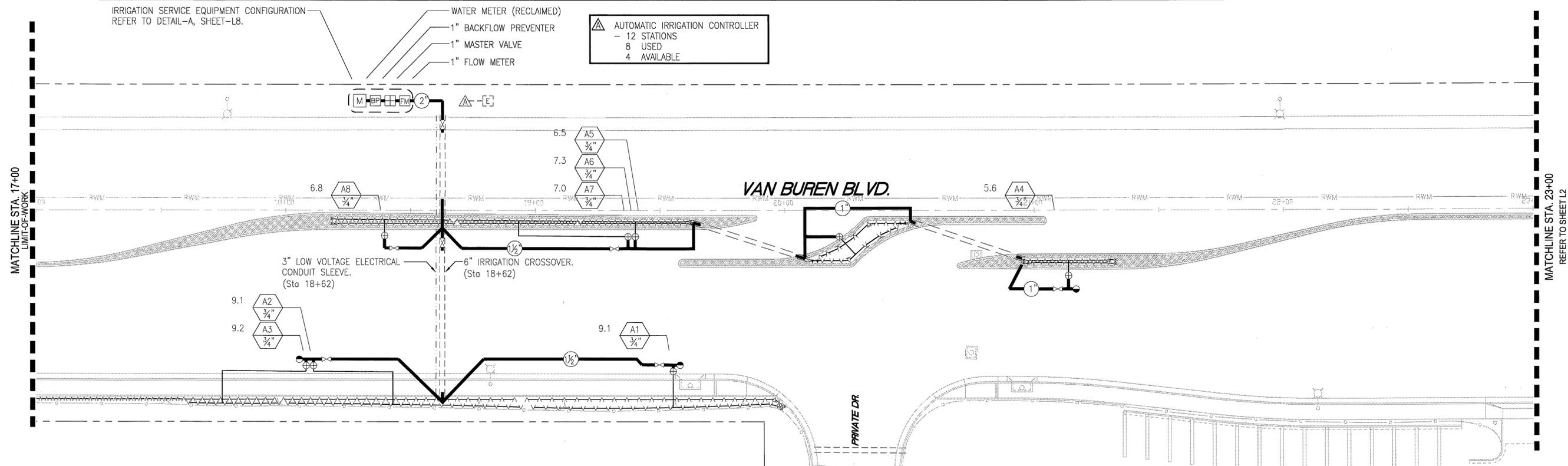


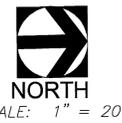
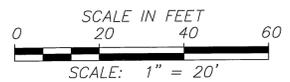
WORSE CASE PRESSURE CALCULATIONS FOR CONTROLLER 'A'		WORSE CASE PRESSURE CALCULATIONS FOR CONTROLLER 'B'		WORSE CASE PRESSURE CALCULATIONS FOR CONTROLLER 'C'		WORSE CASE PRESSURE CALCULATIONS FOR CONTROLLER 'D'		WORSE CASE PRESSURE CALCULATIONS FOR CONTROLLER 'E'	
9.2 GPM @ STA. A3		34.2 GPM @ STA. B18		36.2 GPM @ STA. C5		34.9 GPM @ STA. D9		35.6 GPM @ STA. E12	
1" WATER METER	0.6 P.S.I.	2" WATER METER	1.0 P.S.I.	2" WATER METER	1.0 P.S.I.	2" WATER METER	1.0 P.S.I.	2" WATER METER	0.6 P.S.I.
1" BACKFLOW PREVENTOR	11.0 P.S.I.	2" BACKFLOW PREVENTOR	12.0 P.S.I.						
1" FLOW METER	0.5 P.S.I.	2" FLOW METER	3.0 P.S.I.						
1" MASTER VALVE	0.75 P.S.I.	2" MASTER VALVE	0.5 P.S.I.	2" MASTER VALVE	0.5 P.S.I.	2" MASTER VALVE	0.5 P.S.I.	2" MASTER VALVE	0.5 P.S.I.
188' OF 2" MAIN LINE	1.8 P.S.I.	615' OF 2" MAIN LINE	21.0 P.S.I.	170' OF 2" MAIN LINE	6.0 P.S.I.	345' OF 2" MAIN LINE	12.1 P.S.I.	272' OF 2" MAIN LINE	9.5 P.S.I.
3/4" CONTROL VALVE	1.75 P.S.I.	2" CONTROL VALVE	0.5 P.S.I.	2" CONTROL VALVE	0.5 P.S.I.	2" CONTROL VALVE	0.5 P.S.I.	2" CONTROL VALVE	0.5 P.S.I.
182' OF LATERAL LINE	6.8 P.S.I.	145' OF LATERAL LINE	2.9 P.S.I.	45' OF LATERAL LINE	1.6 P.S.I.	83' OF LATERAL LINE	2.7 P.S.I.	107' OF LATERAL LINE	3.6 P.S.I.
MISC. FITTINGS & RISERS (20%)	4.4 P.S.I.	MISC. FITTINGS & RISERS (20%)	2.3 P.S.I.	MISC. FITTINGS & RISERS (20%)	4.4 P.S.I.	MISC. FITTINGS & RISERS (20%)	5.8 P.S.I.	MISC. FITTINGS & RISERS (20%)	5.9 P.S.I.
TOTAL PSI LOSS:	27.6 P.S.I.	TOTAL PSI LOSS:	46.1 P.S.I.	TOTAL PSI LOSS:	26.6 P.S.I.	TOTAL PSI LOSS:	35.1 P.S.I.	TOTAL PSI LOSS:	35.6 P.S.I.
PSI REQUIRED @ HEAD	30.0 P.S.I.								
TOTAL PSI REQUIRED @ POC:	57.6 P.S.I.	TOTAL PSI REQUIRED @ POC:	76.1 P.S.I.	TOTAL PSI REQUIRED @ POC:	56.6 P.S.I.	TOTAL PSI REQUIRED @ POC:	65.1 P.S.I.	TOTAL PSI REQUIRED @ POC:	65.6 P.S.I.
EXISTING PRESSURE RESIDUAL	97.0 P.S.I.	EXISTING PRESSURE RESIDUAL	20.9 P.S.I.	EXISTING PRESSURE RESIDUAL	97.0 P.S.I.	EXISTING PRESSURE RESIDUAL	31.9 P.S.I.	EXISTING PRESSURE RESIDUAL	31.4 P.S.I.
PRESSURE REGULATOR SET @:	60.0 P.S.I.	PRESSURE REGULATOR SET @:	80.0 P.S.I.	PRESSURE REGULATOR SET @:	60.0 P.S.I.	PRESSURE REGULATOR SET @:	70.0 P.S.I.	PRESSURE REGULATOR SET @:	70.0 P.S.I.



**NOTE TO CONTRACTOR:**  
REFER TO SHEET L8 FOR IRRIGATION LEGEND, NOTES AND DETAILS.

**TECHNICAL SPECIFICATIONS:**  
CONTRACTOR SHALL REFERENCE CITY OF RIVERSIDE TECHNICAL SPECIFICATIONS SECTION 02441-IRRIGATION & SECTION 02483-PUBLIC LANDSCAPE PLANTING FOR ADDITIONAL GUIDANCE.

**NOTE TO CONTRACTOR (AUTOMATIC CONTROL VALVES):**  
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NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.

Don't Dig...Until You Call U.S.A. Toll Free 811 FOR THE LOCATION OF BURIED UTILITY LINES. DON'T DISRUPT VITAL SERVICES. TWO WORKING DAYS BEFORE YOU DIG

**NOTE TO CONTRACTOR:**  
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**BENCHMARK NO. : G3-V3**  
ELEV.: 732.825  
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
LANDSCAPE ARCHITECTS  
2895 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2500  
UNDER THE DIRECT SUPERVISION OF:  
LYNN CAPOUYA, RLA # 2314, EXP 12/31/10



MARK	REVISIONS	APPR.	DATE

**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER			
CONSTRUCTION ADMIN.			
SURVEYOR			
STREET SERVICES			
TRAFFIC ENGINEER			
LANDSCAPING			

**VAN BUREN BOULEVARD**  
**WIDENING**  
**IRRIGATION PLAN**

HORIZ. SCALE: 1" = 20'

ADCT. NO.: W.D. NO. 0501889  
**R-3965L**  
SHEET **L1** OF **17**

ASBUILT

MATCHLINE STA. 23+00  
REFER TO SHEET L1

**TECHNICAL SPECIFICATIONS:**  
CONTRACTOR SHALL REFERENCE CITY OF RIVERSIDE  
TECHNICAL SPECIFICATIONS SECTION 02441-IRRIGATION &  
SECTION 02483-PUBLIC LANDSCAPE PLANTING FOR  
ADDITIONAL GUIDANCE.

**NOTE TO CONTRACTOR (AUTOMATIC CONTROL VALVES):**  
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CLARITY ONLY. CONTRACTOR SHALL INSTALL VALVES  
'IN-LINE' CONSISTENT WITH DIRECTION FROM  
THE CITY OF RIVERSIDE FIELD REPRESENTATIVES.

ARLINGTON AVE

VAN BUREN BLVD.

MATCHLINE STA. 29+00  
SEE LOWER LEFT



NORTH  
SCALE: 1" = 20'

MATCHLINE STA. 29+00  
SEE UPPER RIGHT

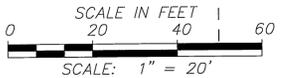
VAN BUREN BLVD.

MATCHLINE STA. 35+00  
REFER TO SHEET L3



NORTH  
SCALE: 1" = 20'

**NOTE TO CONTRACTOR:**  
REFER TO SHEET L8 FOR IRRIGATION LEGEND, NOTES  
AND DETAILS.



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UTILITY LINES.  
DON'T DISRUPT  
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PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES  
SHALL BE REPAIRED AT NO ADDITIONAL COST.

**BENCHMARK NO. : G3-V3**  
ELEV.: 732.825  
P.K. NAIL & CITY ENGINEER TAG IN THE  
NORTHERLY CURB OF ARLINGTON AVENUE,  
APPROXIMATELY 8 FEET EASTERLY OF THE  
CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
LANDSCAPE ARCHITECTS  
2995 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2500  
UNDER THE DIRECT SUPERVISION OF:  
LYNN CAPOUYA, RLA # 2314, EXP 12/31/10



MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY

**VAN BUREN BOULEVARD  
WIDENING  
IRRIGATION PLAN**

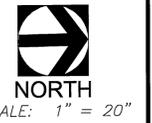
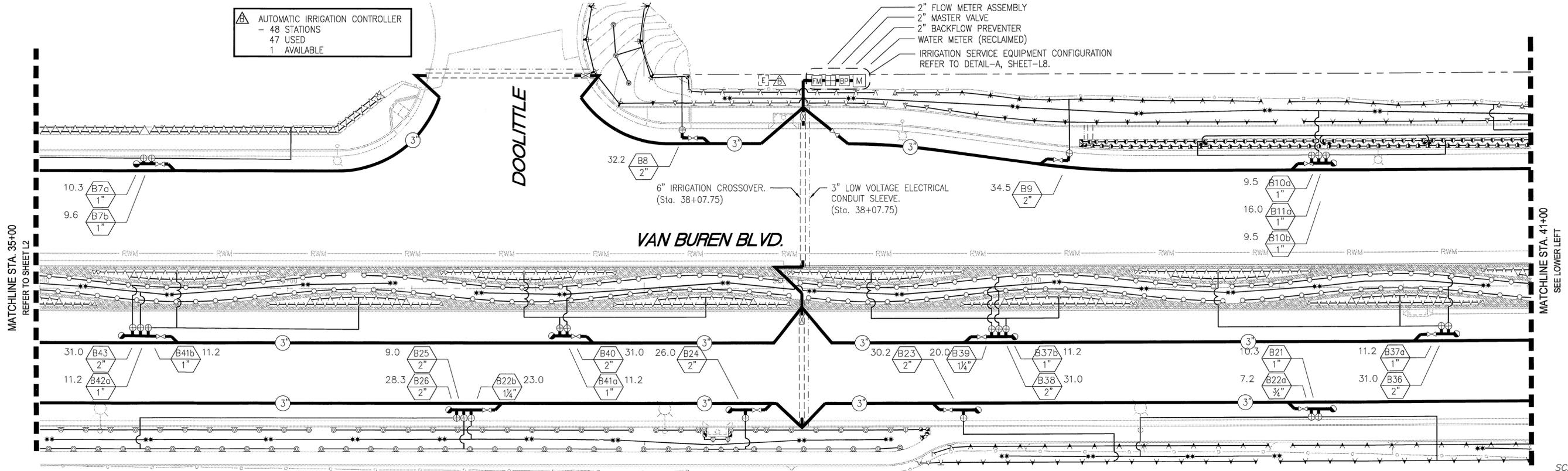
HORIZ. SCALE: 1" = 20'

ACCT. NO.: W.O. NO. 0501889  
**R-3965L**  
SHEET **L2** OF **17**

AS BUILT

**△ AUTOMATIC IRRIGATION CONTROLLER**  
 - 48 STATIONS  
 - 47 USED  
 - 1 AVAILABLE

2" FLOW METER ASSEMBLY  
 2" MASTER VALVE  
 2" BACKFLOW PREVENTER  
 WATER METER (RECLAIMED)  
 IRRIGATION SERVICE EQUIPMENT CONFIGURATION  
 REFER TO DETAIL-A, SHEET-LB.



**NOTE TO CONTRACTOR:**  
 REFER TO SHEET LB FOR IRRIGATION LEGEND, NOTES AND DETAILS.

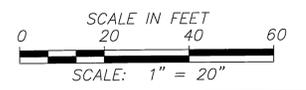
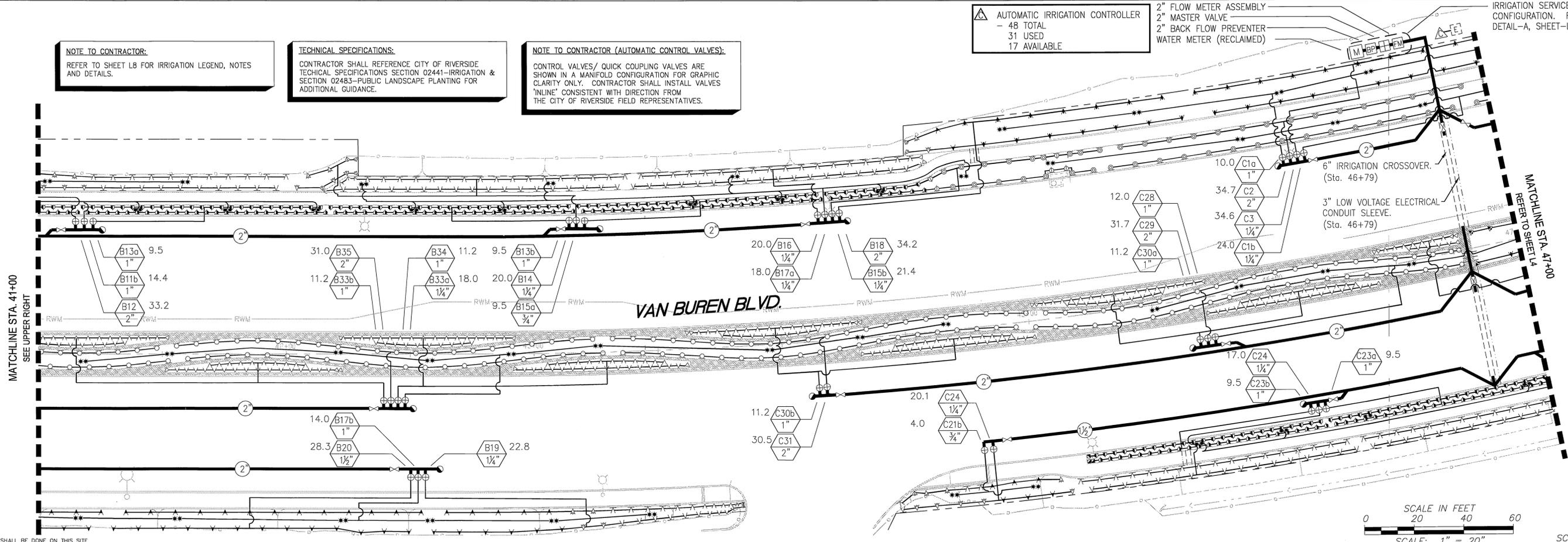
**TECHNICAL SPECIFICATIONS:**  
 CONTRACTOR SHALL REFERENCE CITY OF RIVERSIDE TECHNICAL SPECIFICATIONS SECTION 02441-IRRIGATION & SECTION 02483-PUBLIC LANDSCAPE PLANTING FOR ADDITIONAL GUIDANCE.

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**△ AUTOMATIC IRRIGATION CONTROLLER**  
 - 48 TOTAL  
 - 31 USED  
 - 17 AVAILABLE

2" FLOW METER ASSEMBLY  
 2" MASTER VALVE  
 2" BACK FLOW PREVENTER  
 WATER METER (RECLAIMED)

IRRIGATION SERVICE EQUIPMENT CONFIGURATION. REFER TO DETAIL-A, SHEET-LB.



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**BENCHMARK NO. : G3-V3**  
 ELEV.: 732.825  
 P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
 LANDSCAPE ARCHITECTS  
 2995 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2500  
 UNDER THE DIRECT SUPERVISION OF:  
 LYNN CAPOUYA, RLA # 2314, EXP 12/31/10  
 DATE DEC. 23, 2008

MARK	REVISIONS	APPR.	DATE

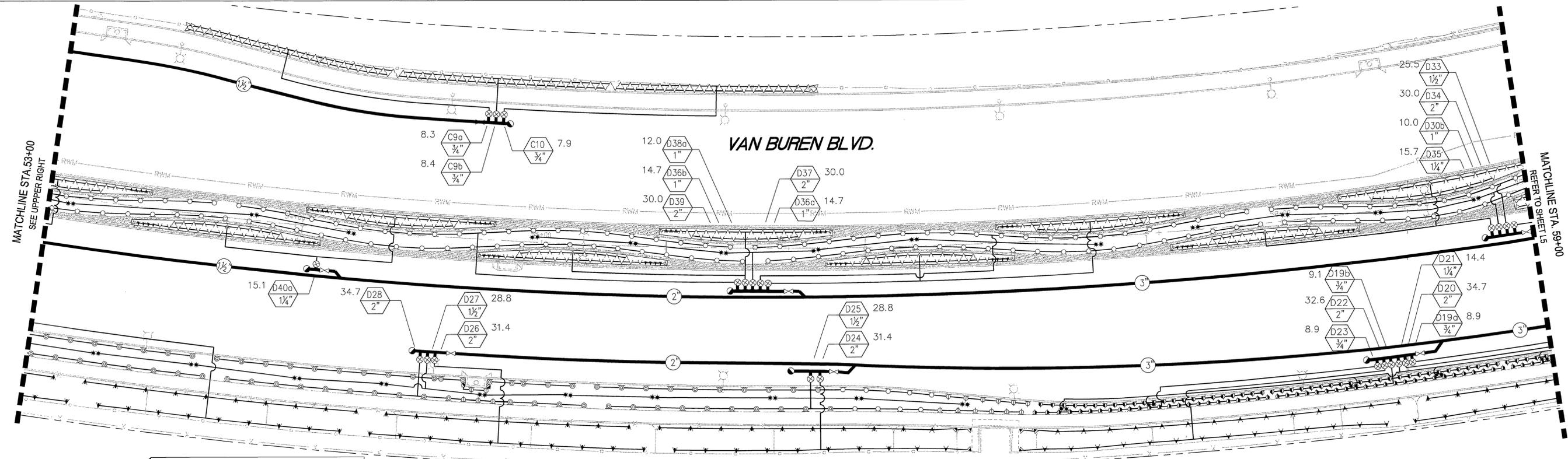
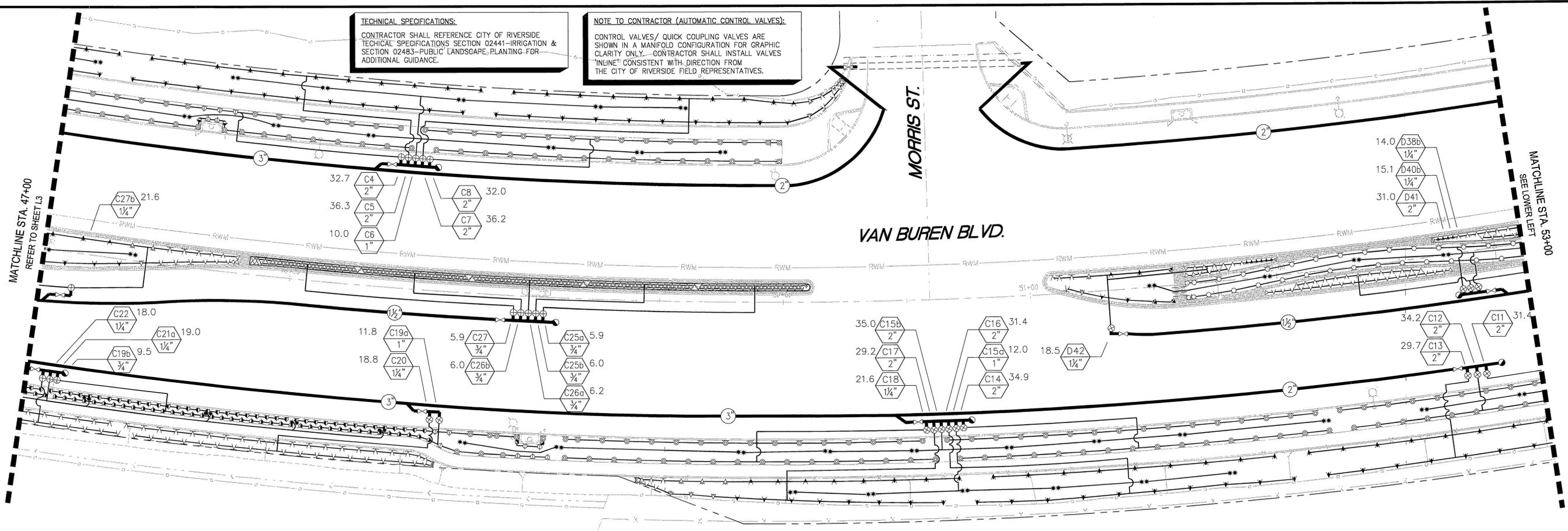
**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**  
 APPROVED BY: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINCIPAL ENGINEER  
 CONSTRUCTION ADMN.  
 SUPERVISOR  
 STREET SERVICES  
 TRAFFIC ENGINEER  
 LANDSCAPING

**VAN BUREN BOULEVARD**  
**WIDENING**  
**IRRIGATION PLAN**  
 HORIZ. SCALE: 1" = 20'

ACC. NO.: W.O. NO. 0501889  
**R-3965L**  
 SHEET **L3** OF **17**

**TECHNICAL SPECIFICATIONS:**  
 CONTRACTOR SHALL REFERENCE CITY OF RIVERSIDE  
 TECHNICAL SPECIFICATIONS SECTION 02441-IRRIGATION &  
 SECTION 02483-PUBLIC LANDSCAPE, PLANTING FOR  
 ADDITIONAL GUIDANCE.

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 CLARITY ONLY. CONTRACTOR SHALL INSTALL VALVES  
 "INLINE" CONSISTENT WITH DIRECTION FROM  
 THE CITY OF RIVERSIDE FIELD REPRESENTATIVES.



**NOTE TO CONTRACTOR:**  
 REFER TO SHEET L8 FOR IRRIGATION LEGEND, NOTES  
 AND DETAILS.

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 EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND  
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 SHALL BE REPAIRED AT NO ADDITIONAL COST.

**BENCHMARK NO. : G3-V3**  
 ELEV.: 732.825  
 P.K. MAIL & CITY ENGINEER TAG IN THE  
 NORTHERLY CURB OF ARLINGTON AVENUE,  
 APPROXIMATELY 8 FEET EASTERLY OF THE  
 CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
 LANDSCAPE ARCHITECTS  
 2995 AIRWAY AVENUE • COSTA MESA, CA. 92626 • (714) 556-2500  
 UNDER THE DIRECT SUPERVISION OF:  
 LYNN CAPOUYA, RLA # 2314, EXP 12/31/10



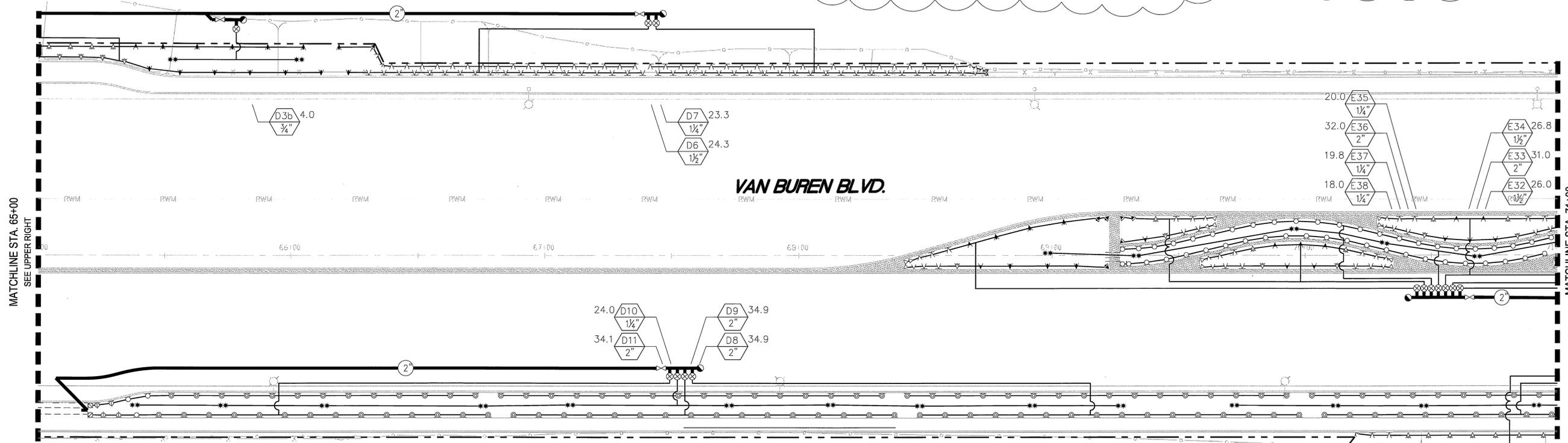
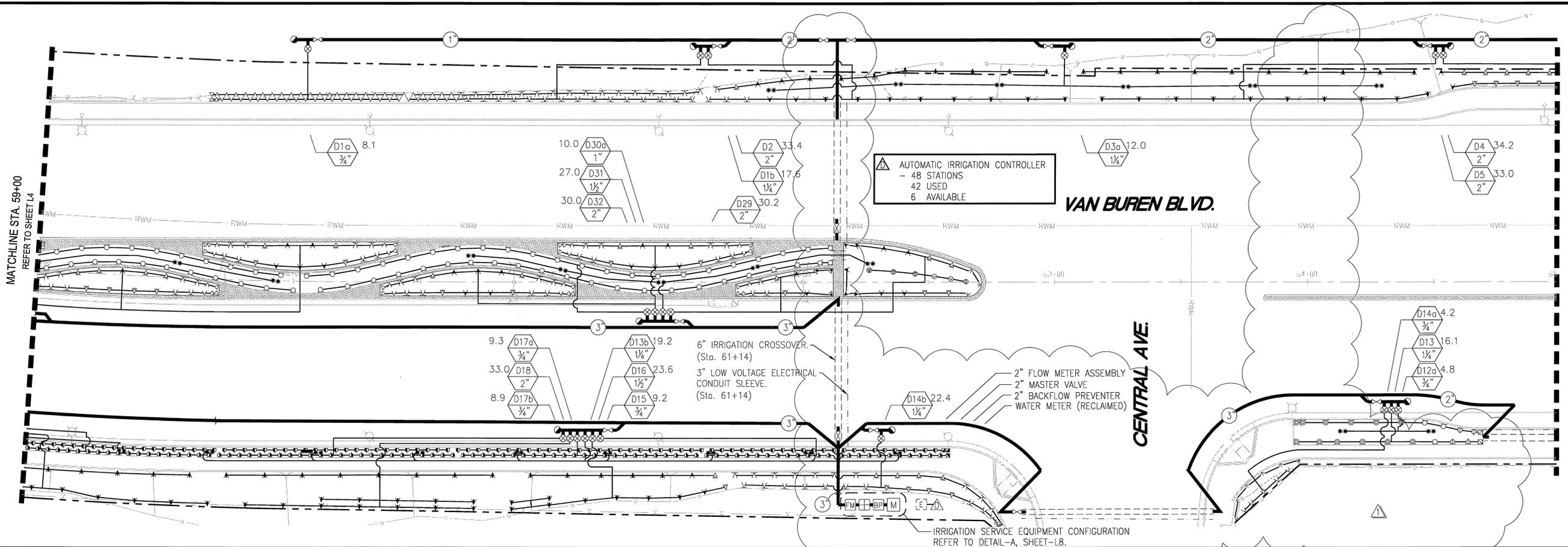
MARK	REVISIONS	APPR.	DATE

**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**  
 APPROVED BY: [Signature] DATE: [Date]  
 PRINCIPAL ENGINEER  
 CONSTRUCTION ADMIN.  
 SURVEYOR  
 STREET SERVICES  
 TRAFFIC ENGINEER  
 LANDSCAPING

**VAN BUREN BOULEVARD**  
**WIDENING**  
**IRRIGATION PLAN**  
 ACCT. NO.: W.O. NO. 0501889  
 R-3965L  
 SHEET L4 OF 17  
 HORIZ. SCALE: 1" = 20'

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 FOR THE LOCATION  
 OF BURIED  
 UTILITY LINES.  
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 VITAL SERVICES.  
 TWO WORKING DAYS BEFORE YOU DIG

**AS BUILT**



MATCHLINE STA. 65+00  
SEE LOWER LEFT

MATCHLINE STA. 71+00  
REFER TO SHEET L6



**NOTE TO CONTRACTOR:**  
REFER TO SHEET L8 FOR IRRIGATION LEGEND, NOTES AND DETAILS.

**TECHNICAL SPECIFICATIONS:**  
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**BENCHMARK NO. : G3-V3**  
ELEV.: 732.825  
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
LANDSCAPE ARCHITECTS  
2995 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2200  
UNDER THE DIRECT SUPERVISION OF:  
LYNN CAPOUYA, RLA # 2314, EXP 12/31/10  
DATE DEC. 23, 2008

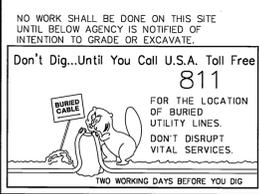


CITY APPROVED CONSTRUCTION ADDENDUM		3-17-09
MARK	REVISIONS	APPR. DATE
DESIGNED BY	T.M.	DRAWN BY
DRAWN BY	S.G.	CHECKED BY
CHECKED BY	T.M.	

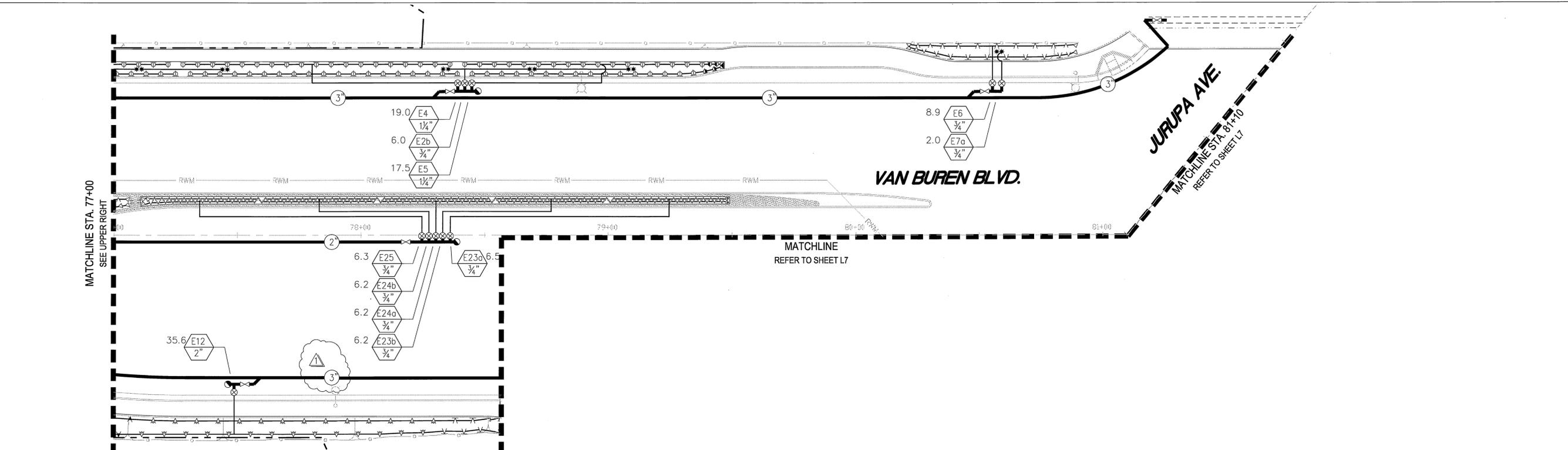
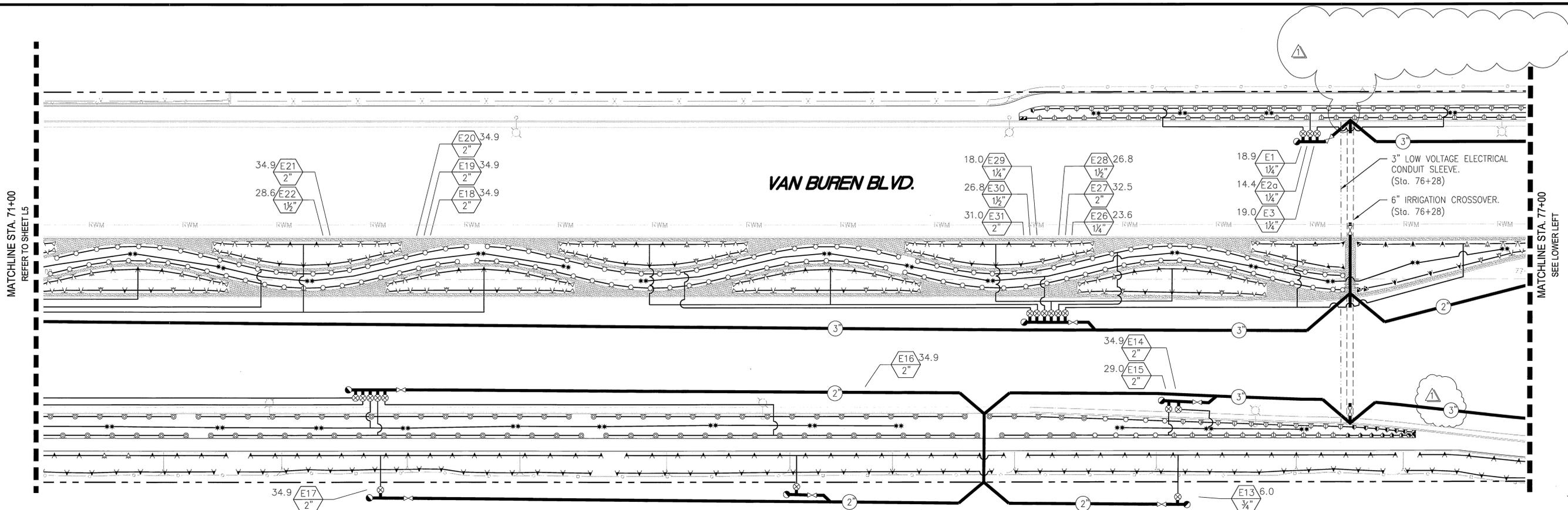
CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT  
APPROVED BY: [Signature] DATE: [ ]  
CONSTRUCTION ADMIN. [Signature]  
SURVEYOR [Signature]  
STREET SERVICES [Signature]  
TRAFFIC ENGINEER [Signature]  
LANDSCAPING [Signature]

**VAN BUREN BOULEVARD  
WIDENING  
IRRIGATION PLAN**  
HORIZ. SCALE: 1" = 20'

ACCT. NO.: W.O. NO. 0501889  
**R-3965L**  
SHEET **L5** OF 17



AS BUILT



**NOTE TO CONTRACTOR:**  
REFER TO SHEET L8 FOR IRRIGATION LEGEND, NOTES AND DETAILS.

**TECHNICAL SPECIFICATIONS:**  
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ELEV.: 732.825  
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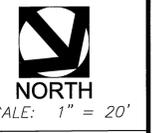
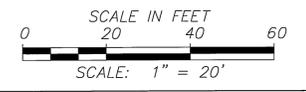
PLANS PREPARED BY:  
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DATE DEC. 23, 2008



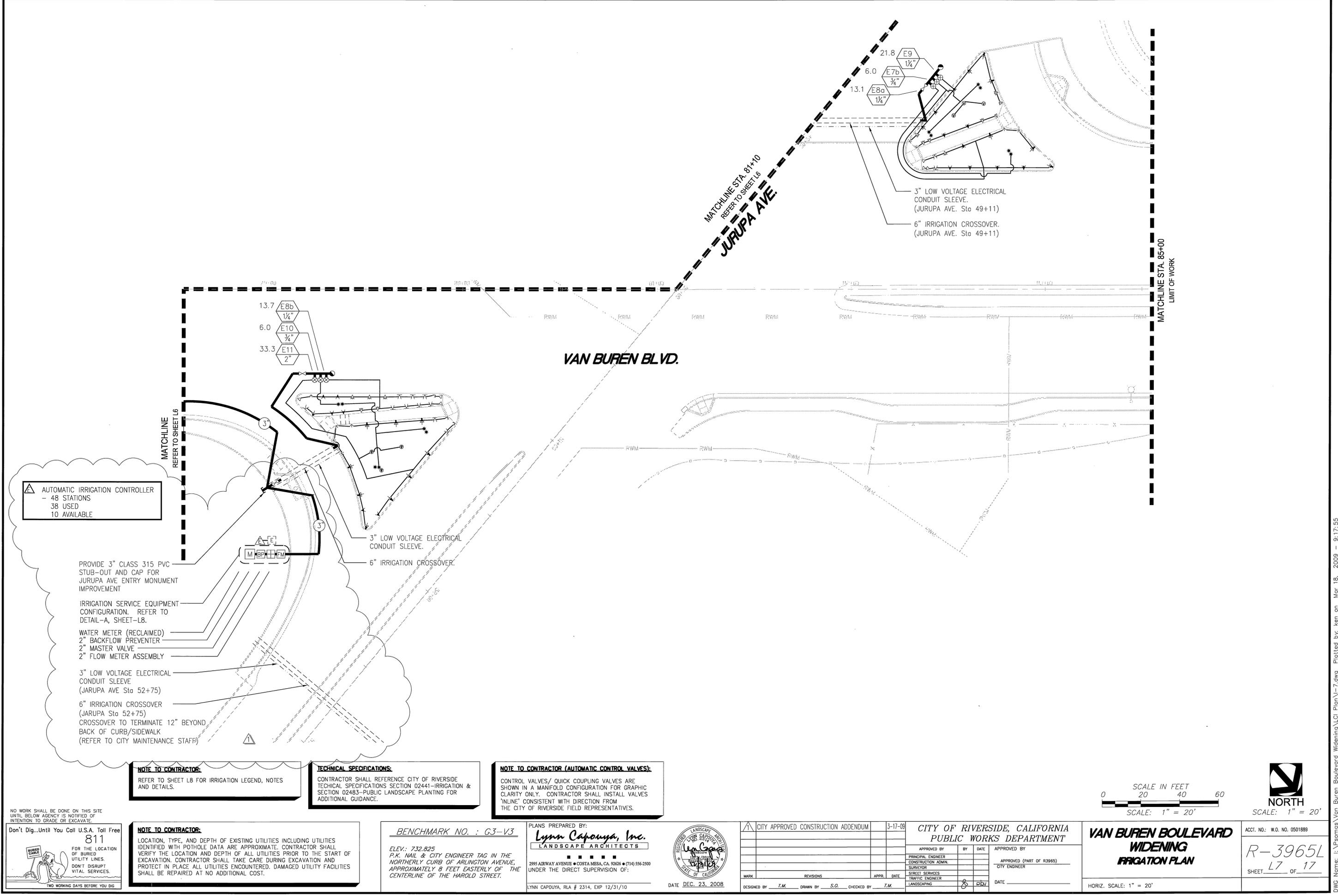
MARK	REVISIONS	APPR.	DATE

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

**VAN BUREN BOULEVARD WIDENING IRRIGATION PLAN**  
ACCT. NO.: W.O. NO. 0501889  
R-3965L  
SHEET 16 OF 17  
HORIZ. SCALE: 1" = 20'



ASBUILT



**AUTOMATIC IRRIGATION CONTROLLER**  
 - 48 STATIONS  
 38 USED  
 10 AVAILABLE

- PROVIDE 3" CLASS 315 PVC STUB-OUT AND CAP FOR JURUPA AVE ENTRY MONUMENT IMPROVEMENT
- IRRIGATION SERVICE EQUIPMENT CONFIGURATION. REFER TO DETAIL-A, SHEET-L8.
- WATER METER (RECLAIMED)
- 2" BACKFLOW PREVENTER
- 2" MASTER VALVE
- 2" FLOW METER ASSEMBLY
- 3" LOW VOLTAGE ELECTRICAL CONDUIT SLEEVE (JARUPA AVE Sto 52+75)
- 6" IRRIGATION CROSSOVER (JARUPA Sto 52+75)
- CROSSOVER TO TERMINATE 12" BEYOND BACK OF CURB/SIDEWALK (REFER TO CITY MAINTENANCE STAFF)

**NOTE TO CONTRACTOR:**  
 REFER TO SHEET L8 FOR IRRIGATION LEGEND, NOTES AND DETAILS.

**TECHNICAL SPECIFICATIONS:**  
 CONTRACTOR SHALL REFERENCE CITY OF RIVERSIDE TECHNICAL SPECIFICATIONS SECTION 02441-IRRIGATION & SECTION 02483-PUBLIC LANDSCAPE PLANTING FOR ADDITIONAL GUIDANCE.

**NOTE TO CONTRACTOR (AUTOMATIC CONTROL VALVES):**  
 CONTROL VALVES/ QUICK COUPLING VALVES ARE SHOWN IN A MANIFOLD CONFIGURATION FOR GRAPHIC CLARITY ONLY. CONTRACTOR SHALL INSTALL VALVES 'IN-LINE' CONSISTENT WITH DIRECTION FROM THE CITY OF RIVERSIDE FIELD REPRESENTATIVES.

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**BENCHMARK NO. : G3-V3**  
 ELEV.: 732.825  
 P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

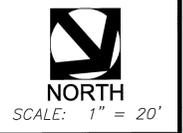
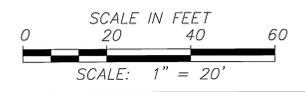
PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
 LANDSCAPE ARCHITECTS  
 2895 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2500  
 UNDER THE DIRECT SUPERVISION OF:  
 LYNN CAPOUYA, RLA # 2314, EXP 12/31/10



CITY APPROVED CONSTRUCTION ADDENDUM		3-17-09
DESIGNED BY	T.M.	DRAWN BY
DRAWN BY	S.O.	CHECKED BY
CHECKED BY	T.M.	DATE

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT	
APPROVED BY	DATE
PRINCIPAL ENGINEER	
CONSTRUCTION ADMIN. SUPERVISOR	
STREET SERVICES	
TRAFFIC ENGINEER	
LANDSCAPING	
DATE	

**VAN BUREN BOULEVARD WIDENING IRRIGATION PLAN**  
 ACCT. NO.: W.O. NO. 0501889  
 SHEET **L7** OF **17**  
 HORIZ. SCALE: 1" = 20'



Don't Dig...Until You Call U.S.A. Toll Free 811  
 FOR THE LOCATION OF BURIED UTILITY LINES. DON'T DISRUPT VITAL SERVICES. TWO WORKING DAYS BEFORE YOU DIG

AS BUILT

DWG Name: I:\Psmc\Van Buren Boulevard Widening\LCI Plan\7.dwg Plotted by: ken on Mar 18, 2009 - 9:17:55

### IRRIGATION LEGEND

SYMBOL		DESCRIPTION		GPM				INFO				
VAN	FULL	1/2	1/4	MANUFACTURE	MODEL NUMBER-NOZZLE #	DESCRIPTION	VAN	FULL	1/2	1/4	RAD	PSI
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-6P-15-E	6" POP-UP TURF	1.34	3.60	1.65	0.85	15'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-12P-15-E	12" POP-UP SHRUB	1.34	3.60	1.65	0.85	15'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-6P-12-E	6" POP-UP TURF	0.99	2.19	1.09	0.50	12'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-12P-12-E	12" POP-UP SHRUB	0.99	2.19	1.09	0.50	12'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-6P-10-E	6" POP-UP TURF	1.20	1.49	0.71	0.40	10'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-12P-10-E	12" POP-UP SHRUB	1.20	1.49	0.71	0.40	10'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-6P-8-E	6" POP-UP TURF	1.00	1.00	0.50	0.24	8'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-12P-8-E	12" POP-UP SHRUB	1.00	1.00	0.50	0.24	8'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-6P-5-E	6" POP-UP TURF	---	0.38	0.19	0.09	5'	30
⊙	⊙	⊙	⊙	TORO	* 570Z-PRX-12P-5-E	12" POP-UP SHRUB	---	---	0.19	0.09	5'	30
▽	▽	▽	▽	RAINBIRD	* 1812-SAM-PRS-XPCN	12" POP-UP SHRUB	---	---	0.20	0.12	2.5'	30
▽	▽	▽	▽	RAINBIRD	* 1812-SAM-PRS-4-VAN-PCS-030	12" POP-UP SHRUB	---	---	0.07	---	2'	30
▽	▽	▽	▽	RAINBIRD	* 1812-SAM-PRS-10Q-PCS-025	12" POP-UP SHRUB	---	---	---	0.11	2'	30
⊙	⊙	⊙	⊙	** RAINBIRD	* 1300A-F	FLOOD BUBBLER	---	2.0	---	---	---	10

### PIPE SIZING NOTES

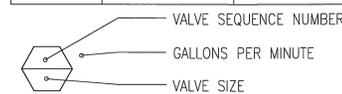
- REFER TO IRRIGATION HEAD LEGEND ON THIS SHEET FOR GPM OF SPRAY HEADS.
- CONTRACTOR TO DETERMINE PIPE SIZING. SEE ADJACENT SIZING CHART.
- ALL LATERAL LINE PIPE DOWNSTREAM OF A 3/4" SIZED PIPE IS ALSO 3/4".

### SIZING CHART

PVC	SYMBOL	GPM
3/4"	—	0-10.0
1"	—	10.1-17.0
1-1/4"	—	17.1-22.0
1-1/2"	—	22.1-38.0
2"	—	38.1-50.0

### PUBLIC LANDSCAPE IRRIGATION LEGEND

SYMBOL	SIZE	MANUFACTURE	MODEL #	DESCRIPTION
[M]	BY OTHERS	---	---	<b>WATER METER:</b> CONTRACTOR TO PROVIDE CONNECTION TO EXISTING RECLAIMED WATER SERVICE
[E]	BY OTHERS	---	---	<b>ELECTRICAL SERVICE METER:</b> CONTRACTOR TO PROVIDE CONNECTION TO AUTOMATIC IRRIGATION CONTROLLER
[BP]	PER PLANS	FEBCO	825 YA	<b>BACKFLOW PREVENTION DEVICE:</b> INSTALLED IN LOCKING STAINLESS STEEL POWDER COATED (GREEN) ENCLOSURE. SIZE PER PLAN
[+]	PER PLANS	SUPERIOR	3100 DWPRS	<b>MASTER VALVE:</b> PRESSURE REGULATING, BRASS OR EQUAL, "NORMALLY OPEN", FOR RECLAIMED WATER. SIZE PER PLAN.
[FM]	PER PLANS	CALSENSE	FM SERIES	<b>FLOW METER FOR RECLAIMED WATER,</b> SIZED PER PLANS. CONTRACTOR TO SET EXCESS FLOW ALARM NOTIFICATION WHEN FLOW EXCEEDS 100 GPM.
[A]	12-STATION	CALSENSE	ET2000e-12	<b>AUTOMATIC IRRIGATION CONTROLLER:</b> ET2000e-12-LR-RRE-TP1-TP110-LR DOME-RRE ANTENNA
[A]	48-STATION	CALSENSE	ET2000e-48	<b>AUTOMATIC IRRIGATION CONTROLLER(S):</b> ET2000e-48-LR-RRE-TP1-TP110-LR DOME-RRE ANTENNA
[X]	LINE SIZE	NIBCO	#T-113-K	<b>BRASS ISOLATION VALVES:</b> FOR RECLAIMED WATER, LINE SIZE
[+]	PER PLANS	SUPERIOR	950-DWPRS	<b>REMOTE CONTROL VALVES:</b> BRASS OR EQUAL FOR RECLAIMED WATER. SIZE NOTED ON PLANS
[●]	1"	RAINBIRD	#44-LRC	<b>QUICK COUPLERS:</b> BRASS OR EQUAL FOR RECLAIMED WATER
—	APPROVED	---	---	<b>MAIN LINE/CONSTANT PRESSURE PIPE:</b> RECLAIMED WATER (PURPLE PIPE). SIZE PER PLAN
—	APPROVED	---	---	<b>LATERAL LINE/INTERMITTENT PIPE:</b> RECLAIMED WATER (PURPLE PIPE). SIZE PER CHART, THIS SHEET.
==	6" MIN	---	---	<b>CROSSOVER/CONDUIT/SLEEVING (PRESSURE MAINLINE):</b> REFER TO CITY OF RIVERSIDE STD DETAIL NO.4012
---	3" MIN	---	---	<b>CROSSOVER/CONDUIT/SLEEVING (LOW VOLTAGE WIRE):</b> REFER TO CITY OF RIVERSIDE STD DETAIL NO.4012
[ ]	LINE SIZE	---	---	<b>CAP (FOR FUTURE MAINLINE EXTENSION)</b>



### TURNOVER ITEMS

MANUFACTURE	MODEL #	DESCRIPTION
CALSENSE	HUB-SSE	<b>CENTRAL CONTROL HUB:</b> HUB-SSE/LR-STICK/NT-PROT/R-FILTER/400 LMR 400 DB CABLE, SPECIFY LENGTH (30 FT). TELEPHONE LINE REQUIRED
CALSENSE	RRE-TRAN	RADIO REMOTE CONTROL

### TECHNICAL SPECIFICATIONS:

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CONTROL VALVES/ QUICK COUPLING VALVES ARE SHOWN IN A MANFOLD CONFIGURATION FOR GRAPHIC CLARITY ONLY. CONTRACTOR SHALL INSTALL VALVES 'INLINE' CONSISTENT WITH DIRECTION FROM THE CITY OF RIVERSIDE FIELD REPRESENTATIVES.

NO WORK SHALL BE DONE ON THIS SITE UNTIL BELOW AGENCY IS NOTIFIED OF INTENTION TO GRADE OR EXCAVATE.



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PLANS PREPARED BY:

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2995 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2500  
UNDER THE DIRECT SUPERVISION OF:

LYNN CAPOUYA, RLA # 2314, EXP 12/31/10

### GENERAL IRRIGATION NOTES:

ALL RELATED WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS FOR PLANTING AND IRRIGATION WORK. (SPECIFICATIONS SECTION 02441 AND DESIGN CRITERIA SECTION 002441).

WATER SERVICE: CONTRACTOR SHALL CONTACT CITY OF RIVERSIDE, PUBLIC UTILITIES WATER AND OBTAIN AND PAY FOR NEW WATER METERS(S) AS NECESSARY TO ADEQUATELY SERVE THE IRRIGATION SYSTEM AS DESIGNED. METER SHALL BE LOCATED IN THE PARKWAY A MINIMUM OF 100' FROM ANY INTERSECTION OR MAJOR DRIVEWAY (CURB RETURN TYPE DRIVEWAY OPENING). CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER COST THROUGHOUT THE MAINTENANCE AND PLANT ESTABLISHMENT PERIOD IF APPLICABLE.

ELECTRIC SERVICE: CONTRACTOR SHALL CONTACT THE CITY OF RIVERSIDE, PUBLIC UTILITIES ELECTRIC DIVISION AND SHALL OBTAIN, AND REMIT COMPENSATION FOR, A NEW "NON-METERED" ELECTRIC SERVICE PEDESTAL AND CONNECTION, AS NECESSARY, TO SERVE THE PROPOSED IRRIGATION CONTROLLER. SERVICE SHALL BE UNDERGROUND TYPE AND SHALL BE COORDINATED WITH THE PROPOSED CONTROLLER LOCATION.

AUTOMATIC IRRIGATION CONTROLLER: THE IRRIGATION CONTROLLER(S) (ONE REQUIRED AT EACH POINT OF CONNECTION) SHALL BE SIZED TO ACCOMMODATE THE NUMBER OF VALVES REQUIRED TO SERVE THE ENTIRE PROJECT AND TO PROVIDE A MINIMUM OF TWO SPARE STATIONS. THE CONTROLLER SHALL BE THE TYPE AND MANUFACTURER AS INDICATED ON THE PLANS. CONTROLLER SHALL BE WEATHERPROOF, PEDESTAL-MOUNT TYPE, INSTALLED WITHIN A LOCKING STAINLESS STEEL ENCLOSURE TO ACCOMMODATE CONTROLLER MANUFACTURE AND CITY OF RIVERSIDE REQUIREMENTS, AND SHALL BE LOCATED MINIMUM OF 100' FROM ANY INTERSECTION OR MAJOR DRIVEWAY (CURB RETURN TYPE DRIVEWAY OPENING).

CONTROLLER: THE CONTROLLER SHALL BE INSTALLED PER THE MANUFACTURE REQUIREMENTS TO OBTAIN INSTALLATION CERTIFICATION. ALL COMPONENTS LISTED WITHIN THESE PLANS SHALL BE INSTALLED TO MANUFACTURE REQUIREMENTS.

SLEEVES: ALL PRESSURE AND LATERAL LINES LOCATED BENEATH THE STREET CROSS SECTION (LINES NOT INSTALLED WITHIN THE LANDSCAPE MEDIAN PLANTING AREAS) SHALL BE INSTALLED IN SLEEVES. SLEEVES SHALL BE INSTALLED IN STRAIGHT LINES (NO TURNS OR BENDS, EITHER VERTICAL OR HORIZONTAL). CONTROLLER WIRES SHALL ALSO BE SLEEVED IN GRAY PVC SCH. 40 PIPE, WITH 12" MINIMUM SEPARATION FROM THE MAINLINE WATER SLEEVE.

CONTROL WIRE: ALL CONTROL WIRE LOCATED UNDER PAVEMENT OF ANY TYPE SHALL BE SEPARATELY SLEEVED. PROVIDE A MINIMUM OF TWO SPARE CONTROL WIRES AT EACH END OF THE PROJECT, STUBBED OUT IN A VALVE BOX WITH THE LID MARKED "SW".

MAIN LINE: PRESSURE SUPPLY LINES 2 INCHES IN DIAMETER AND UP TO 8 INCHES IN DIAMETER SHALL BE EITHER CLASS 315 SOLVENT WELD PVC OR GASKET TYPE PVC. SOLVENT WELD AND RING TYPE PIPE SHALL NOT BE USED TOGETHER ON THE SAME PRESSURE SUPPLY LINE. PRESSURE SUPPLY LINES 1 1/2 INCHES IN DIAMETER AND SMALLER SHALL BE MINIMUM SCHEDULE 40 PVC. SIZE MAINLINE TO KEEP WATER VELOCITY BELOW 5 FEET PER SECOND.

CONTROL VALVES: ALL IRRIGATION CONTROL VALVES SHALL BE BRASS, PRESSURE REGULATING (WATER VALVE NON-REGULATING), SIZED TO PROVIDE THE WATER VOLUME REQUIRED WITH STATIC PRESSURE. INSTALL VALVES IN "INLINE" CONFIGURATION WHERE AVAILABLE. ALL STATIONS SHALL BE SIZED TO AVOID STATIONS WITH MORE THAN 20 GPM DEMAND OR 50 HEADS PER STATION WHICHEVER IS GREATER.

VALVE BOXES: ALL VALVE BOXES SHALL BE CONCRETE BODY, WITH CAST IRON LIDS, HINGED.

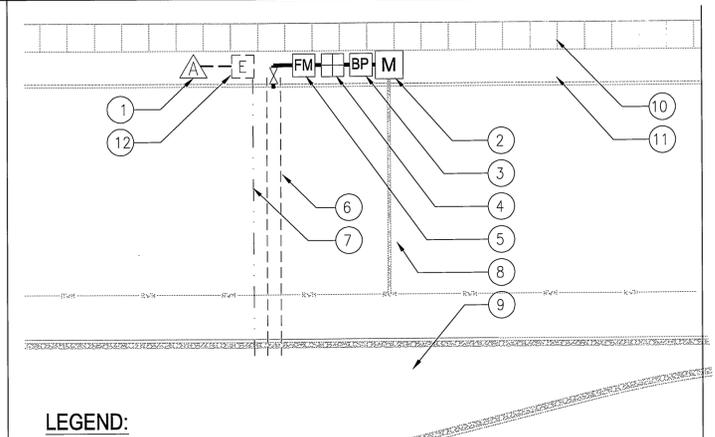
QUICK COUPLERS: PROVIDE QUICK COUPLER VALVES AT A MAXIMUM OF 50' FROM THE END OF THE LANDSCAPED AREA IN EACH ISLAND, AND SPACED AT A MAXIMUM OF 100' O.C. SHRUB AREAS AND 75' O.C. IN TURF AREAS.

BUBBLERS: ALL BUBBLERS SHALL BE OF THE TYPE AND MANUFACTURER INDICATED ON THE PLANS AND SHALL BE INSTALLED WITH TRIPLE SWING JOINTS AS DETAILED. TWO BUBBLERS SHALL BE INSTALLED AT EACH TREE, WITH 48" MINIMUM SPACING BETWEEN EACH BUBBLER.

RECORD PRINTS: INITIALLY SHALL BE MARKED UP BLUE LINE PRINTS ALL DIMENSIONS NOTED ON A COMPACT DISK (CD) WITH ALL GLOBAL POSITIONING SYSTEM (GPS) COORDINATES FOR EACH REQUIRED ITEM, AND WHICH INFORMATION IS TO BE TRANSFERRED TO EITHER SEPARATELY MYLAR OR PHOTO MYLAR PRINTS PRIOR TO TURN-OVER TO THE CITY AT FINAL ACCEPTANCE OF THE PROJECT.

### POINT OF CONNECTION ELECTRIC NOTES:

- ALL FACILITIES INSTALLED BY THE CONTRACTOR SHALL BE INSPECTED AND APPROVED BY THE UTILITIES DEPT. CONSTRUCTION INSPECTOR (PH. 782-5429). ANY CHANGES SHALL BE APPROVED BY THE UTILITIES DEPT. PRIOR TO EXECUTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL PHASES OF CONSTRUCTION WITH THE UTILITIES DEPT. CONSTRUCTION INSPECTOR AND CONSTRUCTION SUPERINTENDENT (PH. 351-6173)
- ALL IRRIGATION CONTROLLER FEED POINTS TO BE CONNECTED BY PUBLIC UTILITIES DEPT. AND ENERGIZED WHEN CLEARED BY UTILITIES DEPT. INSPECTOR.
- ALL WIRE TO BE #12 CU. THW.
- CONDUIT AND FITTINGS TO BE IN CONFORMANCE WITH UGS-100. BACKFILL TO BE TYPE AND COMPACTED AS SPECIFIED IN UGS-100.1
- PROVIDE RELEASE LETTER AUTHORIZING ENERGIZATION, SIGNED BY RESPONSIBLE PERSON IN CHARGE. OBTAIN FORM LETTER FROM UTILITY INSPECTOR.

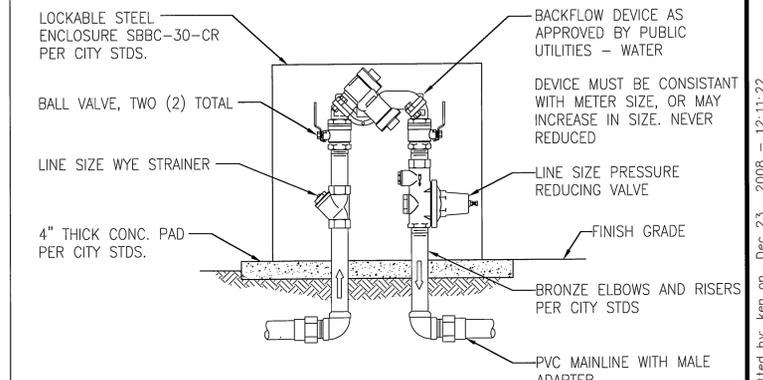


### LEGEND:

- AUTOMATIC IRRIGATION CONTROLLER (PER PLAN). REFER TO IRRIGATION LEGEND.
- IRRIGATION WATER METER (BY OTHERS). REFER TO CIVIL ENGINEERS PLANS.
- BACKFLOW PREVENTOR. REFER TO IRRIGATION LEGEND.
- MASTER VALVE (PER PLAN). REFER TO IRRIGATION LEGEND.
- FLOW METER (PER PLAN). REFER TO IRRIGATION LEGEND.
- 6" DIA. PVC SCH 40 SLEEVING, EXTENDING 1' INTO PLANTING AREA OR MEDIAN WITH 24" MIN. COVER, TERMINATING IN A BROOKS #3 PULLBOX OR CITY APPROVED EQUAL WITH TRAFFIC COVER. INSTALL PER CITY STANDARD DETAIL 4012.
- 3" LOW VOLTAGE ELECTRICAL CONDUIT SLEEVE EXTENDING 1' INTO PLANTING AREA OR MEDIAN WITH 24" MIN., TERMINATING IN A BROOKS #3 PULLBOX OR CITY APPROVED EQUAL WITH TRAFFIC COVER. INSTALL PER CITY STANDARD DETAIL 4012.
- IRRIGATION SERVICE LINE. REFER TO CIVIL ENGINEERS PLANS
- MEDIAN (BY OTHERS). REFER TO CIVIL ENGINEERS PLANS.
- CONCRETE SIDEWALK (BY OTHERS). REFER TO CIVIL ENGINEERS PLANS.
- PARKWAY
- ELECTRICAL SERVICE METER (BY OTHERS). CONTRACTOR TO PROVIDE CONNECTION TO AUTOMATIC IRRIGATION CONTROLLER

### A IRRIGATION EQUIPMENT CONFIGURATION

N.T.S.



### CONSTRUCTION NOTES:

- INSTALL BACKFLOW DEVICE SQUARE WITH HARDSCAPE ELEMENTS AS APPROVED BY THE PUBLIC WORKS INSPECTOR IN THE FIELD.
- COORDINATE WITH PUBLIC UTILITIES-WATER FOR LOCATION OF BACKFLOW AND WATER METER. WHEREVER POSSIBLE, LOCATE SERVICE AND BACKFLOW IN THE PARKWAY AT MID-BLOCK A MINIMUM OF 150' FROM THE BACK-OF-CURB-RETURN AT THE NEAREST INTERSECTION PER CITY STANDARDS.
- THE BACKFLOW ENCLOSURE MUST BE LOCKING STAINLESS STEEL POWDER COATED GREEN PER CITY SPECIFICATIONS. SBBC-30-CR OR APPLICABLE SIZE.
- BACKFLOW DEVICES SHALL BE A FEBCO 825YA INSTALLED USING 250 PSI RATED BRASS/BRONZE PIPE AND FITTINGS BETWEEN P.O.C. AND DEVICE INCLUDING THE NINETY DEGREE ELBOWS AT THE POINT OF CONNECTION TO THE MAINLINE. CONTACT PUBLIC UTILITIES-WATER BACKFLOW PROGRAM STAFF (951) 351-6320 OR (951) 351-6282 FOR INSPECTION BEFORE BACK FILLING.

### B BACKFLOW PREVENTOR

N.T.S.

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

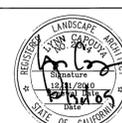
APPROVED BY: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
PRINCIPAL ENGINEER  
CONSTRUCTION ADMIN.  
SURVEYOR  
STREET SERVICES  
TRAFFIC ENGINEER  
LANDSCAPING

**VAN BUREN BOULEVARD**  
**WIDENING**  
**IRRIGATION LEGEND**  
**AND NOTES**

ACCT. NO.: W.O. NO. 0501889

R-3965L  
SHEET 18 OF 17

HORIZ. SCALE: 1" = 20'

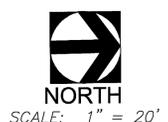
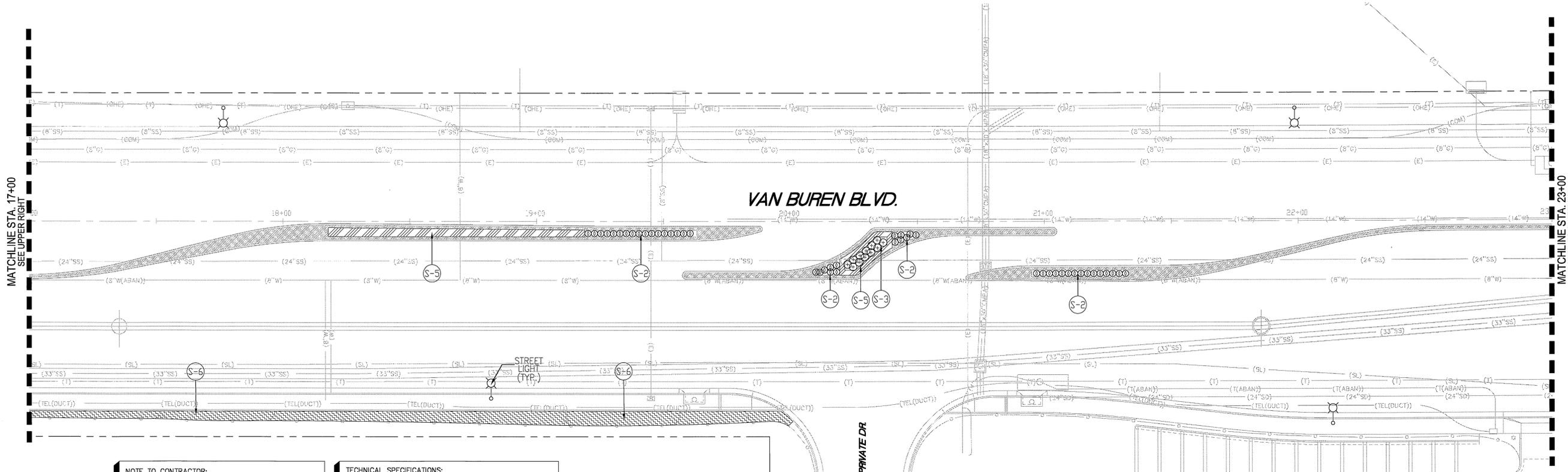
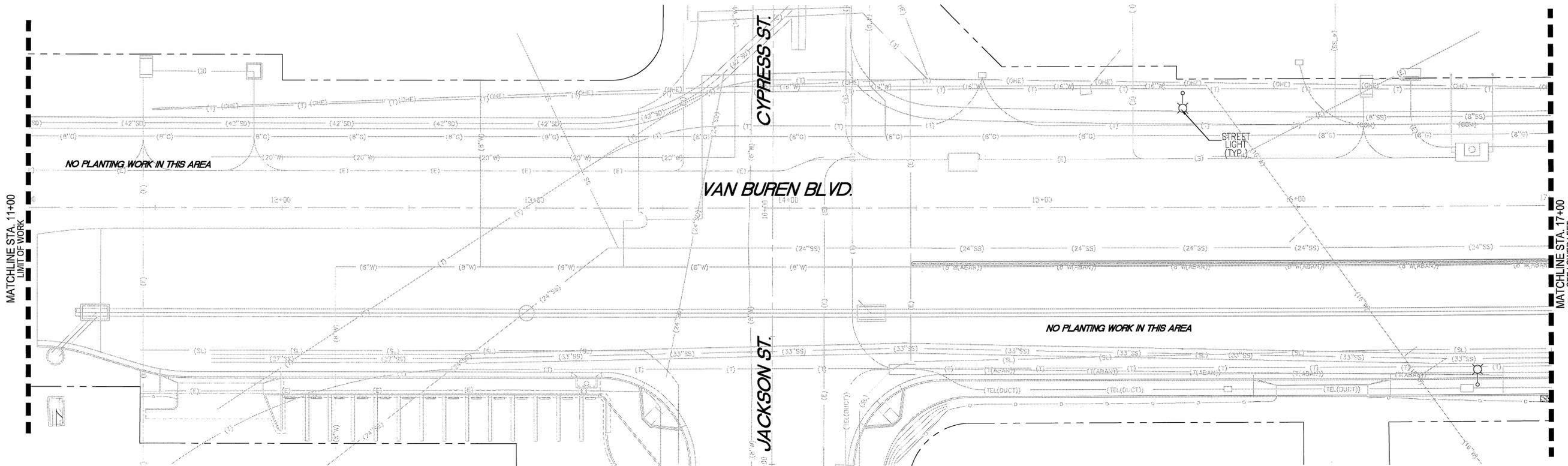


DATE DEC. 23, 2008

DESIGNED BY: T.M. DRAWN BY: S.G. CHECKED BY: T.M.

ASBUILT

DWG Name: I:\P\sonos\Van Buren Boulevard Widening\LCI Plan\1-B.dwg Plotted by: ken on Dec 23, 2008 - 12:11:22



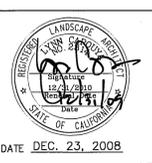
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PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
LANDSCAPE ARCHITECTS  
2995 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2500  
LYNN CAPOUYA, RLA # 2314, EXP 12/31/10



MARK	REVISIONS	APPR.	DATE

DESIGNED BY: T.M. DRAWN BY: S.G. CHECKED BY: T.M.

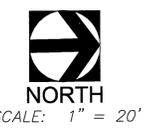
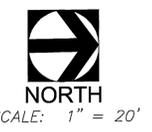
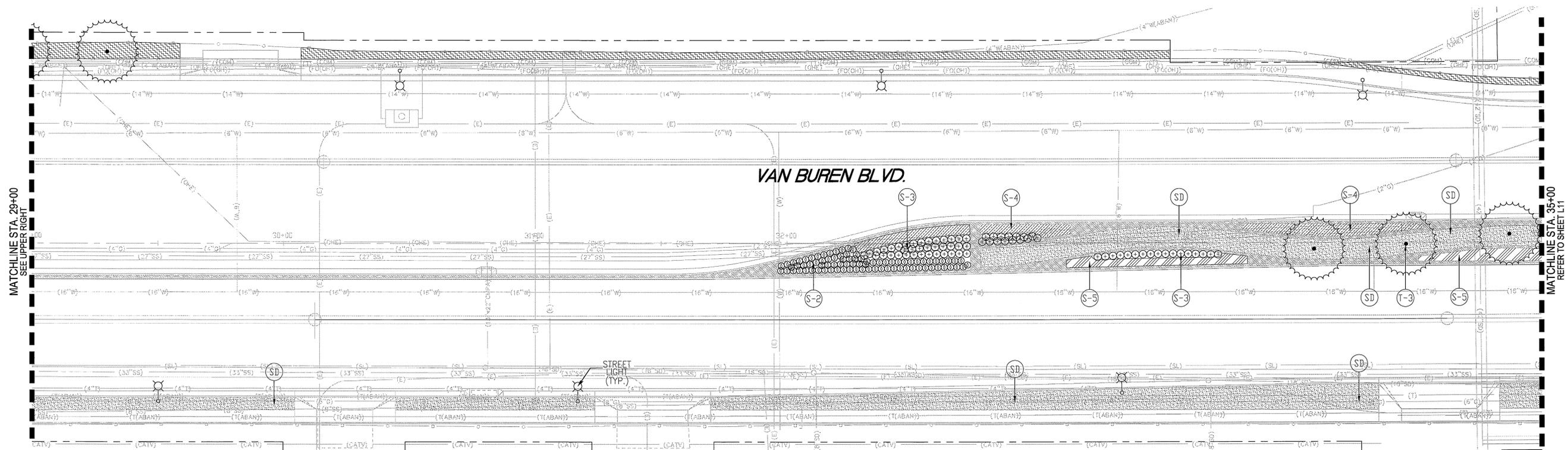
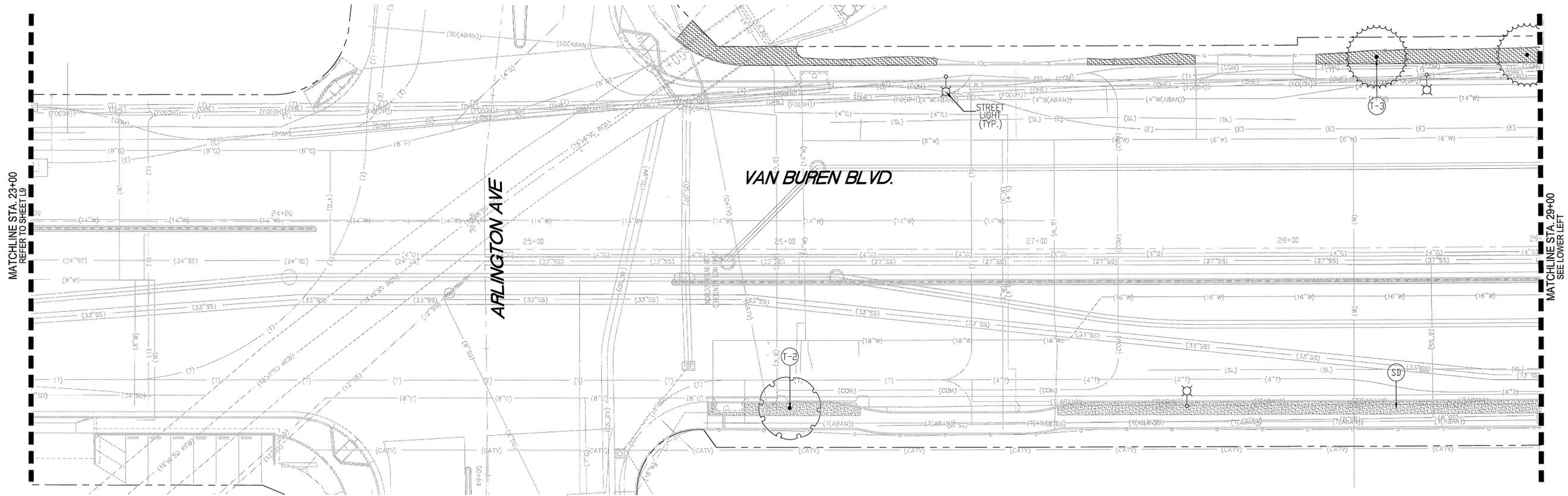
**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**  
APPROVED BY: [Signature] DATE: [ ]  
CONSTRUCTION ADMIN. SURVEYOR  
STREET SERVICES TRAFFIC ENGINEER  
LANDSCAPING

**VAN BUREN BOULEVARD WIDENING PLANTING PLAN**  
HORIZ. SCALE: 1" = 20'

ACCT. NO.: W.O. NO. 0501889  
**R-3965L**  
SHEET L9 OF 17

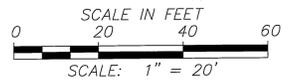


**ASBUILT**



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FOR THE LOCATION OF BURIED UTILITY LINES. DON'T DISRUPT VITAL SERVICES. TWO WORKING DAYS BEFORE YOU DIG

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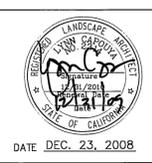
**BENCHMARK NO. : G3-V3**

ELEV. 732.825  
P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
LANDSCAPE ARCHITECTS

2995 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2500  
UNDER THE DIRECT SUPERVISION OF:

LYNN CAPOUYA, RLA # 2314, EXP 12/31/10



MARK	REVISIONS	APPR.	DATE

DESIGNED BY: T.M. DRAWN BY: S.O. CHECKED BY: T.M.

CITY OF RIVERSIDE, CALIFORNIA  
PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

APPROVED (PART OF R3965)  
CITY ENGINEER

**VAN BUREN BOULEVARD  
WIDENING  
PLANTING PLAN**

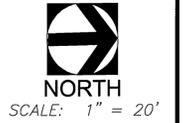
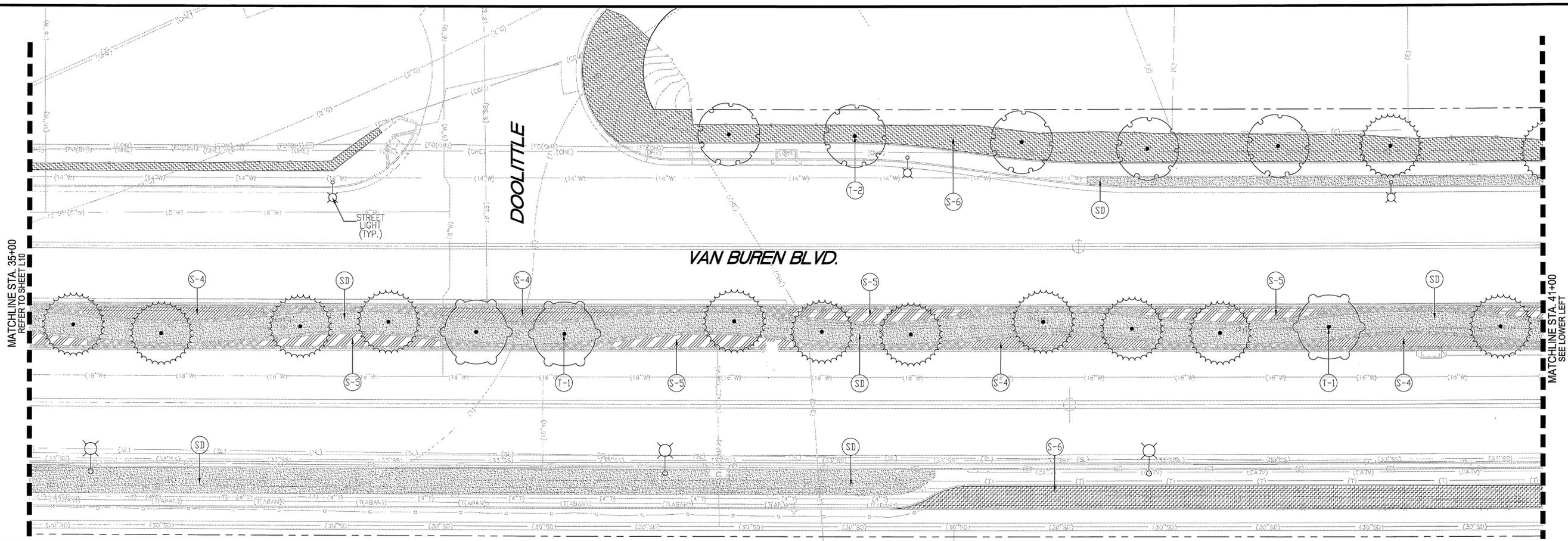
HORIZ. SCALE: 1" = 20'

ACCT. NO.: W.O. NO. 0501889

**R-3965L**

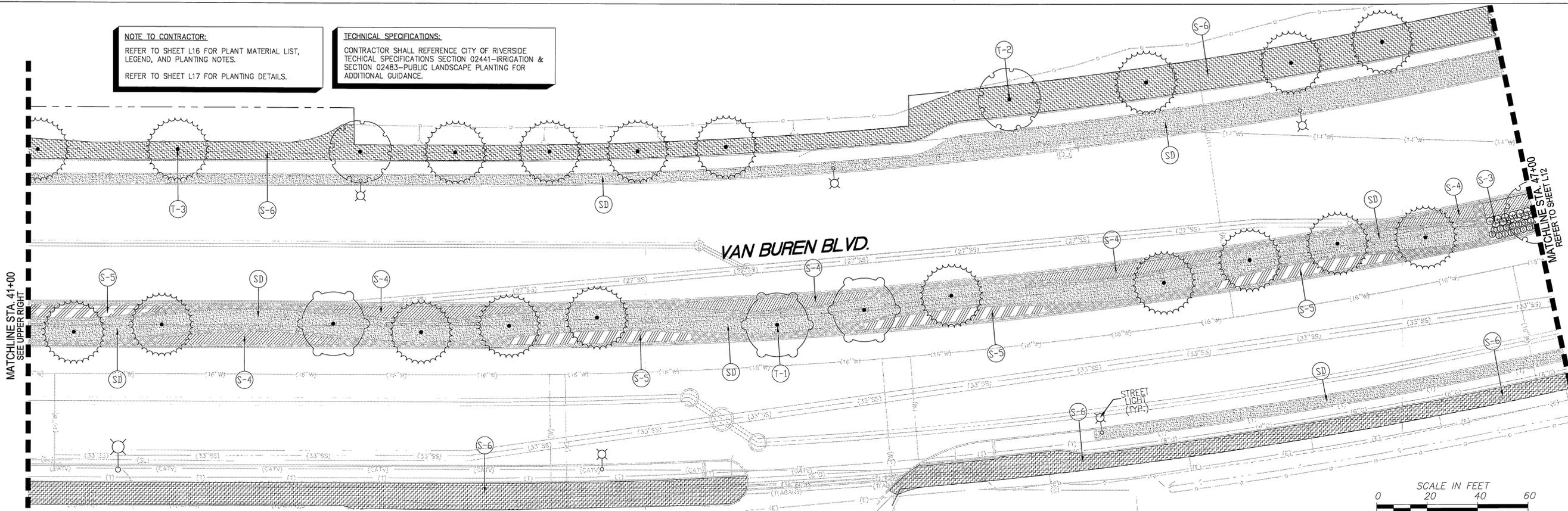
SHEET **L10** OF **17**

**AS BUILT**



**NOTE TO CONTRACTOR:**  
REFER TO SHEET L16 FOR PLANT MATERIAL LIST, LEGEND, AND PLANTING NOTES.  
REFER TO SHEET L17 FOR PLANTING DETAILS.

**TECHNICAL SPECIFICATIONS:**  
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2995 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2500  
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LYNN CAPOUYA, RLA # 2314, EXP 12/31/10 DATE DEC. 23, 2008



MARK	REVISIONS	APPR.	DATE

DESIGNED BY T.M. DRAWN BY S.G. CHECKED BY T.M.

**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER			
CONSTRUCTION ADMIN.			
SURVEYOR			
STREET SERVICES			
TRAFFIC ENGINEER			
LANDSCAPING			

APPROVED (PART OF R3965)  
CITY ENGINEER

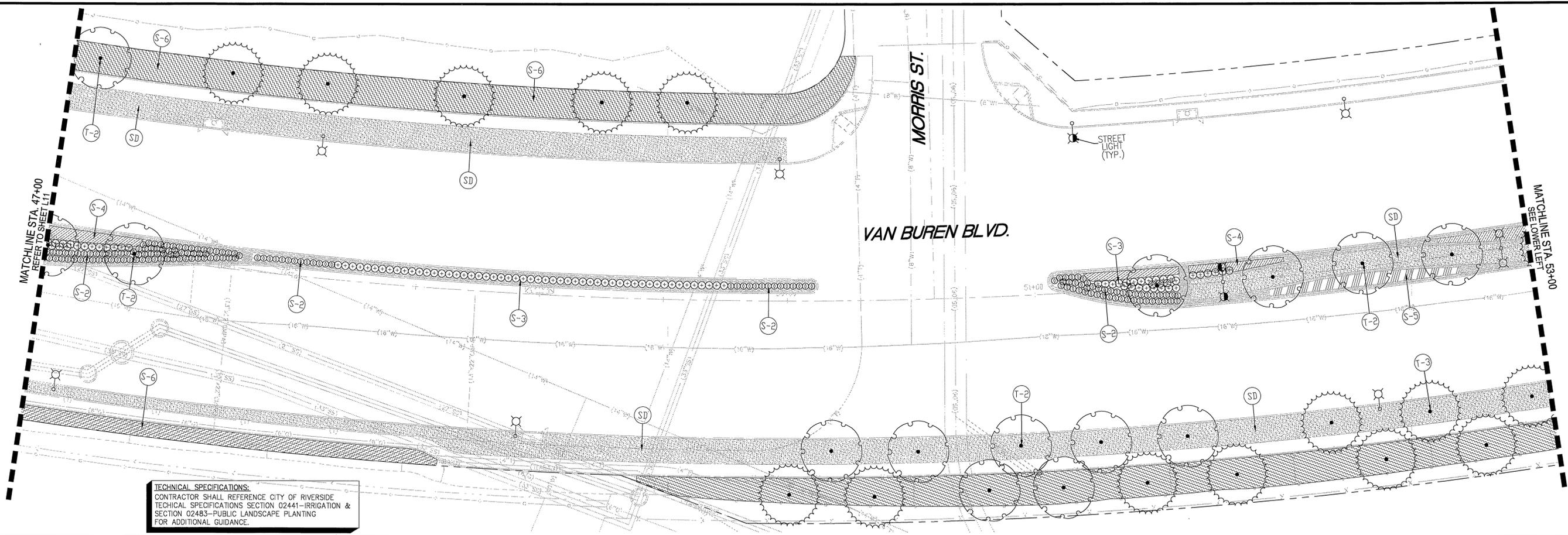
**VAN BUREN BOULEVARD**  
**WIDENING**  
**PLANTING PLAN**

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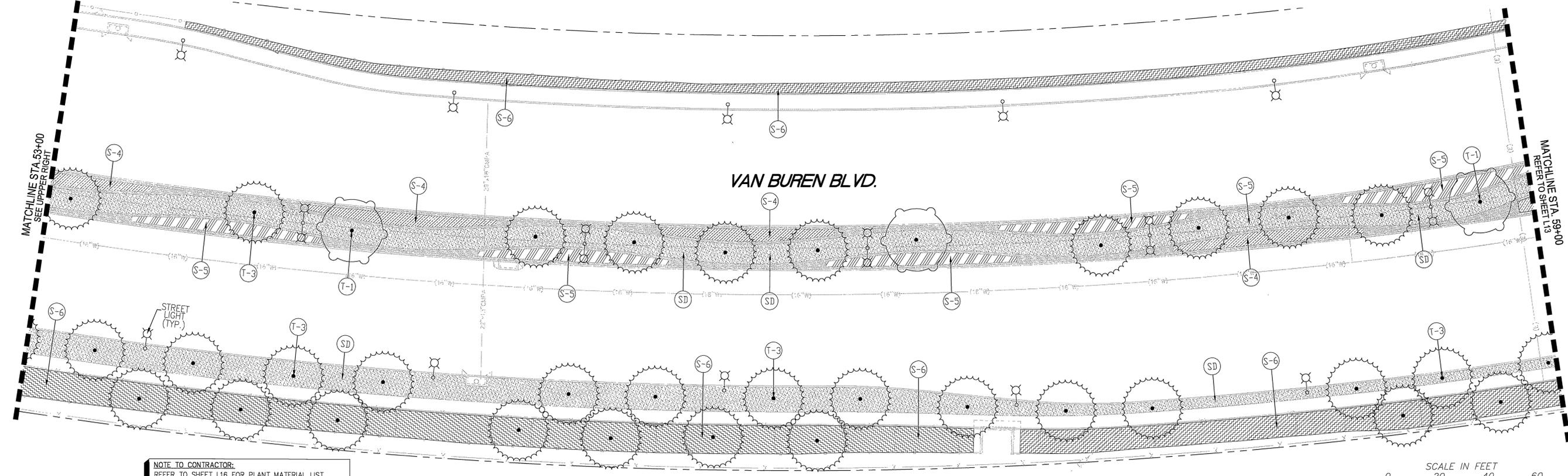
ACCT. NO.: W.D. NO. 0501889

**R-3965L**  
SHEET **L11** OF **17**

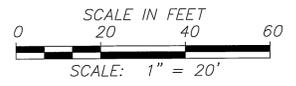
**ASBUILT**



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MARK	REVISIONS	APPR.	DATE

DESIGNED BY *T.M.* DRAWN BY *S.O.* CHECKED BY *T.M.*

**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

**VAN BUREN BOULEVARD**  
**WIDENING**  
**PLANTING PLAN**

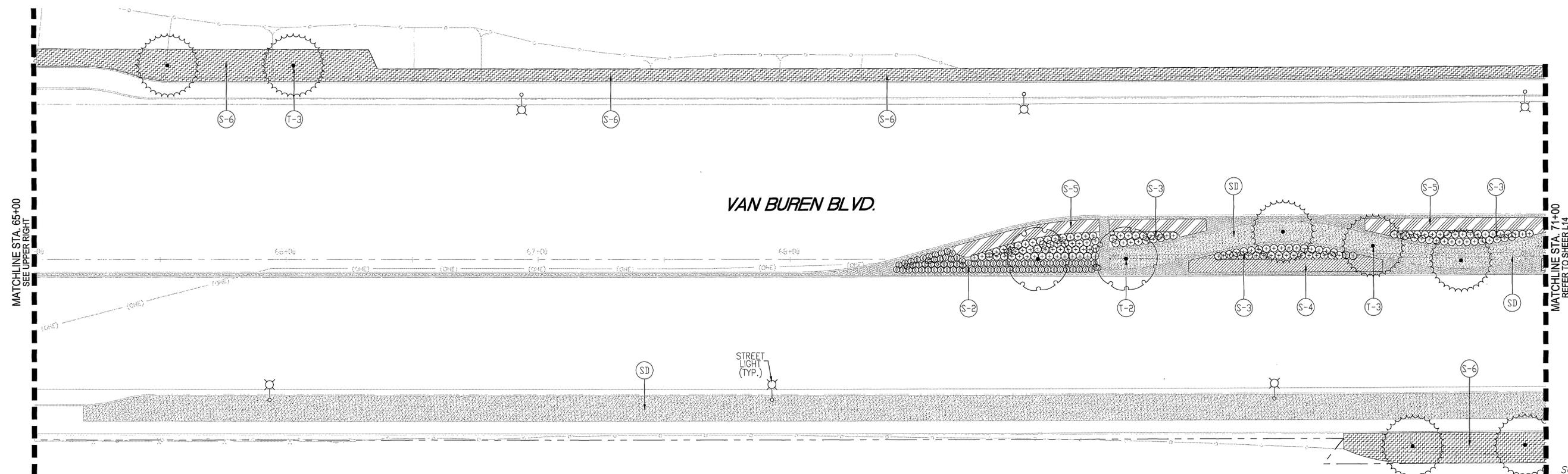
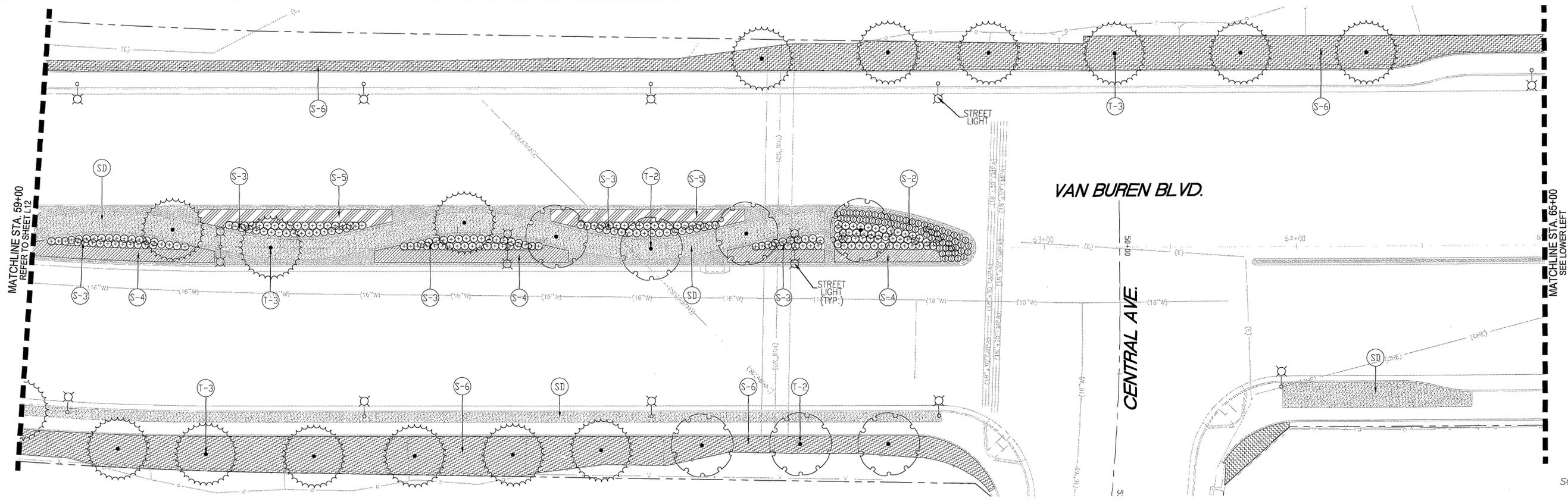
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ACCT. NO.: W.O. NO. 0501889

**R-3965L**

SHEET **L12** OF **17**

**AS BUILT**



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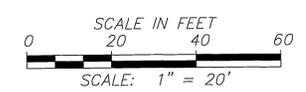


MARK	REVISIONS	APPR.	DATE

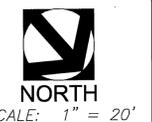
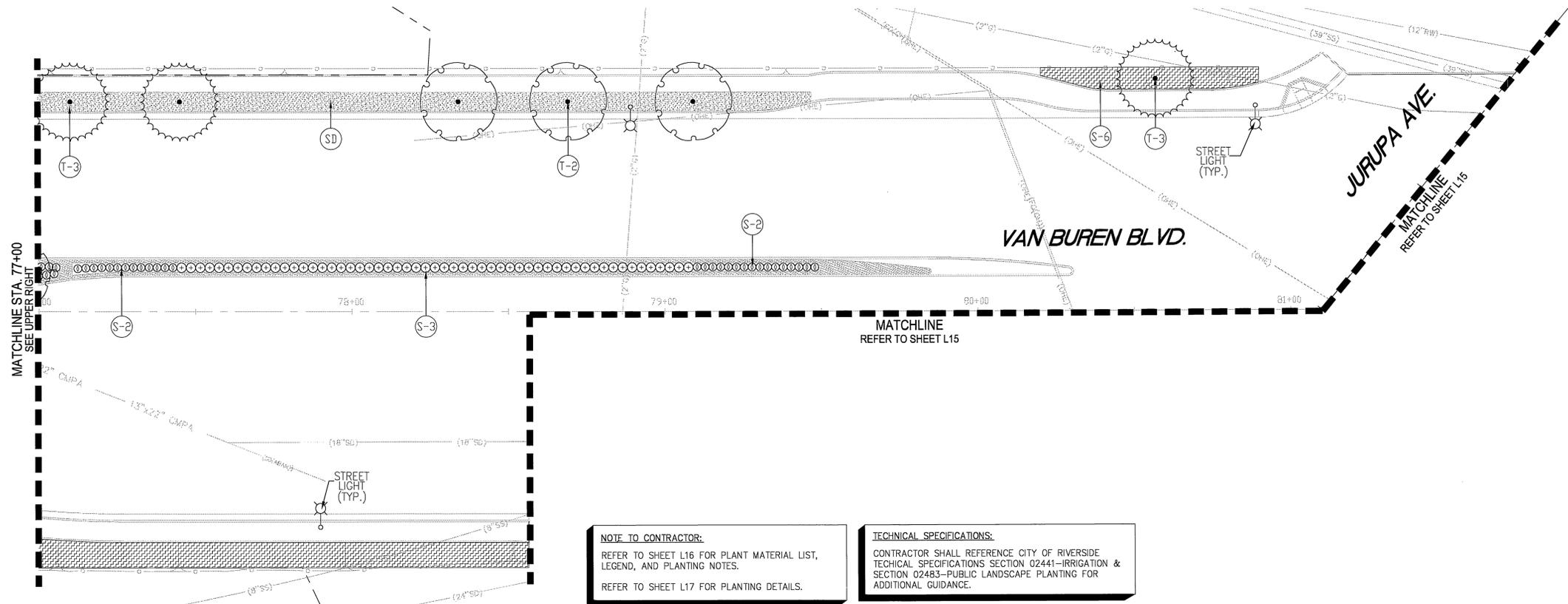
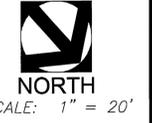
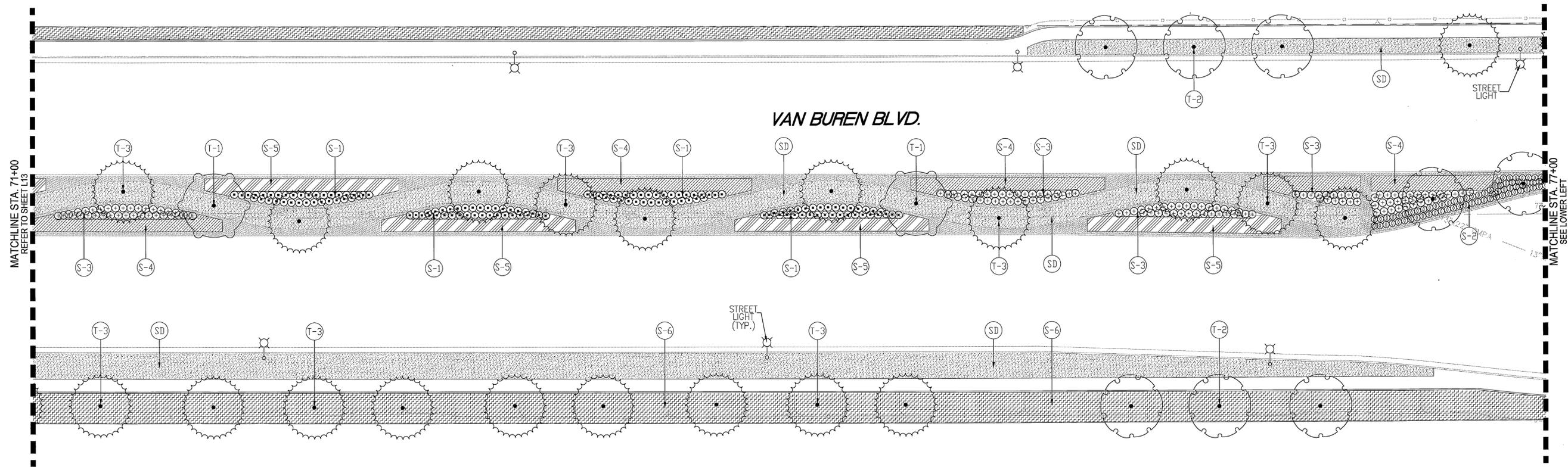
**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**  
 APPROVED BY: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINCIPAL ENGINEER  
 CONSTRUCTION ADMIN.  
 SUPERVISOR  
 STREET SERVICES  
 TRAFFIC ENGINEER  
 LANDSCAPING

**VAN BUREN BOULEVARD**  
**WIDENING**  
**PLANTING PLAN**  
 HORIZ. SCALE: 1" = 20'

ACCT. NO.: W.O. NO. 0501889  
**R-3965L**  
 SHEET L13 OF 17

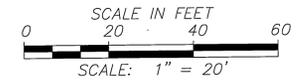


**ASBUILT**



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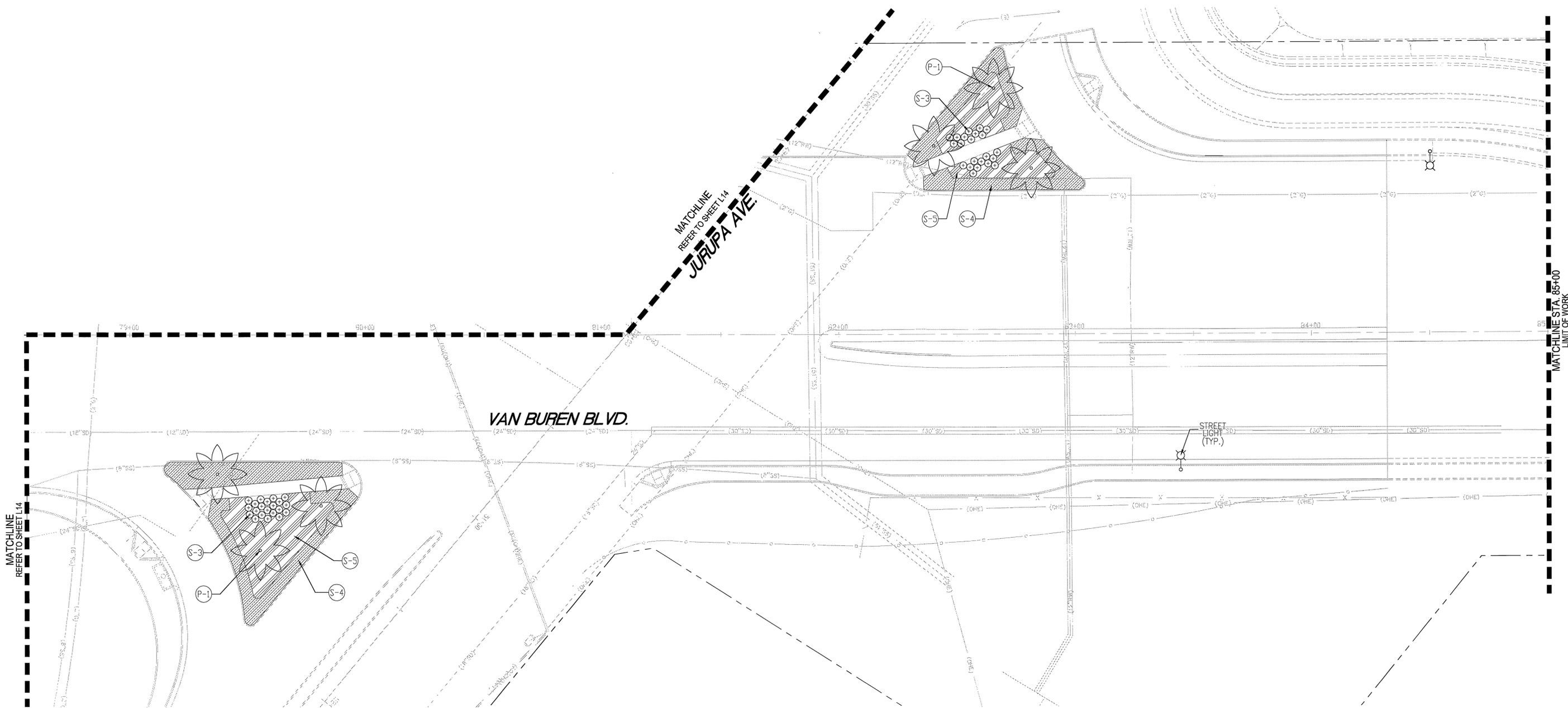
DESIGNED BY *T.M.* DRAWN BY *S.O.* CHECKED BY *T.M.*

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER			APPROVED (PART OF R3665)
CONSTRUCTION ADMIN.			CITY ENGINEER
SURVEYOR			
STREET SERVICES			
TRAFFIC ENGINEER			
LANDSCAPING			

**VAN BUREN BOULEVARD  
 WIDENING  
 PLANTING PLAN**  
 HORIZ. SCALE: 1" = 20'

ACCT. NO.: W.O. NO. 0501889  
**R-3965L**  
 SHEET **L14** OF **17**

**ASBUILT**



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**CITY OF RIVERSIDE, CALIFORNIA**  
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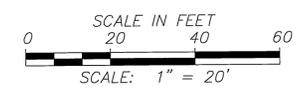
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PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

**VAN BUREN BOULEVARD WIDENING PLANTING PLAN**

ACCT. NO.: W.O. NO. 0501889

**R-3965L**  
 SHEET **L15** OF **17**

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**ASBUILTS**

PLANTING LEGEND

CALLOUT	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS	QUANTITY
T-1		TABEBUIA HETEROPHYLLA	PINK TRUMPET TREE	36" BOX	PER PLAN	11
T-2		CERCIS CANADENSIS 'FOREST PANSY'	EASTERN REDBUD	36" BOX	PER PLAN	42
T-3		GEIJERA PARVIFLORA	AUSTRALIAN WILLOW	36" BOX	PER PLAN	129
P-1		BRAHEA ARMATA	MEXICAN BLUE PALM	48" BOX (6'-8' BTH MIN.)	PER PLAN	6
S-1		NANDINA DOMESTICA 'COMPACTA'	DWARF HEAVENLY BAMBOO	5 GAL.	PER PLAN	136
S-2		ROSA 'NOARE'	ROSE	5 GAL.	PER PLAN	550
S-3		STRELITZIA REGINAE	BIRD OF PARADISE	5 GAL.	PER PLAN	765
S-4		HEMEROCALLIS HYBRID 'BRIGHT N' TIGHT ORANGE'	DAYLILY	1 GAL.	24" O.C. TRIANGULARLY SPACED	2,575
S-5		PHORMIUM TENAX 'JACK SPRATT'	NEW ZEALAND FLAX	5 GAL.	24" O.C. TRIANGULARLY SPACED	2,375
S-6		MYOPORUM PARVIFOLIUM 'PROSTRATUM'	MYOPORUM	1 GAL.	24" O.C. TRIANGULARLY SPACED	15,875
SD		TURF		SOD	COOL-SEASON TYPE TALL FESCUE (MARATHON III)	66,700 S.F.
M		MULCH	SHREDDED BARK MULCH	BULK	ALL SHRUBS PLANTING AREAS SHOULD BE TOP DRESS W/ 2" THICK LAYER OF SHREDDED BARK MULCH. (SEE SPECIFICATION)	580 CU.YD.

PLANTING NOTES:

- CONTRACTOR SHALL CALL THE ENGINEER'S ATTENTION TO SITE CONDITIONS WHICH PREVENT HIS INSTALLATION PER PLAN IN A REASONABLE MANNER.
- REPLACEMENT OF DAMAGED OR DESTROYED PLANTINGS SHALL TAKE PLACE WITHIN 48 HOURS OF NOTIFICATION BY THE ENGINEER, OR SAID REPLACEMENT ITEMS SHALL BE DEDUCTED FROM THE CONTRACTOR'S FINAL BILLING.
- REPLACEMENT ITEMS SHALL BE EXACT DUPLICATE OF ORIGINAL WORK OR PLANTS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.
- IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO PLANT MATERIAL.
- TREES SHALL BE PLANTED AFTER CONCRETE PAVEMENT, BUT NOT BEFORE IRRIGATION COVERAGE HAS BEEN APPROVED.
- PLACE TREES BETWEEN SPRAY HEADS WHEREVER POSSIBLE.
- A SITE SHALL BE PRE-SELECTED BY THE ENGINEER FOR PLANT DELIVERY AND APPROVAL, FOR MIXING OF BACKFILL.
- CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE CITY'S REPRESENTATIVE.
- MAINTENANCE PERIOD SHALL BE A MINIMUM OF ONE YEAR (365) CONSECUTIVE CALENDAR DAYS FOR STREET TREES AND A MINIMUM OF NINETY (90) CONSECUTIVE CALENDAR DAYS FOR SHRUB AND SOD FROM DATE OF ACCEPTANCE. MAINTENANCE SHALL INCLUDE BI-WEEKLY WEED AND RODENT ABATEMENT PROCEDURES INCLUDING FOLIAR APPLICATION OF CHELATED IRON AND TRACE MINERALS 90 DAYS APART.
- ALL PLANTING AND IRRIGATION WORK SHALL BE GUARANTEED AGAINST ANY AND ALL POOR, INADEQUATE, OR INFERIOR MATERIALS AND/OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FOLLOWING THE DATE OF PROJECT ACCEPTANCE.

GENERAL NOTES FOR PUBLIC LANDSCAPES:

- ALL RELATED WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS FOR PLANTING AND IRRIGATION WORK. (SECTIONS 02441 AND 02483).
- A "PUBLIC LANDSCAPE" PERMIT, AS ISSUED BY THE PUBLIC WORKS DEPARTMENT IS REQUIRED. CONTACT THE PUBLIC WORKS LANDSCAPE INSPECTOR AT (951) 351-6313 TO SCHEDULE A PRE-CONSTRUCTION MEETING AND TO OBTAIN THE PERMIT.
- WHEN CALLING FOR INSPECTIONS, CONTACT THE PUBLIC WORKS LANDSCAPE INSPECTOR A MINIMUM OF 48 HOURS IN ADVANCE TO SCHEDULE AN INSPECTION. A WRITTEN APPROVAL WILL BE PROVIDED ON THE PUBLIC LANDSCAPE PERMIT CARD FOR EACH STAGE OF INSPECTION. A VERBAL APPROVAL WILL NOT BE ACCEPTABLE. INSPECTIONS ARE REQUIRED PER THE STANDARD SPECIFICATIONS, AND INCLUDE BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING:
  - AFTER COMPLETION OF FINAL GRADING AND WHEN ALL UTILITY SERVICES HAVE BEEN MARKED, BUT PRIOR TO INITIATING ANY LANDSCAPE WORK WITHIN THE PUBLIC RIGHT OF WAY.
  - AT TIME OF INSTALLATION OF IRRIGATION SLEEVES AND CONSTANT PRESSURE MAINLINES, BUT PRIOR TO BACKFILL OF TRENCHES FOR SAME (NOTE: MAINLINES MUST BE PRESSURE TESTED IN THE PRESENCE OF THE PUBLIC WORKS LANDSCAPE INSPECTOR).
  - AT TIME OF INSTALLATION OF IRRIGATION VALVES, LATERALS AND HEADS.
  - FOR SPOTTING OF ALL TREES PRIOR TO DIGGING PLANTING PITS.
  - WHILE DIGGING PLANT PITS AND PLANTING/ RELOCATING TREES.
  - AFTER PLANTING AND ALL OTHER INDICATED OR SPECIFIED WORK HAS BEEN COMPLETED, FOR START OF MAINTENANCE.
  - AT SUBSTANTIAL COMPLETION OF THE PROJECT FOR CITY'S ACCEPTANCE TO START THE REQUIRED MAINTENANCE PERIOD.
  - AT THE END OF THE MAINTENANCE PERIOD, THE CONTRACTOR/DEVELOPER SHALL CALL THE PUBLIC WORKS LANDSCAPE INSPECTOR AT THE NUMBER LISTED ABOVE FOR A FINAL ACCEPTANCE INSPECTION IN ORDER TO BE RELEASED FROM MAINTENANCE. CONTRACTOR'S BOND WILL NOT BE RELEASED UNTIL AFTER CITY'S ISSUANCE OF WRITTEN NOTIFICATION THAT THE PROJECT HAS PASSED FINAL INSPECTION AND THE PUBLIC WORKS DEPARTMENT IS ASSUMING MAINTENANCE RESPONSIBILITIES.

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 ELEV.: 732.825  
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 UNDER THE DIRECT SUPERVISION OF:  
 LYNN CAPOUYA, RLA # 2314, EXP 12/31/10  
 DATE DEC. 23, 2008



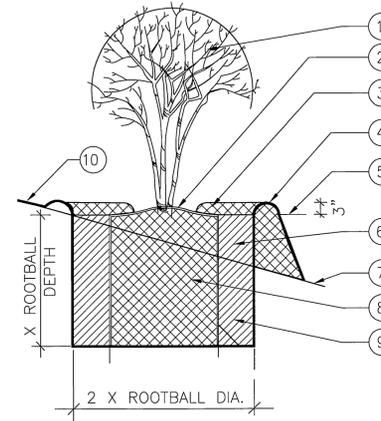
MARK	REVISIONS	APPR.	DATE
DESIGNED BY	T.M.	DRAWN BY	S.G.
CHECKED BY	T.M.		

CITY APPROVED CONSTRUCTION ADDENDUM 3-17-09  
**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**  
 APPROVED BY: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 PRINCIPAL ENGINEER  
 CONSTRUCTION ADMIN.  
 SURVEYOR  
 STREET SERVICES  
 TRAFFIC ENGINEER  
 LANDSCAPING

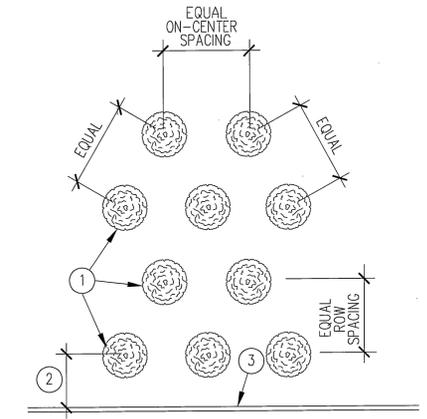
**VAN BUREN BOULEVARD**  
**WIDENING**  
**PLANTING MATERIAL LIST,**  
**AND PLANTING NOTES**

ACCT. NO.: W.D. NO. 0501889  
**R-3965L**  
 SHEET L16 OF 17

ASBUILT

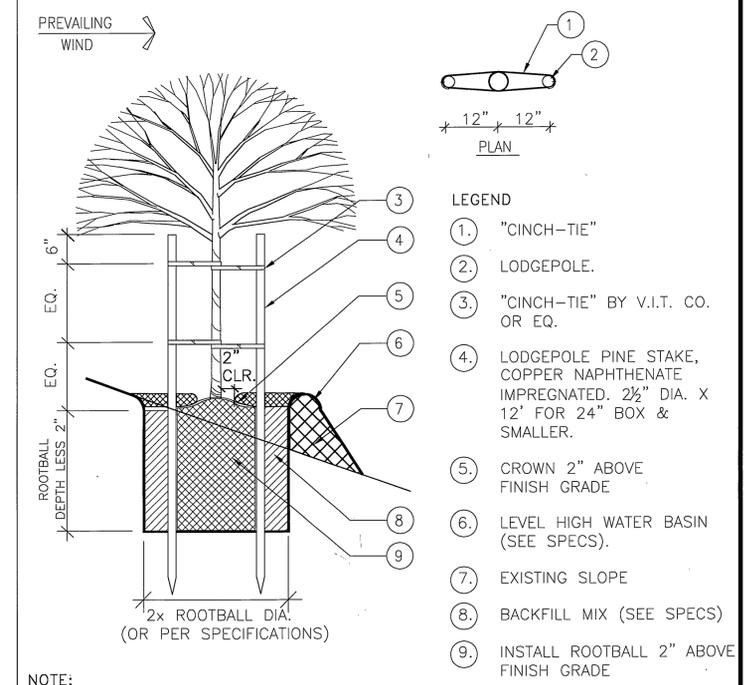


- LEGEND**
- ① SHRUB
  - ② CROWN 2" ABOVE FINISH GRADE
  - ③ 3" DEEP LAYER OF MULCH AWAY FROM THE TRUNK
  - ④ WATER BASIN IN SHRUB AREAS ONLY
  - ⑤ FINISH GRADE
  - ⑥ AMENDED SOIL FOR PLANTING (SEE SPECIFICATIONS)
  - ⑦ EXISTING SLOPE
  - ⑧ ROOTBALL
  - ⑨ PLANT PIT EXCAVATION
  - ⑩ FINISH GRADE



- LEGEND**
- 1. LOCATE PLANTS WITH EQUAL SPACING AS INDICATED IN THE PLANTING LEGEND.
  - 2. 1/2 ON-CENTER SPACING.
  - 3. PAVING, CURB, BUILDING, OR MOWSTRIP--SHOWING PLANTING AREA LIMIT.

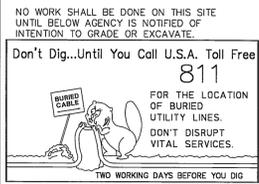
C SHRUB PLANTING ON SLOPE N.T.S. A GROUNDCOVER TRIANGULAR SPACING N.T.S.



- LEGEND**
- ① "CINCH-TIE"
  - ② LODGEPOLE.
  - ③ "CINCH-TIE" BY V.I.T. CO. OR EQ.
  - ④ LODGEPOLE PINE STAKE, COPPER NAPHTHENATE IMPREGNATED. 2 1/2" DIA. X 12' FOR 24" BOX & SMALLER.
  - ⑤ CROWN 2" ABOVE FINISH GRADE
  - ⑥ LEVEL HIGH WATER BASIN (SEE SPECS).
  - ⑦ EXISTING SLOPE
  - ⑧ BACKFILL MIX (SEE SPECS)
  - ⑨ INSTALL ROOTBALL 2" ABOVE FINISH GRADE
- NOTE:**
- A. MIN. TWO TIES (TOP & BOTTOM) REQUIRED. USE THIRD TIE WHEN NECESSARY TO HOLD TREE IN UPRIGHT POSITION. TIES TO BE SECURED TO AVOID SLIPPAGE. (WRAP AROUND STAKE, TWIST & STAPLE TIES TO STAKE.)
  - B. MULCH 3" DEEP, 2" CLEAR OF TRUNK.

B TREE PLANTING ON SLOPE N.T.S.

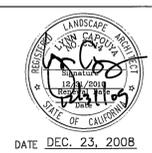
**TECHNICAL SPECIFICATIONS:**  
 CONTRACTOR SHALL REFERENCE CITY OF RIVERSIDE TECHNICAL SPECIFICATIONS SECTION 02441-IRRIGATION & SECTION 02483-PUBLIC LANDSCAPE PLANTING FOR ADDITIONAL GUIDANCE.



**NOTE TO CONTRACTOR:**  
 LOCATION, TYPE, AND DEPTH OF EXISTING UTILITIES INCLUDING UTILITIES IDENTIFIED WITH POTHOLE DATA ARE APPROXIMATE. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO THE START OF EXCAVATION. CONTRACTOR SHALL TAKE CARE DURING EXCAVATION AND PROTECT IN PLACE ALL UTILITIES ENCOUNTERED. DAMAGED UTILITY FACILITIES SHALL BE REPAIRED AT NO ADDITIONAL COST.

**BENCHMARK NO. : G3-V3**  
 ELEV.: 732.825  
 P.K. NAIL & CITY ENGINEER TAG IN THE NORTHERLY CURB OF ARLINGTON AVENUE, APPROXIMATELY 8 FEET EASTERLY OF THE CENTERLINE OF THE HAROLD STREET.

PLANS PREPARED BY:  
**Lynn Capouya, Inc.**  
 LANDSCAPE ARCHITECTS  
 2994 AIRWAY AVENUE • COSTA MESA, CA 92626 • (714) 556-2300  
 UNDER THE DIRECT SUPERVISION OF:  
 LYNN CAPOUYA, RLA # 2314, EXP 12/31/10



MARK	REVISIONS	APPR. DATE

**CITY OF RIVERSIDE, CALIFORNIA**  
**PUBLIC WORKS DEPARTMENT**

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
CONSTRUCTION ADMIN.		
SURVEYOR		
STREET SERVICES		
TRAFFIC ENGINEER		
LANDSCAPING		

DESIGNED BY T.M. DRAWN BY S.O. CHECKED BY T.M.

**VAN BUREN BOULEVARD**  
**WIDENING**  
**PLANTING DETAILS**

ACCT. NO.: W.O. NO. 0501899  
**R-3965L**  
 SHEET 17 OF 17

**AS BUILT**

DWG Name: I:\Psomas\Van Buren Boulevard Widening\LCI Plan\17.dwg Plotted by: ken on Dec 23, 2008 - 11:56:34