

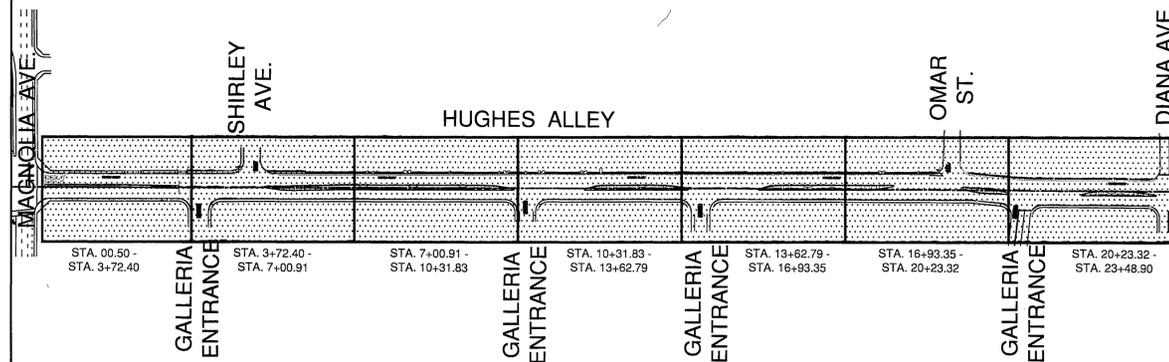
RIVERSIDE



CALIFORNIA

PUBLIC WORKS DEPARTMENT HUGHES ALLEY STREET IMPROVEMENT

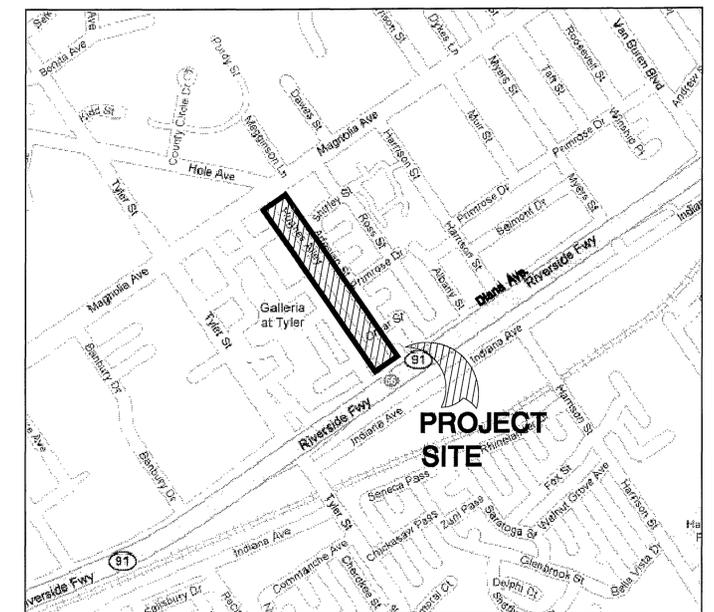
KEY MAP:



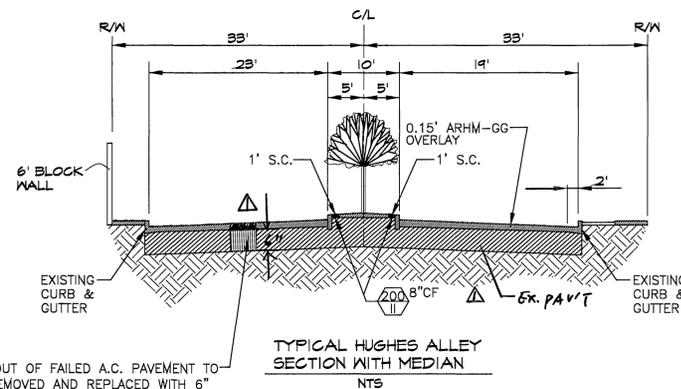
GENERAL NOTES FOR PUBLIC LANDSCAPES:

- ALL RELATED WORK SHALL CONFORM TO THE CITY OF RIVERSIDE PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS FOR PLANTING AND IRRIGATION WORK. (SECTIONS 02441 AND 02480).
- A "PUBLIC LANDSCAPE" PERMIT, AS ISSUED BY THE PUBLIC WORKS DEPARTMENT IS REQUIRED. CONTACT THE PUBLIC WORKS LANDSCAPE INSPECTOR AT 951-351-6103 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 IN 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 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.
- THE DEVELOPER SHALL BE RESPONSIBLE TO ACCEPTABLY MAINTAIN ALL PLANTINGS FOR A MINIMUM PERIOD AS SPECIFIED IN THE BID DOCUMENTS.
- COLD MILL 0- $\frac{22}{32}$ " OF EXISTING A.C. PAVEMENT BETWEEN EXISTING GUTTER LIP AND PROPOSED MEDIAN CURB. REMOVE AND REPLACE FAILED PAVEMENT AREAS WITH 6" A.C. (B-PG-64-10) AFTER COLD MILLING 0.15" EXISTING AC. OVERLAY THE ENTIRE ROADWAY WIDTH WITH 0.15" AR HM-G G (C2-PG-64-10).

VICINITY MAP:



(NOT TO SCALE)



DIG-OUT OF FAILED A.C. PAVEMENT TO BE REMOVED AND REPLACED WITH 6" AC(B-PG-64-10). DIG-OUT AREA TO BE MARKED AFTER COLD MILLING IS COMPLETED.

TYPICAL HUGHES ALLEY SECTION WITH MEDIAN
NTS



(NOT TO SCALE)

SHEET INDEX:

- T-1 TITLE SHEET
- CP-1 CONSTRUCTION PLAN
- CP-2 CONSTRUCTION PLAN
- IR-1 IRRIGATION PLAN
- IR-2 IRRIGATION PLAN
- IR-3 IRRIGATION DETAILS
- IR-4 IRRIGATION DETAILS
- IR-5 IRRIGATION NOTES
- PL-1 PLANTING PLAN
- PL-2 PLANTING PLAN
- PL-3 PLANTING DETAILS

Underground Service Alert
Call TOLL FREE
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TWO WORKING DAYS BEFORE YOU DIG

IAN DAVIDSON, LANDSCAPE ARCHITECTURE
3744 10TH STREET, SUITE 200
RIVERSIDE, CA 92501
951 683 1283 FAX 951 683 4352
E-MAIL: IDAVIDSON@DLAINC.COM



CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT			
APPROVED BY	BY	DATE	APPROVED BY
CONTRACT ADMIN.	SS	5/17/08	CITY ENGINEER
PRINCIPAL ENGINEER	SS	5/17/08	
STREET SERVICES	SS	5/17/08	
SURVEYOR	SS	5/17/08	
TRAFFIC DIVISION	SS	5/17/08	
PARKS DEPARTMENT	SS	5/17/08	
LANDSCAPE	SS	5/17/08	

CITY OF RIVERSIDE
HUGHES ALLEY
STREET IMPROVEMENT PROJECT
LANDSCAPE PLANS
TITLE SHEET

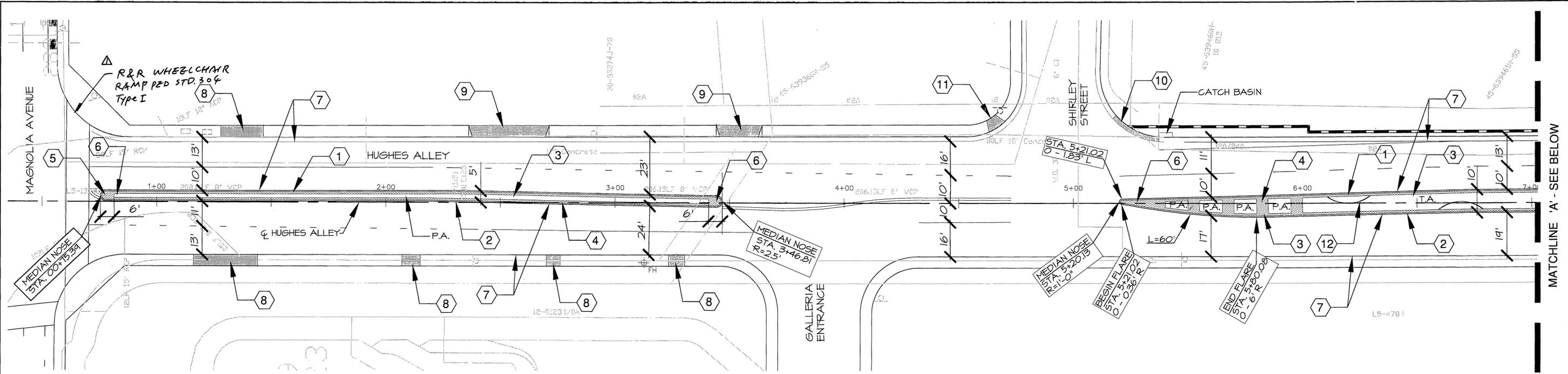
R-4090

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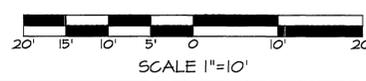
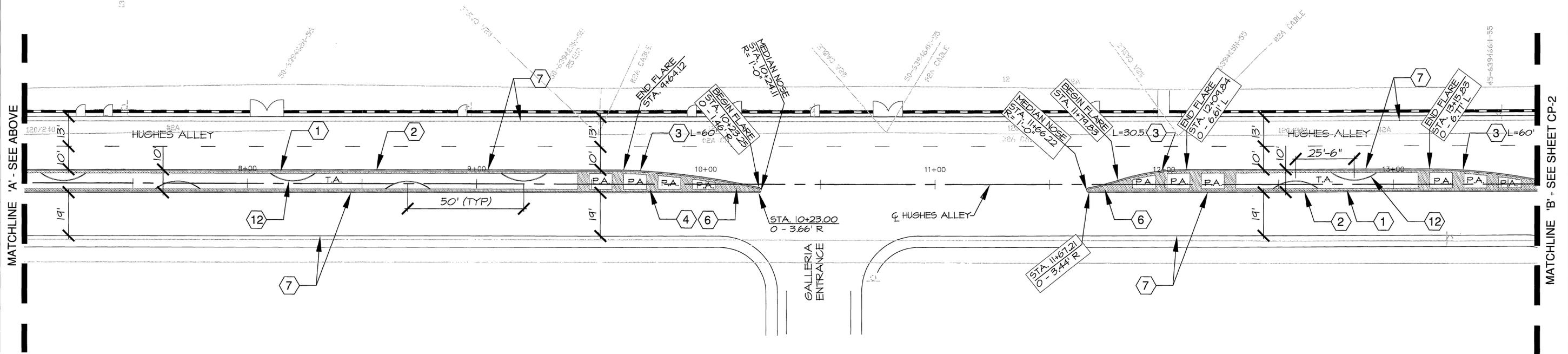
T-1

SHEET 1 OF 11

INDEXED 6-09-08 4H



SEE SHEET CP-2 FOR CONSTRUCTION LEGEND



ID
LA
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RIVERSIDE, CA 92501
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CORRECTIONS MODIFICATION ON 5/18/08	
MARK	REVISIONS
APPR.	DATE
DESIGNED BY	LD
DRAWN BY	SS
CHECKED BY	LD

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT		
APPROVED BY	BY	DATE
CONST. CONTRACT ADMIN.	SS	5/18/08
PRINCIPAL ENGINEER	SS	5/18/08
STREET SERVICES	SS	5/18/08
SURVEYOR	SS	5/18/08
TRAFFIC DIVISION	SS	5/18/08
PARKS DEPARTMENT	SS	5/18/08
LANDSCAPE	SS	5/18/08

CITY OF RIVERSIDE
HUGHES ALLEY
STREET IMPROVEMENT PROJECT
LANDSCAPE PLANS
CONSTRUCTION PLAN

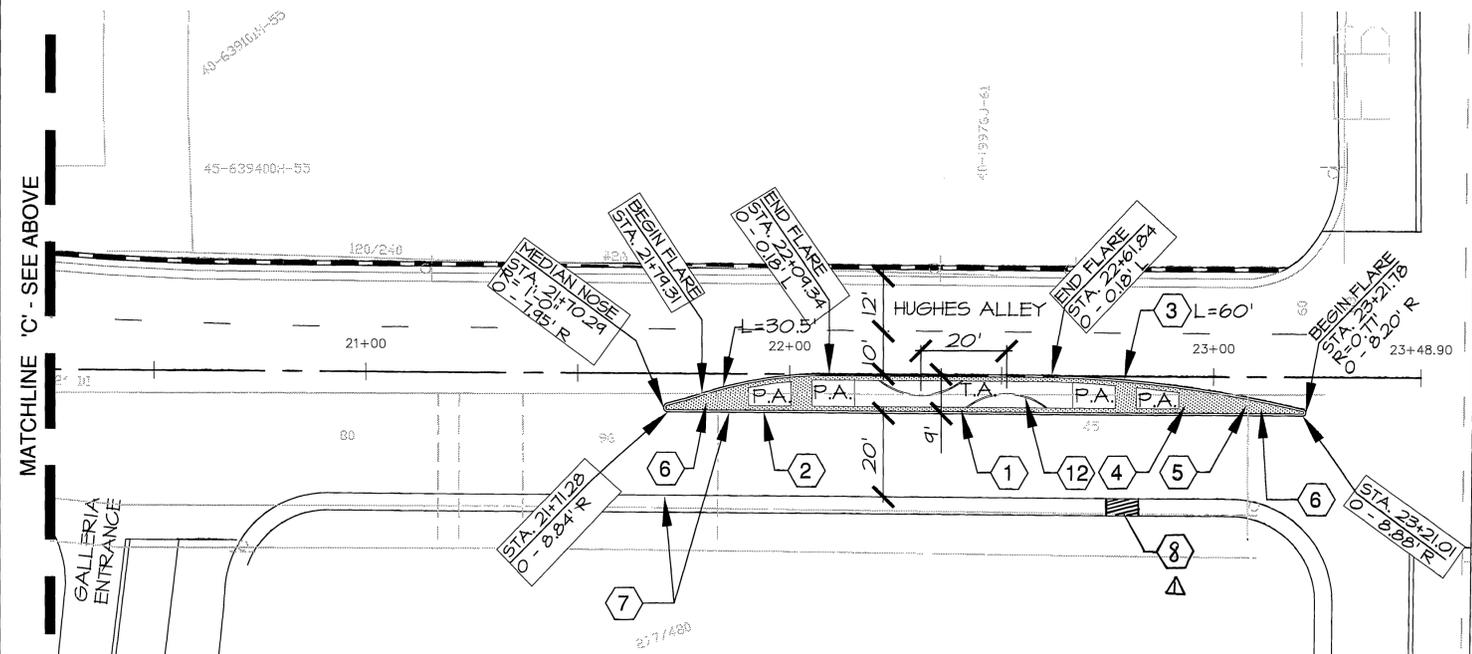
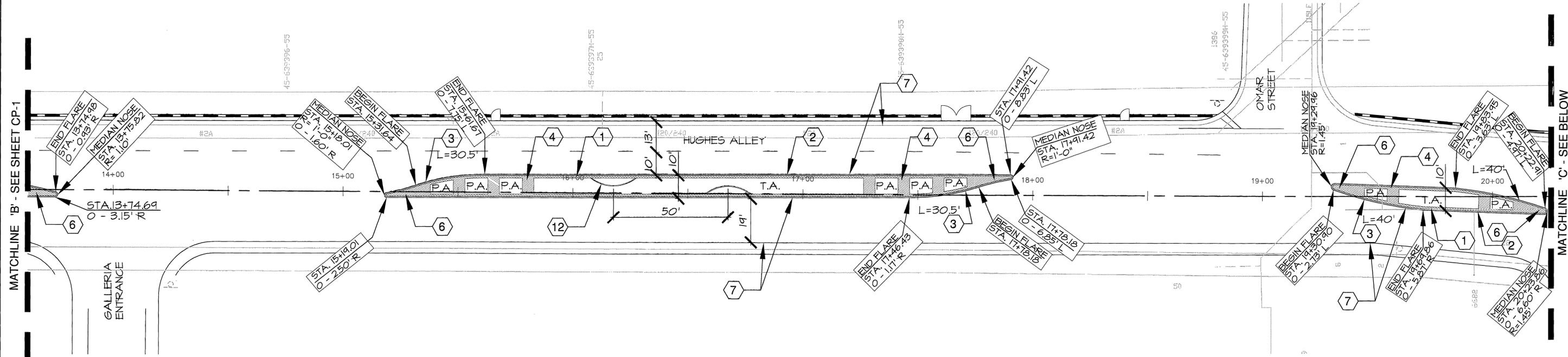
R-4090
ACCT. NO. XXXXXXXXXXX-XXXXXXXXX
CP-1
SHEET 2 OF 11

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TWO WORKING DAYS BEFORE YOU DIG

MATCHLINE 'B' - SEE SHEET CP-1

MATCHLINE 'C' - SEE ABOVE

MATCHLINE 'C' - SEE BELOW

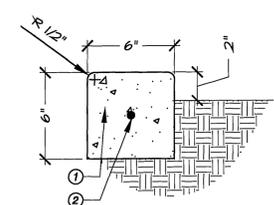


CONSTRUCTION NOTES

- 1 CONSTRUCT 1' WIDE STAMPED CONCRETE WALK. PATTERN & COLOR PER ITEM #4 BELOW
- 2 CONSTRUCT CURB & GUTTER PER CITY STD. DETAIL # 200, TYPE II (B' CURB FACE)
- 3 CONSTRUCT MEDIAN PER CITY STD. DETAIL # 121, 123
- 4 STAMPED CONCRETE PAVING PATTERN: PER OWNER COLOR: PER OWNER
- 5 UPCOMING MEDIAN TRAFFIC SIGNAGE BY OWNER
- 6 REFLECTIVE MEDIAN SIGNAGE BY OWNER
- 7 COLD MILL 0-15" OF EXISTING A.C. PAVEMENT BETWEEN EXISTING GUTTER LIP AND PROPOSED MEDIAN CURB. AFTER COLD MILLING 0-15" EXISTING A.C., REMOVE AND REPLACE FAILED PAVEMENT AREAS WITH 6" A.C. (B-PG-64-10) OVERLAY THE ENTIRE ROADWAY WIDTH WITH 0.15" AR HM-G 6 (C2-PG-64-10).

ABBREVIATIONS

- 8 REMOVE & REPLACE SIDEWALK PER CITY STD. 325
 - 9 REMOVE & REPLACE DRIVEWAY PER CITY STD. 302 TYPE CURB I
 - 10 REMOVE & REPLACE CURB & GUTTER PER CITY STD. DETAIL #200, MATCH EXISTING
 - 11 REMOVE & REPLACE CURBED WHEELCHAIR RAMP PER CITY STD. DETAIL 304 TYPE II. RELOCATE EXISTING METAL PLATE. LOCATION BY OWNER. MEMORIAL Δ
 - 12 CONSTRUCT CONCRETE MOW CURB PER DETAIL #A, SHT. CP-2
- P.A. - PLANTED AREA
T.A. - TURF AREA
O - OFFSET
R - RIGHT
L - LEFT



DETAIL NOTES:

- 1. 6"x6" CONCRETE MOW CURB 2500 PSI @ 28 DAYS TYPE: NATURAL GRAY CONG. FINISH: SMOOTH TROWEL EDGES TO HAVE 1/2" RADIUS TYP.
- 2. #4 HORIZ. CONT. AT CENTER LAP BARS @ 8" AT SPLICES AND TIE

GENERAL NOTES:

INSTALL 1/2" PREFORMED FIBER EXPANSION JOINTS @ 15' O.C. TYP. AND AT BEGINNING AND END OF ALL RADII

FINISH GRADE:
1" BELOW TOP OF MOW CURB FOR TURF AREAS
2" BELOW TOP OF MOW CURB FOR GROUND COVER AREAS

A CONC. MOW CURB NOT TO SCALE

10/18/09 11:52 AM J:\100\A\10007\Hughes_A_Street_Improvement_Landscape_Plan.dwg User: Sarah_Schmitt Plot: 10/18/09 11:52 AM

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RIVERSIDE, CA 92501
951 683 1283 FAX 951 683 4352
E-MAIL: IDAVIDSON@IDLAINE.COM

REGISTERED LANDSCAPE ARCHITECT
STATE OF CALIFORNIA
Signature: Ian Davidson
6/30/09
Exp. Date: 6/30/10

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT

APPROVED BY	BY	DATE	APPROVED BY
CONST. CONTRACT ADMIN.	SA	5/10/08	[Signature]
PRINCIPAL ENGINEER	SA	5/10/08	[Signature]
STREET SERVICES	SA	5/10/08	[Signature]
SURVEYOR	SA	5/10/08	[Signature]
TRAFFIC DIVISION	SA	5/10/08	[Signature]
PARKS DEPARTMENT	SA	5/10/08	[Signature]
DESIGNED BY	LD	DRAWN BY	SS
CHECKED BY	LD		

CITY OF RIVERSIDE HUGHES ALLEY STREET IMPROVEMENT PROJECT LANDSCAPE PLANS CONSTRUCTION PLAN

ACCT. NO. XXXXXXXXXXX-XXXXXXXXX

CP-2

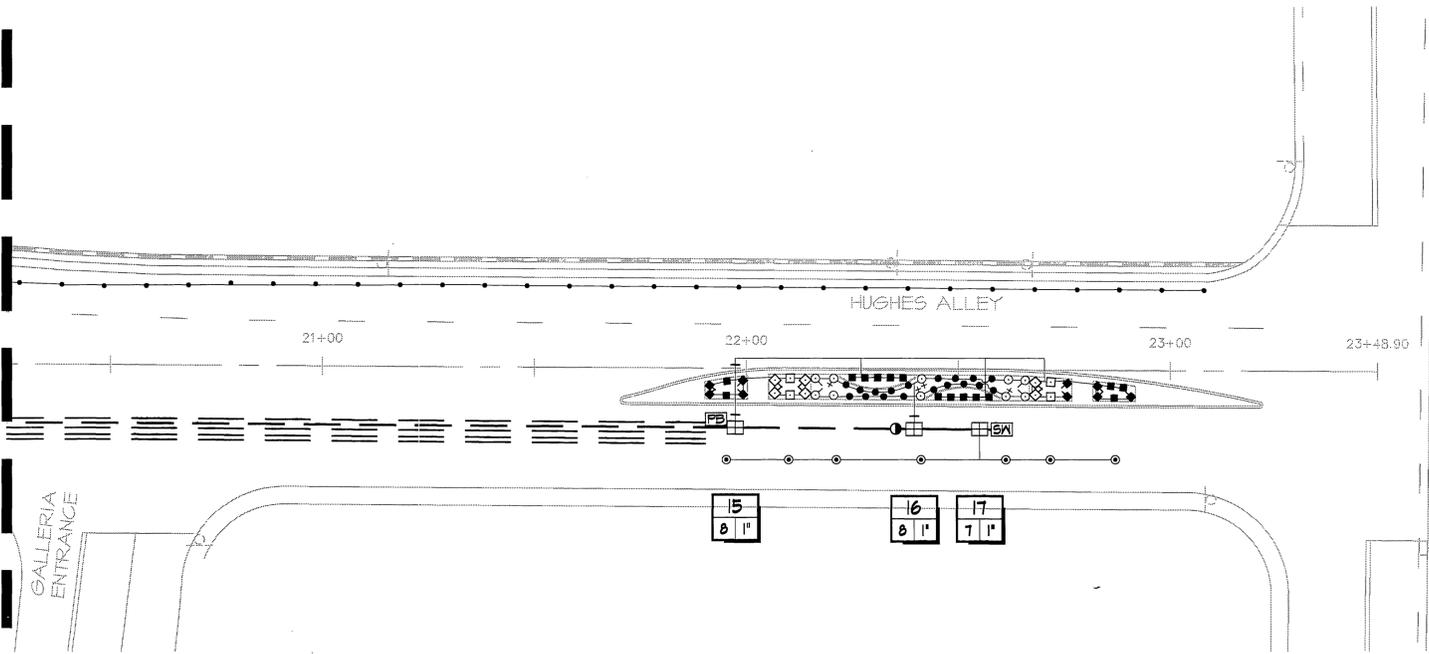
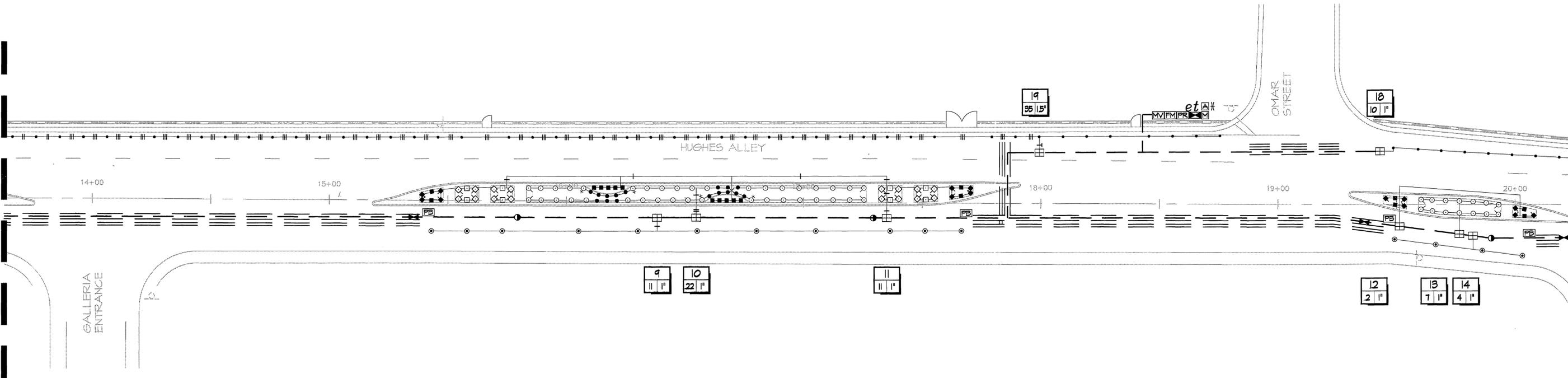
SHEET 3 OF 11

INDEXED 6-09-08 lfh

MATCHLINE 'B' - SEE SHEET IR-1

MATCHLINE 'C' - SEE ABOVE

MATCHLINE 'C' - SEE BELOW



POINT OF CONNECTION
MAKE IRRIGATION POINT OF CONNECTION DOWNSTREAM FROM EXISTING SITE BACKFLOW PREVENTER. VERIFY EXACT LOCATION IN THE FIELD AND ADJUST AS NECESSARY. INSTALL BALL VALVE AT POC FOR NEW IRRIGATION SYSTEM ISOLATION. INSTALL MASTER VALVE DOWNSTREAM OF BACKFLOW DEVICE AND WIRE TO CONTROLLER PER MANUFACTURER'S DIRECTIONS. MAXIMUM DEMAND IS 37 GPM. STATIC PRESSURE AT METER IS 95 PSI, MEASURED AT SITE ON JANUARY 24, 2008.

CONTROLLER
INSTALL IRRIGATION CONTROLLER AS SHOWN ON THE PLANS. FINAL CONTROLLER LOCATION TO BE APPROVED IN THE FIELD BY THE CITY. THE CITY IS TO PROVIDE 120V AC POWER TO THE FINAL CONTROLLER LOCATION. THE IRRIGATION CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS PER LOCAL CODES. MOUNT, GROUND, AND WIRE ALL THE CONTROL EQUIPMENT PER THE MANUFACTURER'S DIRECTIONS, THESE PLANS, AND PER ALL LOCAL CODES.

SLEEVING
MAINLINE AND VALVES SHOWN OUTSIDE OF PLANTED AREAS FOR CLARITY ONLY. INSTALL ALL IRRIGATION EQUIPMENT IN ADJACENT PLANTED AREAS EXCEPT WHERE SLEEVING IS SHOWN ON THE PLANS. ALL PIPES AND WIRES THAT MUST RUN UNDER HARDSCAPE TO BE SLEEVED IN CL 315 PVC SLEEVES ACCORDING TO THE SLEEVING CHART.

*CONTROL WIRE SHALL BE 14 GA UF; COMMON WIRE SHALL BE GRAY COLORED 12 GA UF
REFER TO CITY OF RIVERSIDE IRRIGATION DETAILS

SCH 40 PVC SLEEVING		
1.25" SLEEVE	1-8 WIRES	N/A
1.5" SLEEVE	4-16 WIRES	0.5" PIPE
2" SLEEVE	17-26 WIRES	0.75" PIPE
2.5" SLEEVE	27-38 WIRES	1" PIPE
3" SLEEVE	34-54 WIRES	1.25" PIPE
4" SLEEVE	55-100 WIRES	1.5"/2" PIPE
6" SLEEVE	100+ WIRES	2.5"/3" PIPE
8" SLEEVE	N/A	4" PIPE
12" SLEEVE	N/A	6" PIPE

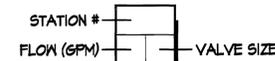
SPRINKLER LEGEND											
SYMBOL	MANUFACTURER / MODEL	NOZZLE	RAD	PSI	FLOW - GPM					DETAIL	
					Q	T	H	TT	TQ		F
TURF POP-UP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
○	RAIN BIRD 1806-SAM-PRS-8	Q/T/H/F	8'	30	.26	.35	.52			1.1	O, IR-4
SHRUB HI-POP SPRAY HEADS WITH CHECK VALVE AND PRESSURE REGULATION											
□	RAIN BIRD 1812-SAM-PRS-8	Q/T/H/F	8'	30	.10	.13	.20			.41	O, IR-4
□	RAIN BIRD 1812-SAM-PRS-8	Q/T/H/F	8'	30	.26	.35	.52			1.1	O, IR-4
□	RAIN BIRD 1812-SAM-PRS-8-B	Q/H/F/CST	8'	30	0.5/1.0/1.5/0.5						
TREE BUBBLERS											
○	RAIN BIRD 1402 (X 2)	N/A	N/A	30	0.5 X 2						P, IR-4
VINE BUBBLERS											
•	RAIN BIRD 1401	N/A	N/A	30	0.25						P, IR-4

PIPE SIZING	
—	0.75" PIPE
—	1" PIPE
—	1.25" PIPE
—	1.5" PIPE
—	2" PIPE
—	2.5" PIPE
—	3" PIPE
—	4" PIPE
—	6" PIPE
—	8" PIPE

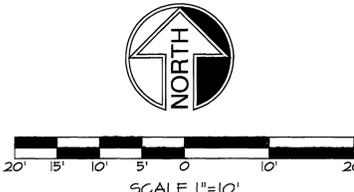
PRESSURE LOSS CALCULATIONS (STATION 1 - HIGHEST FLOW, 37 GPM)		
EQUIPMENT	SIZE	LOSS
WATER METER	1.5"	2.8
BACKFLOW DEVICE	1.5"	2.2
FLOW SENSOR	1"	1.0
MASTER VALVE	1.5"	1.7
MAINLINE	1700' OF 2"	20.8
CONTROL VALVE	1.5"	1.7
LATERAL LINES	6 FPS	9.5
SUBTOTAL PRESSURE LOSSES		39.7
MISC. LOSSES THRU SYSTEM (10%)		3.4
ELEVATION GAIN (FT)		-1.5
TOTAL PRESSURE LOSSES		35.8
PRESSURE REQUIRED AT HEAD		30.0
TOTAL PRESSURE REQUIRED		65.8
STATIC PRESSURE AVAILABLE		95.0
REGULATED PRESSURE		80.0
RESIDUAL PRESSURE		14.2

EQUIPMENT LEGEND			
SYMBOL	MANUFACTURER / MODEL NUMBER	SIZE	DETAIL
M	EXISTING WATER METER - SEE POINT OF CONNECTION NOTE ON PLANS	1.5"	N/A
A	"A" CONTROLLER. SHALL BE CALSENSE ET2000S-324-IR-RRR-LR-DOME-RRR-THE CALSENSE ET2000S, TP-1 BOARD AND TP-10 LINE SURGE PROTECTOR SHALL BE INSTALLED IN A MYERS POWER PRODUCTS CAT. NO. MEUS22X-ENC-RIV S.S. ENCLOSURE MOUNTED ON A PADMOUNT BASE (MYERS PART NO. 51910), TO SUPPORT ALL MATERIALS REQUIRED BY CITY AGENCIES, OR EQUAL THAT IS COMPATIBLE WITH CITY'S IRRIGATION CENTRAL CONTROL SYSTEM.	ANTENNA 32 34-STATION	A, IR-3
MB	EXISTING WATER REDUCED PRESSURE BACKFLOW PREVENTER	1.5"	B, IR-3
MY	MASTER VALVE. SUPERIOR TYPE BRASS, MODEL NUMBER #50DM, NON PRESSURE REGULATING. SUPERIOR 3100	1.5"	C, IR-3
PR	WILKINS 500 SERIES PRESSURE REGULATING VALVE - BRASS	1.5"	I, IR-4
FM	FLOW METER. CALSENSE FLOW METER OR CONTROLLER MANUFACTURER APPROVED EQUAL, SIZED ACCORDING TO MAXIMUM AND MINIMUM FLOW REQUIREMENTS AND PERMISSIBLE PRESSURE LOSS THROUGH METER.	1"	J, IR-4
Y	TIPPING RAIN BUCKET. INSTALL ON CONTROLLER "A", CALSENSE MODEL RB-1 INSTALLED PER CITY DETAIL #4020	N/A	K, IR-4
et	ET GAUGE. INSTALL ON CONTROLLER "A", CALSENSE MODEL ET6 MOUNTED INSIDE ET6 S5 ENCLOSURE INSTALLED PER CITY DETAIL #4021	N/A	L, IR-4
PB	CONCRETE FULL BOX WITH CAST IRON COVER	N/A	N, IR-4
SA	SPARE WIRE BOX. SHALL BE CONCRETE BOX WITH NON-HINGED LOCKING CAST IRON LID MARKED "SW", WITH THREE-FOOT LOOP OF SPARE WIRE CAPPED WITH WIRE CONNECTORS. SPARE COMMON AND TWO PILOT WIRES, ONE SET AT EACH TERMINATING END OF MAINLINE.	N/A	N, IR-4
IV	ISOLATION VALVE. SHALL BE NIBCO CLASS 125 BRONZE MODEL #T-13-K GATE VALVE OR EQUAL	LINE SIZE	C, IR-3
Q	QUICK COUPLER. SHALL BE RAINBIRD MODEL #44-LRC, BRASS, OR EQUAL	1"	E, IR-3
RV	REMOTE CONTROL VALVE. SHALL BE BRASS SUPERIOR #450-DWFRS REGULATING, OR EQUAL	PLAN SIZE	F, IR-3
---	MAINLINE/CONSTANT PRESSURE PIPE. SHALL BE CLASS 315	PLAN SIZE	G, IR-3
---	LATERAL LINE/INTERMITTENT PIPE. SHALL BE SCH 40 PVC	PLAN SIZE	G, IR-3
---	SLEEVING. MAINLINE SLEEVING SHALL BE CLASS 315 PVC. WIRE SLEEVING SHALL BE SCH 40 PVC, 2" MINIMUM	PLAN SIZE	H, IR-3
NOT SHOWN	UF DIRECT BURIAL CONTROL WIRE WITH WATERPROOF CONNECTIONS*	N/A	MN, IR-4

POINT OF CONNECTION 'A' - POTABLE
WATER METER #1
METER SIZE - 1.5"
BACKFLOW PREVENTER SIZE - 1.5"
PRESSURE REGULATOR - 1.5" (SET TO 80 PSI)
FLOW SENSOR - 1"
MASTER VALVE - 1.5"
MAXIMUM DEMAND - 37 GPM
NUMBER OF VALVES - 19
CONTROLLER SIZE - 34-STATION 32 STATION S
STATIC PRESSURE AT METER - 95 PSI
AREA SHRUBS - 1856 SQ. FT.
AREA TURF - 4617 SQ. FT.
TOTAL AREA COVERED - 6,473 SQ. FT.



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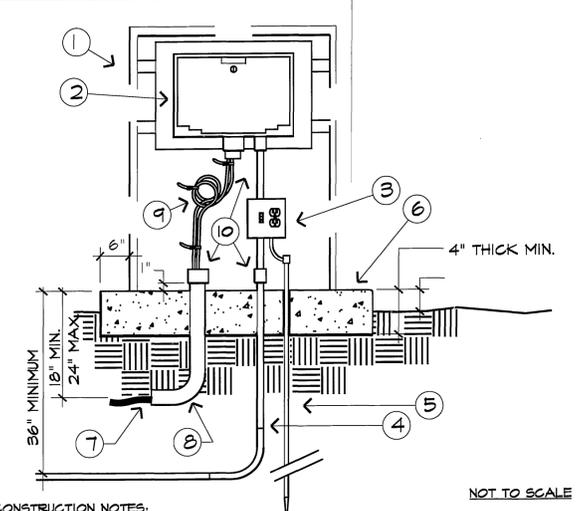
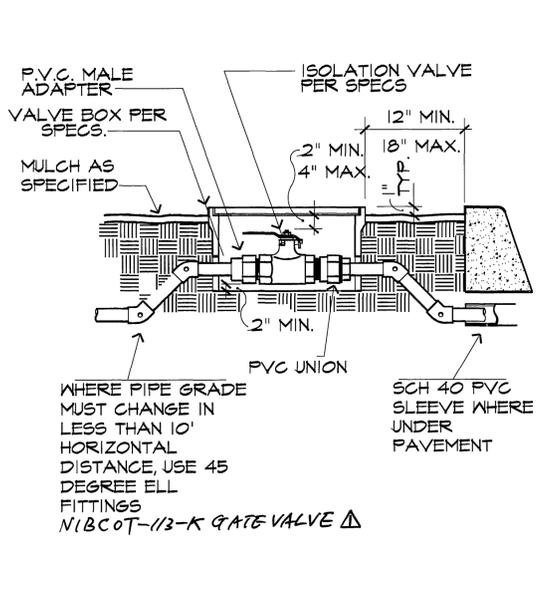
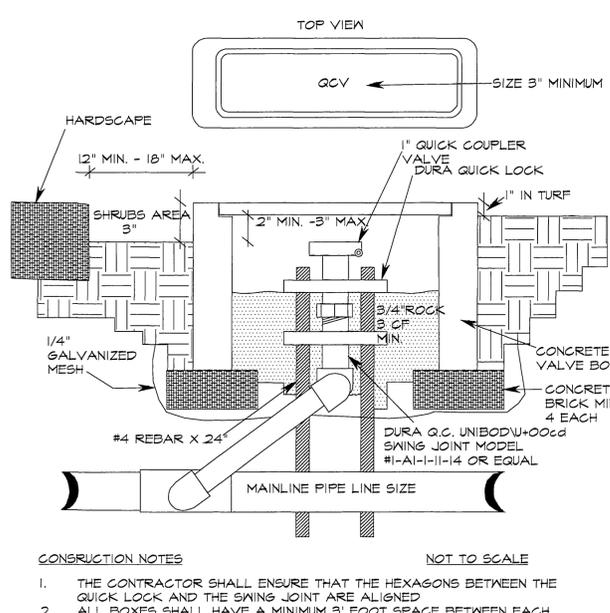
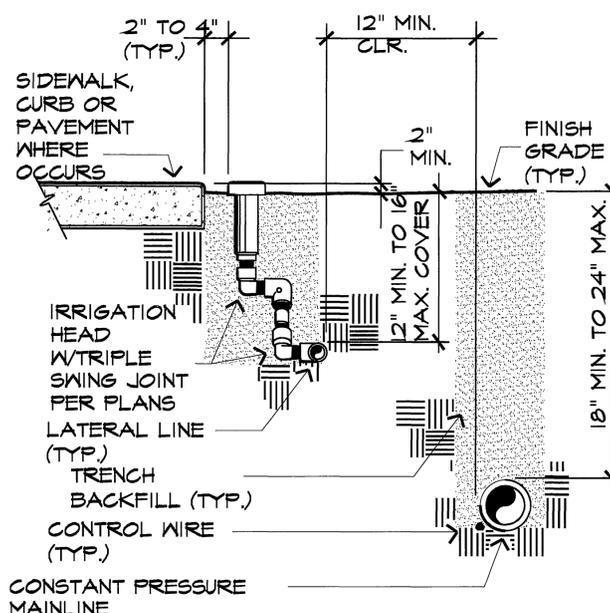


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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature]
DATE: 5/14/08
CORRECTION & MODIFICATION 5/15/08

CITY OF RIVERSIDE
HUGHES ALLEY
STREET IMPROVEMENT PROJECT
LANDSCAPE PLANS
IRRIGATION PLAN
ACCT. NO. XXXXXXXXXX-XXXXXXX
IR-2
SHEET 5 OF 11



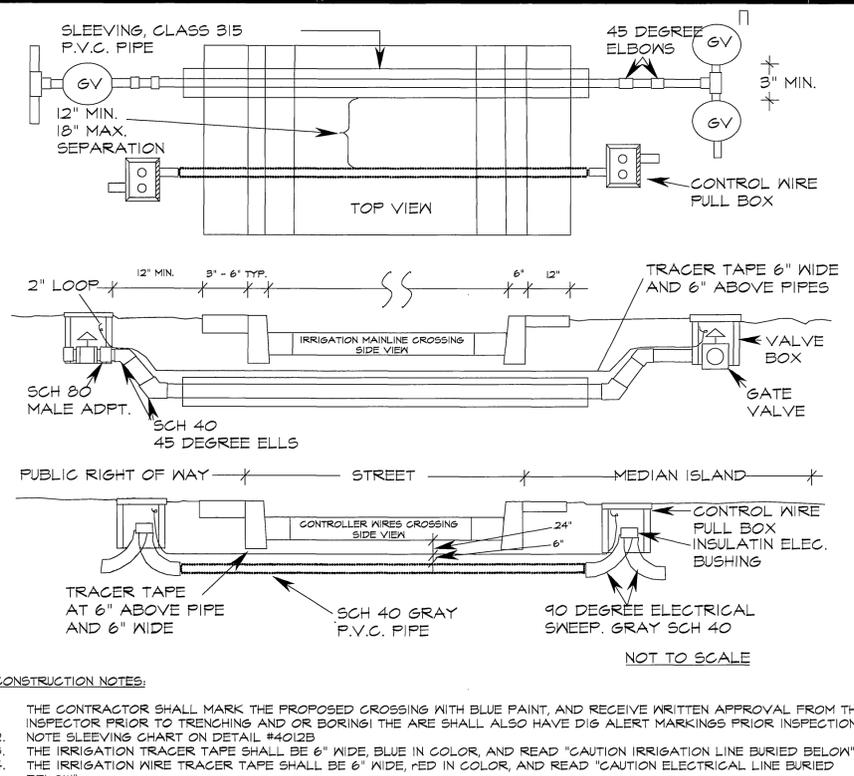
- CONSTRUCTION NOTES:
1. STRONG BOX STAINLESS STEEL ENCLOSURE, MODEL SIZED TO FIT CONTROLLER, WITH SERVICE ADDRESS STENCILED ON LOCKING HINGED DOOR. SECURELY ANCHOR ENCLOSURE TO CONCRETE PAD.
 2. WEATHER PROOF AUTOMATIC CONTROLLER, SECURELY WALL MOUNTED TO ENCLOSURE.
 3. SQUARE D BREAKER BOX MODEL QO2-4L705, OR APPROVED EQUAL WITH SINGLE 15 AMP BREAKER AND DUPLEX OUTLET. MAKE 120 V POWER AND GROUND CONNECTION AT BREAKER BOX. MOUNT IN ENCLOSURE.
 4. 3-#8 CU THN WIRES IN MIN. 2\"/>

G TRENCHING

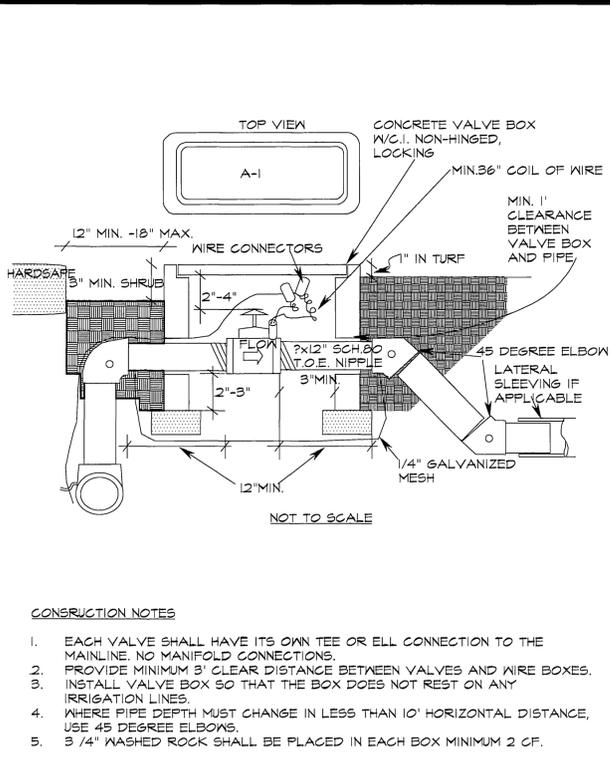
E QUICK COUPLER

C ISOLATION VALVE

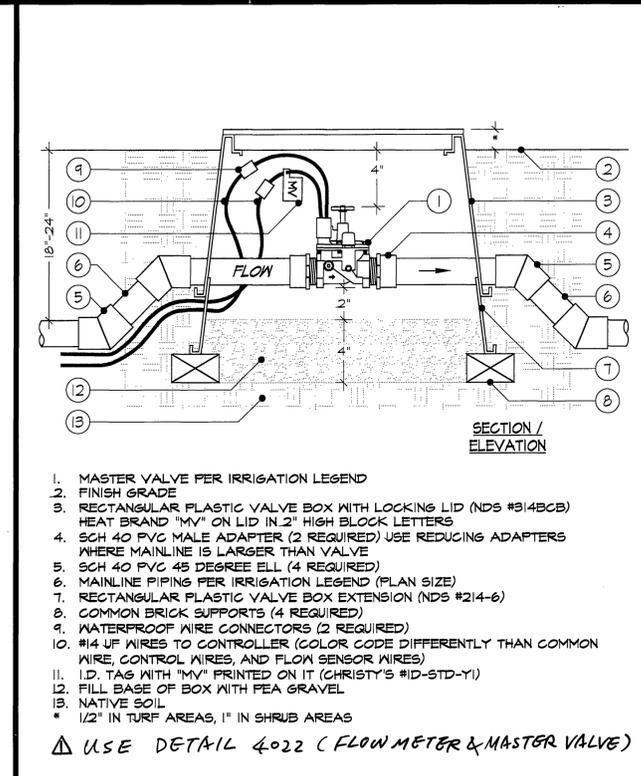
A CONTROLLER



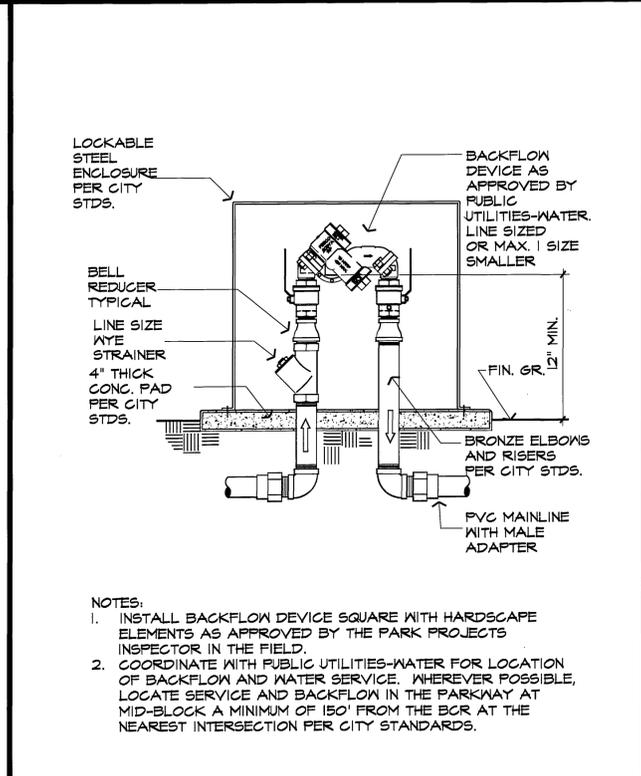
- CONSTRUCTION NOTES:
1. THE CONTRACTOR SHALL MARK THE PROPOSED CROSSING WITH BLUE PAINT, AND RECEIVE WRITTEN APPROVAL FROM THE INSPECTOR PRIOR TO TRENCHING AND OR BORING! THE ARE SHALL ALSO HAVE DIG ALERT MARKINGS PRIOR INSPECTION. NOTE SLEEVING CHART ON DETAIL #4012B
 2. THE IRRIGATION TRACER TAPE SHALL BE 6\"/>



- CONSTRUCTION NOTES:
1. EACH VALVE SHALL HAVE ITS OWN TEE OR ELL CONNECTION TO THE MAINLINE. NO MANIFOLD CONNECTIONS.
 2. PROVIDE MINIMUM 3\"/>



1. MASTER VALVE PER IRRIGATION LEGEND
 2. FINISH GRADE
 3. RECTANGULAR PLASTIC VALVE BOX WITH LOCKING LID (NDS #314BCB) HEAT BRAND "MY" ON LID IN 2\"/>
- Δ USE DETAIL 4022 (FLOW METER & MASTER VALVE)



- NOTES:
1. INSTALL BACKFLOW DEVICE SQUARE WITH HARDSCAPE ELEMENTS AS APPROVED BY THE PARK PROJECTS INSPECTOR IN THE FIELD.
 2. COORDINATE WITH PUBLIC UTILITIES-WATER FOR LOCATION OF BACKFLOW AND WATER SERVICE. WHEREVER POSSIBLE, LOCATE SERVICE AND BACKFLOW IN THE PARKWAY AT MID-BLOCK A MINIMUM OF 150' FROM THE BCR AT THE NEAREST INTERSECTION PER CITY STANDARDS.

H SLEEVING

F CONTROL VALVE

D MASTER VALVE

B BACKFLOW PREVENTER

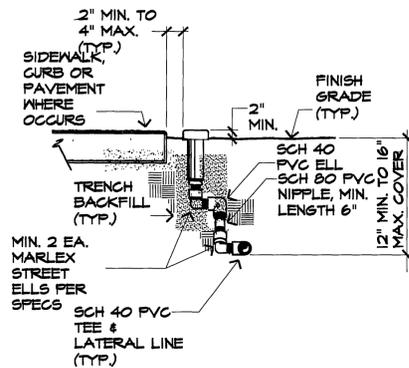
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IAN DAVIDSON, LANDSCAPE ARCHITECTURE
1744 10TH STREET, SUITE 200
RIVERSIDE, CA 92501
951 683 1283 FAX 951 683 4352
E-MAIL: IDAVIDSON@DLAINC.COM

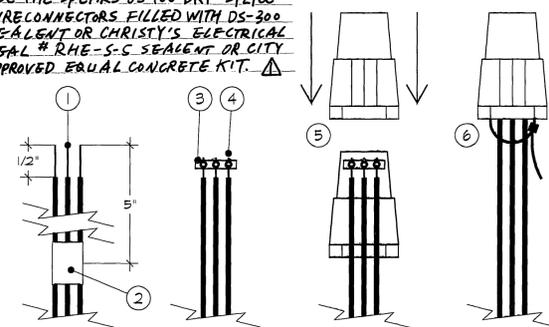
REGISTERED LANDSCAPE ARCHITECT
IAN DAVIDSON
STATE OF CALIFORNIA
8/30/09

CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT
APPROVED BY: [Signature]
CONST. CONTRACT ADMIN. DATE: 5/18/08
PRINCIPAL ENGINEER DATE: 5/18/08
STREET SERVICES DATE: 5/18/08
SURVEYOR DATE: 5/18/08
TRAFFIC DIVISION DATE: 5/18/08
PARKS DEPARTMENT DATE: 5/18/08

CITY OF RIVERSIDE
HUGHES ALLEY
STREET IMPROVEMENT PROJECT
LANDSCAPE PLANS
IRRIGATION DETAILS
ACCT. NO. XXXXXXXXXX-XXXXXXX
IR-3
SHEET 6 OF 11

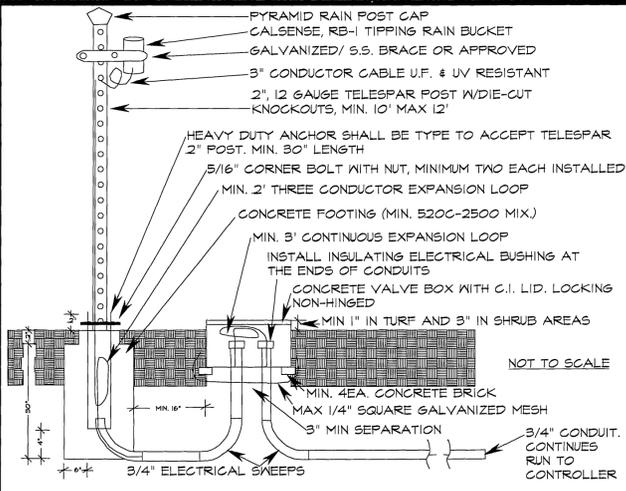


USE THE SPEARS DS-100 DRI-SPLICE WIRE CONNECTORS FILLED WITH DS-300 SEALANT OR CHRISTY'S ELECTRICAL SEAL # RHE-S-S SEALANT OR CITY APPROVED EQUAL CONCRETE KIT. ⚠

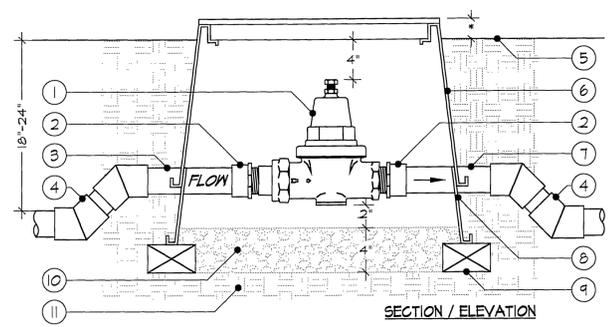


1. STRIP ABOUT 1/2" OFF END OF WIRE INSULATION.
2. TAPE WIRES TOGETHER WITH ELECTRICAL TAPE ABOUT 5" FROM THE END.
3. INSERT WIRES SECURELY INTO CONNECTOR BAR AND TIGHTEN HEX SCREWS WITH ALLEN WRENCH. TIGHTEN TO A MINIMUM TORQUE OF 45 INCH-POUNDS.
4. TRIM THE END OF THE WIRES AS NECESSARY SO THEY STICK OUT PAST THE BAR NO LONGER THAN 1/4". NON-TRIMMED WIRES MAY PREVENT COMPLETE INSERTION.
5. INSERT THE WIRES AND CONNECTOR BAR INTO THE GEL-FILLED ENCLOSURE SO IT BOTTOMS OUT AND SLIDES PAST THE LOCKING RAMPS. CLOSE THE LID AND SNAP THE COVER SHUT.
6. THREAD THE CABLE TIE THROUGH THE SLOTTED HOLES AND SECURE THE WIRES TO THE CONNECTOR BODY. TRIM EXCESS CABLE TIE IF NECESSARY.

NOTES: SEE NOTE ON TOP ⚠
USE THE FAISE #DD14 DIRECT BURIAL CONNECTOR KIT. MAKE ALL WATERPROOF WIRE CONNECTIONS PER THE MANUFACTURER'S DIRECTIONS.



- CONSTRUCTION NOTES
1. THE RAIN BUCKET SHALL NOT BE INSTALLED WITHIN A 25' RADIUS OF ANY TREE
 2. THE INSTALLATION SHALL BE CERTIFIED IN WRITING BY CALSENSE
 3. THE MAXIMUM LENGTH OF CABLE WHICH CAN BE USED IS 200'
 4. THE LOCATION SHALL BE APPROVED BY THE LANDSCAPE MAINT. INSPECTOR
 5. THE POLE AND RAIN BUCKET SHALL BE LEVEL



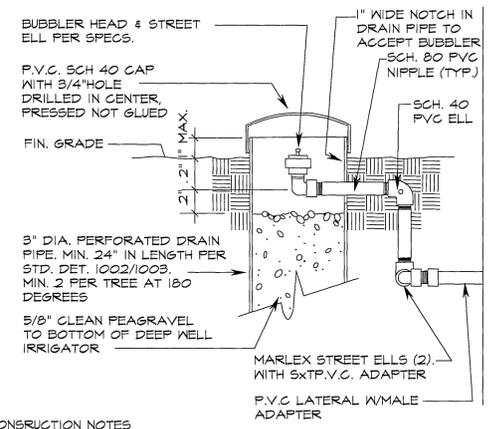
1. PRESSURE REGULATOR PER IRRIGATION LEGEND (SET PRESSURE AS CALLED FOR ON THE FLANS)
2. SCH 40 PVC MALE ADAPTER (2 REQUIRED) USE REDUCING ADAPTERS WHERE MAINLINE IS LARGER THAN REGULATOR
3. MAINLINE PIPING FROM POINT OF CONNECTION (PLAN SIZE)
4. SCH 40 PVC 45 DEGREE ELL (4 REQUIRED)
5. FINISH GRADE
6. RECTANGULAR PLASTIC VALVE BOX WITH LOCKING LID (NDS #314BCB) HEAT BRAND "PR" ON LID IN 2" HIGH BLOCK LETTERS
7. MAINLINE PIPING TO IRRIGATION SYSTEM (PLAN SIZE)
8. RECTANGULAR PLASTIC VALVE BOX EXTENSION (NDS #214-6)
9. COMMON BRICK SUPPORTS (4 REQUIRED)
10. FILL BASE OF BOX WITH PEA GRAVEL
11. NATIVE SOIL
- * 1/2" IN TURF AREAS, 1" IN SHRUB AREAS

O SPRAY HEAD

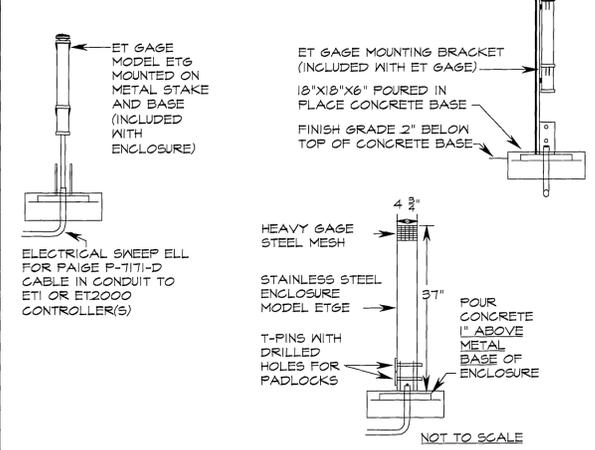
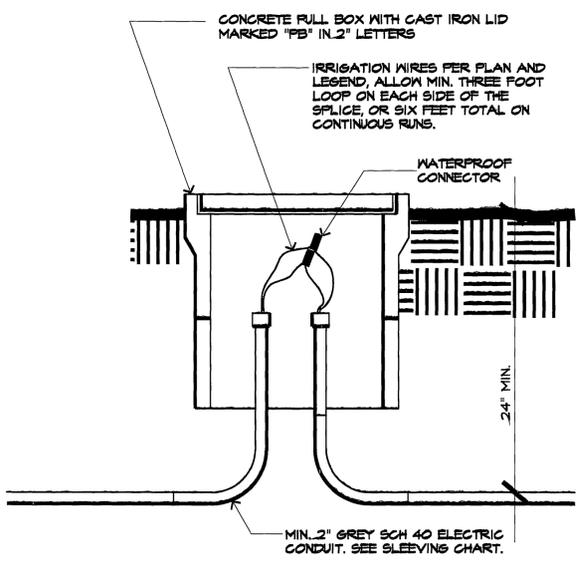
M WIRE CONNECTOR

K RAIN BUCKET

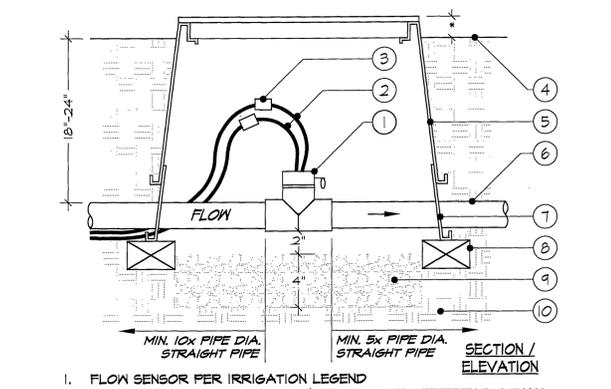
I PRESSURE REGULATOR



- CONSTRUCTION NOTES
1. EACH TREE SHALL HAVE A MINIMUM OF TWO DEEP WELL IRRIGATORS
 2. THE DEEP WELL IRRIGATORS SHALL BE IRRIGATED SEPARATED FROM THE SHRUBS AND TURF AREAS
- NOT TO SCALE



- CONSTRUCTION NOTES
1. INSTALLATION OF ET GAUGE SHALL BE CERTIFIED BY MANUFACTURER
 2. THE PROPOSED LOCATION SHALL BE SPOTTED BY THE CONTRACTOR, WITH THE FINAL LOCATION APPROVED BY THE LANDSCAPE INSPECTOR.
 3. THE ET GAUGE SHALL BE LEVEL
 4. THE CABLE (P-7171-D) SHALL RUN CONTINUOUSLY FROM THE ET GAUGE TO THE CONTROLLER IN A SEPARATE 1" PVC GRAY CONDUIT



1. FLOW SENSOR PER IRRIGATION LEGEND
2. #14 UF WIRES TO CONTROLLER (COLOR CODE DIFFERENTLY THAN COMMON WIRE, CONTROL WIRES, AND MASTER VALVE WIRES)
3. WATERPROOF WIRE CONNECTORS (2 REQUIRED)
4. FINISH GRADE
5. RECTANGULAR PLASTIC VALVE BOX WITH LOCKING LID (NDS #314BCB) HEAT BRAND "FS" ON LID IN 2" HIGH BLOCK LETTERS
6. MAINLINE PIPING PER IRRIGATION LEGEND (SENSOR SIZE)
7. RECTANGULAR PLASTIC VALVE BOX EXTENSION (NDS #214-6)
8. COMMON BRICK SUPPORTS (4 REQUIRED)
9. FILL BASE OF BOX WITH PEA GRAVEL
10. NATIVE SOIL
- * 1/2" IN TURF AREAS, 1" IN SHRUB AREAS

P DEEP WELL IRRIGATOR

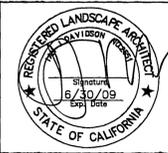
N PULL BOX

L ET GAUGE

J FLOW METER

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CITY OF RIVERSIDE, CALIFORNIA
PUBLIC WORKS DEPARTMENT

APPROVED BY: [Signature] DATE: 5/21/08
BY: [Signature] DATE: 5/21/08
CONSTR. CONTRACT ADMIN. PRINCIPAL ENGINEER
STREET SERVICES SURVEYOR
TRAFFIC DIVISION PARKS DEPARTMENT
DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature]

REVISIONS: 1. CORRECTION & MODIFICATION 5/21/08

CITY OF RIVERSIDE
HUGHES ALLEY
STREET IMPROVEMENT PROJECT
LANDSCAPE PLANS
IRRIGATION DETAILS

R-6090
ACCT. NO. XXXXXXXXXXX-XXXXXXXX
IR-4
SHEET 7 OF 11

INDEXED 6-09-08 LFL

IRRIGATION NOTES AND SPECIFICATIONS

1. GENERAL - ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND THESE PLANS. THE CONTRACTOR SHALL APPLY FOR ALL PERMITS AND PAY SAME.

A. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS AT THE SITE PRIOR TO COMMENCEMENT OF ANY WORK UNDER THIS CONTRACT.

B. THE CONTRACTOR SHALL CARRY ALL WORKERS COMPENSATION, PUBLIC LIABILITY AND PROPERTY DAMAGE INSURANCE, AS REQUIRED BY THE CITY AND/OR OWNER.

2. SCOPE OF WORK - UNLESS OTHERWISE SPECIFIED, THE CONSTRUCTION OF IRRIGATION SYSTEMS SHALL INCLUDE THE FURNISHING, INSTALLING AND TESTING OF ALL MAINLINE, POINT OF CONNECTION, LATERAL LINES, RISERS AND FITTINGS; AND THE FURNISHING AND INSTALLING OF SPRINKLER HEADS, CONTROLLER, ELECTRIC CONTROL VALVES, EXCAVATION AND BACKFILL AND ALL OTHER WORK IN ACCORDANCE WITH THESE PLANS, DETAILS, AND NOTES. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIAL, EQUIPMENT PROPERTY, TRANSPORTATION, AND PERFORM ALL OPERATIONS REQUIRED FOR A COMPLETE AND OPERABLE IRRIGATION SYSTEM AS INDICATED ON, OR REASONABLY IMPLIED BY THE DRAWINGS, DETAILS, AND NOTES. INCLUDED AS A PART OF THE IRRIGATION WORK, BUT NOT LIMITED BY IT, ARE THE FOLLOWING:

A. INSTALL COMPLETE OPERABLE INDEPENDENT IRRIGATION SYSTEMS PER THE PLANS, DETAILS, LEGENDS, AND NOTES.

B. ALL IRRIGATION WORK SHALL BE GUARANTEED BY THE CONTRACTOR AS TO MATERIAL AND WORKMANSHIP, INCLUDING SETTling OF BACKFILLED TRENCHES BELOW GRADE FOR A PERIOD OF ONE YEAR FOLLOWING THE DATE OF FINAL ACCEPTANCE OF THE WORK.

3. THE LANDSCAPE ARCHITECT SHALL DECIDE ALL QUESTIONS RELATING TO THE INTERPRETATION OF THE DRAWINGS AND THE ACCEPTABLE FULFILLMENT OF THE CONTRACT.

4. PIPING SHOWN ON THE PLANS IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL ROUTE PIPING TO AVOID CONFLICT WITH STATIONARY ELEMENTS AND IN SUCH A MANNER AS TO CONFORM WITH THE VARIOUS DETAILS AND DESIGN INTENT OF THESE PLANS.

5. THE CONTRACTOR SHALL AT ALL TIMES PROTECT HIS WORK FROM DAMAGE AND THEFT AND REPLACE ALL DAMAGED OR STOLEN PARTS AT HIS EXPENSE UNTIL THE WORK IS ACCEPTED IN WRITING BY THE OWNER/CITY.

6. EXTREME CARE SHALL BE EXERCISED IN EXCAVATING AND WORKING NEAR EXISTING UTILITIES. CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF ALL UTILITIES AND BE RESPONSIBLE FOR ANY DAMAGE. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT A MINIMUM OF TWO WORKING DAYS PRIOR TO DIGGING.

7. THE CONTRACTOR SHALL KEEP THE PREMISES CLEAN AND FREE OF EXCESS EQUIPMENT, MATERIALS, AND RUBBISH INCIDENTAL TO HIS WORK.

8. THE IRRIGATION DESIGN IS BASED ON THE METER SIZE AND WATER PRESSURE INDICATED ON THE WATER SOURCE / POINT OF CONNECTION NOTE ON THE PLANS. CONTRACTOR SHALL VERIFY THE PRESSURE PRIOR TO CONSTRUCTION. SHOULD A DISCREPANCY EXIST, NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING CONSTRUCTION.

9. CONTRACTOR SHALL MAKE POINT(S) OF CONNECTION (POC) AS NOTED ON THE PLANS. ALL FEES AND LOCAL REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

10. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING 120 VOLT SERVICE TO THE CONTROLLER. ELECTRICAL POWER WILL BE PROVIDED BY THE OWNER AT THE CONTROLLER LOCATION SHOWN ON THE PLAN.

11. CONTRACTOR SHALL PROVIDE ALL EQUIPMENT REQUIRED TO PERFORM A MAINLINE PRESSURE TEST. THE HYDROSTATIC TEST SHALL HOLD A MINIMUM OF 150 PSI FOR 3 HOURS OR MORE. CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE A MINIMUM OF 48 HOURS IN ADVANCE OF THE TEST FOR CERTIFICATION.

12. ALL WIRES SHALL BE SOLID COPPER, PLASTIC INSULATED, U.F. DIRECT BURIAL WIRE. ALL COMMON WIRE SHALL BE AWG #12 WHITE; ALL CONTROL WIRES SHALL BE AWG #14 RED OR BLACK. CONTROLLERS SHALL HAVE SEPARATE COLOR CODED COMMON WIRES WHEN TWO OR MORE CONTROLLERS ARE ON THE PROJECT.

13. ALL CONTROL WIRES AND IRRIGATION PIPING THAT RUNS UNDER HARDSCAPE / PAVING SHALL BE ENCASED IN SCH 40 PVC SLEEVES. SLEEVES SHALL BE SIZED ACCORDING TO THE SLEEVING CHART ON THE PLANS.

14. THE FINAL LOCATION FOR CONTROL VALVES SHALL BE APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT OR THE OWNER'S AUTHORIZED REPRESENTATIVE. ALL VALVES SHALL BE LOCATED IN SHRUB AREAS WHEREVER POSSIBLE.

15. THE CONTRACTOR SHALL HEAT BRAND VALVE NUMBERS ON INSIDE AND OUTSIDE OF ALL VALVE BOX LIDS.

16. ALL BRASS OR GALVANIZED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE OR LED-LUBE JOINT COMPOUND (OR APPROVED EQUAL). ALL PVC THREADED CONNECTIONS SHALL BE COATED WITH TEFLON TAPE.

17. ALL PVC SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH SOLVENT-WELD MATERIALS AS RECOMMENDED BY THE PIPE MANUFACTURER. SOLVENT-WELD PRIMER SHALL BE APPLIED AT ALL CONNECTIONS.

18. LOW HEAD DRAINAGE WILL NOT BE ALLOWED. CONTRACTOR TO DETERMINE IN THE FIELD WHICH HEADS DRAIN AFTER THE VALVE IS SHUT OFF. CONTRACTOR SHALL PROVIDE AND INSTALL ADDITIONAL IN-LINE CHECK VALVES AS NEEDED AT NO ADDITIONAL COST TO THE OWNER.

19. ALL PRESSURE SUPPLY LINES AND CONTROL WIRES TO HAVE 18"-24" MINIMUM COVER PER THE DETAIL. LATERAL LINES TO HAVE 12" MIN. COVER. SLEEVING IS TO HAVE 24" MIN. COVER.

20. THE RADIUS OF EACH HEAD IS TO BE ADJUSTED SO THAT HEAD-TO-HEAD COVERAGE IS MAINTAINED, BUT OVERSPRAY ON BUILDINGS, WALKS, WALLS, AND OTHER HARD SURFACES IS MINIMIZED.

21. CONTRACTOR SHALL INSTALL 2 EXTRA WIRES FROM CONTROLLER(S) TO EACH END OF THE MAINLINE. WIRES SHALL COME UP INTO ALL VALVE BOXES ALONG THE MAINLINE PATH WITH 36" EXPANSION COILS IN EACH BOX. SPARE WIRES SHALL BE COLOR-CODED DIFFERENTLY THAN OTHER CONTROL WIRES FOR EACH CONTROLLER.

22. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR IS TO TURN OVER TO THE OWNER THE FOLLOWING:

- A. A REPRODUCIBLE SET OF "AS-BUILT" DRAWINGS AND CONTROLLER CHART.
- B. 2 KEYS FOR EACH CONTROLLER / CONTROLLER ENCLOSURE (AS APPLICABLE).
- C. 2 QUICK COUPLER KEYS AND MATCHING HOSE SWIVELS.
- D. 4 OF EACH SPRINKLER HEAD SPECIFIED.

23. RECORD DRAWINGS - THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF PRINTS WHICH SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL TRANSCRIBE ALL INFORMATION FROM THE RECORD SET TO A REPRODUCIBLE OZALID SEPIA PROCURED FROM THE OWNER. ALL WORK SHALL BE NEAT AND LEGIBLE, LOCATING THE FOLLOWING ITEMS FROM PERMANENT POINTS OF REFERENCE: SHUT-OFF VALVES, MAINLINE AND CONTROL WIRE ROUTING, POC, BACKFLOW DEVICE, CONTROL VALVES, CONTROLLER, QUICK COUPLING VALVES, AND OTHER PERTINENT UNDERGROUND ITEMS.

24. "CONTROLLER CHART" - UPON APPROVAL OF THE FINAL RECORD DRAWINGS, PROVIDE ONE CHART FOR EACH CONTROLLER INSTALLED.

A. THE CHART IS TO BE A REDUCED COPY OF THE APPROVED RECORD DRAWING (A BLACK-LINE PRINT REDUCED TO THE MAXIMUM SIZE THE CONTROLLER DOOR WILL ALLOW, COLORED WITH A DIFFERENT COLOR FOR EACH VALVE STATION).

B. WHEN COMPLETED AND APPROVED, THE CHART SHALL BE HERMETICALLY SEALED BETWEEN TWO (2) PIECES OF .20 MIL. CLEAR PLASTIC AND MOUNTED ON THE INSIDE OF THE CONTROLLER DOOR USING VELCRO TAPE OR EQUAL.

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E-MAIL: IDAVIDSON@DLAINC.COM



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APPROVED BY	BY	DATE	APPROVED BY
CONTR. CONTRACT ADMIN.	<i>[Signature]</i>	5/10/08	<i>[Signature]</i>
PRINCIPAL ENGINEER			
STREET SERVICES			
SURVEYOR			
TRAFFIC DIVISION			
PARKS DEPARTMENT			
DESIGNED BY	LD	DRAWN BY	SS
CHECKED BY	LD	DATE	5/10/08

CITY OF RIVERSIDE
HUGHES ALLEY
STREET IMPROVEMENT PROJECT
LANDSCAPE PLANS
IRRIGATION NOTES

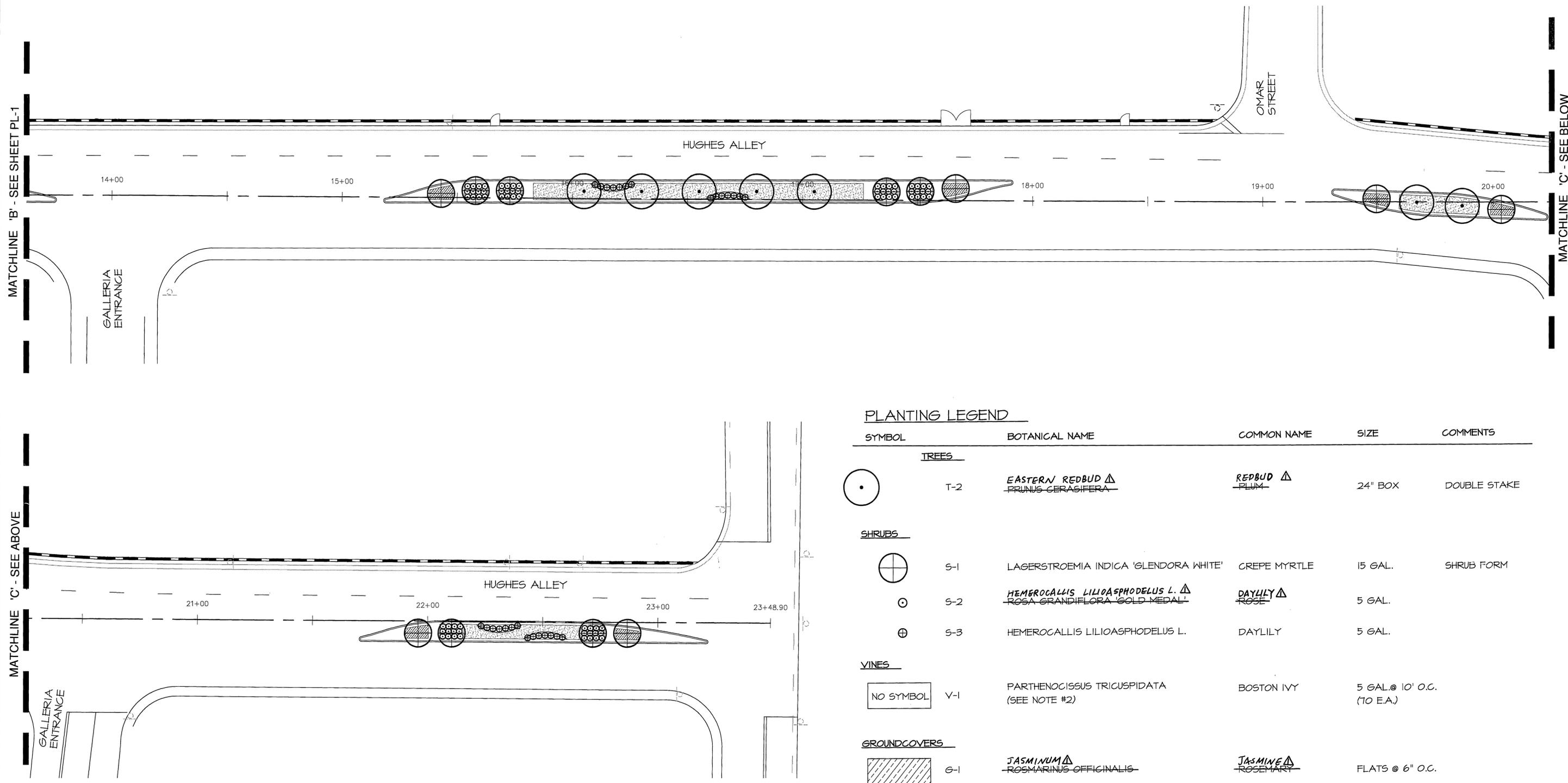
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IR-5
SHEET 8 OF 11

R-4090

MATCHLINE 'B' - SEE SHEET PL-1

MATCHLINE 'C' - SEE ABOVE

MATCHLINE 'C' - SEE BELOW



PLANTING LEGEND

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COMMENTS
TREES				
	T-2 EASTERN REDBUD PRUNUS CERASIFERA	REDBUD PLUM	24" BOX	DOUBLE STAKE
SHRUBS				
	S-1 LAGERSTROEMIA INDICA 'GLENLORA WHITE'	CREPE MYRTLE	15 GAL.	SHRUB FORM
	S-2 HEMEROCALLIS LILIOASPHODELUS L. ROSA GRANDIFLORA 'GOLD MEDAL'	DAYLILY ROSE	5 GAL.	
	S-3 HEMEROCALLIS LILIOASPHODELUS L.	DAYLILY	5 GAL.	
VINES				
	V-1 PARTHENOISSUS TRICUSPIDATA (SEE NOTE #2)	BOSTON IVY	5 GAL. @ 10' O.C. (10 E.A.)	
GROUNDCOVERS				
	G-1 JASMINUM ROSMARINUS OFFICINALIS	JASMINE ROSEMARY	FLATS @ 6" O.C.	
	G-2 SOD - WEST COASTER	N.C.N.		

NOTE:

1. EXTEND GROUNDCOVER UNDER SHRUBS
2. CONTRACTOR SHALL ADD VINES TO BARE SPOTS ALONG WALL FROM STA 5+00 - STA 23+23.30. SPECIES & SPACING PER PLANTING LEGEND. CONTRACTOR SHALL ALSO REMOVE & REPLACE ANY DEAD VINES AS NECESSARY.

DWG: P:\2008\114-07 - Hughes Alley\Drawings\114-07-01-01.dwg
DATE: 6-09-08
USER: Ian Davidson
PROJECT: Hughes Alley
SCALE: 1"=10'
C:\Users\ian\Documents\114-07-01-01.dwg

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SCALE 1"=10'

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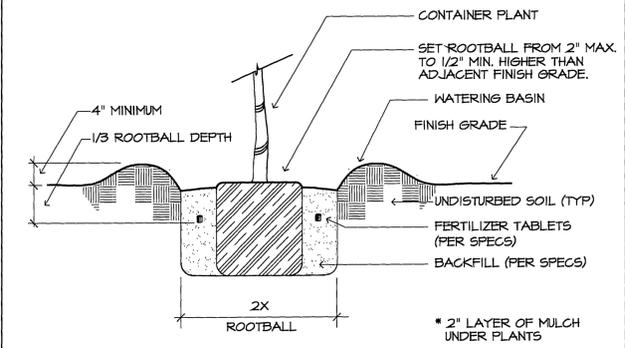
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PUBLIC WORKS DEPARTMENT

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CONST. CONTRACT ADMIN.	SS	5/1/08	SS
PRINCIPAL ENGINEER	SS	5/1/08	SS
STREET SERVICES	SS	5/1/08	SS
SURVEYOR	SS	5/1/08	SS
TRAFFIC DIVISION	SS	5/1/08	SS
PARKS DEPARTMENT	SS	5/1/08	SS

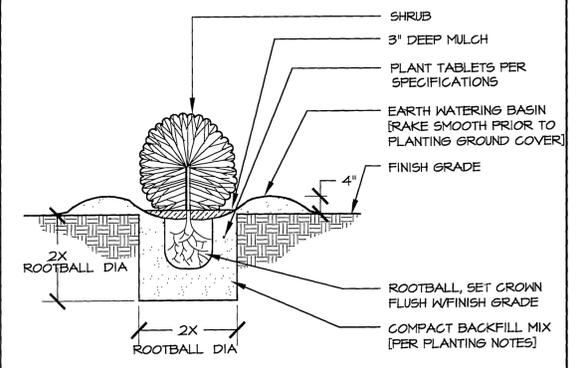
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CITY OF RIVERSIDE
HUGHES ALLEY
STREET IMPROVEMENT PROJECT
LANDSCAPE PLANS
PLANTING PLAN

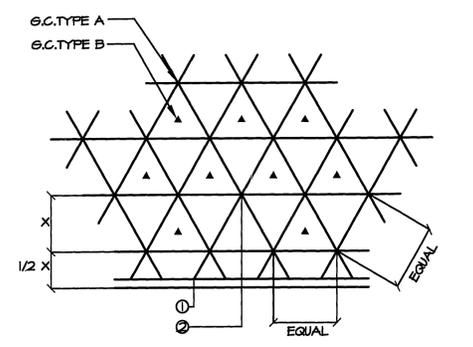
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ACCT. NO. XXXXXXXXXX-XXXXXXXX
PL-2
SHEET 10 OF 11
INDEXED 6-09-08 LHM



4 PLANTING DETAIL



SHRUB PLANTING

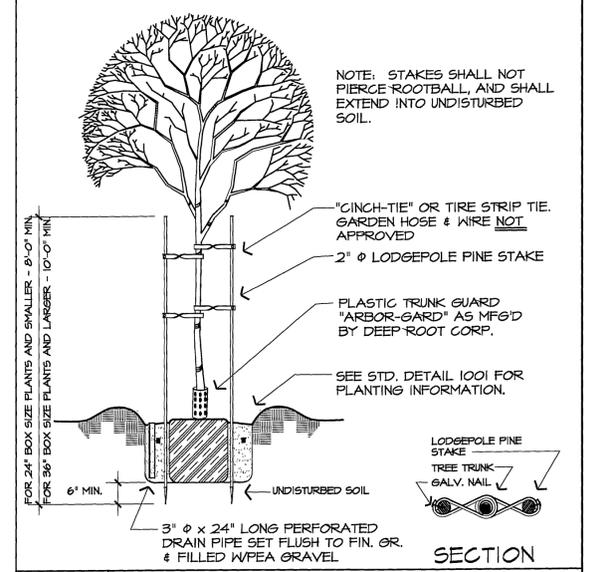


LEGEND
 1. BACK OF CURB OR EDGE OF PAVING
 2. PLANT LOCATION

NOTE: ALL SHRUBS/GROUND COVER TO BE PLANTED AT EQUAL SPACING (TRIANGULAR) UNLESS OTHERWISE INDICATED ON PLANS; SEE LEGEND FOR SPACING REQUIREMENTS.

* 2" LAYER OF MULCH UNDER GROUND COVER

2 PLANT SPACING



3 DOUBLE STAKE DETAIL

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APPROVED BY	BY	DATE	APPROVED BY
CONST. CONTRACT ADMIN.	ME	5/17/08	ME
PRINCIPAL ENGINEER	ME	5/17/08	ME
STREET SERVICES	ME	5/17/08	ME
SURVEYOR	ME	5/17/08	ME
TRAFFIC DIVISION	ME	5/17/08	ME
PARKS DEPARTMENT	ME	5/17/08	ME
DESIGNED BY	LIJ	DRAWN BY	SS
CHECKED BY	LIJ	DATE	5/17/08

CITY OF RIVERSIDE
 HUGHES ALLEY
 STREET IMPROVEMENT PROJECT
 LANDSCAPE PLANS
 PLANTING DETAILS

ACCT. NO. XXXXXXXXXXX-XXXXXXX
PL-3
 SHEET 11 OF 11
 INDEXED 6-09-08 LK