



SSH JV

Milpitas Station Design Unit 023 Readiness for Construction Landscaping

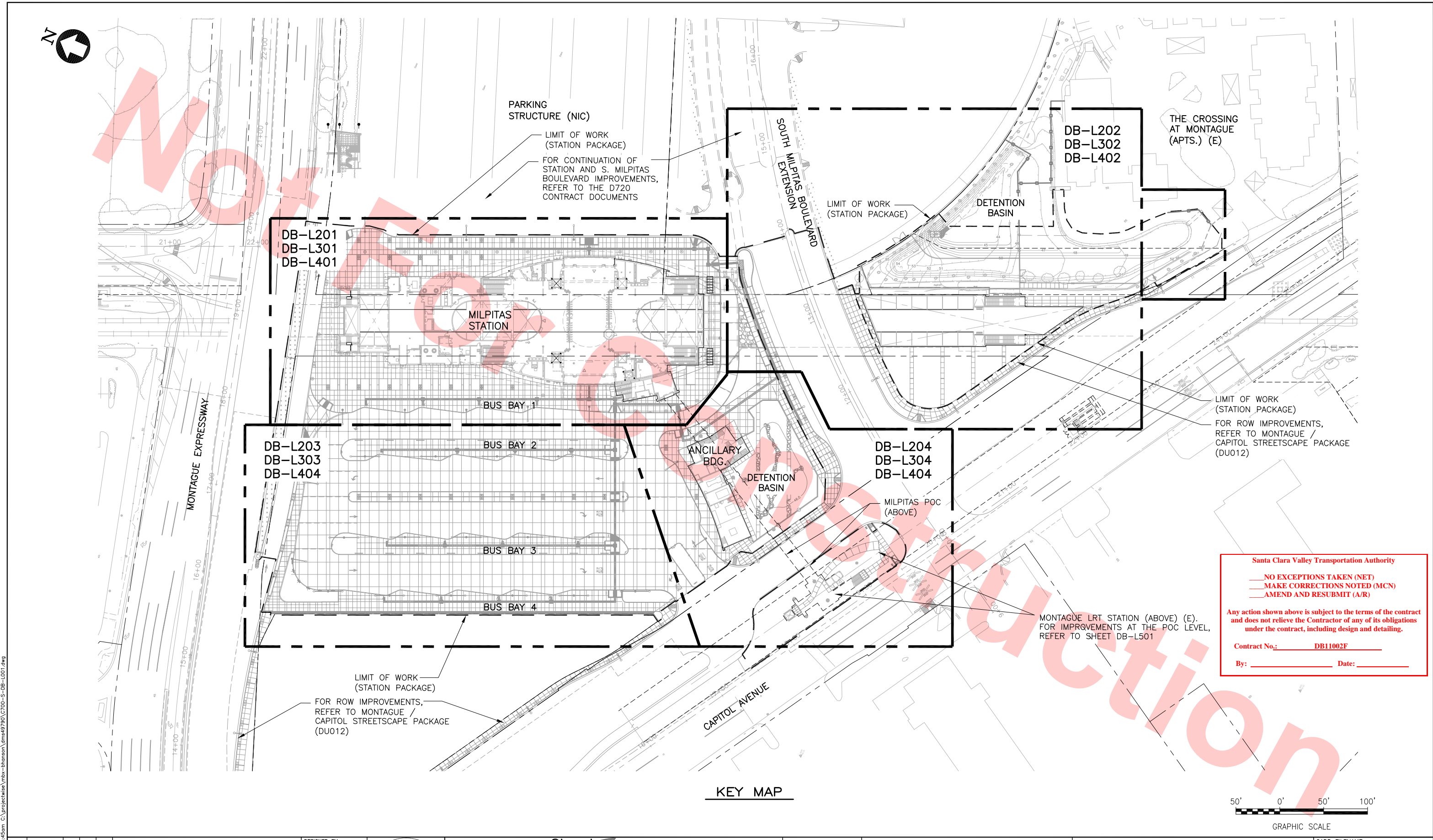
SVBX C700

Wednesday, July 10, 2013

HALF SIZE
COPY



TYLIN INTERNATIONAL
engineers | planners | scientists



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: _____

						DESIGNED BY J. KEENAN		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture	 1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339	 A LEOPOLD & RALPH COMPANY	T-Y LIN INTERNATIONAL 	 BART SILICON VALLEY BERRYESSA EXTENSION	LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION DRAWING LAYOUT INDEX	CADD FILENAME C700-S-DB-L001.dwg						
						DRAWN BY B. HANSON								SIZE SCALE D 1" = 50'-0"	CONTRACT NO. C700	REV. 0				
						CHECKED BY W. ARATA														
						IN CHARGE R. BARLAAN														
						DATE 20130710								AREA CODE DB	SHEET NO. L001	PAGE NO. 0094				
0	20130710				READINESS FOR CONSTRUCTION															
REV	DATE	BY	SUB	APP	DESCRIPTION															

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ABBREVIATIONS

AC	ASPHALT CONCRETE	N	NORTH
AD	AREA DRAIN	NC	NORMALLY CLOSED
ADJ	ADJACENT	NIC	NOT IN CONTRACT
ALT. BID	ALTERNATIVE BID	NO	NUMBER
APPROX	APPROXIMATE	NTS	NOT TO SCALE
ARCH	ARCHITECT'S	OAR	OWNER'S AUTHORIZED REPRESENTATIVE
AANS	AMERICAN STANDARD FOR NURSERY STOCK	O.C.	ON CENTER
BC	BEGINNING OF CURVE	OD	OUTSIDE DIAMETER
BL	BASE LINE	OFI	OWNER FURNISHED ITEM
BLDG	BUILDING	OFCL	OWNER FURNISHED
BOC	BACK OF CURB	OPNG	CONTRACTOR INSTALLED OPENING
BOP	BOTTOM OF PIPE	PA	PLANTING AREA
BOT	BOTTOM	PED	PEDESTRIAN
BW	BOTTOM OF WALL	PCV	PRESSURE CONTROL VALVE
CALC	CALCULATED/CALCULATION	PI	POINT OF INTERSECTION
CB	CATCH BASIN	PIP	POURED-IN-PLACE
CFS	CUBIC FEET PER SECOND	PL	PROPERTY LINE
CI	CAST IRON	POC	POINT OF CONNECTION
CIP	CAST IN PLACE	POC	PEDESTRIAN OVERHEAD CROSSING
CL	CENTERLINE	PREP	PREPARATION
CLR	CLEARANCE, CLEAR	PRC	POINT OF REVERSE CURVE
CO	CLEANOUT	PSI	POUNDS PER SQUARE INCH
COL	COLUMN	PT	POINT OF TANGENT
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONN	CONNECTION	PVMT	PAVEMENT
CONST	CONSTRUCTION	R, RAD.	RADIUS
CONT	CONTINUE, CONTINUOUS	REBAR	REINFORCEMENT BAR
COTG	CLEAN OUT TO GRADE	RD	ROAD
CPLG	COUPLING	RED	REDUCER
CW	POTABLE WATER	REF	REFERENCE
CPB	COMMUNICATION PULL BOX	REINF	REINFORCED
DBL	DOUBLE STORM DRAIN	REQD	REQUIRED
DCO	DRAIN CLEANOUT	REV	REVISE, REVISION
DET	DETAIL	ROW	RIGHT OF WAY
DIA	DIAMETER OR ROUND	RP	RADIUS POINT
DIP	DUCTILE IRON PIPE	S	SEWER, SOUTH
DMH	DRAIN MANHOLE	SCH	SCHEDULE
DWG	DRAWING	SCO	SEWER CLEANOUT
DWGS	DRAWINGS	SHT	SHEET
E	EAST	SIM	SIMILAR
EA	EACH	SMH	SEWER MANHOLE
EC	END OF CURVE	SPEC	SPECIFICATIONS
ELEC	ELECTRICAL	STA	STATION
ELEV, EL	ELEVATION	STD	STANDARD
EMH	ELECTRICAL MANHOLE	STL	STEEL
EPB	ELECTRICAL PULL BOX	STRUCT	STRUCTURAL
EQ	EQUAL	SG	SEWER GRATE
EW	EACH WAY	SST	STAINLESS STEEL
EX, EXIST	EXISTING	T	TANGENT LENGTH TO BE DETERMINED
FDN	FOUNDATION	TBD	TOP OF CURB
FC	FINISH GRADE	TC	THICK OR THICKNESS
FH	FIRE HYDRANT	THK	TOP OF CONCRETE
FFE	FINISH FLOOR ELEVATION	TOC	TOP OF WALL
FL	FLOW LINE	TW	TYPICAL
FS	FINISH SURFACE	UG	UNDERGROUND
FTG	FOOTING	UNDF	UNDEFINED
FW	FIRE WATER	UNO	UNLESS NOTED OTHERWISE
G	GAS MAIN	V	VENT
GALV	GALVANIZE	VEH	VEHICLE
GB	GRADE BREAK	VERT	VERTICAL
GR	GRADE	W	WEST
GV	GATE VALVE	W/O	WITHOUT
HORIZ	HORIZONTAL	WS	WATER SURFACE
HP	HIGH POINT	WWF	WELDED WIRE FABRIC
ID	INSIDE DIAMETER		
INV	INVERT		
JB	JUNCTION BOX		
JT	JOINT		
L	LENGTH OF CURVE		
LB	POUND		
MAX	MAXIMUM		
MH	MANHOLE		
MIN	MINIMUM		
MISC	MISCELLANEOUS		
MPG	MEDIUM PRESSURE GAS		

PAVING SCHEDULE

SYMBOL	DETAIL REFERENCE	DESCRIPTION	PATTERN	COLOR	FINISH	JOINT	COMMENTS
[P-1P]	6 / L251	CONCRETE PAVING BAND (DARK) (PEDESTRIAN ON GRADE)	BAND	DAVIS COLOR 8084 "GRAPHITE"	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #3
[P-1S]	5B / L251	CONCRETE PAVING BAND (DARK) (PEDESTRIAN ON STRUCTURE)	BAND	DAVIS COLOR 8084 "GRAPHITE"	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #5
[P-1V]	SEE CIVIL DRAWINGS	CONCRETE PAVING BAND (DARK) (VEHICULAR)	BAND	DAVIS COLOR 8084 "GRAPHITE"	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #8
[P-2P]	4 / L251	CONCRETE PAVING (MEDIUM) (PEDESTRIAN ON GRADE)	SEE PLAN	DAVIS COLOR 8084 "SILVERSMOKE"	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #3
[P-2S]	5A / L251	CONCRETE PAVING (MEDIUM) (PEDESTRIAN ON STRUCTURE)	SEE PLAN	DAVIS COLOR 8084 "SILVERSMOKE"	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #5
[P-2V]	SEE CIVIL DRAWINGS	CONCRETE PAVING (MEDIUM) (VEHICULAR)	SEE PLAN	DAVIS COLOR 8084 "SILVERSMOKE"	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #8
[P-3P]	4 / L251	CONCRETE PAVING (LIGHT) (PEDESTRIAN ON GRADE)	SEE PLAN	NATURAL GREY CONCRETE	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #3
[P-3S]	5A / L251	CONCRETE PAVING (LIGHT) (PEDESTRIAN ON STRUCTURE)	SEE PLAN	NATURAL GREY CONCRETE	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #5
[P-4]	7 / L251	CONCRETE PAVING BAND @ BDG (DARK) (PEDESTRIAN ON GRADE)	BAND	DAVIS COLOR 8084 "GRAPHITE"	LIGHT SANDBLAST	SAWCUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #3
[P-5]	5 / L252	CONCRETE HEADER	-	NATURAL GREY CONCRETE	BROOM	TOOLED	SEE CIVIL DWG DB-C002, KEYNOTE #18
[P-6]	1 / L252	COBBLE PAVING (ON STRUCTURE)	SEE NOTE #7	NATURAL / LIGHT GREY	GRANITE COBBLE MIX	MORTAR	HYDROBLAST AND SEAL SEE CIVIL DWG DB-C002, KEYNOTE #29
[P-7]	2 / L252	COBBLE SWALE (DETENTION BASIN)	SEE NOTE #7	NATURAL / LIGHT GREY	GRANITE COBBLE MIX	INFILL GRAVEL	INFILL COBBLE WITH SMALLER MATCHING ROCK 1/2" TO 4" SIZE
[P-8]	3 / L252	GRAVEL BAND (DETENTION BASIN)	BAND	DARK GREY-MATCH "GRAPHITE" BAND	1"x2" ROUNDED	MORTAR	MEXICAN PEBBLE. MORTARED AND SEALED
[P-9]	4 / L252	DECORATIVE GRAVEL	1"x2"	DARK GREY-MATCH "GRAPHITE" BAND	1"x2" ROUNDED	NA	MEXICAN PEBBLE W/ WEED BARRIER SEE CIVIL DWG DB-C002, KEYNOTE #19
[P-10]	1 / L256	TACTILE GUIDE STRIP BY POLYCOR, INC., 819-652-2000	24"x24"x2" TILE	"SAN SEBASTIAN WHITE"	FLAME	GROUT	SEALED SEE CIVIL DWG DB-C002, KEYNOTE #12
[P-11]	3 / L263	CONCRETE PLANTER CURB	SEE PLAN	NATURAL GREY CONCRETE	LIGHT SANDBLAST	SAWCUT	ALIGN CURB JOINT WITH PAVING JOINTS
[P-12]	2 / L258	CONCRETE PAVING AT LIGHT POLE (PEDESTRIAN)	SEE PLAN	MATCH ADJACENT PAVING CONT.	MATCH ADJACENT	SAWCUT	ALIGN CENTER OF POLE WITH PAVING JOINTS AND BANDS (WHERE SHOWN)

FENCE / RAIL SCHEDULE

SYMBOL	DETAIL REFERENCE	DESCRIPTION	HEIGHT	COLOR	COMMENTS
[F-1]	1 / L260	ENCLOSURE FENCE AT ANCILLARY BUILDING DETENTION BASIN	6'-0"	BRONZE PER MANUFACTURER	MODEL: WIREWORKS PLUS MANUF: AMERISTAR FENCE PRODUCTS, (888) 333-3422
[F-2]	1 / L260	PERIMETER FENCE AT THE CROSSING DETENTION BASIN	6'-0"	BRONZE PER MANUFACTURER	MODEL: WIREWORKS PLUS MANUF: AMERISTAR FENCE PRODUCTS, (888) 333-3422
[F-3]	2 / L260	FENCE AT THE CROSSING DETENTION BASIN (MATCH EXISTING)	MATCH EXISTING	MATCH EXISTING FRAZEE PAINT FINISH	-
[F-4]	2 / L256	BARRIER RAIL 'A'	3'-0"	N/A	STAINLESS STEEL FINISH LOCATED AT BUS PARKING MEDIAN
[F-5]	1 / L257	BARRIER RAIL 'B'	3'-0"	N/A	STAINLESS STEEL FINISH LOCATED AT BUS PARKING MEDIAN
[F-7]	1 / L259	BARRIER RAIL 'D'	3'-0"	N/A	STAINLESS STEEL FINISH LOCATED AT STATION SOUTH SIDE OF STATION

GATE SCHEDULE

SYMBOL	DETAIL REFERENCE	DESCRIPTION	HEIGHT	COLOR	COMMENTS
[G-1]	1 / L261	ENCLOSURE GATE AT DETENTION BASIN	6'-0"	BRONZE PER MANUFACTURER	MODEL: WIREWORKS PLUS - SINGLE GATE MANUF: AMERISTAR FENCE PRODUCTS, (888) 333-3422
[G-2]	1 / L262	VEHICULAR ACCESS GATE AT THE CROSSING DETENTION BASIN FENCE	6'-0"	BRONZE PER MANUFACTURER	MODEL: WIREWORKS PLUS - DOUBLE GATE MANUF: AMERISTAR FENCE PRODUCTS, (888) 333-3422
[G-3]	2 / L262	VEHICULAR ACCESS GATE AT THE CROSSING DETENTION BASIN WALL	MATCH EXISTING	BRONZE PER MANUFACTURER	MODEL: WIREWORKS PLUS - DOUBLE GATE MANUF: AMERISTAR FENCE PRODUCTS, (888) 333-3422
[G-4]	2 / L261	VEHICULAR ACCESS GATE (MATCH EXISTING) AT THE CROSSING DETENTION BASIN	MATCH EXISTING	MATCH EXISTING FRAZEE PAINT FINISH	MATCH EXISTING FENCE - DOUBLE GATE

WALL SCHEDULE

SYMBOL	DETAIL REFERENCE	DESCRIPTION	HEIGHT	COLOR	FINISH	CAP	COMMENTS
[W-1]	SEE CIVIL DRAWINGS	PERIMETER WALL AT CROSSINGS DETENTION BASIN	SEE CIVIL DRAWINGS	MATCH EXISTING	STUCCO	MATCH EXISTING	MATCH EXISTING WALL COLOR, FINISH, & TEXTURE
[W-2]	1,2 / L263	CAST-IN-PLACE CONCRETE CURB WALL AT SOUTH SIDE OF STATION	SEE CIVIL DRAWINGS	NATURAL GREY CONCRETE	MEDIUM SANDBLAST	N/A	AT SOUTH SIDE OF STATION
[W-2A]	1,2 / L263	CAST-IN-PLACE POLE LIGHT LIGHT PLINTH AT SOUTH SIDE OF STATION	SEE CIVIL DRAWINGS	NATURAL GREY CONCRETE	MEDIUM SANDBLAST	N/A	AT SOUTH SIDE OF STATION
[W-3]	1 / L264	CAST-IN-PLACE CONCRETE WALL AT BTA BIO-TREATMENT AREA	SEE CIVIL DRAWINGS	NATURAL GREY CONCRETE	MEDIUM SANDBLAST	N/A	AT BUS PARKING BIO-TREATMENT AREA
[W-4]	2 / L264	CAST-IN-PLACE CONCRETE PLANTER CURB AT BTA BIO-TREATMENT AREA	SEE CIVIL DRAWINGS	NATURAL GREY CONCRETE	MEDIUM SANDBLAST	N/A	AT BUS PARKING BIO-TREATMENT AREA
[W-5]	1 / L265	CAST-IN-PLACE CONCRETE PLANTER CURB AT STATION EAST SIDE BIO-TREATMENT AREA	SEE CIVIL DRAWINGS	NATURAL GREY CONCRETE	MEDIUM SANDBLAST	N/A	AT STATION EAST SIDE BIO-TREATMENT AREA
[W-6]	2 / L265	CAST-IN-PLACE CONCRETE PLANTER CURB AT MONTAGUE EX. BIO-TREATMENT AREA	SEE CIVIL DRAWINGS	NATURAL GREY CONCRETE	MEDIUM SANDBLAST	N/A	AT MONTAGUE EX. BIO-TREATMENT AREA

MISCELLANEOUS MATERIALS SCHEDULE

SYMBOL	DETAIL REFERENCE	DESCRIPTION	PATTERN	COLOR	FINISH	JOINT	COMMENTS
[M-1]	1 / L255	TREE GRATE A (48")	SEE DETAIL	BLACK	POLY-URETHANE	GROUT	IRON SMITH MODEL #7246
[M-2]	1 / L255	TREE GRATE B (36")	SEE DETAIL	BLACK	POLY-URETHANE	GROUT	IRON SMITH MODEL #7230

CONCRETE/ PAVING NOTES

- NOTES:
- INTEGRAL COLOR CONCRETE SHALL USE GREY ARCHITECTURAL PORTLAND CEMENT. SUBMIT COLOR AND PATTERN SAMPLES ON 24"x24" CONCRETE PANELS FOR DISTRICT REPRESENTATIVE REVIEW AND APPROVAL. CONTRACTOR SHALL NOT PROCEED WITH IMPLEMENTATION UNTIL COLOR, FINISH, AND PATTERN SAMPLES HAVE BEEN APPROVED IN WRITING BY VTA.
 - THE CONCRETE PAVING FINISH & COLOR SHALL BE UNIFORM AND CONSISTENT. EACH AREA OF SPECIFIED COLOR, INCLUDING PLAIN CONCRETE, SHALL MATCH EACH OTHER THROUGHOUT THE ENTIRE PROJECT. THE INSTALLED INTEGRAL COLORED CONCRETE PAVING SHALL MATCH THE APPROVED SAMPLES.
 - ALL INTEGRAL COLORED CONCRETE PAVING SHALL BE CURED AND SEALED WITH COLOR MATCHED DAVIS W-1000 CLEAR SEALER.
 - ALL EXPANSION JOINT SEALANT TO MATCH ADJACENT CONCRETE COLOR. WHERE EXPANSION JOINT DIVIDES TWO COLORS, EXPANSION JOINT SHALL MATCH DARKER COLOR.
 - UTILITY BOXES LOCATED IN PEDESTRIAN PAVING: PROVIDE SHOP DRAWINGS SHOWING PROPOSED SIZE AND ORIENTATION OF ALL UTILITY BOXES USING THE LANDSCAPE LAYOUT PLANS WITH HARDSCAPE JOINT PATTERNS FOR REVIEW AND ACCEPTANCE BY DISTRICT REPRESENTATIVE PRIOR TO SETTING BOXES FOR CONCRETE PLACEMENT. BOXES SHALL BE ALIGNED PARALLEL AND PERPENDICULAR TO PAVING JOINTS. GROUPS OF BOXES SHALL BE SET SO ONE EDGE OF BOXES IN GROUP ARE IN ALIGNMENT, ANY BOX LARGER THAN 6 SQUARE FEET SHALL HAVE A PAN TYPE LID WITH CONCRETE MATCHING COLOR AND FINISH OF ADJACENT PAVING.
 - COORDINATE PAVING INSTALLATION WITH POLES AND FURNITURE ATTACHMENTS TO ALLOW FOR INTEGRATED DESIGN
 - COBBLE PAVING SHALL BE COBBLESTONE ALTERNATING WITH RIVER ROCKS, MAX 12" TO MIN. 6" WITH ONE SIDE FLAT. ROCKS SHALL BE SMOOTH, ROUNDED, FREE OF OBJECTIONABLE DISFIGURATIONS AND IRON CONTENT. SUBMIT SAMPLE FOR APPROVAL.

GENERAL NOTES

- NOTES:
- PROVIDE SHOP DRAWINGS FOR ALL METAL FABRICATIONS INCLUDING REQUIRED MATERIALS, THICKNESS, FINISHES AND FOOTING DIMENSIONS.
 - SEE CIVIL DRAWINGS FOR VEHICULAR PAVEMENT SECTIONS.
 - SEE CIVIL DRAWINGS FOR CURB RAMPS.
 - SEE ARCHITECT DRAWINGS FOR PAVING LAYOUT WITHIN STATION BUILDING.
 - SEE ARCHITECT DRAWINGS FOR PASSENGER SHELTERS.
 - SEE SIGNAGE DRAWINGS FOR SITE WAYFINDING SIGNAGE.
 - SEE ELECTRICAL DRAWINGS FOR SITE LIGHT FIXTURE SELECTION. REFER TO CIVIL DWGS FOR LIGHT POLE FOOTING DETAILS
 - SEE ARCHITECT DRAWINGS FOR LIGHT FIXTURE SELECTION IN THE PASSENGER SHELTERS.
 - SEE ARCHITECT DRAWINGS FOR STATION SITE FURNISHINGS: BENCH, TRASH RECEPTACLE, NEWSPAPER RACK, BICYCLE RACK, AND BICYCLE LOCKER.

COORDINATION SCHEDULE

SYMBOL	DESCRIPTION	
(1)	TRENCH DRAIN SEE ARCH. DWGS	(16)
(2)	BIKE RACK SEE ARCH. DWGS	
(3)	STORM DRAIN OUTLET @ BASIN SEE CIVIL DWGS	
(4)	CONCRETE CURB SEE CIVIL DWGS	
(5)	CURB RAMP SEE CIVIL DWGS	
(6)	PASSENGER SHELTER AND BENCHES SEE ARCH. DWGS	
(7)	PEDESTRIAN OVERCROSSING SEE ARCH. DWGS	
(8)	COMMUNITY WALL SEE D720 CONTRACT	
(9)	PEDESTRIAN POLE LIGHT FIXTURE SEE ELECTRICAL DWGS	
(10)	VEHICULAR POLE LIGHT FIXTURE SEE ELECTRICAL DWGS	
(11)	EDGE OF STRUCTURAL SLAB (BELOW)	
(12)	GREEN SCREEN PANEL SEE ARCH. DWGS	
(13)	GRAVEL PAVING SEE CIVIL DWGS	
(14)	CONCRETE CURB WALL SEE CIVIL DWGS	
(15)	STREETSCAPE LIGHT FIXTURES SEE DU012 PACKAGE (NOT A PART OF DU023)	

Santa Clara Valley Transportation Authority

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MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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Contract No.: **DB11002F**

By: _____ Date: _____

LEGEND

D010
TYPICAL FOR ALL C3 AREAS SHOWN ON SHEETS

(PA) PLANTING AREA

(PA) C3 BIO-RETENTION AREA

x x x UNFINISHED GRADE - "DIRT"

ALIGN EDGES

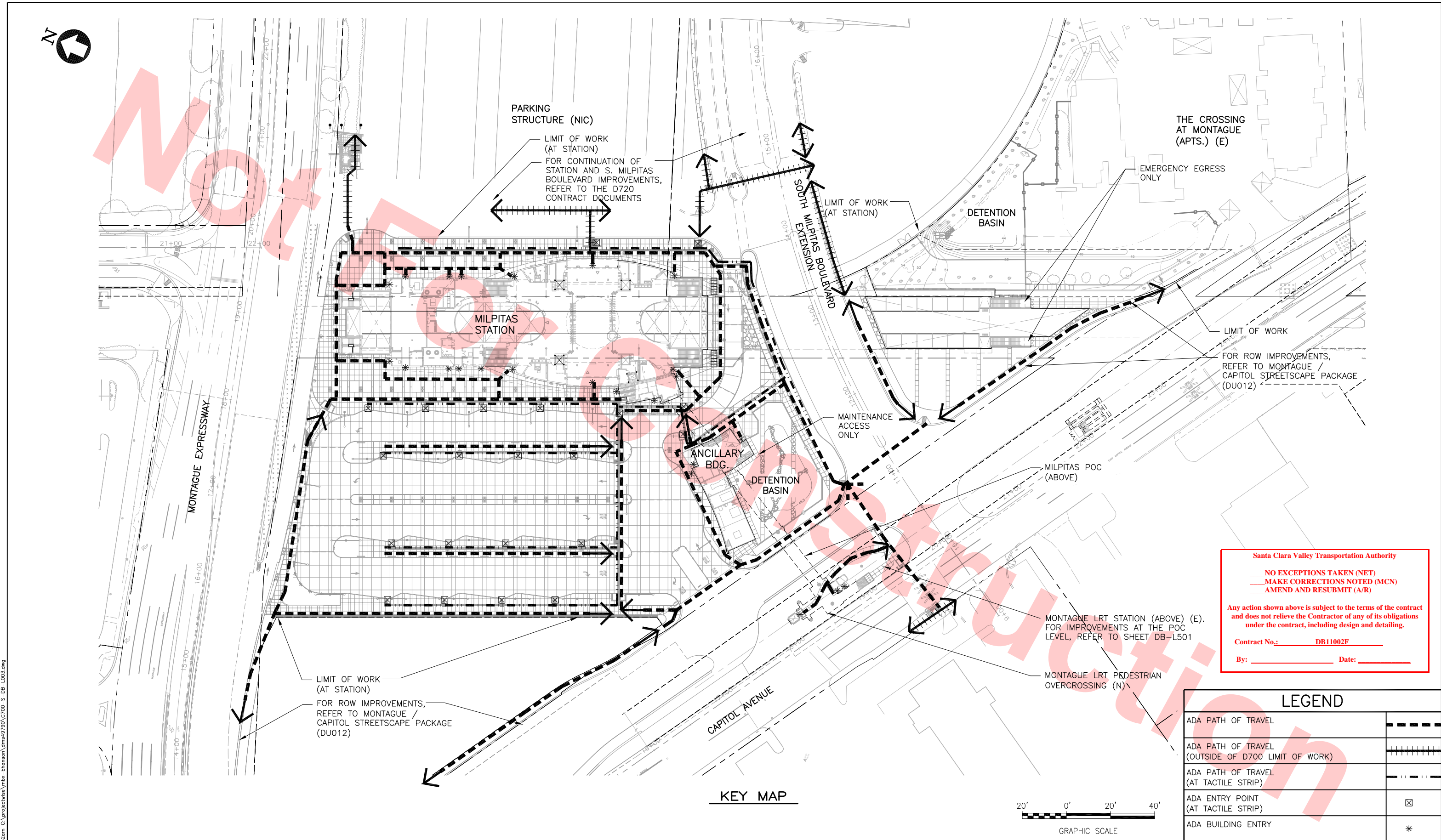
SCORE JOINT

ISOLATION / CONSTRUCTION JOINT

CONCRETE PAVING

CONCRETE CURB

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Santa Clara Valley Transportation Authority

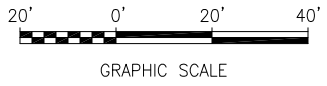
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LEGEND	
ADA PATH OF TRAVEL	----
ADA PATH OF TRAVEL (OUTSIDE OF D700 LIMIT OF WORK)	++++
ADA PATH OF TRAVEL (AT TACTILE STRIP)	- . - . - .
ADA ENTRY POINT (AT TACTILE STRIP)	☒
ADA BUILDING ENTRY	*



REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.

1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

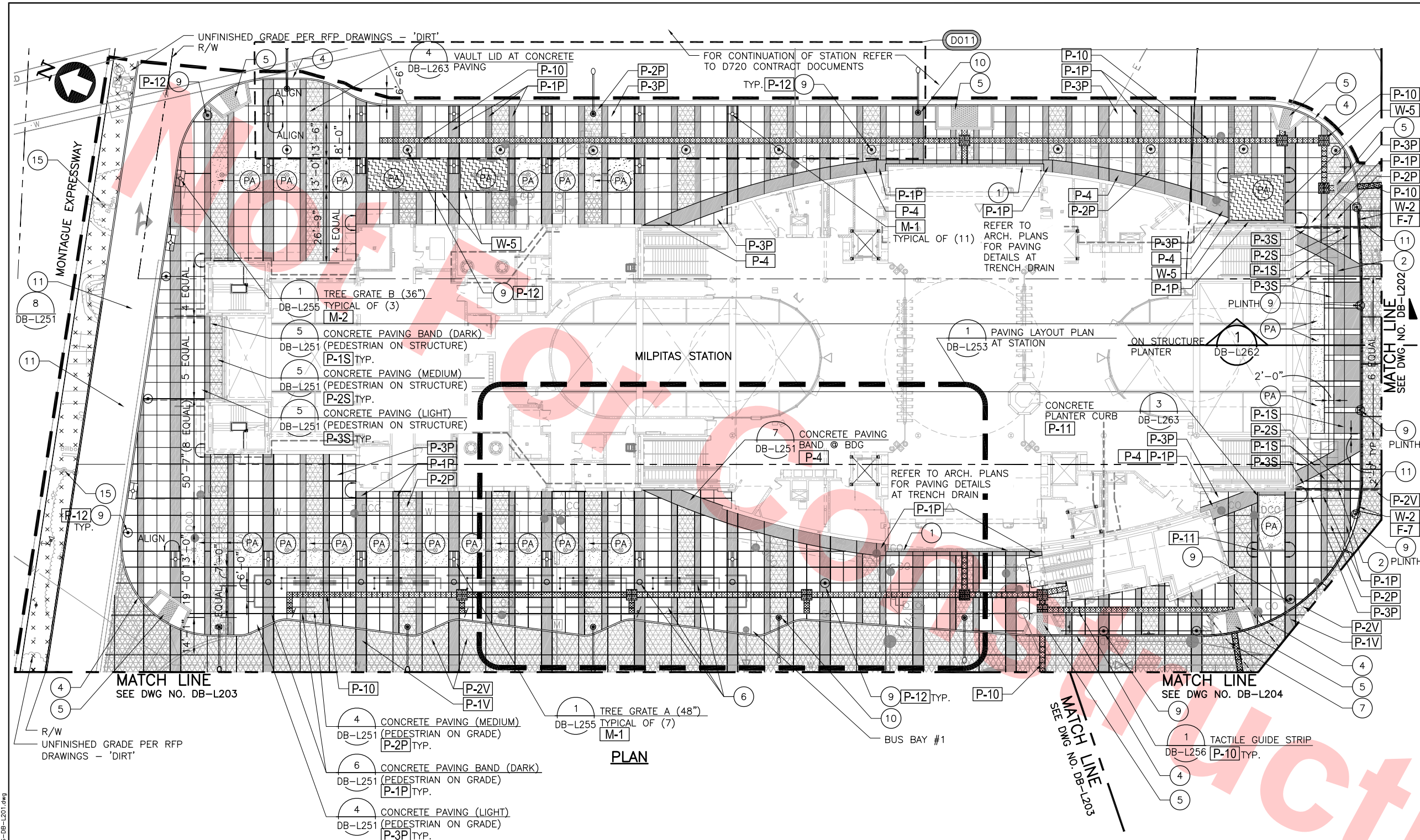
Lookwood, Andrews & Newman, Inc.
A LEI A DALY COMPANY

T-Y LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
ADA PATH OF TRAVEL

CADD FILENAME C700-S-DB-L003.dwg	
SIZE SCALE D 1" = 50'-0"	
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. L003
	PAGE NO. 0096



MATERIAL REFERENCES	
REFER TO DRAWING DB-L002 FOR FULL MATERIAL SCHEDULE / LEGEND & DETAIL REFERENCES	
[P-X]	PAVING NOTE. REFER TO 'PAVING SCHEDULE'
[W-X]	WALL NOTE. REFER TO 'WALL SCHEDULE'
[F-X]	FENCE/RAIL NOTE. REFER TO 'FENCE/RAIL SCHEDULE'
[G-X]	GATE NOTE. REFER TO 'GATE SCHEDULE'
[M-X]	MISCELLANEOUS CONSTRUCTION NOTE. REFER TO 'CONSTRUCTION NOTE REFERENCE'

COORDINATION NOTES	
THESE NOTES ARE FOR COORDINATION PURPOSES. REFER TO COORDINATION NOTES SCHEDULE ON DRAWING DB-L002	
SYMBOL	DESCRIPTION
1	TRENCH DRAIN SEE ARCH. DWGS
2	BIKE LOCKERS / RACKS SEE ARCH. DWGS
3	STORM DRAIN OUTLET @ BASIN SEE CIVIL DWGS
4	CONCRETE CURB SEE CIVIL DWGS
5	CURB RAMP SEE CIVIL DWGS
6	PASSENGER SHELTER AND BENCHES SEE ARCH. DRAWINGS
7	PEDESTRIAN OVERCROSSING SEE ARCH. DWGS
8	COMMUNITY WALL SEE D720 CONTRACT
9	PEDESTRIAN POLE LIGHT FIXTURE SEE ELECTRICAL DWGS
10	VEHICULAR POLE LIGHT FIXTURE SEE ELECTRICAL DWGS
11	EDGE OF STRUCTURAL SLAB (BELOW)
12	GREEN SCREEN PANEL SEE ARCH. DWGS
13	GRAVEL PAVING SEE CIVIL DWGS
14	CONCRETE CURB WALL SEE CIVIL DWGS
15	STREETSCAPE LIGHT FIXTURES SEE DU012 PACKAGE (NOT APART OF DU023)

LEGEND	
[PA]	PLANTING AREA
[PA]	BIO-RETENTION PLANTING AREA
x x x	UNFINISHED GRADE - 'DIRT'
↔	ALIGN EDGES
SCORE JOINT	ISOLATION / CONSTRUCTION JOINT
	CONCRETE PAVING

KEYMAP	

PLAN

GRAPHIC SCALE: 20' 0' 20' 40'

Santa Clara Valley Transportation Authority

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Skanska Shimmick Herzog

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Lookwood, Andrews & Newman, Inc.
A LEOP A BALLY COMPANY

T-Y-LIN INTERNATIONAL

BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

MILPITAS STATION

LAYOUT PLAN - HARDSCAPE

SHEET 1 OF 4

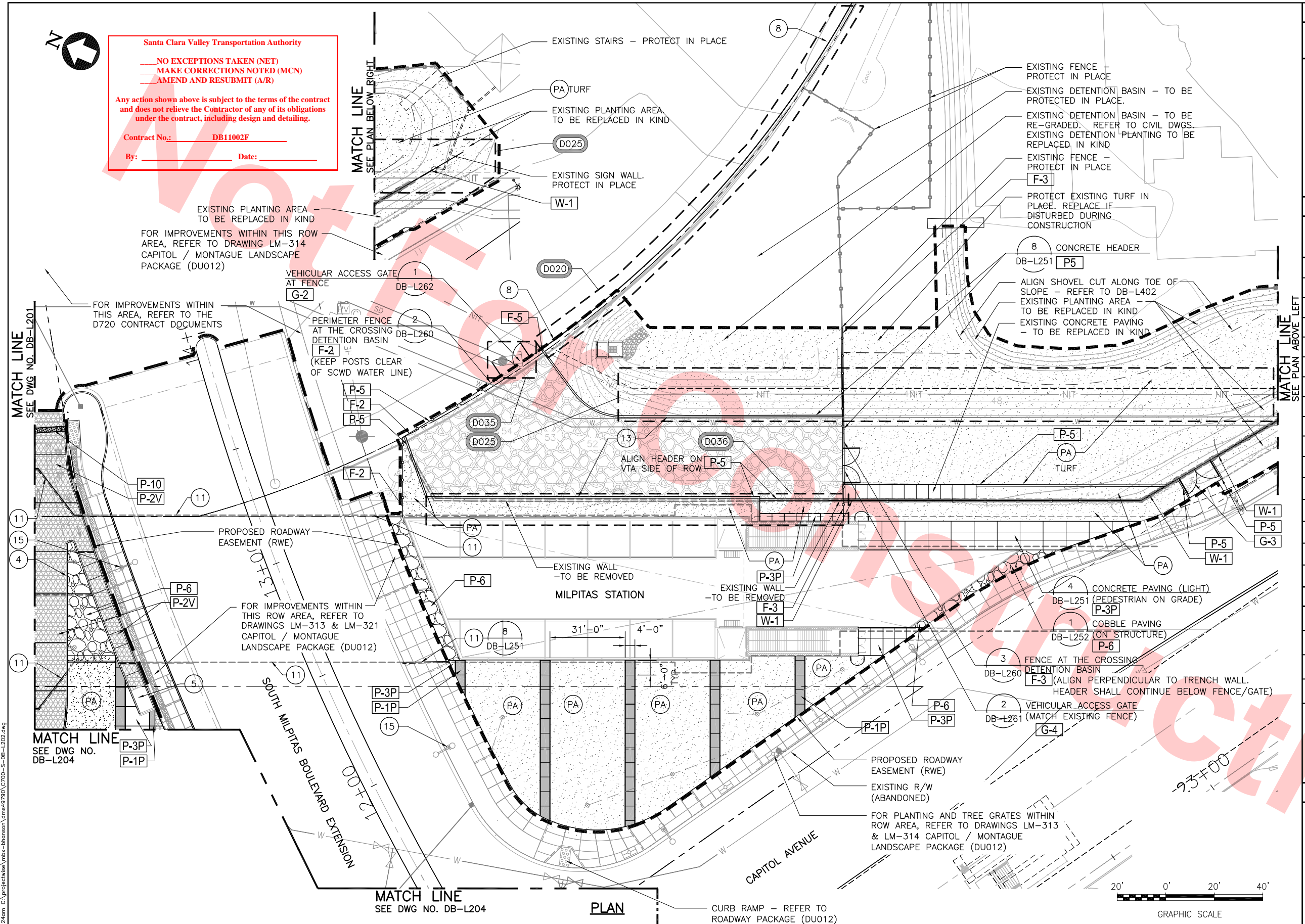
CADD FILENAME: C700-S-DB-L201.dwg

SIZE SCALE: 1"=20'-0"

CONTRACT NO. **C700** REV. **0**

AREA CODE **DB** SHEET NO. **L201** PAGE NO. **0097**

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MATERIAL REFERENCES

REFER TO DRAWING DB-L002 FOR FULL MATERIAL SCHEDULE / LEGEND & DETAIL REFERENCES

P-X PAVING NOTE. REFER TO 'PAVING SCHEDULE'

W-X WALL NOTE. REFER TO 'WALL SCHEDULE'

F-X FENCE/RAIL NOTE. REFER TO 'FENCE/RAIL SCHEDULE'

G-X GATE NOTE. REFER TO 'GATE SCHEDULE'

M-X MISCELLANEOUS CONSTRUCTION NOTE. REFER TO 'CONSTRUCTION NOTE REFERENCE'

COORDINATION NOTES

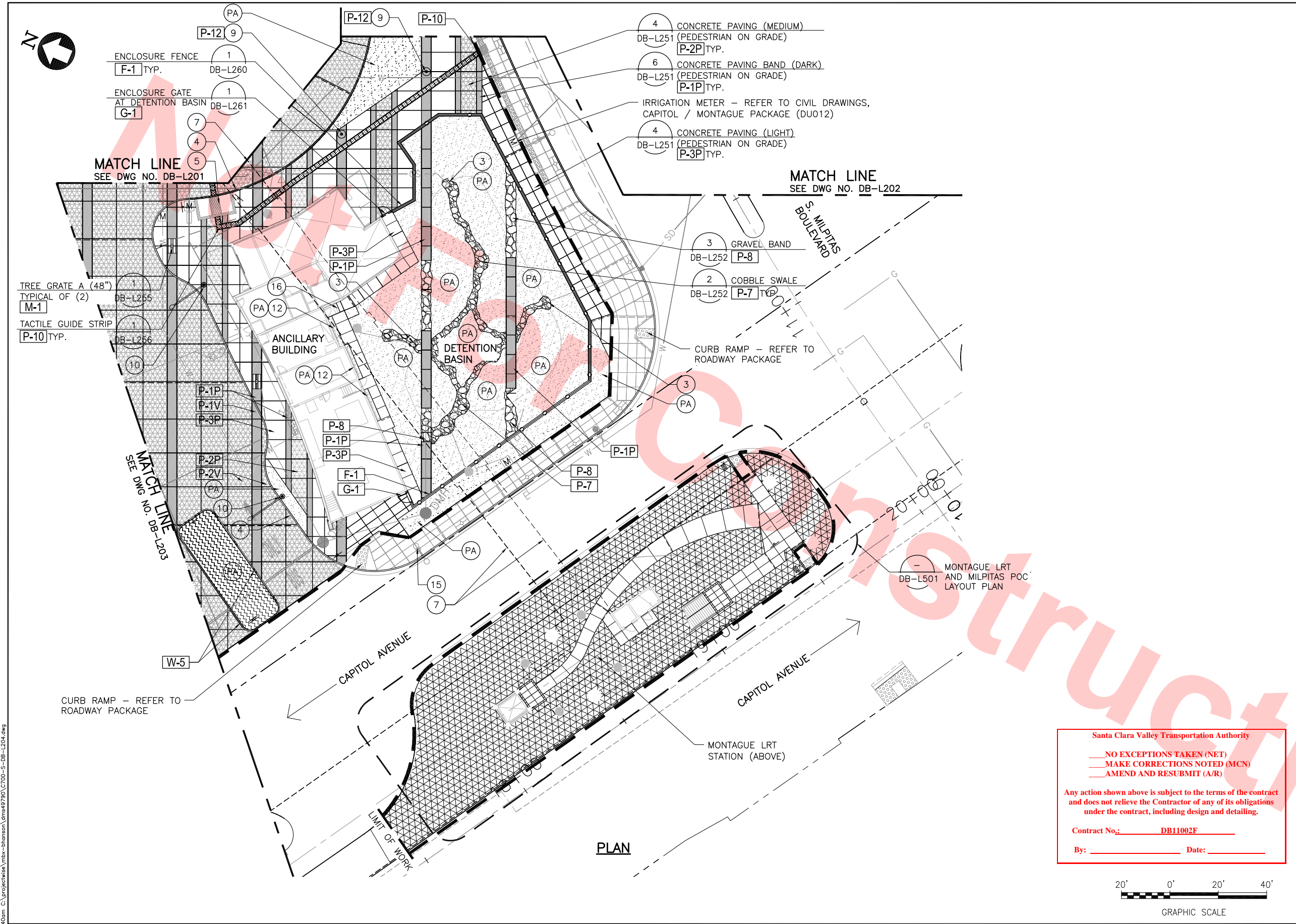
THESE NOTES ARE FOR COORDINATION PURPOSES. REFER TO COORDINATION NOTES SCHEDULE ON DRAWING DB-L002

SYMBOL	DESCRIPTION
1	TRENCH DRAIN SEE ARCH. DWGS
2	BIKE RACK SEE ARCH. DWGS
3	STORM DRAIN OUTLET @ BASIN SEE CIVIL DWGS
4	CONCRETE CURB SEE CIVIL DWGS
5	CURB RAMP SEE CIVIL DWGS
6	PASSENGER SHELTER AND BENCHES SEE ARCH. DRAWINGS
7	PEDESTRIAN OVERCROSSING SEE ARCH. DWGS
8	COMMUNITY WALL SEE D720 CONTRACT
9	PEDESTRIAN POLE LIGHT FIXTURE SEE ELECTRICAL DWGS
10	VEHICULAR POLE LIGHT FIXTURE SEE ELECTRICAL DWGS
11	EDGE OF STRUCTURAL SLAB (BELOW)
12	GREEN SCREEN PANEL SEE ARCH. DWGS
13	GRAVEL PAVING SEE CIVIL DWGS
14	CONCRETE CURB WALL SEE CIVIL DWGS
15	STREETSCAPE LIGHT FIXTURES SEE DU12 PACKAGE (NOT APART OF DU023)

LEGEND

PA	PLANTING AREA
PA	BIO-RETENTION PLANTING AREA
x x x	UNFINISHED GRADE - 'DIRT'
↔	ALIGN EDGES
—	SCORE JOINT
—	ISOLATION / CONSTRUCTION JOINT
—	CONCRETE PAVING

KEYMAP



MATERIAL REFERENCES

REFER TO DRAWING DB-L002 FOR FULL MATERIAL SCHEDULE / LEGEND & DETAIL REFERENCES

P-X PAVING NOTE. REFER TO 'PAVING SCHEDULE'

W-X WALL NOTE. REFER TO 'WALL SCHEDULE'

F-X FENCE/RAIL NOTE. REFER TO 'FENCE/RAIL SCHEDULE'

G-X GATE NOTE. REFER TO 'GATE SCHEDULE'

M-X MISCELLANEOUS CONSTRUCTION NOTE. REFER TO 'CONSTRUCTION NOTE REFERENCE'

COORDINATION NOTES

THESE NOTES ARE FOR COORDINATION PURPOSES. REFER TO COORDINATION NOTES SCHEDULE ON DRAWING DB-L002

SYMBOL	DESCRIPTION
(1)	TRENCH DRAIN SEE ARCH. DWGS
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(13)	GRAVEL PAVING SEE CIVIL DWGS
(14)	CONCRETE CURB WALL SEE CIVIL DWGS
(15)	STREETSCAPE LIGHT FIXTURES SEE DU012 PACKAGE (NOT APART OF DU023)

LEGEND

PA	PLANTING AREA
PA	BIO-RETENTION PLANTING AREA
x x x	UNFINISHED GRADE - 'DIRT'
↔	ALIGN EDGES
SCORE JOINT ISOLATION / CONSTRUCTION JOINT CONCRETE PAVING	

KEYMAP

Santa Clara Valley Transportation Authority

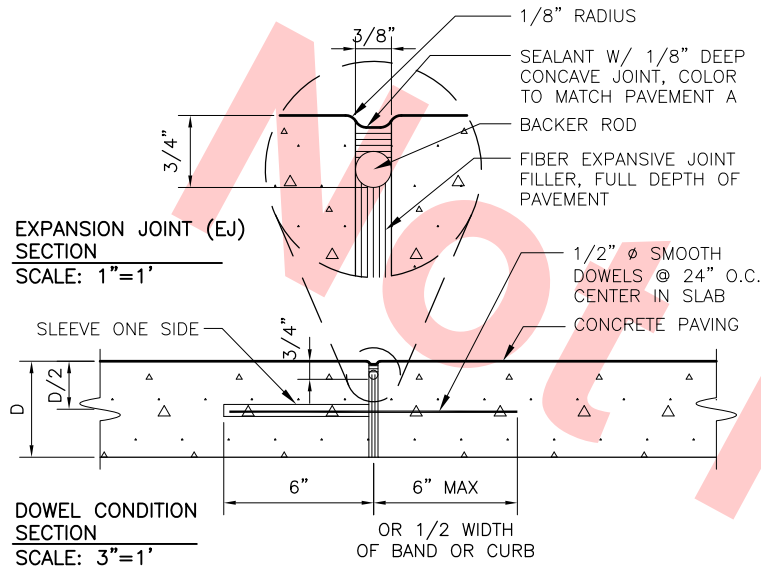
NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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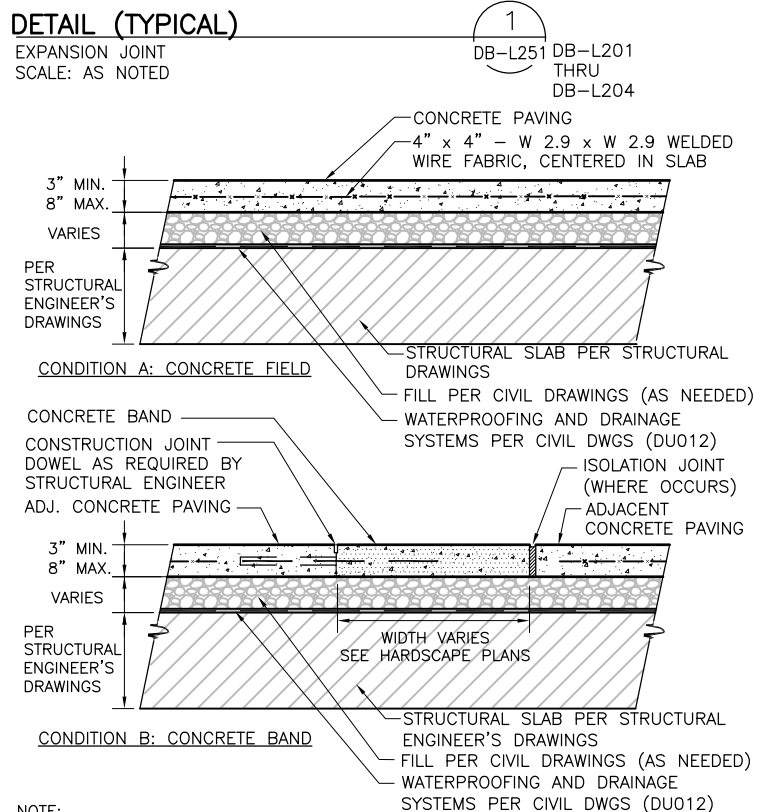
Contract No.: DB11002F

By: _____ Date: _____

20' 0' 20' 40'
GRAPHIC SCALE

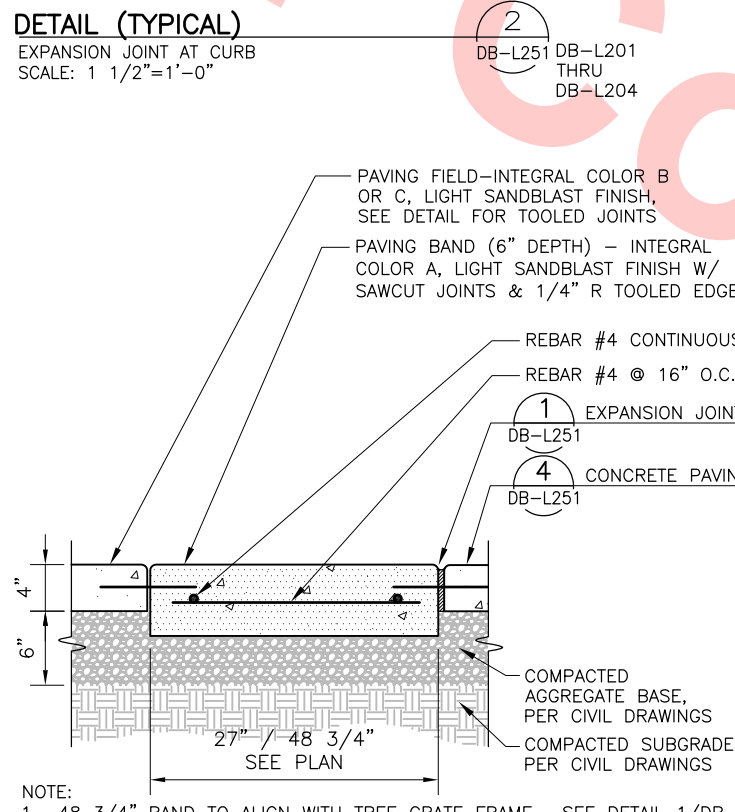
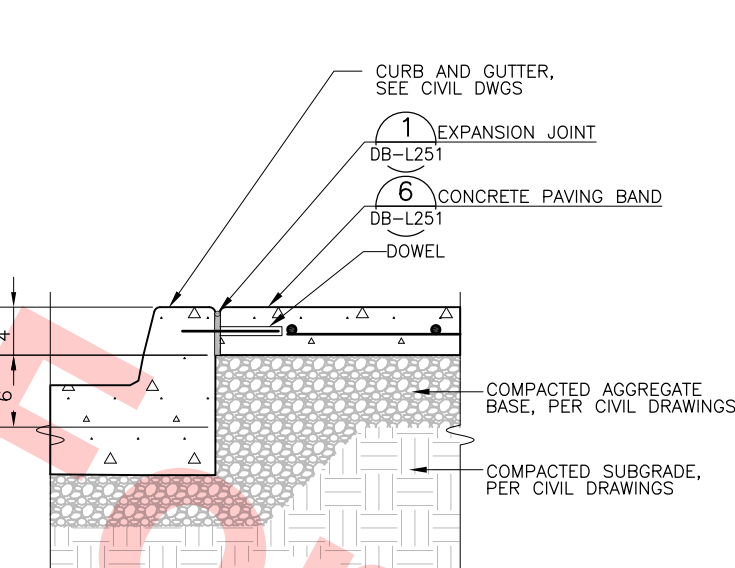


NOTE:
1. BACK OF CURB CONDITION DOES NOT REQUIRE DOWEL.
2. AT POUR JOINTS (COLD JOINTS) EXPANSION JOINTS ARE NOT REQUIRED.
3. EJ'S @ 16' O.C. MAX, ALIGN W/ SJ PATTERN SHOWN ON DRAWINGS.



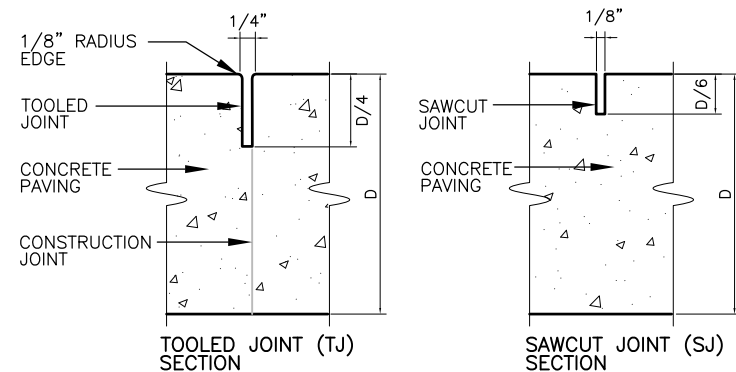
NOTE:
1. SEE CONSTRUCTION PLANS AND ENLARGEMENTS FOR BAND & JOINT LOCATIONS
2. SEE PAVING SCHEDULE ON SHEET DB-L002 FOR COLOR AND FINISH
3. HOLD REBAR 3" CLEAR OF CONCRETE EDGE. SEE SPECS FOR OVERLAPPING BAR REQ.
3. BAND DETAIL IS INTENDED FOR SEPARATE CONCRETE PAVING POURS AT BAND WHERE COLOR AND/OR FINISH VARIES

DETAIL (TYPICAL) CONCRETE PAVING - PEDESTRIAN (ON GRADE) DB-L251 DB-L201 THRU DB-L204 SCALE: 1" = 1'-0"

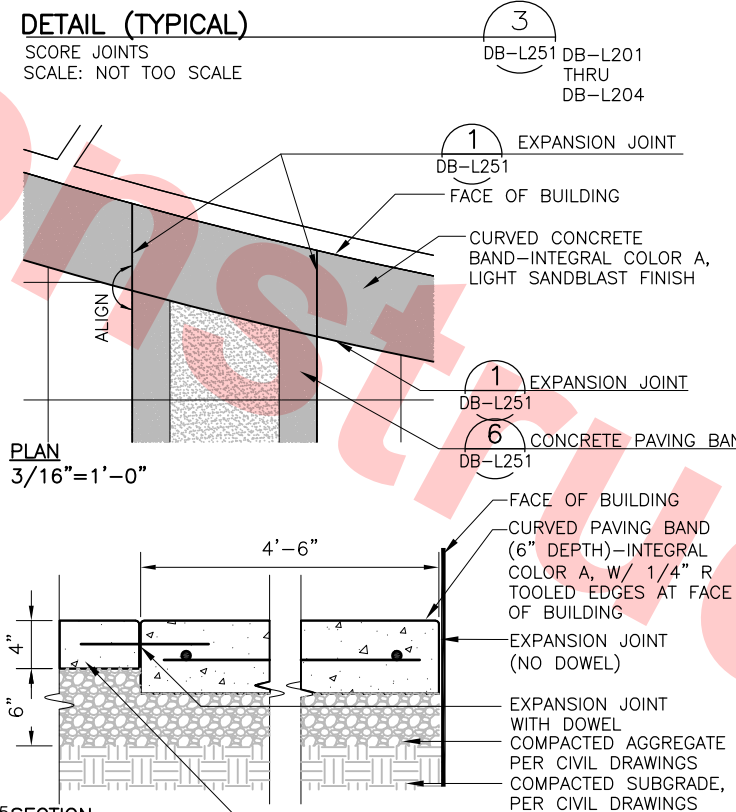


NOTE:
1. 48 3/4" BAND TO ALIGN WITH TREE GRATE FRAME. SEE DETAIL 1/DB-L255
2. HOLD REBAR 3" CLEAR OF CONCRETE EDGE. REFER TO SPECS FOR OVERLAPPING BAR REQUIREMENTS
3. REFER TO DRAWINGS DB-L253 & DB-L254 FOR LAYOUT PLAN

DETAIL (TYPICAL) CONCRETE PAVING BAND - PEDESTRIAN DB-L251 DB-L201 THRU DB-L204 SCALE: 1 1/2"=1'-0"

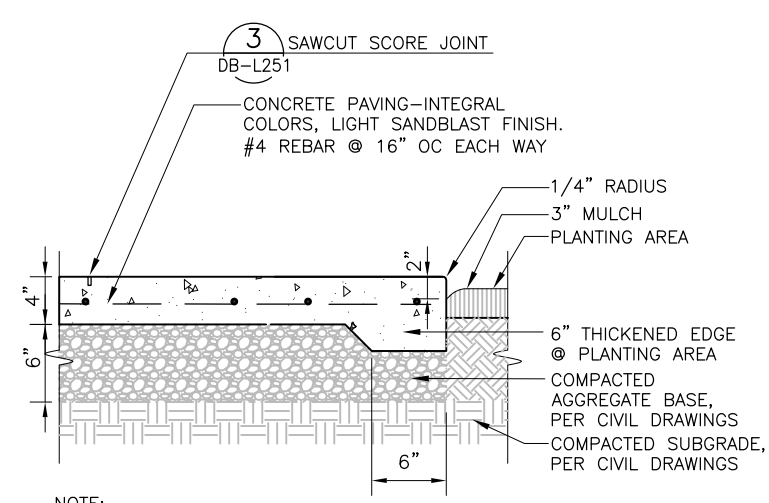


NOTE:
ALL CONCRETE JOINTS TO BE SAWCUT EXCEPT WHERE EXPANSION JOINTS (EJ) OR CONSTRUCTION JOINTS ARE REQUIRED.

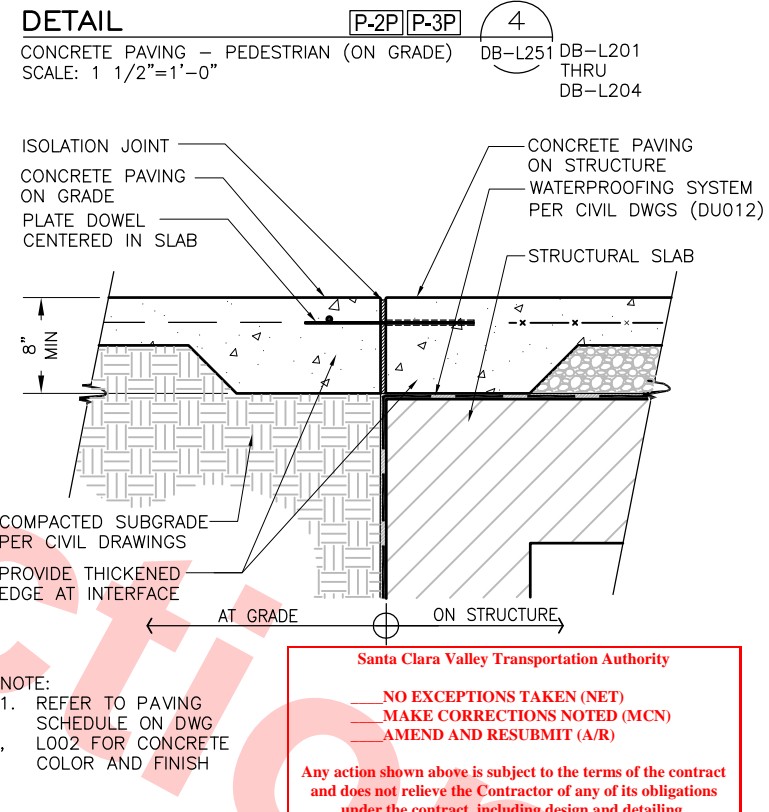


NOTE:
1. BAND REBAR TO BE #4's @ 16" OC EACH WAY
2. REFER TO DRAWING DB-L253 FOR LAYOUT PLAN

DETAIL (TYPICAL) CONCRETE PAVING BAND @ BUILDING - PEDESTRIAN DB-L251 DB-L201 THRU DB-L204 SCALE: AS NOTED



NOTE:
1. PROVIDE 6" WIDE THICKENED EDGE AT ALL PLANTING AREAS



NOTE:
1. REFER TO PAVING SCHEDULE ON DWG L002 FOR CONCRETE COLOR AND FINISH

DETAIL (TYPICAL) CONCRETE INTERFACE DB-L251 DB-L201 THRU DB-L202 SCALE: 1 1/2"=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: _____

Jun 25, 2013 10:48am C:\projects\wms\mbox-shannon\c700-S-DB-L251.dwg

DESIGNED BY J. KEENAN	0	20130710	BY	DATE	20130710
DRAWN BY B. HANSON	1		SUB		
CHECKED BY W. ARATA	2		APP		
IN CHARGE R. BARLAAN					
DATE 20130710					
DESCRIPTION READINESS FOR CONSTRUCTION					

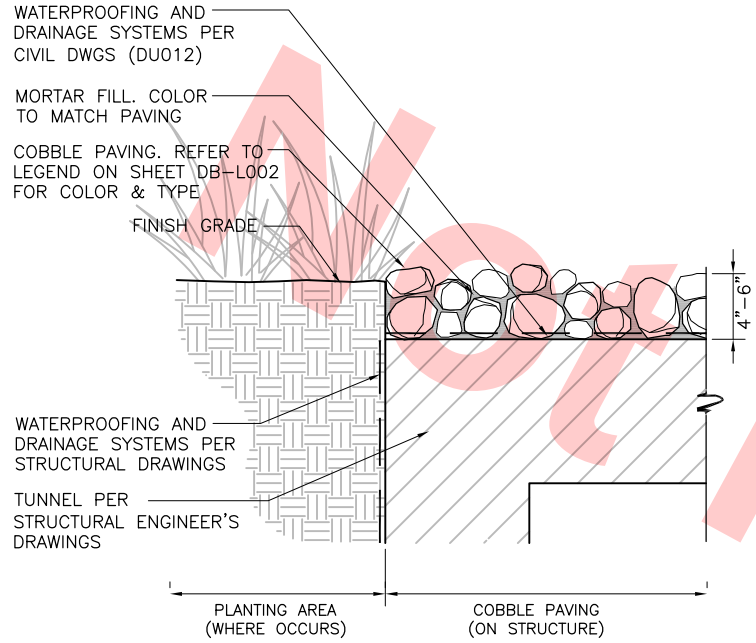


Skanska
Shimmick
Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

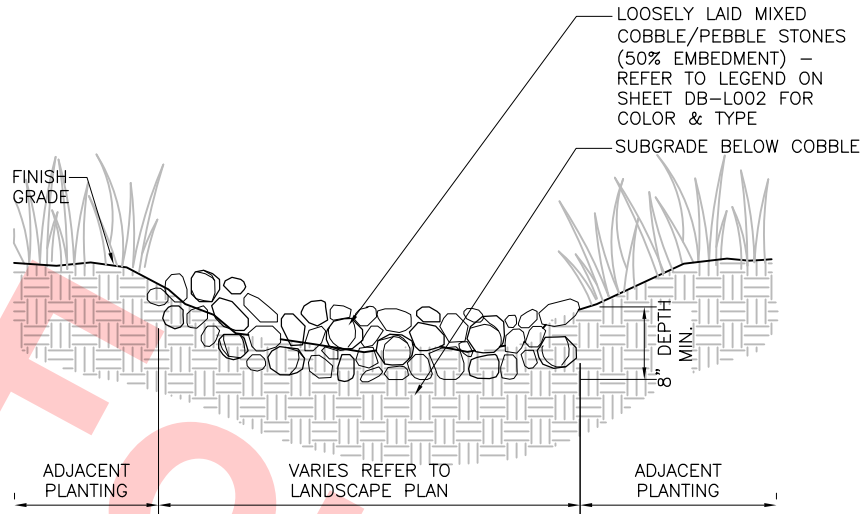
Lookwood, Andrews
& Newman, Inc.
A LEO A DALY COMPANY
T-Y LIN INTERNATIONAL



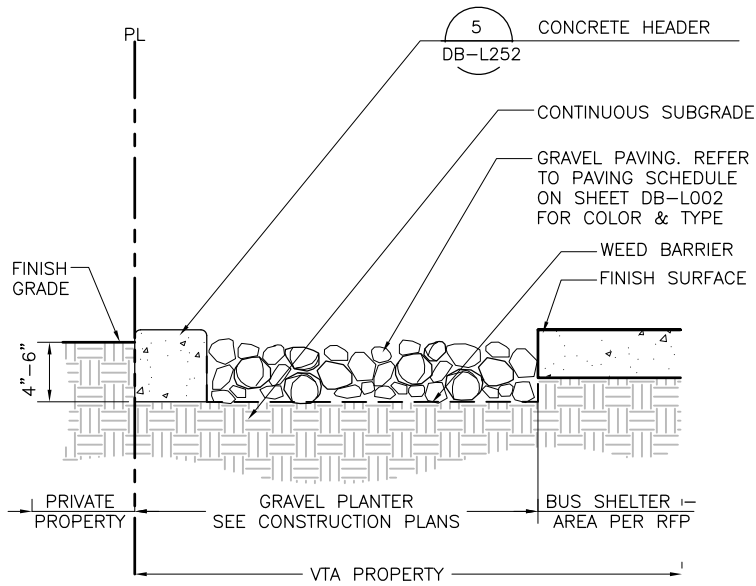
LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION CONSTRUCTION DETAILS	CADD FILENAME C700-S-DB-L251.dwg
SIZE D	SCALE AS NOTED
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. L251
	PAGE NO. 0101



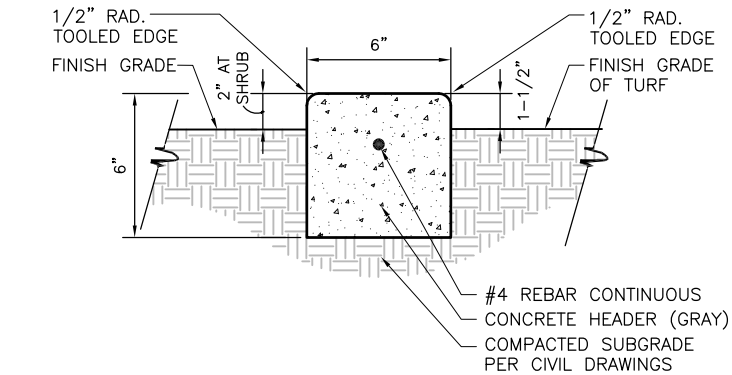
DETAIL P-6 1 DB-L252 DB-L202
COBBLE PAVING (ON STRUCTURE)
SCALE: 1-1/2" = 1'-0"



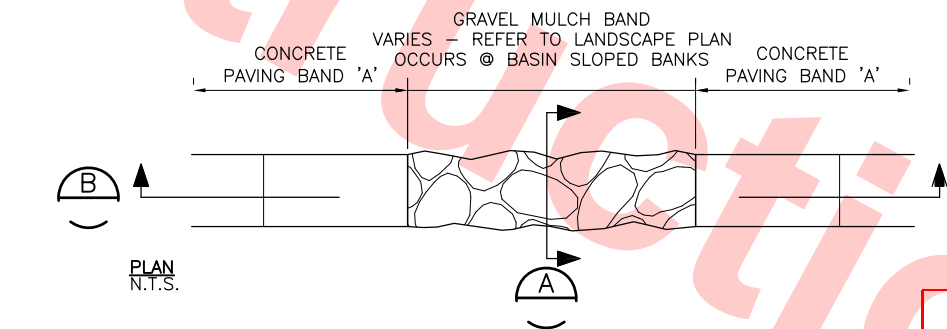
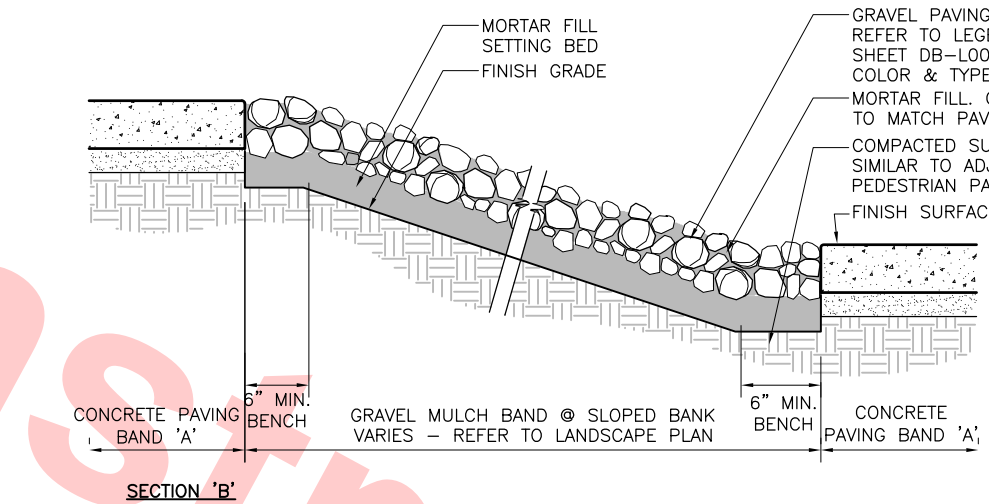
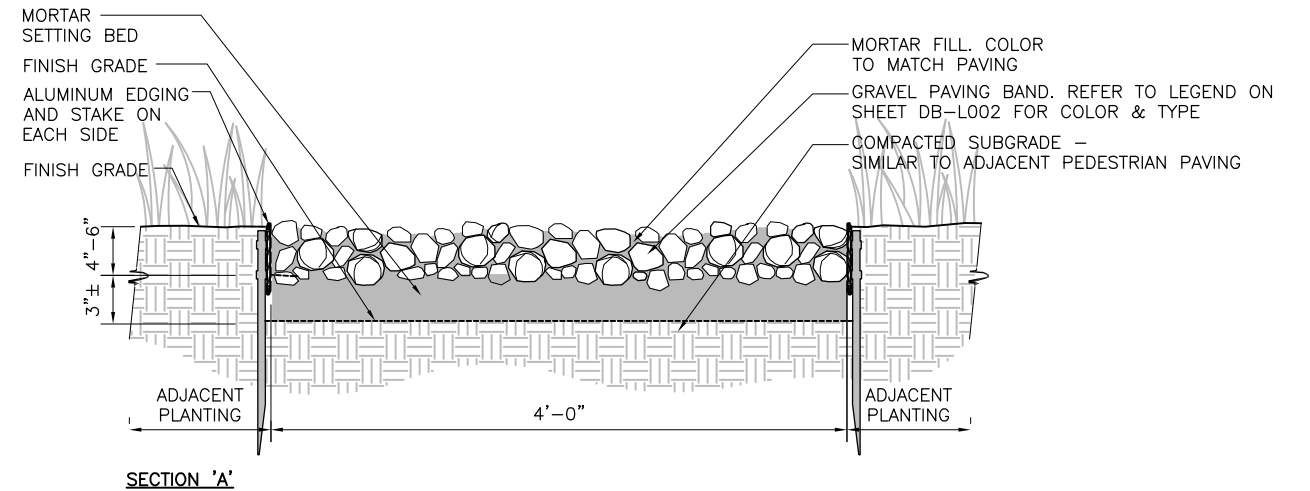
DETAIL P-7 2 DB-L252 DB-L204
COBBLE SWALE (DETENTION BASIN)
SCALE: 1-1/2" = 1'-0"



DETAIL P-9 4 DB-L252 DB-L203
DECORATIVE GRAVEL
SCALE: 3" = 1'-0"



DETAIL P-5 5 DB-L252 DB-L202 DB-L203
CONCRETE HEADER
SCALE: 3" = 1'-0"



- NOTES:
- ALUMINUM EDGE BY PERMALOC, (800) 356-9660, MODEL: CLEANLINE XL, SIZE: 3/16" X 6"
 - TOP OF EDGING TO BE 1/2" MAX. ABOVE SURFACE MATERIAL

DETAIL P-8 3 DB-L252 DB-L204
GRAVEL BAND (DETENTION BASIN)
SCALE: 1-1/2" = 1'-0"

- NOTE:
- INSTALL 1-1/4"x1/4" SCORE JOINT @ 10' O.C. AND 3/8" CONTRACTION JOINT @ 20' O.C. INSTALL ISOLATION JOINTS WHERE MOWSTRIP MEETS A VERTICAL SURFACE
 - ADJUST GRADE AT SHRUB PLANTER ADJACENT TO CURB TO ALLOW FOR FULL DEPTH OF MULCH

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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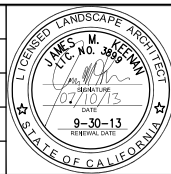
Contract No.: DB11002F

By: _____ Date: _____

Jun 24, 2013 9:44am C:\projects\wise\mbr-hanson\lms49790\700-S-DB-L252.dwg
brett

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY J. KEENAN	20130710
DRAWN BY B. HANSON	
CHECKED BY W. ARATA	
IN CHARGE R. BARLAAN	
DATE	



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Phone: (510) 835-2537 Fax: (510) 535-2339
Oakland, CA 94612

Lookwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY

T-Y LIN INTERNATIONAL

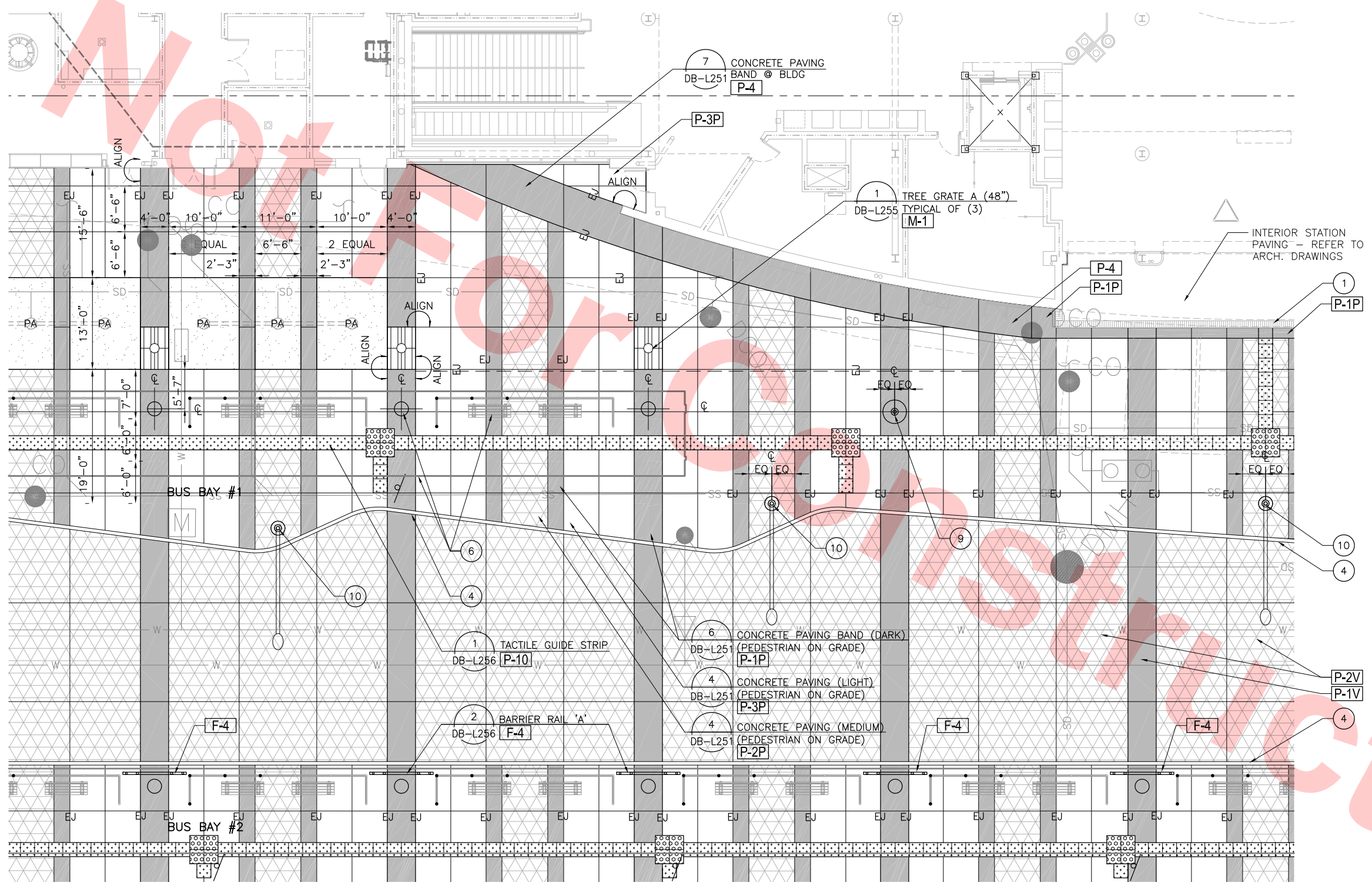
BART SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

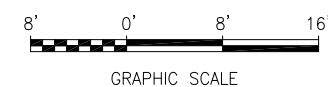
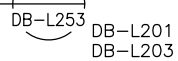
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONSTRUCTION DETAILS

SHEET 2 OF 15

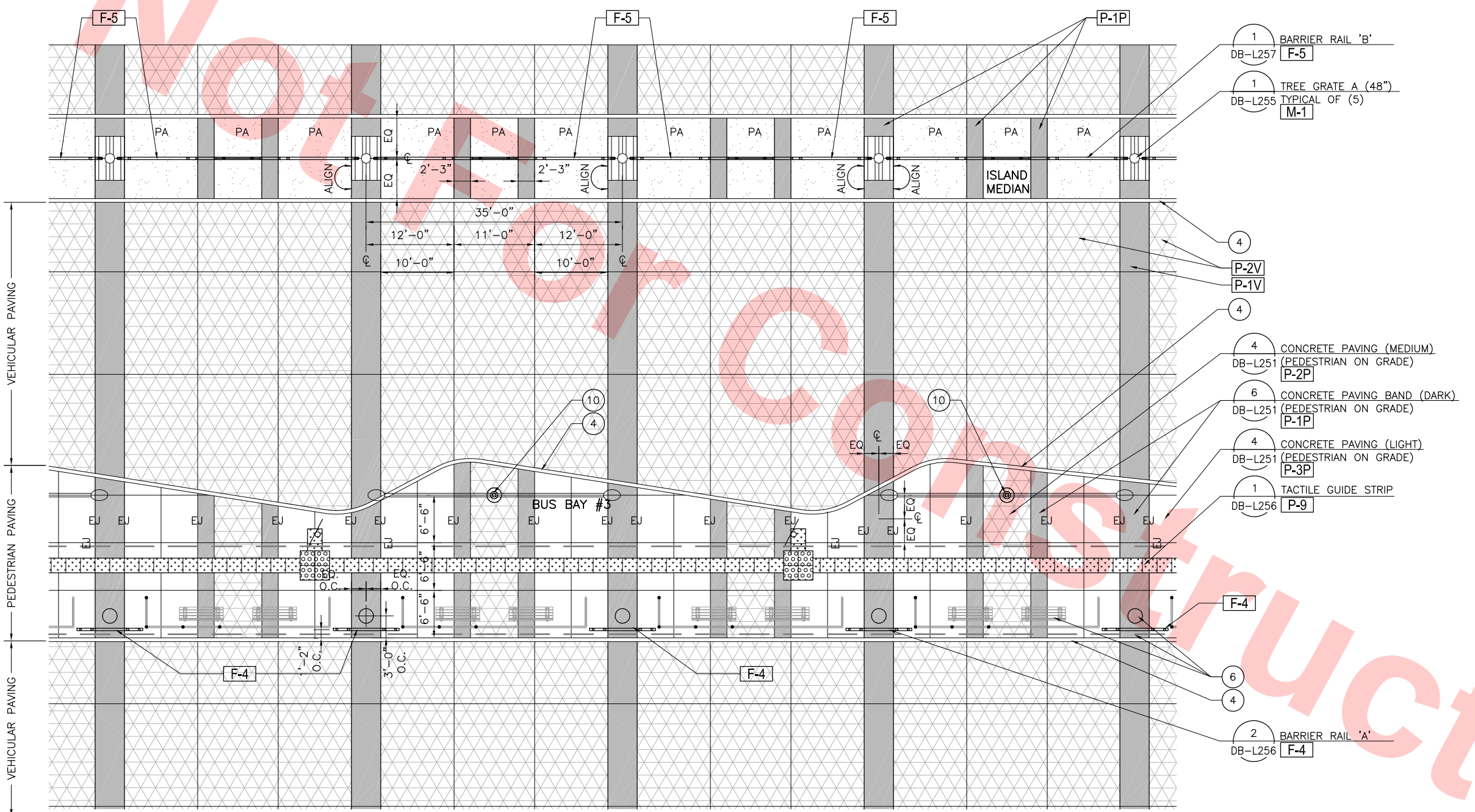
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SIZE SCALE D AS NOTED	CONTRACT NO. C700
AREA CODE DB	SHEET NO. L252
PAGE NO. 0102	



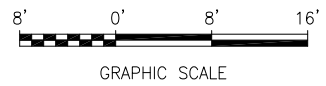
PAVING LAYOUT PLAN AT STATION
SCALE: 1/8"=1'-0"



CADD FILENAME C700-S-DB-L253.dwg		
SIZE D	SCALE AS NOTED	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. L253	PAGE NO. 0103



DETAIL
PAVING LAYOUT PLAN AT TRANSIT CENTER
SCALE: 1/8" = 1'-0"



MATERIAL REFERENCES

REFER TO DRAWING DB-L002 FOR FULL MATERIAL SCHEDULE / LEGEND & DETAIL REFERENCES

- P-X** PAVING NOTE. REFER TO 'PAVING SCHEDULE'
- W-X** WALL NOTE. REFER TO 'WALL SCHEDULE'
- F-X** FENCE NOTE. REFER TO 'FENCE SCHEDULE'
- G-X** GATE NOTE. REFER TO 'GATE SCHEDULE'
- M-X** MISCELLANEOUS CONSTRUCTION NOTE. REFER TO 'CONSTRUCTION NOTE REFERENCE'

COORDINATION NOTES

THESE NOTES ARE FOR COORDINATION PURPOSES. REFER TO COORDINATION NOTES SCHEDULE ON DRAWING DB-L002

SYMBOL	DESCRIPTION
1	TRENCH DRAIN SEE ARCH. DWGS (NOT USED)
2	BIKE RACK SEE ARCH. DWGS (NOT USED)
3	STORM DRAIN OUTLET @ BASIN SEE CIVIL DWGS (NOT USED)
4	CONCRETE CURB SEE CIVIL DWGS
5	CURB RAMP SEE CIVIL DWGS
6	PASSENGER SHELTER SEE ARCH. DRAWINGS
7	PEDESTRIAN OVERCROSSING SEE ARCH. DWGS (NOT USED)
8	COMMUNITY WALL SEE D720 CONTRACT (NOT USED)
9	PEDESTRIAN POLE LIGHT FIXTURE SEE ELECTRICAL DWGS
10	VEHICULAR POLE LIGHT FIXTURE SEE ELECTRICAL DWGS

LEGEND

PA	PLANTING AREA
PA	BIO-RETENTION PLANTING AREA
x x x	UNFINISHED GRADE - 'DIRT'
↔	ALIGN EDGES

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**

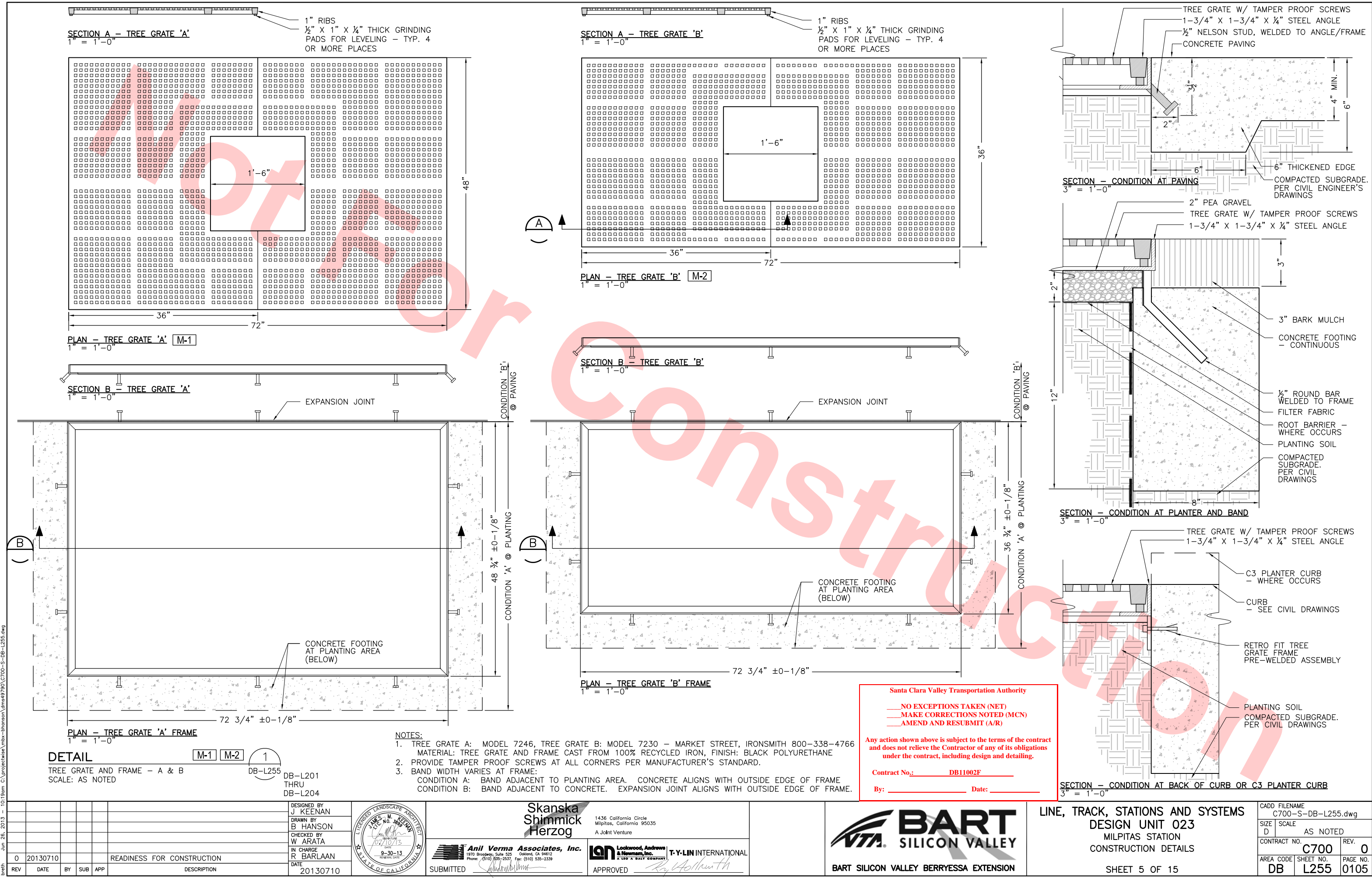
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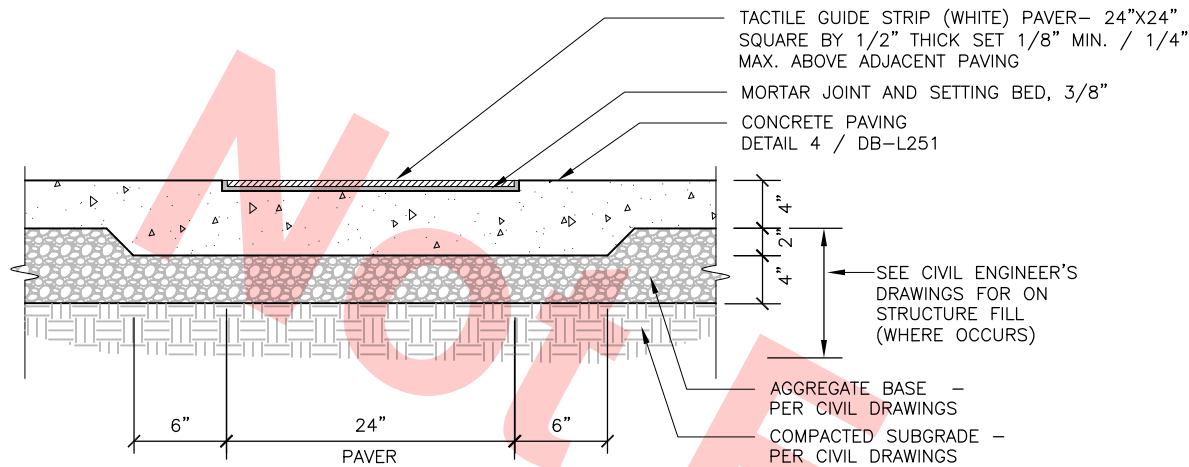
LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023
MILPITAS STATION
CONSTRUCTION DETAILS

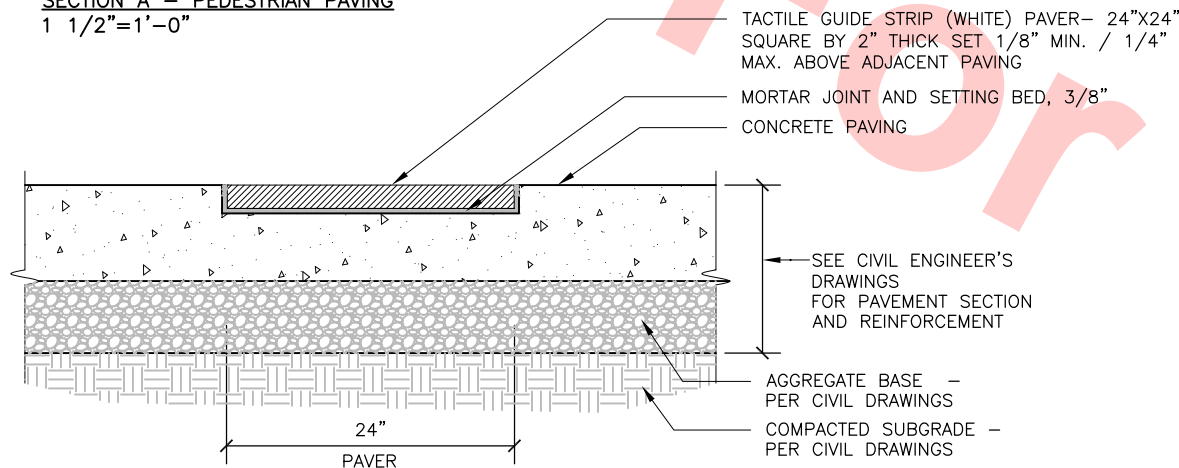
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CONTRACT NO. **C700** REV. **0**
AREA CODE **DB** SHEET NO. **L254** PAGE NO. **0104**

DESIGNED BY J. KEENAN		Skanska Shimmick Herzog 1436 California Circle Milpitas, California 95035 A Joint Venture	Anil Verma Associates, Inc. 1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339	Lookwood, Andrews & Newman, Inc. A LEOPOLD COMPANY	T-Y LIN INTERNATIONAL		LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION CONSTRUCTION DETAILS	SHEET 4 OF 15	
DRAWN BY B. HANSON									
CHECKED BY W. ARATA									
IN CHARGE R. BARLAAN									
DATE 20130710	READINESS FOR CONSTRUCTION								
REV	DATE	BY	SUB	APP					

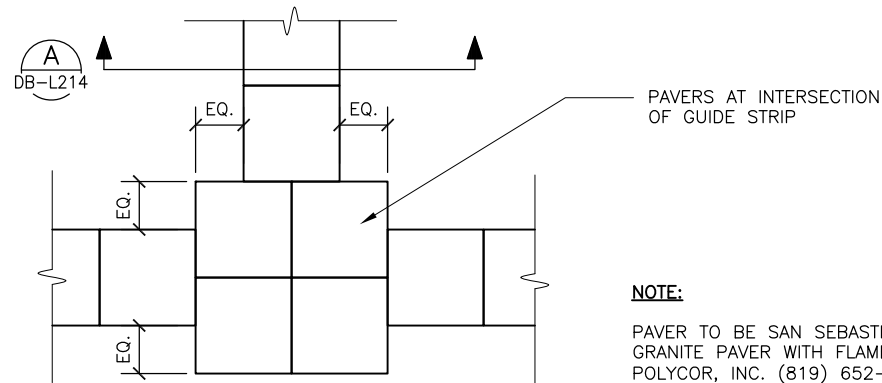




SECTION A - PEDESTRIAN PAVING
1 1/2"=1'-0"



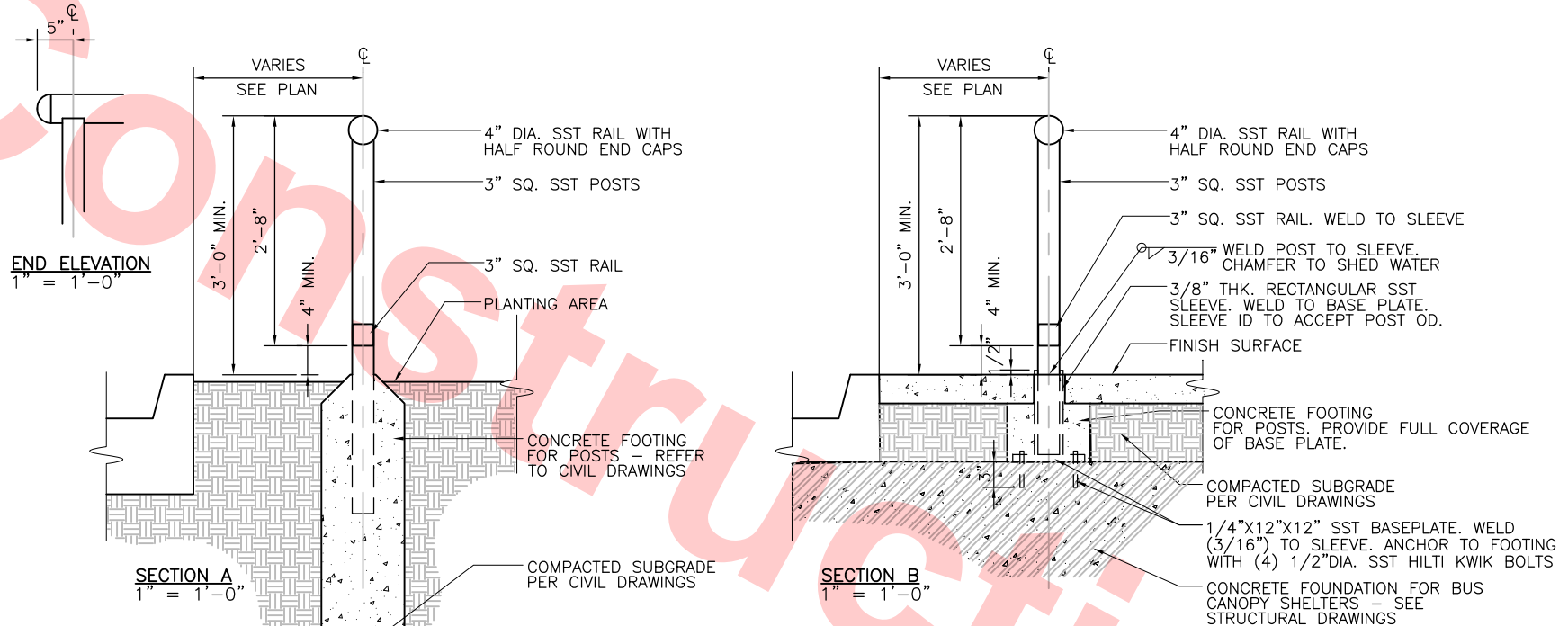
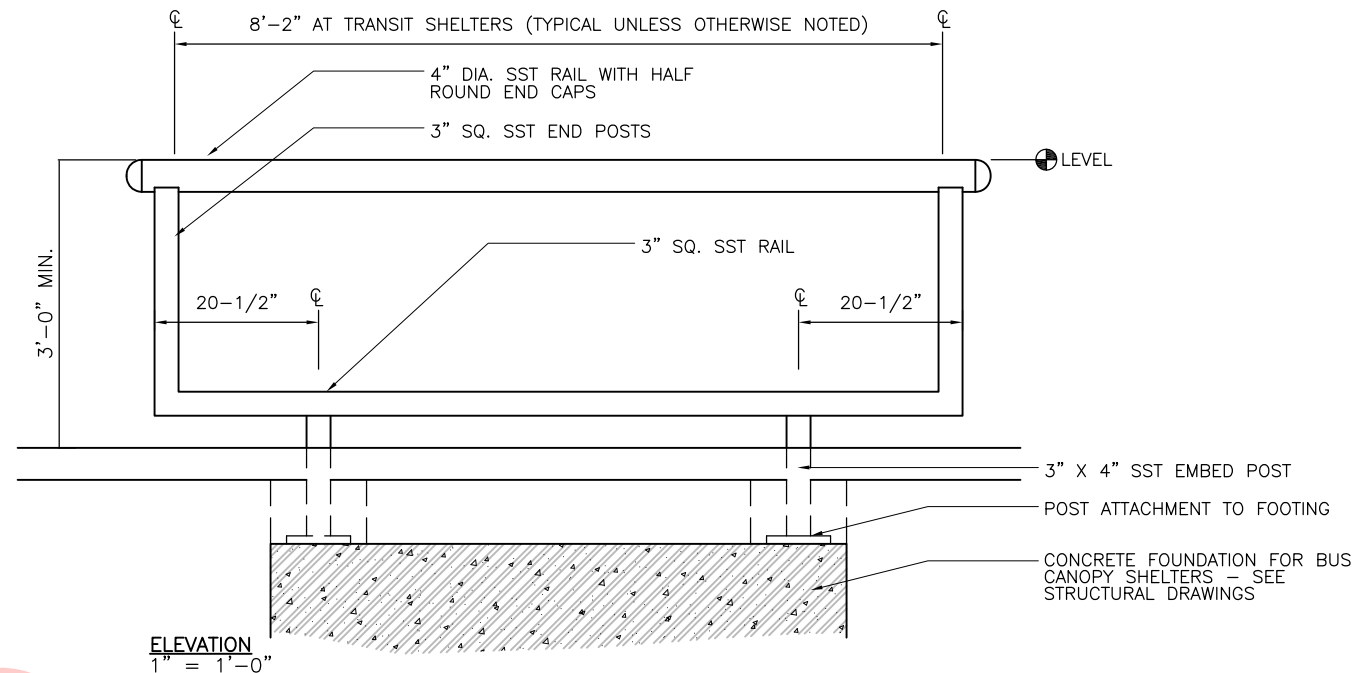
SECTION A - VEHICULAR PAVING
1 1/2"=1'-0"



PLAN
1/2"=1'-0"

DETAIL
TACTILE GUIDE STRIP
SCALE: AS NOTED

DB-L201 THRU DB-L204



NOTES:

1. WELDS SHALL BE CONTINUOUS 1/8" FILLET WELDS AT ALL JOINTS - GRIND SMOOTH AND REMOVE SPATTER AND SLAG
2. STAINLESS STEEL TYPE 316
3. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION

DETAIL
BARRIER RAIL AT TRANSIT SHELTERS - A
SCALE: AS NOTED

DB-L256 DB-L203

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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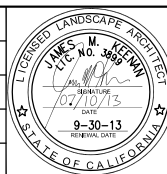
Contract No. DB11002F

By: Date:

Jun 24, 2013 10:46am C:\projects\wms\mbox-shannon\c700-S-DB-L256.dwg

DESIGNED BY J. KEENAN	1	DB-L201 THRU DB-L204
DRAWN BY B. HANSON		
CHECKED BY W. ARATA		
IN CHARGE R. BARLAAN		
DATE 20130710		

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0	20130710				READINESS FOR CONSTRUCTION



Skanska Shimmick Herzog

Anil Verma Associates, Inc.
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

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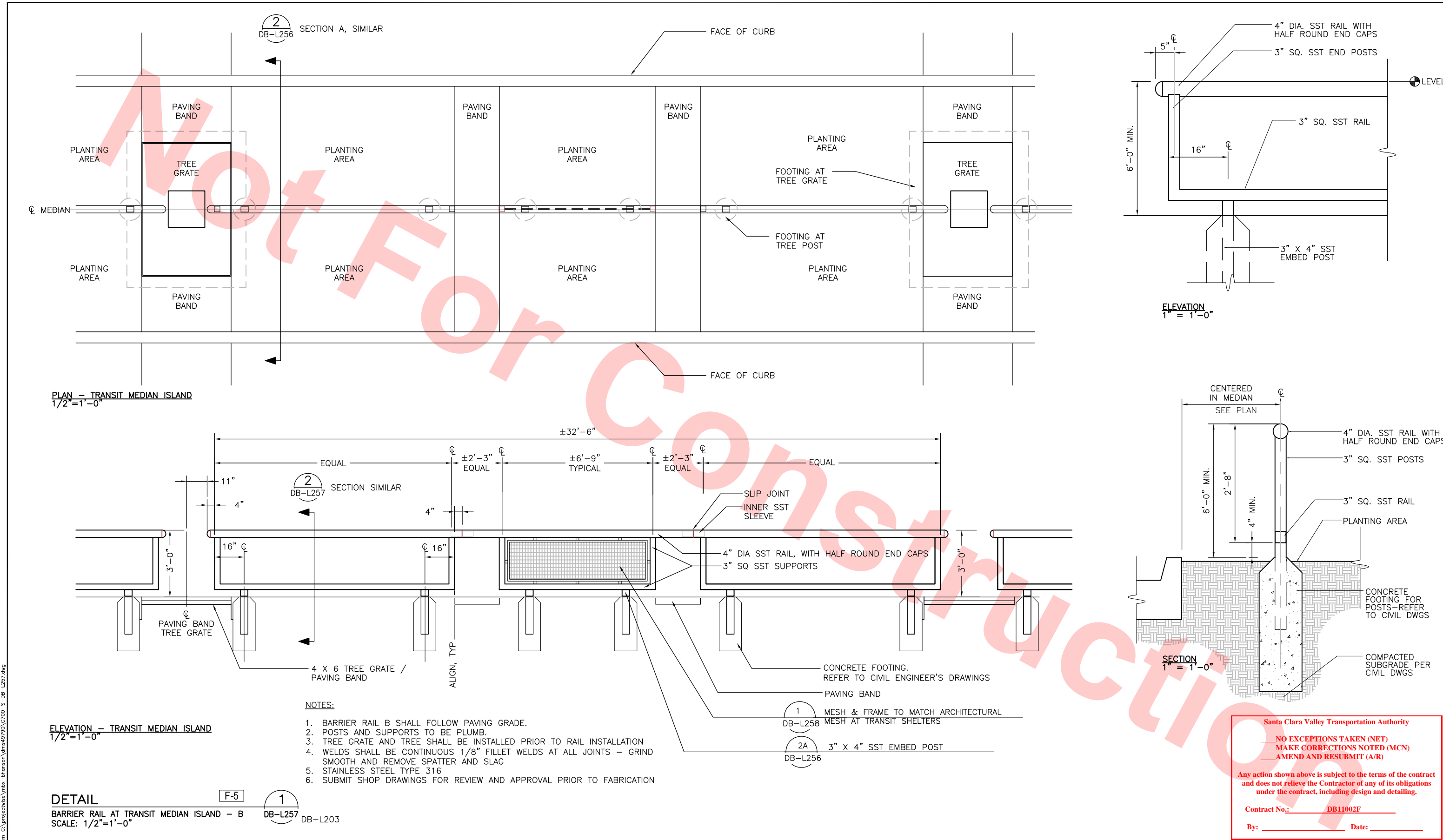
T-Y LIN INTERNATIONAL



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

SHEET 6 OF 15

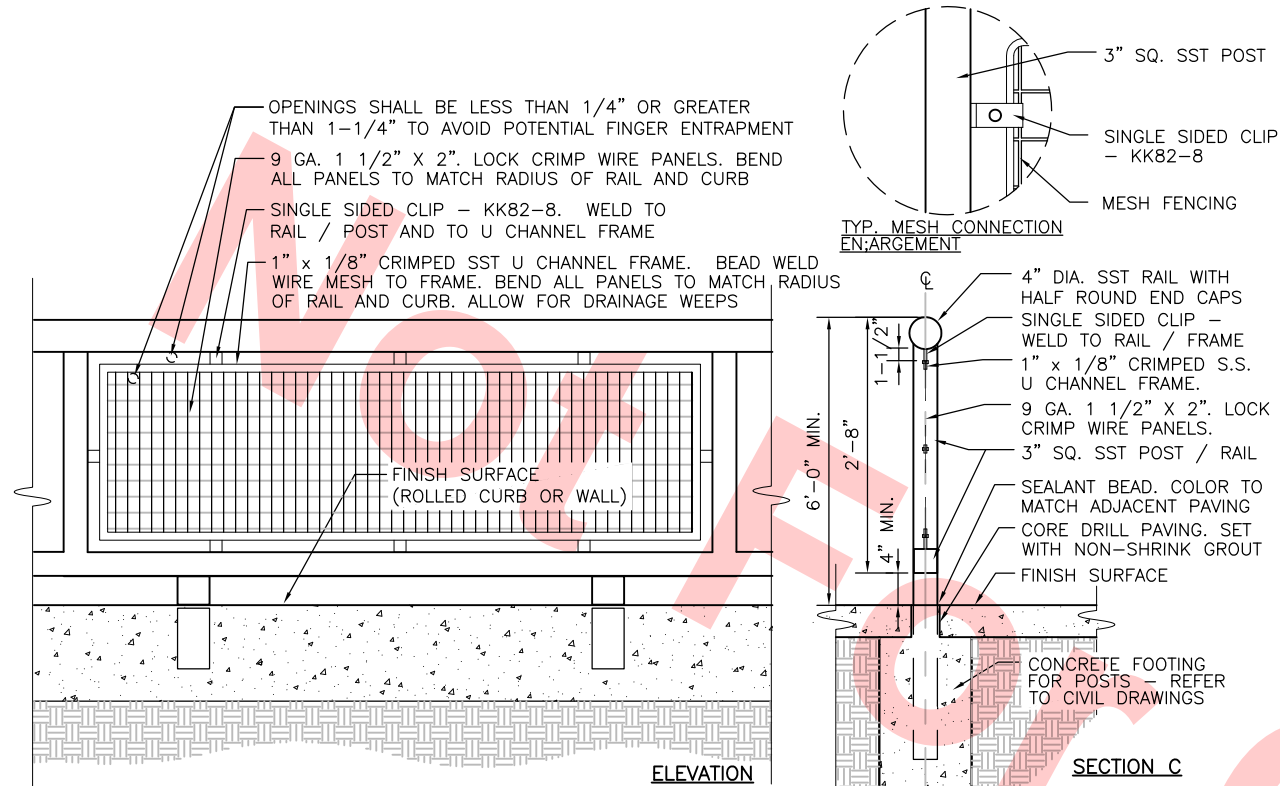
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PAGE NO. 0106	



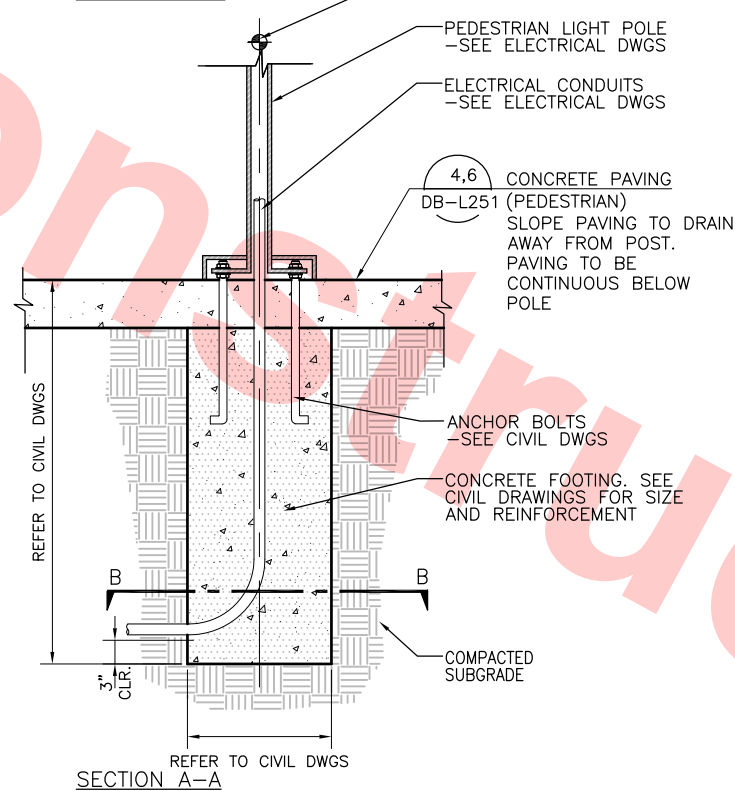
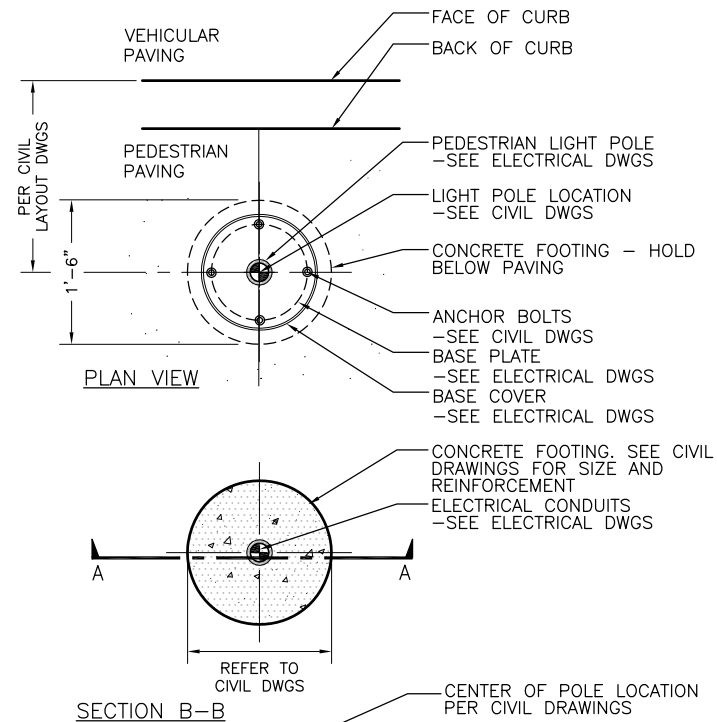
DESIGNED BY J. KEENAN				DRAWN BY B. HANSON				CHECKED BY W. ARATA				IN CHARGE R. BARLAAN				DATE 20130710			
0				20130710				READINESS FOR CONSTRUCTION				DESCRIPTION				20130710			
REV				DATE				BY				SUB				APP			
0				20130710				READINESS FOR CONSTRUCTION				DESCRIPTION				20130710			

SUBMITTED		APPROVED	
Anil Verma Associates, Inc.		T-Y LIN INTERNATIONAL	
1970 Broadway, Suite 525 Milpitas, California 95035 Phone: (510) 835-2537 Fax: (510) 535-2339		Lookwood, Andrews & Newman, Inc. A LEOPOLD COMPANY	

BART SILICON VALLEY BERRYESSA EXTENSION		LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION CONSTRUCTION DETAILS	
SHEET 7 OF 15		CADD FILENAME C700-S-DB-L257.dwg	
SIZE D		SCALE AS NOTED	
CONTRACT NO. C700		REV. 0	
AREA CODE DB		SHEET NO. L257	
		PAGE NO. 0107	



ELEVATION / SECTION - MESH PANEL AND FRAME
1" = 1'-0"
DETAIL
MESH PANEL AND FRAME AT RAILING
SCALE: 1/2"=1'-0"
DB-L258 DB-L202



NOTES:
1. PAVING PATTERNS SHALL RUN CONTINUOUSLY BELOW LIGHT POLE BASE
2. SEE DRAWING DB-L002 FOR PAVING COLOR, FINISH, ETC.

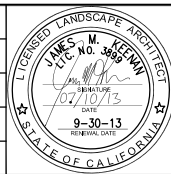
DETAIL
CONCRETE PAVING AT LIGHT POLE (PEDESTRIAN) DB-L258 DB-L201
SCALE: 1-1/2" = 1'-0" DB-L204

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: _____

Jun 24, 2013 10:45am C:\projects\mbox-shannon\c700-s-db-l258.dwg
brett

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY J. KEENAN	
DRAWN BY B. HANSON	
CHECKED BY W. ARATA	
IN CHARGE R. BARLAAN	
DATE 20130710	



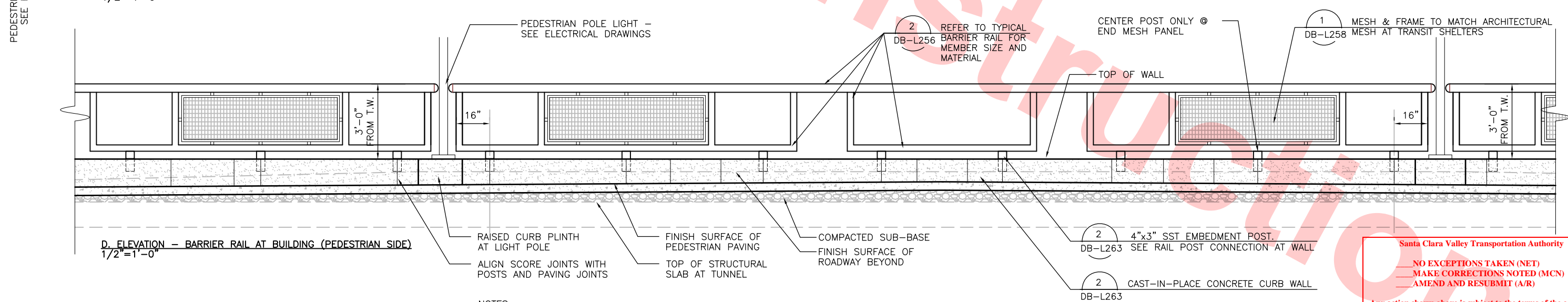
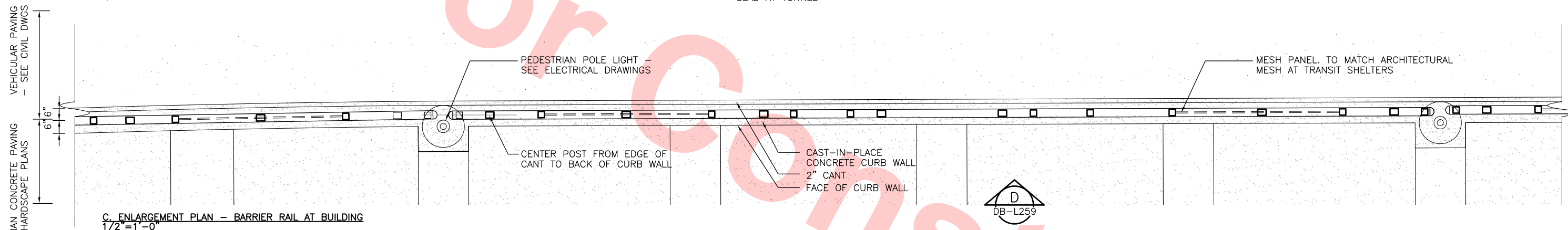
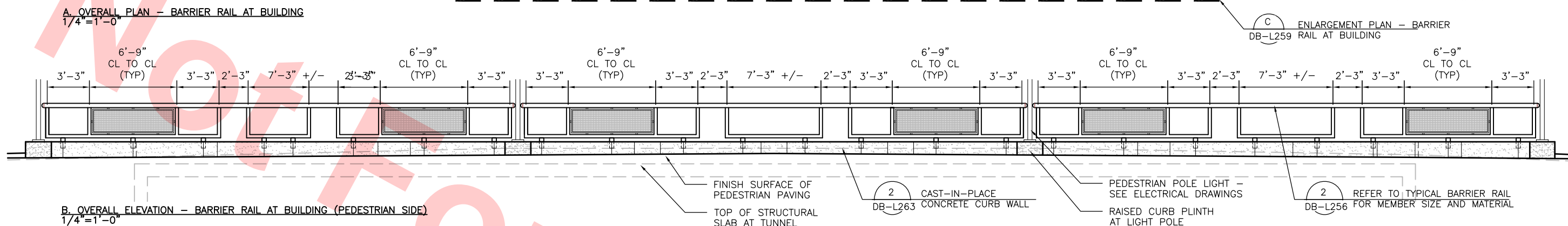
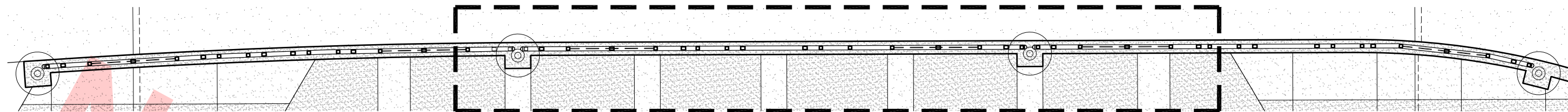
Skanska
Shimmick
Herzog
Anil Verma Associates, Inc.
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

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Milpitas, California 95035
A Joint Venture
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& Newman, Inc.
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LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONSTRUCTION DETAILS
SHEET 8 OF 15

CADD FILENAME C700-S-DB-L258.dwg	SIZE D	SCALE AS NOTED
CONTRACT NO. C700	REVISION 0	
AREA CODE DB	SHEET NO. L258	PAGE NO. 0108



DETAIL
BARRIER RAIL AT BUILDING - D
SCALE: 1/2"=1'-0"

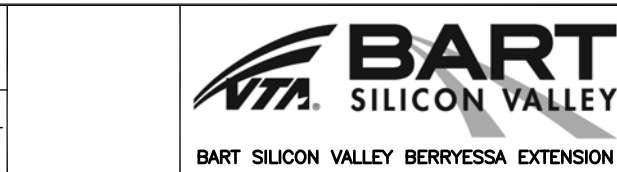
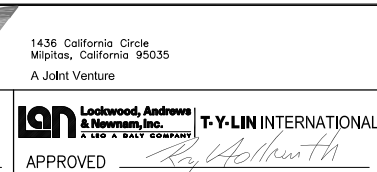
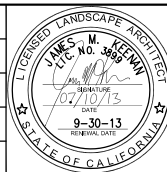
F-7
1
DB-L259 DB-L201

- NOTES:
1. SEE DETAIL 2, DRAWING DB-L256 FOR TYPICAL RAIL MEMBER SIZES AND MATERIAL
2. SEE DETAIL 2, DRAWING DBL-263 FOR RAIL POST CONNECTION AT WALL

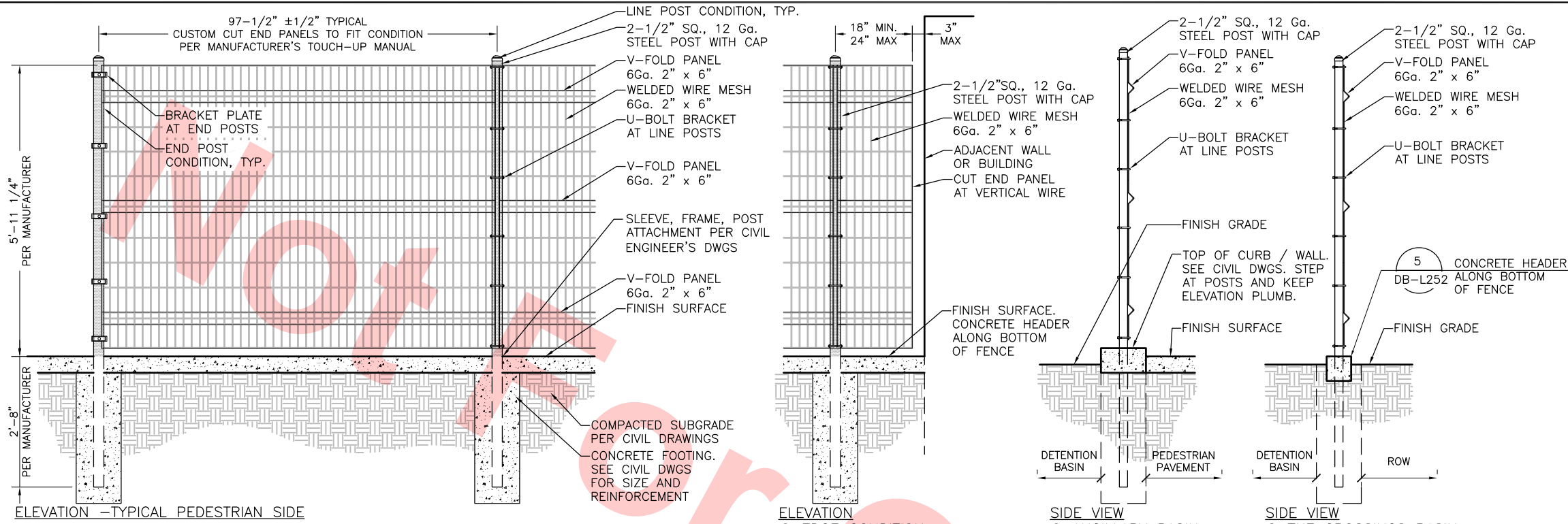
Santa Clara Valley Transportation Authority
NO EXCEPTIONS TAKEN (NET)
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AMEND AND RESUBMIT (A/R)
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Contract No.: DB11002F
By: _____ Date: _____

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breth

DESIGNED BY J. KEENAN	1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339	1436 California Circle Milpitas, California 95035 A Joint Venture	Lookwood, Andrews & Newnam, Inc. A LEOPOLD COMPANY	T-Y-LIN INTERNATIONAL
DRAWN BY B. HANSON	1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339	1436 California Circle Milpitas, California 95035 A Joint Venture	Lookwood, Andrews & Newnam, Inc. A LEOPOLD COMPANY	T-Y-LIN INTERNATIONAL
CHECKED BY W. ARATA	1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339	1436 California Circle Milpitas, California 95035 A Joint Venture	Lookwood, Andrews & Newnam, Inc. A LEOPOLD COMPANY	T-Y-LIN INTERNATIONAL
IN CHARGE R. BARLAAN	1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339	1436 California Circle Milpitas, California 95035 A Joint Venture	Lookwood, Andrews & Newnam, Inc. A LEOPOLD COMPANY	T-Y-LIN INTERNATIONAL
DATE 20130710	1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339	1436 California Circle Milpitas, California 95035 A Joint Venture	Lookwood, Andrews & Newnam, Inc. A LEOPOLD COMPANY	T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION CONSTRUCTION DETAILS	CADD FILENAME C700-S-DB-L259.dwg
SIZE SCALE D AS NOTED	CONTRACT NO. C700
AREA CODE DB	SHEET NO. L259
PAGE NO. 0109	REV. 0



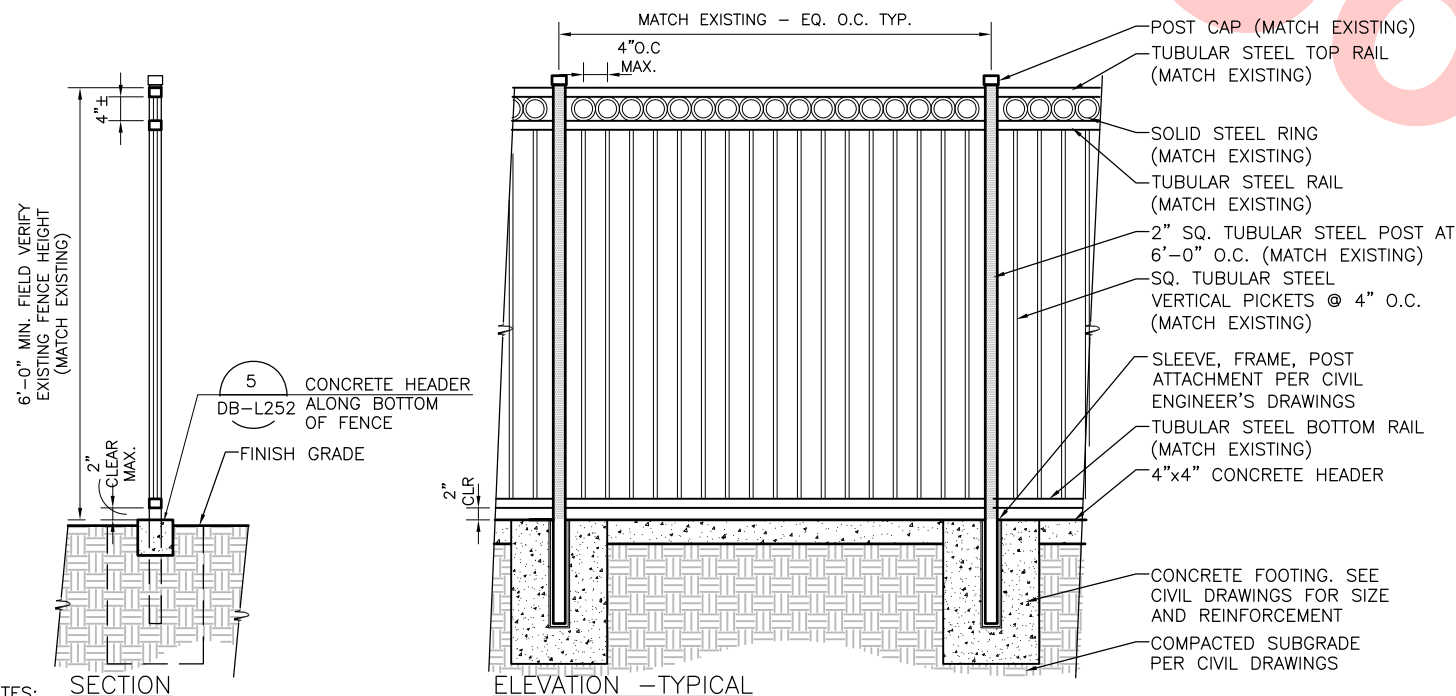
DETAIL

ENCLOSURE FENCE
SCALE: 3/4" = 1'-0"

F-1 F-2 1
DB-L260 DB-L204

NOTES:

1. ALL COMPONENTS OF FENCE TO BE PROVIDED BY MANUFACTURER, REFER TO FENCE SCHEDULE, DRAWING DB-L002 FOR MODEL & MANUFACTURER
2. PAINT & FINISH PER MANUFACTURER, REFER TO DRAWING DB-L002 FOR COLOR
3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER'S REVIEW AND APPROVAL PRIOR TO FABRICATION. SHOP FABRICATE & SHOP PAINT
4. FOLLOW MANUFACTURER'S TOUCH-UP MANUAL WHEN CUTTING CUSTOM SIZED / END PANELS
5. WELDS SHALL BE CONTINUOUS 1/8" FILLET WELDS. GRIND SMOOTH. REMOVE ALL SPLATTER AND SLAG
7. POSTS TO BE HOT DIPPED GALVANIZED PRIOR TO POWERED COAT FINISH



NOTES:

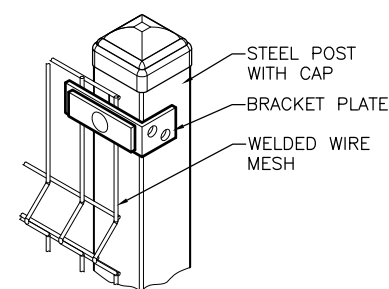
1. WELD ALL CONNECTIONS CONTINUOUS WITH 1/8" FILLET WELDS
2. REMOVE ALL SPATTER & SLAG, GRIND ALL WELDS SMOOTH
3. PAINT ALL EXPOSED SURFACES ONE COAT PRIMER, TWO COATS PAINT. REFER TO SCHEDULE FOR COLOR & FINISH
4. FENCE COMPONENTS, SIZES, & DIMENSIONS TO BE VERIFIED IN THE FIELD AND MATCHED WITH EXISTING FENCE AT 'THE CROSSING AT MONTAGUE.' CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER'S REVIEW AND APPROVAL PRIOR TO FABRICATION
5. POSTS TO BE HOT DIPPED GALVANIZED

DETAIL

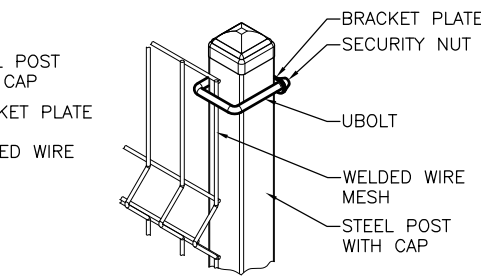
PERIMETER FENCE AT THE CROSSING DETENTION BASIN (MATCH EXISTING)
SCALE: 3/4" = 1'-0"

F-3 2
DB-L260 DB-L202

V-FOLD ENLARGEMENT



END POST CONNECTION ENLARGMENT



LINE POST CONNECTION ENLARGMENT

Santa Clara Valley Transportation Authority

- NO EXCEPTIONS TAKEN (NET)
- MAKE CORRECTIONS NOTED (MCN)
- AMEND AND RESUBMIT (A/R)

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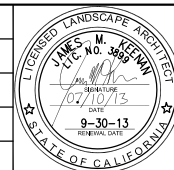
Contract No.: DB11002F

By: _____ Date: _____

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REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY
J. KEENAN
DRAWN BY
B. HANSON
CHECKED BY
W. ARATA
IN CHARGE
R. BARLAAN
DATE
20130710



Skanska
Shimmick
Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Anil Verma Associates, Inc.
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

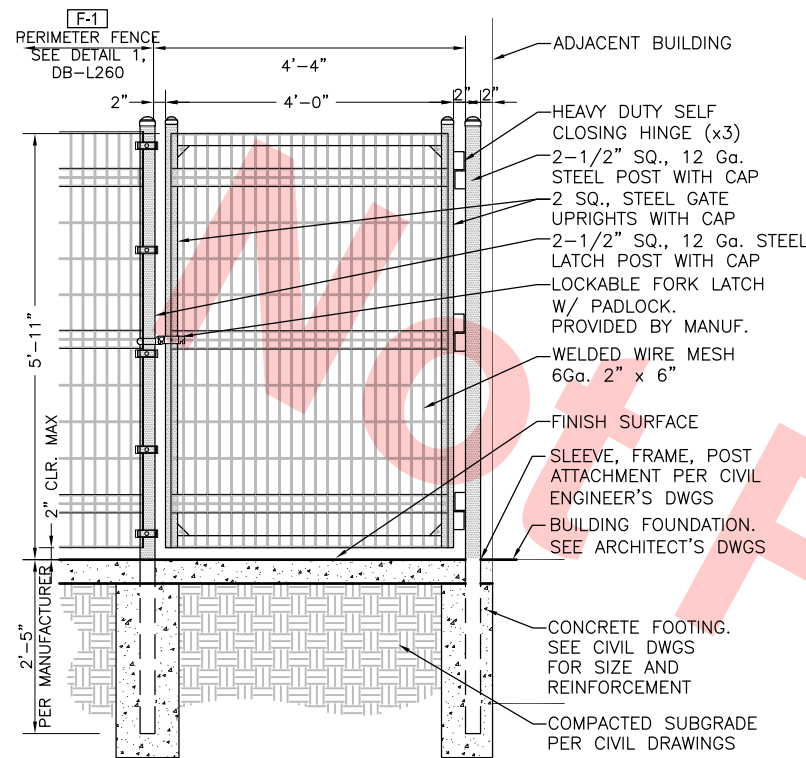
Lookwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY
T-Y LIN INTERNATIONAL
APPROVED

BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

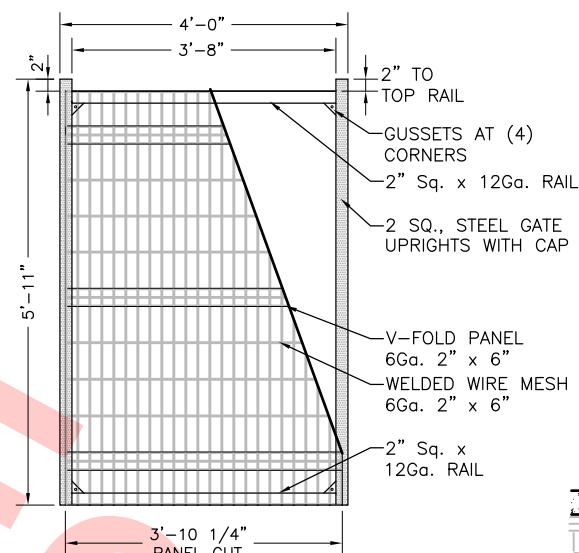
LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONSTRUCTION DETAILS

SHEET 10 OF 15

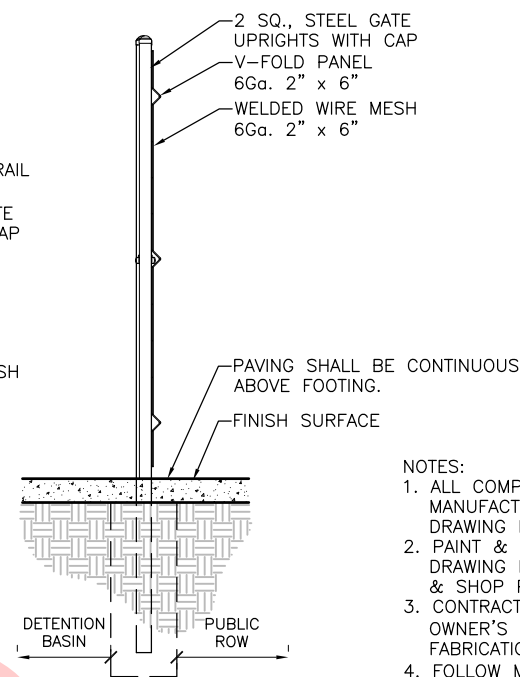
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AREA CODE DB	SHEET NO. L260	PAGE NO. 0110



ELEVATION - TYPICAL PEDESTRIAN SIDE



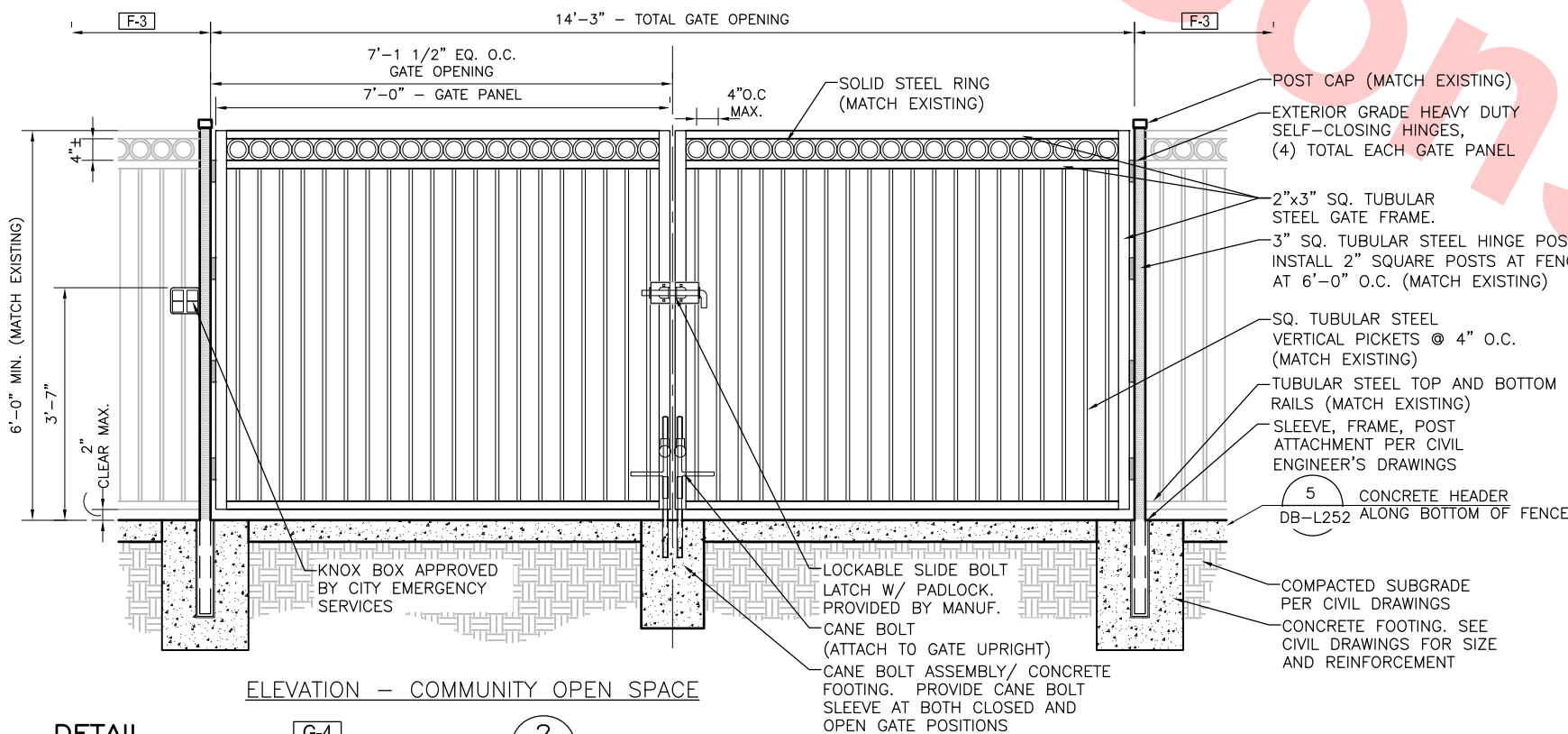
ELEVATION - GATE PANEL



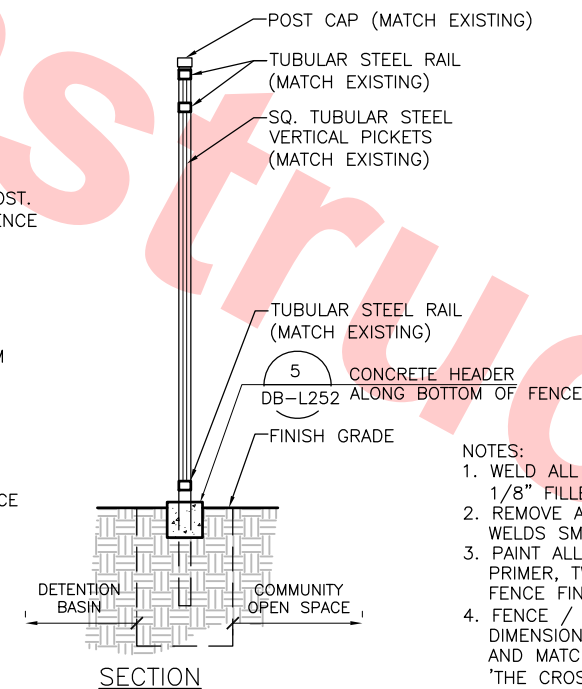
SECTION - GATE PANEL

- NOTES:
1. ALL COMPONENTS OF GATE TO BE PROVIDED BY MANUFACTURER, REFER TO GATE SCHEDULE, DRAWING DB-L022, FOR MODEL & MANUFACTURER
 2. PAINT & FINISH PER MANUFACTURER, REFER TO DRAWING DB-L002 FOR COLOR. SHOP FABRICATE & SHOP PAINT
 3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER'S REVIEW AND APPROVAL PRIOR TO FABRICATION
 4. FOLLOW MANUFACTURER'S TOUCH-UP MANUAL WHEN CUTTING CUSTOM SIZED / END PANELS
 5. WELDS SHALL BE CONTINUOUS 1/8\"
 7. POSTS SHALL BE HOT DIPPED GALVANIZED PRIOR TO POWERED COAT FINISH

DETAIL **G-1**
PERIMETER GATE AT DETENTION BASIN
SCALE: 3/4\" = 1'-0\"



ELEVATION - COMMUNITY OPEN SPACE



SECTION

- NOTES:
1. WELD ALL CONNECTIONS CONTINUOUS WITH 1/8\"
 2. REMOVE ALL SPATTER & SLAG, GRIND ALL WELDS SMOOTH
 3. PAINT ALL EXPOSED SURFACES ONE COAT PRIMER, TWO COATS PAINT. MATCH EXISTING FENCE FINISH AND COLOR
 4. FENCE / GATE COMPONENTS, SIZES, & DIMENSIONS TO BE VERIFIED IN THE FIELD AND MATCHED WITH EXISTING FENCE AT 'THE CROSSING AT MONTAGUE.' CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR OWNER'S REVIEW AND APPROVAL PRIOR TO FABRICATION
 5. POSTS SHALL BE HOT DIPPED GALVANIZED

DETAIL **G-4**
VEHICULAR ACCESS GATE (MATCH EXISTING)
AT THE CROSSING DETENTION BASIN
SCALE: 3/4\" = 1'-0\"

Santa Clara Valley Transportation Authority

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AMEND AND RESUBMIT (A/R)

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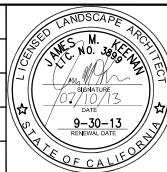
Contract No.: DB11002F

By: _____ Date: _____

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DESIGNED BY J. KEENAN	
DRAWN BY B. HANSON	
CHECKED BY W. ARATA	
IN CHARGE R. BARLAAN	
DATE 20130710	

0	20130710				READINESS FOR CONSTRUCTION
REV	DATE	BY	SUB	APP	DESCRIPTION



Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

Lookwood, Andrews & Newman, Inc.
A LEOPARD COMPANY

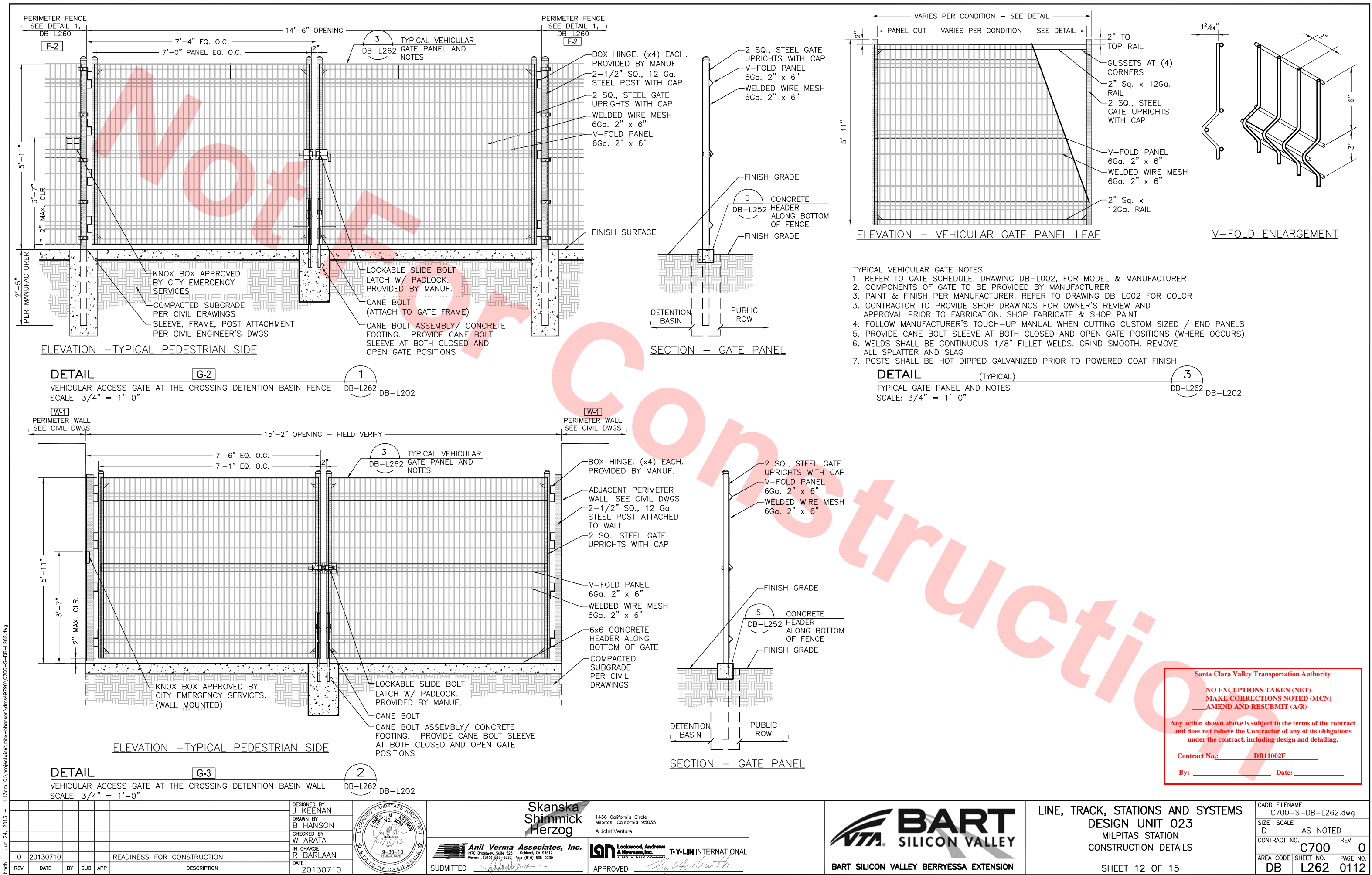
T-Y-LIN INTERNATIONAL

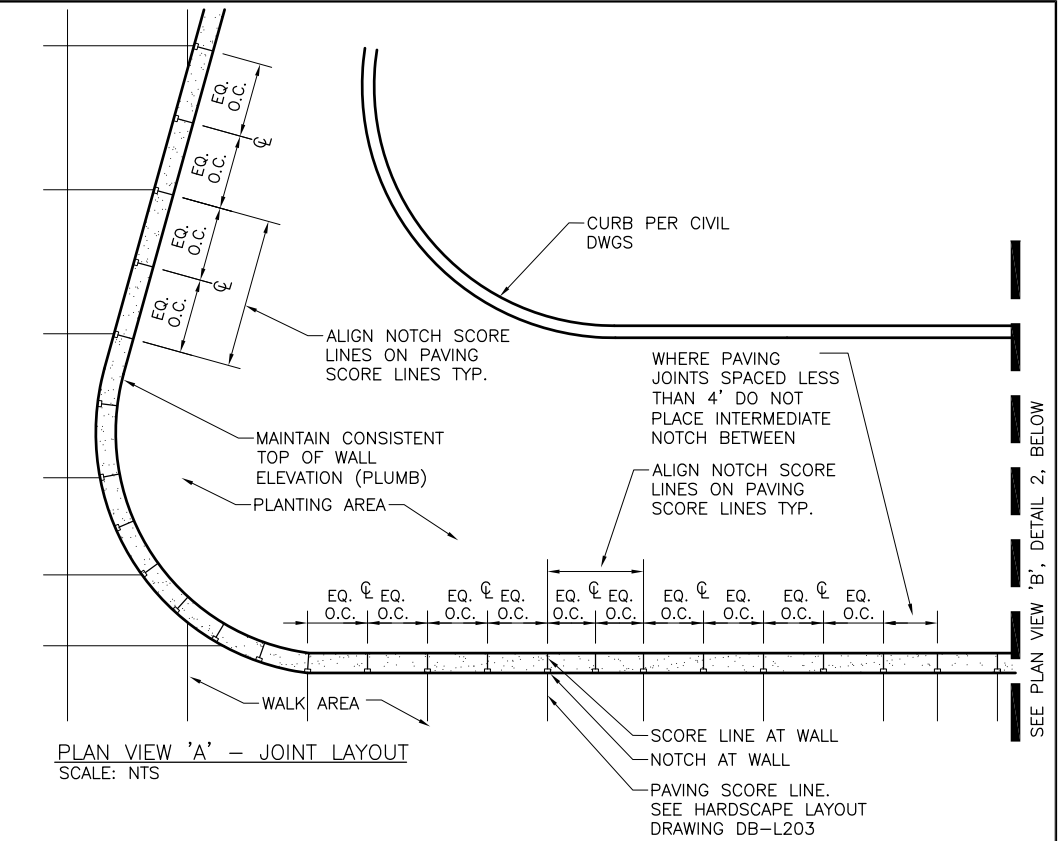
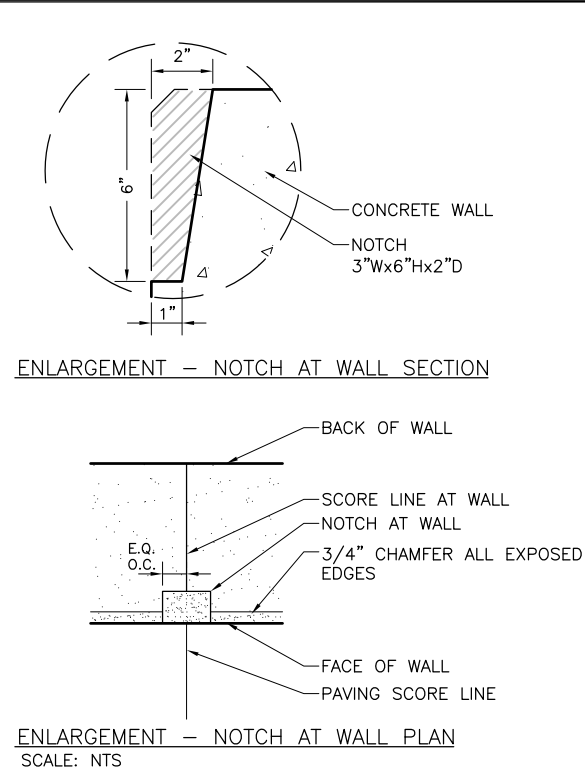
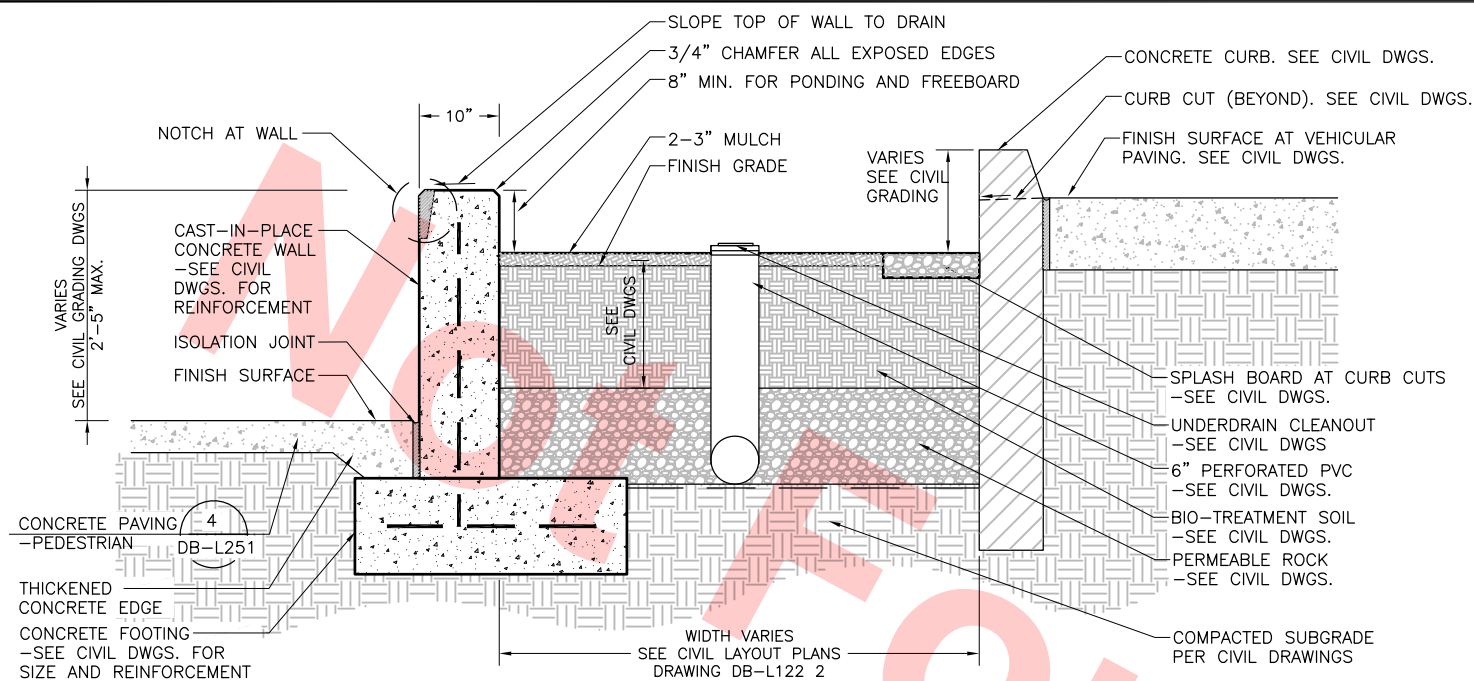


LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONSTRUCTION DETAILS

SHEET 11 OF 15

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SIZE D	SCALE AS NOTED
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. L261
	PAGE NO. 0111



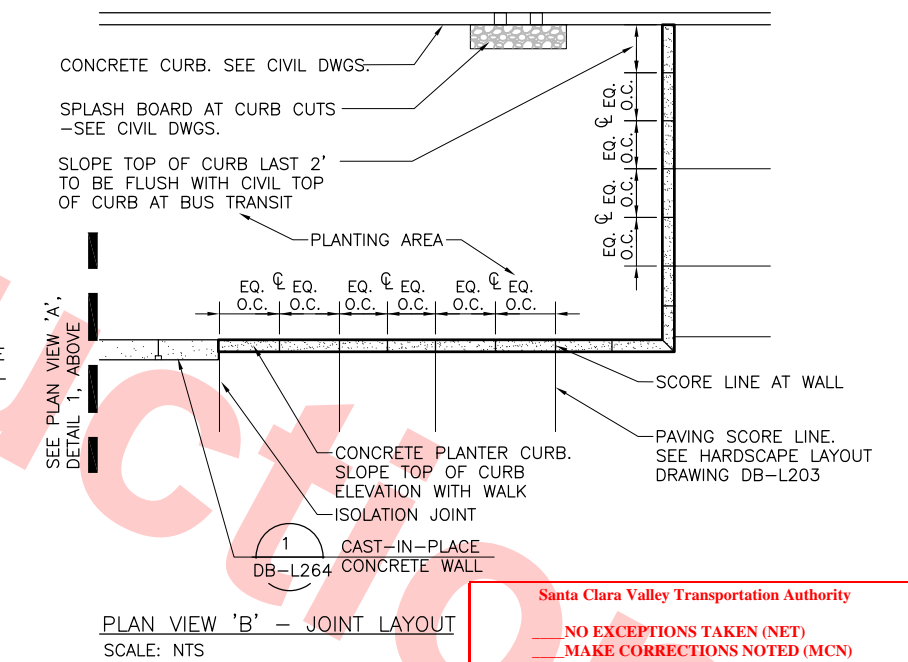
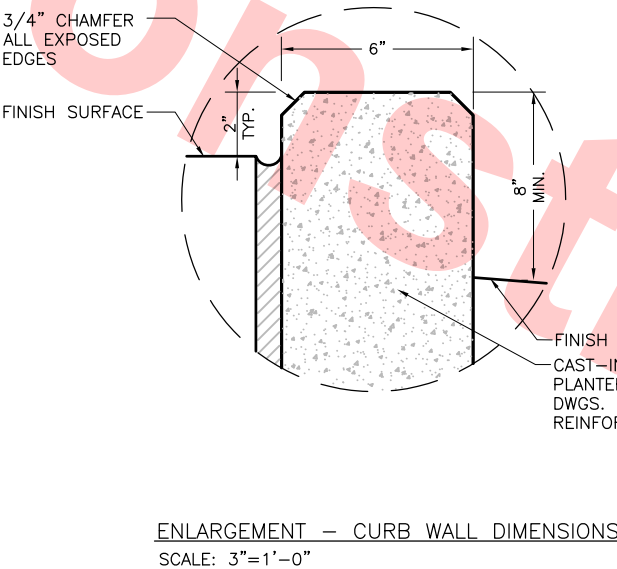
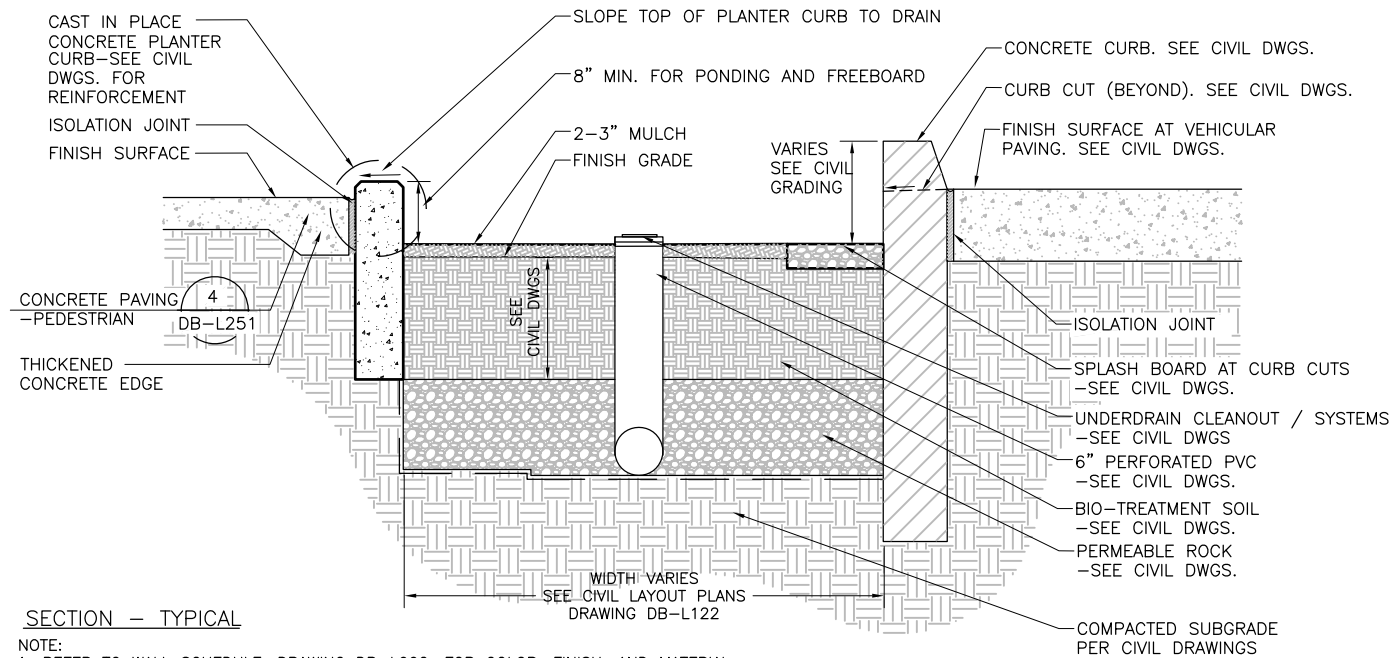


DETAIL W-3

CAST-IN-PLACE CONCRETE WALL AT BIO-TREATMENT AREA

SCALE: 1" = 1'-0"

DB-L264 DB-L203



DETAIL W-4

CAST-IN-PLACE CONCRETE PLANTER CURB AT BIO-TREATMENT AREA

SCALE: 1" = 1'-0"

DB-L264 DB-L203

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: _____

Jun 24, 2013 11:22am C:\projects\wms\mbox-shannon\lms49790\0700-S-DB-L264.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY J. KEENAN
DRAWN BY B. HANSON
CHECKED BY W. ARATA
IN CHARGE R. BARLAAN
DATE 20130710

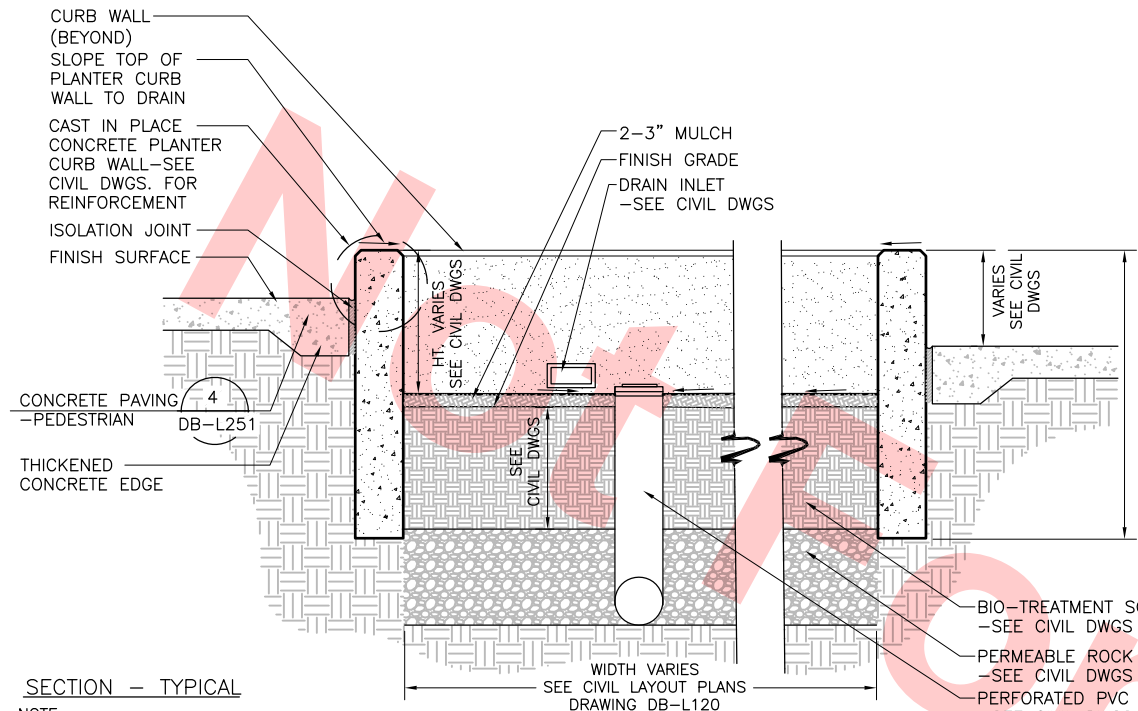
Skanska Shimmick Herzog
1436 California Circle Milpitas, California 95035 A Joint Venture
Anil Verma Associates, Inc. 1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339

Lookwood, Andrews & Newnam, Inc. A LEOPOLD COMPANY
T-Y LIN INTERNATIONAL

BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
CONSTRUCTION DETAILS
SHEET 14 OF 15

CADD FILENAME C700-S-DB-L264.dwg
SIZE SCALE D AS NOTED
CONTRACT NO. C700
REV. 0
AREA CODE DB
SHEET NO. L264
PAGE NO. 0114



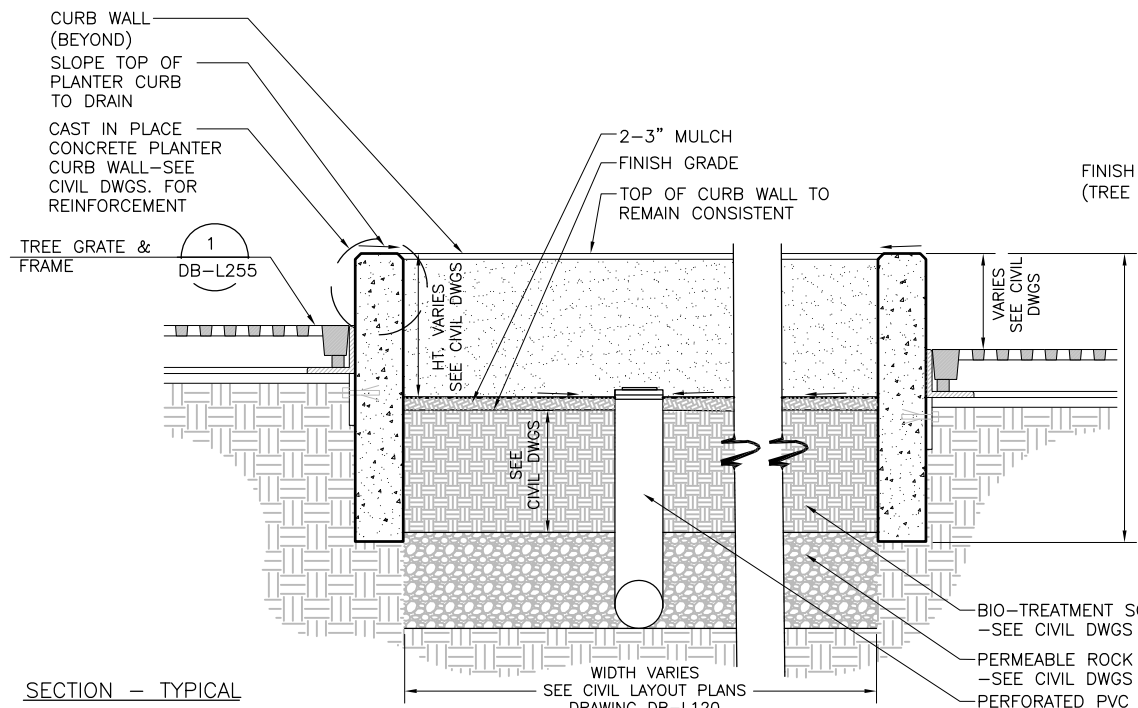
SECTION - TYPICAL

NOTE:
 1. REFER TO WALL SCHEDULE, DRAWING DB-L002, FOR COLOR, FINISH, AND MATERIAL.
 2. REFER TO CIVIL DRAWINGS FOR ALL GRADING, WALL REINFORCEMENT, FOOTING SIZES, AND BIORETENTION

DETAIL

CAST-IN-PLACE CONCRETE PLANTER CURB AT STATION EAST SIDE BIO-TREATMENT AREA DB-L265 DB-L201

SCALE: 1" = 1'-0"



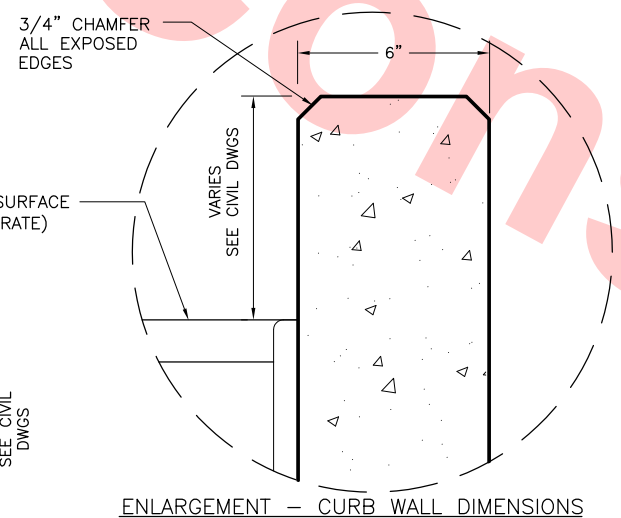
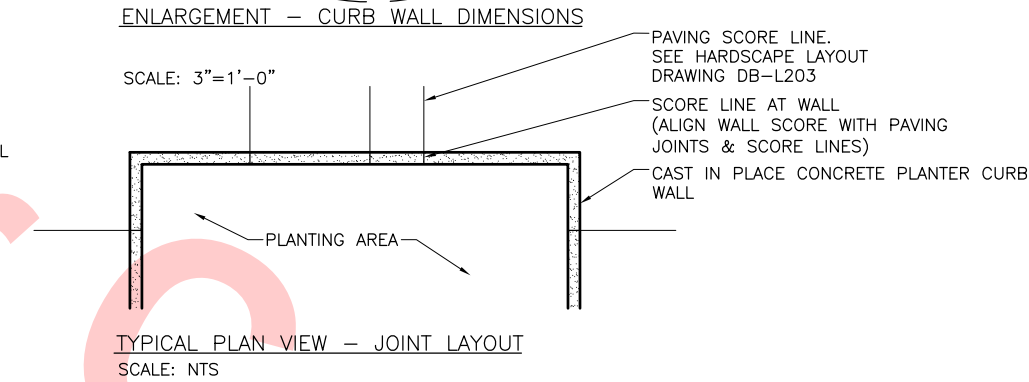
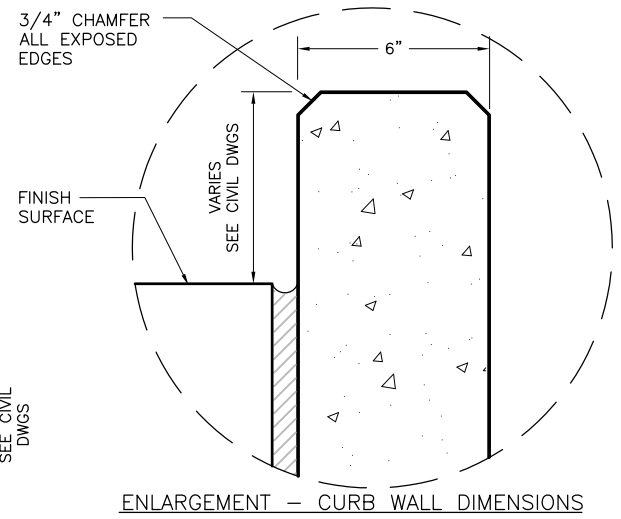
SECTION - TYPICAL

NOTE:
 1. REFER TO WALL SCHEDULE, DRAWING DB-L002, FOR COLOR, FINISH, AND MATERIAL.
 2. REFER TO CIVIL DRAWINGS FOR ALL GRADING, WALL REINFORCEMENT, FOOTING SIZES, AND BIORETENTION

DETAIL

CAST-IN-PLACE CONCRETE PLANTER CURB AT MONTAGUE EX. BIO-TREATMENT AREA DB-L265 DB-L203

SCALE: 1" = 1'-0"



Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
 MAKE CORRECTIONS NOTED (MCN)
 AMEND AND RESUBMIT (A/R)

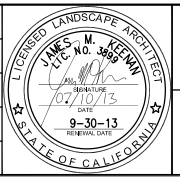
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____

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REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION



DESIGNED BY
J. KEENAN

DRAWN BY
B. HANSON

CHECKED BY
W. ARATA

IN CHARGE
R. BARLAAN

DATE
20130710

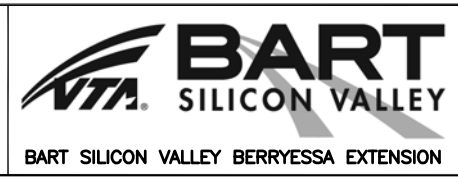
Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

Lookwood, Andrews & Newnam, Inc.
A LEOPOLD COMPANY

T-Y-LIN INTERNATIONAL



LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

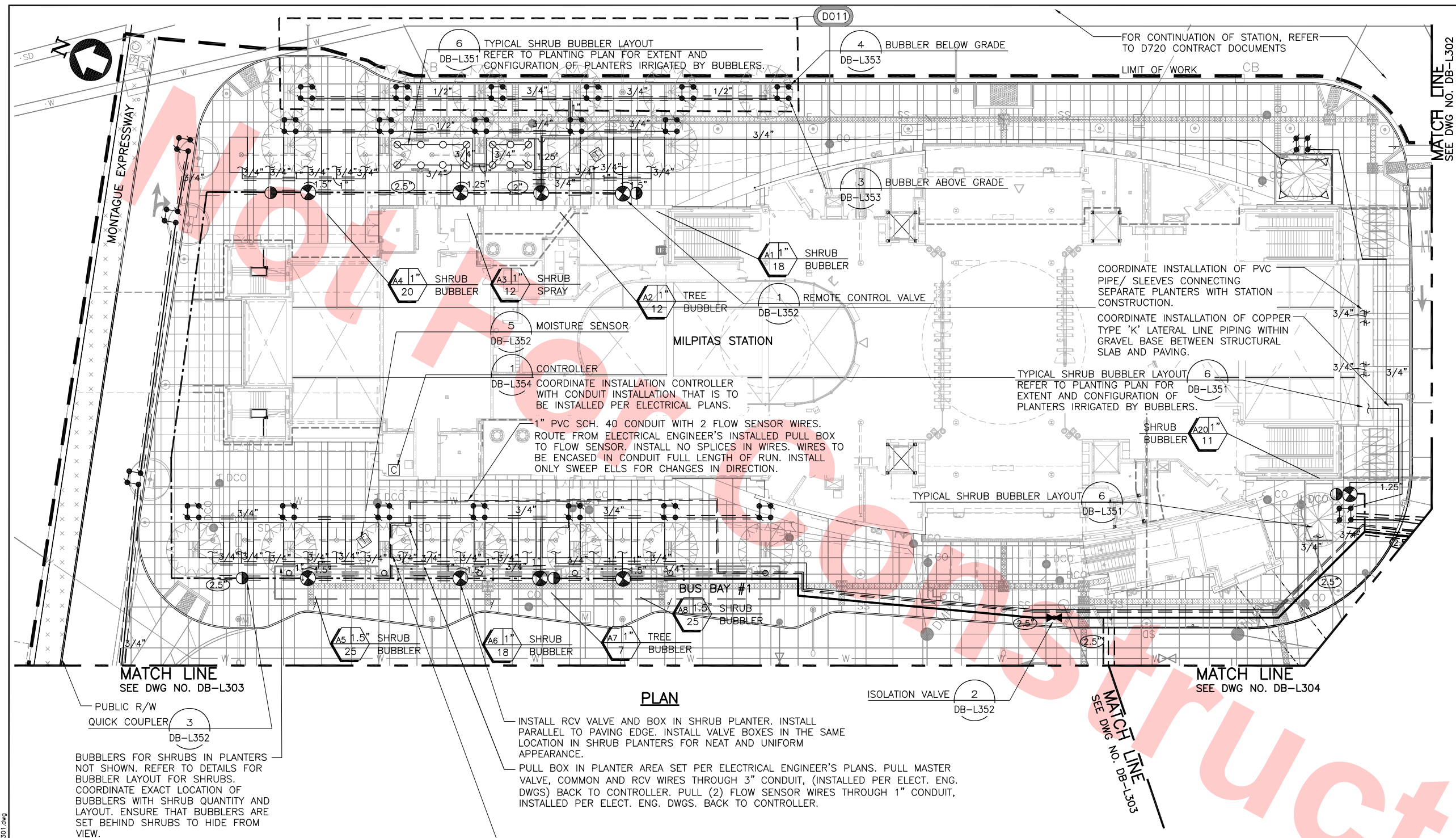
MILPITAS STATION

CONSTRUCTION DETAILS

SHEET 15 OF 15

CADD FILENAME C700-S-DB-L265.dwg	SIZE D	SCALE AS NOTED
CONTRACT NO. C700	REV. 0	
AREA CODE DB	SHEET NO. L265	PAGE NO. 0115

Jun 24 2013 - 11:36am C:\nrcjctwice\mkv-bhaneen\dms4g790\C700-S-08-1300.dwg



REFERENCE NOTES

1. REFER TO DRAWING DB-L300 FOR IRRIGATION LEGEND AND NOTES.
2. REFER TO DRAWINGS DB-L351-L354 FOR IRRIGATION DETAILS.
3. REFER TO DRAWING DB-L354 FOR RECYCLED WATER NOTES.

Santa Clara Valley Transportation Authority












☐ NO EXCEPTIONS TAKEN (NET)
☐ MAKE CORRECTIONS NOTED (MCN)
☐ AMEND AND RESUBMIT (A/R)

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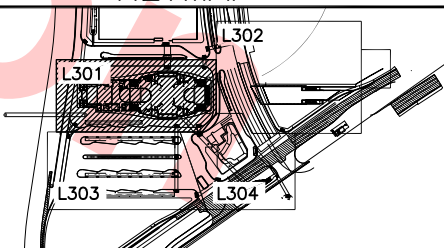
Contract No.: **DB11002F**

By: _____ **Date:** _____

LEGEND

ABOVE-GRADE BUBBLERS	
BELOW-GRADE BUBBLERS	
IRRIGATION REMOTE CONTROL VALVE	
QUICK COUPLER	
ISOLATION BALL VALVE	
CONTROLLER	
BACKFLOW PREVENTER	
FLOW SENSOR	
MASTER VALVE	
BASKET STRAINER	
METER - NON POTABLE	

KEYMAP

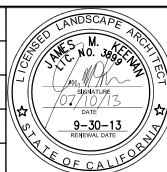


20' 0' 20' 40'

GRAPHIC SCALE

11							DESIGNED BY J KEENAN
10							DRAWN BY B HANSON
9							CHECKED BY W ARATA
8							IN CHARGE R BARLAAN
7	0	20130710				READINESS FOR CONSTRUCTION	DATE 20130710
6	REV	DATE	BY	SUB	APP	DESCRIPTION	

DESIGNED BY	J KEENAN
DRAWN BY	B HANSON
CHECKED BY	W ARATA
IN CHARGE	R BARLAAM
DATE	201307



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

 **Anil Verma Associates, Inc.**
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 535-2537 Fax: (510) 535-2339

LAN Lockwood, Andrews & Newnam, Inc.
A LEO A DALY COMPANY



BART SILICON VALLEY BERRYESSA EXTENSION

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

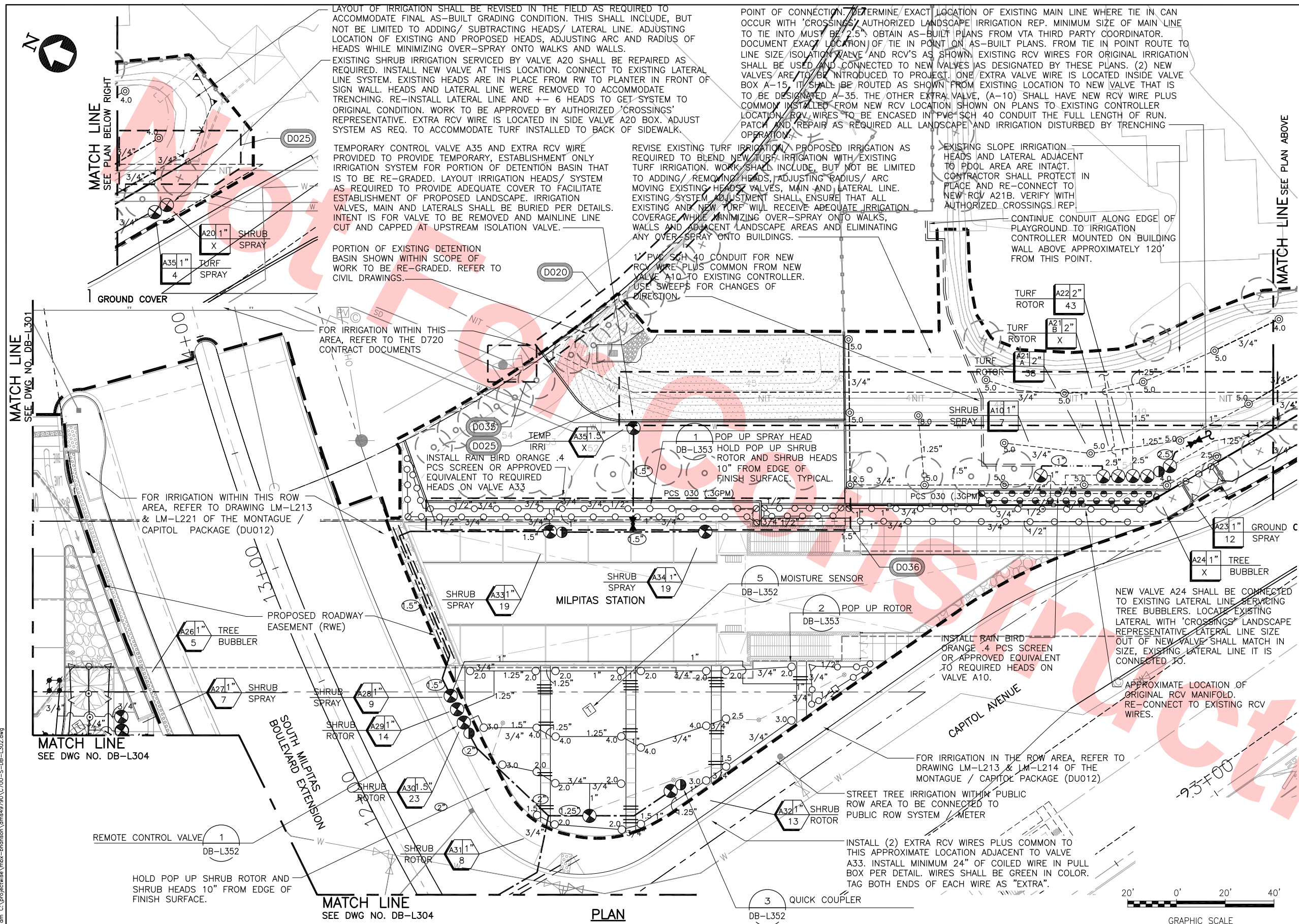
SHEET 1 OF 4

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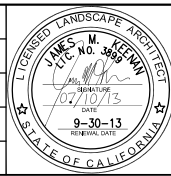
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CONTRACT NO.	C700	REV.	0
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AREA CODE	SHEET NO.	PAGE NO.
DD	1301	0117



0 Jul 26, 2013						DESIGNED BY J KEENAN
						DRAWN BY B HANSON
						CHECKED BY W ARATA
						IN CHARGE R BARLAAN
	0	20130710				READINESS FOR CONSTRUCTION
	REV	DATE	BY	SUB	APP	DESCRIPTION
						DATE 20130710



Skanska
Shimmick
Herzog

 **Anil Verma Associates, Inc.**
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 535-2537 Fax: (510) 535-2339

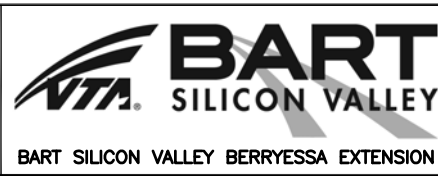
SUBMITTED 

1436 California Circle
Milpitas, California 95035

A Joint Venture

LAN **Lockwood, Andrews & Newman, Inc.** **T-Y-LIN INTERNATIONAL**
A LEO A DALY COMPANY

APPROVED *Ry. Adkins*



LINE, TRACK, STATIONS AND SYSTEMS
DESIGN UNIT 023
MILPITAS STATION
IRRIGATION PLAN
SHEET 2 OF 4












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CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. L302	PAGE NO. 0118

IRRIGATION REFERENCE NOTES

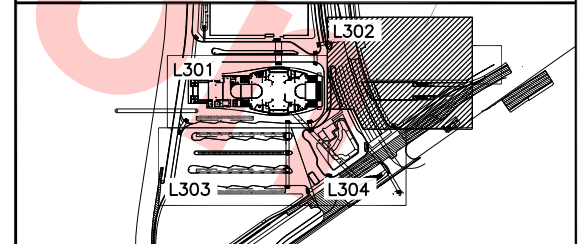
1. REFER TO DRAWING DB-L300 FOR IRRIGATION LEGEND AND NOTES.
2. REFER TO DRAWINGS DB-L351-L354 FOR IRRIGATION DETAILS.
3. REFER TO DRAWING DB-L354 FOR RECYCLED WATER NOTES.
4. REFER TO ORIGINAL CONTROLLER CHART 'A' AND PROJECT AS-BUILTS FOR CROSSINGS IRRIGATION SYSTEM. COORDINATE WITH VTA THIRD PARTY COORDINATOR.
5. COORDINATE ALL WORK WITHIN 'CROSSINGS' PRIVATE PROPERTY WITH AUTHORIZED 'CROSSINGS' LANDSCAPE IRRIGATION REPRESENTATIVE.
6. IRRIGATION CONTROLLER LOCATED ON OUTSIDE WALL OF DAY CARE CENTER PLAYGROUND.

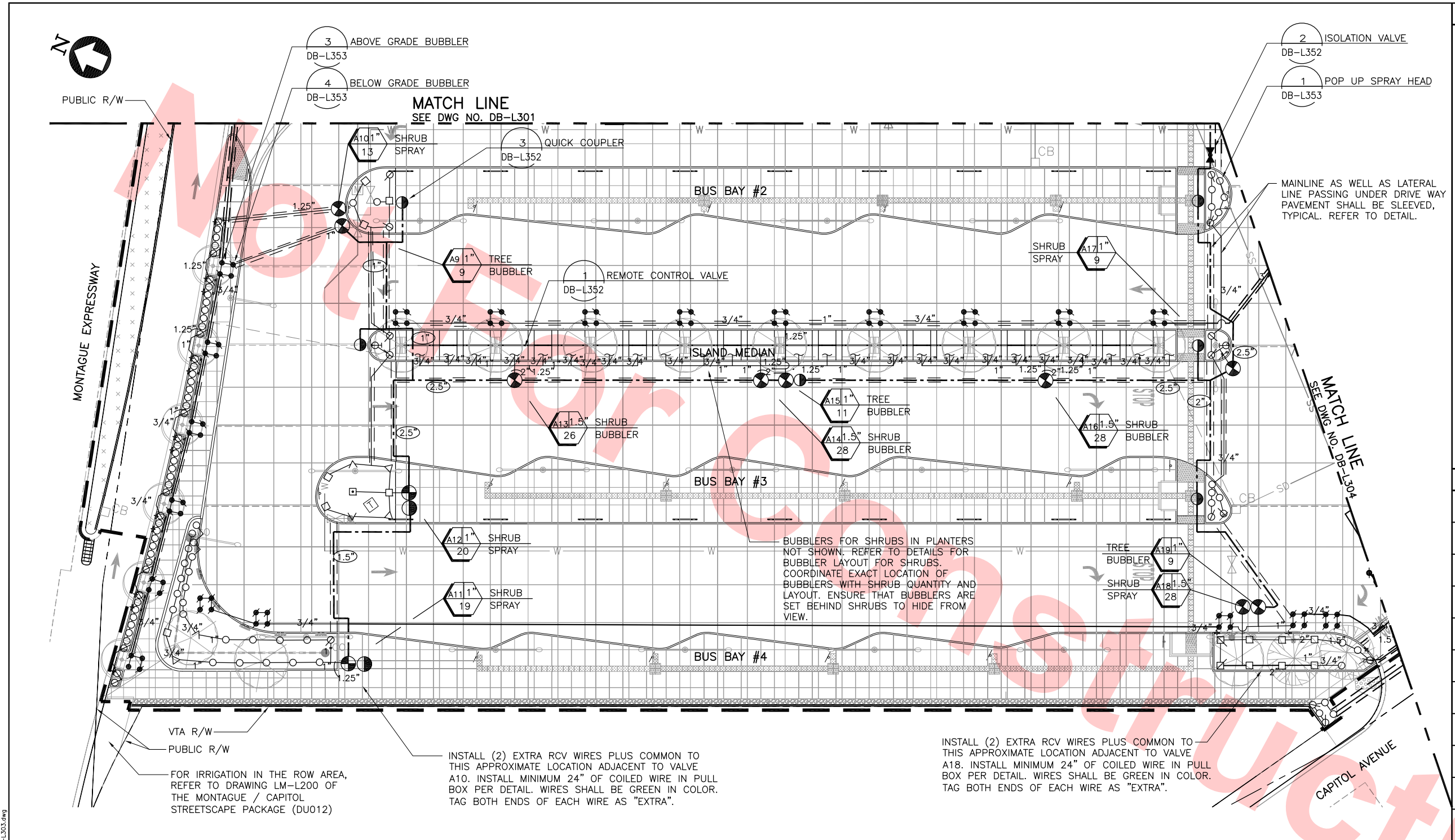
Santa Clara Valley Transportation Authority

LEGEND

ABOVE-GRADE BUBBLERS	
BELOW-GRADE BUBBLERS	
IRRIGATION REMOTE CONTROL VALVE	
QUICK COUPLER	
ISOLATION BALL VALVE	
CONTROLLER	
BACKFLOW PREVENTER	
FLOW SENSOR	
MASTER VALVE	
BASKET STRAINER	
METER – NON POTABLE	

KEYMAP





PLAN

REFERENCE NOTES

1. REFER TO DRAWING DB-L300 FOR IRRIGATION LEGEND AND NOTES.
2. REFER TO DRAWINGS DB-L351-L354 FOR IRRIGATION DETAILS.
3. REFER TO DRAWING DB-L354 FOR RECYCLED WATER NOTES.

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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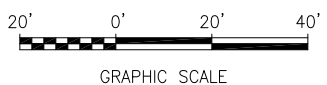
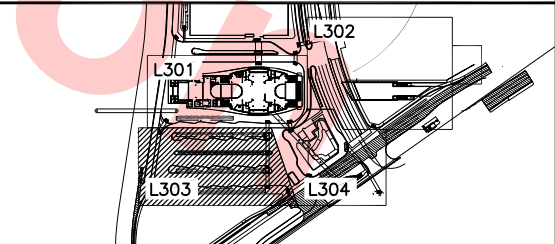
Contract No.: DB11002F

By: _____ Date: _____

LEGEND

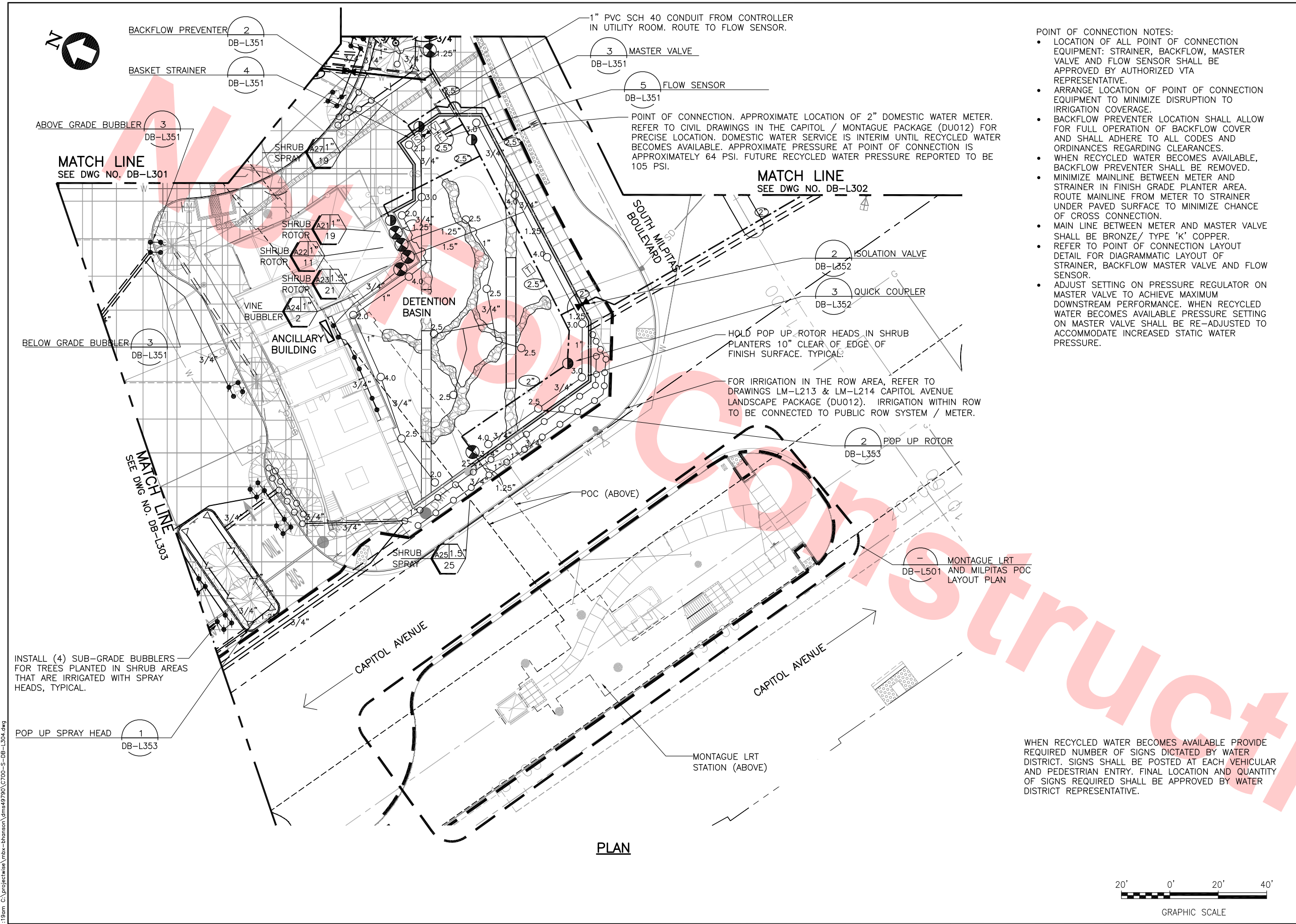
ABOVE-GRADE BUBBLERS	•
BELOW-GRADE BUBBLERS	•
IRRIGATION REMOTE CONTROL VALVE	⊙
QUICK COUPLER	⊙
ISOLATION BALL VALVE	⊙
CONTROLLER	⊙
BACKFLOW PREVENTER	⊙
FLOW SENSOR	⊙
MASTER VALVE	⊙
BASKET STRAINER	⊙
METER - NON POTABLE	⊙

KEYMAP



Jun 24, 2013 4:23pm C:\projects\wise\mbr-hanson\lms49790\700-S-DB-L303.dwg

<div>DESIGNED BY J. KEENAN DRAWN BY B. HANSON CHECKED BY W. ARATA IN CHARGE R. BARLAAN DATE 20130710</div>				<div>1436 California Circle Milpitas, California 95035 A Joint Venture</div>		<div>1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339</div>		<div>Lookwood, Andrews & Newnam, Inc. A LEQ A BALLY COMPANY</div>		<div>T-Y-LIN INTERNATIONAL</div>		<div>BART SILICON VALLEY BERRYESSA EXTENSION</div>		<div>LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION IRRIGATION PLAN</div>		<div>CADD FILENAME C700-S-DB-L303.dwg SIZE SCALE D 1"=20'-0" CONTRACT NO. C700 REV. 0 AREA CODE SHEET NO. PAGE NO. DB L303 0119</div>	
<div>0 20130710 READINESS FOR CONSTRUCTION</div>				<div>ANIL VERMA ASSOCIATES, INC.</div>		<div>APPROVED</div>		<div>APPROVED</div>		<div>APPROVED</div>		<div>APPROVED</div>		<div>APPROVED</div>			



- POINT OF CONNECTION NOTES:
- LOCATION OF ALL POINT OF CONNECTION EQUIPMENT: STRAINER, BACKFLOW, MASTER VALVE AND FLOW SENSOR SHALL BE APPROVED BY AUTHORIZED VTA REPRESENTATIVE.
 - ARRANGE LOCATION OF POINT OF CONNECTION EQUIPMENT TO MINIMIZE DISRUPTION TO IRRIGATION COVERAGE.
 - BACKFLOW PREVENTER LOCATION SHALL ALLOW FOR FULL OPERATION OF BACKFLOW COVER AND SHALL ADHERE TO ALL CODES AND ORDINANCES REGARDING CLEARANCES.
 - WHEN RECYCLED WATER BECOMES AVAILABLE, BACKFLOW PREVENTER SHALL BE REMOVED.
 - MINIMIZE MAINLINE BETWEEN METER AND STRAINER IN FINISH GRADE PLANTER AREA. ROUTE MAINLINE FROM METER TO STRAINER UNDER PAVED SURFACE TO MINIMIZE CHANCE OF CROSS CONNECTION.
 - MAIN LINE BETWEEN METER AND MASTER VALVE SHALL BE BRONZE/ TYPE 'K' COPPER.
 - REFER TO POINT OF CONNECTION LAYOUT DETAIL FOR DIAGRAMMATIC LAYOUT OF STRAINER, BACKFLOW MASTER VALVE AND FLOW SENSOR.
 - ADJUST SETTING ON PRESSURE REGULATOR ON MASTER VALVE TO ACHIEVE MAXIMUM DOWNSTREAM PERFORMANCE. WHEN RECYCLED WATER BECOMES AVAILABLE PRESSURE SETTING ON MASTER VALVE SHALL BE RE-ADJUSTED TO ACCOMMODATE INCREASED STATIC WATER PRESSURE.

IRRIGATION REFERENCE NOTES

1. REFER TO DRAWING DB-L300 FOR IRRIGATION LEGEND AND NOTES.
2. REFER TO DRAWINGS DB-L351-L354 FOR IRRIGATION DETAILS.
3. REFER TO DRAWING DB-L354 FOR RECYCLED WATER NOTES.

Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

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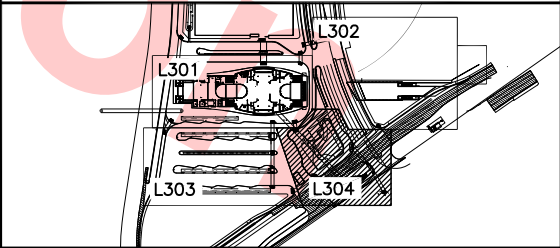
Contract No.: DB11002F

By: _____ Date: _____

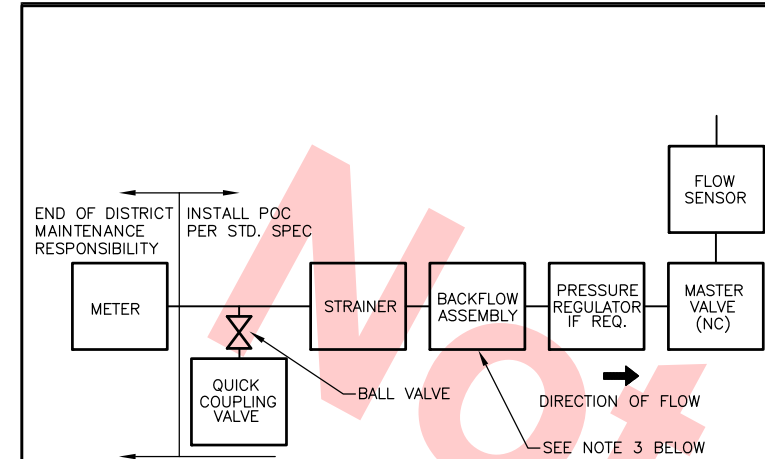
LEGEND

ABOVE-GRADE BUBBLERS	•
BELOW-GRADE BUBBLERS	•
IRRIGATION REMOTE CONTROL VALVE	⊕
QUICK COUPLER	⊕
ISOLATION BALL VALVE	⊕
CONTROLLER	⊕
BACKFLOW PREVENTER	⊕
FLOW SENSOR	⊕
MASTER VALVE	⊕
BASKET STRAINER	⊕
METER - NON POTABLE	⊕

KEYMAP



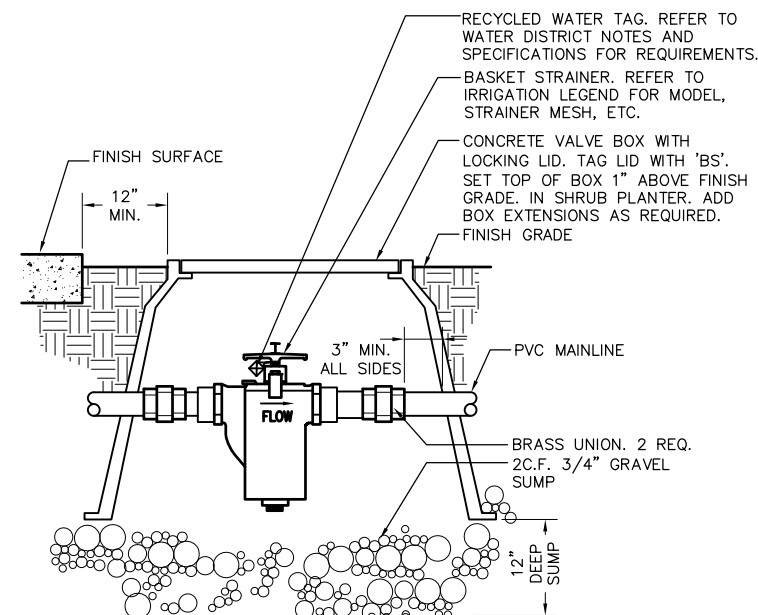
DESIGNED BY J. KEENAN DRAWN BY B. HANSON CHECKED BY W. ARATA IN CHARGE R. BARLAAN DATE 20130710	1436 California Circle Milpitas, California 95035 A Joint Venture Anil Verma Associates, Inc. 1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339 Lookwood, Andrews & Newman, Inc. A LEOPOLD & WOLF COMPANY T-Y LIN INTERNATIONAL	BART SILICON VALLEY BART SILICON VALLEY BERRYESSA EXTENSION	LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION IRRIGATION PLAN SHEET 4 OF 4	CADD FILENAME C700-S-DB-L304.dwg SIZE SCALE D 1"=20'-0" CONTRACT NO. C700 REV. 0 AREA CODE DB SHEET NO. L304 PAGE NO. 0120
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- NOTES:
1. STRAINER SHALL BE AT LEAST THE SAME NOMINAL SIZE AS THE METER SIZE.
 2. BACKFLOW PREVENTER SHALL BE THE SAME NOMINAL SIZE AS THE METER SIZE
 3. DOUBLE CHECK BACKFLOW PREVENTER REQUIRED ON USER SITES USING A FERTIGATION CHEMIGATION SYSTEM OR AS REQUIRED BY THE DISTRICT. A REDUCED PRESSURE BACKFLOW PREVENTER IS REQUIRED ON TEMPORARY.
 4. BACKFLOW PREVENTER SHALL BE LOCATED ABOVE GROUND IN A PROTECTED ENCLOSURE.
 5. BOOSTER PUMP, IF REQUIRED, NEEDS TO HAVE A LOW FLOW/PRESSURE SWITCH.
 6. MAINLINE SHALL BE BRASS THROUGH TO THE MASTER VALVE.

DETAIL
POINT OF CONNECTION LAYOUT (RECYCLED WATER)
DIAGRAMMATIC
NOT TO SCALE

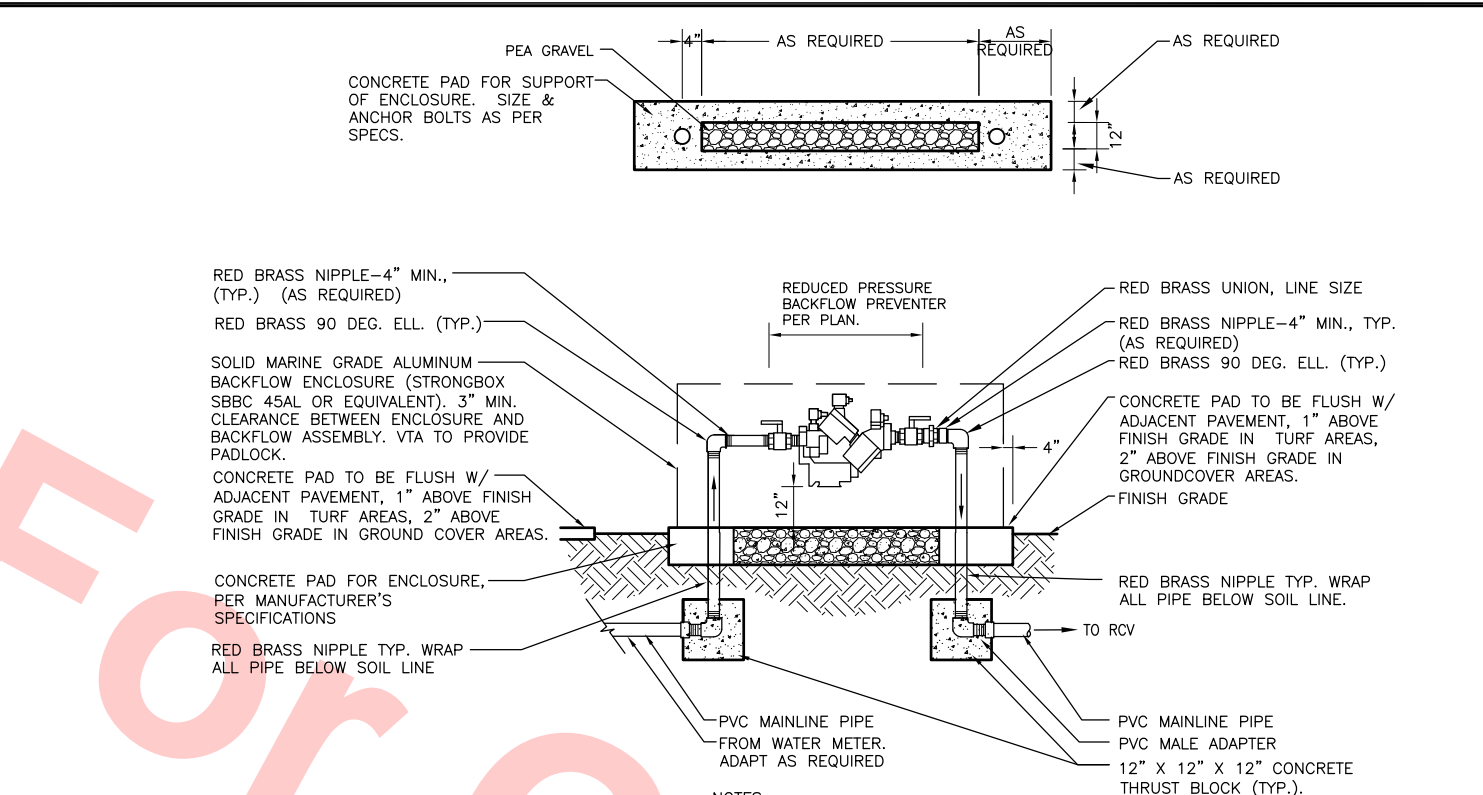
1 DB-L351 DB-L301 THRU DB-L304



- NOTES:
1. VALVE TO BE INSTALLED IN SHRUB AREA ONLY. SHRUB PLANTER AREA SHALL BE LEVEL. DO NOT INSTALL ON SLOPE GREATER THAN 5:1.
 2. USE BRASS PIPE AND FITTINGS FOR CONSTRUCTION.
 3. REFER TO WATER DISTRICT NOTES AND SPECIFICATIONS FOR INSTALLATION AND REQUIRED MARKINGS FOR USE WITH RECYCLED WATER.

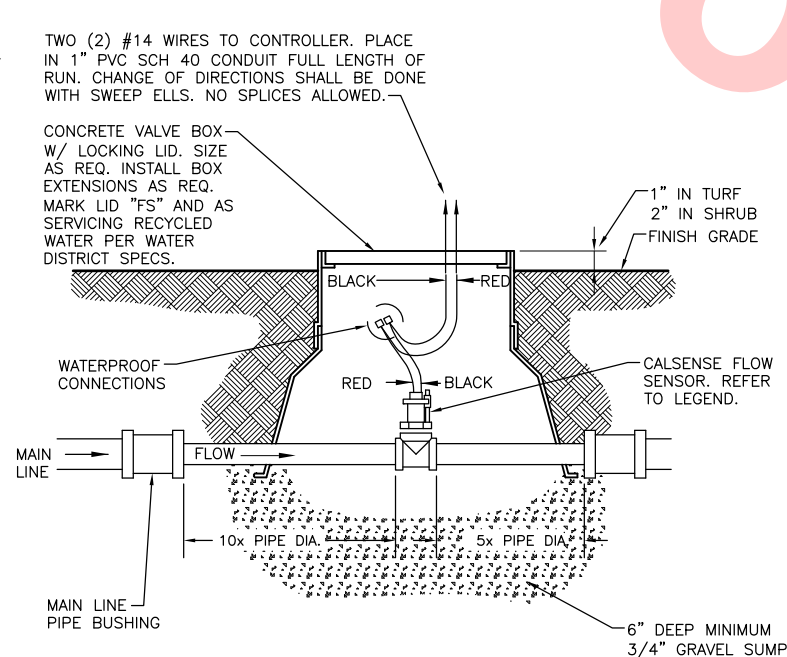
DETAIL
BASKET STRAINER - BELOW GRADE
NOT TO SCALE

4 DB-L351 DB-L301 THRU DB-L304



DETAIL
BACKFLOW PREVENTER WITH ENCLOSURE
NOT TO SCALE

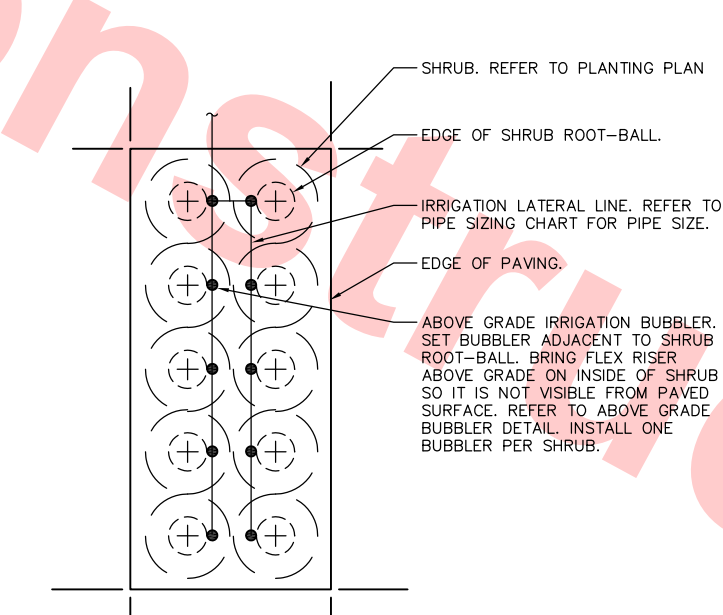
2 DB-L351 DB-L301 THRU DB-L304



PROVIDE 10X PIPE DIAMETERS UPSTREAM AND 5 X PIPE DIAMETERS DOWNSTREAM OF STRAIGHT LINE PIPE ON EITHER SIDE OF FLOW SENSOR. PROVIDE BOX EXTENSIONS AS REQUIRED.

DETAIL
FLOW SENSOR
NOT TO SCALE

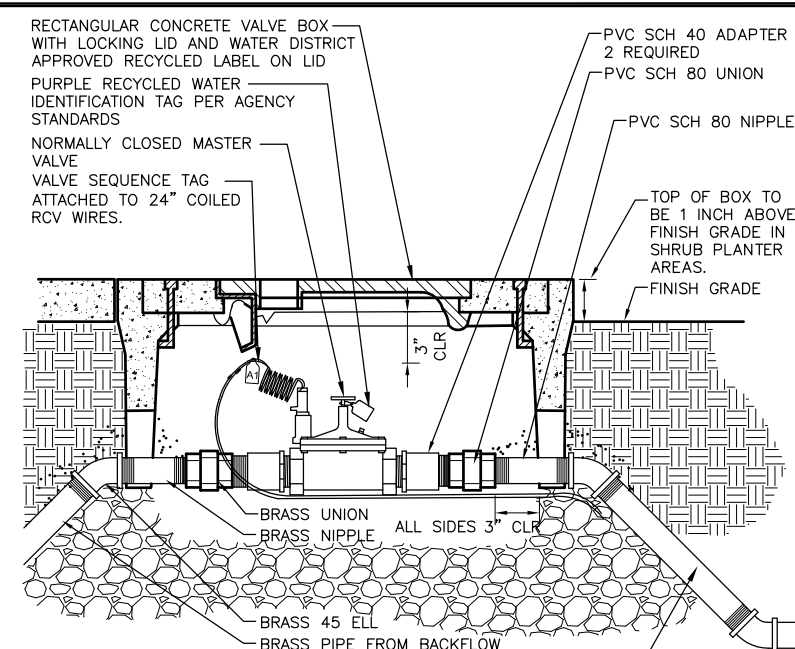
5 DB-L351 DB-L301 THRU DB-L304



- NOTES:
1. COORDINATE EXACT NUMBER OF BUBBLERS REQUIRED WITH SHRUB PLANTING PLAN.
 2. ALL ABOVE GRADE BUBBLERS SHALL HAVE WATER DISTRICT APPROVED RECYCLED WATER MARKINGS.
 3. REFER TO PLANTING PLAN FOR EXACT SIZE AND CONFIGURATION OF SHRUB PLANTER IRRIGATED BY BUBBLERS.
 4. REFER TO LATERAL LINE PIPE SIZING CHART FOR SIZING LATERALS DOWNSTREAM OF VALVE SERVICING SHRUB BUBBLERS.

DETAIL
TYPICAL SHRUB BUBBLER LAYOUT
NOT TO SCALE

6 DB-L352 DB-L301 THRU DB-L304



- NOTES:
1. VALVE SHALL HAVE A MINIMUM OF 4" CLEARANCE FROM THE BOTTOM OF THE VALVE BOX LID, AND 2" MINIMUM CLEARANCE FROM THE BOTTOM OF THE VALVE AND TOP OF GRAVEL SUMP.
 2. ALL PIPE AND FITTINGS USED WITH RECYCLED WATER SHALL BE PURPLE IN COLOR.
 3. FINE TUNE PRESSURE SETTING ON MASTER VALVE TO ACHIEVE MAXIMUM DOWNSTREAM PERFORMANCE.
 4. INSTALL 8" MINIMUM DEEP 3/4" GRAVEL BELOW BOX.

DETAIL
MASTER VALVE
NOT TO SCALE

3 DB-L351 DB-L301 THRU DB-L304

CONTRACTOR SHALL UTILIZE PIPE SIZING CHART FOR SIZING LATERAL LINE FOR BUBBLER SYSTEMS AND WHERE ROUTING OF PIPING IS REQUIRED TO BE CHANGED FROM ORIGINAL PLAN INTENT BECAUSE OF EXISTING SITE CONDITIONS.

SCHEDULE 40 PVC		CLASS 315 PVC	
FLOW GPM	PIPE SIZE	FLOW GPM	PIPE SIZE
0 - 4	1/2"	29 - 40	2"
5 - 8	3/4"	41 - 60	2.5"
9 - 12	1"	61 - 90	3"
13 - 20	1.25"		
21 - 28	1.5"		

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: _____

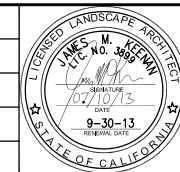
DETAIL
LATERAL LINE PIPE SIZING CHART
NOT TO SCALE

7 DB-L352 DB-L301 THRU DB-L304

Jun 24, 2013 12:02pm C:\projects\wms\mbox-shannon\mbox-shannon\c700-s-db-l351.dwg

REV	DATE	BY	SUB	APP	DESCRIPTION
0	20130710				READINESS FOR CONSTRUCTION

DESIGNED BY J. KEENAN
DRAWN BY B. HANSON
CHECKED BY W. ARATA
IN CHARGE R. BARLAAN
DATE 20130710



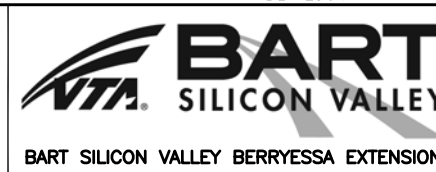
Skanska Shimmick Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

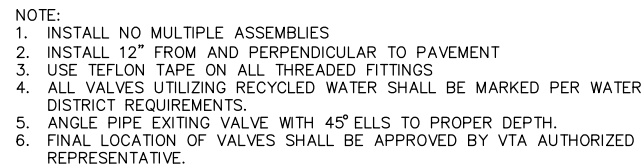
Lookwood, Andrews & Newman, Inc.
A LEO A DALY COMPANY

T-Y-LIN INTERNATIONAL

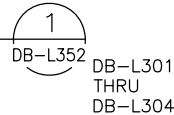


LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION IRRIGATION DETAILS			
CADD FILENAME C700-S-DB-L351.dwg	SIZE D	SCALE AS NOTED	REV. 0
CONTRACT NO. C700	SHEET NO. DB	AREA CODE L351	PAGE NO. 0121

SHEET 1 OF 5

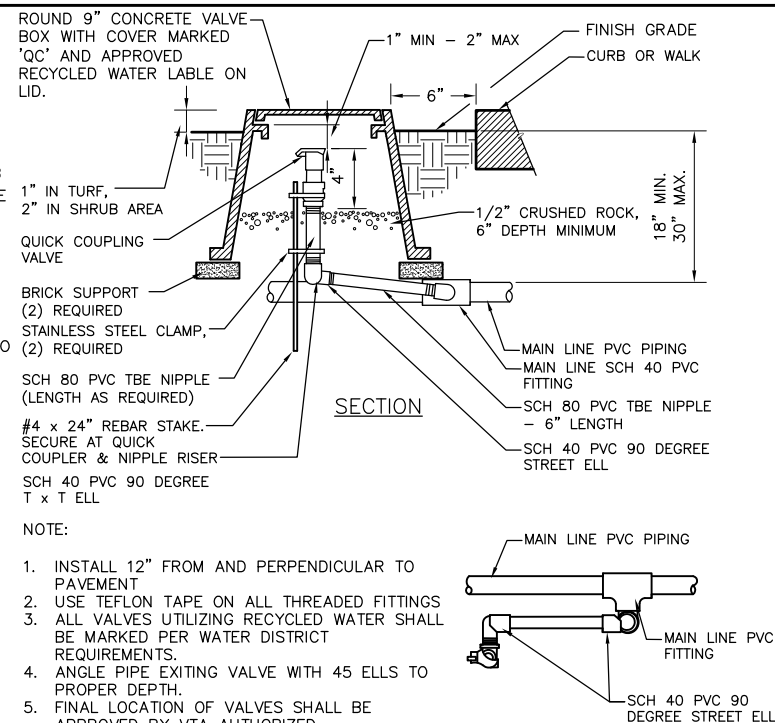
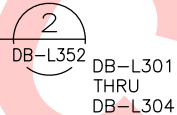


REMOTE CONTROL VALVE
NOT TO SCALE

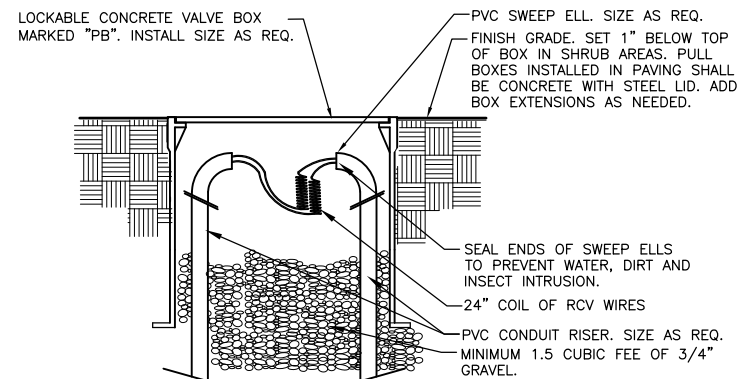
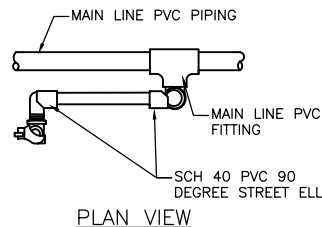


1. INSTALL 12" FROM AND PERPENDICULAR TO PAVEMENT
 2. USE TEFLON TAPE ON ALL THREADED FITTINGS
 3. ALL VALVES UTILIZING RECYCLED WATER SHALL BE MARKED PER WATER DISTRICT REQUIREMENTS.
 4. ANGLE PIPE EXITING VALVE WITH 45 ELLS TO PROPER DEPTH.
 5. FINAL LOCATION OF VALVES SHALL BE APPROVED BY VTA AUTHORIZED REPRESENTATIVE.
- 2" CRUSHED ROCK, MINIMUM 8" DEPTH SOLVENT-WELD UNION TO PIPE (TYP.)

ISOLATION VALVE
NOT TO SCALE

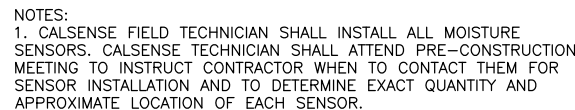


QUICK COUPLING VALVE
NOT TO SCALE

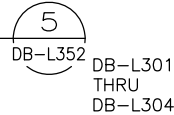


- NOTE:
1. SEAL PIPE OPENING WITH SILICON SEALANT TO PREVENT INTRUSION
OF DIRT, WATER AND INSECTS.

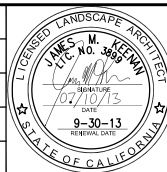
PULL BOX
NOT TO SCALE



CALSENSE MOISTURE SENSOR INSTALLATION
NOT TO SCALE



DESIGNED BY J KEENAN
DRAWN BY B HANSON
CHECKED BY W ARATA
IN CHARGE R BARLAAM
DATE 201307



Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture



T-Y-LIN INTERNATIONAL



BART SILICON VALLEY BERRYESSA EXTENSION

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

SHEET 2 OF 5

CADD FILENAME C700-S-DB-L352.dwg		
SIZE D	SCALE AS NOTED	
CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. L352	PAGE NO. 0122

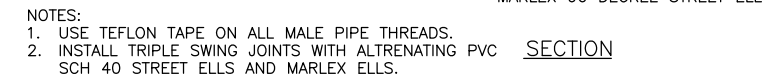
Santa Clara Valley Transportation Authority

NO EXCEPTIONS TAKEN (NET)
MAKE CORRECTIONS NOTED (MCN)
AMEND AND RESUBMIT (A/R)

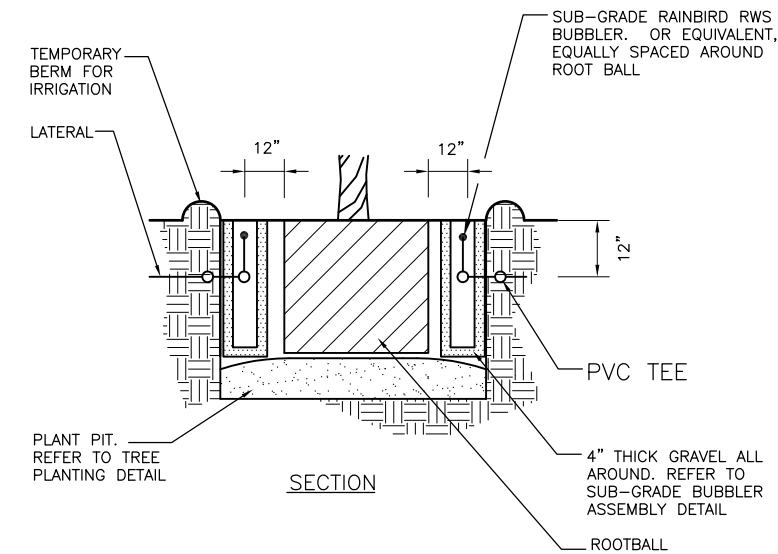
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB110021

By: _____ **Date:** _____

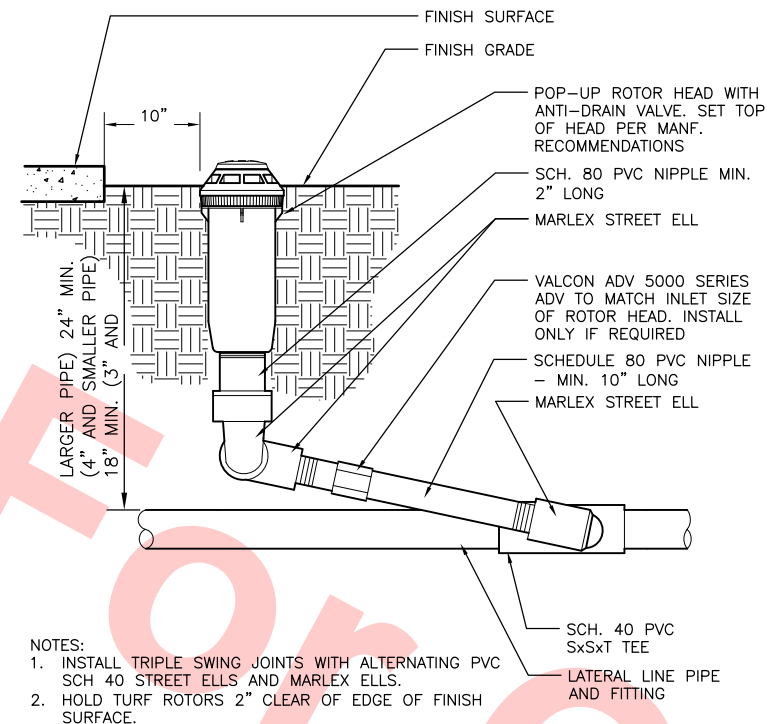


POP UP SPRAY HEAD
NOT TO SCALE



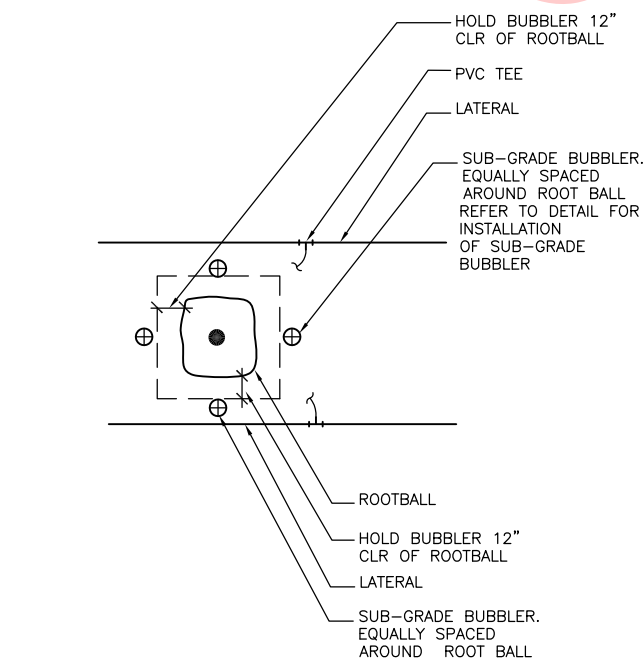
- NOTES:
1. REFER TO PLAN FOR LATERAL LINE LAYOUT.
 2. ALL TREES 48" BOX SIZE AND SMALLER SHALL HAVE (4) BUBBLERS INSTALLED. REFER TO LEGEND FOR ABOVE GRADE / SUB GRADE BUBBLER ARRANGEMENTS.

SUB-GRADE BUBBLER
NOT TO SCALE

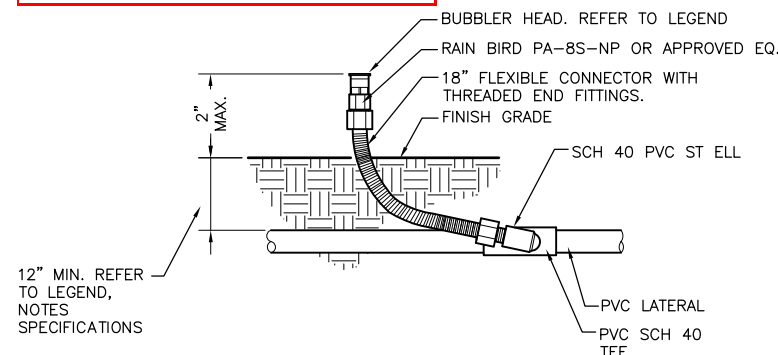


- NOTES:
1. INSTALL TRIPLE SWING JOINTS WITH ALTERNATING PVC SCH 40 STREET ELLS AND MARLEX ELLS.
2. HOLD TURF ROTORS 2" CLEAR OF EDGE OF FINISH SURFACE.

POP UP ROTOR HEAD
NOT TO SCALE

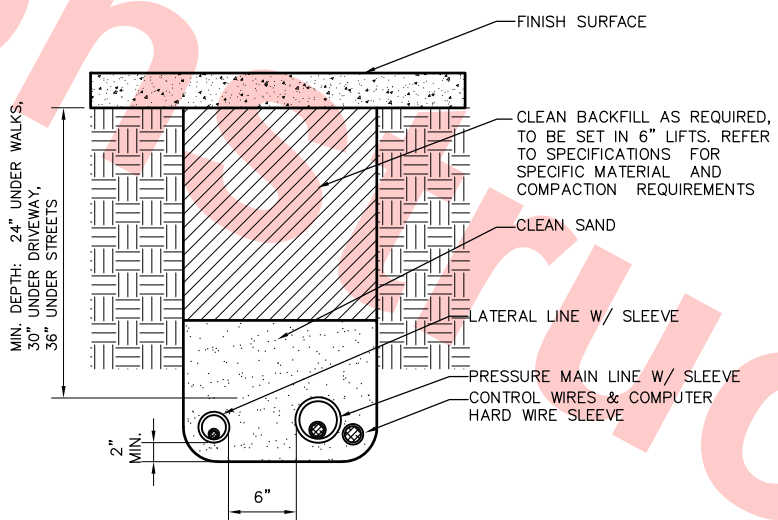


SUB-GRADE BUBBLER LAYOUT
NOT TO SCALE



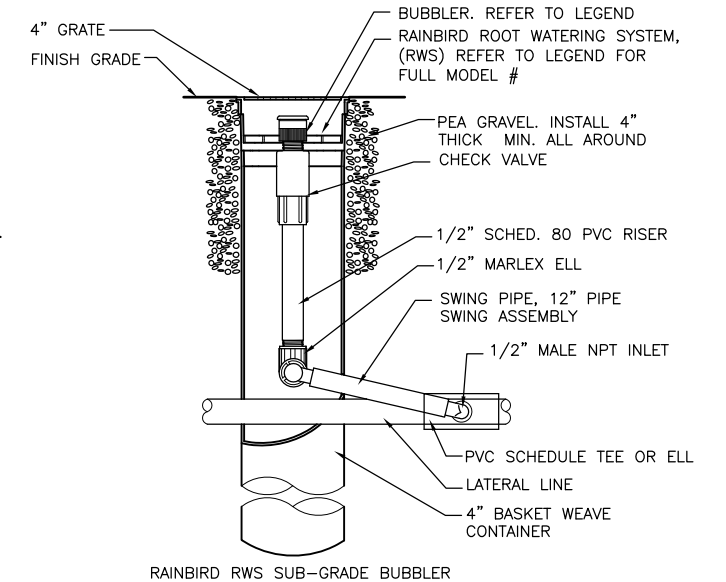
- NOTES:
1. REFER TO LEGEND FOR ARRANGEMENT OF SUB GRADE AND ABOVE GRADE BUBBLERS FOR TREES.
 2. INSTALL ANTI-DRAIN VALVE AS REQUIRED FOR BUBBLERS ON SLOPES TO PREVENT LOW HEAD DRAINAGE. BUBBLERS INSTALLED AT SHRUBS/ TREES ON SLOPE SHALL HAVE ABOVE GRADE BUBBLERS INSTALLED ON HIGH SIDE OF ROOT BALL.
 3. INSTALL BUBBLERS AT SHRUBS SO THAT THEY CANNOT BE SEEN FROM PATH OF TRAVEL.

BUBBLER - ABOVE GRADE
NOT TO SCALE



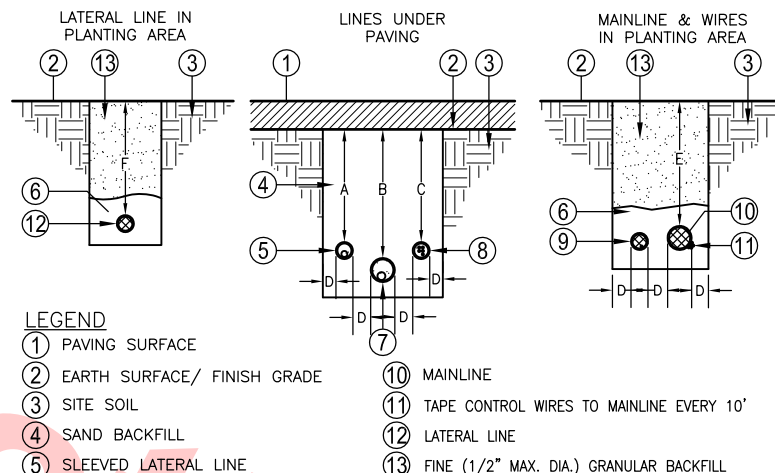
- NOTES:
1. REFER TO NOTES AND SPECIFICATIONS
2. ALL SLEEVES TO BE PVC. SCH. 80 AND TWICE THE DIA. OF THE WORKING PIPE
3. ALL SLEEVES TO RUN A MIN. OF 12" BEYOND HARDSCAPE EDGES
4. CLEAN BACKFILL MAY BE SUBSTITUTED FOR SAND UNDER WALKS AND DRIVES

SLEEVING
NOT TO SCALE



- NOTES:
1. REFER TO LEGEND FOR ARRANGEMENT OF SUB-GRADE AND ABOVE GRADE BUBBLERS FOR TREES.
 2. INSTALL ANTI-DRAIN VALVE AS REQUIRED FOR BUBBLERS ON SLOPES TO PREVENT LOW HEAD DRAINAGE
 3. FILL RWS TUBE WITH PEA GRAVEL

BUBBLER - BELOW GRADE
NOT TO SCALE




LINE SIZE	DEPTHS					
	A	B	C	D	E	F
≤ 2" I.D.	—	24"	24"	4"	18"	—
≤ 3" I.D.	—	—	—	—	—	12"
≤ 3" I.D.	24"	30"	30"	4"	24"	—
≥ 3" I.D.	—	—	—	—	—	18"
≥ 3" I.D.	30"	—	—	4"	—	—
≥ 4" I.D.	—	36"	36"	4"	30"	—


- NOTES:
1. TRENCHES SHALL BE WIDE ENOUGH TO ALLOW 4" MINIMUM HORIZONTAL CLEARANCE BETWEEN PARALLEL PIPES.
 2. SNAKE PLASTIC PIPES FROM SIDE TO SIDE WITHIN TRENCH TO ALLOW FOR MOVEMENT.
 3. TIE A 20" LOOP IN ALL WIRING AT CHANGES IN DIRECTION. UNTIE PRIOR TO BACKFILLING TRENCHES.

TRENCH DEPTH - LINE SPACING
NOT TO SCALE

						DESIGNED BY J KEENAN
						DRAWN BY B HANSON
						CHECKED BY W ARATA
						IN CHARGE R BARLAAN
0	20130710				READINESS FOR CONSTRUCTION	DATE 20130710
REV	DATE	BY	SUB	APP	DESCRIPTION	

Skanska
Shimmick
Herzog

 **Anil Verma Associates, Inc.**
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 535-2537 Fax: (510) 535-2339


SUBMITTED 

1436 California Circle
Milpitas, California 95035
A Joint Venture

LEN **Lockwood, Andrews & Newnam, Inc.**
A LEAD BOLD COMPANY

T-Y-LIN INTERNATIONAL

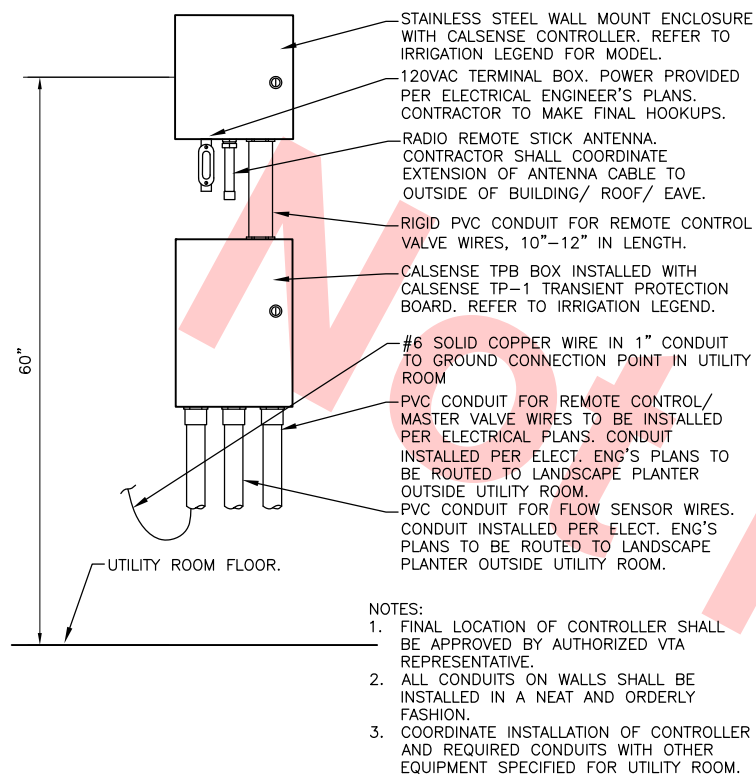
APPROVED *R. A. Lockwood*



BART
SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION IRRIGATION DETAILS SHEET 3 OF 5		CADD FILENAME C700-S-DB-L353.dwg
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CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. L353	PAGE NO. 0123

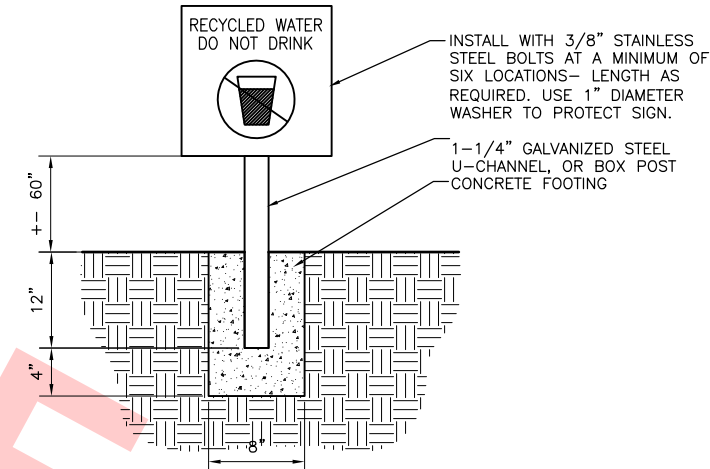


DETAIL

CALSENSE WALL MOUNT CONTROLLER
NOT TO SCALE

1

DB-L354
DB-L301
THRU
DB-L304



NOTES:

1. REQUIRED SIGNAGE FOR RECYCLED WATER USE AREAS: ALL USE AREAS SHALL BE POSTED WITH SIGNS (MINIMUM 6 PER METER) THAT ARE VISIBLE TO THE PUBLIC IN A SIZE NO LESS THAN 4 INCHES HIGH BY 8 INCHES WIDE.
2. INSTALL SIGNS AT ALL PEDESTRIAN ENTRIES TO THE PROJECT.
3. FINAL QUANTITY AND LOCATION OF RECYCLED WATER SIGNS SHALL BE DETERMINED/ APPROVED BY WATER DISTRICT REPRESENTATIVE.

DETAIL

RECYCLED WATER SIGN
NOT TO SCALE

(2)

DB-L354
DB-L301
THRU
DB-L304

- SOUTH BAY WATER RECYCLING (SBWR) STANDARD NOTES FOR
ON-SITE RECYCLED WATER IRRIGATION SYSTEMS:**

1. PRIOR TO RECEIVING RECYCLED WATER, THE SITE MUST BE PERMITTED BY SOUTH BAY WATER RECYCLING (SBWR), A PERMIT WILL BE GRANTED AFTER:
 - INSPECTION BY CITY OF MILPITAS PUBLIC WORKS INSPECTION HAS BEEN COMPLETED SHOWING CONFORMANCE WITH SBWR RULES AND REGULATIONS;
 - A FINAL ON-SITE INSPECTION HAS BEEN CONDUCTED TO CONFIRM THAT ALL REQUIREMENTS HAVE BEEN MET;
 - SITE HAS PASSED REQUIRED CROSS-CONNECTION TEST PERFORMED BY A CERTIFIED AWWA CROSS-CONNECTION SPECIALIST;
 - THE OWNER'S OR TENANT'S REPRESENTATIVE MUST ALSO COMPLETE A SITE SUPERVISOR TRAINING CLASS OFFERED BY SBWR IN ORDER TO RECEIVE A PERMANENT PERMIT. IN THE INTERIM BETWEEN CONNECTION AND TRAINING, THE TENANT OR OWNER WILL RECEIVE A TEMPORARY RECYCLED WATER PERMIT.CONTACT SBWR AT (408) 277-3671 FOR FURTHER INFORMATION.
2. ALL WORK SHALL CONFORM TO EXISTING REGULATIONS INCLUDING BUT NOT LIMITED TO:
 - SOUTH BAY WATER RECYCLING (SBWR) RULES AND REGULATIONS
 - DEPARTMENT OF HEALTH SERVICES REGULATIONS
3. CHANGES MADE TO THE APPROVED IRRIGATION PLANS SHALL BE SUBMITTED TO THE CITY OF MILPITAS FOR REVIEW AND APPROVAL BY SBWR AT LEAST 2 WEEKS PRIOR TO START OF CONSTRUCTION.
4. AT LEAST TWO DAYS PRIOR TO START OF CONSTRUCTION, CONTRACTOR AND CITY OF MILPITAS PUBLIC WORKS INSPECTOR SHALL HOLD A PRE-CONSTRUCTION MEETING. TO SCHEDULE MEETING, CONTACT PUBLIC WORKS INSPECTION AT (408) 586-2884.
5. NOTIFY PUBLIC WORKS INSPECTOR A MINIMUM OF AT LEAST 48 HRS BEFORE WORK BEGINS. PUBLIC WORKS INSPECTOR MUST INSPECT AND/OR VERIFY:
 - PRESENCE OF PROPER BACKFLOW PREVENTION AT ALL POTABLE POINTS OF CONNECTION;
 - NEW UNDERGROUND PIPING (LABELING, CLEARANCES, BURIAL DEPTH, SLEEVING);
 - INSTALLATION OF SIGNS, TAGS, AND CONTROLLER DECALS;
 - REQUIRED TEMPORARY CONNECTION TO POTABLE WATER SERVICE; IN MOST CASES, THE SITE'S IRRIGATION SYSTEM MUST BE CONNECTED TO A TEMPORARY SOURCE OF POTABLE WATER IN ORDER TO CONDUCT REQUIRED CROSS-CONNECTION TEST;
 - SITE PASSED REQUIRED CROSS-CONNECTION TEST PERFORMED BY A CERTIFIED AWWA CROSS-CONNECTION SPECIALIST;
 - NEW METER INSTALLATION - PRIOR TO RECEIVING RECYCLED WATER, PUBLIC WORKS INSPECTOR MUST INSPECT THE DISCONNECTION OF THE SITE'S IRRIGATION SYSTEM FROM THE TEMPORARY POTABLE WATER SUPPLY, AND THEN INSPECT THE CONNECTION OF THE SYSTEM TO THE RECYCLED WATER METER.
6. NO CROSS-CONNECTIONS BETWEEN THE POTABLE AND RECYCLED WATER SYSTEMS ARE PERMITTED.
7. ALL ON-SITE BURIED RECYCLED WATER PIPING SHALL BE IDENTIFIED BY ONE OF THE FOLLOWING METHODS:
 - USING PURPLE-COLORED PVC PIPE WITH CONTINUOUS WORDING: "CAUTION - RECYCLED WATER" PRINTED ON OPPOSITE SIDES OF THE PIPE; PIPE SHALL BE LAID WITH WORDING FACING UPWARDS;
 - WARNING TAPE WITH A MINIMUM WIDTH OF 3 INCHES READING: "CAUTION - RECYCLED WATER" (IN BLACK OR WHITE LETTERING ON PURPLE BACKGROUND) SHALL RUN CONTINUOUSLY ON TOP OF PIPING AND SHALL BE ATTACHED TO PIPING WITH PLASTIC TAPE Banded AROUND THE WARNING TAPE AND THE PIPE EVERY 5 FEET ON CENTER;
 - BLUE-COLORED PVC PIPE SHALL NOT BE USED UNLESS THE BLUE COLOR IS COMPLETELY OBSCURED BY ENCASEMENT OF THE PIPE WITH PURPLE POLYETHYLENE WRAP OR OTHER METHODS APPROVED BY SBWR.
8. PVC PIPE: CONSTANT-PRESSURE MAINLINE PIPING 1 1/2 INCHES AND SMALLER SHALL BE SCHEDULE 40; CONSTANT-PRESSURE MAINLINE PIPING 2 INCHES AND LARGER SHALL BE CLASS 315; INTERMITTENT-PRESSURE LATERAL PIPING SHALL BE CLASS 200 OR SCHEDULE 40. COPPER PIPE SHALL BE TYPE "K".
9. ALL ON-SITE RECYCLED WATER PIPING SHALL BE BURIED TO A MINIMUM DEPTH FROM FINISHED GRADE TO TOP OF PIPE (MINIMUM COVER) OF:
 - PRESSURIZED LINES 3 INCHES AND LARGER 24 INCHES
 - PRESSURIZED LINES 2 1/2 INCHES AND SMALLER 18 INCHES
 - INTERMITTENT-PRESSURE LINES 12 INCHES
10. ALL RECYCLED WATER PIPING OTHER THAN PVC PIPING WITH SOLVENT WELDED JOINTS SHALL BE PROTECTED AGAINST MOVEMENT WITH THRUST BLOCKS OR RESTRAINED JOINTS OR OTHER APPROVED METHOD PER SBWR DETAILS.
11. MAINTAIN A 10-FOOT HORIZONTAL SEPARATION BETWEEN BURIED PRESSURIZED RECYCLED WATER IRRIGATION PIPING AND BURIED POTABLE WATER PIPING UNLESS OTHERWISE NOTED. AT PIPE CROSSINGS, BURIED PRESSURIZED RECYCLED WATER IRRIGATION PIPING MUST BE 12 INCHES BELOW POTABLE WATER LINES. PRESSURIZED RECYCLED WATER PIPELINES ARE ALLOWED OVER POTABLE WATER PIPELINES WITH A MINIMUM OF 12 INCHES VERTICAL SEPARATION IF A FULL STANDARD PIPE LENGTH IS CENTERED OVER THE CROSSING, OR THE RECYCLED WATER PIPELINE IS INSTALLED IN A PIPE SLEEVE WHICH EXTENDS A MINIMUM OF 10 FEET ON EITHER SIDE OF THE POTABLE WATER PIPING. INTERMITTENTLY PRESSURIZED IRRIGATION LATERALS MAY BE LOCATED A MINIMUM OF 12 INCHES ABOVE POTABLE WATER PIPELINES WITHOUT SLEEVING.
12. ALL RECYCLED WATER SYSTEM REMOTE CONTROL VALVES, ISOLATION VALVES, QUICK COUPLING VALVES, STRAINERS, AND PRESSURE-REGULATING VALVES SHALL BE INSTALLED BELOW GRADE IN VALVE BOXES. GREEN, BLACK, OR PURPLE-COLORED BOXES AND LIDS ARE ACCEPTABLE. VALVE BOXES SHALL HAVE A WARNING LABEL OR NAMEPLATE PERMANENTLY MOLDED INTO OR ATTACHED ONTO THE LID WITH RIVETS, SCREWS, OR BOLTS. WARNING LABELS SHALL BE PER SBWR STANDARD DETAILS.
13. QUICK-COUPLING VALVES SHALL BE PER SBWR STANDARD DETAILS.
14. NO HOSE BIBS ARE ALLOWED ON THE RECYCLED WATER IRRIGATION SYSTEM. ANY EXTERIOR HOSE BIBS SERVED WITH POTABLE WATER MUST BE LABELED PER SBWR STANDARD DETAILS.
15. ALL RECYCLED WATER METERS, DEVICES, AND VALVES - E.G. ISOLATION VALVES, IRRIGATION CONTROLLERS, REMOTE CONTROL VALVES, PRESSURE REGULATING VALVES, QUICK COUPLING VALVES, ETC. - SHALL BE TAGGED PER SBWR STANDARD DETAILS.
16. LABEL ALL POTABLE WATER METERS AND ABOVE GROUND POTABLE WATER PIPES/ DEVICES (BACKFLOW PREVENTERS, HOSE BIBS, ETC.) WITH TAGS OR LABELS READING: "POTABLE WATER" IN BLACK LETTERS ON BLUE BACKGROUND, PER SBWR DETAILS.
17. ALL RECYCLED WATER IRRIGATION SYSTEMS SHALL HAVE THE FOLLOWING:
 - A WYE STRAINER (WITH A 20-MESH OR FINER SCREEN) INSTALLED AS CLOSE AS PRACTICABLE TO THE RECYCLED WATER METER BOX.
 - A PRESSURE -REGULATING VALVE INSTALLED IMMEDIATELY DOWNSTREAM OF THE STRAINER (UNLESS OTHERWISE DIRECTED BY SBWR).
 - THESE COMPONENTS SHALL BE INSTALLED WITH ISOLATION VALVES TO FACILITATE MAINTENANCE.

18. RECYCLED WATER ADVISORY SIGNS SHALL BE PER SBWR STANDARD DETAILS AND SHALL BE POSTED PER LOCATIONS SHOWN ON IRRIGATION PLANS.
19. INSTALLATION OF DIRECT INJECTION SYSTEMS ON THE RECYCLED WATER IRRIGATION SYSTEM IS NOT PERMITTED.
20. NO DRINKING FOUNTAINS OR EATING AREAS ARE ALLOWED IN THE APPROVED RECYCLED WATER USE AREA UNLESS ADEQUATELY PROTECTED FROM OVERSPRAY.
21. ALL RECYCLED WATER METERS WILL BE SET BY THE LOCAL WATER UTILITY AFTER:
 - THE SITE'S OWNER, DEVELOPER, OR CONTRACTOR HAS APPLIED FOR RECYCLED WATER SERVICE WITH THE LOCAL WATER UTILITY, THE WATER SERVICE AGREEMENT HAS BEEN APPROVED, AND ALL APPLICABLE FEES HAVE BEEN PAID.
 - THE WATER UTILITY HAS RECEIVED AUTHORIZATION FROM SBWR TO SET RECYCLED WATER METERS.
22. NO OVERSPRAY OR RUNOFF OF RECYCLED WATER IS ALLOWED ON ANY NON-- APPROVED USE AREA. PONDING OF RECYCLED WATER DUE TO IRRIGATION IS NOT ALLOWED IN ANY AREA. UPON RECEIVING RECYCLED WATER, THE ON-SITE RECYCLED WATER IRRIGATION SYSTEM MUST PASS A COVERAGE TEST PERFORMED BY PUBLIC WORKS INSPECTOR.
23. CONTRACTOR SHALL SUBMIT AS-BUILT IRRIGATION PLANS TO PUBLIC WORKS INSPECTOR WITHIN 90 DAYS OF SITE RECEIVING RECYCLED WATER.

**CITY OF MILPITAS GENERAL NOTES FOR RECYCLED WATER
IRRIGATION SYSTEM:**

1. PURPLE PIPE MUST NOT BE STORED WHERE EXPOSED TO SUNLIGHT.
2. RECYCLED WATER METER MUST NOT BE SET UNTIL THE FOLLOWING ITEMS ARE COMPLETED SATISFACTORILY:
 - A. CROSS CONNECTION TEST
 - B. IDENTIFICATION OF RECYCLED WATER SYSTEM.
 - C. INSPECTION CHECKLIST COMPLETED BY THE INSPECTORS.
3. THE IRRIGATION SYSTEM DESIGN PRESSURE IS 60 PSI. THE ULTIMATE PRESSURE OF THE RECYCLED WATER SYSTEM IS ANTICIPATED TO BE 60 PSI MAXIMUM AT THE METER. UNTIL BUILT OUT (ULTIMATE), THE INTERIM PRESSURE IS HIGHER AND A PRESSURE REGULATOR WITH WYE STRAINER IS REQUIRED.
4. IRRIGATION SYSTEM MUST BE INSTALLED TO PREVENT RUNOFF AND PONDING. OVERSPRAY OF RECYCLED WATER TO PUBLIC AREAS IS NOT PERMITTED (SIDEWALK, PARKING AREAS, EATING AREAS, ETC.).
5. ADVISORY SIGNS MUST BE INSTALLED AS SHOWN ON THE PLANS. IF THE IRRIGATION SYSTEM IS BEING INSTALLED IN PREPARATION FOR FUTURE RECYCLED WATER SYSTEM, THEN ALL REQUIREMENTS MUST BE COMPLIED EXCEPT THE ADVISORY SIGNS ARE NOT INSTALLED AND THE RECYCLED WATER METER IS NOT INSTALLED. WHEN THE RECYCLED WATER IS READY TO BE DELIVERED (METER), THE ADVISORY SIGNS MUST BE INSTALLED AND THE CHECKLIST ITEMS MUST BE VERIFIED FOR COMPLIANCE.
6. NOTIFY THE PUBLIC WORKS INSPECTION AT (408) 586-2884 AT LEAST 48 HOURS PRIOR TO:
 - A. BACKFILL OF PIPE TRENCHES
 - B. PRESSURE TEST
 - C. COVERAGE TEST
7. RECORD DRAWINGS (4 SETS FOR ON-SITE IRRIGATION SYSTEM, MYLAR FOR OFF-SITE IRRIGATION SYSTEM- SEE PUBLIC WORKS RECORD DRAWING PROCESS) OF THE COMPLETED RECYCLED IRRIGATION SYSTEM MUST BE SUBMITTED TO ENGINEERING LAND DEVELOPMENT SECTION.
8. ENGINEERING SECTION WILL NOT RELEASE FOR OCCUPANCY (FINAL INSPECTION IF NONRESIDENTIAL) BY BUILDING DEPARTMENT UNTIL ALL REQUIREMENTS ARE COMPLIED. IF OFF-SITE, ENGINEERING SECTION WILL NOT ACCEPT THE PUBLIC IMPROVEMENTS UNTIL ALL REQUIREMENTS ARE COMPLIED.
9. CERTIFICATE OF SUBSTANTIAL COMPLETION (PART OF WATER EFFICIENT ORDINANCE REQUIREMENT) MUST BE SUBMITTED TO THE CITY BUILDING INSPECTOR PRIOR TO FINAL OCCUPANCY.

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:** _____

						DESIGNED BY J KEENAN
						DRAWN BY B HANSON
						CHECKED BY W ARATA
						IN CHARGE R BARLAAN
0	20130710				READINESS FOR CONSTRUCTION	DATE 20130710
REV	DATE	BY	SUB	APP	DESCRIPTION	

	<h1 style="margin: 0;">Skanska Shimmick Herzog</h1>	<p>1436 California Circle Milpitas, California 95035</p> <p>A Joint Venture</p>
 <p>Anil Verma Associates, Inc. 1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 535-2537 Fax: (510) 535-2339</p>	 <p>Lockwood, Andrews & Newnam, Inc. A LEO A DALY COMPANY</p>	<p>T-Y-LIN INTERNATIONAL</p>
<p>SUBMITTED</p>	<p>APPROVED</p>	<p>APPROVED</p>



BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS

DESIGN UNIT 023

MILPITAS STATION

IRRIGATION DETAILS

SHEET 4 OF 5

CADD FILENAME
C700-S-DB-L354.dwg

SIZE	SCALE	AS NOTED	
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CONTRACT NO.	REV.
C700	0

AREA CODE	SHEET NO.	PAGE NO.
DB	L354	0124

LANDSCAPE IRRIGATION METER #4

LANDSCAPE PACKET #

CITY OF MILPITAS

WATER CONSERVATION CONCEPT STATEMENT

Project Name: Milpitas Station

Project Address/Location:
Milpitas, California

Water Meter Serial Number (Provide existing or later with certificate of completion):

Landscape Architect/Irrigation Designer - Separate Water Conservation Concept Statements shall be submitted for each Irrigation meter.

Included in this project submittal package are (Check (4) to indicate completion):

☐ total area

28,341

square feet

☐ 1.

Maximum Applied Water Allowance (MAWA):

New/Rehabilitated Landscapes

851,300

Gallons/year

Existing Landscapes, if applicable

0

Gallons/year

TOTAL MAWA

851,300

Gallons/year

☐ 2.

Estimated Applied Water Use (EAWU):

New/Rehabilitated Landscapes

561,940

Gallons/year

Existing Landscapes, if applicable

0

Gallons/year

TOTAL EAWU

561,940

Gallons/year

☐ 2a.

Estimated Amount of Water Expected from Effective Precipitation :

0

Gallons/year

☐ 3.

Estimated Total Water Use (ETWU):

New/Rehabilitated Landscapes

561,940

Gallons/year

Existing Landscapes, if applicable

0

Gallons/year

TOTAL ETWU

561,940

Gallons/year

NOTES:

If the design assumes that a part of the Estimated Total Water Use will be provided by precipitation, the Effective Precipitation Disclosure Statement In VIII-5-5.00 shall be completed and submitted. The Estimated Amount of Water Expected from Effective Precipitation shall not exceed 25 percent of the local annual mean precipitation (average rainfall).

To determine gallons/year for existing landscaping, contact the Public Works Department, Land Development Engineering Section. This value shall be the same in Items 1, 2, and 3 above.

☐ 4.

Landscape Design Plan

Sheet

DB L401, L402, L403, L404

☐ 5.

Irrigation Design Plan

Sheet

DB L301, L302, L303, L304

☐ 6.

Irrigation Schedule

Sheet

DB L355

☐ 7.

Maintenance Schedule

Sheet

DB L355

☐ 8.

Landscape Irrigation Audit Schedule

Sheet

DB L355

☐ 9.

Grading Design Plan

Sheet

DB C200, C201, C202, C203

☐ 10.

Soil Specification

Sheet

Description of Project: Briefly describe the planning and design actions that are intended to achieve conservation and efficiency in water use.

Low water requiring/ maintenance trees along with moderate water requiring shrubs are used and are irrigated using bubblers and low precdp spray heads. Trees are irrigated via above and below grade bubblers. Master valve and flow meter work in conjunction with smart controller to minimize water application to what is needed, reducing water consumption, water run-off and soil erosion. Irrigation heads are held min 10" off edge of finish surface to reduce application of water to areas with no landscape. All landscape areas are to receive a layer of shredded bark mulch to reduce moisture loss in soil.

Prepared by: Warren Arata

Date: 11.28.12

South Bay Water Recycling Recommendation for Approval

Date

Department of Health Services Approval

Date

CITY OF MILPITAS – WATER EFFICIENT LANDSCAPES
CERTIFICATE OF SUBSTANTIAL COMPLETION

Project Name: Montague Expressway / Capitol Avenue

Project Address/Location:
Milpitas, California

** Water Meter Register # (Enter When Meter Is Set):

Bldg. Permit # (If applicable):

Preliminary Project Documentation Submitted: (Check (4) to indicate completion):

☐ total area

28,614

square feet

☐ 1.

Total Maximum Applied Water Allowance (MAWA):

642,922

Gallons/year

☐ 2.

Total Estimated Applied Water Use (EAWU):

537,038

Gallons/year

☐ 2a.

Estimated Amount of Water Expected from Effective Precipitation:

0

Gallons/year

☐ 3.

Total Estimated Total Water Use (ETWU):

537,038

Gallons/year

NOTE:

If the design assumes that a part of the Estimated Total Water Use will be provided by precipitation, the Effective Precipitation Disclosure Statement In VIII-5-5 shall be completed and submitted. The Estimated Amount of Water Expected from Effective Precipitation shall not exceed 25 percent of the local annual mean precipitation (average rainfall).

☐ 4.

Landscape Design Plan

☐ 8.

Landscape Irrigation Audit Schedule

☐ 5.

Irrigation Design Plan

☐ 9.

Grading Design Plan

☐ 6.

Irrigation Schedule

☐ 10.

Soil Analysis

☐ 7.

Maintenance Schedule

Post-Installation Inspection: (Check (4) to indicate completion):

☐ A.

Plants Installed as specified

☐ B.

Irrigation system installed as designed

☐ dual distribution system for recycled water

☐ minimal runoff or overspray

☐ C.

Landscape Irrigation Audit performed

Project submittal package and a copy of this certification has been provided to property owner/manager and local water agency.

Comments:

I/we certify that work has been installed in accordance with the contract documents.

Contractor

Signature

Date

State License Number

I/we certify that based upon periodic site observations, the work has been substantially completed in accordance with the Water Efficient Landscape Ordinance and that the landscape planning and irrigation conforms with the approved plans and specifications.

Landscape Architect, Irrigation Designer or Licensed or Certified Professional in Horticulture or in a field related to Horticulture.

Signature

Date

State License Number

I/we certify that I/we have received all of the contract documents and that it is our responsibility to see that the project is maintained in accordance with the contract documents.

Owner

Signature

Date





























Must sign in order for City to accept certificate.

** Must fill: Inspector & contractor to verify register #, this must be done before occupancy

IRRIGATION SCHEDULE, CONTROLLER 'A', MILPITAS STATION

A	PRECIP	OPERATING	RUN	# OF	WATER USE, GALLONS												GALS/	CU FT/	
STA	RATE	PRESSURE	TIME	CYC	CYC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	YEAR
A-1	-	30	8	1	360	518	806	1,036	1,224	1,915	2,304	2,304	2,304	1,641	907	604	360	13,982	1,869
A-2	-	30	15	1	450	648	1,008	1,296	1,530	2,394	2,880	2,880	2,880	2,052	1,134	756	450	17,478	2,336
A-3	1.52	30	8	1	240	345	537	691	816	1,276	1,536	1,536	1,536	1,094	604	403	240	9,321	1,246
A-4	-	30	8	1	400	576	896	1,152	1,360	2,128	2,560	2,560	2,560	1,824	1,008	672	400	15,536	2,077
A-5	-	30	8	1	500	720	1,120	1,440	1,700	2,660	3,200	3,200	3,200	2,280	1,260	840	500	19,420	2,596
A-6	-	30	8	1	360	518	806	1,036	1,224	1,915	2,304	2,304	2,304	1,641	907	604	360	13,982	1,869
A-7	-	30	15	1	262	378	588	756	892	1,396	1,680	1,680							

PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SIZE @ 5 YR. GROWTH (HT. X SPREAD)	SIZE @ MATURITY (HT. X SPREAD)	QTY.	WATER USAGE	SPECIFICATIONS
TREES:								
	ACER RUBRUM 'RED SUNSET'	SUNSET RED MAPLE	36" BOX	20' X 10'	40' X 20'	18	M	STANDARDS, WELL-BRANCHED STRAIGHT SINGLE LEADER. 12'-14' HT., 36"-48" SPRD. 2" - 3 1/2" CALIPER. SPECIMENS MATCHED IN SIZE, SHAPE AND HEIGHT.
	ARBUTUS X 'MARINA' (SUBSTITUTE)	NCN	36" BOX	16' X 8'	40' X 25'	NOT USED		
	LAGERSTROEMIA INDICA 'TUSCARORA'	CRAPE MYRTLE	36" BOX	16' X 8'	15' X 30'	9	L	STANDARDS, WELL-BRANCHED STRAIGHT SINGLE LEADER. 10'-12' HT., 36"-48" SPRD. 1 3/4" - 2 1/2" CALIPER. SPECIMENS MATCHED IN SIZE, SHAPE AND HEIGHT.
	LOPHOSTEMON CONFERTUS	BRISBANE BOX	36" BOX	20' X 10'	30' X 15'	NOT USED		STANDARDS, 12'-14' HT., 36"-48" SPRD. 2"-3 1/2" CALIPER. SPECIMENS MATCHED IN SIZE, SHAPE AND HEIGHT.
	(SUBSTITUTE)							
	PYRUS CALLERYANA 'ARISTOCRAT'	FLOWERING PEAR	36" BOX	16' X 8'	25' X 20'	NOT USED		
	PLATANUS ACERIFOLIA 'COLUMBIA'	LONDON PLANE TREE	36" BOX	16' X 8'	50' X 50'	12	M	STANDARDS, WELL-BRANCHED STRAIGHT SINGLE LEADER. 12'-14' HT., 36"-48" SPRD. 2" - 3 1/2" CALIPER. SPECIMENS MATCHED IN SIZE, SHAPE AND HEIGHT.
	QUERCUS RUBRA (SUBSTITUTE)	RED OAK	36" BOX	16' X 8'	30' X 40'	NOT USED		
	QUERCUS LOBATA	CORK OAK	36" BOX	16' X 8'	30' X 40'	13	L	STANDARDS, TRUNK FREE OF BRANCHES 7-9 FT. 14'-16' HT., 48"-60" SPRD. 3" CALIPER. SPECIMENS MATCHED IN SIZE, SHAPE AND HEIGHT.
VINES:								
	DISTICTIS 'RIVERS'	ROYAL TRUMPET VINE	5 GAL			6	-	PLANT AS VINE AS SHOWN ON PLANS AT ANCILLARY BUILDING GREENSCREEN PANELS.
SHRUBS:								
	AGAVE VILMORINIANA	OCTOPUS AGAVE	15 GAL			190	L	A.A.N.S FULL. PLANT AT 4' O.C. AS SHOWN ON PLANS.
	ALOE BARBERAE	TREE ALOE	15 GAL			12	L	A.A.N.S FULL. PLANT AT 2' O.C. AS SHOWN ON PLANS.
	HEMEROCALLIS EVERGREEN 'YELLOW'	DAY LILY	5 GAL			1009	M	A.A.N.S FULL. PLANT AT 2'-6" O.C. AS SHOWN ON PLANS.
	LANTANA MONTEVIDENSIS	PURPLE TRAILING LANTANA	5 GAL			93	L	A.A.N.S FULL. PLANT AT 3' O.C. AS SHOWN ON PLANS.
	MUHLENBERGIA CAPILLARIS	PINK MUHLY	5 GAL			364	L	A.A.N.S FULL. PLANT AT 2'-6" O.C. AS SHOWN ON PLANS.
	PHORMIUM 'CREAM DELIGHT'	CREAM DELIGHT NEW ZEALAND FLAX	5 GAL			641	L	A.A.N.S FULL. PLANT AT 2'-6" O.C. AS SHOWN ON PLANS.
	PHORMIUM 'BRONZE BABY'	BRONZE BABY NEW ZEALAND FLAX	5 GAL			142	L	A.A.N.S FULL. PLANT AT 2'-6" O.C. AS SHOWN ON PLANS.
	PRUNUS CAROLINIANA 'MONUS'	BRIGHT 'N TIGHT CAROLINA CHERRY	15 GAL			60	L	A.A.N.S FULL. PLANT AT 48" O.C. AS SHOWN ON PLANS.
GROUND COVER:								
	DETENTION BASIN PLANTING AT THE 'CROSSING AT MONTAGUE' BASIN.	-	-			-	L	AT THE CROSSING AT MONTAGUE BASIN. PROTECT EXISTING PLANT MATERIAL ADJACENT TO THE PROJECT LIMITS. REPLACE IN KIND ANY NEW MATERIAL THAT IS DAMAGED OR DESTROYED BY NEW CONSTRUCTION. REFER TO NOTES FOR REQUIREMENTS/ GUIDELINES ON PLANT REPLACEMENT.
	FESTUCA GLAUCA 'ELIJAH BLUE'	ELIJAH BLUE FESCUE	4" POTS			675 S.F.	L	A.A.N.S FULL. PLANT AT 12" O.C. KEEP PLANTS 6" FROM EDGE OF CURBS AND PAVEMENTS. PLANT 2 ROW BORDER
	FESTUCA RUBRA 'MOLATE'	MOLATE RED FESCUE	4" POTS @ 12" O.C. OR 1 GAL @ 20" O.C.			7,750 S.F. 2,575 S.F.	L	A.A.N.S FULL. PLANT 4" POTS AT 12" O.C. OR 1 GALLON AT 20" O.C., SEE PLAN FOR SIZE.
	JUNCUS PATENS	CALIFORNIA GRAY RUSH	1 GAL			4,925 S.F.	H	A.A.N.S FULL. PLANT AT 20" O.C. KEEP PLANTS 12" FROM EDGE OF CURBS AND PAVEMENTS.
	SENECIO MANDRALISCAE	BLUE CHALK STICKS	4" POTS			4,050 S.F.	L	A.A.N.S FULL. PLANT AT 12" O.C. KEEP PLANTS 6" FROM EDGE OF CURBS AND PAVEMENTS. PLANT AS UNDER STORY FOR AGAVE VILMORINIANA.
	TURF	DWARF TALL FESCUE 'AVANTI DWARF'	SOD			9,360 S.F.	H	-
	EXISTING PLANT MATERIAL REPLACE IN-KIND	DIETES BICOLOR LANTANA MONTEVIDENSIS TULBAHIA VIOLACEA	5 GAL 1" GAL 1 GAL			3 50 40	L M L	PROTECT EXISTING PLANT MATERIAL ADJACENT TO THE PROJECT LIMITS. REPLACE IN KIND ANY NEW MATERIAL THAT IS DISTURBED BY NEW CONSTRUCTION.
MISCELLANEOUS								
	ROOT CONTROL BARRIER, SEE							
	STRUCTURAL SOIL AREA, SEE							
	UNFINISHED GRADE 'DIRT'							

NOTE: THIS PROJECT IS LOCATED IN SUNSET ZONE #17
A.A.N.S = AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS

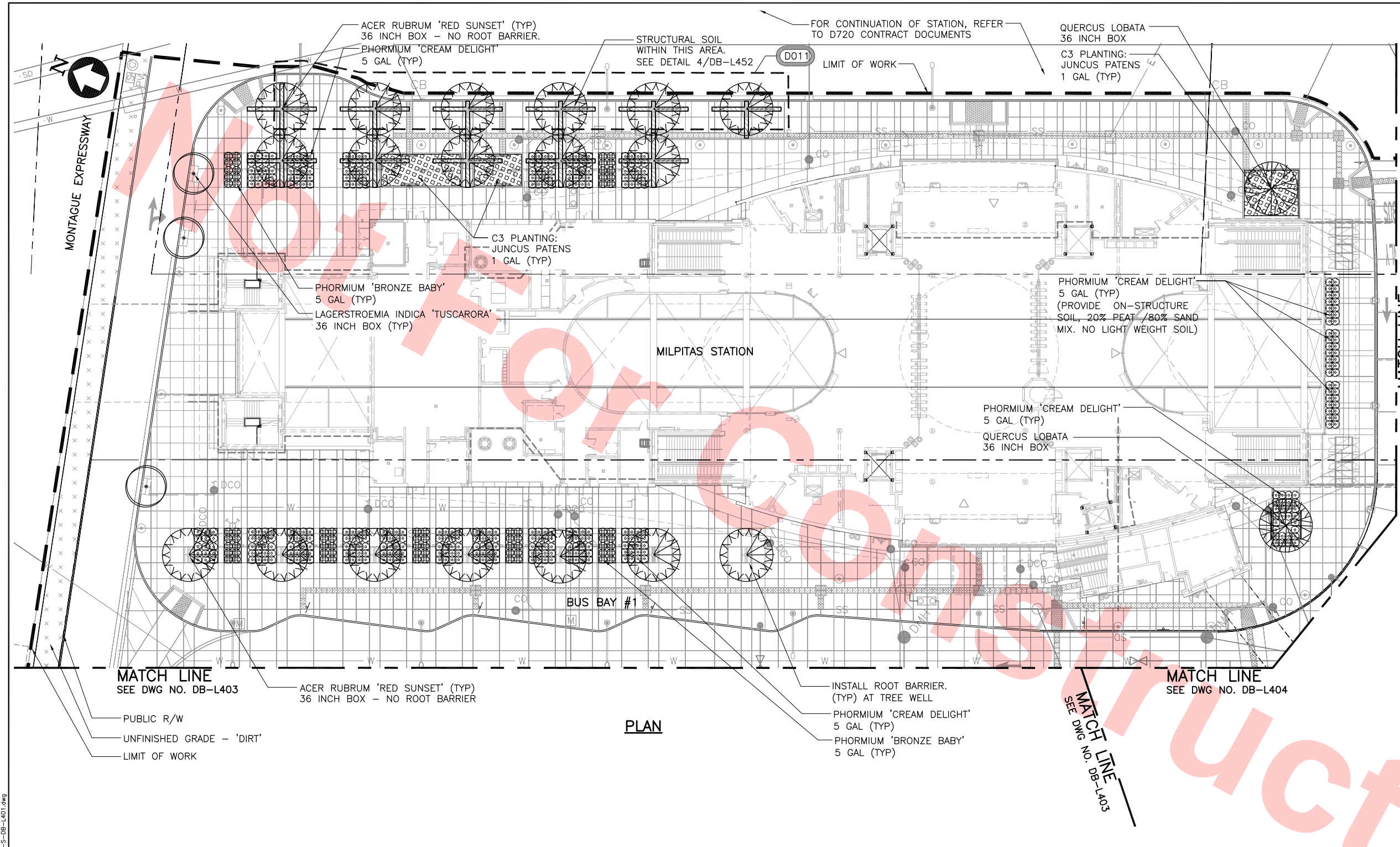
NOTES:

1. COORDINATE INSTALLATION OF ALL FACILITY UTILITIES TO INSURE THAT NO UTILITIES ARE LOCATED IN OR CLOSE TO TREE PLANTING AREAS. NOTIFY DISTRICT REPRESENTATIVE FOR DIRECTION IF UTILITIES ARE FOUND IN TREE PLANTING AREAS.
2. COMPLY WITH BART PLANTING AND IRRIGATION DETAILS AND REQUIREMENTS IN ALL BART MAINTAINED AREAS. COMPLY WITH CITY OF MILPITAS PLANTING AND IRRIGATION DETAILS AND REQUIREMENTS IN AREAS WITHIN THE CITY RIGHT OF WAY.
3. VERIFY EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES PRIOR TO WORK. ALL COSTS ASSOCIATED WITH LOCATING EXISTING UTILITIES, INCLUDING POT-HOLING, ARE TO BE CONSIDERED AS INCLUDED IN THE CONTRACT PRICES PAID FOR THE VARIOUS ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFOR.
4. FINAL LOCATION OF ALL PLANTS TO BE APPROVED BY THE DISTRICT REPRESENTATIVE PRIOR TO INSTALLATION. NOTIFY THE DISTRICT REPRESENTATIVE FOR DIRECTION IF PLANT LOCATIONS REQUIRE ADJUSTMENT DUE TO, BUT NOT NECESSARILY LIMITED TO THE FOLLOWING, UNDERGROUND OR ABOVE GROUND UTILITIES, STRUCTURES, SIGHT DISTANCES AND COMPLIANCE WITH UTILITY AND/OR CITY REQUIREMENTS FOR SETBACKS AND RESTRICTIONS. NOTIFICATION TO OCCUR PRIOR TO IRRIGATION AND/OR PLANT INSTALLATION. DISTRICT REPRESENTATIVE'S APPROVAL IS REQUIRED FOR ALL ADJUSTMENTS PRIOR TO INSTALLATION. CONTRACTOR IS TO INCLUDE ALL COSTS ASSOCIATED WITH ADJUSTMENTS IN IRRIGATION AND/OR PLANT LOCATIONS IN THE CONTRACT PRICES PAID FOR THE VARIOUS ITEMS OF WORK AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFOR.
5. LOCATE THE LIGHTS AND SIGNS BETWEEN THE TREES SHOWN ON PLANTING PLANS. SWEEP ALL UTILITY CONDUITS AROUND TREE LOCATIONS.
6. COORDINATE LOCATION OF TREES WITH LIGHTING IN BUS TRANSIT LOT ISLANDS AND ALONG ROADS. STATION TREES SHOWN IN TREE PLANTERS ARE TO BE INSTALLED WHERE SHOWN. LIGHTING SHALL BE DESIGNED TO ACCOMMODATE THESE LOCATIONS.
7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES, AND FURNISHING AND INSTALLING ALL PLANTS AND MATERIALS SHOWN ON THE PLANS AND AS REQUIRED BY THESE CONTRACT DOCUMENTS. IF REQUIRED ALL PLANTS, INCLUDING TREES ARE TO BE CONTRACT GROWN. NO SUBSTITUTIONS DUE TO UNAVAILABILITY WILL BE ALLOWED.
8. THE CONTRACTOR IS RESPONSIBLE FOR FINISH GRADING ALL LANDSCAPED AREAS INCLUDING TOPSOIL AND MULCHED DIRT AREAS. ALL LANDSCAPED AND DECOMPOSED GRANITE AREAS ARE TO HAVE POSITIVE DRAINAGE. NO LOW SPOTS/ HUMPS OR BIRDBATHS WILL BE ALLOWED.
9. PLANTS ARE TO CONFORM TO THE STATE OF CALIFORNIA GRADING CODE OF NURSERY STOCK, NO.1 GRADE, AND SHALL BE IN PRIME CONDITION WHEN INSTALLED AND ACCEPTED. SEE PLANTING SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING QUALITY, TRANSPORTATION, PLANTING, ETC.
10. SOIL AMENDMENT FOR ALL PLANTING AREAS SHALL BE ORGANIC YARD WASTE COMPOST APPROVED BY THE DISTRICT REPRESENTATIVE AND IN ACCORDANCE WITH THE SPECIFICATIONS.
11. INSPECTION OF ALL PLANTS WILL BE DONE BY THE DISTRICT REPRESENTATIVE AT THE PROJECT SITES.
12. APPLY PRE-EMERGENT HERBICIDE TO ALL TREE, SHRUB AND GROUNDCOVER PLANTING BED AREAS INCLUDING TREE / SHRUB BASINS AND MULCHED DIRT AREAS. CHEMICALS USED ARE TO BE IN A WRITTEN CHEMICAL WEED CONTROL PROGRAM PREPARED BY A LICENSED PEST CONTROL ADVISOR AND APPROVED BY THE DISTRICT REPRESENTATIVE AND CITY MAINTENANCE DEPARTMENT.
13. FOR BART MAINTAINED LOCATIONS, INSTALL LANDSCAPE FABRIC IN ALL DIRT AREAS TO BE MULCHED WITH BARK MULCH. KEEP FABRIC AWAY FROM WATERING BASINS AROUND PLANTS. INSTALL AFTER PRE-EMERGENT APPLICATIONS AND PRIOR TO INSTALLING MULCH AND DECOMPOSED GRANITE.

NOTES CONTINUED:

- OVERLAP FABRIC SPICES MINIMUM 6" AND SECURE SPlice TO SOIL WITH "U" SHAPED WIRE SET INTO SOIL MINIMUM 4" DEEP.
14. INSTALL A 3 INCH LAYER OF BARK MULCH IN ALL TREE AND SHRUB BASINS AND ALL PLANTING AREAS. KEEP MULCH AWAY FROM DIRECT CONTACT WITH STEMS OF PLANTS AND TRUNKS OF TREES. ADJUST FINISH GRADE ADJACENT TO FINISH SURFACE TO ALLOW FOR FULL DEPTH OF REQUIRED MULCH.
15. EXISTING PLANTS SPECIFIED TO REMAIN THAT ARE DESTROYED/ DAMAGED, AND/OR EXHIBIT SIGNS OF DIE-BACK AS A RESULT OF THIS CONSTRUCTION WORK ARE TO BE REPLACED AT THE CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE DISTRICT REPRESENTATIVE. THE SIZE AND VALUE OF REPLACEMENT TREES AND SHRUBS WILL BE DETERMINED BY THE DISTRICT REPRESENTATIVE BASED ON THE "GUIDE FOR PLANT APPRAISAL" CURRENT EDITION, OR SIMILAR REVISED PLANT EVALUATION HANDBOOK PUBLISHED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE. INSTALLATION AND GUARANTEE OF REPLACEMENT PLANTING IS TO CONFORM TO THE CONTRACT DOCUMENTS.
16. EXISTING IRRIGATION SYSTEMS ADJACENT TO THE PROJECT LIMITS THAT ARE IMPACTED BY THE PROJECT SHALL BE MODIFIED TO OPERATE PROPERLY. MAKE REQUIRED ADJUSTMENTS TO EXISTING SYSTEMS SO THAT FULL AND UNIFORM IRRIGATION COVERAGE IS PROVIDED TO REMAINING EXISTING PLANTS ADJACENT TO AND AFFECTED BY THIS CONSTRUCTION. NOTIFY DISTRICT REPRESENTATIVE FOR DIRECTION REGARDING ANY ISSUES PRIOR TO WORK.
17. COORDINATE THE REMOVAL OF EXISTING PLANTS, IRRIGATION AND OTHER OBSTRUCTIONS IN AREAS WHERE NEW PLANTING IS TO BE INSTALLED AS SHOWN ON THESE CONTRACT DOCUMENTS AND WHERE NEW IRRIGATION IS TO BE DESIGNED AND INSTALLED BY THE CONTRACTOR. TOPSOIL SUITABLE FOR SUSTAINING VIGOROUS AND HEALTHY PLANT GROWTH IS TO BE INSTALLED IN ALL PLANTING AREAS. TEST SOILS IN PLANTING AREAS IN ACCORDANCE WITH THE SPECIFICATIONS AND ADD RECOMMENDED CHEMICALS, FERTILIZERS AND AMENDMENTS AS REQUIRED BY THE SOIL TESTS. NOTIFY DISTRICT REPRESENTATIVE FOR DIRECTION REGARDING ANY ISSUES PRIOR TO WORK.
18. IF VEGETATED SWALES ARE ADDED TO AREAS NOT INDICATED ON THE PLANS, PLANTING MUST BE RE-EVALUATED FOR SUITABILITY FOR GROWTH IN THE SWALES.
19. STRUCTURAL SOIL SHALL BE FURNISHED AND INSTALLED IN LOCATIONS SHOWN ON DRAWINGS. STRUCTURAL SOIL SHALL BE CU SOIL AS PATENTED BY CORNELL UNIVERSITY (US PATENT # 5,849,069) AS AVAILABLE FROM TMT ENTERPRISES, SAN JOSE, CA (408)432-9040. ONLY LICENSED PRODUCERS ARE ALLOWED TO SUPPLY THIS MATERIAL.
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
2. GROUND COVER AND SHRUBS ARE TO BE TRIANGULARLY SPACED UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
3. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM, UNLESS NOTED OTHERWISE ON THE PLANTING PLAN/ LEGEND.
4. PLANT QUANTITIES LABELED ON ALL PLANS ARE FOR IN-HOUSE REFERENCE PURPOSES ONLY. THE PLANT SPACING SHOWN ON THE PLANTING LEGEND SHALL TAKE PRECEDENCE DURING BIDDING AND CONSTRUCTION PHASES. THE ONUS IS UPON THE CONTRACTOR TO CALCULATE FINAL PLANT QUANTITIES.
5. ALL TREES ADJACENT TO PATH OF TRAVEL SHALL HAVE BRANCHES THAT OVER-HANG PATH OF TRAVEL MINIMUM 80" CLEAR OF FINISH SURFACE TO COMPLY WITH ADA REQUIREMENTS.

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PLANTING LEGEND		
SYMBOL	BOTANICAL NAME COMMON NAME	SIZE
	ACER RUBRUM 'RED SUNSET' SUNSET RED MAPLE	36" BOX
	LAGERSTROEMIA INDICA 'TUSCARORA' CRAPE MYRTLE	36" BOX
	PLATANUS ACERIFOLIA 'COLUMBIA' LONDON PLANE TREE	36" BOX
	QUERCUS LOBATA CORK OAK	36" BOX
	AGAVE VILMORINIANA OCTOPUS AGAVE	15 GAL
	ALOE BARBERAE TREE ALOE	15 GAL
	HEMEROCALLIS DAY LILY	5 GAL
	LANTANA MONTEVIDENSIS LANTANA	5 GAL
	MUHLENBERGIA CAPILLARIS PINK MUHLY	5 GAL
	PHORMIUM 'CREAM DELIGHT' CREAM DELIGHT NEW ZEALAND FLAX	5 GAL
	PHORMIUM 'BRONZE BABY' BRONZE BABY NEW ZEALAND FLAX	5 GAL
	PRUNUS CAROLINIANA 'MONUS' BRIGHT 'N TIGHT CAROLINA CHERRY	15 GAL
	DETENTION BASIN PLANTING AT THE 'CROSSINGS AT MONTAGUE' BASIN	REFER TO LEGEND
	FESTUCA GLAUCA 'ELIJAH BLUE' ELIJAH BLUE FESCUE	4" POTS
	FESTUCA RUBRA 'MOLATE' MOLATE RED FESCUE	4" POTS OR 1 GAL
	JUNCUS PATENS CALIFORNIA GRAY RUSH	1 GAL
	SENECIO MANDRALISCAE BLUE CHALK STICKS	4" POTS
	EXISTING PLANT MATERIAL REPLACE IN-KIND	HYDROSEED & PLUGS

ROOT CONTROL BARRIER, SEE DB-L451

STRUCTURAL SOIL AREA, SEE DB-L452

UNFINISHED GRADE - 'DIRT'

REFERENCE NOTES:

- FOR PLANTING NOTES AND LEGENDS, SEE DRAWING DB-L400
- FOR TYPICAL PLANTING DETAILS, SEE DRAWINGS DB-L451 & DB-L452
- REFER TO CIVIL DRAWINGS FOR TREE SUB DRAINAGE TIE-INS

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: _____

DESIGNED BY: J. KEENAN
DRAWN BY: B. HANSON
CHECKED BY: W. ARATA
IN CHARGE: R. BARLAAN
DATE: 20130710

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

Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

Lookwood, Andrews & Nowman, Inc.
A LEOP A BALLY COMPANY

T-Y LIN INTERNATIONAL

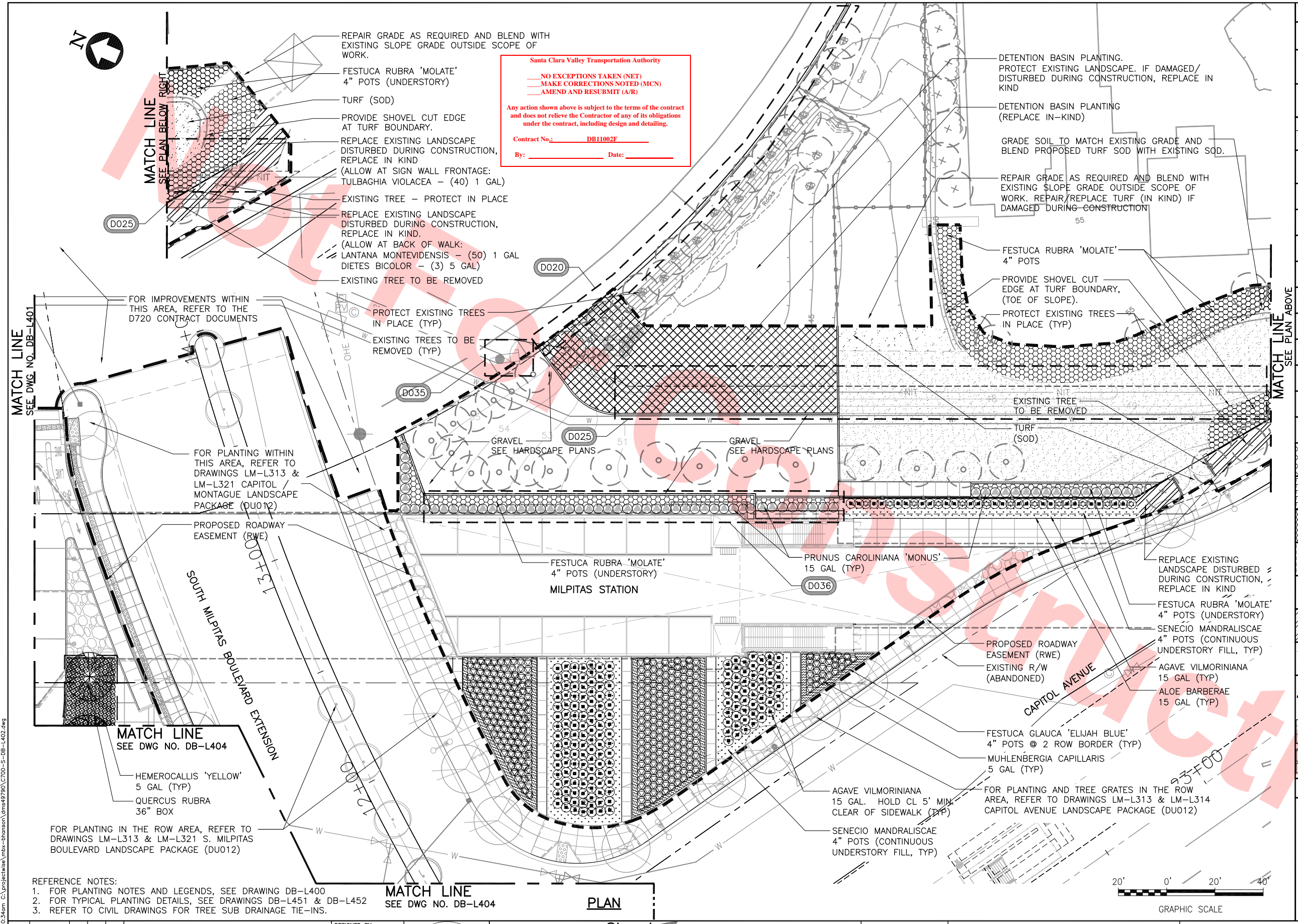
BART SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

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

SHEET 1 OF 4

CADD FILENAME: C700-S-DB-L401.dwg
SIZE SCALE: 1"=20'-0"
CONTRACT NO.: C700
AREA CODE: DB
SHEET NO.: L401
PAGE NO.: 0127

Jun 25, 2013 - 9:07am C:\projects\msh\hanson\lms49790\700-S-DB-L401.dwg



PLANTING LEGEND

SYMBOL	BOTANICAL NAME COMMON NAME	SIZE
	ACER RUBRUM 'RED SUNSET' SUNSET RED MAPLE	36" BOX
	LAGERSTROEMIA INDICA 'TUSCARORA' CRAPE MYRTLE	36" BOX
	PLATANUS ACERIFOLIA 'COLUMBIA' LONDON PLANE TREE	36" BOX
	QUERCUS LOBATA CORK OAK	36" BOX
	EXISTING TREE (PROTECT IN PLACE)	
	EXISTING TREE (REMOVE)	
	AGAVE VILMORINIANA OCTOPUS AGAVE	15 GAL
	ALOE BARBERAE TREE ALOE	15 GAL
	HEMEROCALLIS DAY LILY	5 GAL
	LANTANA MONTEVIDENSIS LANTANA	5 GAL
	MUHLENBERGIA CAPILLARIS PINK MUHLY	5 GAL
	PHORMIUM 'CREAM DELIGHT' CREAM DELIGHT NEW ZEALAND FLAX	5 GAL
	PHORMIUM 'BRONZE BABY' BRONZE BABY NEW ZEALAND FLAX	5 GAL
	PRUNUS CAROLINIANA 'MONUS' BRIGHT 'N TIGHT CAROLINA CHERRY	15 GAL
	DETENTION BASIN PLANTING AT THE 'CROSSINGS AT MONTAGUE' BASIN	REFER TO LEGEND
	FESTUCA GLAUCA 'ELIJAH BLUE' ELIJAH BLUE FESCUE	4" POTS
	FESTUCA RUBRA 'MOLATE' MOLATE RED FESCUE	4" POTS
	JUNCUS PATENS CALIFORNIA GRAY RUSH	1 GAL
	SENECIO MANDRALISCAE BLUE CHALK STICKS	4" POTS
	EXISTING PLANT MATERIAL REPLACE IN-KIND	-
	SOD DWARF TALL FESCUE 'AVANTI DWARF'	-

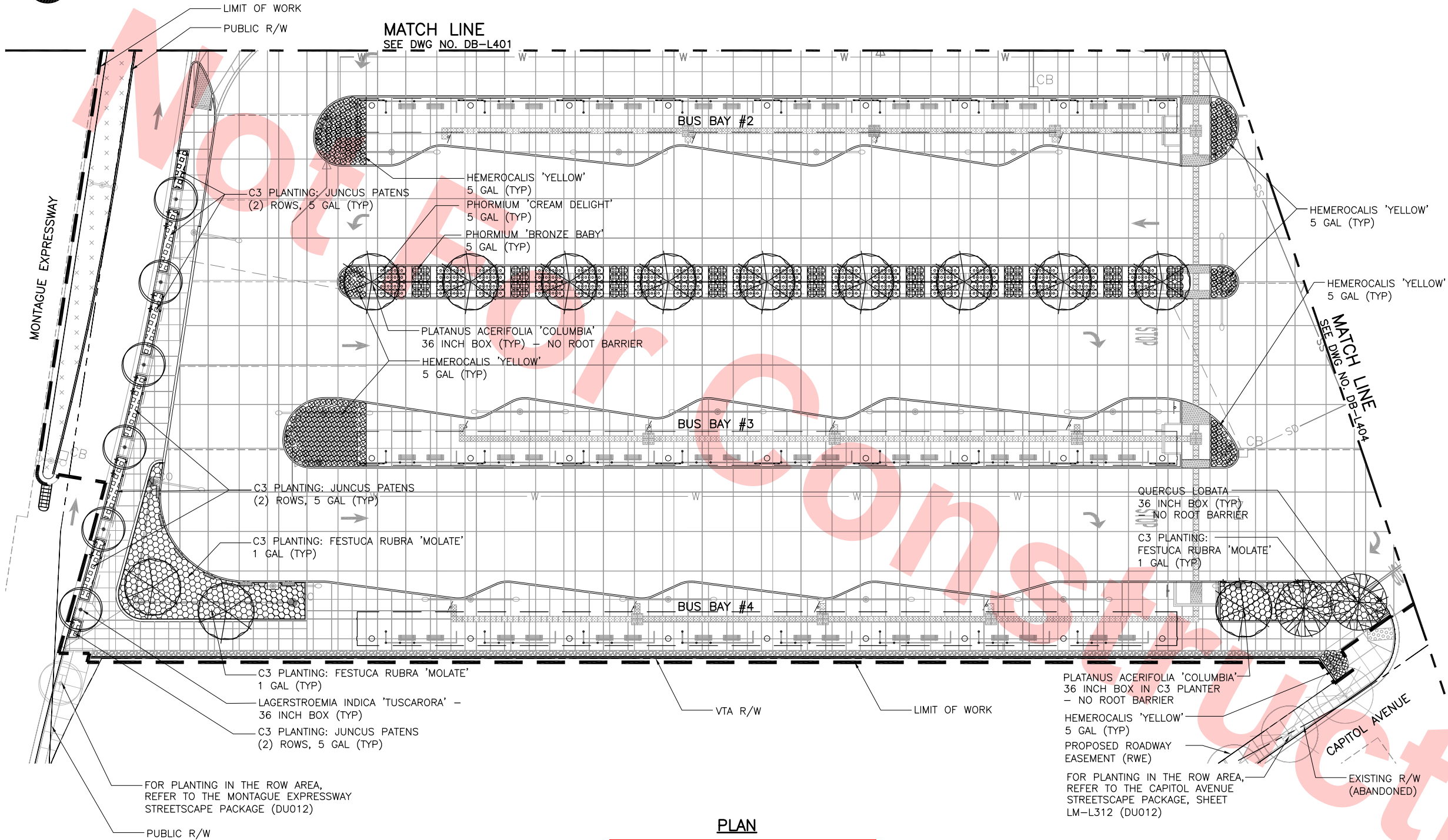
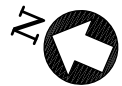
ROOT CONTROL BARRIER, SEE
DB-L451

STRUCTURAL SOIL AREA, SEE
DB-L452

UNFINISHED GRADE - 'DIRT'

KEYMAP

Jun 25, 2013 - 9:11 am C:\projects\msh\hanson\lms49790\700-S-DB-L403.dwg
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PLAN

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: _____

- NOTES:
- FOR PLANTING NOTES AND LEGENDS, SEE DRAWING DB-L400
 - FOR TYPICAL PLANTING DETAILS, SEE DRAWINGS DB-L451 & DB-L452
 - REFER TO CIVIL DRAWINGS FOR TREE SUB DRAINAGE TIE-INS

DESIGNED BY
J. KEENAN
DRAWN BY
B. HANSON
CHECKED BY
W. ARATA
IN CHARGE
R. BARLAAN
DATE
20130710



Anil Verma Associates, Inc.
1970 Broadway, Suite 525 Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Lookwood, Andrews
& Newman, 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
PLANTING PLAN

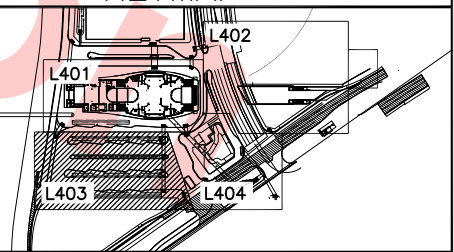
SHEET 3 OF 4

PLANTING LEGEND

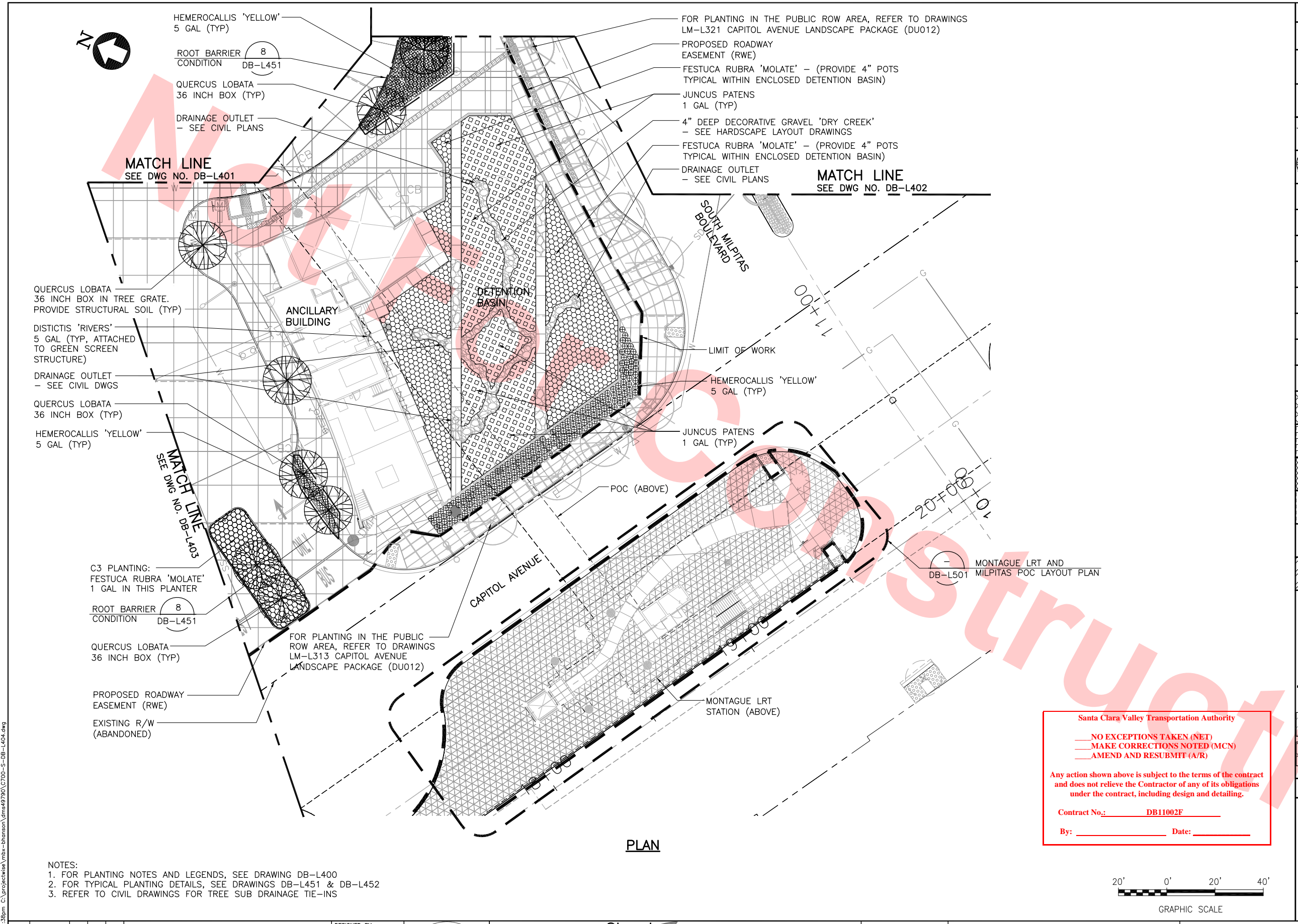
SYMBOL	BOTANICAL NAME COMMON NAME	SIZE
	ACER RUBRUM 'RED SUNSET' SUNSET RED MAPLE	36" BOX
	LAGERSTROEMIA INDICA 'TUSCARORA' CRAPE MYRTLE	36" BOX
	PLATANUS ACERIFOLIA 'COLUMBIA' LONDON PLANE TREE	36" BOX
	QUERCUS RUBRA RED OAK	36" BOX
	AGAVE VILMORINIANA OCTOPUS AGAVE	15 GAL
	ALOE BARBERAE TREE ALOE	15 GAL
	HEMEROCALLIS DAY LILY	5 GAL
	LANTANA MONTEVIDENSIS LANTANA	5 GAL
	MUHLENBERGIA CAPILLARIS PINK MUHLY	5 GAL
	PHORMIUM 'CREAM DELIGHT' CREAM DELIGHT NEW ZEALAND FLAX	5 GAL
	PHORMIUM 'BRONZE BABY' BRONZE BABY NEW ZEALAND FLAX	5 GAL
	PRUNUS CAROLINIANA 'MONUS' BRIGHT 'N TIGHT CAROLINA CHERRY	15 GAL
	DETENTION BASIN PLANTING AT THE 'CROSSINGS AT MONTAGUE' BASIN	REFER TO LEGEND
	FESTUCA GLAUCA 'ELIJAH BLUE' ELIJAH BLUE FESCUE	4" POTS
	FESTUCA RUBRA 'MOLATE' MOLATE RED FESCUE	1 GAL
	JUNCUS PATENS CALIFORNIA GRAY RUSH	1 GAL
	SENECIO MANDRALISCAE BLUE CHALK STICKS	4" POTS
	EXISTING PLANT MATERIAL REPLACE IN-KIND	HYDRPOSEED & PLUGS

- ROOT CONTROL BARRIER, SEE DB-L451
- STRUCTURAL SOIL AREA, SEE
- UNFINISHED GRADE - 'DIRT'

KEYMAP



CADD FILENAME
C700-S-DB-L403.dwg
SIZE SCALE
D 1"=20'-0"
CONTRACT NO. C700 REV. 0
AREA CODE SHEET NO. DB L403 PAGE NO. 0129

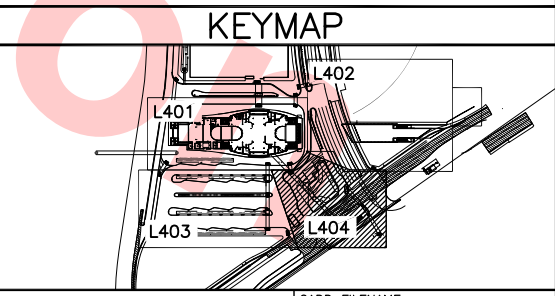


PLANTING LEGEND		
SYMBOL	BOTANICAL NAME COMMON NAME	SIZE
	ACER RUBRUM 'RED SUNSET' SUNSET RED MAPLE	36" BOX
	LAGERSTROEMIA INDICA 'TUSCARORA' CRAPE MYRTLE	36" BOX
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	QUERCUS LOBATA CORK OAK	36" BOX
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	MUHLENBERGIA CAPILLARIS PINK MUHLY	5 GAL
	PHORMIUM 'CREAM DELIGHT' CREAM DELIGHT NEW ZEALAND FLAX	5 GAL
	PHORMIUM 'BRONZE BABY' BRONZE BABY NEW ZEALAND FLAX	5 GAL
	PRUNUS CAROLINIANA 'MONUS' BRIGHT 'N TIGHT CAROLINA CHERRY	15 GAL
	DETENTION BASIN PLANTING AT THE 'CROSSINGS AT MONTAGUE' BASIN	REFER TO LEGEND
	FESTUCA GLAUCA 'ELIJAH BLUE' ELIJAH BLUE FESCUE	PLUGS
	FESTUCA RUBRA 'MOLATE' MOLATE RED FESCUE	4" POTS OR 1 GAL
	JUNCUS PATENS CALIFORNIA GRAY RUSH	1 GAL
	SENECIO MANDRALISCAE BLUE CHALK STICKS	4" POTS
	EXISTING PLANT MATERIAL REPLACE IN-KIND	REFER TO LEGEND

ROOT CONTROL BARRIER, SEE DB-L451

STRUCTURAL SOIL AREA, SEE

UNFINISHED GRADE - 'DIRT'



02130710

20130710

BY

DATE

APP

DESCRIPTION

READINESS FOR CONSTRUCTION

DESIGNED BY
J. KEENAN

DRAWN BY
B. HANSON

CHECKED BY
W. ARATA

IN CHARGE
R. BARLAAN

DATE
20130710

LANDSCAPE ARCHITECT
JAMES M. KEENAN
C.C. No. 38655
02/10/13
9-30-13
STATE OF CALIFORNIA

Skanska
Shimmick
Herzog

1436 California Circle
Milpitas, California 95035
A Joint Venture

Anil Verma Associates, Inc.

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BART
SILICON VALLEY

BART SILICON VALLEY BERRYESSA EXTENSION

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

SHEET 4 OF 4

CADD FILENAME
C700-S-DB-L404.dwg

SIZE SCALE
D 1"=20'-0"

CONTRACT NO.
C700

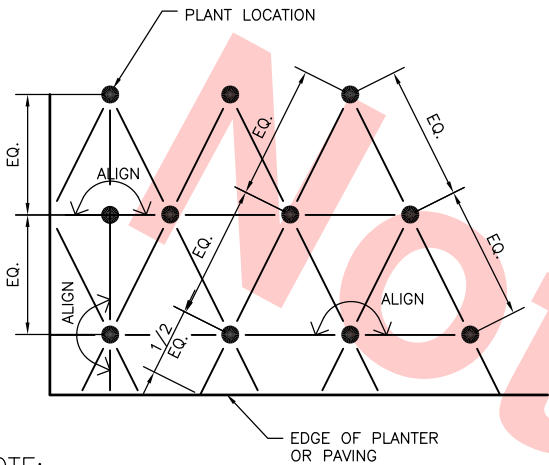
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DB

SHEET NO.
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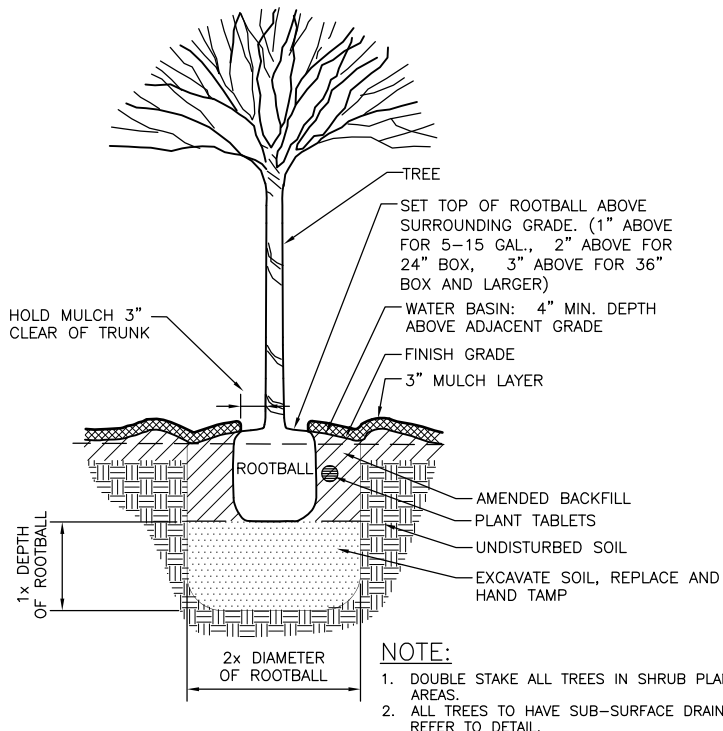
NOTE:

- SEE PLANTING LEGEND FOR SPACING OF ALL SHRUBS AND GROUND COVERS
- TO DETERMINE SHRUB QUANTITIES REFER TO THE FOLLOWING FORMULAS:

SPACING ON-CENTER	* x SF = Qty. of Plants	SPACING ON-CENTER	* x SF = Qty. of Plants
6"	* 4.61	30"	* 0.18
8"	* 2.6	36"	* 0.123
10"	* 1.66	48"	* 0.0725
12"	* 1.15	60"	* 0.046
15"	* 0.73	72"	* 0.032
18"	* 0.57	96"	* 0.018
24"	* 0.29	120"	* 0.0116

DETAIL

TRIANGULAR SHRUB / GROUND COVER SPACING DB-L451
NOT TO SCALE

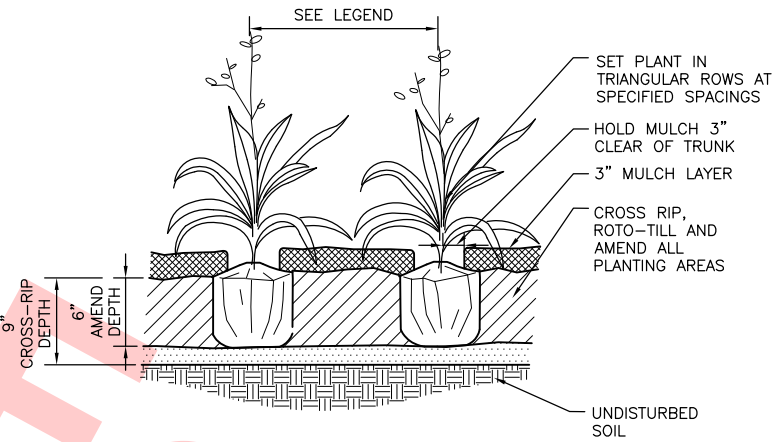


NOTE:

- DOUBLE STAKE ALL TREES IN SHRUB PLANTER AREAS.
- ALL TREES TO HAVE SUB-SURFACE DRAINAGE. REFER TO DETAIL.
- COORDINATE INSTALLATION OF ABOVE AND BELOW GRADE IRRIGATION BUBBLERS. REFER TO IRRIGATION PLAN.

SECTION DETAIL

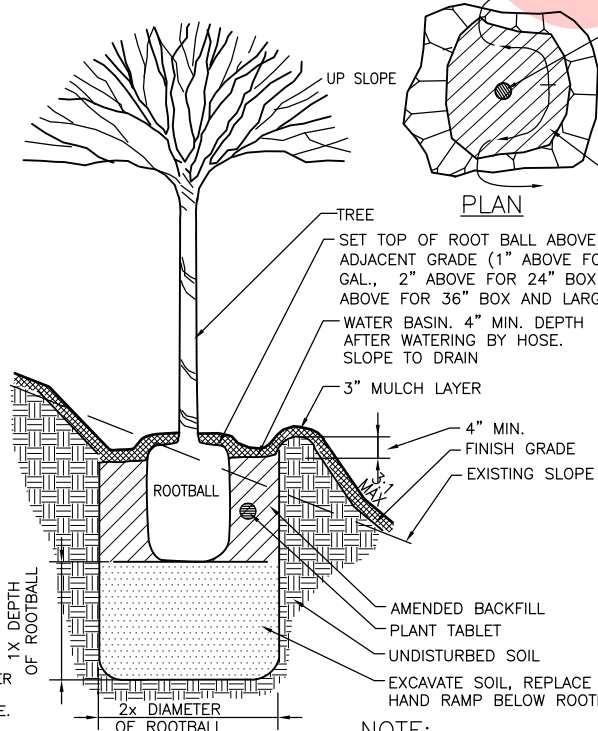
TREE PLANTING NOT TO SCALE



SECTION

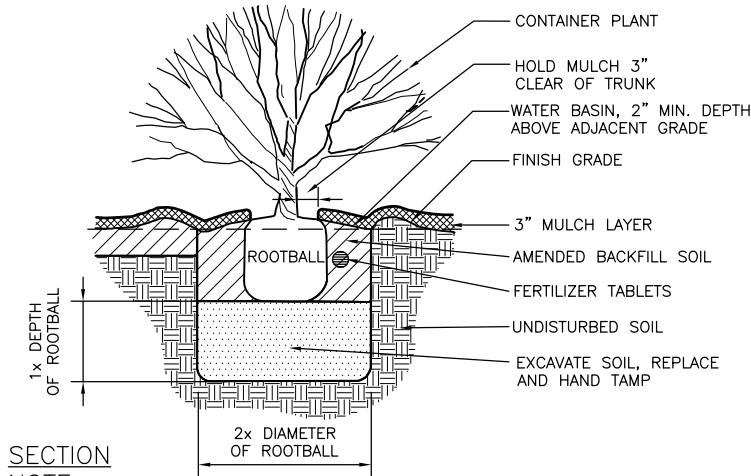
DETAIL

GROUND COVER PLANTING NOT TO SCALE



SECTION DETAIL

TREE PLANTING AT SLOPE NOT TO SCALE

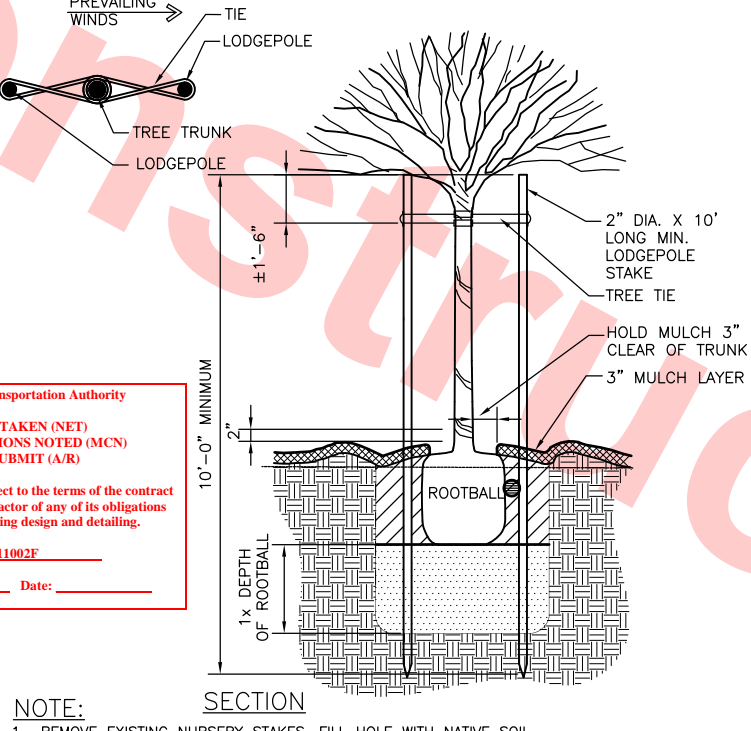


SECTION NOTE:

- SET TOP OF ROOTBALL 1" ABOVE SURROUNDING GRADE.
- COORDINATE INSTALLATION OF BUBBLER WITH SHRUB WHERE APPLICABLE.
- SCARIFY OUTSIDE OF ROOT BALL TO PROMOTE ROOT GROWTH INTO AMENDED BACKFILL.

DETAIL

SHRUB PLANTING NOT TO SCALE

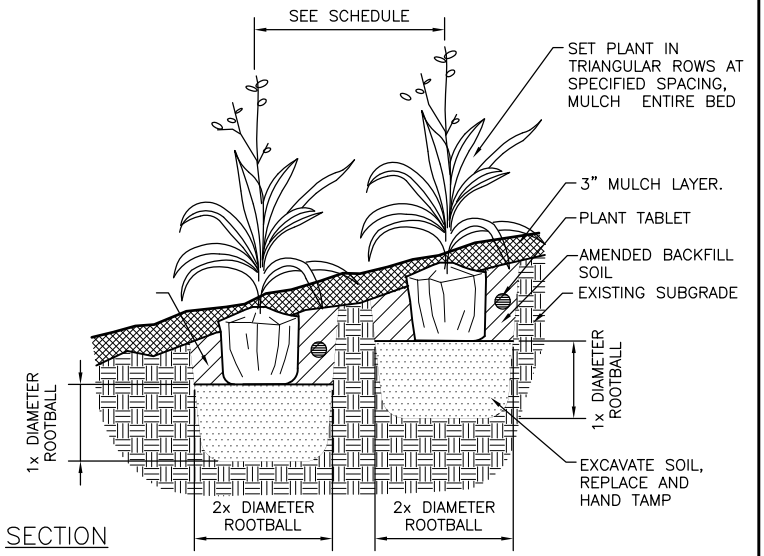


NOTE:

- REMOVE EXISTING NURSERY STAKES. FILL HOLE WITH NATIVE SOIL.
- COORDINATE INSTALLATION OF STAKES WITH TREE SUB-SURFACE DRAINAGE SYSTEM.
- EXTEND STAKE MINIMUM 12' INTO NATIVE UNDISTURBED SOIL.

DETAIL

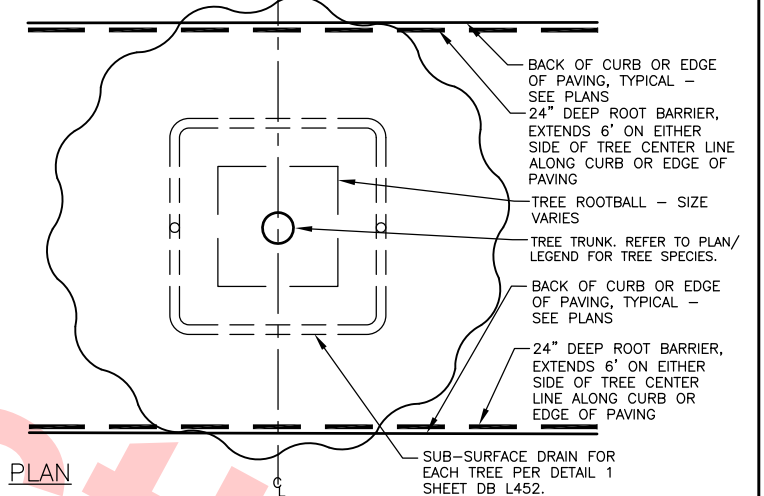
DOUBLE TREE STAKING NOT TO SCALE



SECTION

DETAIL

SHRUB PLANTING AT SLOPE NOT TO SCALE



NOTE:

- ROOT BARRIER TO BE USED ON ALL TREES WITHIN 5' OF HARDSCAPE, EXCEPT AT AREAS UTILIZING STRUCTURAL SOIL BELOW PAVING. SEE SPECIFICATION.
- REFER TO ROOT BARRIER MANUFACTURER DETAILS, NOTES AND SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
- COORDINATE INSTALLATION OF ROOT BARRIER WITH TREE SUB-SURFACE DRAINAGE SYSTEM.

DETAIL

ROOT BARRIER CONDITION NOT TO 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: _____

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breth

DESIGNED BY J. KEENAN	0	20130710				READINESS FOR CONSTRUCTION
DRAWN BY B. HANSON	REV	DATE	BY	SUB	APP	DESCRIPTION
CHECKED BY W. ARATA						
IN CHARGE R. BARLAAN						
DATE 20130710						

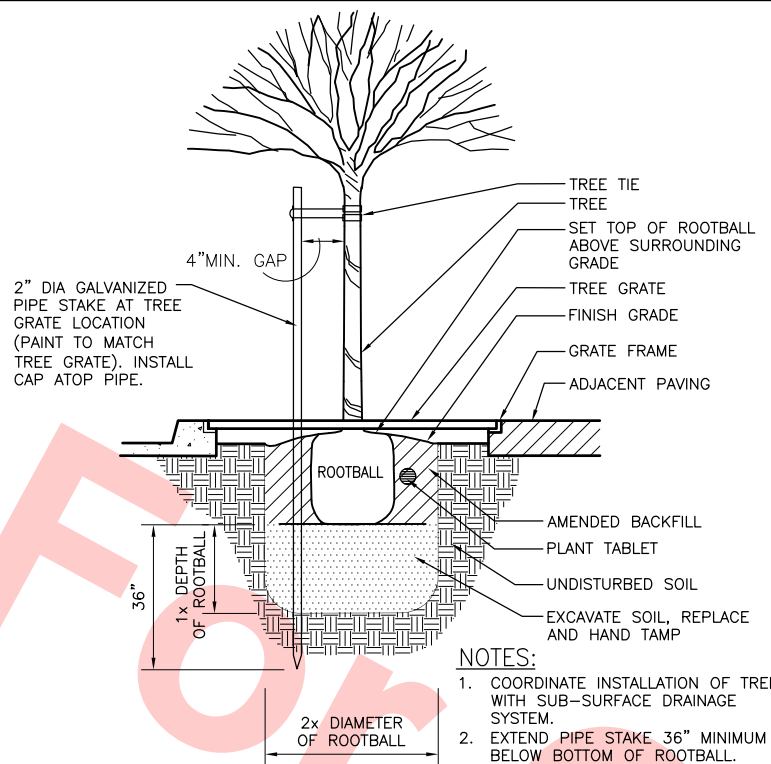


Skanska
Shimmick
Herzog
1436 California Circle
Milpitas, California 95035
A Joint Venture
Anil Verma Associates, Inc.
1970 Broadway, Suite 525
Oakland, CA 94612
Phone: (510) 835-2537 Fax: (510) 535-2339

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

BART
SILICON VALLEY
BART SILICON VALLEY BERRYESSA EXTENSION

LINE, TRACK, STATIONS AND SYSTEMS DESIGN UNIT 023 MILPITAS STATION PLANTING DETAILS	CADD FILENAME C700-S-DB-L451.dwg
SIZE SCALE D AS NOTED	CONTRACT NO. C700
AREA CODE DB	SHEET NO. L451
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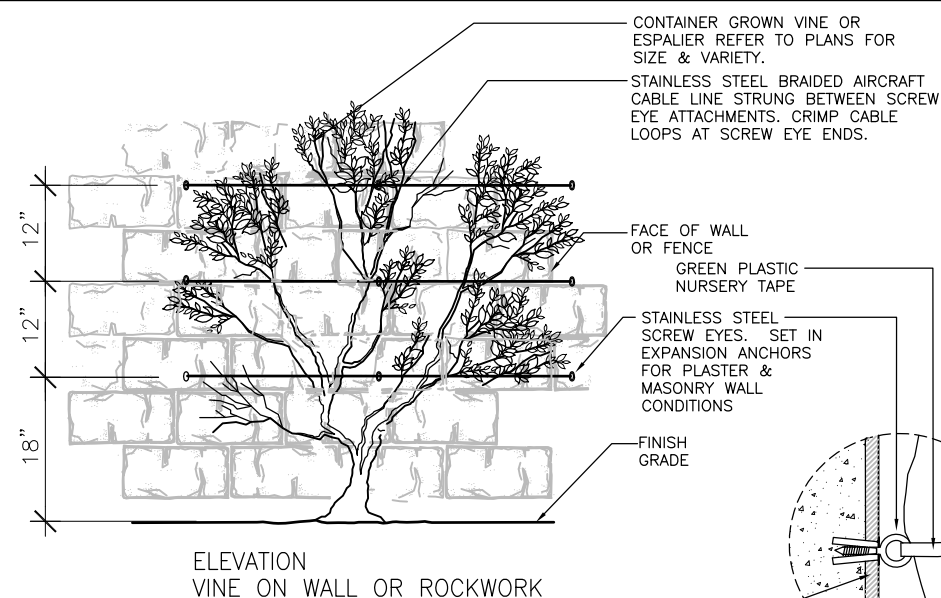


DETAIL

TREE PLANTING / STAKING AT TREE GRATE
NOT TO SCALE

2

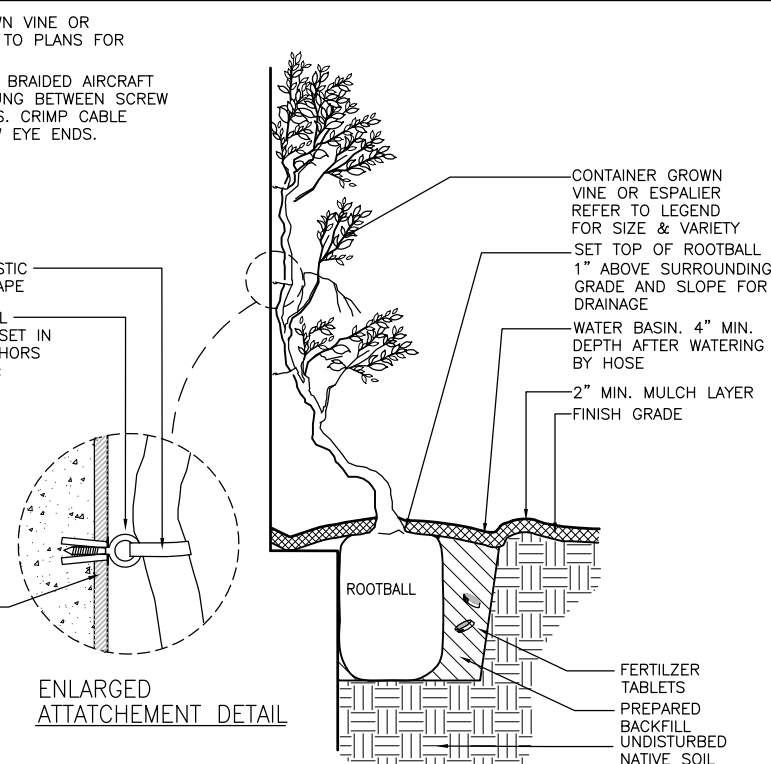
DB-L452
DB-L401
THRU
DB-L404



1. SET ROOTBALL AS CLOSE TO BACK EDGE OF PLANTING PIT AS POSSIBLE
2. REMOVE ALL NURSERY STAKES AND TIES
3. SPREAD BRANCHES OF VINE ONTO WALL OR FENCE AND ATTACH TO AS DETAILED.
4. WRAP VINE BRANCHES AROUND POSTS OR COLUMNS AND SPREAD ACROSS LATTICE IF APPLICABLE
5. REFER TO ARCHITECTURAL DRAWINGS FOR GREEN SCREEN / ATTACHMENTS WHERE OCCURS

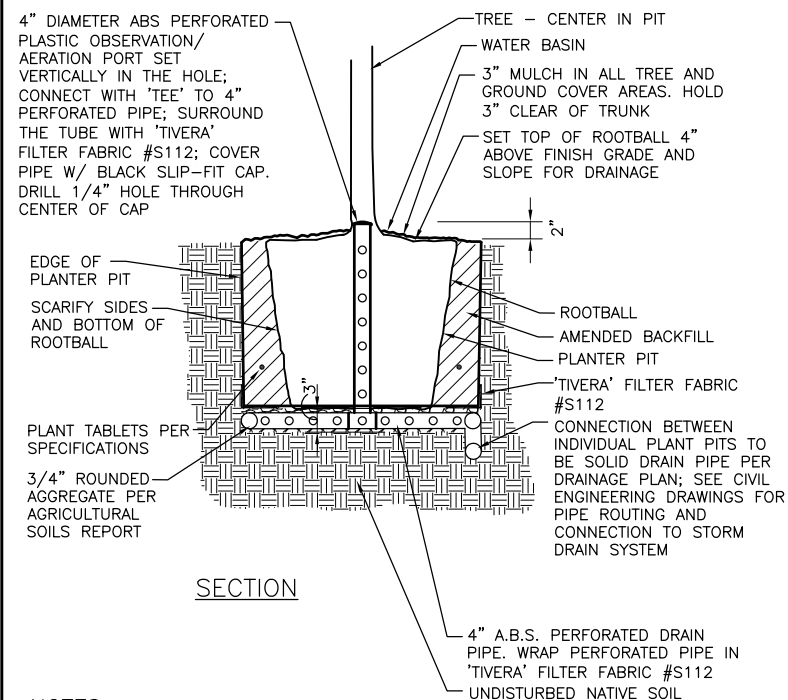
DETAIL

VINE PLANTING ON WALL / FENCE
NOT TO SCALE



ENLARGED
ATTACHEMENT DETAIL

SECTION
VINE ON POST OR TRELLIS

SECTION

NOTES:

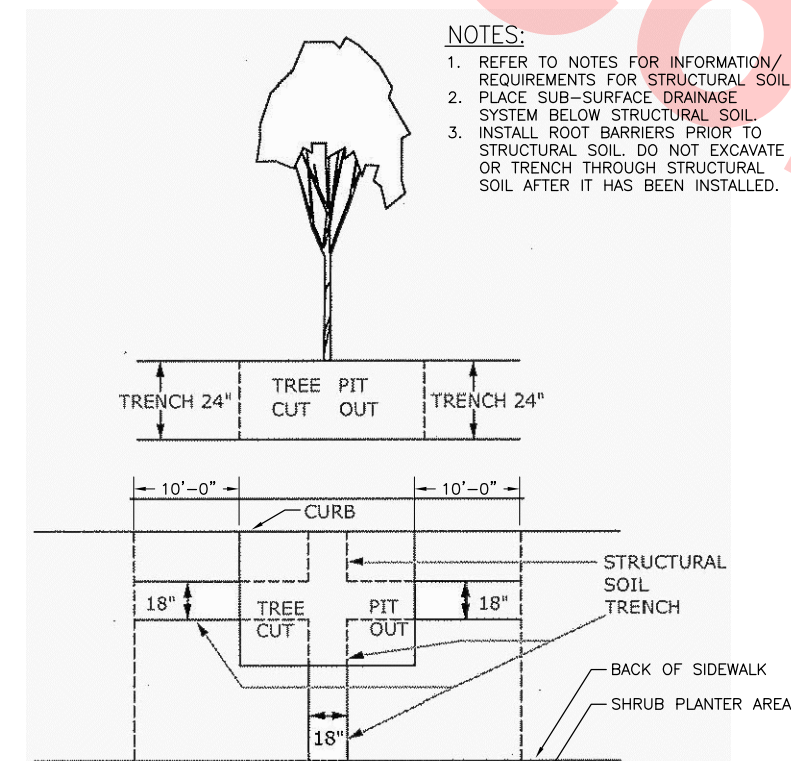
1. COORDINATE INSTALLATION OF TREE STAKES WITH INSTALLATION OF SUB-SURFACE DRAINAGE SYSTEM.

DETAIL

TREE PLANTING WITH SUB-SURFACE DRAINAGE
NOT TO SCALE

1

DB-L452
DB-L401
THRU
DB-L404

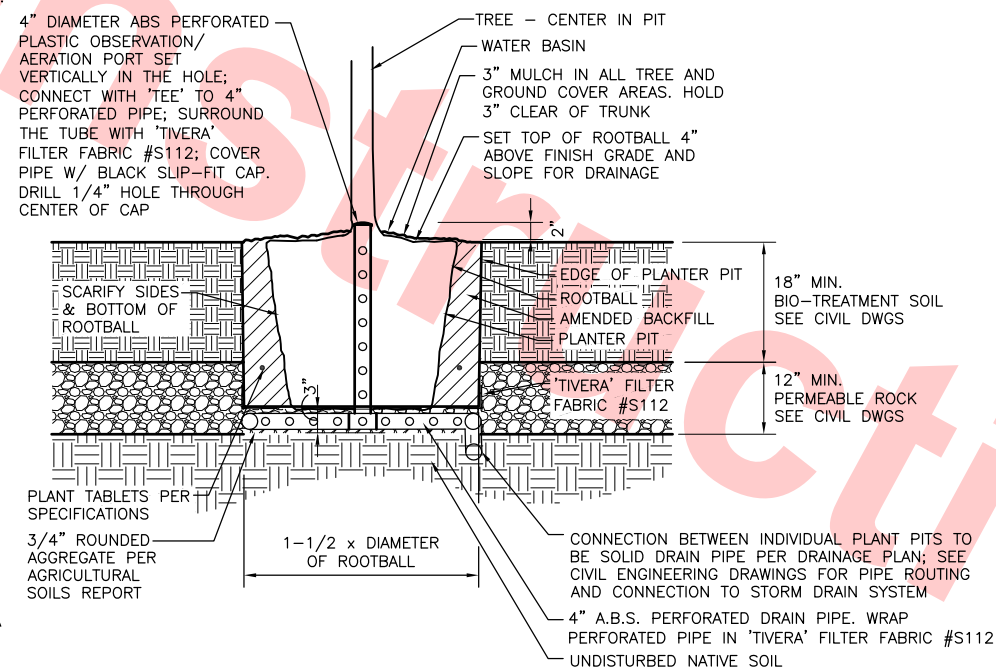


DETAIL

STRUCTURAL SOIL
NOT TO SCALE

4

DB-L452 DB-L401



SECTION

DETAIL

TREE PLANTING AT BIO-RETENTION AREA
NOT TO SCALE

5

DB-L452
DB-L401
THRU
DB-L404

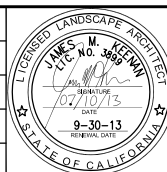
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O	20130710				READINESS FOR CONSTRUCTION
REV	DATE	BY	SUB	APP	DESCRIPTION

DESIGNED BY J KEENAN
DRAWN BY B HANSON
CHECKED BY W ARATA
IN CHARGE R BARLAAN
DATE 20130710



Skanska
Shimmick
Herzog

 **Anil Verma Associates, Inc.**
1970 Broadway, Suite 525
Phone: (510) 535-2537 Fax: (510) 535-2339
Oakland, CA 94612

SUBMITTED

1436 California Circle
Milpitas, California 95035
A Joint Venture

LAN **Lockwood, Andrews
& Newnam, Inc.**
A LEQ A BAY COMPANY

T-Y-LIN INTERNATIONAL

APPROVED *[Signature]*



BART SILICON VALLEY BERRYESSA EXTENSION

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

SHEET 2 OF 2

CADD FILENAME C700-S-DB-L452.dwg		
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CONTRACT NO. C700		REV. 0
AREA CODE DB	SHEET NO. L452	PAGE NO. 0132

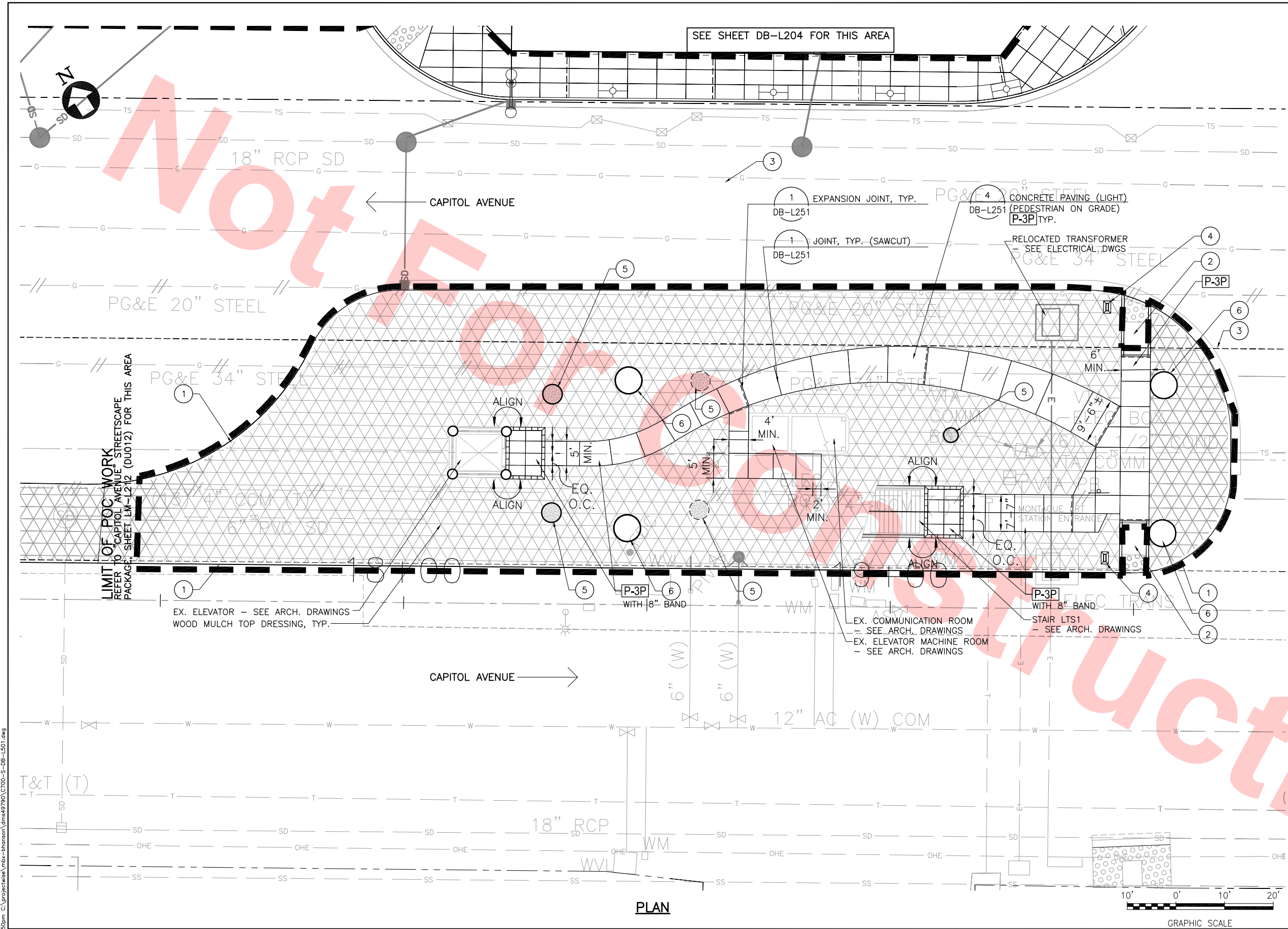
Santa Clara Valley Transportation Authority

____ NO EXCEPTIONS TAKEN (NET)
____ MAKE CORRECTIONS NOTED (MCN)
____ AMEND AND RESUBMIT (A/R)

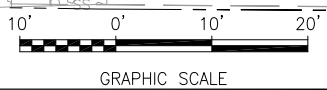
Any action shown above is subject to the terms of the contract and does not relieve the Contractor of any of its obligations under the contract, including design and detailing.

Contract No.: DB11002F

By: _____ Date: _____



PLAN



MATERIAL REFERENCES

REFER TO DRAWING DB-L002 FOR FULL MATERIAL SCHEDULE / LEGEND & DETAIL REFERENCES

P-X PAVING NOTE. REFER TO 'PAVING SCHEDULE'

W-X WALL NOTE. REFER TO 'WALL SCHEDULE'

F-X FENCE/RAIL NOTE. REFER TO 'FENCE/RAIL SCHEDULE'

G-X GATE NOTE. REFER TO 'GATE SCHEDULE'

M-X MISCELLANEOUS CONSTRUCTION NOTE. REFER TO 'CONSTRUCTION NOTE REFERENCE'

COORDINATION NOTES

THESE NOTES ARE FOR COORDINATION PURPOSES ONLY AND SPECIFIC TO THE MONTAGUE LRT AND MILPITAS POC

SYMBOL	DESCRIPTION
1	CONCRETE CURB - REFER TO E. CAPITOL AVE. CIVIL DRAWINGS PACKAGE (DU012)
2	CURB RAMP - REFER TO E. CAPITOL AVE. CIVIL DRAWINGS PACKAGE (DU012)
3	PEDESTRIAN OVERCROSSING SEE ARCH. DWGS
4	RELOCATED SIGNAGE PYLON. PROVIDE 6" CONCRETE BAND AT BASE
5	LRT COLUMN SEE STRUCTURAL DRAWINGS
6	EX. GUIDEWAY SUPPORT COLUMN
⊙	PEDESTRIAN POLE LIGHT FIXTURE SEE ELECTRICAL DWGS

LEGEND

PA	PLANTING AREA
	UNFINISHED GRADE - 'DIRT'
	ALIGN EDGES

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: _____

NOTES

- SEE CIVIL DRAWINGS FOR CURB RAMPS.
- SEE CIVIL AND ARCHITECT DRAWINGS FOR SITE SIGNAGE.
- SEE ELECTRICAL DRAWINGS FOR SITE LIGHT FIXTURE SELECTION.

CADD FILENAME C700-S-DB-L501.dwg	
SIZE D	SCALE 1"=10'-0"
CONTRACT NO. C700	REV. 0
AREA CODE DB	SHEET NO. L501
PAGE NO. 0133	

0 REV	20130710 DATE	BY	SUB	APP	READINESS FOR CONSTRUCTION DESCRIPTION	DESIGNED BY W. ARATA		Skanska Shimmick Herzog	1436 California Circle Milpitas, California 95035 A Joint Venture		Anil Verma Associates, Inc. 1970 Broadway, Suite 525 Oakland, CA 94612 Phone: (510) 835-2537 Fax: (510) 535-2339		Lookwood, 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 MONTAGUE LRT AND MILPITAS POC LAYOUT PLAN - HARDSCAPE			
						SUBMITTED												APPROVED		

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