun 20, 2013 - 9:36am C:\projectwise\mbx-astroia\dms34735\C700-S-DB-Q021.DWG
Adam



NOTES:

1. REFER TO DU-031 FOR VTA CAMERA TYPES (FIXED).
2. 50 FEET OF COIL FOR EACH CABLE (FIBER AND COPPER) TO BE PROVIDED IN VTA COMM ROOM.
3. CONDUITS ARE DIAGRAMMATICALLY SHOWN. REFER TO ELECTRICAL PLAN & DETAIL SHEETS FOR FURTHER ROUTING THROUGH MAJOR STRUCTURES.
4. REFER TO VTA CONDUIT AND CABLE SCHEDULE DRAWING DB-B991 FOR REQUIREMENTS BETWEEN VTA COMM ROOM AND VTA COMM CABINET.
5. REFER TO VTA CONDUIT AND CABLE SCHEDULE DRAWING DB-B991 FOR REQUIREMENTS BETWEEN VTA COMM ROOM AND EXISTING VTA LRT COMM ROOM.

Not For Construction

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: ____________ Date: ____________

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEATRIZ A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
VTA CCTV RISER DIAGRAM

CADD FILENAME C700-S-DB-Q022.dwg
SIZE D
SCALE NONE
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. Q022
PAGE NO. 1036

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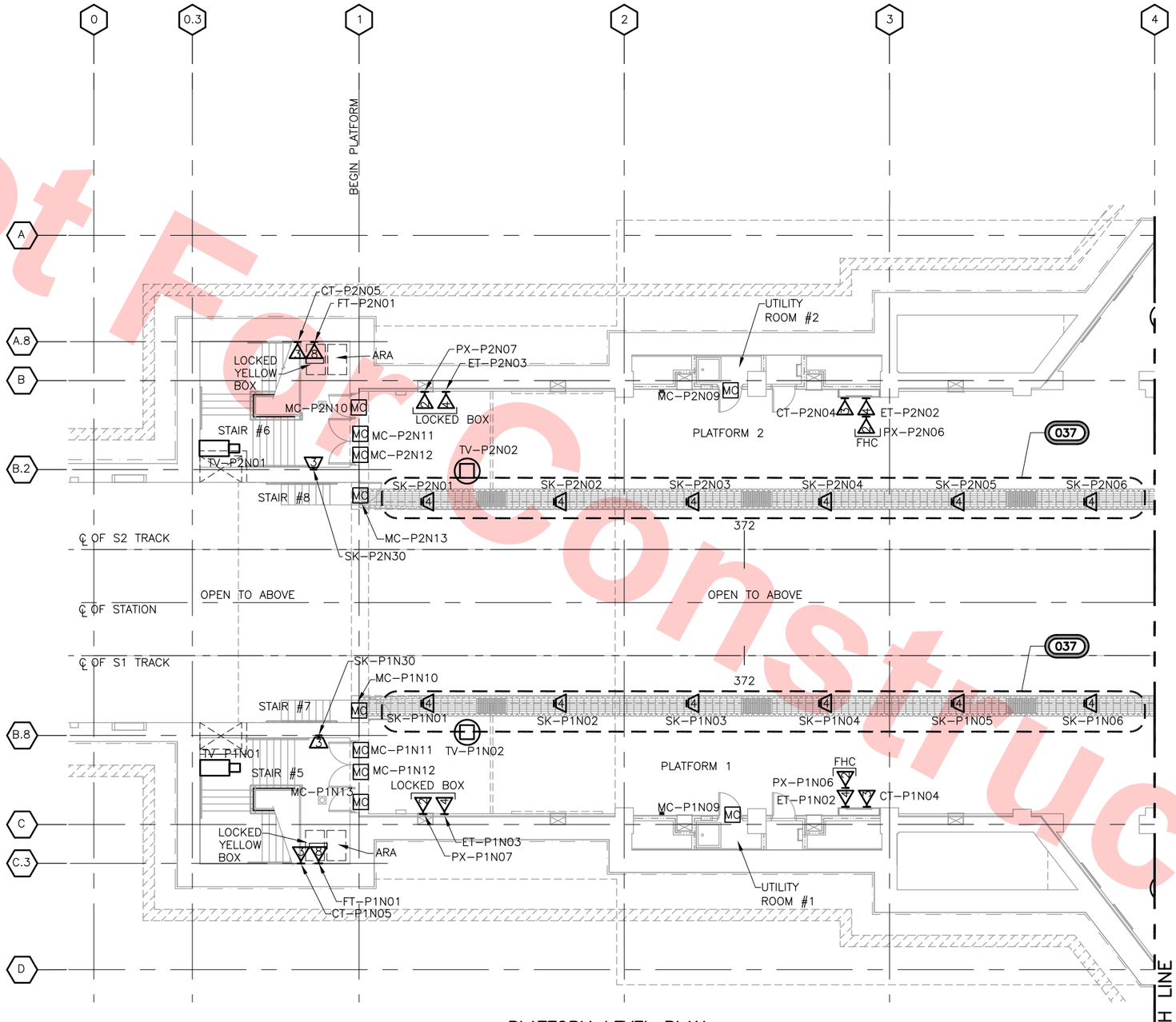
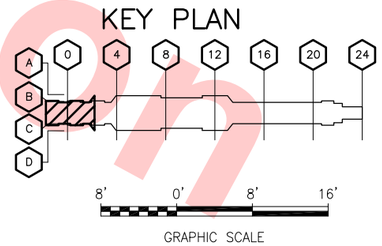
Not For Construction



PLATFORM LEVEL PLAN
SCALE: 1/8"=1'–0"

KEY PLAN



Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA No. E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
LTK Engineering Services

APPROVED Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y·LIN INTERNATIONAL

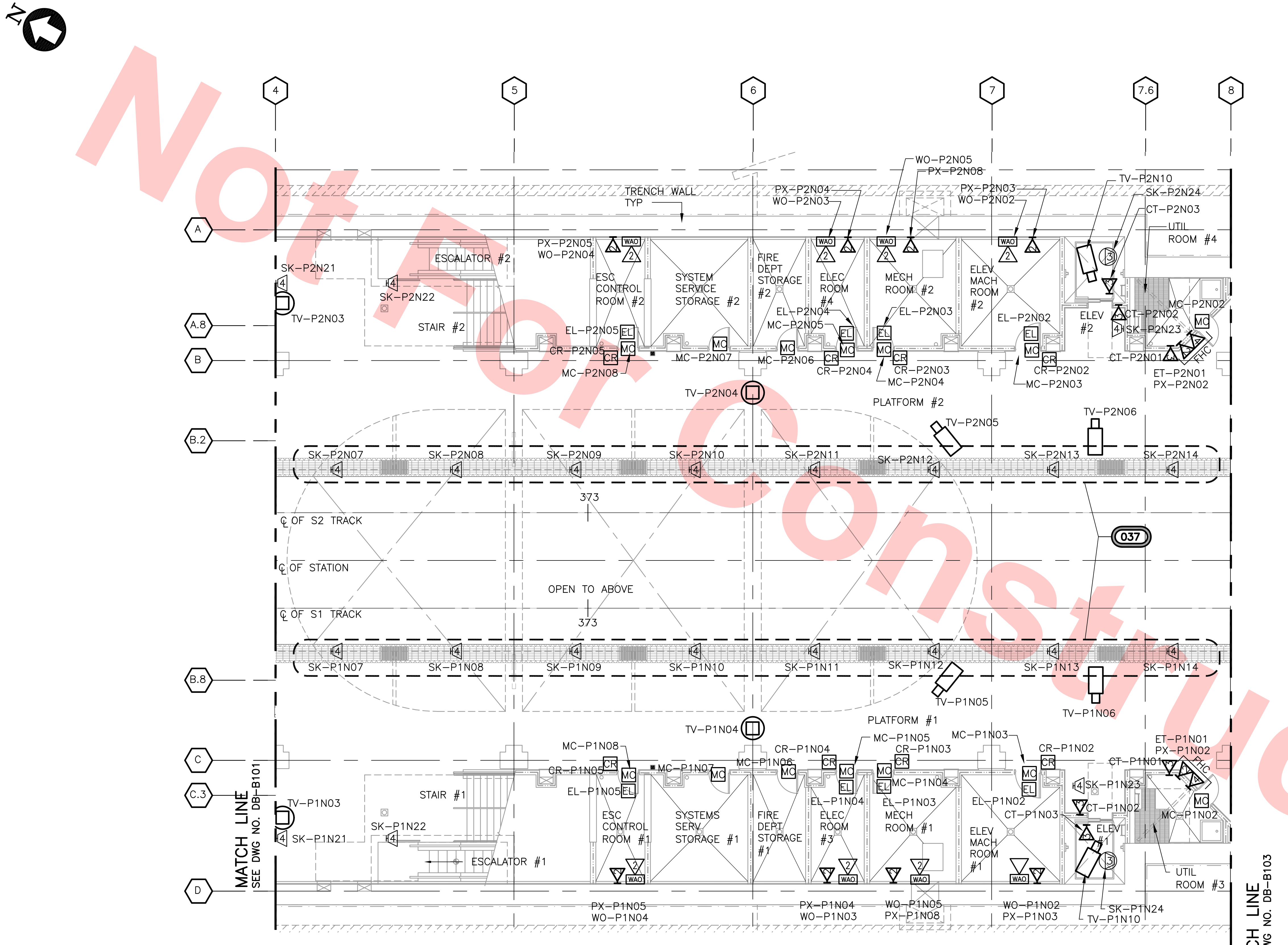
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 1 OF 6

CADD FILENAME C700–S–DB–B101.dwg
SIZE D | SCALE 1/8"=1'–0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B101 | PAGE NO. 1037

Adam Jun 27, 2013 – 11:13am C:\projectwise\mbx–oabrode\dms34735\C700–S–DB–B101.dwg

Not For Construction



PLATFORM LEVEL PLAN

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

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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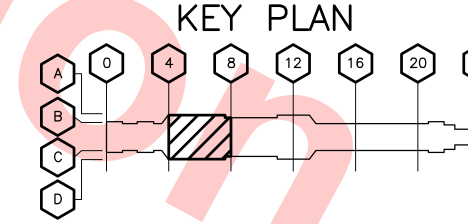
Contract No.: DB11002F

By: ____________ Date: ____________

KEY PLAN



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Adam

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER B. A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

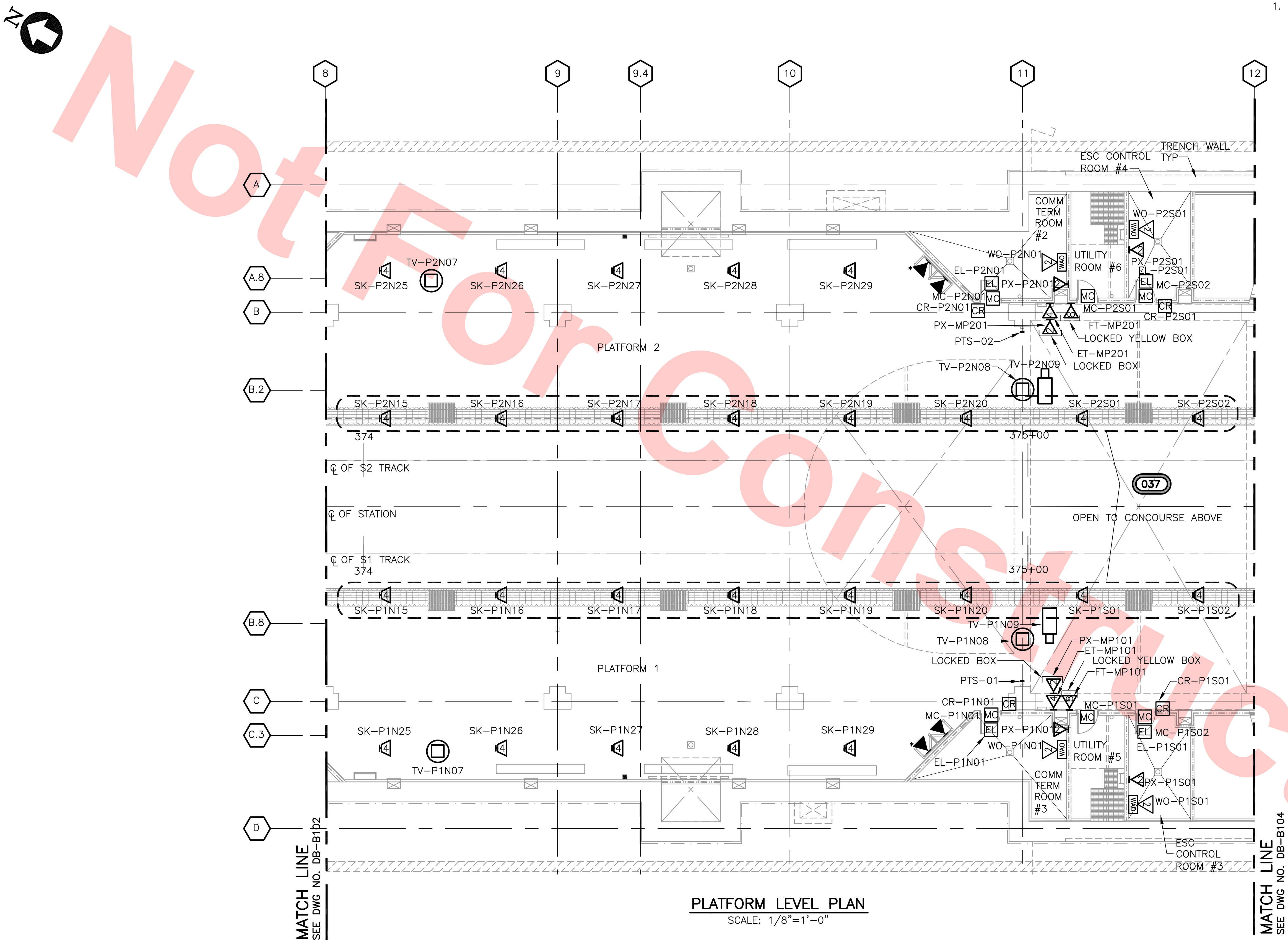
VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 2 OF 6

CADD FILENAME C700-S-DB-B102.dwg
SIZE D
SCALE 1/8"=1'-0"
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. B102
PAGE NO. 1038

NOTE:

1. PENDANT MOUNT SPEAKERS NOT INSTALLED WITHIN SLPA AT 12' AFF.



PLATFORM LEVEL PLAN

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

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
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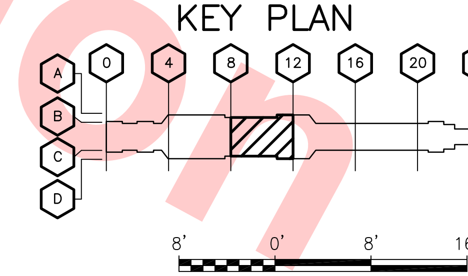
Contract No.: DB11002F

By: ____________ Date: ____________

KEY PLAN



8' 0' 8' 16'

GRAPHIC SCALE

Not For Construction

Adam Jun 27, 2013 - 11:17am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B103.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENITO A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc.
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 3 OF 6

CADD FILENAME C700-S-DB-B103.dwg
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CONTRACT NO. C700
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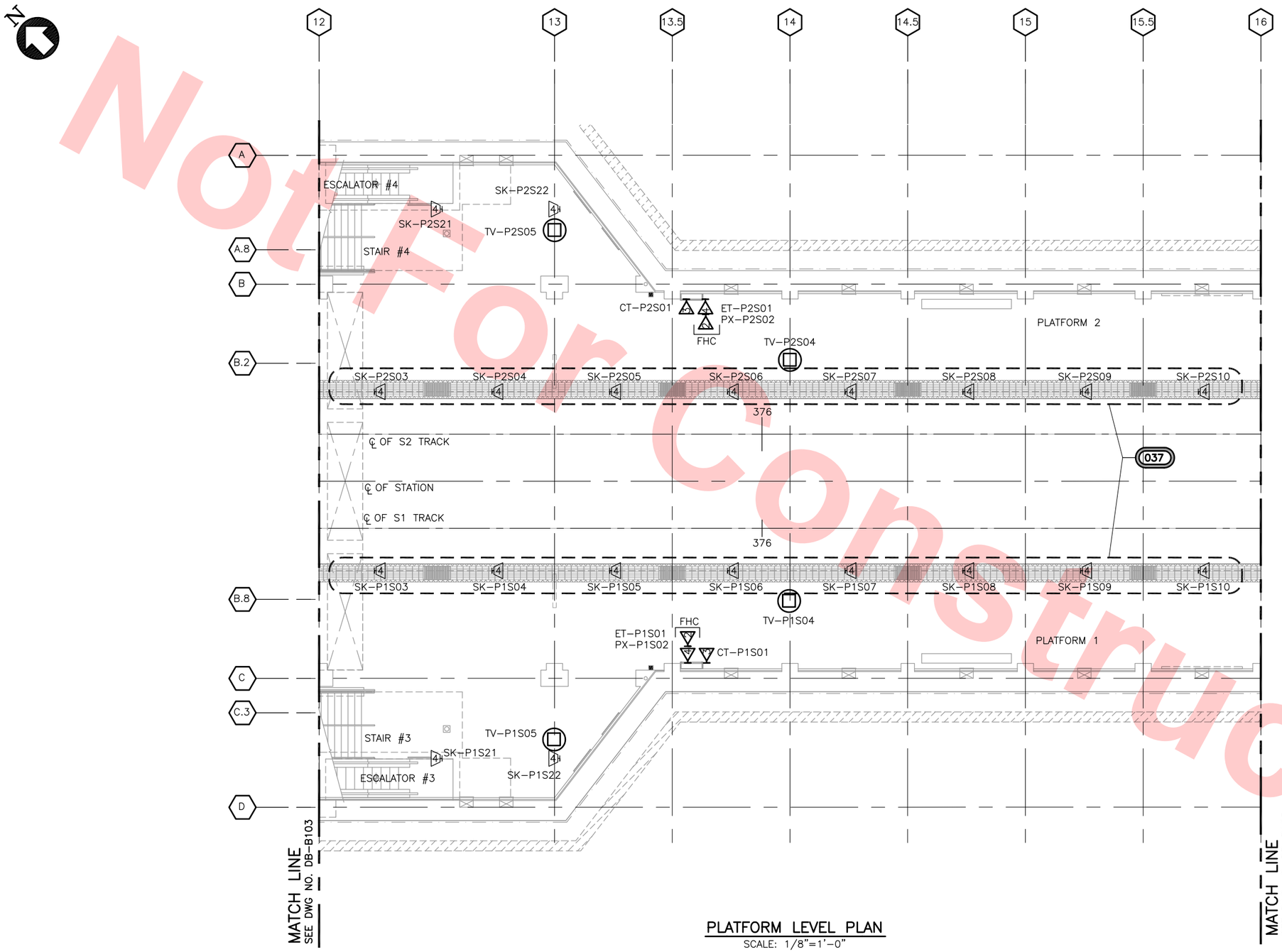
SHEET NO. B103
PAGE NO. 1039



PLATFORM LEVEL PLAN
SCALE: 1/8"=1'-0"

NOTE:

1. PENDANT MOUNT SPEAKERS NOT INSTALLED WITHIN SLPA AT 12' AFF.

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
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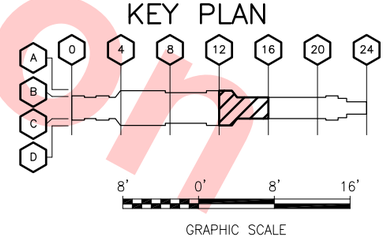
Contract No.: DB11002F

By: _____ Date: _____

KEY PLAN



GRAPHIC SCALE

Not for Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — E. A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. — A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023

MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 4 OF 6

CADD FILENAME		
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SIZE	SCALE	
D	1/8"=1'-0"	
CONTRACT NO.		REV.
C700		0
AREA CODE	SHEET NO.	PAGE NO.
DB	B104	1040

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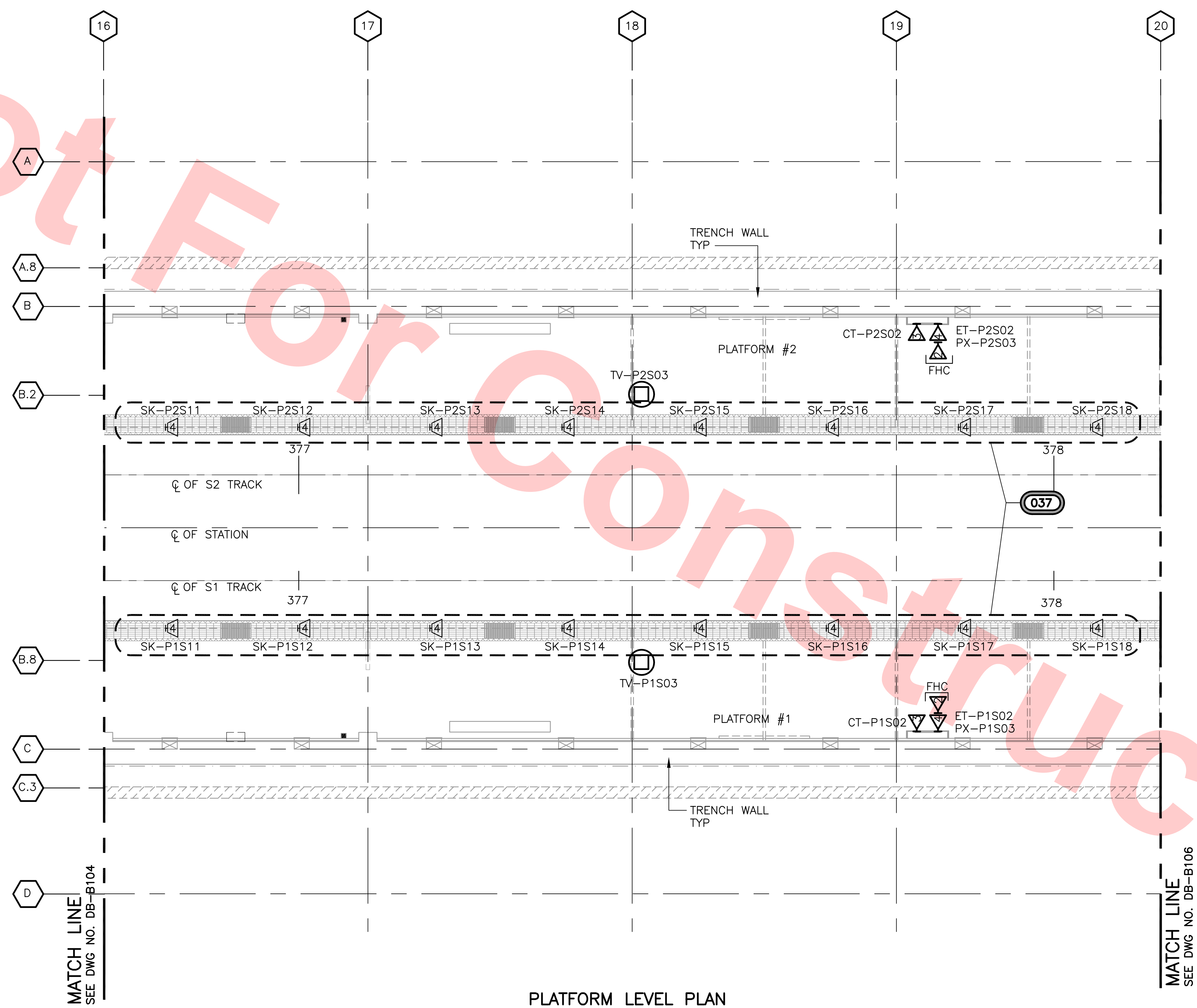
Not For Construction



PLATFORM LEVEL PLAN

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

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
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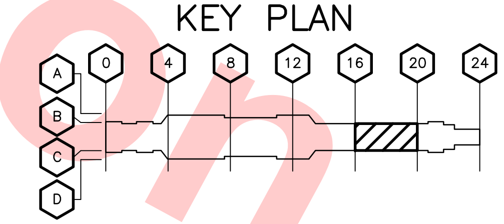
Contract No.: DB11002F

By: ________ Date: ________

KEY PLAN



8' 0' 8' 16'

GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M .GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

Skanska Shimmick Herzog — 1436 California Circle, Milpitas, California 95035 — A Joint Venture

LTK Engineering Services — SUBMITTED

Lockwood, Andrews & Newnam, Inc. — T·Y·LIN INTERNATIONAL — APPROVED

VTA — BART SILICON VALLEY — BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 5 OF 6

CADD FILENAME C700-S-DB-B105.dwg
SIZE D — SCALE 1/8"=1'-0"
CONTRACT NO. C700 — REV. 0
AREA CODE DB — SHEET NO. B105 — PAGE NO. 1041

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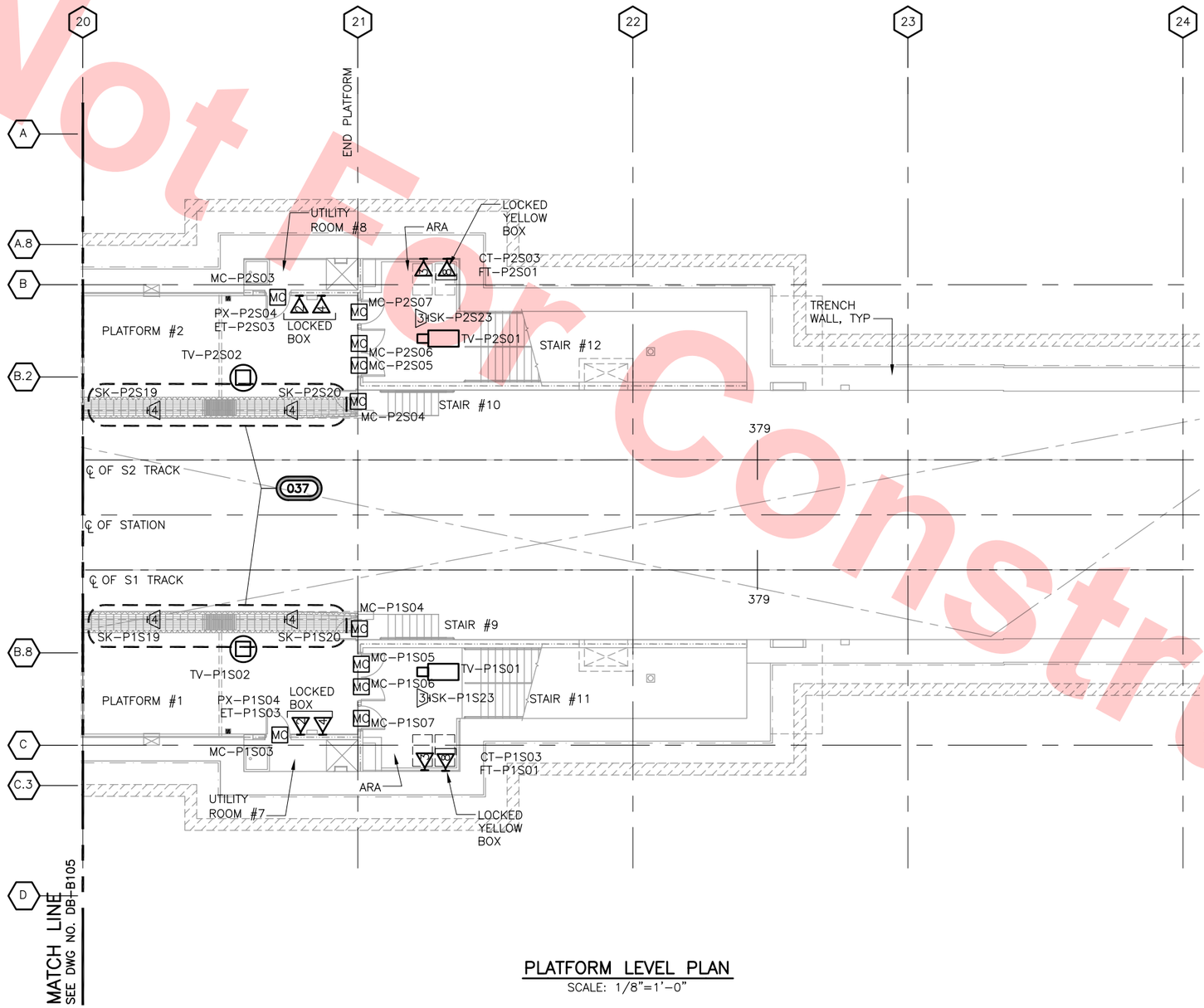
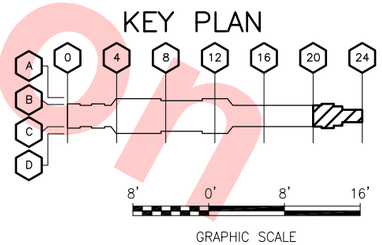
Not For Construction



PLATFORM LEVEL PLAN
SCALE: 1/8"=1'–0"

KEY PLAN



GRAPHIC SCALE

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
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By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BRADLEY K. MENDENHALL E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL

APPROVED

VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 6 OF 6

CADD FILENAME C700–S–DB–B106.dwg
SIZE D | SCALE 1/8"=1'–0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B106 | PAGE NO. 1042

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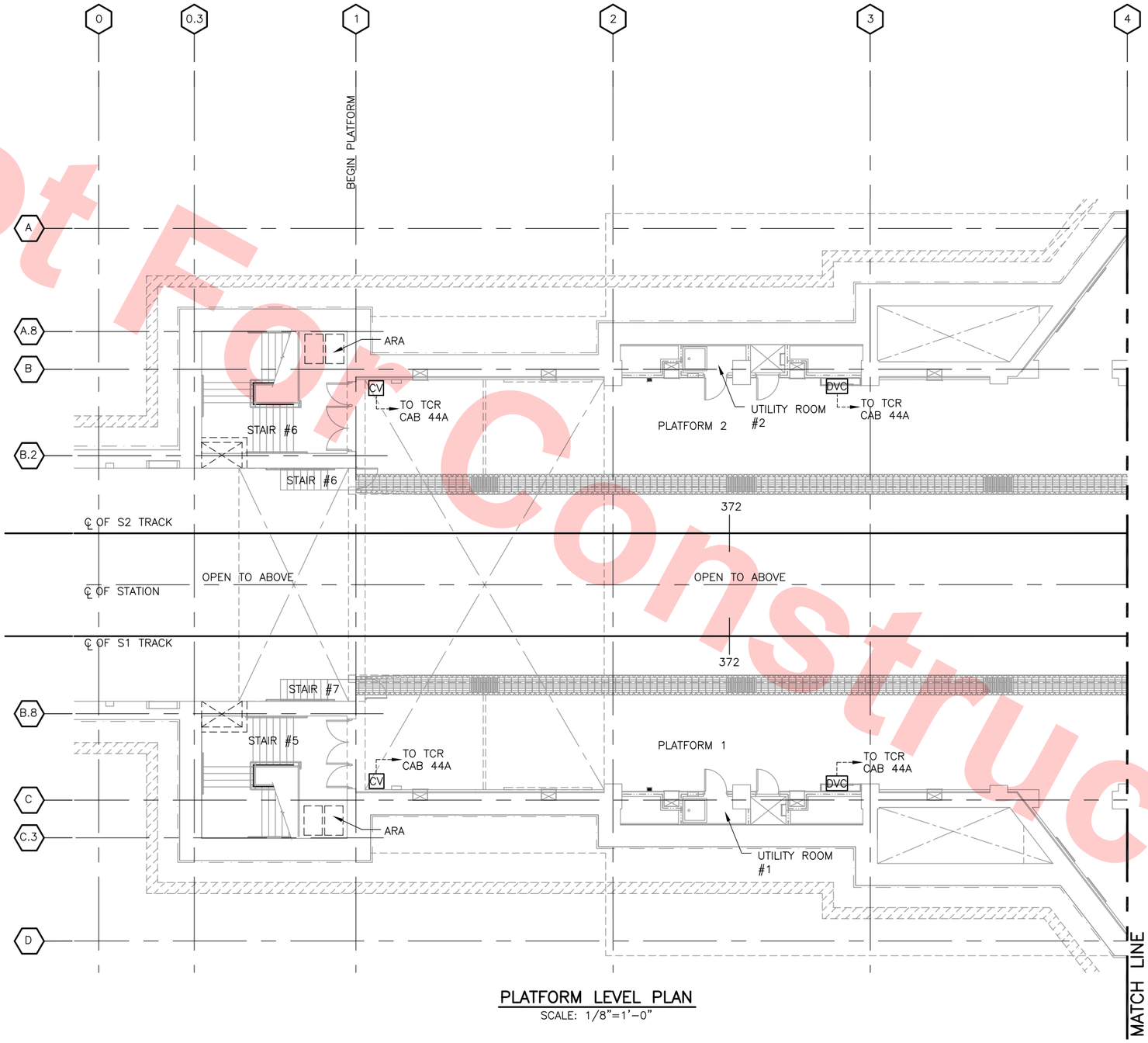
Adam

Not For Construction



PLATFORM LEVEL PLAN
SCALE: 1/8"=1'-0"

MATCH LINE
SEE DWG NO. DB-B102

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- HIDDEN/BURIED CONDUIT
- EXPOSED CONDUIT
- CIC — COMMUNICATIONS INTERFACE CABINET
- LCP — LIGHTING CONTROL PANEL
- I/O — INPUT/OUTPUT TERMINAL BOARD/CABINET
- FC — FARE COLLECTION INTERFACE JUNCTION BOX
- SAB — STATION AGENT BOOTH CONTROL PANEL
- CV — CONTROL VALVE
- PTS — PASSENGER TRIP STATION
- VCP — VENTILATION CONTROL PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FCP — FAN CONTROL PANEL
- DVC — DELUGE VALVE CABINET

Santa Clara Valley Transportation Authority

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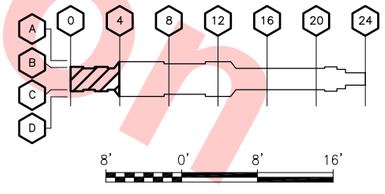
KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

SUBMITTED Skanska Shimmick Herzog — 1436 California Circle, Milpitas, California 95035 — A Joint Venture
LTK Engineering Services
Lockwood, Andrews & Newnam, Inc. — A LEO A DALY COMPANY — T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 1 OF 6

CADD FILENAME		
C700-S-DB-B111.dwg		
SIZE D	SCALE 1/8"=1'-0"	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. B111	PAGE NO. 1043

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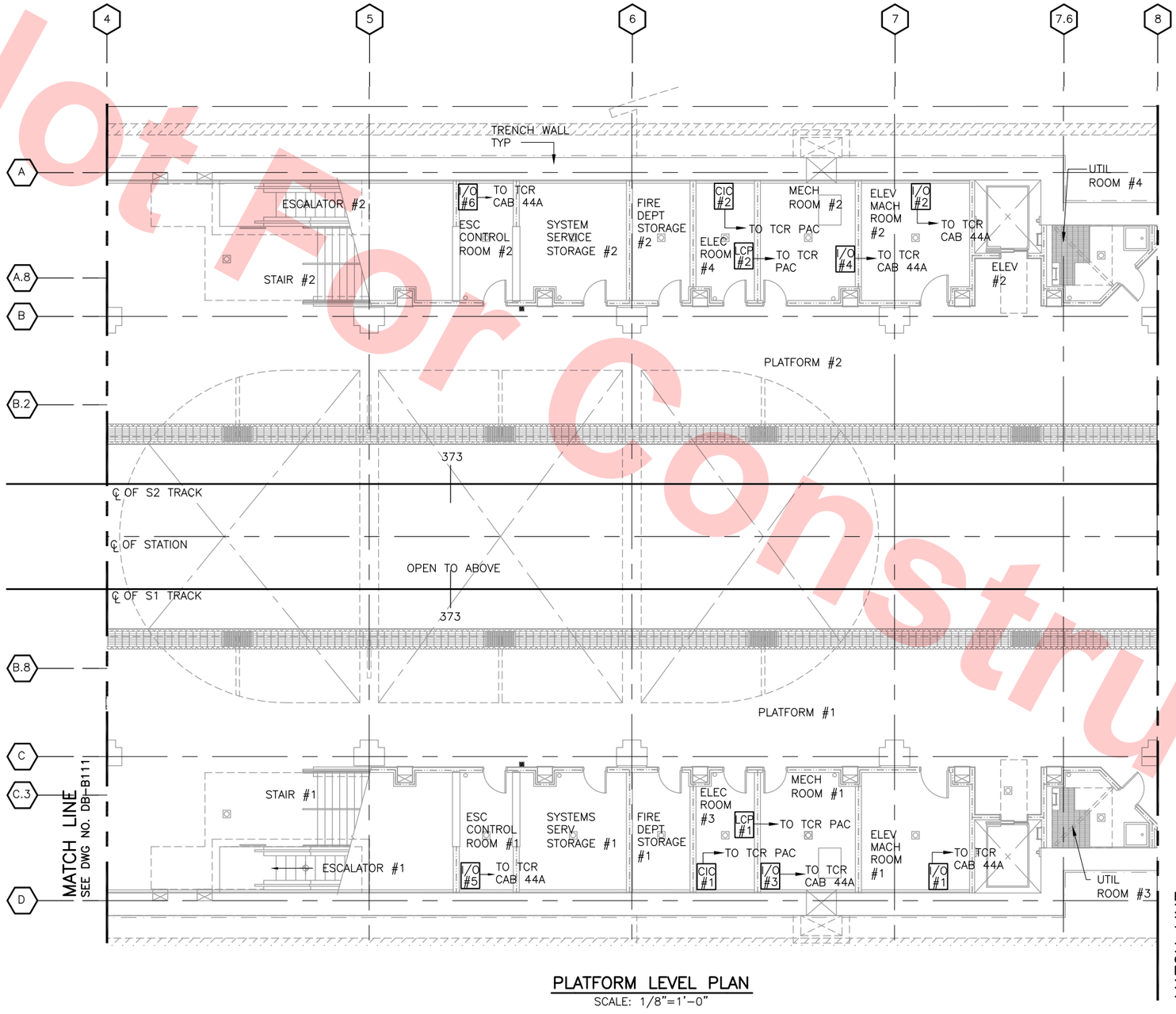
Not For Construction



PLATFORM LEVEL PLAN
SCALE: 1/8"=1'-0"

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- - - →	HIDDEN/BURIED CONDUIT
——→	EXPOSED CONDUIT
CIC	COMMUNICATIONS INTERFACE CABINET
LCP	LIGHTING CONTROL PANEL
I/O	INPUT/OUTPUT TERMINAL BOARD/CABINET
FC	FARE COLLECTION INTERFACE JUNCTION BOX
SAB	STATION AGENT BOOTH CONTROL PANEL
CV	CONTROL VALVE
PTS	PASSENGER TRIP STATION
VCP	VENTILATION CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL
FCP	FAN CONTROL PANEL
DVC	DELUGE VALVE CABINET

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
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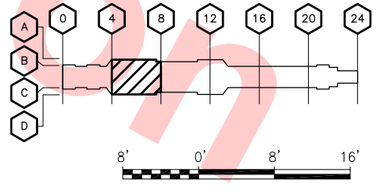
KEY PLAN



GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

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SUBMITTED

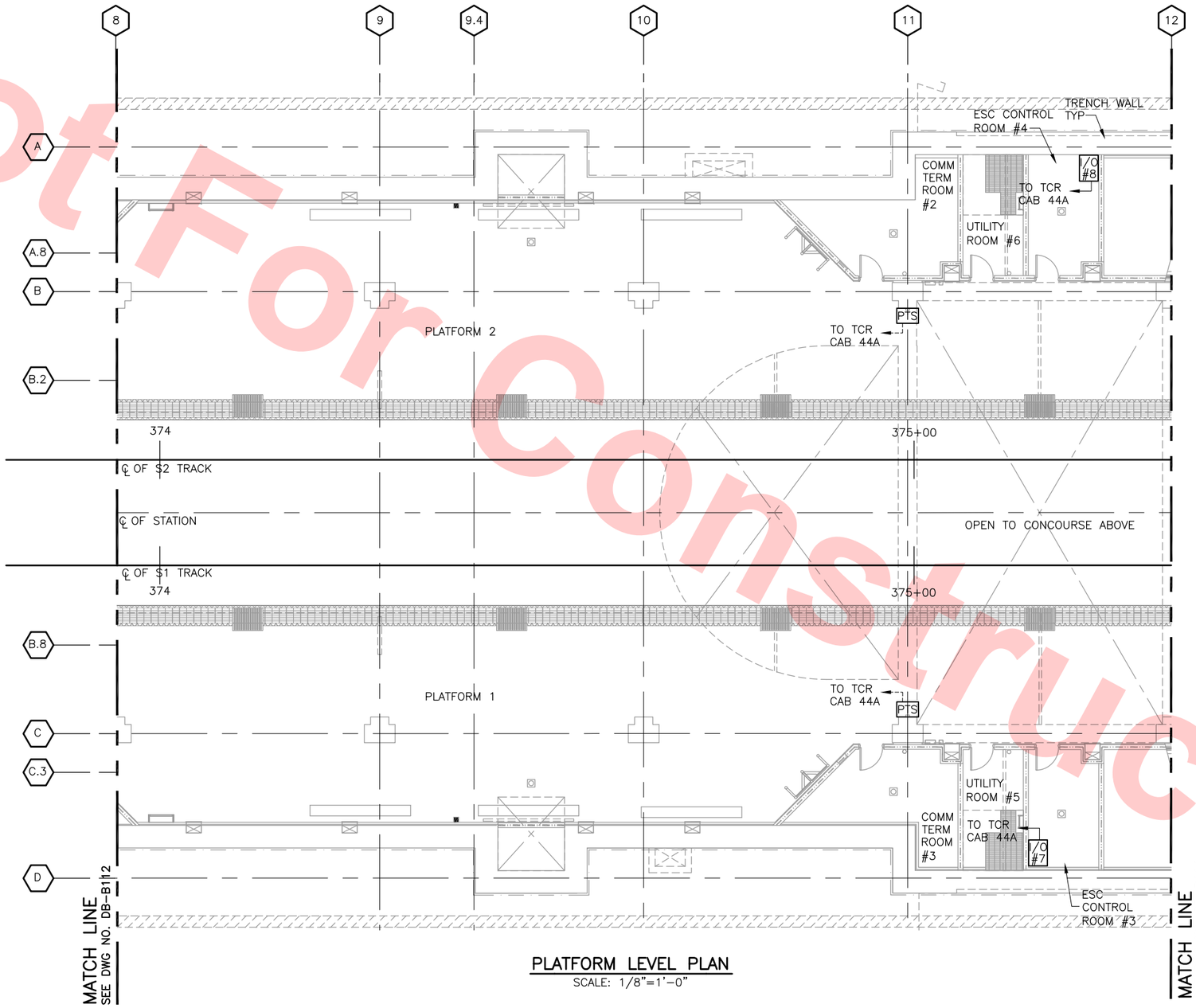
Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 2 OF 6

CADD FILENAME C700-S-DB-B112.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B112 | PAGE NO. 1044

Adam Jun. 20, 2013 - 9:08am C:\projectwise\mbx-ashroa\dms34735\C700-S-DB-B112.DWG



PLATFORM LEVEL PLAN
SCALE: 1/8"=1'-0"

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- - - →	HIDDEN/BURIED CONDUIT
——→	EXPOSED CONDUIT
CIC	COMMUNICATIONS INTERFACE CABINET
LCP	LIGHTING CONTROL PANEL
I/O	INPUT/OUTPUT TERMINAL BOARD/CABINET
FC	FARE COLLECTION INTERFACE JUNCTION BOX
SAB	STATION AGENT BOOTH CONTROL PANEL
CV	CONTROL VALVE
PTS	PASSENGER TRIP STATION
VCP	VENTILATION CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL
FCP	FAN CONTROL PANEL
DVC	DELUGE VALVE CABINET

Santa Clara Valley Transportation Authority

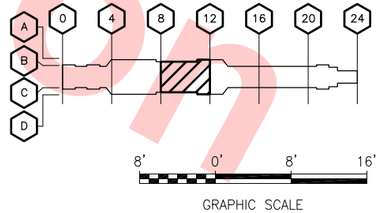
____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

KEY PLAN



GRAPHIC SCALE

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

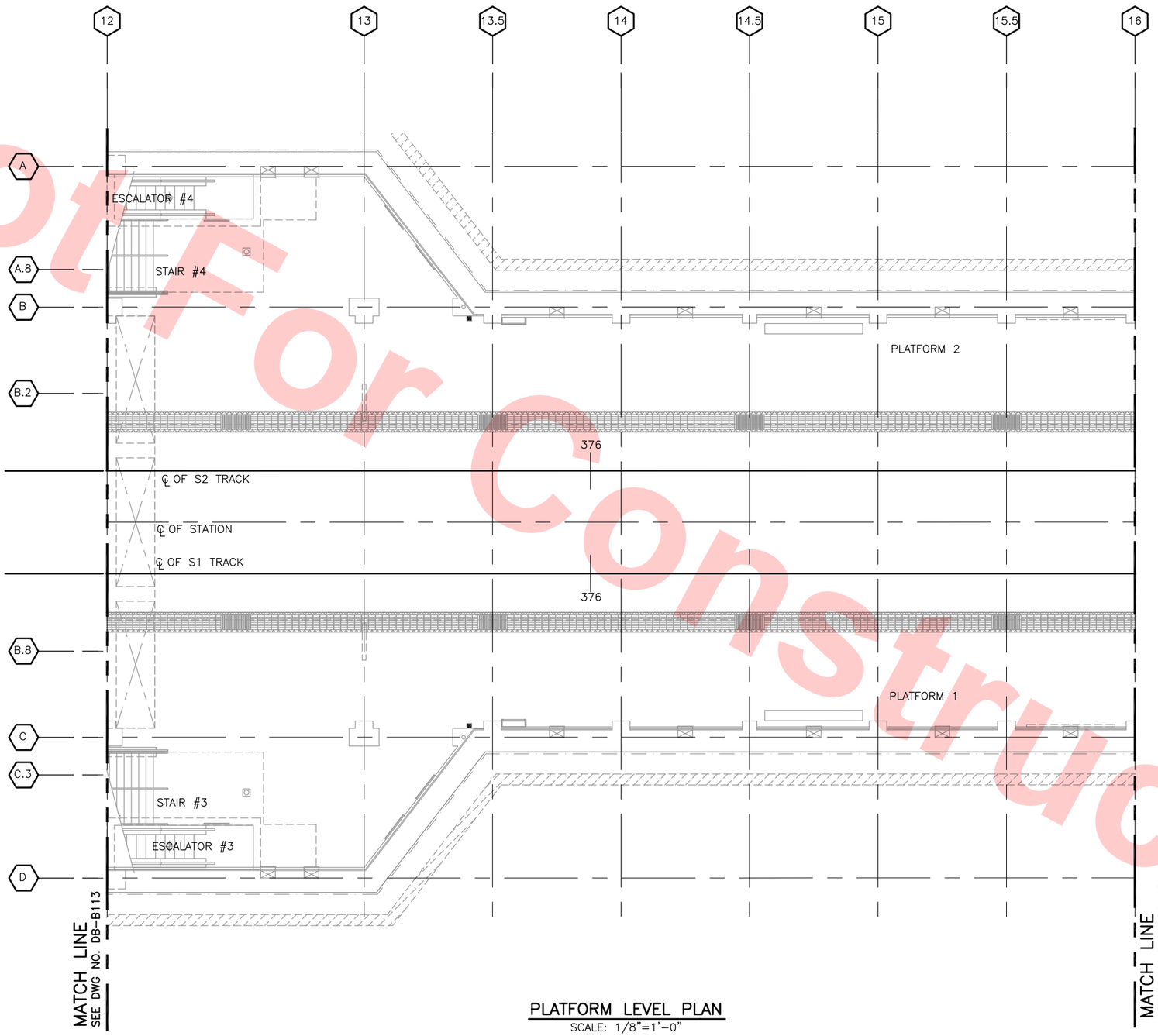
SUBMITTED Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
LTK Engineering Services
Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 3 OF 6

CADD FILENAME C700-S-DB-B113.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B113 | PAGE NO. 1045

Adam Jun 20, 2013 - 9:08am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B113.DWG



PLATFORM LEVEL PLAN
SCALE: 1/8"=1'-0"

NOTE:

THIS DRAWING IS SHOWN FOR STATION CONTINUATION. THERE ARE NO SYSTEMS/COMMUNICATION INTERFACES AT THIS LOCATION.

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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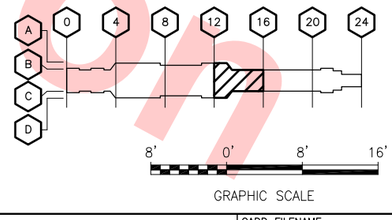
Contract No.: DB11002F

By: _____ Date: _____

KEY PLAN



GRAPHIC SCALE

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BRADLEY A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
Lockwood, Andrews & Newnam, Inc. A HOU X BALL COMPANY
T-Y-LIN INTERNATIONAL

SUBMITTED
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 4 OF 6

CADD FILENAME C700-S-DB-B114.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B114 | PAGE NO. 1046

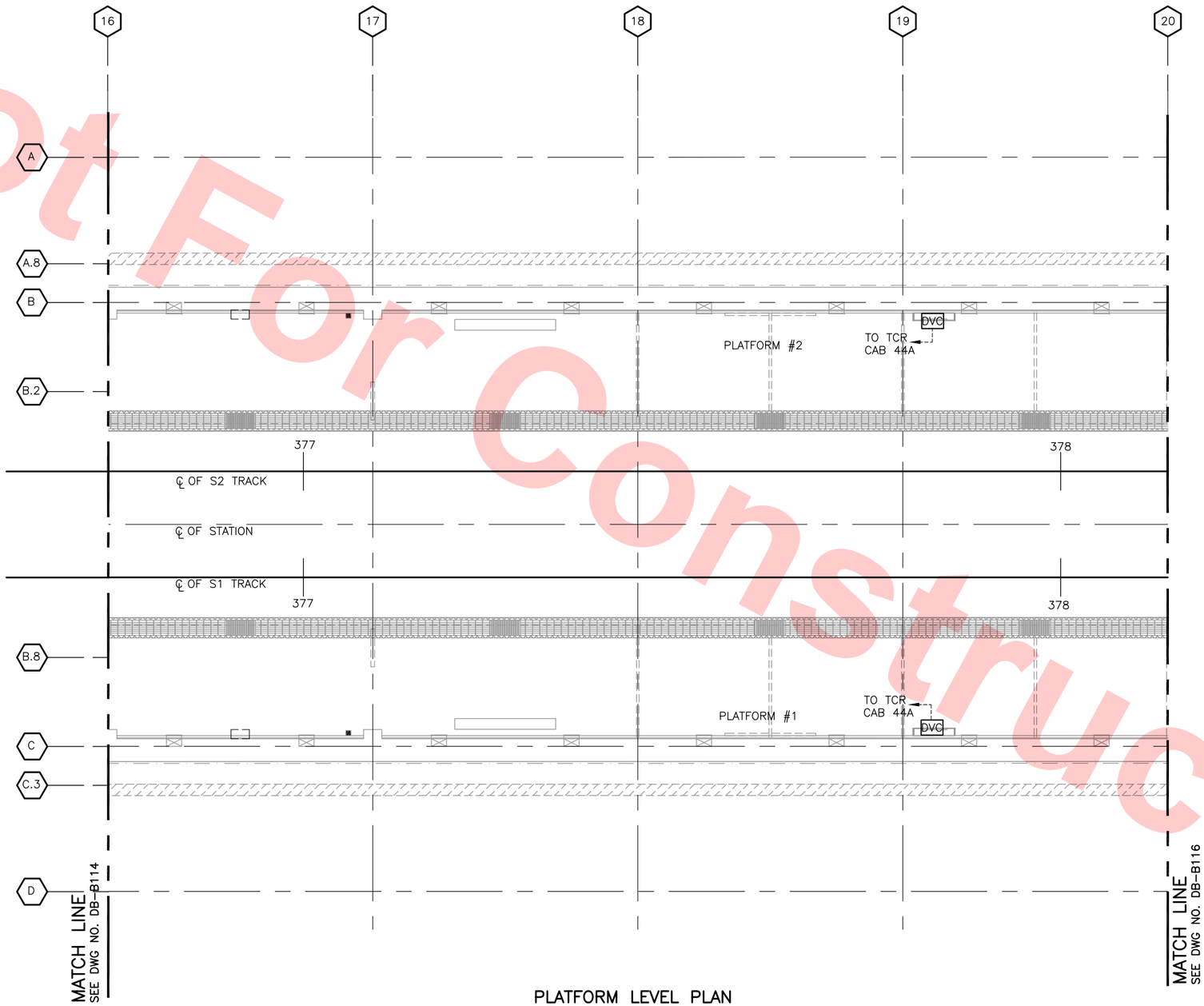
Jun 20, 2013 - 9:08am C:\projectwise\vtabv-ashrode\dms34735\C700-S-DB-B114.DWG
Adam

Not For Construction

NOTES:
1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- HIDDEN/BURIED CONDUIT
- EXPOSED CONDUIT
- CIC — COMMUNICATIONS INTERFACE CABINET
- LCP — LIGHTING CONTROL PANEL
- I/O — INPUT/OUTPUT TERMINAL BOARD/CABINET
- FC — FARE COLLECTION INTERFACE JUNCTION BOX
- SAB — STATION AGENT BOOTH CONTROL PANEL
- CV — CONTROL VALVE
- PTS — PASSENGER TRIP STATION
- VCP — VENTILATION CONTROL PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FCP — FAN CONTROL PANEL
- DVC — DELUGE VALVE CABINET



PLATFORM LEVEL PLAN
SCALE: 1/8"=1'-0"

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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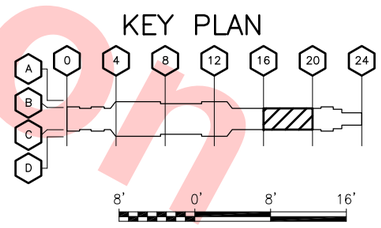
Contract No.: DB11002F

By: _____ Date: _____

KEY PLAN



GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M .GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — ELECTRICAL — E19639 EXP. 09-30-13 — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

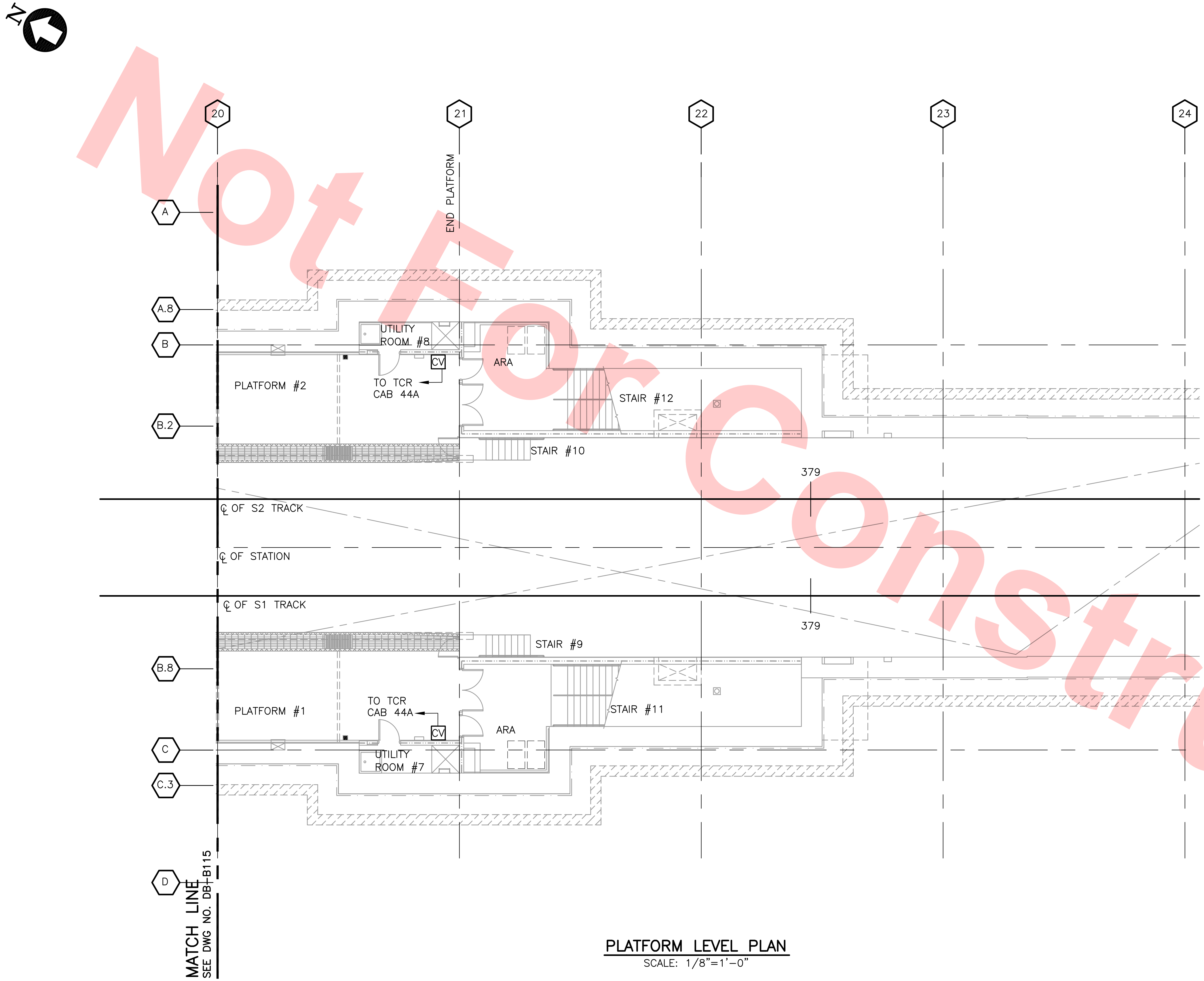
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 5 OF 6

CADD FILENAME C700-S-DB-B115.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B115 | PAGE NO. 1047

Jun 20, 2013 - 9:08am C:\projectwise\mtw-ashroden\dms34735\C700-S-DB-B115.DWG
Adam

Not For Construction



PLATFORM LEVEL PLAN

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

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- - - - ►	HIDDEN/BURIED CONDUIT
——— ►	EXPOSED CONDUIT
CIC	COMMUNICATIONS INTERFACE CABINET
LCP	LIGHTING CONTROL PANEL
I/O	INPUT/OUTPUT TERMINAL BOARD/CABINET
FC	FARE COLLECTION INTERFACE JUNCTION BOX
SAB	STATION AGENT BOOTH CONTROL PANEL
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PTS	PASSENGER TRIP STATION
VCP	VENTILATION CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL
FCP	FAN CONTROL PANEL
DVC	DELUGE VALVE CABINET

Santa Clara Valley Transportation Authority

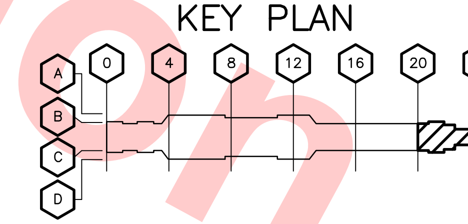
____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: ____________ Date: ____________

KEY PLAN



8' 0' 8' 16'

GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA — ELECTRICAL — E19639 — EXP. 09-30-13

Skanska Shimmick Herzog — 1436 California Circle, Milpitas, California 95035 — A Joint Venture

LTK Engineering Services

SUBMITTED

Lockwood, Andrews & Newnam, Inc. — T·Y·LIN INTERNATIONAL

APPROVED

VTA — BART SILICON VALLEY

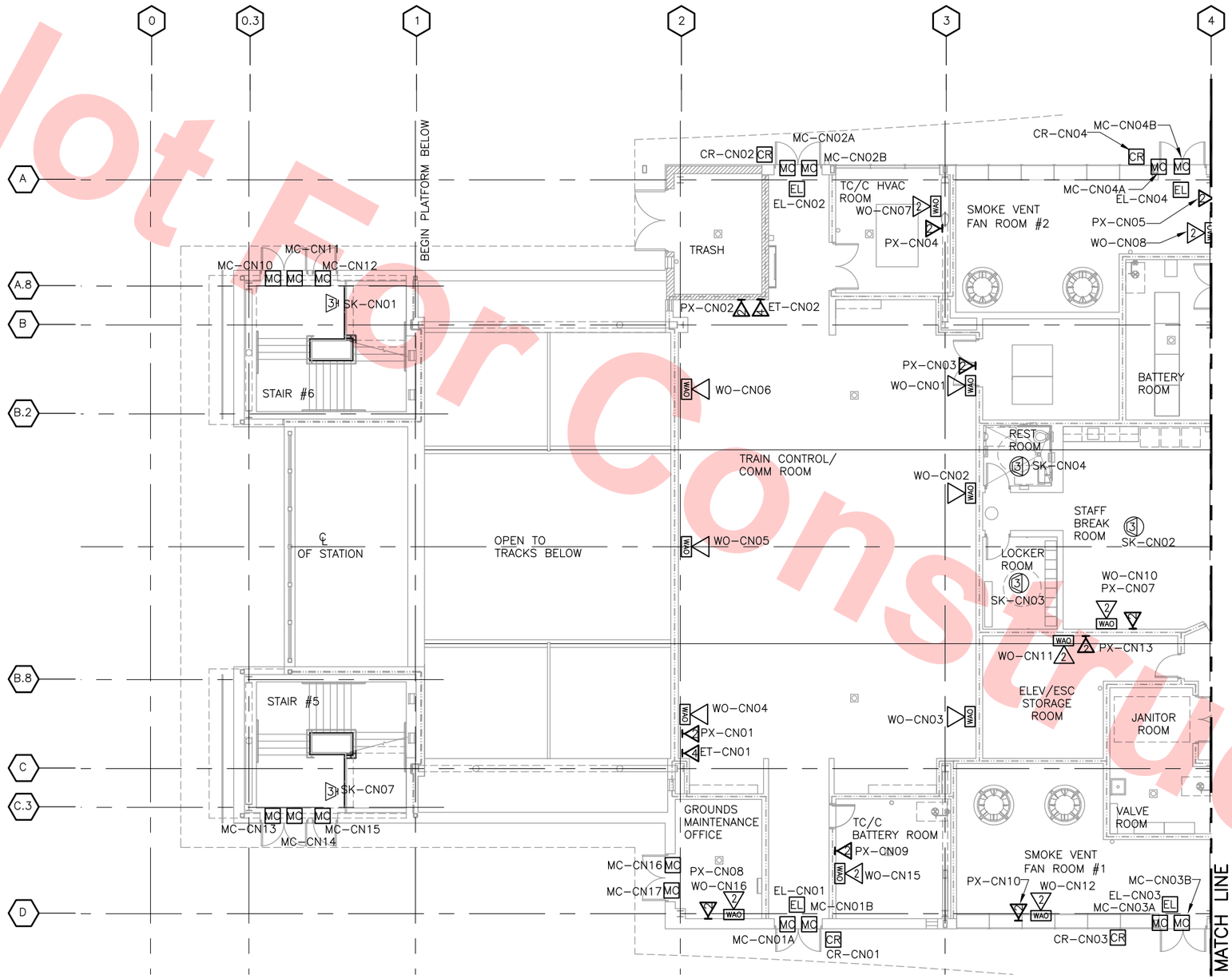
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
BOARDING PLATFORM LEVEL PLAN
SHEET 6 OF 6

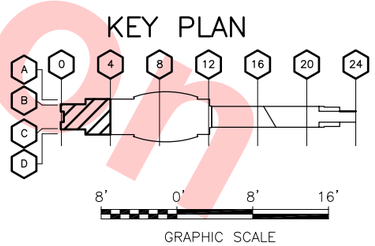
CADD FILENAME C700-S-DB-B116.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B116 | PAGE NO. 1048

Adam Jun 26, 2013 - 1:13pm C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B116.dwg

Not For Construction



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'-0"



Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
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____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19839 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 1 OF 6

CADD FILENAME		
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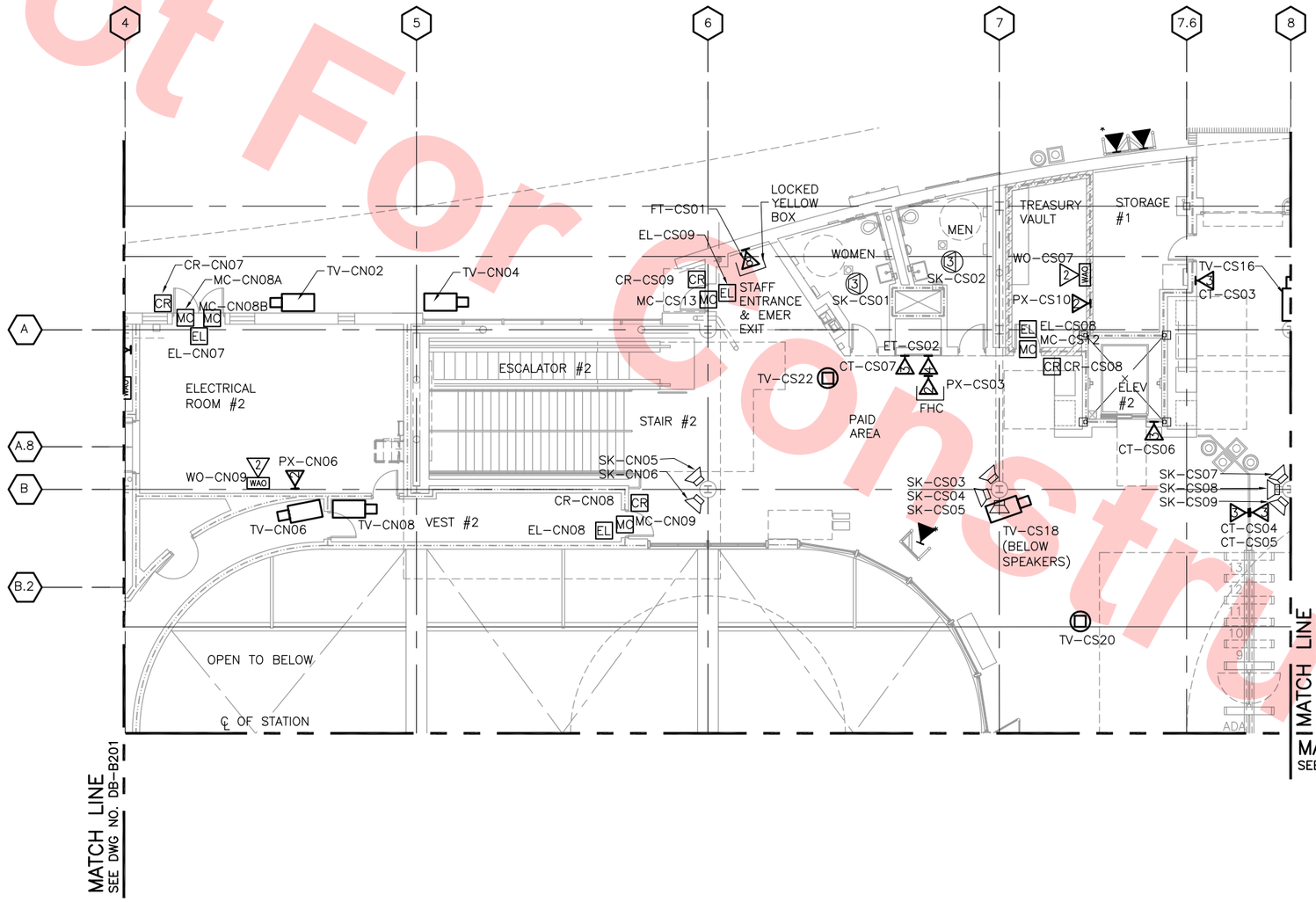
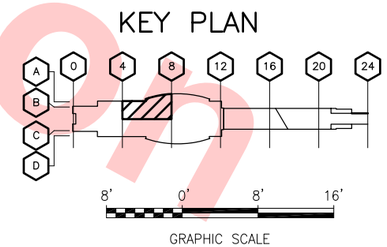
SIZE D	SCALE 1/8"=1'-0"	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. B201	PAGE NO. 1049

Adam Jun. 20, 2013 - 9:10am C:\projectwise\mbx-stbrode\dms34735\C700-S-DB-B201.DWG

Not For Construction



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'–0"



Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 2 OF 6

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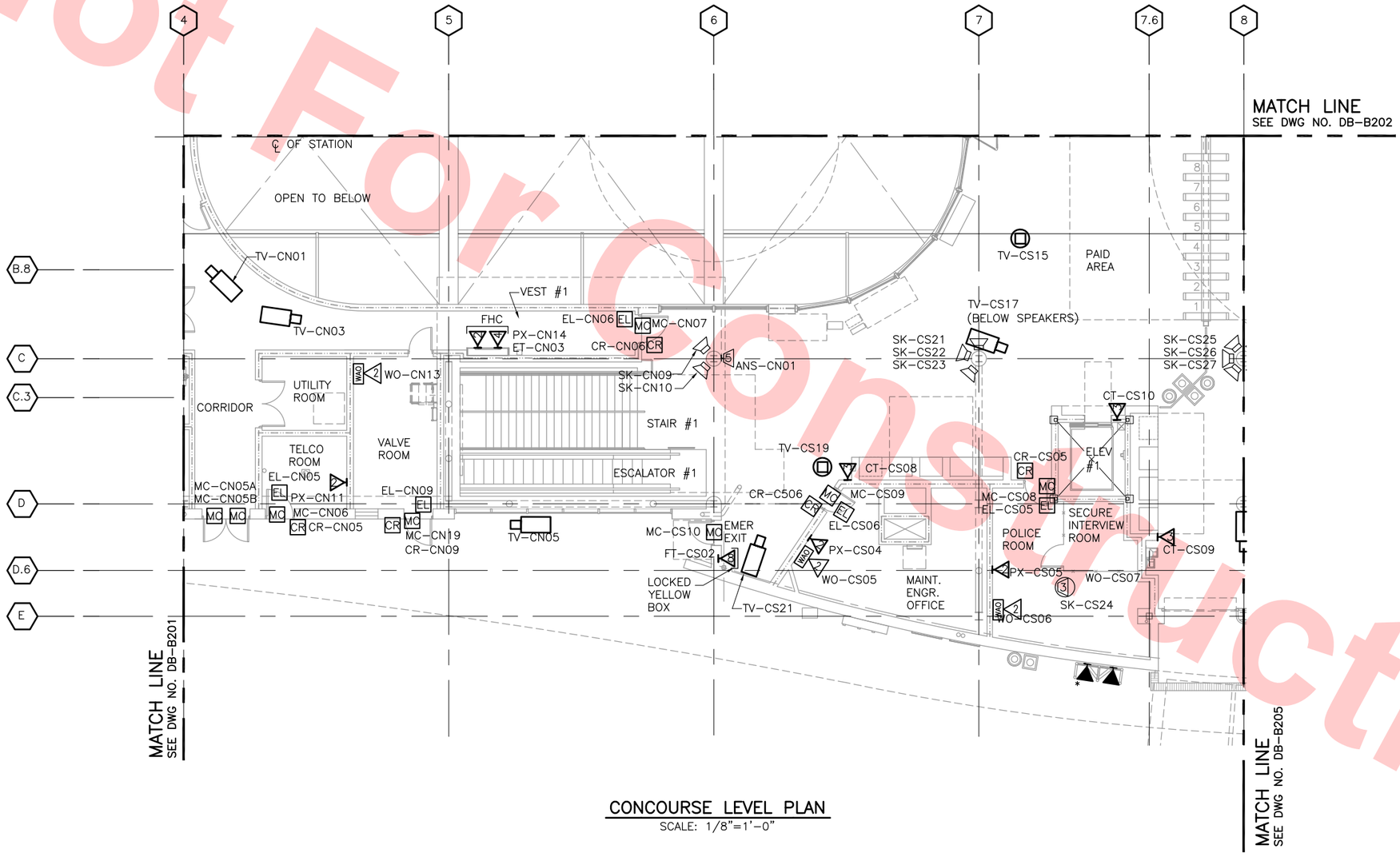
AREA CODE DB | SHEET NO. B202 | PAGE NO. 1050

Jun 20, 2013 – 9:11am C:\projectwise\mtx–ashrode\dms34735\C700–S–DB–B202.DWG
Adam

Not For Construction



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'–0"

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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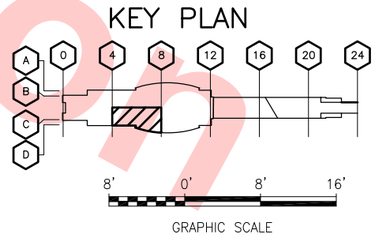
Contract No.: DB11002F

By: _____ Date: _____

KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 3 OF 6

CADD FILENAME C700–S–DB–B203.dwg
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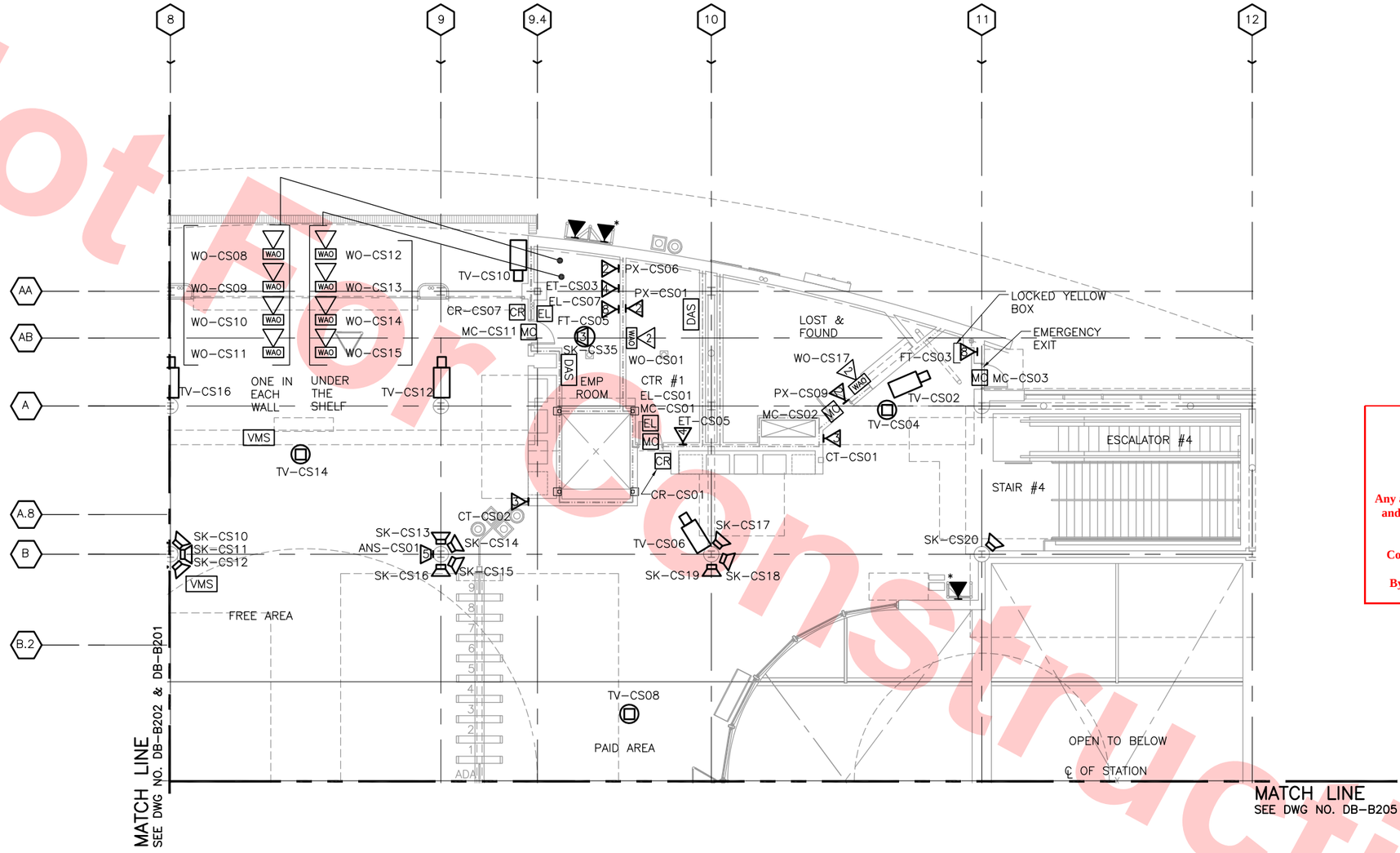
Adam Jun 20, 2013 – 9:12am C:\projectwise\mbx–ashrode\dms34735\C700–S–DB–B203.DWG



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'–0"

Not For Construction

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
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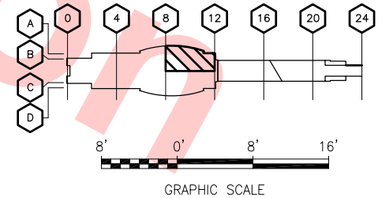
Contract No.: DB11002F

By: _____ Date: _____

KEY PLAN



GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

SUBMITTED Skanska Shimmick Herzog — 1436 California Circle, Milpitas, California 95035 — A Joint Venture
LTK Engineering Services
Lockwood, Andrews & Newnam, Inc. — A LEO A DALY COMPANY — T·Y·LIN INTERNATIONAL
APPROVED

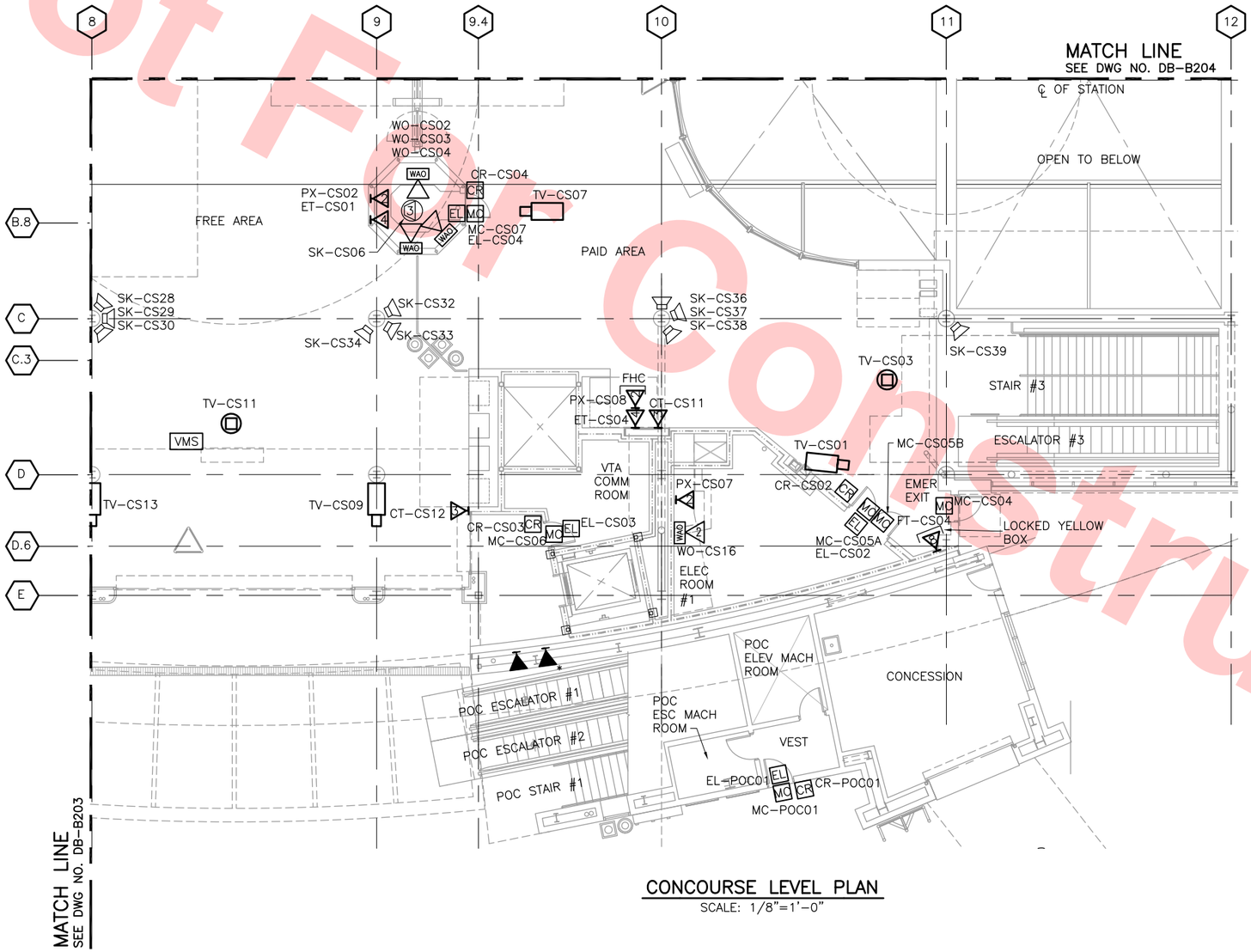
VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 4 OF 6

CADD FILENAME C700–S–DB–B204.dwg
SIZE D | SCALE 1/8"=1'–0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B204 | PAGE NO. 1052

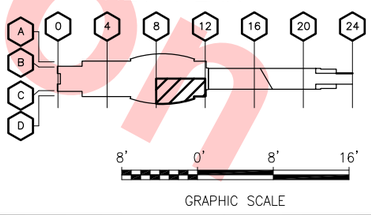
Adam Jun 20, 2013 – 9:13am C:\projectwise\mbx–ashrode\dms34735\C700–S–DB–B204.DWG

Not For Construction



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'-0"

KEY PLAN



GRAPHIC SCALE

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ **Date:** _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL

SUBMITTED _____
APPROVED _____

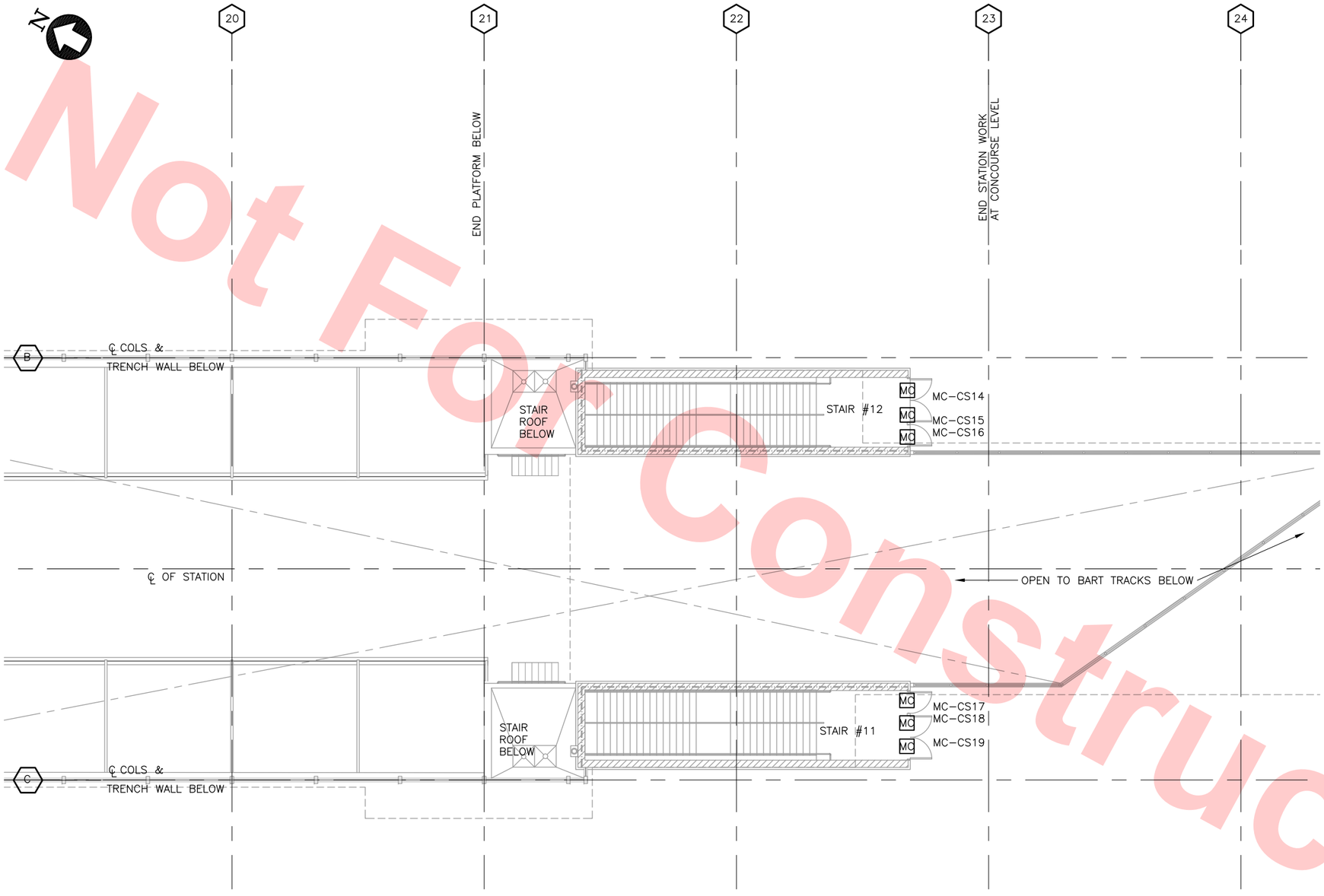
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 5 OF 6

CADD FILENAME C700-S-DB-B205.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B205 | PAGE NO. 1053

Jun 27, 2013 - 12:04pm C:\projectwise\mbx-stbrode\dms34735\C700-S-DB-B205.dwg
Adam

Not For Construction



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'–0"

Santa Clara Valley Transportation Authority

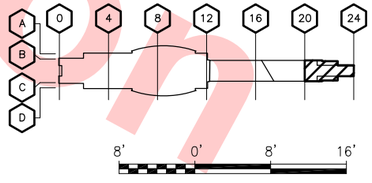
____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y LIN INTERNATIONAL

SUBMITTED _____

APPROVED _____

VTA BART SILICON VALLEY

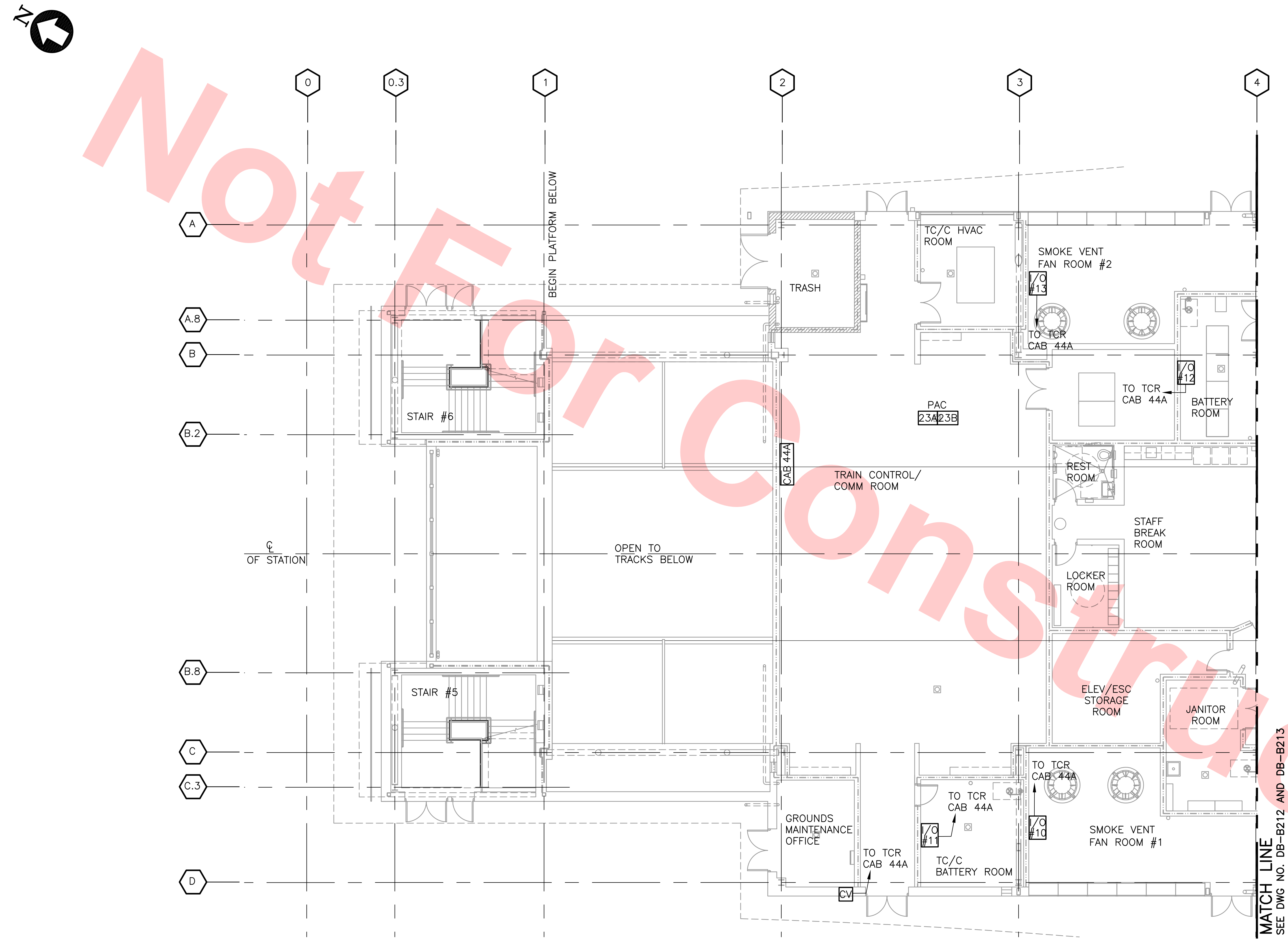
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 6 OF 6

CADD FILENAME		
C700–S–DB–B206.dwg		
SIZE D	SCALE 1/8"=1'–0"	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. B206	PAGE NO. 1054

Adsm Jun 20, 2013 – 9:16am C:\projectwise\mtx-ashrode\dms34735\C700-S-DB-B206.DWG

Not For Construction



CONCOURSE LEVEL PLAN

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

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- - - - →	HIDDEN/BURIED CONDUIT
——→	EXPOSED CONDUIT
CIC	COMMUNICATIONS INTERFACE CABINET
LCP	LIGHTING CONTROL PANEL
I/O	INPUT/OUTPUT TERMINAL BOARD/CABINET
FC	FARE COLLECTION INTERFACE JUNCTION BOX
SAB	STATION AGENT BOOTH CONTROL PANEL
CV	CONTROL VALVE
PTS	PASSENGER TRIP STATION
VCP	VENTILATION CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL
FCP	FAN CONTROL PANEL
DVC	DELUGE VALVE CABINET

Santa Clara Valley Transportation Authority

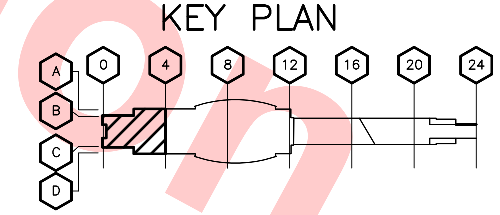
____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: ____________ Date: ____________

KEY PLAN



8' 0' 8' 16'

GRAPHIC SCALE

Jun 20, 2013 - 9:17am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B211.DWG Adam

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog — A Joint Venture — 1436 California Circle, Milpitas, California 95035

LTK Engineering Services — SUBMITTED

Lockwood, Andrews & Newnam, Inc. — T·Y·LIN INTERNATIONAL — APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 1 OF 6

CADD FILENAME C700-S-DB-B211.dwg
SIZE D
SCALE 1/8"=1'-0"
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. B211
PAGE NO. 1055

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- - - - ►	HIDDEN/BURIED CONDUIT
——►	EXPOSED CONDUIT
CIC	COMMUNICATIONS INTERFACE CABINET
LCP	LIGHTING CONTROL PANEL
I/O	INPUT/OUTPUT TERMINAL BOARD/CABINET
FC	FARE COLLECTION INTERFACE JUNCTION BOX
SAB	STATION AGENT BOOTH CONTROL PANEL
CV	CONTROL VALVE
PTS	PASSENGER TRIP STATION
VCP	VENTILATION CONTROL PANEL
FACP	FIRE ALARM CONTROL PANEL
FCP	FAN CONTROL PANEL
DVC	DELUGE VALVE CABINET
SAT	STATION AGENT TERMINAL

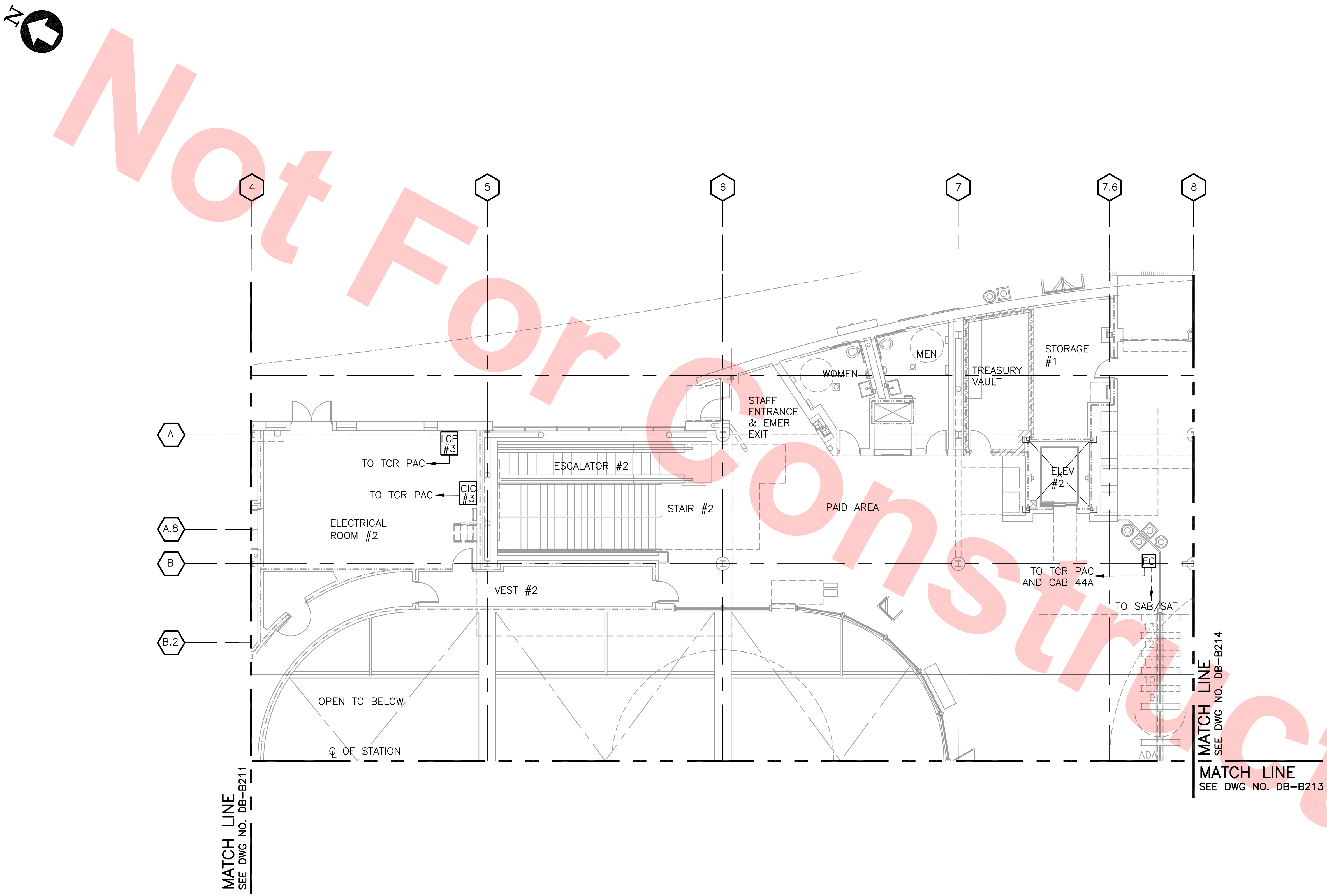
Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

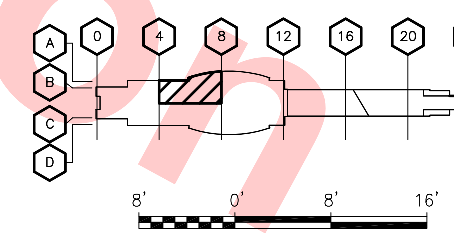
By: ______ Date: ______



CONCOURSE LEVEL PLAN

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

KEY PLAN



GRAPHIC SCALE

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. | T·Y·LIN INTERNATIONAL
APPROVED

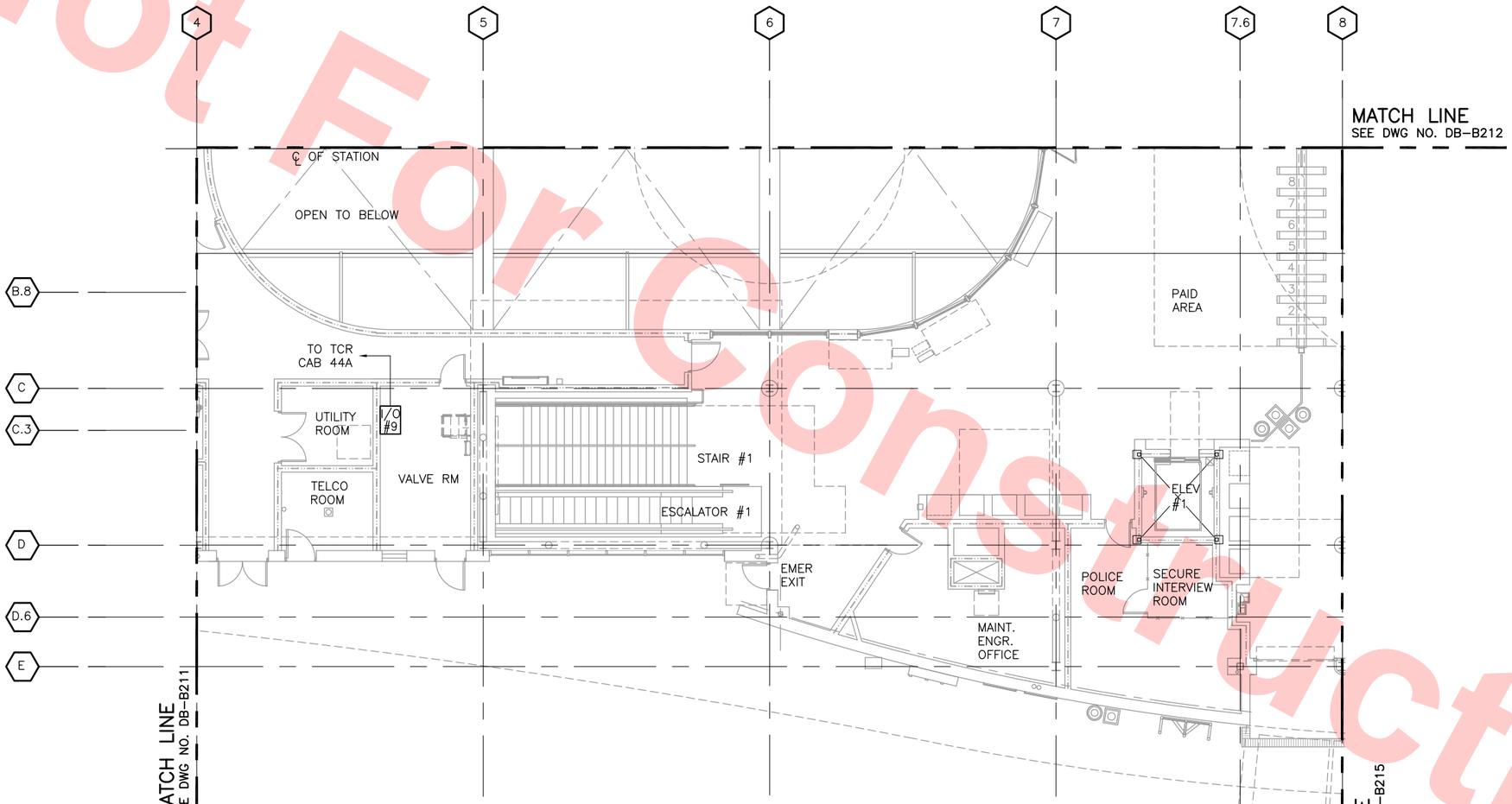
VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 2 OF 6

CADD FILENAME C700-S-DB-B212.dwg
SIZE D
SCALE 1/8"=1'-0"
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. B212
PAGE NO. 1056

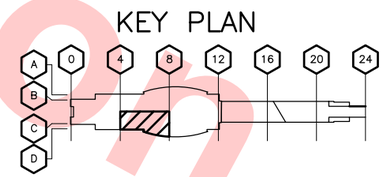
Adam Jun 20, 2013 - 9:19am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B212.DWG

Not For Construction



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'–0"

KEY PLAN



GRAPHIC SCALE

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED ELECTRICAL ENGINEER — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

SUBMITTED LTK Engineering Services

APPROVED Lockwood, Andrews & Newnam, Inc. A LINO V. SALY COMPANY — T·Y·LIN INTERNATIONAL

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 3 OF 6

CADD FILENAME		
C700–S–DB–B213.dwg		
SIZE D	SCALE 1/8"=1'–0"	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. B213	PAGE NO. 1057

Jun 20, 2013 - 9:20am C:\projectwise\mbx-ostrode\dms34735\C700-S-DB-B213.DWG
Adam

Not For Construction

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- HIDDEN/BURIED CONDUIT
- EXPOSED CONDUIT
- CIC — COMMUNICATIONS INTERFACE CABINET
- LCP — LIGHTING CONTROL PANEL
- I/O — INPUT/OUTPUT TERMINAL BOARD/CABINET
- FC — FARE COLLECTION INTERFACE JUNCTION BOX
- SAB — STATION AGENT BOOTH CONTROL PANEL
- CV — CONTROL VALVE
- PTS — PASSENGER TRIP STATION
- VCP — VENTILATION CONTROL PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FCP — FAN CONTROL PANEL
- DVC — DELUGE VALVE CABINET
- SAT — STATION AGENT TERMINAL

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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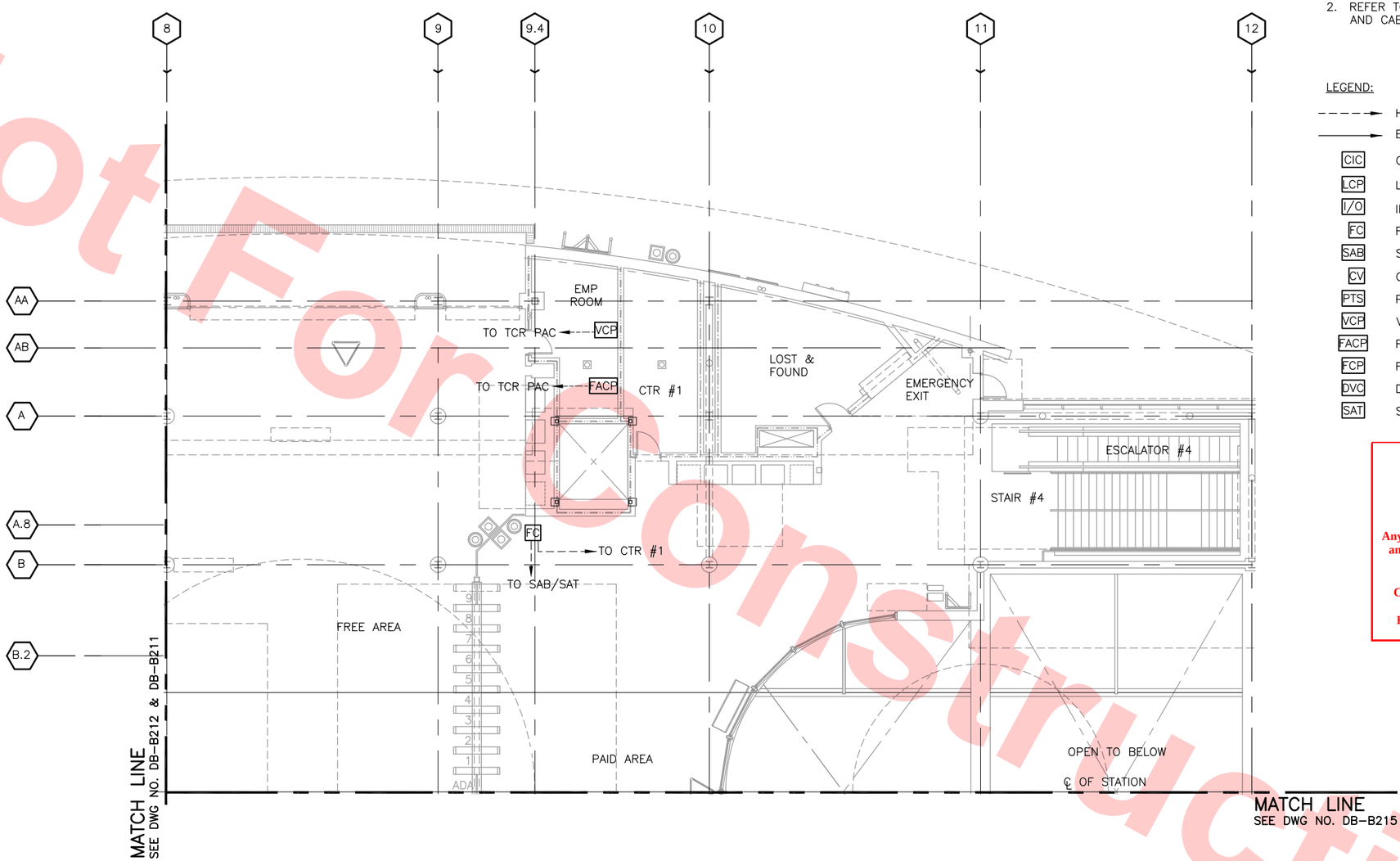
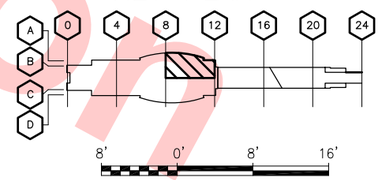
Contract No.: DB11002F

By: _____ Date: _____



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'-0"

KEY PLAN



GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA No. E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y LIN INTERNATIONAL
APPROVED Ray Hollenbeck

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 4 OF 6

CADD FILENAME C700-S-DB-B214.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B214 | PAGE NO. 1058

Adam Jun 20, 2013 - 9:21am C:\projectwise\mbx-asbrode\dms34735\C700-S-DB-B214.DWG

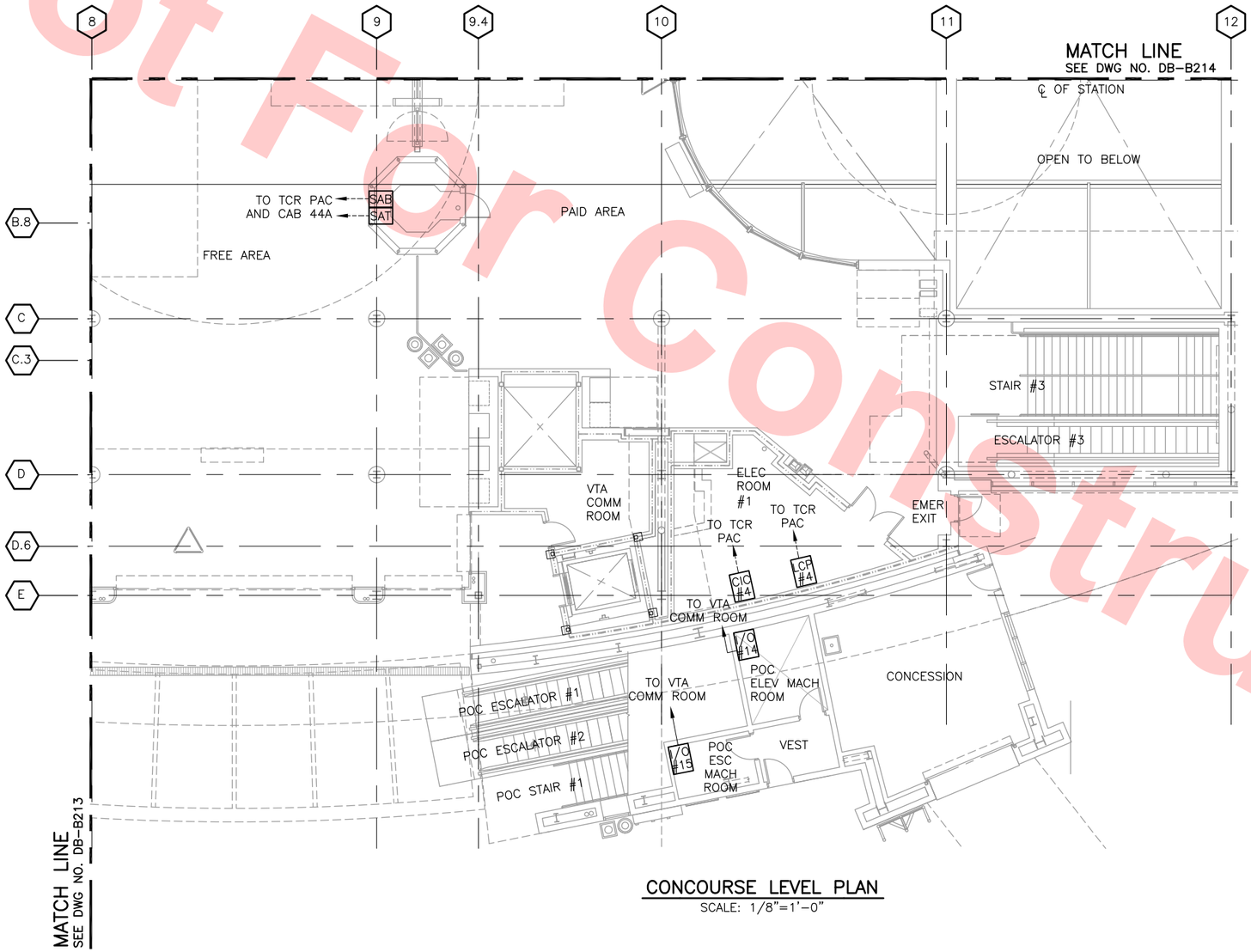
Not For Construction

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

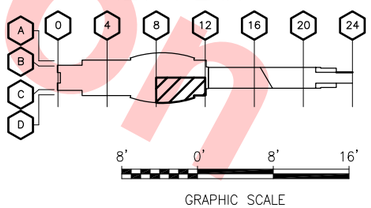
LEGEND:

- HIDDEN/BURIED CONDUIT
- EXPOSED CONDUIT
- CIC — COMMUNICATIONS INTERFACE CABINET
- LCP — LIGHTING CONTROL PANEL
- I/O — INPUT/OUTPUT TERMINAL BOARD/CABINET
- FC — FARE COLLECTION INTERFACE JUNCTION BOX
- SAB — STATION AGENT BOOTH CONTROL PANEL
- CV — CONTROL VALVE
- PTS — PASSENGER TRIP STATION
- VCP — VENTILATION CONTROL PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FCP — FAN CONTROL PANEL
- DVC — DELUGE VALVE CABINET
- SAT — STATION AGENT TERMINAL



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'-0"

KEY PLAN



GRAPHIC SCALE

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED ELECTRICAL ENGINEER — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

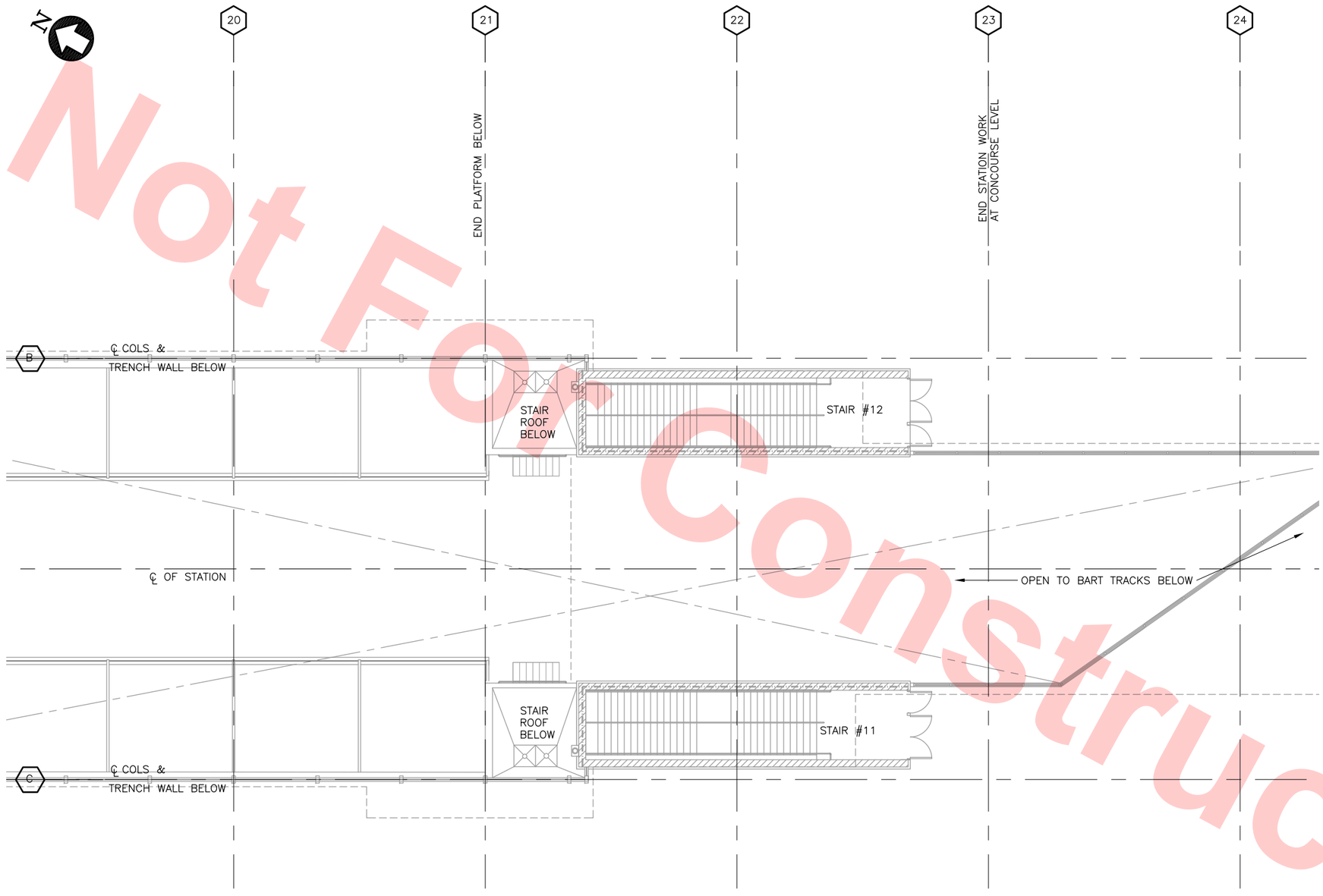
Lockwood, Andrews & Newnam, Inc. — A URS X BALL COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 5 OF 6

CADD FILENAME C700-S-DB-B215.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B215 | PAGE NO. 1059

Jun 27, 2013 - 12:14pm C:\projectwise\vbx-ashrode\dms34735\C700-S-DB-B215.dwg
Adam



NOTE:

1. THIS DRAWING IS SHOWN FOR STATION CONTINUATION. THERE ARE NO SYSTEMS/COMMUNICATION INTERFACES AT THIS LOCATION

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

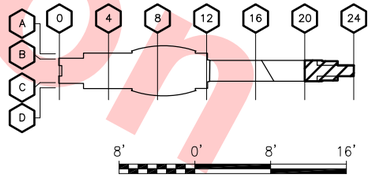
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

KEY PLAN



CONCOURSE LEVEL PLAN
SCALE: 1/8"=1'-0"

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

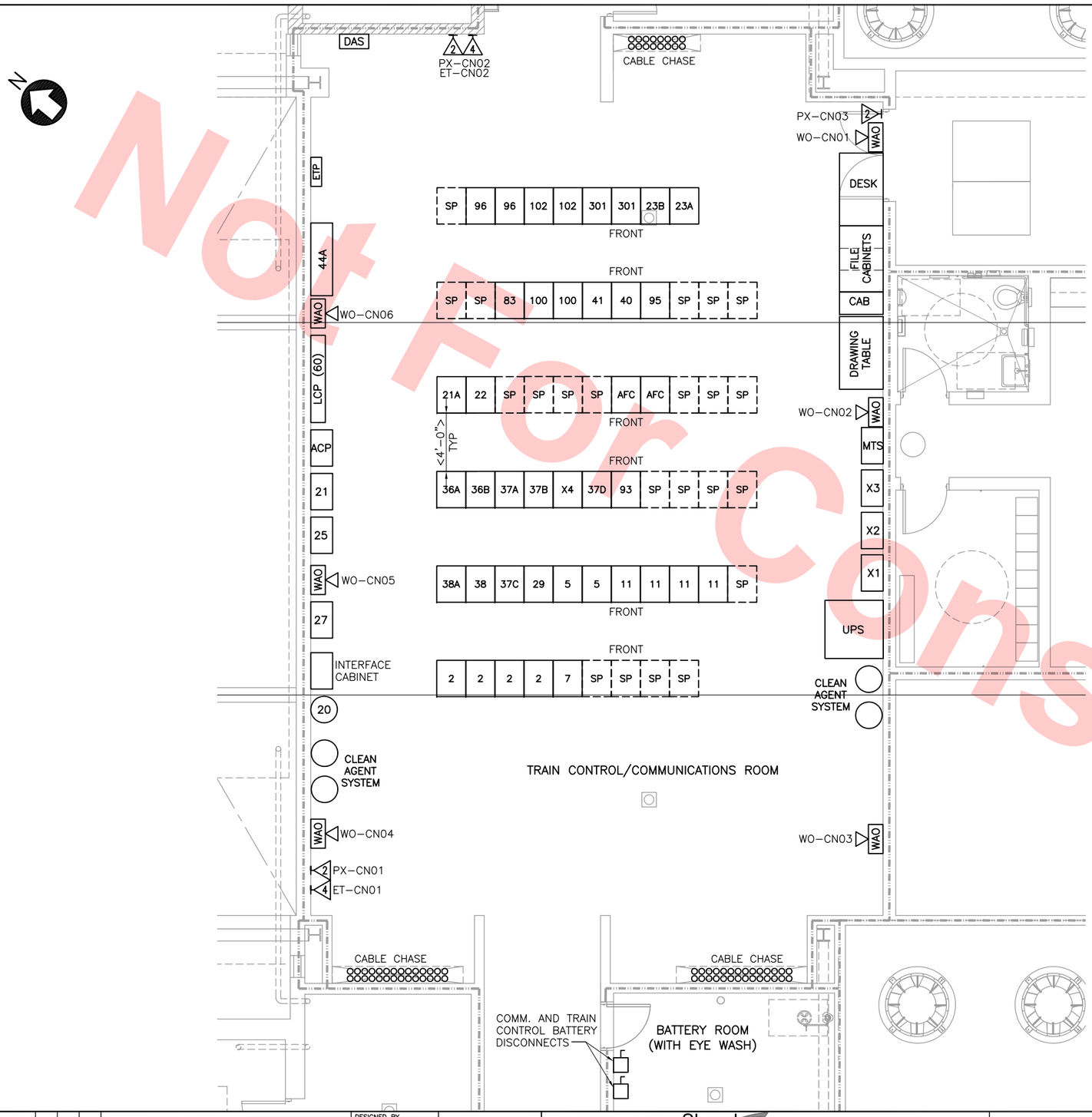
Lockwood, Andrews & Newnam, Inc. — A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
SCADA INTEGRATION EQUIPMENT LAYOUT
CONCOURSE LEVEL PLAN
SHEET 6 OF 6

CADD FILENAME		
C700-S-DB-B216.dwg		
SIZE D	SCALE 1/8"=1'-0"	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. B216	PAGE NO. 1060

Adsm Jun 20, 2013 - 9:24am C:\projectwise\mtx-ashrode\dms34735\C700-S-DB-B216.DWG



NOTES:

1. THE TRAIN CONTROL AND COMMUNICATIONS EQUIPMENT ARRANGEMENT HAS BEEN SHOWN TO INDICATE THE EXPECTED EXTENT OF THIS EQUIPMENT IN THE TRAIN CONTROL ROOM AND THE ARRANGEMENT IS PRELIMINARY.
2. CABINET DESIGNATIONS ARE SHOWN ON DRAWING DB–X020.
3. SUPPLEMENTAL RADIO COVERAGE TO BE FURTHER DEFINED.

LEGEND:

DAS — DISTRIBUTED ANTENNA SYSTEM

FUTURE CABINET

< > — MINIMUM DIMENSION

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

4' 0' 4' 8'

GRAPHIC SCALE

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — RICHARD A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. — A CH2M HILL COMPANY

T·Y·LIN INTERNATIONAL

APPROVED

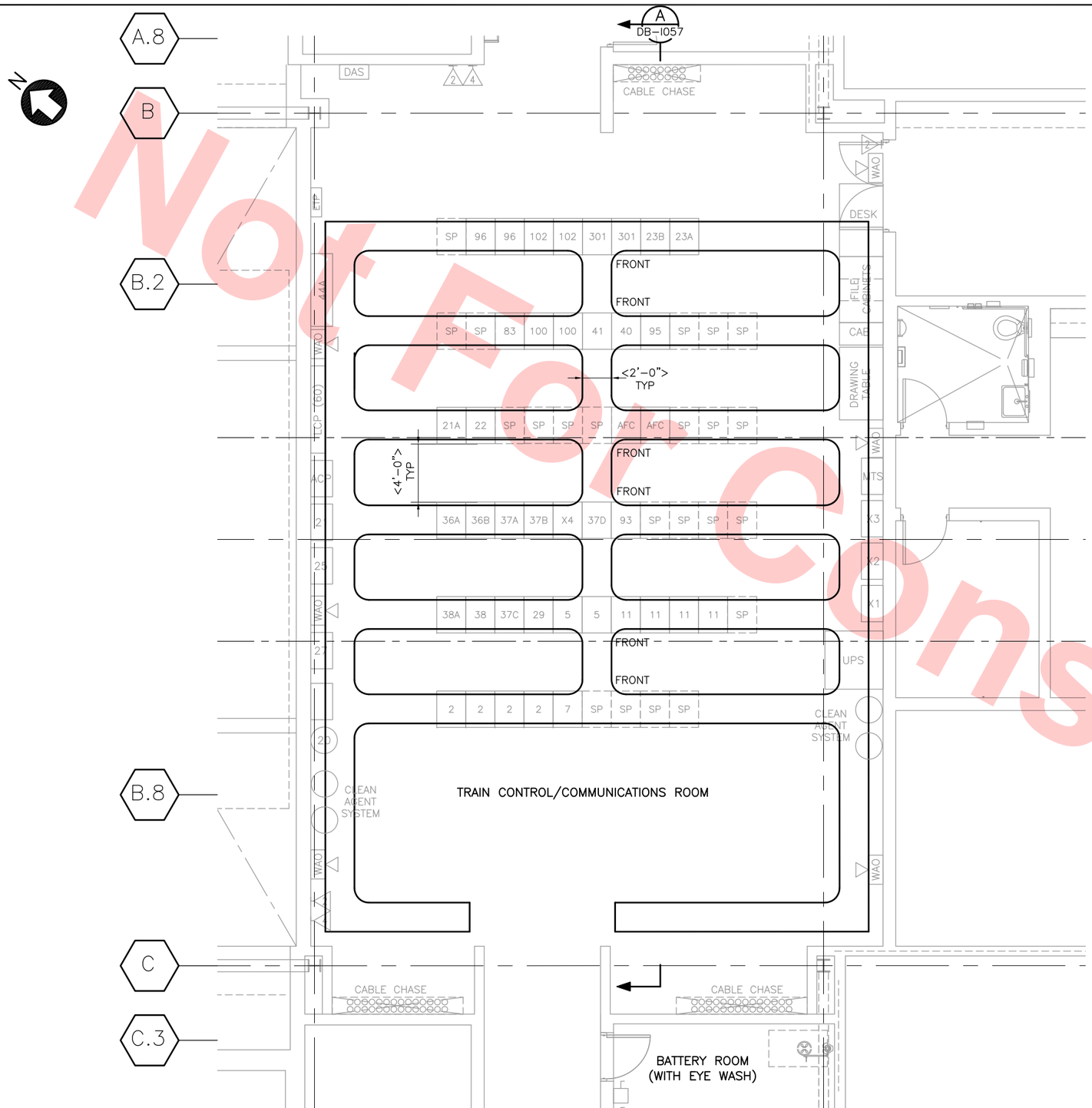
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION

EQUIPMENT ARRANGEMENT
TRAIN CONTROL/COMMUNICATIONS ROOM

CADD FILENAME C700–S–DB–I055.dwg
SIZE D | SCALE 1/4"=1'–0
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. I055 | PAGE NO. 1061

Jun 20, 2013 - 9:31am C:\projectwise\mtxv-cabrode\dms34735\C700-S-DB-I055.DWG
Admin



Not For Construction

NOTES:

1. THE TRAIN CONTROL AND COMMUNICATIONS EQUIPMENT ARRANGEMENT WILL BE CONFIRMED AT FINAL DESIGN.
2. CABINET DESIGNATIONS ARE SHOWN ON DRAWING DB–X020.

LEGEND:

DAS	DISTRIBUTED ANTENNA SYSTEM
▭	FUTURE CABINET
< >	MINIMUM DIMENSION

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ **Date:** _____

4' 0' 4' 8'
GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — E19639 EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

SUBMITTED LTK Engineering Services (LTK) — Skanska Shimmick Herzog, 1436 California Circle, Milpitas, California 95035, A Joint Venture

APPROVED Lockwood, Andrews & Newnam, Inc. (A LEO A DALY COMPANY) — T-Y-LIN INTERNATIONAL

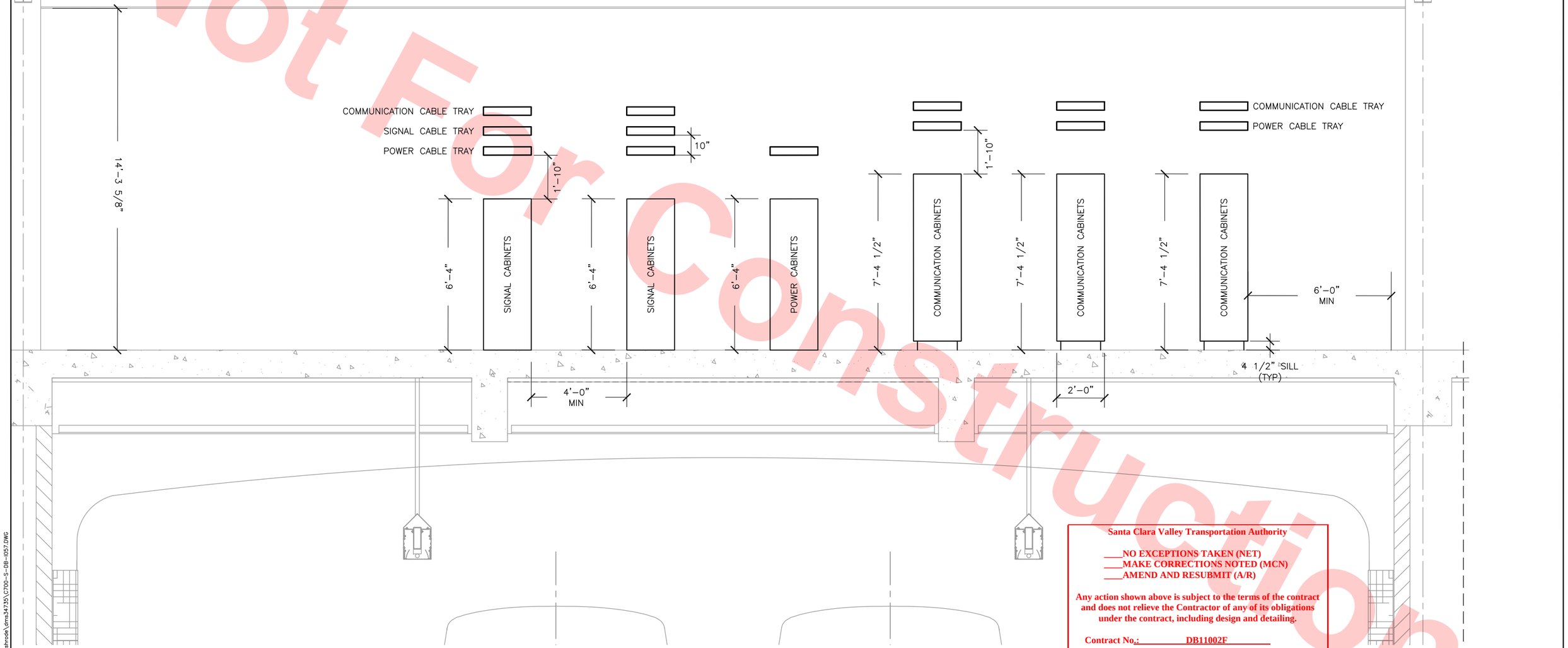
VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023
MILPITAS STATION
CABLE TRAY ARRANGEMENT
TRAIN CONTROL/COMMUNICATIONS ROOM

CADD FILENAME C700–S–DB–I056.dwg
SIZE D | SCALE 1/4"=1'–0
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. I056 | PAGE NO. 1062

Jun 20, 2013 - 9:32am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-I056.DWG
Adam

Not For Construction



SECTION A
SCALE: 1/2" = 1'-0" DB-I057

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

1' 0' 1' 2' 3' 4' 5'
GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BERTRAM A. MENDEZ LORA 519639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL

APPROVED

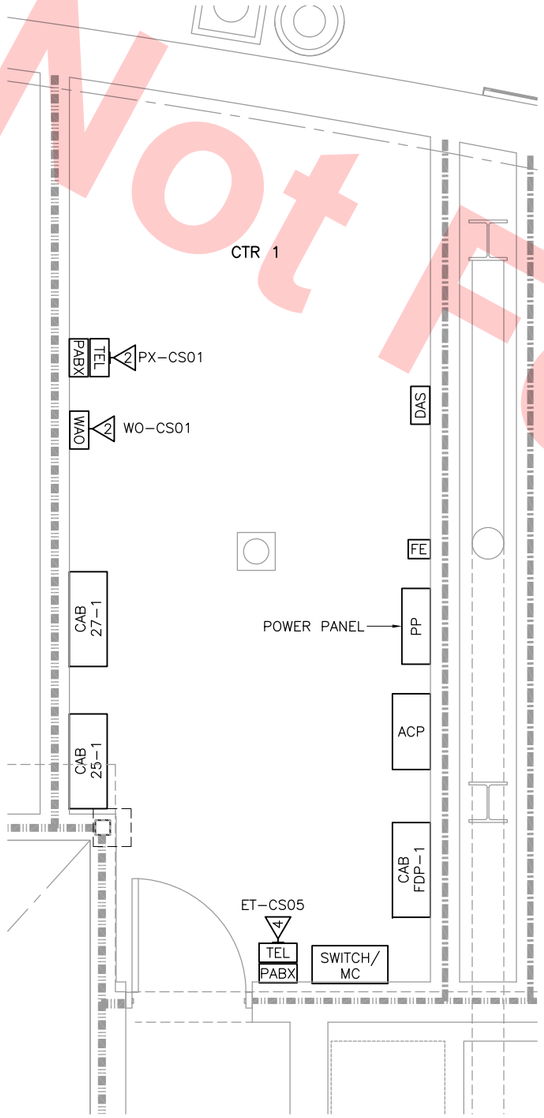
VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRAIN CONTROL ROOM S40
EQUIPMENT ELEVATIONS

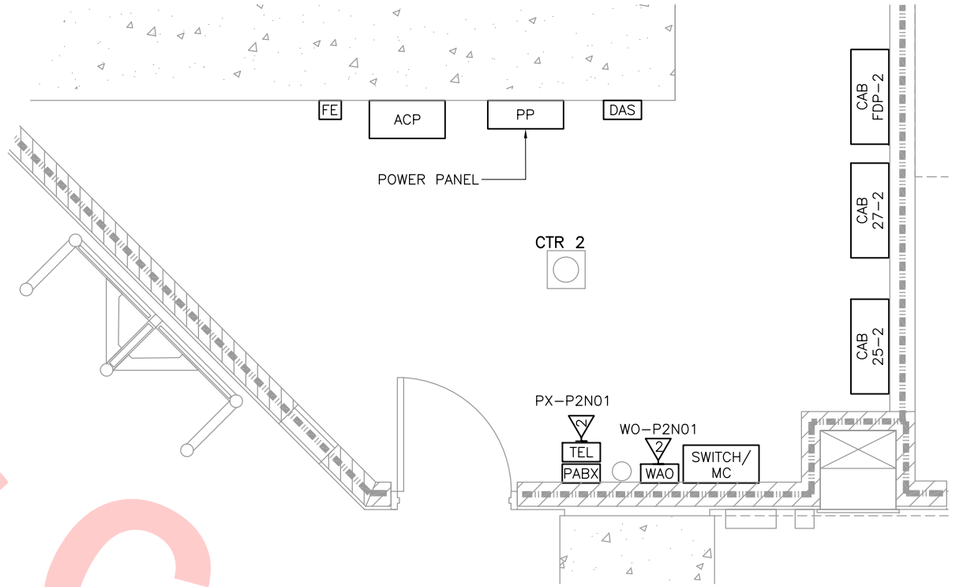
CADD FILENAME C700-S-DB-I057.dwg
SIZE D | SCALE 1/2" = 1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. I057 | PAGE NO. 1063

Jun 20, 2013 - 9:33am C:\projectwise\mbx-aathode\dms34735\C700-S-DB-I057.DWG
Adam

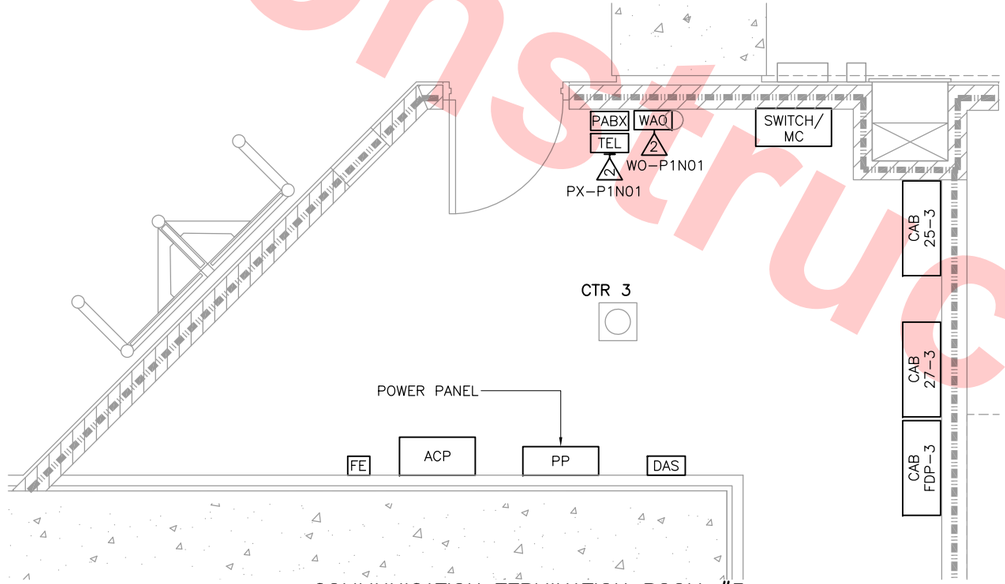
Not For Construction



COMMUNICATION TERMINATION ROOM #1
(CONCOURSE LEVEL)



COMMUNICATION TERMINATION ROOM #2
(PLATFORM LEVEL)



COMMUNICATION TERMINATION ROOM #3
(PLATFORM LEVEL)

NOTE:

1. THE EQUIPMENT ARRANGEMENT HAS BEEN SHOWN TO INDICATE THE EXPECTED EXTENT OF THIS EQUIPMENT IN THE COMMUNICATIONS TERMINATION ROOM AND THE ARRANGEMENT IS PRELIMINARY.
2. SUPPLEMENTAL RADIO TO BE ADDED / FURTHER DEFINED.

LEGEND:

DAS — DISTRIBUTED ANTENNA SYSTEM

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

1' 0' 1' 2' 3' 4' 5'
GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BEATRICE A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

SUBMITTED LTK Engineering Services

APPROVED Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY — T-Y-LIN INTERNATIONAL

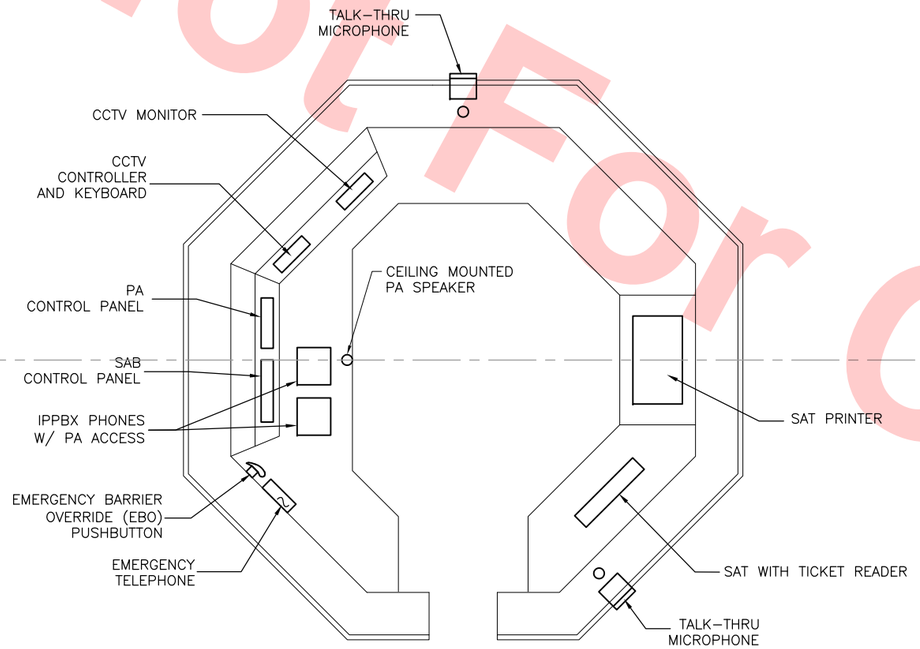
VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
EQUIPMENT ARRANGEMENT
COMMUNICATIONS TERMINATION ROOMS

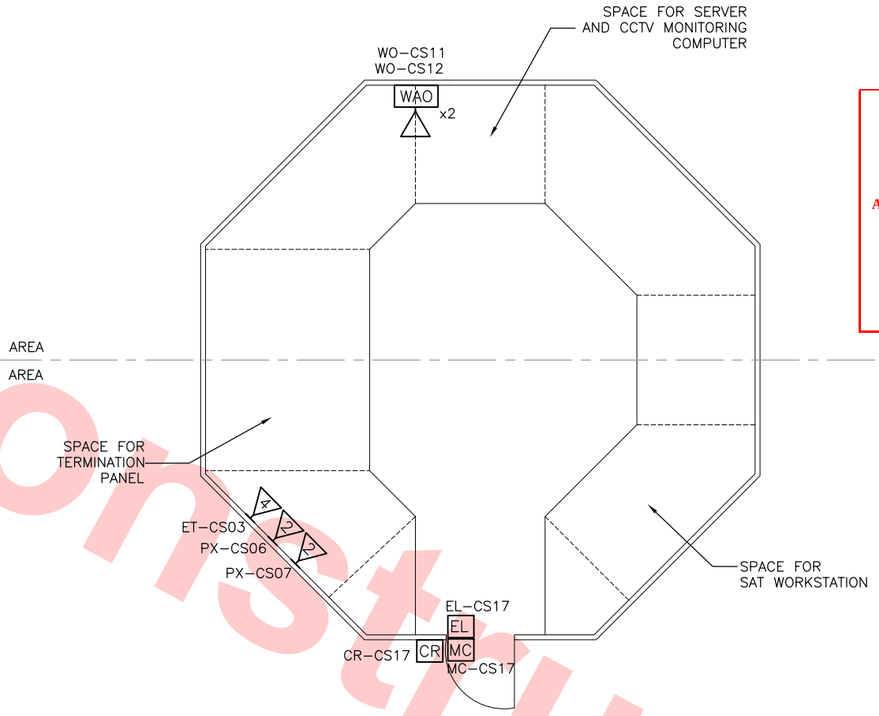
CADD FILENAME C700–S–DB–I065.dwg
SIZE D | SCALE 1/2" = 1'–0
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. I065 | PAGE NO. 1064

Adam Jun 20, 2013 - 9:35am C:\projectwise\vtabx-calstrodn\dms34735\C700-S-DB-I065.DWG

Not For Construction



CONSOLE PLAN
SCALE: NTS



FLOOR PLAN
SCALE: NTS

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEVERLY A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
EQUIPMENT ARRANGEMENT
STATION AGENT'S BOOTH

CADD FILENAME C700–S–DB–I640.dwg
SIZE D | SCALE NOT TO SCALE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. I640 | PAGE NO. 1065

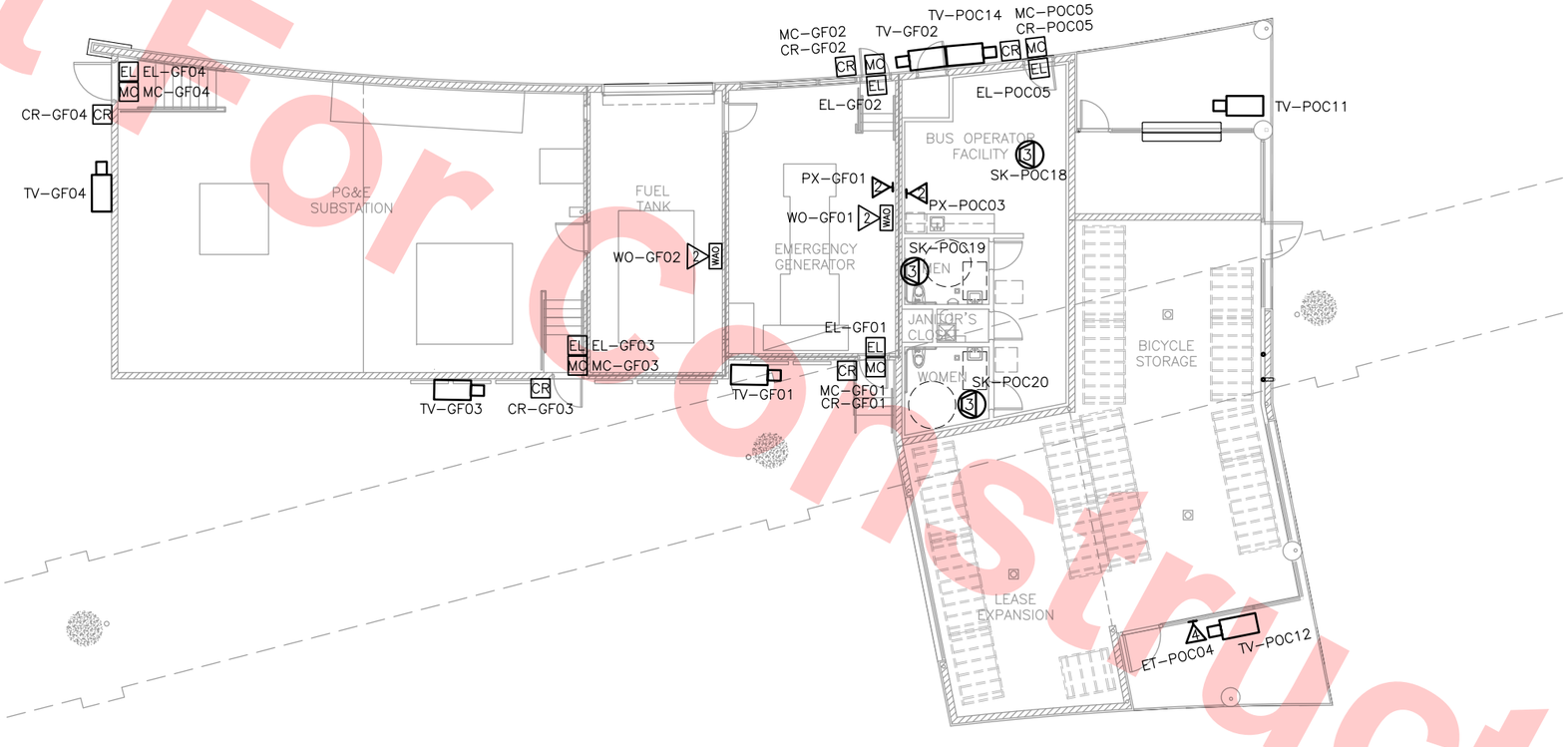
Jun 20, 2013 – 9:35am C:\projectwise\mbx-asbrode\dms34735\C700-S-DB-I640.DWG
Adam

Not For Construction

RN

NOTES:

1. COMMUNICATION DEVICES LABELED "POC" TO BE ROUTED TO VTA COMMUNICATIONS ROOM.
2. DEVICES LABELED "GF" (GROUND FLOOR) TO BE ROUTED TO CTR #1.
3. REFER TO RISER DIAGRAMS AND CONDUIT SCHEDULES FOR ROUTING DETAILS AND REQUIREMENTS.



ANCILLARY BUILDING PLAN

SCALE: 1/8"=1'–0"

8' 0' 8' 16'

GRAPHIC SCALE

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ANCILLARY BUILDING
COMMUNICATIONS EQUIPMENT LAYOUT

CADD FILENAME		
C700–S–DB–B811.dwg		
SIZE D	SCALE 1/8"=1'–0"	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. B811	PAGE NO. 1066

Jun 27, 2013 – 12:43pm C:\projectwise\copy of copy of mbx-template (13)\dms34735\C700-S-DB-B811.dwg
Beatriz

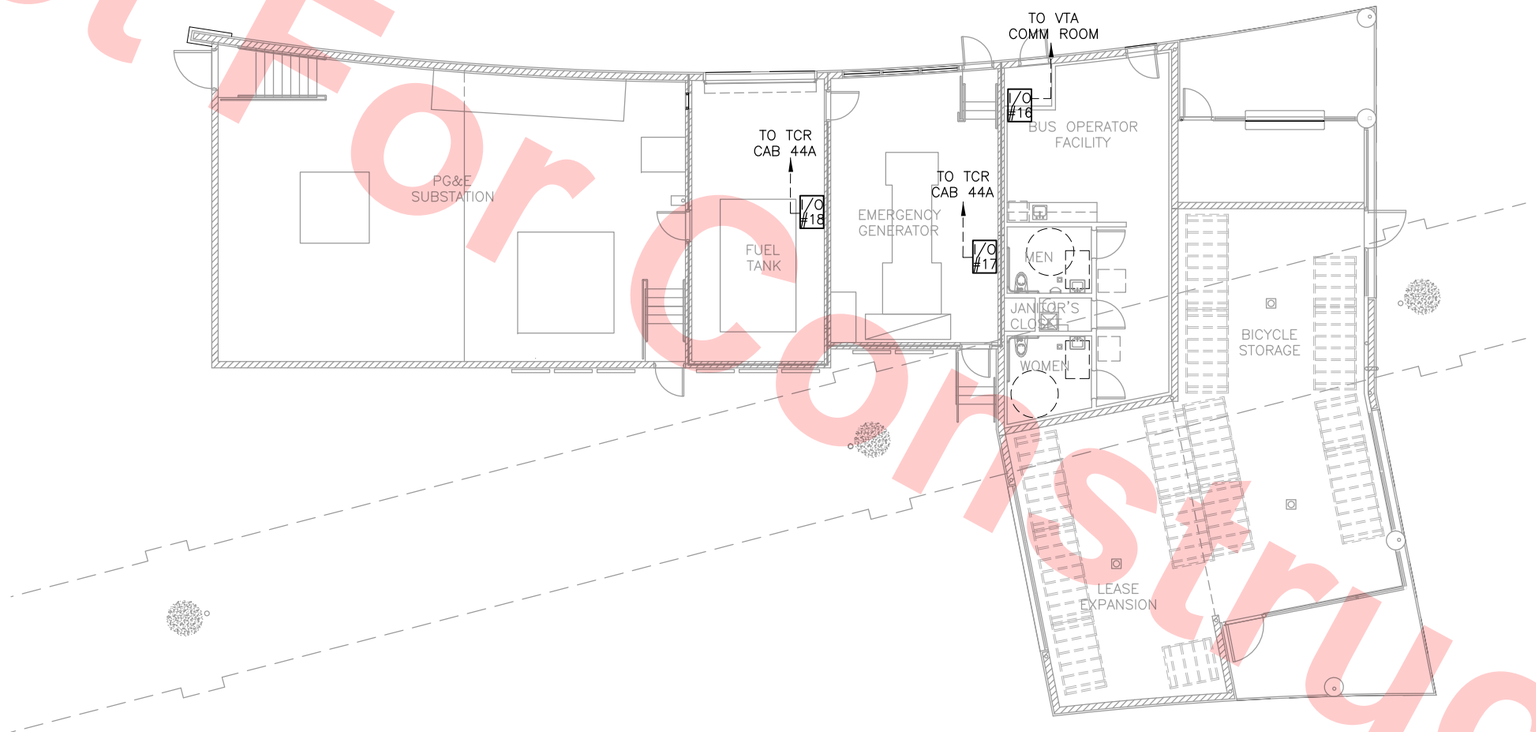
RN

NOTES:

1. REFER TO SCADA POINT LIST FOR INDIVIDUAL MONITOR AND CONTROL INPUTS/OUTPUTS.
2. REFER TO CONDUIT AND CABLE SCHEDULES FOR CONDUIT AND CABLE REQUIREMENTS.

LEGEND:

- HIDDEN/BURIED CONDUIT
- EXPOSED CONDUIT
- CIC — COMMUNICATIONS INTERFACE CABINET
- LCP — LIGHTING CONTROL PANEL
- I/O — INPUT/OUTPUT TERMINAL BOARD/CABINET
- FC — FARE COLLECTION INTERFACE JUNCTION BOX
- SAB — STATION AGENT BOOTH CONTROL PANEL
- CV — CONTROL VALVE
- PTS — PASSENGER TRIP STATION
- VCP — VENTILATION CONTROL PANEL
- FACP — FIRE ALARM CONTROL PANEL
- FCP — FAN CONTROL PANEL
- DVC — DELUGE VALVE CABINET



ANCILLARY BUILDING PLAN
SCALE: 1/8"=1'-0"

8' 0' 8' 16'
GRAPHIC SCALE

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ANCILLARY BUILDING
SCADA INTEGRATION EQUIPMENT LAYOUT

CADD FILENAME C700-S-DB-B815.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B815 | PAGE NO. 1067

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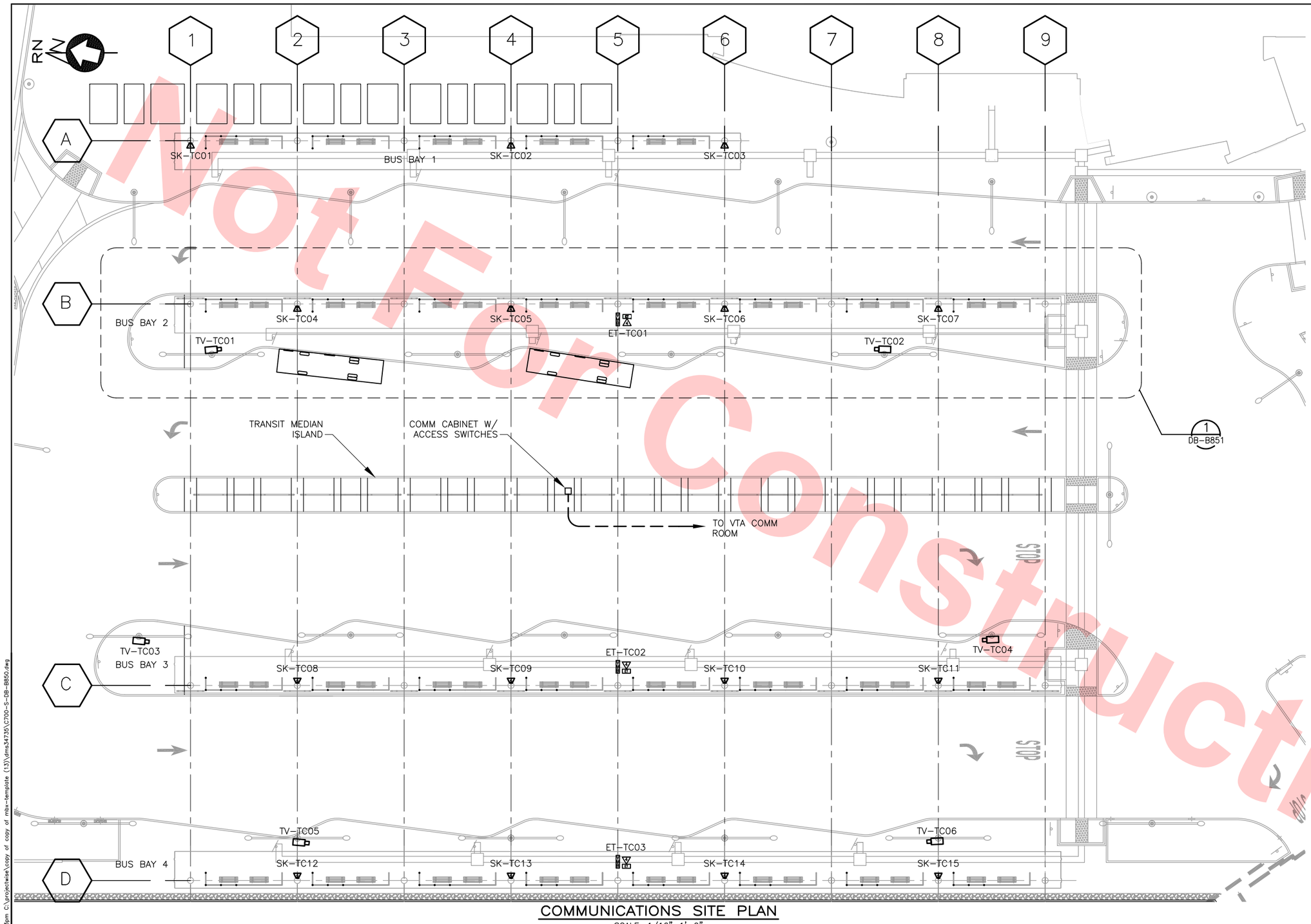
Beatriz



Not For Construction

NOTES:

1. PROTECT COMMUNICATION CASE ON TRANSIT MEDIAN WITH BOLLARDS.
2. COMMUNICATION CASE CONDUIT TO BE ROUTED TO VTA COMM ROOM.
3. ALL CONDUITS SHALL BE RUN CONCEALED BELOW SLAB AND INSTALLED IN STRUCTURAL STEEL POLES ON BUS SHELTER STRUCTURAL STEEL TO INDIVIDUAL DEVICES.
4. REFER TO RISER DIAGRAMS AND CONDUIT SCHEDULES FOR ROUTING DETAILS AND REQUIREMENTS.

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ **Date:** _____

COMMUNICATIONS SITE PLAN

SCALE: 1/16"=1'–0"

16 0' 16 32

GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y LIN INTERNATIONAL

SUBMITTED _____
APPROVED _____

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRANSIT CENTER BUS SHELTER
COMMUNICATIONS SITE PLAN

CADD FILENAME		
C700–S–DB–B850.dwg		
SIZE	SCALE	
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CONTRACT NO.		REV.
C700		0
AREA CODE	SHEET NO.	PAGE NO.
DB	B850	1068

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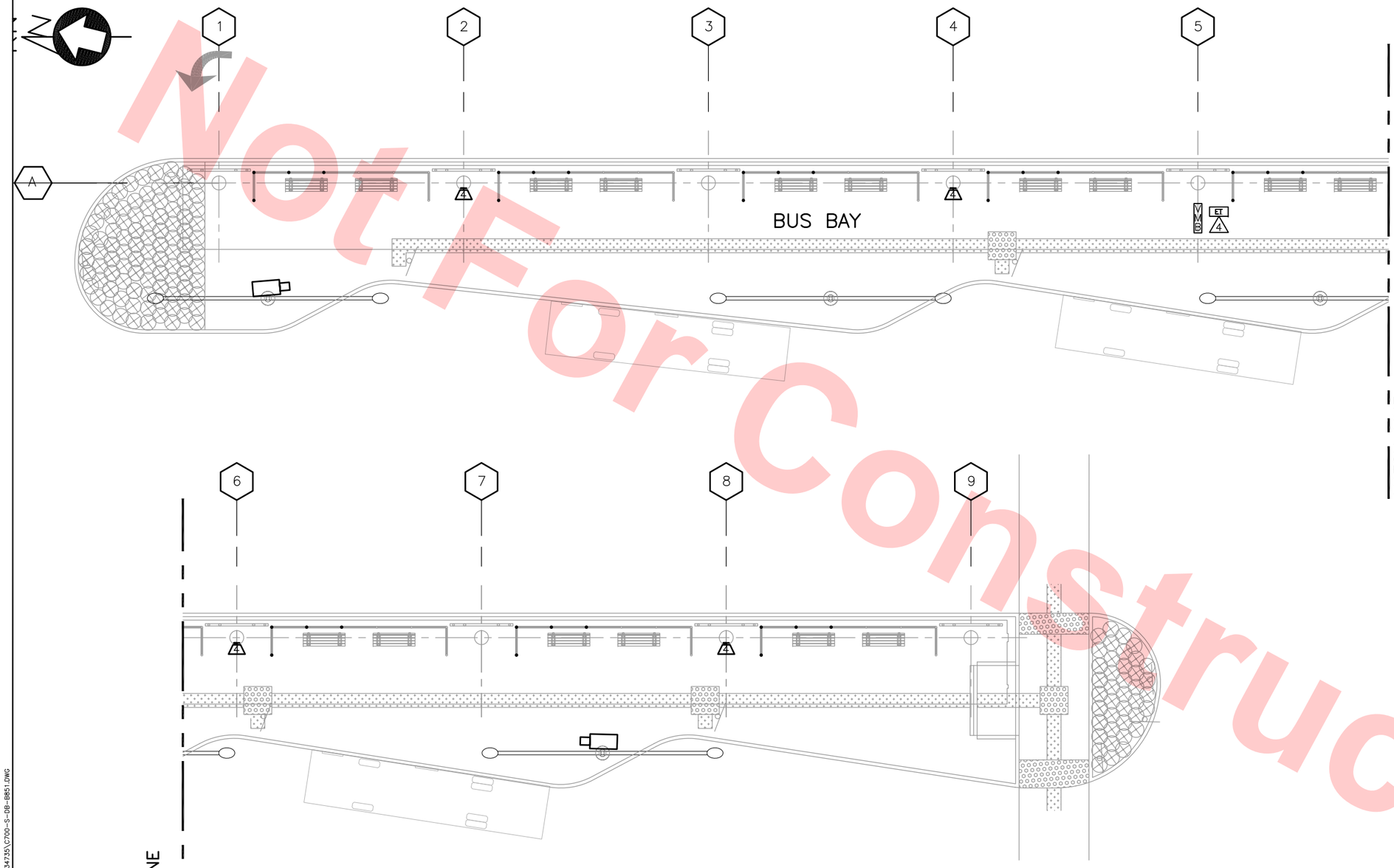
Beatriz



BUS BAY 2, 3, 4 PLANS (1 / DB-B851)

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

8' 0' 8' 16'

GRAPHIC SCALE

NOTE:

1. REFER TO RISER DIAGRAMS AND CONDUIT SCHEDULES FOR ROUTING DETAILS AND REQUIREMENTS.

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

RECORDED BEAVEN A. MENDEZ LORA — PROFESSIONAL ENGINEER — 5/9639 EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y LIN INTERNATIONAL

APPROVED

VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRANSIT CENTER BUS SHELTER
COMMUNICATIONS BUS BAY PLAN DETAIL

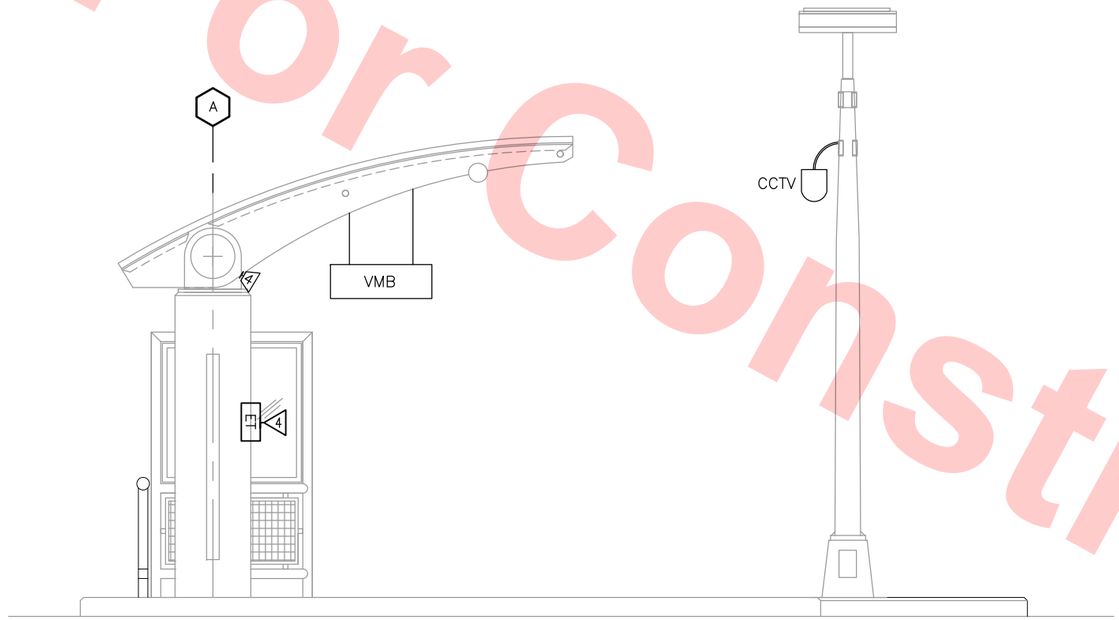
CADD FILENAME	
C700-S-DB-B851.dwg	
SIZE D	SCALE 1/8"=1'-0"
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. B851
	PAGE NO. 1069

Jun 20, 2013 - 9:25am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B851.DWG
Adam

Not For Construction

NOTES:

1. SPEAKERS LOCATED ON COLUMNS #1, #4, AND #6 AT BUS BAY #1.
2. SPEAKERS LOCATED ON COLUMNS #2, #4, #6, AND #8 AT BUS BAYS #2, #3, AND #4.
3. CCTVS LOCATED ON LIGHT POLES AT COLUMNS #2, AND #8 AT BUS BAYS #2, #3, AND #4.
4. VMBS LOCATED ON COLUMN #5 AT BUS BAYS #2, #3, AND #4.
5. EMERGENCY TELEPHONES LOCATED ON COLUMN #5 AT BUS BAYS #2, #3, AND #4.
6. MOUNTING DETAILS TO BE COORDINATED WITH BUS TRANSIT FINISHER.
7. ANY CONDUITS INSTALLED EXPOSED ON STRUCTURAL STEEL SHALL BE PAINTED TO MATCH STRUCTURAL STEEL.



SIDE ELEVATION (A)
SCALE: 1/2"=1'-0"
DB-B861

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

1' 0' 1' 2' 3' 4' 5'
GRAPHIC SCALE

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEARLEY K. MENDEZ LORA 519639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T-Y-LIN INTERNATIONAL
APPROVED

NTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
TRANSIT CENTER BUS SHELTER
COMMUNICATIONS ELEVATION

CADD FILENAME C700-S-DB-B861.dwg
SIZE D | SCALE AS NOTED
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B861 | PAGE NO. 1070

Jun 20, 2013 - 1:55pm C:\projectwise\mbx-astrole\dms34735\C700-S-DB-B861.dwg
Adam

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K001	2"	ACCESS CONTROL	SPNL-CS01	MPNL-CN01	1-CAT6	
5K002	2"	ACCESS CONTROL	SPNL-P2N01	MPNL-CN01	1-CAT6	
5K003	2"	ACCESS CONTROL	SPNL-P1N01	MPNL-CN01	1-CAT6	
5K004	3/4"	ACCESS CONTROL	JB-C18A	MPNL-CN01	2-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K005	3/4"	ACCESS CONTROL	JB-C18B	MPNL-CN01	2-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K006	3/4"	ACCESS CONTROL	JB-C20	MPNL-CN01	3-2/C#18	MAGNETIC CONTACT
5K007	3/4"	ACCESS CONTROL	JB-C21	MPNL-CN01	3-2/C#18	MAGNETIC CONTACT
5K008	3/4"	ACCESS CONTROL	JB-C19	MPNL-CN01	2-2/C#18	MAGNETIC CONTACT
5K009	1 1/4"	ACCESS CONTROL	JB-CN01	MPNL-CN01	7-2/C#18	MAGNETIC CONTACT
					4-4/C#22	REX
					4-4/C#18	ELECTRIC LOCK
					4-6/C#18	CARD READER
5K010	1 1/4"	ACCESS CONTROL	JB-CN05	MPNL-CN01	7-2/C#18	MAGNETIC CONTACT
					4-4/C#22	REX
					4-4/C#18	ELECTRIC LOCK
					4-6/C#18	CARD READER
5K011	3/4"	ACCESS CONTROL	JB-C46	JB-CN05	2-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K012	1"	ACCESS CONTROL	JB-CN04	JB-CN05	3-2/C#18	MAGNETIC CONTACT
					2-4/C#22	REX
					2-4/C#18	ELECTRIC LOCK
					2-6/C#18	CARD READER
5K013	3/4"	ACCESS CONTROL	JB-C24	JB-CN04	2-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K014	3/4"	ACCESS CONTROL	JB-C28	JB-CN04	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K015	3/4"	ACCESS CONTROL	JB-C16	JB-CN01	2-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K016	1"	ACCESS CONTROL	JB-CN02	JB-CN01	5-2/C#18	MAGNETIC CONTACT
					3-4/C#22	REX
					3-4/C#18	ELECTRIC LOCK
					3-6/C#18	CARD READER
5K017	3/4"	ACCESS CONTROL	JB-C13	JB-CN02	2-2/C#18	MAGNETIC CONTACT
5K018	1"	ACCESS CONTROL	JB-CN03	JB-CN02	3-2/C#18	MAGNETIC CONTACT
					3-4/C#22	REX
					3-4/C#18	ELECTRIC LOCK
					3-6/C#18	CARD READER
5K019	3/4"	ACCESS CONTROL	JB-C14	JB-CN03	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K020	3/4"	ACCESS CONTROL	JB-C11	JB-CN03	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K021	1 1/4"	ACCESS CONTROL	JB-CS04	SPNL-CS01	8-2/C#18	MAGNETIC CONTACT
					3-4/C#22	REX
					3-4/C#18	ELECTRIC LOCK
					3-6/C#18	CARD READER
5K022	1"	ACCESS CONTROL	JB-CS03	JB-CS04	3-2/C#18	MAGNETIC CONTACT
					3-4/C#22	REX
					3-4/C#18	ELECTRIC LOCK
					3-6/C#18	CARD READER
5K023	3/4"	ACCESS CONTROL	JB-C36	JB-CS03	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K024	3/4"	ACCESS CONTROL	JB-CS02	JB-CS03	2-2/C#18	MAGNETIC CONTACT
					2-4/C#22	REX
					2-4/C#18	ELECTRIC LOCK
					2-6/C#18	CARD READER
5K025	3/4"	ACCESS CONTROL	JB-C34	JB-CS02	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K026	3/4"	ACCESS CONTROL	JB-CS01	JB-CS02	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K027	3/4"	ACCESS CONTROL	JB-CS05	JB-CS04	5-2/C#18	MAGNETIC CONTACT
5K028	3/4"	ACCESS CONTROL	JB-CS06	JB-CS05	4-2/C#18	MAGNETIC CONTACT
5K029	3/4"	ACCESS CONTROL	JB-CS07	JB-CS06	3-2/C#18	MAGNETIC CONTACT
5K030	3/4"	ACCESS CONTROL	MC-CS03	JB-CS06	1-2/C#18	MAGNETIC CONTACT
5K031	3/4"	ACCESS CONTROL	MC-CS02	JB-CS05	1-2/C#18	MAGNETIC CONTACT
5K032	3/4"	ACCESS CONTROL	JB-C37	SPNL-CS01	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER
5K033	1 1/4"	ACCESS CONTROL	JB-CS15	SPNL-CS01	4-2/C#18	MAGNETIC CONTACT
					4-4/C#22	REX
					4-4/C#18	ELECTRIC LOCK
					4-6/C#18	CARD READER
5K034	3/4"	ACCESS CONTROL	JB-CS08	JB-CS09	3-2/C#18	MAGNETIC CONTACT
5K035	3/4"	ACCESS CONTROL	JB-CS09	JB-CS10	4-2/C#18	MAGNETIC CONTACT
5K036	3/4"	ACCESS CONTROL	JB-C06	JB-CS10	2-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18	CARD READER

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
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Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER ROBERT A. HENDRICKSON E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED

LTK Engineering Services

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y·LIN INTERNATIONAL

APPROVED

VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 1 OF 9

CADD FILENAME C700-S-DB-B880.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B880 | PAGE NO. 1071

Adam Jun 26, 2013 - 5:47pm C:\projectwise\mbx-oshrode\dms34735\C700-S-DB-B880.dwg

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K037	1"	ACCESS CONTROL	JB–CS10	SPNL–CS01	7–2/C#18	MAGNETIC CONTACT
					2–4/C#22	REX
					2–4/C#18	ELECTRICAL LOCK
					2–6/C#18TS	CARD READER
5K038	1"	ACCESS CONTROL	JB–CS11	SPNL–CS01	4–2/C#18	MAGNETIC CONTACT
					3–4/C#22	REX
					3–4/C#18	ELECTRICAL LOCK
					3–6/C#18TS	CARD READER
5K039	3/4"	ACCESS CONTROL	JB–C07	JB–CS10	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K040	3/4"	ACCESS CONTROL	JB–C08	JB–CS11	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K041	3/4"	ACCESS CONTROL	JB–CS12	JB–CS11	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K042	3/4"	ACCESS CONTROL	JB–CS13	JB–CS11	2–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K043	3/4"	ACCESS CONTROL	MC–CS10	JB–CS13	1–2/C#18	MAGNETIC CONTACT
5K044	3/4"	ACCESS CONTROL	JB–C10	JB–CS13	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K045	3/4"	ACCESS CONTROL	JB–P10	SPNL–P2N01	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K046	1 1/2"	ACCESS CONTROL	JB–PN01	SPNL–P2N01	19–2/C#18	MAGNETIC CONTACT
					5–4/C#22	REX
					5–4/C#18	ELECTRICAL LOCK
					5–6/C#18TS	CARD READER
5K047	1"	ACCESS CONTROL	JB–PN02	JB–PN01	7–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K048	3/4"	ACCESS CONTROL	MC–P2S01	JB–PN02	1–2/C#18	MAGNETIC CONTACT
5K049	3/4"	ACCESS CONTROL	JB–PS01	JB–PN02	6–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K050	3/4"	ACCESS CONTROL	JB–P08	JB–PS01	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K051	3/4"	ACCESS CONTROL	JB–PS02	JB–PS01	5–2/C#18	MAGNETIC CONTACT
5K052	3/4"	ACCESS CONTROL	MC–P2S03	JB–PS02	1–2/C#18	MAGNETIC CONTACT
5K053	3/4"	ACCESS CONTROL	MC–P2S07	JB–PS02	1–2/C#18	MAGNETIC CONTACT
5K054	3/4"	ACCESS CONTROL	MC–P2S06	JB–PS02	1–2/C#18	MAGNETIC CONTACT
5K055	3/4"	ACCESS CONTROL	MC–P2S05	JB–PS02	1–2/C#18	MAGNETIC CONTACT
5K056	3/4"	ACCESS CONTROL	MC–P2S04	JB–PS02	1–2/C#18	MAGNETIC CONTACT

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K057	1 1/4"	ACCESS CONTROL	JB–PN03	JB–PN01	12–2/C#18	MAGNETIC CONTACT
					4–4/C#22	REX
					4–4/C#18	ELECTRICAL LOCK
					4–6/C#18TS	CARD READER
5K058	3/4"	ACCESS CONTROL	MC–P2N02	JB–PN03	1–2/C#18	MAGNETIC CONTACT
5K059	1 1/4"	ACCESS CONTROL	JB–PN04	JB–PN03	11–2/C#18	MAGNETIC CONTACT
					4–4/C#22	REX
					4–4/C#18	ELECTRICAL LOCK
					4–6/C#18TS	CARD READER
5K060	3/4"	ACCESS CONTROL	JB–P14	JB–PN04	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K061	1 1/4"	ACCESS CONTROL	JB–PN05	JB–PN04	10–2/C#18	MAGNETIC CONTACT
					3–4/C#22	REX
					3–4/C#18	ELECTRICAL LOCK
					3–6/C#18TS	CARD READER
5K062	3/4"	ACCESS CONTROL	JB–P16	JB–PN05	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K063	1"	ACCESS CONTROL	JB–PN06	JB–PN05	9–2/C#18	MAGNETIC CONTACT
					2–4/C#22	REX
					2–4/C#18	ELECTRICAL LOCK
					2–6/C#18TS	CARD READER
5K064	3/4"	ACCESS CONTROL	JB–P18	JB–PN06	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K065	1"	ACCESS CONTROL	JB–PN07	JB–PN06	8–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K066	3/4"	ACCESS CONTROL	MC–P2N06	JB–PN07	1–2/C#18	MAGNETIC CONTACT
5K067	3/4"	ACCESS CONTROL	JB–PN08	JB–PN07	7–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K068	3/4"	ACCESS CONTROL	MC–P2N07	JB–PN08	1–2/C#18	MAGNETIC CONTACT
5K069	3/4"	ACCESS CONTROL	JB–PN09	JB–PN08	6–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K070	3/4"	ACCESS CONTROL	JB–P24	JB–PN09	1–2/C#18	MAGNETIC CONTACT
					1–4/C#22	REX
					1–4/C#18	ELECTRICAL LOCK
					1–6/C#18TS	CARD READER
5K071	3/4"	ACCESS CONTROL	JB–PN10	JB–PN09	5–2/C#18	MAGNETIC CONTACT

Santa Clara Valley Transportation Authority

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Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED ELECTRICAL ENGINEER — E19639 EXP. 09-30-13 — PROFESSIONAL ENGINEER — STATE OF CALIFORNIA — ELECTRICAL

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

SUBMITTED _____

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A URS COMPANY | T·Y·LIN INTERNATIONAL

APPROVED _____

VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 2 OF 9

CADD FILENAME C700–S–DB–B881.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B881 | PAGE NO. 1072

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Adam

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K072	3/4"	ACCESS CONTROL	MC-P2N09	JB-PN10	1-2/C#18	MAGNETIC CONTACT
5K073	3/4"	ACCESS CONTROL	MC-P2N10	JB-PN11	1-2/C#18	MAGNETIC CONTACT
5K074	3/4"	ACCESS CONTROL	MC-P2N11	JB-PN11	1-2/C#18	MAGNETIC CONTACT
5K075	3/4"	ACCESS CONTROL	MC-P2N12	JB-PN11	1-2/C#18	MAGNETIC CONTACT
5K076	3/4"	ACCESS CONTROL	MC-P2N13	JB-PN11	1-2/C#18	MAGNETIC CONTACT
5K077	3/4"	ACCESS CONTROL	JB-P09	SPNL-P1N01	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K078	1 1/2"	ACCESS CONTROL	JB-PN12	SPNL-P1N01	19-2/C#18	MAGNETIC CONTACT
					5-4/C#22	REX
					5-4/C#18	ELECTRICAL LOCK
					5-6/C#18TS	CARD READER
5K079	1"	ACCESS CONTROL	JB-PS03	JB-PN12	7-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K080	3/4"	ACCESS CONTROL	MC-P1S01	JB-PS03	1-2/C#18	MAGNETIC CONTACT
5K081	3/4"	ACCESS CONTROL	JB-PS04	JB-PS03	6-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K082	3/4"	ACCESS CONTROL	JB-P07	JB-PS04	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K083	3/4"	ACCESS CONTROL	JB-PS05	JB-PS04	5-2/C#18	MAGNETIC CONTACT
5K084	3/4"	ACCESS CONTROL	MC-P1S03	JB-PS05	1-2/C#18	MAGNETIC CONTACT
5K085	3/4"	ACCESS CONTROL	MC-P1S04	JB-PS05	1-2/C#18	MAGNETIC CONTACT
5K086	3/4"	ACCESS CONTROL	MC-P1S05	JB-PS05	1-2/C#18	MAGNETIC CONTACT
5K087	3/4"	ACCESS CONTROL	MC-P1S06	JB-PS05	1-2/C#18	MAGNETIC CONTACT
5K088	3/4"	ACCESS CONTROL	MC-P1S07	JB-PS05	1-2/C#18	MAGNETIC CONTACT
5K089	1 1/4"	ACCESS CONTROL	JB-PN13	JB-PN12	12-2/C#18	MAGNETIC CONTACT
					4-4/C#22	REX
					4-4/C#18	ELECTRICAL LOCK
					4-6/C#18TS	CARD READER
5K090	3/4"	ACCESS CONTROL	MC-P1N02	JB-PN13	1-2/C#18	MAGNETIC CONTACT
5K091	1 1/4"	ACCESS CONTROL	JB-PN14	JB-PN13	11-2/C#18	MAGNETIC CONTACT
					4-4/C#22	REX
					4-4/C#18	ELECTRICAL LOCK
					4-6/C#18TS	CARD READER
5K092	3/4"	ACCESS CONTROL	JB-P13	JB-PN14	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K093	1 1/4"	ACCESS CONTROL	JB-PN15	JB-PN14	10-2/C#18	MAGNETIC CONTACT
					3-4/C#22	REX
					3-4/C#18	ELECTRICAL LOCK
					3-6/C#18TS	CARD READER
5K094	3/4"	ACCESS CONTROL	JB-P15	JB-PN15	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K095	1"	ACCESS CONTROL	JB-PN16	JB-PN15	9-2/C#18	MAGNETIC CONTACT
					2-4/C#22	REX
					2-4/C#18	ELECTRICAL LOCK
					2-6/C#18TS	CARD READER
5K096	3/4"	ACCESS CONTROL	JB-P17	JB-PN16	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K097	1"	ACCESS CONTROL	JB-PN17	JB-PN16	8-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K098	3/4"	ACCESS CONTROL	MC-P1N06	JB-PN17	1-2/C#18	MAGNETIC CONTACT
5K099	3/4"	ACCESS CONTROL	JB-PN18	JB-PN17	7-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K100	3/4"	ACCESS CONTROL	MC-P1N07	JB-PN18	1-2/C#18	MAGNETIC CONTACT
5K101	3/4"	ACCESS CONTROL	JB-PN19	JB-PN18	6-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K102	3/4"	ACCESS CONTROL	JB-P23	JB-PN19	1-2/C#18	MAGNETIC CONTACT
					1-4/C#22	REX
					1-4/C#18	ELECTRICAL LOCK
					1-6/C#18TS	CARD READER
5K103	3/4"	ACCESS CONTROL	MC-P1N09	JB-PN20	1-2/C#18	MAGNETIC CONTACT
5K104	3/4"	ACCESS CONTROL	MC-P1N10	JB-PN21	1-2/C#18	MAGNETIC CONTACT
5K105	3/4"	ACCESS CONTROL	MC-P1N11	JB-PN21	1-2/C#18	MAGNETIC CONTACT
5K106	3/4"	ACCESS CONTROL	MC-P1N12	JB-PN21	1-2/C#18	MAGNETIC CONTACT
5K107	3/4"	ACCESS CONTROL	MC-P1N13	JB-PN21	1-2/C#18	MAGNETIC CONTACT
5K108	3/4"	ACCESS CONTROL	JB-PN21	JB-PN20	4-2/C#18	MAGNETIC CONTACT
5K109	3/4"	ACCESS CONTROL	JB-PN11	JB-PN10	4-2/C#18	MAGNETIC CONTACT
5K110	3/4"	ACCESS CONTROL	JB-PN20	JB-PN19	5-2/C#18	MAGNETIC CONTACT
5K111	3/4"	ACCESS CONTROL	JB-CS16	JB-CS15	2-2/C#18	MAGNETIC CONTACT
					2-4/C#22	REX
					2-4/C#18	ELECTRICAL LOCK
					2-6/C#18TS	CARD READER
5K112	3/4"	ACCESS CONTROL	JB-CS14	JB-CS15	2-2/C#18	MAGNETIC CONTACT
					2-4/C#22	REX
					2-4/C#18	ELECTRICAL LOCK
					2-6/C#18TS	CARD READER
5K113	3/4"	ACCESS CONTROL	JB-C12	JB-CN03	1-2/C#18	MAGNETIC LOCK
					1-4/C#22	REX
					1-4/C#18	ELECTRIC LOCK
					1-6/C#18TS	CARD READER
5K114						

Not For Construction

Santa Clara Valley Transportation Authority

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By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEATRICE A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

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APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
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COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 3 OF 9

CADD FILENAME C700-S-DB-B882.dwg
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CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B882 | PAGE NO. 1073

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Adam

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K200	2"	TELEPHONE/NETWORK	CTR#1	TCR S40	6-MMFO	
5K201	2"	TELEPHONE/NETWORK	CTR#2	TCR S40	6-MMFO	
5K202	2"	TELEPHONE/NETWORK	CTR#3	TCR S40	6-MMFO	
5K203	2"	PUBLIC TELEPHONE	TELCO ROOM	TCR S40	-	EMPTY W/ PULL STRING
5K204	2"	PUBLIC TELEPHONE	TELCO ROOM	TCR S40	-	EMPTY W/ PULL STRING
5K205	2"	PAY PHONE	JB-CS15	TELCO ROOM	-	EMPTY W/ PULL STRING
5K206	2"	PAY PHONE	JB-CS47	TELCO ROOM	-	EMPTY W/ PULL STRING
5K207	3/4"	NETWORK	JB-CN09	CAB 84	3-CAT6	NETWORK
5K208	3/4"	NETWORK	JB-CN08	JB-CN09	2-CAT6	NETWORK
5K209	3/4"	NETWORK	JB-CN07	JB-CN08	1-CAT6	NETWORK
5K210	3/4"	TELEPHONE	JB-CN10	JB-CN11	2-CAT6	PX & ET
5K211	1"	TELEPHONE/NETWORK	JB-CN11	JB-CN12	4-CAT6	PX, ET & WAO
5K212	1 1/4"	TELEPHONE/NETWORK	JB-CN12	CABS: 84, 25, 22, 21 & 21A	8-CAT6	PX, ET & WAO
5K213	3/4"	TELEPHONE/NETWORK	JB-CN13	JB-CN12	3-CAT6	PX, ET & WAO
5K214	2 1/2"	TELEPHONE/NETWORK	JB-CN14	CABS: 84, 25, 22, 21 & 21A	29-CAT6	PX, ET & WAO
5K215	1 1/2"	TELEPHONE/NETWORK	JB-CN26	JB-CN14	12-CAT6	PX & WAO
5K216	1 1/4"	TELEPHONE/NETWORK	JB-CN28	JB-CN26	9-CAT6	PX & WAO
5K217	3/4"	TELEPHONE/NETWORK	JB-CN27	JB-CN26	3-CAT6	PX & WAO
5K218	3/4"	TELEPHONE/NETWORK	JB-CN29	JB-CN28	3-CAT6	PX & WAO
5K219	1 1/4"	TELEPHONE/NETWORK	JB-CN30	JB-CN28	6-CAT6	PX & WAO
5K220	3/4"	TELEPHONE/NETWORK	JB-CN31	JB-CN30	3-CAT6	PX & WAO
5K221	3/4"	TELEPHONE/NETWORK	JB-CN32	JB-CN30	3-CAT6	PX & WAO
5K222	2"	TELEPHONE/NETWORK	JB-CN15	JB-CN14	17-CAT6	PX, ET & WAO
5K223	3/4"	TELEPHONE/NETWORK	JB-CN16	JB-CN15	3-CAT6	PX & WAO
5K224	2"	TELEPHONE/NETWORK	JB-CN17	JB-CN15	14-CAT6	PX, ET & WAO
5K225	3/4"	TELEPHONE/NETWORK	JB-CN18	JB-CN17	3-CAT6	PX & WAO
5K226	1 1/2"	TELEPHONE/NETWORK	JB-CN19	JB-CN17	11-CAT6	PX, ET & WAO
5K227	1"	TELEPHONE/NETWORK	JB-CN20	JB-CN19	6-CAT6	PX & WAO
5K228	3/4"	TELEPHONE/NETWORK	JB-CN06	JB-CN20	3-CAT6	PX & WAO
5K229	3/4"	TELEPHONE/NETWORK	JB-CN21	JB-CN20	3-CAT6	PX & WAO
5K230	1 1/4"	TELEPHONE/NETWORK	JB-CN22	JB-CN19	5-CAT6	PX, ET & WAO
5K230A	1"	TELEPHONE/NETWORK	JB-CN23	JB-CN22	4-CAT6	PX, ET & WAO
5K231	3/4"	NETWORK	WO-CN13	JB-CN23	2-CAT6	WAO
5K232	3/4"	TELEPHONE/NETWORK	JB-CN25	JB-CN23	2-CAT6	PX & ET
5K233	3/4"	PAY PHONE	PAY PHONE	JB-CS15	-	EMPTY W/ PULL STRING
5K234	2"	PAY PHONE	JB-CS16	JB-CS15	-	EMPTY W/ PULL STRING
5K235	3/4"	PAY PHONE	JB-CS17	JB-CS16	-	EMPTY W/ PULL STRING
5K236	2"	PAY PHONE	JB-CS18	JB-CS16	-	EMPTY W/ PULL STRING
5K237	3/4"	PAY PHONE	JB-CS19	JB-CS18	-	EMPTY W/ PULL STRING
5K238	3/4"	PAY PHONE	PAY PHONE	JB-CS18	-	EMPTY W/ PULL STRING
5K239	3/4"	TELEPHONE/NETWORK	JB-CS22	CAB 25-1	5-CAT6	PX & WAO
5K240	3/4"	TELEPHONE/NETWORK	JB-CS23	JB-CS22	3-CAT6	PX & WAO
5K241	4"	TELEPHONE/NETWORK	JB-CS21	CAB 25-1	5-6PR#19	FT
					46-CAT6	PX, ET & WAO
5K242	1"	TELEPHONE/NETWORK	JB-CS20	CAB 25-1	4-CAT6	PX, ET & WAO
5K243	3/4"	TELEPHONE/NETWORK	CT-CS01	JB-CS21	1-CAT6	CT
5K244	1"	TELEPHONE/NETWORK	FT-CS03	JB-CS21	1-6PR#19	FT
5K245	4"	TELEPHONE/NETWORK	JB-CS24	JB-CS21	4-6PR#19	FT
					45-CAT6	PX, ET & WAO
5K246	3/4"	TELEPHONE/NETWORK	CT-CS02	JB-CS24	1-CAT6	CT
5K247	3/4"	TELEPHONE/NETWORK	JB-CS25	JB-CS24	3-CAT6	PX & WAO
5K248	4"	TELEPHONE/NETWORK	JB-CS26	JB-CS24	4-6PR#19	FT
					41-CAT6	PX, ET & WAO
5K249	2"	TELEPHONE/NETWORK	JB-CS39	JB-CS26	1-6PR#19	FT
					15-CAT6	PX, ET & WAO

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K250	2"	TELEPHONE/NETWORK	JB-CS42	JB-CS39	1-6PR#19	FT
					10-CAT6	PX, ET & WAO
5K251	3/4"	TELEPHONE/NETWORK	CT-CS03	JB-CS42	1-CAT6	CT
5K252	3/4"	TELEPHONE/NETWORK	CT-CS04	JB-CS42	2-CAT6	CT
			CT-CS05			
5K253	1 1/2"	TELEPHONE/NETWORK	JB-CS43	JB-CS42	1-6PR#19	FT
					7-CAT6	PX, ET & WAO
5K254	3/4"	TELEPHONE/NETWORK	JB-CS44	JB-CS43	3-CAT6	PX & WAO
5K255	3/4"	TELEPHONE	CT-CS06	JB-CS43	1-CAT6	CT
5K256	1 1/4"	TELEPHONE	JB-CS45	JB-CS43	1-6PR#19	FT
					3-CAT6	PX, ET & CT
5K257	3/4"	TELEPHONE	CT-CS07	JB-CS45	1-CAT6	CT
5K258	3/4"	TELEPHONE	FHC	JB-CS45	2-CAT6	PX & ET
5K259	1"	TELEPHONE	FT-CS01	JB-CS45	1-6PR#19	FT
5K260	3/4"	NETWORK	JB-CS41	JB-CS39	3-CAT6	WAO
5K261	3/4"	TELEPHONE	JB-CS40	JB-CS39	2-CAT6	ET & PX
5K262	3"	TELEPHONE/NETWORK	JB-CS27	JB-CS26	3-6PR#19	FT
					26-CAT6	PX, CT, ET & WAO
5K263	1 1/2"	TELEPHONE/NETWORK	JB-CS28	JB-CS27	1-6PR#19	FT
					7-CAT6	PX, CT, ET & WAO
5K264	3/4"	TELEPHONE	CT-CS12	JB-CS28	1-CAT6	CT
5K265	3/4"	TELEPHONE/NETWORK	JB-CS29	JB-CS28	3-CAT6	PX & WAO
5K266	1 1/4"	TELEPHONE	JB-CS30	JB-CS28	1-6PR#19	FT
					3-CAT6	PX, CT & ET
5K267	1"	TELEPHONE	FT-CS04	JB-CS30	1-6PR#19	FT
5K268	3/4"	TELEPHONE	JB-CS31	JB-CS30	3-CAT6	PX, CT & ET
5K269	3/4"	TELEPHONE	CT-CS11	JB-CS31	1-CAT6	CT
5K269A	3/4"	TELEPHONE	FHC	JB-CS31	2-CAT6	PX & ET
5K270	1 1/4"	TELEPHONE/NETWORK	JB-CS32	JB-CS27	1-6PR#19	FT
					6-CAT6	PX, ET & WAO
5K271	2"	TELEPHONE/NETWORK	JB-CS33	JB-CS27	1-6PR#19	FT
					13-CAT6	PX, ET, CT & WAO
5K272	1 1/2"	TELEPHONE/NETWORK	JB-CS34	JB-CS33	1-6PR#19	FT
					9-CAT6	PX, ET, CT & WAO
5K273	3/4"	TELEPHONE/NETWORK	JB-CS35	JB-CS34	3-CAT6	PX & WAO
5K274	3/4"	TELEPHONE	CT-CS09	JB-CS34	1-CAT6	CT
5K275	3/4"	TELEPHONE	CT-CS10	JB-CS34	1-CAT6	CT
5K276	1 1/4"	TELEPHONE/NETWORK	JB-CS36	JB-CS34	1-6PR#19	FT
					4-CAT6	PX, CT & WAO
5K277	1"	TELEPHONE	FT-CS02	JB-CS36	1-6PR#19	FT
5K278	1"	TELEPHONE/NETWORK	JB-CS37	JB-CS36	4-CAT6	PX, CT & WAO
5K279	3/4"	TELEPHONE	CT-CS08	JB-CS37	1-CAT6	CT
5K280	3/4"	TELEPHONE/NETWORK	JB-CS38	JB-CS37	3-CAT6	PX & WAO
5K281	1"	PAY PHONE	JB-CS46	JB-CS47	-	EMPTY W/ PULL STRING
5K282	1"	PAY PHONE	JB-CS48	JB-CS47	-	EMPTY W/ PULL STRING
5K283	1"	PAY PHONE	JB-PN56	TELCO ROOM	-	EMPTY W/ PULL STRING
5K284	1"	PAY PHONE	JB-PN56A	JB-PN56	-	EMPTY W/ PULL STRING
5K285	1"	PAY PHONE	JB-PN57	JB-PN56	-	EMPTY W/ PULL STRING
5K286	2"	TELEPHONE/NETWORK	JB-PS06	CAB 25-2	2-6PR#19	FT
					14-CAT6	PX, CT, ET & WAO

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — BENJAMIN A. MENDEZ LORA — E19639 — EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A URS COMPANY | T.Y. LIN INTERNATIONAL

APPROVED

VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 4 OF 9

CADD FILENAME C700-S-DB-B883.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B883 | PAGE NO. 1074

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CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K287	2 1/2"	TELEPHONE/NETWORK	JB–PN26	CAB 25–2	1–6PR#19	FT
					23–CAT6	PX, CT, ET & WAO
5K288	3/4"	TELEPHONE/NETWORK	JB–PN25	CAB 25–2	3–CAT6	PX & WAO
5K289	3/4"	TELEPHONE	JB–PN27	JB–PN26	2–CAT6	PX & ET
5K290	3/4"	TELEPHONE	CT–P2N01	JB–PN26	1–CAT6	CT
5K291	2 1/2"	TELEPHONE/NETWORK	JB–PN28	JB–PN26	1–6PR#19	FT
					20–CAT6	PX, CT, ET & WAO
5K292	3/4"	TELEPHONE	CT–P2N03	JB–PN28	1–CAT6	CT
5K293	3/4"	TELEPHONE	CT–P2N02	JB–PN28	1–CAT6	CT
5K294	2"	TELEPHONE/NETWORK	JB–PN29	JB–PN28	1–6PR#19	FT
					18–CAT6	PX, CT, ET & WAO
5K295	3/4"	TELEPHONE/NETWORK	JB–PN30	JB–PN29	3–CAT6	PX & WAO
5K296	2"	TELEPHONE/NETWORK	JB–PN31	JB–PN29	1–6PR#19	FT
					15–CAT6	PX, CT, ET & WAO
5K297	3/4"	TELEPHONE/NETWORK	JB–PN32	JB–PN31	3–CAT6	PX & WAO
5K298	3/4"	TELEPHONE/NETWORK	JB–PN33	JB–PN31	3–CAT6	PX & WAO
5K299	1 1/2"	TELEPHONE/NETWORK	JB–PN34	JB–PN31	1–6PR#19	FT
					9–CAT6	PX, CT, ET & WAO
5K300	3/4"	TELEPHONE/NETWORK	JB–PN35	JB–PN34	3–CAT6	PX & WAO
5K301	1 1/4"	TELEPHONE	JB–PN36	JB–PN34	1–6PR#19	FT
					6–CAT6	PX, CT & ET
5K302	3/4"	TELEPHONE	CT–P2N04	JB–PN36	1–CAT6	CT
5K303	3/4"	TELEPHONE	JB–PN37	JB–PN36	2–CAT6	PX & ET
5K304	1 1/4"	TELEPHONE	JB–PN38	JB–PN36	1–6PR#19	FT
					3–CAT6	PX, CT & ET
5K305	3/4"	TELEPHONE	JB–PN39	JB–PN38	2–CAT6	PX & ET
5K306	1"	TELEPHONE	JB–PN40	JB–PN38	1–6PR#19	FT
					1–CAT6	CT
5K307	3/4"	TELEPHONE	CT–P2N05	JB–PN40	1–CAT6	CT
5K308	1"	TELEPHONE	FT–P2N01	JB–PN40	1–6PR#19	FT
5K309	2"	TELEPHONE/NETWORK	JB–PS16	CAB 25–3	2–6PR#19	FT
					14–CAT6	PX, CT, ET & WAO
5K310	2 1/2"	TELEPHONE/NETWORK	JB–PN42	CAB 25–3	1–6PR#19	FT
					23–CAT6	PX, CT, ET & WAO
5K311	3/4"	TELEPHONE/NETWORK	JB–PN41	CAB 25–3	3–CAT6	PX & WAO
5K312	3/4"	TELEPHONE	JB–PN43	JB–PN42	3–CAT6	PX, ET & CT
5K313	3/4"	TELEPHONE	CT–P1N01	JB–PN43	1–CAT6	CT
5K314	2 1/2"	TELEPHONE/NETWORK	JB–PN44	JB–PN42	1–6PR#19	FT
					20–CAT6	PX, CT, ET & WAO
5K315	3/4"	TELEPHONE	CT–P1N02	JB–PN44	1–CAT6	CT
5K316	3/4"	TELEPHONE	CT–P1N03	JB–PN44	1–CAT6	CT
5K317	2"	TELEPHONE/NETWORK	JB–PN45	JB–PN44	1–6PR#19	FT
					18–CAT6	PX, CT, ET & WAO
5K318	3/4"	TELEPHONE/NETWORK	JB–PN46A	JB–PN45	3–CAT6	PX & WAO
5K319	2"	TELEPHONE/NETWORK	JB–PN46	JB–PN45	1–6PR#19	FT
					15–CAT6	PX, CT, ET & WAO
5K320	3/4"	TELEPHONE/NETWORK	JB–PN48	JB–PN46	3–CAT6	PX & WAO
5K321	3/4"	TELEPHONE/NETWORK	JB–PN47	JB–PN46	3–CAT6	PX & WAO
5K322	1 1/2"	TELEPHONE/NETWORK	JB–PN49	JB–PN46	1–6PR#19	FT
					9–CAT6	PX, CT, ET & WAO
5K323	3/4"	TELEPHONE/NETWORK	JB–PN50	JB–PN49	3–CAT6	PX & WAO
5K324	1 1/4"	TELEPHONE	JB–PN51	JB–PN49	1–6PR#19	FT
					6–CAT6	PX, CT & ET
5K325	3/4"	TELEPHONE	CT–P1N04	JB–PN51	1–CAT6	CT
5K326	3/4"	TELEPHONE	JB–PN52	JB–PN51	2–CAT6	PX & ET

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K327	1 1/4"	TELEPHONE	JB–PN53	JB–PN51	1–6PR#19	FT
					3–CAT6	PX, CT & ET
5K328	3/4"	TELEPHONE	JB–PN54	JB–PN53	2–CAT6	PX & ET
5K329	1"	TELEPHONE	JB–PN55	JB–PN53	1–6PR#19	FT
					1–CAT6	CT
5K330	3/4"	TELEPHONE	CT–P1N05	JB–PN55	1–CAT6	CT
5K331	1"	TELEPHONE	FT–P1N01	JB–PN55	1–6PR#19	FT
5K332	1"	TELEPHONE	JB–PS07	JB–PS06	1–6PR#19	FT
					2–CAT6	PX & ET
5K333	2"	TELEPHONE/NETWORK	JB–PS08	JB–PS06	1–6PR#19	FT
					12–CAT6	PX, CT, ET & WAO
5K334	3/4"	TELEPHONE/NETWORK	JB–PS09	JB–PS08	3–CAT6	PX & WAO
5K335	1 1/2"	TELEPHONE	JB–PS10	JB–PS08	1–6PR#19	FT
					9–CAT6	PX, CT & ET
5K336	3/4"	TELEPHONE	JB–PS11A	JB–PS10	3–CAT6	PX, CT & ET
5K337	3/4"	TELEPHONE	CT–P2S01	JB–PS11A	1–CAT6	CT
5K338	1 1/4"	TELEPHONE	JB–PS11	JB–PS10	1–6PR#19	FT
					6–CAT6	PX, CT & ET
5K339	3/4"	TELEPHONE	JB–PS12	JB–PS11	3–CAT6	PX, CT & ET
5K340	3/4"	TELEPHONE	CT–P2S02	JB–PS12	1–CAT6	CT
5K341	1 1/4"	TELEPHONE	JB–PS13	JB–PS11	1–6PR#19	FT
					3–CAT6	PX, CT & ET
5K342	3/4"	TELEPHONE	JB–PS14	JB–PS13	2–CAT6	PX & ET
5K342A	1"	TELEPHONE	JB–PS15	JB–PS13	1–6PR#19	FT
					1–CAT6	CT
5K343	1"	TELEPHONE	JB–PS17	JB–PS16	1–6PR#19	FT
					2–CAT6	PX & ET
5K344	2"	TELEPHONE/NETWORK	JB–PS18	JB–PS16	1–6PR#19	FT
					12–CAT6	PX, CT, ET & WAO
5K345	3/4"	TELEPHONE/NETWORK	JB–PS19	JB–PS18	3–CAT6	PX & WAO
5K346	1 1/2"	TELEPHONE	JB–PS20	JB–PS18	1–6PR#19	FT
					9–CAT6	PX, CT & ET
5K347	3/4"	TELEPHONE	JB–PS21	JB–PS20	3–CAT6	PX, CT & ET
5K348	3/4"	TELEPHONE	CT–P1S01	JB–PS21	1–CAT6	CT
5K349	1 1/4"	TELEPHONE	JB–PS22	JB–PS20	1–6PR#19	FT
					6–CAT6	PX, CT & ET
5K350	3/4"	TELEPHONE	JB–PS23	JB–PS22	3–CAT6	PX, CT & ET
5K351	3/4"	TELEPHONE	CT–P1S02	JB–PS23	1–CAT6	CT
5K352	1 1/4"	TELEPHONE	JB–PS24	JB–PS22	1–6PR#19	FT
					3–CAT6	PX, CT & ET
5K353	3/4"	TELEPHONE	JB–PS25	JB–PS24	2–CAT6	PX & ET
5K354	1"	TELEPHONE	JB–PS26	JB–PS24	1–6PR#19	FT
					1–CAT6	CT
5K355	2"	PSTN	TELCO INTERFACE JB	TELCO ROOM	–	EMPTY WITH PULL STRING
5K356	2"	PSTN	TELCO INTERFACE JB	TELCO ROOM	–	EMPTY WITH PULL STRING

Not For Construction

Santa Clara Valley Transportation Authority

___NO EXCEPTIONS TAKEN (NET)
___MAKE CORRECTIONS NOTED (MCN)
___AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER — RAUL A. MENDEZ LORA — E19639 EXP. 09-30-13 — ELECTRICAL — STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL
APPROVED

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 5 OF 9

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AREA CODE DB | SHEET NO. B884 | PAGE NO. 1075

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Adam

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K400	2"	CCTV	CTR#1	TCR	6-MMFO	
5K401	2"	CCTV	CTR#2	TCR	6-MMFO	
5K402	2"	CCTV	CTR#3	TCR	6-MMFO	
5K403	3/4"	CCTV	JB-CN30	CAB 95	1-CAT6	
5K404	3/4"	CCTV	TV-CN05	JB-CN30	1-CAT6	
5K405	1"	CCTV	JB-CN31	CAB 95	4-CAT6	
5K406	3/4"	CCTV	TV-CN06	JB-CN31	1-CAT6	
5K407	3/4"	CCTV	TV-CN08	JB-CN31	1-CAT6	
5K408	3/4"	CCTV	TV-CN01	JB-CN31	1-CAT6	
5K409	3/4"	CCTV	TV-CN03	JB-CN31	1-CAT6	
5K410	3/4"	CCTV	JB-CN32	CAB 95	2-CAT6	
5K411	3/4"	CCTV	TV-CN02	JB-CN32	1-CAT6	
5K412	3/4"	CCTV	JB-CN33	JB-CN32	1-CAT6	
5K413	3/4"	CCTV	TV-CN04	JB-CN33	1-CAT6	
5K414	1"	CCTV	JB-CS55	CTR#1	3-CAT6	
					2-2/C#18	
5K415	3/4"	CCTV	TV-CS20	JB-CS55	1-CAT6	
					1-2/C#18	
5K416	3/4"	CCTV	TV-CS18	JB-CS55	1-CAT6	
5K417	3/4"	CCTV	TV-CS22	JB-CS55	1-CAT6	
					1-2/C#18	
5K418	1"	CCTV	JB-CS56	CTR#1	4-CAT6	
					1-2/C#18	
5K419	3/4"	CCTV	TV-CS10	JB-CS56	1-CAT6	
5K420	3/4"	CCTV	JB-CS57	JB-CS56	3-CAT6	
					1-2/C#18	
5K421	3/4"	CCTV	TV-CS12	JB-CS57	1-CAT6	
5K422	3/4"	CCTV	JB-CS58	JB-CS57	2-CAT6	
					1-2/C#18	
5K423	3/4"	CCTV	TV-CS14	JB-CS58	1-CAT6	
					1-2/C#18	
5K424	3/4"	CCTV	TV-CS16	JB-CS58	1-CAT6	
5K425	1"	CCTV	JB-CS59	CTR#1	4-CAT6	
5K426	3/4"	CCTV	TV-GF01	JB-CS59	1-CAT6	
5K427	3/4"	CCTV	TV-GF02	JB-CS59	1-CAT6	
5K428	1 1/4"	CCTV	JB-CS68	CTR#1	4-CAT6	
					2-2/C#18	
5K429	3/4"	CCTV	TV-CS15	JB-CS68	1-CAT6	
					1-2/C#18	
5K430	3/4"	CCTV	TV-CS17	JB-CS68	1-CAT6	
5K431	3/4"	CCTV	JB-CS69	JB-CS68	2-CAT6	
					1-2/C#18	
5K432	3/4"	CCTV	TV-CS19	JB-CS69	1-CAT6	
					1-2/C#18	
5K433	3/4"	CCTV	TV-CS21	JB-CS69	1-CAT6	
5K434	2"	CCTV	JB-CS60	CTR#1	10-CAT6	
					4-2/C#18	
5K435	3/4"	CCTV	JB-CS61	JB-CS60	2-CAT6	
					1-2/C#18	
5K436	3/4"	CCTV	TV-CS02	JB-CS61	1-CAT6	
5K437	3/4"	CCTV	TV-CS04	JB-CS61	1-CAT6	
					1-2/C#18	
5K438	3/4"	CCTV	TV-CS06	JB-CS60	1-CAT6	
5K439	3/4"	CCTV	TV-CS08	JB-CS60	1-CAT6	
					1-2/C#18	

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K440	1 1/4"	CCTV	JB-CS62	JB-CS60	6-CAT6	
					2-2/C#18	
5K440A	3/4"	CCTV	TV-CS07	JB-CS62	1-CAT6	
5K441	1 1/4"	CCTV	JB-CS63	JB-CS62	5-CAT6	
					2-2/C#18	
5K442	3/4"	CCTV	JB-CS67	JB-CS63	2-CAT6	
					1-2/C#18	
5K443						
5K444						
5K445	3/4"	CCTV	TV-CS03	JB-CS67	1-CAT6	
					1-2/C#18	
5K446	3/4"	CCTV	TV-CS01	JB-CS67	1-CAT6	
5K447	1"	CCTV	JB-CS64	JB-CS63	3-CAT6	
					1-2/C#18	
5K447A	3/4"	CCTV	TV-CS09	JB-CS64	1-CAT6	
5K448	3/4"	CCTV	JB-CS65	JB-CS64	2-CAT6	
					1-2/C#18	
5K449	3/4"	CCTV	TV-CS11	JB-CS65	1-CAT6	
					1-2/C#18	
5K450	3/4"	CCTV	TV-CS13	JB-CS65	1-CAT6	
5K451	1 1/2"	CCTV	JB-PN60	CTR#2	8-CAT6	
					5-2/C#18	
5K452	3/4"	CCTV	TV-P2N09	JB-PN60	1-CAT6	
5K453	3/4"	CCTV	TV-P2N08	JB-PN60	1-CAT6	
					1-2/C#18	
5K454	1 1/4"	CCTV	JB-PN61	JB-PN60	6-CAT6	
					4-2/C#18	
5K455	3/4"	CCTV	TV-P2N07	JB-PN61	1-CAT6	
					1-2/C#18	
5K456	1 1/4"	CCTV	JB-PN62	JB-PN61	5-CAT6	
					3-2/C#18	
5K457	3/4"	CCTV	TV-P2N06	JB-PN62	1-CAT6	
5K458	3/4"	CCTV	TV-P2N05	JB-PN62	1-CAT6	
5K459	3/4"	CCTV	TV-P2N04	JB-PN62	1-CAT6	
					1-2/C#18	
5K460	3/4"	CCTV	TV-P2N10	JB-PN62	1-CAT6	
5K461	3/4"	CCTV	JB-PN63	JB-PN62	1-CAT6	
					2-2/C#18	
5K462	3/4"	CCTV	TV-P2N03	JB-PN63	1-CAT6	
					1-2/C#18	
5K463	3/4"	CCTV	TV-PN64	JB-PN63	1-2/C#18	
5K463A	3/4"	CCTV	JB-PN64	ESC RM #2	2-CAT6	MEDIA CONVERTER
5K463B	1"	CCTV	ESC RM #2	CTR #2	6-MMFO	MEDIA CONVERTER

Work For Construction

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEATRICE A. MENDEZ LORA E19639 EXP. 09-30-13 STATE OF CALIFORNIA ELECTRICAL

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL

APPROVED

VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 6 OF 9

CADD FILENAME C700-S-DB-B885.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B885 | PAGE NO. 1076

Jun 26, 2013 - 5:46pm C:\projectwise\mtv-ashrode\dms34735\C700-S-DB-B885.dwg
Adam

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K464	3/4"	CCTV	TV-P2N02	JB-PN64	1-CAT6	
					1-2/C#18	
5K465	3/4"	CCTV	TV-P2N01	JB-PN64	1-CAT6	
5K466	1 1/4"	CCTV	JB-PS30	CTR #2	3-CAT6	
					4-2/C#18	
5K467	3/4"	CCTV	TV-P2S05	JB-PS30	1-CAT6	
					1-2/C#18	
5K468	1"	CCTV	JB-PS31	JB-PS30	2-CAT6	
					3-2/C#18	
5K469	3/4"	CCTV	TV-P2S04	JB-PS31	1-CAT6	
					1-2/C#18	
5K470	3/4"	CCTV	JB-PS32	JB-PS31	1-CAT6	
					2-2/C#18	
5K471	3/4"	CCTV	TV-P2S03	JB-PS32	1-CAT6	
					1-2/C#18	
5K472A	3/4"	CCTV	JB-PS33	UTIL RM #8	2 CAT6	MEDIA CONVERTER
5K472B	1"	CCTV	UTIL RM #8	CTR #2	6-MMFO	MEDIA CONVERTER
5K472	3/4"	CCTV	JB-PS33	JB-PS32	1-2/C#18	
5K473	3/4"	CCTV	TV-P2S02	JB-PS33	1-CAT6	
					1-2/C#18	
5K474	3/4"	CCTV	TV-P2S01	JB-PS33	1-CAT6	
5K475	1 1/2"	CCTV	JB-PN65	CTR #3	8-CAT6	
					5-2/C#18	
5K476	3/4"	CCTV	TV-P1N09	JB-PN65	1-CAT6	
5K477	3/4"	CCTV	TV-P1N08	JB-PN65	1-CAT6	
					1-2/C#18	
5K478	1 1/2"	CCTV	JB-PN66	JB-PN65	6-CAT6	
					4-2/C#18	
5K479	3/4"	CCTV	TV-P1N07	JB-PN66	1-CAT6	
					1-2/C#18	
5K480	1 1/4"	CCTV	JB-PN67	JB-PN66	5-CAT6	
					3-2/C#18	
5K481	3/4"	CCTV	TV-P1N10	JB-PN67	1-CAT6	
5K482	3/4"	CCTV	TV-P1N06	JB-PN67	1-CAT6	
5K483	3/4"	CCTV	TV-P1N05	JB-PN67	1-CAT6	
5K484	1"	CCTV	JB-PN68	JB-PN67	2-CAT6	
					3-2/C#18	
5K485	3/4"	CCTV	TV-P1N04	JB-PN68	1-CAT6	
					1-2/C#18	
5K486	3/4"	CCTV	JB-PN69	JB-PN68	1-CAT6	
					2-2/C#18	
5K487	3/4"	CCTV	TV-P1N03	JB-PN69	1-CAT6	
					1-2/C#18	
5K488	3/4"	CCTV	JB-PN70	JB-PN69	1-2/C#18	
5K488A	3/4"	CCTV	JB-PN70	ESC RM #1	2-CAT6	MEDIA CONVERTER
5K488B	1"	CCTV	ESC RM #1	CTR #3	6-MMFO	MEDIA CONVERTER
5K489	3/4"	CCTV	TV-P1N02	JB-PN70	1-CAT6	
					1-2/C#18	
5K490	3/4"	CCTV	TV-P1N01	JB-PN70	1-CAT6	
5K491	1 1/4	CCTV	JB-PS34	CTR #3	3-CAT6	
					4-2/C#18	
5K492	3/4"	CCTV	TV-P1S05	JB-PS34	1-CAT6	
					1-2/C#18	
5K493	1"	CCTV	JB-PS35	JB-PS34	2-CAT6	
					3-2/C#18	

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K494	3/4"	CCTV	TV-P1S04	JB-PS35	1-CAT6	
					1-2/C#18	
5K495	3/4"	CCTV	JB-PS36	JB-PS35	1-CAT6	
					2-2/C#18	
5K496	3/4"	CCTV	TV-P1S03	JB-PS36	1-CAT6	
					1-2/C#18	
5K497	3/4"	CCTV	JB-PS37	JB-PS36	1-2/C#18	
5K497A	3/4"	CCTV	JB-PS37	UTIL RM #7	2-CAT6	MEDIA CONVERTER
5K497B	1"	CCTV	UTIL RM #7	CTR #3	6-MMFO	MEDIA CONVERTER
5K498	3/4"	CCTV	TV-P1S02	JB-PS37	1-CAT6	
					1-2/C#18	
5K499	3/4"	CCTV	TV-P1S01	JB-PS37	1-CAT6	
5K500	3/4"	CCTV	JB-C559A	JB-C559	2-CAT6	
5K501	3/4"	CCTV	TV-GF04	JB-C559A	1-CAT6	
5K502	3/4"	CCTV	TV-GF03	JB-C559A	1-CAT6	

Santa Clara Valley Transportation Authority

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Contract No.: DB11002F

By: _____ Date: _____

Not For Construction

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BRADLEY A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T.Y. LIN INTERNATIONAL

APPROVED

VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 7 OF 9

CADD FILENAME C700-S-DB-B886.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B886 | PAGE NO. 1077

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Adam

Not For Construction

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K600	2"	PUBLIC ADDRESS	CTR #1	TCR	6-MMF	
5K601	2"	PUBLIC ADDRESS	CTR #2	TCR	6-MMF	
5K602	2"	PUBLIC ADDRESS	CTR #3	TCR	6-MMF	
5K603	3/4"	PUBLIC ADDRESS	SK-CN07	TCR	1-2/C#18	SPEAKER
5K604	3/4"	PUBLIC ADDRESS	SK-CN08	TCR	1-2/C#18	SPEAKER
5K605	1"	PUBLIC ADDRESS	JB-CN40	TCR	5-2/C#18	SPEAKERS
5K606	3/4"	PUBLIC ADDRESS	SK-CN01	JB-CN40	1-2/C#18	SPEAKER
5K607	3/4"	PUBLIC ADDRESS	SK-CN02	JB-CN40	1-2/C#18	SPEAKER
5K608	3/4"	PUBLIC ADDRESS	SK-CN03	JB-CN40	1-2/C#18	SPEAKER
5K609	3/4"	PUBLIC ADDRESS	JB-CN41	JB-CN40	2-2/C#18	SPEAKERS
5K610	3/4"	PUBLIC ADDRESS	SK-CN05	JB-CN41	1-2/C#18	SPEAKER
5K611	3/4"	PUBLIC ADDRESS	SK-CN06	JB-CN41	1-2/C#18	SPEAKER
5K612	3/4"	PUBLIC ADDRESS	JB-CN42	TCR	3-2/C#18	SPEAKERS & AMBIENT NOISE SENSOR
5K613	3/4"	PUBLIC ADDRESS	SK-CN09	JB-CN42	1-2/C#18	SPEAKER
5K614	3/4"	PUBLIC ADDRESS	ANS-CN01	JB-CN42	1-2/C#18	AMBIENT NOISE SENSOR
5K615	3/4"	PUBLIC ADDRESS	SK-CN10	JB-CN42	1-2/C#18	SPEAKER
5K616	2"	PUBLIC ADDRESS	JB-CS75	CTR #1	17-2/C#18	SPEAKERS & AMBIENT NOISE SENSOR
					2-CAT6	VMS
5K617	3/4"	PUBLIC ADDRESS	SK-CS35	JB-CS75	1-2/C#18	SPEAKER
5K618	1"	PUBLIC ADDRESS	JB-CS76	JB-CS75	5-2/C#18	SPEAKERS & AMBIENT NOISE SENSOR
5K619	3/4"	PUBLIC ADDRESS	SK-CS14	JB-CS76	1-2/C#18	SPEAKER
5K620	3/4"	PUBLIC ADDRESS	SK-CS15	JB-CS76	1-2/C#18	SPEAKER
5K621	3/4"	PUBLIC ADDRESS	SK-CS16	JB-CS76	1-2/C#18	SPEAKER
5K622	3/4"	PUBLIC ADDRESS	ANS-CS01	JB-CS76	1-2/C#18	AMBIENT NOISE SENSOR
5K623	3/4"	PUBLIC ADDRESS	SK-CS13	JB-CS76	1-2/C#18	SPEAKER
5K624	1 1/2"	PUBLIC ADDRESS	JB-CS77	JB-CS75	11-2/C#18	SPEAKERS
					2-CAT6	VMS
5K625						
5K626	3/4"	PUBLIC ADDRESS	VMS #1	JB-CS77	1-CAT6	VMS
5K627	3/4"	PUBLIC ADDRESS	SK-CS12	JB-CS78	1-2/C#18	SPEAKER
5K628	3/4"	PUBLIC ADDRESS	VMS #2	JB-CS78	1-CAT6	VMS
5K629	3/4"	PUBLIC ADDRESS	SK-CS11	JB-CS78	1-2/C#18	SPEAKER
5K630	3/4"	PUBLIC ADDRESS	SK-CS10	JB-CS78	1-2/C#18	SPEAKER
5K631	1 1/2"	PUBLIC ADDRESS	JB-CS78	JB-CS77	11-2/C#18	SPEAKERS
					1-CAT6	VMS
5K632	3/4"	PUBLIC ADDRESS	SK-CS09	JB-CS78	1-2/C#18	SPEAKER
5K633	3/4"	PUBLIC ADDRESS	SK-CS08	JB-CS78	1-2/C#18	SPEAKER
5K634	3/4"	PUBLIC ADDRESS	SK-CS07	JB-CS78	1-2/C#18	SPEAKER
5K635	1"	PUBLIC ADDRESS	JB-CS80	JB-CS79	5-2/C#18	SPEAKERS
5K636	3/4"	PUBLIC ADDRESS	SK-CS05	JB-CS80	1-2/C#18	SPEAKER
5K637	3/4"	PUBLIC ADDRESS	SK-CS04	JB-CS80	1-2/C#18	SPEAKER
5K638	3/4"	PUBLIC ADDRESS	SK-CS03	JB-CS80	1-2/C#18	SPEAKER
5K639	3/4"	PUBLIC ADDRESS	JB-CS81	JB-CS80	2-2/C#18	SPEAKER
5K640	3/4"	PUBLIC ADDRESS	SK-CS02	JB-CS81	1-2/C#18	SPEAKER
5K641	3/4"	PUBLIC ADDRESS	SK-CS01	JB-CS81	1-2/C#18	SPEAKER
5K642	1"	PUBLIC ADDRESS	JB-CS82	CTR #1	4-2/C#18	SPEAKERS
5K643	3/4"	PUBLIC ADDRESS	SK-CS17	JB-CS82	1-2/C#18	SPEAKER
5K644	3/4"	PUBLIC ADDRESS	SK-CS18	JB-CS82	1-2/C#18	SPEAKER
5K645	3/4"	PUBLIC ADDRESS	SK-CS19	JB-CS82	1-2/C#18	SPEAKER
5K646	3/4"	PUBLIC ADDRESS	JB-CS83	JB-CS82	1-2/C#18	SPEAKER
5K647	3/4"	PUBLIC ADDRESS	SK-CS20	JB-CS83	1-2/C#18	SPEAKER
5K648	2"	PUBLIC ADDRESS	JB-CS84	CTR #1	18-2/C#18	SPEAKERS
					1-CAT6	VMS
5K649	1"	PUBLIC ADDRESS	JB-CS85	JB-CS84	4-2/C#18	SPEAKERS

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K650	3/4"	PUBLIC ADDRESS	SK-CS36	JB-CS85	1-2/C#18	SPEAKER
5K651	3/4"	PUBLIC ADDRESS	SK-CS37	JB-CS85	1-2/C#18	SPEAKER
5K652	3/4"	PUBLIC ADDRESS	SK-CS38	JB-CS85	1-2/C#18	SPEAKER
5K653	3/4"	PUBLIC ADDRESS	JB-CS86	JB-CS85	1-2/C#18	SPEAKER
5K654	3/4"	PUBLIC ADDRESS	SK-CS39	JB-CS86	1-2/C#18	SPEAKER
5K655	3/4"	PUBLIC ADDRESS	SK-CS06	JB-CS84	1-2/C#18	SPEAKER
5K656	2"	PUBLIC ADDRESS	JB-CS87	JB-CS84	13-2/C#18	SPEAKERS
					1-CAT6	VMS
5K657	3/4"	PUBLIC ADDRESS	SK-CS32	JB-CS87	1-2/C#18	SPEAKER
5K658	3/4"	PUBLIC ADDRESS	SK-CS33	JB-CS87	1-2/C#18	SPEAKER
5K659	3/4"	PUBLIC ADDRESS	SK-CS34	JB-CS87	1-2/C#18	SPEAKER
5K660						
5K661	1 1/2"	PUBLIC ADDRESS	JB-CS88	JB-CS87	10-2/C#18	SPEAKERS
					1-CAT6	VMS
5K662	3/4"	PUBLIC ADDRESS	SK-CS29	JB-CS88	1-2/C#18	SPEAKER
5K663	3/4"	PUBLIC ADDRESS	SK-CS30	JB-CS88	1-2/C#18	SPEAKER
5K664	3/4"	PUBLIC ADDRESS	VMS #3	JB-CS88	1-CAT6	VMS
5K665	3/4"	PUBLIC ADDRESS	SK-CS27	JB-CS88	1-2/C#18	SPEAKER
5K666	3/4"	PUBLIC ADDRESS	SK-CS26	JB-CS88	1-2/C#18	SPEAKER
5K667	3/4"	PUBLIC ADDRESS	SK-CS25	JB-CS88	1-2/C#18	SPEAKER
5K668	3/4"	PUBLIC ADDRESS	SK-CS28	JB-CS88	1-2/C#18	SPEAKER
5K669	1"	PUBLIC ADDRESS	JB-CS89	JB-CS88	4-2/C#18	SPEAKERS
5K670	3/4"	PUBLIC ADDRESS	SK-CS21	JB-CS89	1-2/C#18	SPEAKER
5K671	3/4"	PUBLIC ADDRESS	SK-CS22	JB-CS89	1-2/C#18	SPEAKER
5K672	3/4"	PUBLIC ADDRESS	SK-CS23	JB-CS89	1-2/C#18	SPEAKER
5K673	3/4"	PUBLIC ADDRESS	SK-CS24	JB-CS89	1-2/C#18	SPEAKER
5K674	1 1/4"	PUBLIC ADDRESS	SK-P2N29	CTR #2	2-2/C#18	SPEAKERS
5K675	1 1/4"	PUBLIC ADDRESS	SK-P2N28	SK-P2N29	2-2/C#18	SPEAKERS
5K676	1"	PUBLIC ADDRESS	SK-P2N27	SK-P2N28	2-2/C#18	SPEAKERS
5K677	1"	PUBLIC ADDRESS	SK-P2N26	SK-P2N27	2-2/C#18	SPEAKERS
5K678	3/4"	PUBLIC ADDRESS	SK-P2N25	SK-P2N26	2-2/C#18	SPEAKERS
5K679	3/4"	PUBLIC ADDRESS	SK-P2N24	SK-P2N25	2-2/C#18	SPEAKERS
5K680	3/4"	PUBLIC ADDRESS	SK-P2N23	SK-P2N24	1-2/C#18	SPEAKERS
5K681	2 1/2"	PUBLIC ADDRESS	SLPA-P2	CTR #2	2-2/C#18	SPEAKERS
5K681A	2 1/2"	PUBLIC ADDRESS	SLPA-P2	CTR #2	2-2/C#18	SPEAKERS
5K682	3/4"	PUBLIC ADDRESS	JB-PS51	JB-PS50	4-2/C#18	SPEAKERS
5K683	3/4"	PUBLIC ADDRESS	SK-P2S21	JB-PS51	2-2/C#18	SPEAKERS
5K684	3/4"	PUBLIC ADDRESS	SK-P2S22	JB-PS51	2-2/C#18	SPEAKERS
5K685	3/4"	PUBLIC ADDRESS	SK-P2S23	JB-PS54	1-2/C#18	SPEAKERS
5K686	3/4"	PUBLIC ADDRESS	JB-PN81	JB-PN80	4-2/C#18	SPEAKERS
5K687	3/4"	PUBLIC ADDRESS	SK-P2N22	JB-PN81	2-2/C#18	SPEAKERS
5K688	3/4"	PUBLIC ADDRESS	SK-P2N21	JB-PN81	2-2/C#18	SPEAKERS
5K689	3/4"	PUBLIC ADDRESS	SK-P2N30	JB-PN82	1-2/C#18	SPEAKERS
5K690	1 1/4"	PUBLIC ADDRESS	SK-P1N29	CTR #3	2-2/C#18	SPEAKERS
5K691	1 1/4"	PUBLIC ADDRESS	SK-P1N28	SK-P1N29	2-2/C#18	SPEAKERS
5K692	1"	PUBLIC ADDRESS	SK-P1N27	SK-P1N28	2-2/C#18	SPEAKERS
5K693	1"	PUBLIC ADDRESS	SK-P1N26	SK-P1N27	2-2/C#18	SPEAKERS

Santa Clara Valley Transportation Authority

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Contract No.: DB11002F

By: ____________ Date: ____________

Adam Jun 26, 2013 - 5:48pm C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B887.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

PROFESSIONAL ENGINEER · REGISTERED · E19639 · EXP. 09-30-13 · ELECTRICAL · STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc.
T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 8 OF 9

CADD FILENAME C700-S-DB-B887.dwg
SIZE D
SCALE NONE
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. B887
PAGE NO. 1078

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K694	3/4"	PUBLIC ADDRESS	SK–P1N25	SK–P1N26	2–2/C#18	SPEAKERS
5K695	3/4"	PUBLIC ADDRESS	SK–P1N24	SK–P1N25	2–2/C#18	SPEAKERS
5K696	3/4"	PUBLIC ADDRESS	SK–P1N23	SK–P1N24	1–2/C#18	SPEAKERS
5K697	2 1/2"	PUBLIC ADDRESS	SLPA–P1	CTR #3	2–2/C#18	SPEAKERS
5K697A	2 1/2"	PUBLIC ADDRESS	SLPA–P1	CTR #3	2–2/C#18	SPEAKERS
5K698	3/4"	PUBLIC ADDRESS	JB–PS53	JB–PS52	4–2/C#18	SPEAKERS
5K699	3/4"	PUBLIC ADDRESS	SK–P1S21	JB–PS53	2–2/C#18	SPEAKERS
5K700	3/4"	PUBLIC ADDRESS	SK–P1S22	JB–PS53	2–2/C#18	SPEAKERS
5K701	3/4"	PUBLIC ADDRESS	SK–P1S23	JB–PS55	1–2/C#18	SPEAKERS
5K702	3/4"	PUBLIC ADDRESS	JB–PN84	JB–PN83	4–2/C#18	SPEAKERS
5K703	3/4"	PUBLIC ADDRESS	SK–P1N22	JB–PN84	2–2/C#18	SPEAKERS
5K704	3/4"	PUBLIC ADDRESS	SK–P1N21	JB–PN84	2–2/C#18	SPEAKERS
5K705	3/4"	PUBLIC ADDRESS	SK–P1N30	JB–PN85	1–2/C#18	SPEAKERS
5K706	3/4"	PUBLIC ADDRESS	VMS#4	CTR#1	1–CAT6	VMS

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS

Work For Construction

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED LTK Engineering Services (LTK) — Skanska Shimmick Herzog, 1436 California Circle, Milpitas, California 95035, A Joint Venture

APPROVED Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY — T·Y LIN INTERNATIONAL

VTA BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 9 OF 9

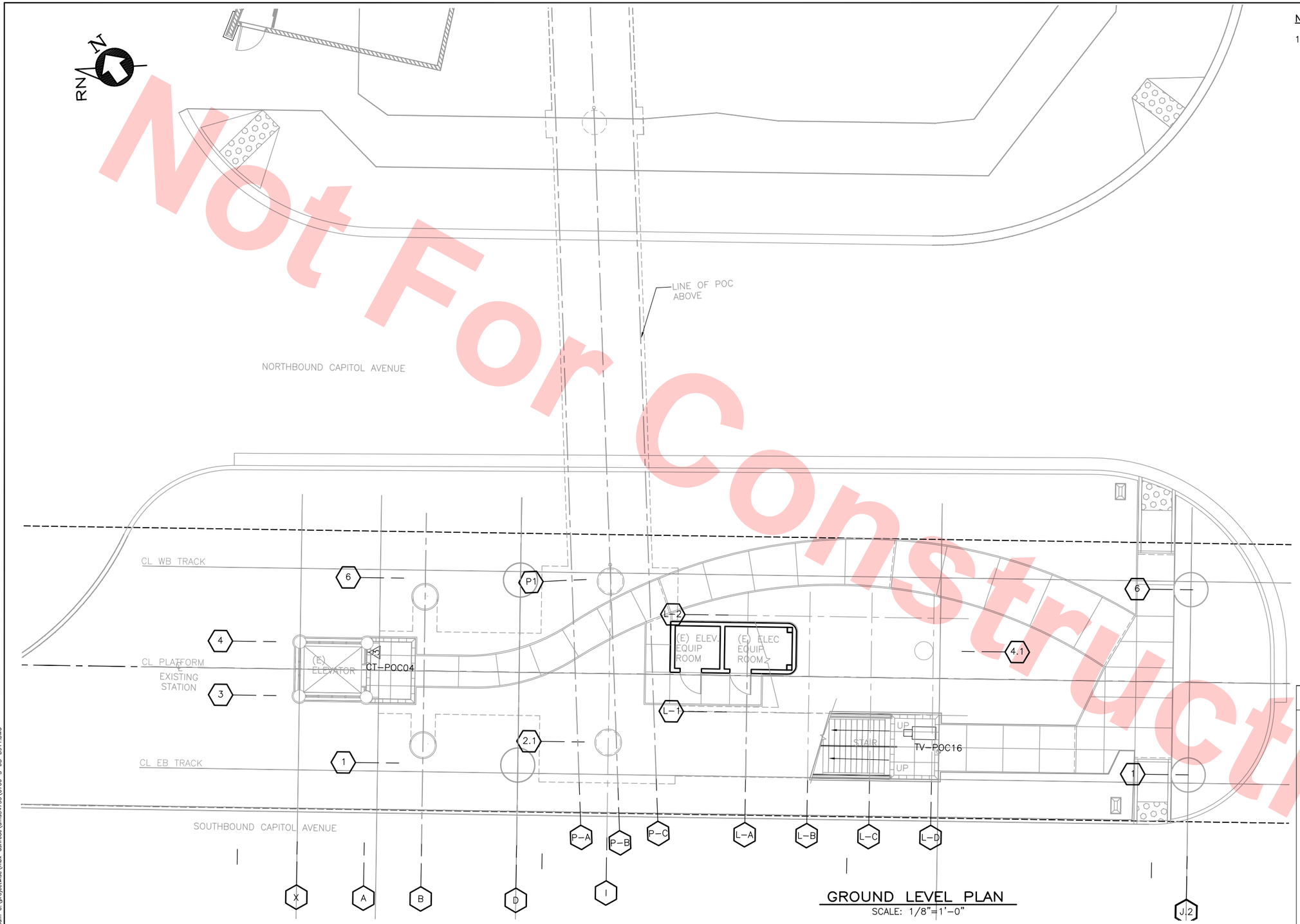
CADD FILENAME C700–S–DB–B888.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B888 | PAGE NO. 1079

Jun 26, 2013 - 5:45pm C:\projectwise\mtbr--ashrode\dms34735\C700–S–DB–B888.dwg
Adam

Not For Construction

NOTE:

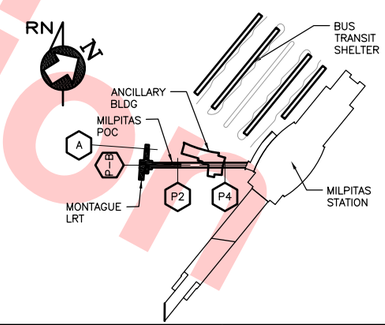
1. REFER TO RISER DIAGRAMS AND CONDUIT SCHEDULES FOR ROUTING DETAILS AND REQUIREMENTS.



GROUND LEVEL PLAN
SCALE: 1/8"=1'-0"

8' 0' 8' 16'
GRAPHIC SCALE

KEY PLAN



Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

SUBMITTED LTK Engineering Services

APPROVED Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y LIN INTERNATIONAL

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
POC
COMMUNICATIONS EQUIPMENT LAYOUT
GROUND LEVEL PLAN

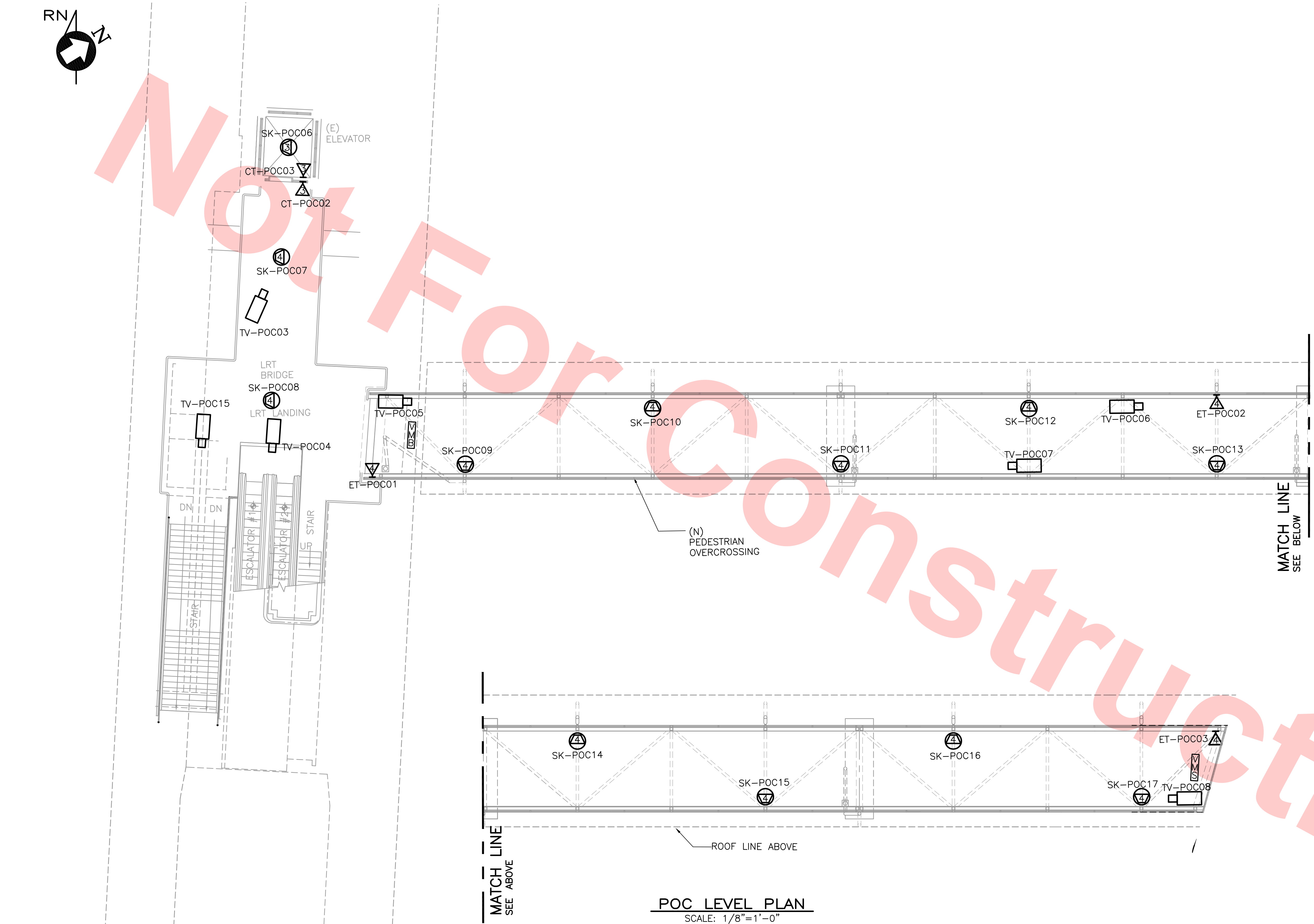
CADD FILENAME C700-S-DB-B911.dwg
SIZE D | SCALE 1/8"=1'-0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B911 | PAGE NO. 1080

Adam Jun 21, 2013 - 9:18am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B911.DWG

Not For Construction

NOTE:

1. REFER TO RISER DIAGRAMS AND CONDUIT SCHEDULES FOR ROUTING DETAILS AND REQUIREMENTS.



POC LEVEL PLAN

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

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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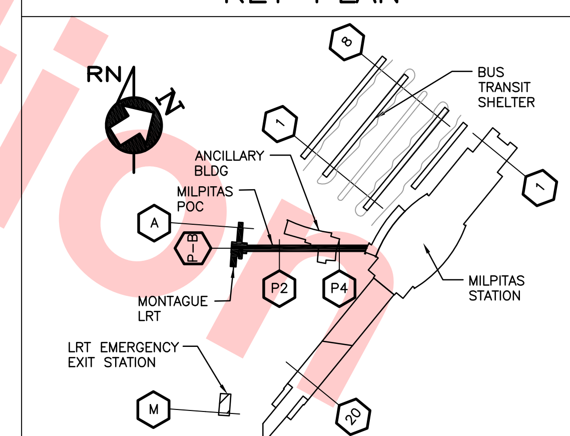
Contract No.: DB11002F

By: ________ Date: ________

KEY PLAN



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle, Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. T·Y·LIN INTERNATIONAL
APPROVED

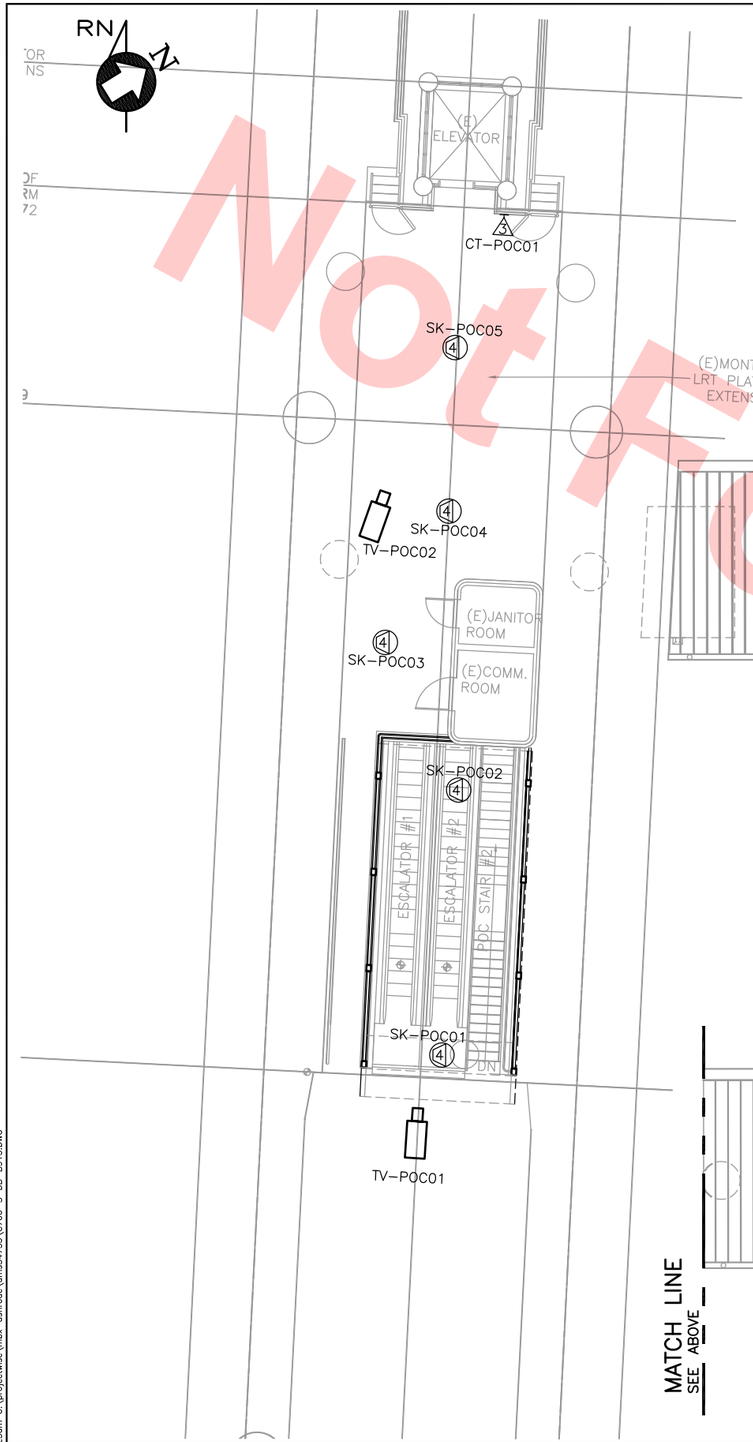
VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

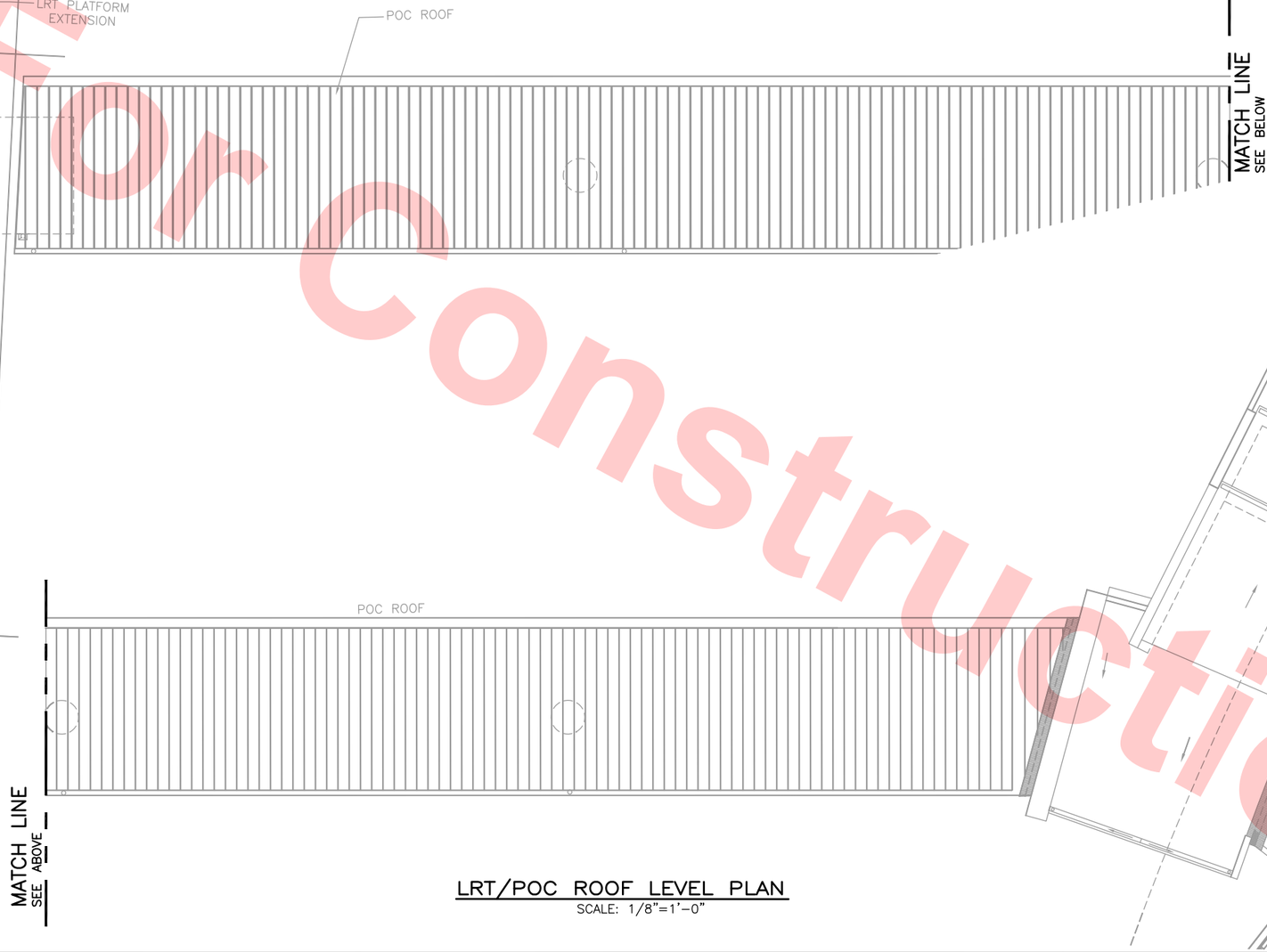
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
POC
COMMUNICATIONS EQUIPMENT LAYOUT
BRIDGE LEVEL PLAN

CADD FILENAME C700-S-DB-B912.dwg
SIZE D
SCALE 1/8"=1'-0"
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. B912
PAGE NO. 1081

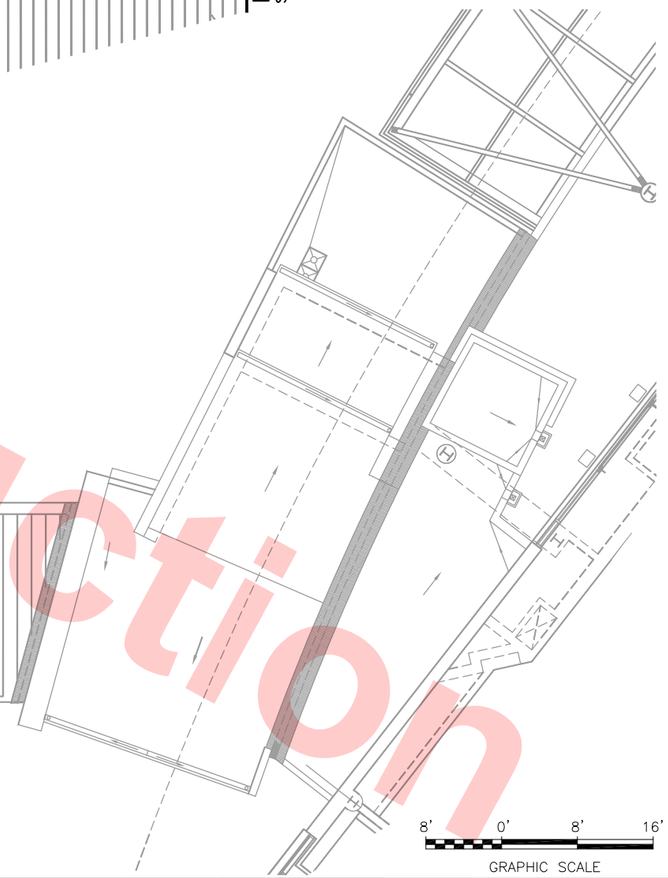
Adam Jun 20, 2013 - 9:29am C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B912.DWG

Not For Construction





LRT/POC ROOF LEVEL PLAN
SCALE: 1/8"=1'–0"



Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ **Date:** _____

NOTE:

1. REFER TO RISER DIAGRAMS AND CONDUIT SCHEDULES FOR ROUTING DETAILS AND REQUIREMENTS.

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. COLUCKI
DRAWN BY B. COOPER
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19839 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED _____

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y·LIN INTERNATIONAL
APPROVED _____

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
POC
COMMUNICATIONS EQUIPMENT LAYOUT
LRT PLATFORM LEVEL PLAN

CADD FILENAME C700–S–DB–B913.dwg
SIZE D | SCALE 1/8"=1'–0"
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B913 | PAGE NO. 1082

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CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K1000	2"	PUBLIC ADDRESS	JB–VTA1	VTA COMM RM	3–2/C#18	SPEAKERS
5K1001	3/4"	PUBLIC ADDRESS	SK–POC18	JB–VTA1	1–2/C#18	SPEAKERS
5K1002	3/4"	PUBLIC ADDRESS	SK–POC19	JB–VTA1	2–2/C#18	SPEAKERS
5K1003	3/4"	PUBLIC ADDRESS	SK–POC20	SK–POC19	1–2/C#18	SPEAKERS
5K1004	3/4"	PUBLIC ADDRESS	SK–POC17	JB–VTA2	2–2/C#18	SPEAKERS
5K1005	3/4"	PUBLIC ADDRESS	SK–POC16	JB–VTA2	2–2/C#18	SPEAKERS
5K1006	3/4"	PUBLIC ADDRESS	SK–POC15	JB–VTA2	2–2/C#18	SPEAKERS
5K1007	3/4"	PUBLIC ADDRESS	JB–VTA3	JB–VTA2	2–2/C#18	SPEAKERS
					1–CAT6	VMB
5K1008	3/4"	PUBLIC ADDRESS	SK–POC14	JB–VTA3	2–2/C#18	SPEAKERS
5K1009	3/4"	PUBLIC ADDRESS	SK–POC13	JB–VTA3	2–2/C#18	SPEAKERS
5K1010	3/4"	PUBLIC ADDRESS	SK–POC12	JB–VTA3	2–2/C#18	SPEAKERS
5K1011	3/4"	PUBLIC ADDRESS	JB–VTA4	JB–VTA3	2–2/C#18	SPEAKERS
					1–CAT6	VMB
5K1011A	3/4"	PUBLIC ADDRESS	SK–POC11	JB–VTA4	2–2/C#18	SPEAKERS
5K1012	3/4"	PUBLIC ADDRESS	SK–POC09	JB–VTA4	1–1/C#18	SPEAKERS
5K1013	3/4"	PUBLIC ADDRESS	VMB	JB–VTA4	1–CAT6	VMB
5K1014	3/4"	PUBLIC ADDRESS	SK–POC10	JB–VTA4	2–2/C#18	SPEAKERS
5K1015	1"	PUBLIC ADDRESS	JB–VTA5	LRT COMM RM	5–2/C#18	SPEAKERS
5K1016	3/4"	PUBLIC ADDRESS	SK–POC03	JB–VTA5	1–2/C#18	SPEAKERS
5K1017	3/4"	PUBLIC ADDRESS	SK–POC02	JB–VTA5	2–2/C#18	SPEAKERS
5K1018	3/4"	PUBLIC ADDRESS	SK–POC01	SK–POC02	1–2/C#18	SPEAKERS
5K1019	3/4"	PUBLIC ADDRESS	SK–POC04	JB–VTA5	2–2/C#18	SPEAKERS
5K1020	3/4"	PUBLIC ADDRESS	SK–POC05	SK–POC04	1–2/C#18	SPEAKERS
5K1021	3/4"	PUBLIC ADDRESS	JB–VTA6	LRT COMM RM	3–2/C#18	SPEAKERS
5K1022	3/4"	PUBLIC ADDRESS	SK–POC08	JB–VTA6	1–2/C#18	SPEAKERS
5K1023	3/4"	PUBLIC ADDRESS	SK–POC07	JB–VTA6	2–2/C#18	SPEAKERS
5K1024	3/4"	PUBLIC ADDRESS	SK–POC06	SK–POC07	1–2/C#18	SPEAKERS
5K1025	3/4"	PUBLIC ADDRESS	SK–TC09	VTA COMM CAB	3–2/C#18	SPEAKERS
5K1026	3/4"	PUBLIC ADDRESS	SK–TC08	SK–TC09	1–2/C#18	SPEAKERS
5K1027	3/4"	PUBLIC ADDRESS	SK–TC10	SK–TC09	2–2/C#18	SPEAKERS
5K1028	3/4"	PUBLIC ADDRESS	SK–TC11	SK–TC10	1–2/C#18	SPEAKERS
5K1029	3/4"	PUBLIC ADDRESS	SK–TC13	VTA COMM CAB	3–2/C#18	SPEAKERS
5K1030	3/4"	PUBLIC ADDRESS	SK–TC12	SK–TC13	1–2/C#18	SPEAKERS
5K1031	3/4"	PUBLIC ADDRESS	SK–TC14	SK–TC13	2–2/C#18	SPEAKERS
5K1032	3/4"	PUBLIC ADDRESS	SK–TC15	SK–TC14	1–2/C#18	SPEAKERS
5K1033	3/4"	PUBLIC ADDRESS	SK–TC05	VTA COMM CAB	3–2/C#18	SPEAKERS
5K1034	3/4"	PUBLIC ADDRESS	SK–TC04	SK–TC05	1–2/C#18	SPEAKERS
5K1035	3/4"	PUBLIC ADDRESS	SK–TC06	SK–TC05	2–2/C#18	SPEAKERS
5K1036	3/4"	PUBLIC ADDRESS	SK–TC07	SK–TC06	1–2/C#18	SPEAKERS
5K1037	3/4"	PUBLIC ADDRESS	SK–TC02	VTA COMM CAB	2–2/C#18	SPEAKERS
5K1038	3/4"	PUBLIC ADDRESS	SK–TC01	SK–TC02	2–2/C#18	SPEAKERS
5K1039	3/4"	PUBLIC ADDRESS	SK–TC03	SK–TC02	1–2/C#18	SPEAKERS
5K1040	3/4"	TELEPHONE	PX–POC03	JB–VTA7	1–6PR#24	BUS OPERATOR PHONE
5K1041	3/4"	TELEPHONE	ET–POC04	JB–VTA7	1–6PR#24	BIKE STORAGE AREA ET
5K1042	3/4"	TELEPHONE	JB–VTA8	JB–VTA7	3–6PR#24	ET PHONES
5K1043	3/4"	TELEPHONE	ET–POC03	JB–VTA8	1–6PR#24	ET POC
5K1044	3/4"	TELEPHONE	JB–VTA9	JB–VTA8	2–6PR#24	ET PHONES
5K1045	3/4"	TELEPHONE	ET–POC02	JB–VTA9	1–6PR#24	ET POC
5K1046	3/4"	TELEPHONE	ET–POC01	JB–VTA9	1–6PR#24	ET POC
5K1047	3/4"	TELEPHONE	JB–VTA10	LRT COMM RM	4–6PR#24	COURTESY PHONES
5K1048	3/4"	TELEPHONE	CT–POC03	JB–VTA10	1–6PR#24	CT
5K1049	3/4"	TELEPHONE	CT–POC01	JB–VTA10	1–6PR#24	CT
5K1050	3/4"	TELEPHONE	CT–POC02	JB–VTA10	1–6PR#24	CT
5K1051	3/4"	TELEPHONE	CT–POC04	JB–VTA10	1–6PR#24	CT
5K1052	3/4"	TELEPHONE	ET–TC01	VTA COMM CAB	1–6PR#24	ET

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K1053	3/4"	TELEPHONE	JB–VTA13	VTA COMM CAB	2–6PR#24	ET
5K1054	3/4"	TELEPHONE	ET–TC02	JB–VTA13	1–6PR#24	ET
5K1055	3/4"	TELEPHONE	ET–TC03	JB–VTA13	1–6PR#24	ET
5K1056	1"	TELEPHONE & NETWORK	JB–VTA12	VTA COMM RM	2–6PR#24	PHONES & WAO
					4–CAT6	
5K1057	3/4"	TELEPHONE	PX–POC02	JB–VTA12	1–6PR#24	VTA PHONE
5K1058	3/4"	NETWORK	WO–POC02	JB–VTA12	2–CAT6	VTA WAO
5K1059	3/4"	TELEPHONE & NETWORK	JB–VTA11	JB–VTA12	1–6PR#24	PHONES & WAO
					2–CAT6	
5K1060	3/4"	TELEPHONE	PX–POC01	JB–VTA11	1–6PR#24	VTA PHONE
5K1061	3/4"	NETWORK	WO–POC01	JB–VTA11	2–CAT6	VTA WAO
5K1062	1"	ACCESS CONTROL	JB–VTA14	VTA COMM RM	2–4/C#22	REX
					2–2/C#18	MAGNETIC CONTACT
					2–4/C#18	ELECTRIC LOCK
					2–6/C#18	CARD READER
5K1063						
5K1064	3/4"	ACCESS CONTROL	JB–VTA16	JB–VTA14	1–4/C#22	REX
					1–2/C#18	MAGNETIC CONTACT
					1–4/C#18	ELECTRIC LOCK
					1–6/C#18	CARD READER
5K1065	3/4"	ACCESS CONTROL	JB–VTA17	JB–VTA14	1–4/C#22	REX
					1–2/C#18	MAGNETIC CONTACT
					1–4/C#18	ELECTRIC LOCK
					1–6/C#18	CARD READER
5K1066	3/4"	ACCESS CONTROL	JB–VTA18	JB–VTA17	1–4/C#22	REX
					1–2/C#18	MAGNETIC CONTACT
					1–4/C#18	ELECTRIC LOCK
					1–6/C#18	CARD READER
5K1067	3/4"	CCTV	TV–POC08	JB–VTA19	1–CAT6	
					1–2/C#18	
5K1068	1 1/4"	CCTV	JB–VTA20	JB–VTA19	3–CAT6	
					3–2/C#18	
5K1069	3/4"	CCTV	TV–POC06	JB–VTA20	1–CAT6	
					1–2/C#18	
5K1070	3/4"	CCTV	TV–POC07	JB–VTA20	1–CAT6	
					1–2/C#18	
5K1071	3/4"	CCTV	TV–POC05	JB–VTA20	1–CAT6	
					1–2/C#18	
5K1072	1 1/4"	CCTV	JB–VTA21	VTA COMM RM	3–CAT6	
					3–2/C#18	
5K1073	3/4"	CCTV	TV–POC13	JB–VTA21	1–CAT6	
					1–2/C#18	

Not For Construction

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

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Contract No.: DB11002F

By: _____ Date: _____

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BENJAMIN A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

SUBMITTED

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY
T·Y·LIN INTERNATIONAL

APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
VTA COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 1 OF 2

CADD FILENAME C700–S–DB–B990.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B990 | PAGE NO. 1083

Bentley Jun 27, 2013 – 12:20pm C:\projectwise\copy of copy of mbx–template (13)\dms34735\C700–S–DB–B990.dwg

Not For Construction

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
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					1–2/C#18	
5K1075	3/4"	CCTV	TV–POC09	JB–VTA21	1–CAT6	
					1–2/C#18	
5K1076	1 1/4"	CCTV	JB–VTA22	VTA COMM RM	3–CAT6	
					3–2/C#18	
5K1077	1"	CCTV	JB–VTA23	JB–VTA22	2–CAT6	
					2–2/C#18	
5K1078	3/4"	CCTV	TV–POC11	JB–VTA23	1–CAT6	
					1–2/C#18	
5K1079	3/4"	CCTV	TV–POC12	JB–VTA23	1–CAT6	
					1–2/C#18	
5K1080	3/4"	CCTV	TV–POC14	JB–VTA22	1–CAT6	
					1–2/C#18	
5K1081	1"	CCTV	JB–VTA24	LRT COMM RM	2–CAT6	
					2–2/C#18	
5K1082	3/4"	CCTV	TV–POC01	JB–VTA24	1–CAT6	
					1–2/C#18	
5K1083	3/4"	CCTV	TV–POC02	JB–VTA24	1–CAT6	
					1–2/C#18	
5K1084	1 1/4"	CCTV	JB–VTA25	LRT COMM RM	3–CAT6	
					3–2/C#18	
5K1085	3/4"	CCTV	TV–POC04	JB–VTA25	1–CAT6	
					1–2/C#18	
5K1086	3/4"	CCTV	TV–POC15	JB–VTA25	1–CAT6	
					1–2/C#18	
5K1087	3/4"	CCTV	TV–POC03	JB–VTA25	1–CAT6	
					1–2/C#18	
5K1088	1"	CCTV	JB–VTA26	VTA COMM CAB	2–CAT6	
					2–2/C#18	
5K1089	1"	CCTV	JB–VTA27	VTA COMM CAB	2–CAT6	
					2–2/C#18	
5K1090	1"	CCTV	JB–VTA28	VTA COMM CAB	2–CAT6	
					2–2/C#18	
5K1091	3/4"	CCTV	TV–TC05	JB–VTA26	1–CAT6	
					1–2/C#18	
5K1092	3/4"	CCTV	TV–TC06	JB–VTA26	1–CAT6	
					1–2/C#18	
5K1093	3/4"	CCTV	TV–TC03	JB–VTA27	1–CAT6	
					1–2/C#18	
5K1094	3/4"	CCTV	TV–TC04	JB–VTA27	1–CAT6	
					1–2/C#18	
5K1095	3/4"	CCTV	TV–TC01	JB–VTA28	1–CAT6	
					1–2/C#18	
5K1096	3/4"	CCTV	TV–TC02	JB–VTA28	1–CAT6	
					1–2/C#18	
5K1097	3/4"	CCTV	TV–POC16	VTA LRT COMM RM	1–CAT6	
					1–2/C#18	
5K2000	2"	VTA	EXIST VTA LRT COMM RM	VTA COMM RM	48–SMFO	
5K2001	2"	VTA	EXIST VTA LRT COMM RM	VTA COMM RM	–	EMPTY WITH PULL STRING
5K2002	2"	VTA	EXIST VTA LRT COMM RM	VTA COMM RM	–	EMPTY WITH PULL STRING
5K2003	2"	VTA	EXIST VTA LRT COMM RM	VTA COMM RM	–	EMPTY WITH PULL STRING
5K2005	2"	VTA	VTA COMM CABINET	VTA COMM RM	6–MMFO	
5K2006	2"	VTA	VTA COMM CABINET	VTA COMM RM	–	EMPTY WITH PULL STRING

CONDUIT		FOR	FROM	TO	CABLE	
ID	SIZE				SIZE	REMARKS
5K2007	2"	VTA	VTA COMM CABINET	VTA COMM RM	–	EMPTY WITH PULL STRING
5K2008	2"	VTA	VTA COMM CABINET	VTA COMM RM	–	EMPTY WITH PULL STRING
5K2014	2"	PUBLIC ADDRESS SPARE	JB–VTA30	VTA COMM RM	–	EMPTY WITH PULL STRING
5K2015	2"	SPEAKERS	JB–VTA2	VTA COMM RM	2–2/C#18	SKEAPERS
					1–CAT6	VMB
5K2016	2"	CCTV	JB–VTA19	VTA COMM RM	4–2/C#18	
					4–CAT6	
5K2017	2"	CCTV SPARE	JB–VTA31	VTA COMM RM	–	EMPTY WITH PULL STRING
5K2018	2"	TELEPHONE	JB–VTA7	VTA COMM RM	5–6PR#24	ET + PX
5K2019	2"	TELEPHONE SPARE	JB–VTA32	VTA COMM RM	–	EMPTY WITH PULL STRING

Santa Clara Valley Transportation Authority

____NO EXCEPTIONS TAKEN (NET)
____MAKE CORRECTIONS NOTED (MCN)
____AMEND AND RESUBMIT (A/R)

Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: ____________ Date: ____________

Adam Jun 26, 2013 – 5:48pm C:\projectwise\mbx-ashrode\dms34735\C700-S-DB-B991.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY M. GOLUCKI
DRAWN BY A. SHRODE
CHECKED BY B. MENDEZ LORA
IN CHARGE B. MENDEZ LORA
DATE 20130710

REGISTERED PROFESSIONAL ENGINEER BEATRIZ A. MENDEZ LORA E19639 EXP. 09-30-13 ELECTRICAL STATE OF CALIFORNIA

Skanska Shimmick Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture

LTK Engineering Services
SUBMITTED

Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY | T·Y·LIN INTERNATIONAL
APPROVED

VTA BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
VTA COMMUNICATION SYSTEMS
CONDUIT AND CABLE SCHEDULE
SHEET 2 OF 2

CADD FILENAME C700–S–DB–B991.dwg
SIZE D | SCALE NONE
CONTRACT NO. C700 | REV. 0
AREA CODE DB | SHEET NO. B991